

FOR INDEX OF SHEETS, SEE SHEET NO. 2

FOR SUMMARY OF QUANTITIES, SEE SHEETS 4-11

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	(41-1)BR-1	JEFFERSON	92	1
ILLINOIS CONTRACT NO. 78455				

**TRAFFIC DATA**

SN 041-0055  
CH 42 (FAS 824)

FUNCTIONAL CLASSIFICATION: MAJOR COLLECTOR  
ADT: 4295 (2018)  
PV: 75.5%  
TRUCKS: 24.5%  
DESIGN SPEED: 30 MPH  
POSTED SPEED: 30 MPH

**I-57 (FAI 57)**

FUNCTIONAL CLASSIFICATION: INTERSTATE  
ADT: 35,644 (2018)  
PV: 70.4%  
TRUCKS: 29.6%  
DESIGN SPEED: 70 MPH  
POSTED SPEED: 70 MPH

**TOWNSHIP**

SPRING GARDEN

DESIGN DESIGNATION : 355(35) MAJOR COLLECTOR 6.20 (PCC-20)

COORDINATE SYSTEM : NAD 1983 STATE PLANE ILLINOIS  
EAST FIPS 1201 FEET (HORIZONTAL)  
NAVD88 (VERTICAL)

POSTED SPEED : 30 MPH



ESCA PROJECT NO. 1295.02

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

PROJECT ENGINEER: DAVID PICHE  
PROJECT DESIGNER: ESCA CONSULTANTS, INC.

CONTRACT NO. 78455



EXPIRES 11-30-19

*Eric L. Henkel*  
SIGNATURE

10-1-18  
DATE

**PROPOSED  
HIGHWAY PLANS**

FAI ROUTE 57 (I-57)  
SECTION (41-1)BR-1  
PROJECT NHPP-B3FU(291)  
BRIDGE REPLACEMENT  
FAS 824 (CH 42) OVER I-57  
JEFFERSON COUNTY

C-99-020-15  
R3E, 3RD PM

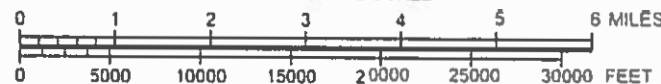


IMPROVEMENTS BEGIN  
STA 47+50

IMPROVEMENTS END  
STA 53+00

EXISTING STRUCTURE NO. 041-0055  
STATION 50+00.00 CH 42 (FAS 824)  
PROPOSED STRUCTURE SN 041-0113  
STATION 50+00.00 CH 42 (FAS 824)  
OVER I-57 (FAI 57)  
TWO-SPAN 48" WEB PLATE GIRDERS  
213'-8" BK TO BK ABUTMENTS  
4° 30' 00" RIGHT AHEAD SKEW

LOCATION MAP  
APPROXIMATE SCALE



GROSS LENGTH = 550.00 FT. = 0.104 MILE  
NET LENGTH = 550.00 FT. = 0.104 MILE

D-99-015-15



LOCATION OF SECTION INDICATED TH US -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

SUBMITTED Oct 10 20 18  
Jeffrey L. Keim  
REGION FIVE ENGINEER

Dec 7 20 18  
Scott A. Etkin  
ENGINEER OF DESIGN AND ENVIRONMENT

Dec 7 20 18  
Paul P. Chaffin  
DIRECTOR OF HIGHWAYS PROJECT IMPLEMENTATION

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OF THE STATE OF ILLINOIS

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**LIST OF ILLINOIS DOT HIGHWAY STANDARDS**

STANDARD NO.	DESCRIPTION
000001-07	STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS
001001-02	AREAS OF REINFORCEMENT BARS
001006	DECIMAL OF AN INCH AND OF A FOOT
280001-07	TEMPORARY EROSION CONTROL SYSTEMS
420001-09	PAVEMENT JOINTS
420101-06	24' (7.2M) JOINTED PCC PAVEMENT
420401-13	PAVEMENT CONNECTOR (PCC) FOR BRIDGE APPROACH SLAB
421001-03	BAR REINFORCEMENT FOR CRC PAVEMENT
515001-03	NAME PLATE FOR BRIDGES
542401-03	METAL FLARED END SECTION FOR PIPE CULVERTS
542501-02	INLET BOX TYPE 24 (600) A
542526-03	INLET BOX TYPE 24 (600) F
601101-02	CONCRETE HEADWALL FOR PIPE UNDERDRAINS
602402-01	PRECAST MANHOLE, TYPE A, 5' (1.52 m) DIAMETER
602701-02	MANHOLE STEPS
604001-04	FRAME AND LIDS, TYPE 1
610001-08	SHOULDER INLET WITH CURB
630001-12	STEEL PLATE BEAM GUARDRAIL
630201-07	PCC / HMA STABILIZATION AT STEEL PLATE BEAM GUARDRAIL
630301-09	SHOULDER WIDENING FOR TYPE 1 (SPECIAL) GUARDRAIL TERMINALS
631031-15	TRAFFIC BARRIER TERMINAL, TYPE 6
631051-03	TRAFFIC BARRIER TERMINAL TYPE 11
635001-02	DELINEATORS
643001-02	SAND MODULE IMPACT ATTENUATORS
701001-02	OFF-RD OPERATIONS, 2L, 2W, MORE THAN 15' (4.5 m) AWAY
701006-05	OFF-RD OPERATIONS, 2L, 2W, 15' (4.5 m) TO 24" (600 mm) FROM PAVEMENT EDGE
701011-04	OFF-RD MOVING OPERATIONS, 2L, 2W, DAY ONLY
701101-05	OFF-RD OPERATIONS, MULTILANE, 15' (4.5 m) TO 24" (600 mm) FROM PAVEMENT EDGE
701106-02	OFF-RD OPERATIONS, MULTILANE, MORE THAN 15' (4.5 m) AWAY
701201-05	LANE CLOSURE, 2L, 2W, DAY ONLY, FOR SPEEDS ≥ 45 MPH
701301-04	LANE CLOSURE, 2L, 2W, SHORT TIME OPERATIONS
701311-03	LANE CLOSURE, 2L, 2W MOVING OPERATIONS - DAY ONLY
701321-17	LANE CLOSURE, 2L, 2W, BRIDGE REPAIR WITH BARRIER
701326-04	LANE CLOSURE, 2L, 2W, PAVEMENT WIDENING, FOR SPEEDS ≥ 45 MPH
701400-09	APPROACH TO LANE CLOSURE, FREEWAY/EXPRESSWAY
701401-12	LANE CLOSURE, FREEWAY/EXPRESSWAY
701411-09	LANE CLOSURE, MULTILANE, AT ENTRANCE OR EXIT RAMP, FOR SPEEDS ≥ 45 MPH
701426-09	LANE CLOSURE, MULTILANE, INTERMITTENT OR MOVING OPER., FOR SPEEDS ≥ 45 MPH
701428-01	TRAFFIC CONTROL SETUP AND REMOVAL FREEWAY/EXPRESSWAY
701901-08	TRAFFIC CONTROL DEVICES
704001-08	TEMPORARY CONCRETE BARRIER
720001-01	SIGN PANEL MOUNTING DETAILS
720006-04	SIGN PANEL ERECTION DETAILS
720011-01	METAL POSTS FOR SIGNS, MARKERS, & DELINEATORS
725001-01	OBJECT AND TERMINAL MARKERS
780001-05	TYPICAL PAVEMENT MARKINGS
782006	GUARDRAIL AND BARRIER WALL REFLECTOR MOUNTING DETAILS

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

PREPARED BY: \_\_\_\_\_  
DISTRICT STUDIES & PLANS ENGINEER

EXAMINED BY: Nancy Tee  
DISTRICT LAND ACQUISITION ENGINEER

EXAMINED BY: Cassie Nelson  
DISTRICT PROGRAM DEVELOPMENT ENGINEER

EXAMINED BY: Keel Niles  
DISTRICT OPERATIONS ENGINEER

EXAMINED BY: [Signature]  
DISTRICT PROJECT IMPLEMENTATION ENGINEER

EXAMINED BY: Douglas J. [Signature]  
DISTRICT CONSTRUCTION ENGINEER

EXAMINED BY: [Signature]  
DISTRICT MATERIALS ENGINEER

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 PLOT: 11/11/18 10:00 AM  
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STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

INDEX OF SHEETS AND HIGHWAY STANDARDS

SCALE: NA SHEET NO. 1 OF 1 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	(41-1)BR-1	JEFFERSON	92	2
FED. ROAD DIST. NO. (ILLINOIS) FED. AID PROJECT			CONTRACT NO. 78455	

**GENERAL NOTES**

- FACTORS USED FOR ESTIMATING PLAN QUANTITIES ARE AS FOLLOWS AND SHALL NOT BE USED FOR THE BASIS OF FINAL QUANTITIES:
 

ALL HOT-MIX ASPHALT	2.016 TONS/CU YD
ALL AGGREGATE	2.05 TONS/CU YD
EARTH	110 LBS/CU FT
BITUMINOUS MATERIALS:	
ON PAVEMENT	0.05 POUND/SQ FT
INTERMEDIATE LIFTS	0.025 POUND/SQ FT
ON AGGREGATE SURFACE	0.25 POUND/SQ FT
- IF SO DIRECTED BY THE ENGINEER, DITCHES ADJACENT TO EMBANKMENTS SHALL BE CONSTRUCTED PRIOR TO STARTING THE CONSTRUCTION OF THE EMBANKMENT FILL.
- THE QUANTITY OF SHORT TERM PAVEMENT MARKING SHOWN IN THE PLANS IS BASED ON ONE APPLICATION.
- IF THE CONTRACTOR ELECTS TO USE P.C.C. BASE COURSE WIDENING, SUCH WIDENING SHALL HAVE TACK COAT APPLIED ACCORDING TO SECTION 406, EXCEPT THIS WORK WILL NOT BE PAID FOR SEPARATELY BUT SHALL BE INCLUDED IN THE COST OF THE WIDENING.
- AT ALL LOCATIONS WHERE THE PROPOSED HOT MIX ASPHALT OR CONCRETE PAVEMENT JOINS AN EXISTING HOT MIX ASPHALT OR CONCRETE PAVEMENT, A FULL DEPTH SAWED JOINT SHALL BE CONSTRUCTED. THE COST OF THIS JOINT WILL BE INCLUDED IN THE COST OF THE TYPE OF PAVEMENT BEING CONSTRUCTED.
- EXISTING PIPE UNDERDRAIN OUTLETS IN THE FORESLOPES OR MEDIAN SLOPES SHALL BE PRESERVED AND PROTECTED DURING CONSTRUCTION. ANY DAMAGE TO AN UNDERDRAIN OUTLET RESULTING FROM CONSTRUCTION ACTIVITY SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE.
- ALL CULVERT EXTENSIONS SHALL BE CONSTRUCTED IN ACCORDANCE WITH METHOD II AS SPECIFIED IN ARTICLE 542.05 OF THE STANDARD SPECIFICATIONS. PRIOR TO EXTENDING ANY CULVERT, THE ENTIRE LENGTH OF THE EXISTING CULVERT SHALL BE CLEANED OF ALL EARTH AND DEBRIS BY THE CONTRACTOR TO THE SATISFACTION OF THE ENGINEER. THE COST OF THIS WORK SHALL BE PAID ACCORDING TO ARTICLE 109.04.
- RECLAIMED ASPHALT PAVEMENT (RAP) WILL NOT BE ALLOWED FOR USE AS AGGREGATE IN AGGREGATE SHOULDERS, TYPE B.
- CONNECTING OF PIPE CULVERTS TO MANHOLES SHALL BE MADE IN A MANNER WHICH RESULTS IN A NEAT AND WATERTIGHT JOINT. WHEN PLACED THROUGH THE WALL OF A MANHOLE, CULVERT PIPE SHALL BE PLACED OR CUT FLUSH WITH THE FACE OF THE WALL AND DRESSED WITH MORTAR TO PROVIDE A SMOOTH ROUNDED OR BEVELED EDGE. THIS WORK WILL NOT BE PAID FOR SEPARATELY, BUT SHALL BE CONSIDERED AS INCLUDED IN THE CONTRACT UNIT PRICES OF THE CULVERTS OR STRUCTURES INVOLVED.

- AFTER A LIFT OF HOT MIX ASPHALT HAS BEEN PLACED, THE LANE SHALL REMAIN CLOSED TO TRAFFIC UNTIL THE NEW MAT HAS COOLED TO 150 DEGREES FAHRENHEIT
- THERE ARE NO AVAILABLE WASTE SITES ON THE EXISTING RIGHT OF WAY WITHIN THE PROJECT LIMITS. DISPOSAL WILL BE THE RESPONSIBILITY OF THE CONTRACTOR AND WASTE MUST BE DISPOSED OF IN ACCORDANCE WITH ARTICLE 202.03 OF THE STANDARD SPECIFICATIONS.
- 16'-9" MINIMUM CLEARANCE UNDERNEATH THE PROPOSED STRUCTURE SHALL BE VERIFIED BY THE ENGINEER AFTER BEAM ERECTION.
- EXISTING TRAFFIC BARRIER TERMINALS TO BE REMOVED SHALL BE PAID FOR AS GUARDRAIL REMOVAL.
- BEFORE ORDERING PIPE CULVERTS OR PIPE DRAINS, THE CONTRACTOR SHALL CONSULT THE ENGINEER FOR EXACT LENGTHS.
- THE EXISTING ROAD SIGNS THAT INTERFERE WITH CONSTRUCTION WILL BE REMOVED OR RELOCATED AS DIRECTED BY THE ENGINEER ACCORDING TO ARTICLE 107.25 OF THE STANDARD SPECIFICATIONS. AFTER THE CONSTRUCTION IS COMPLETED, THE CONTRACTOR WILL RE-ERECT THE SIGNS AS DIRECTED BY THE ENGINEER. THIS WORK WILL NOT BE PAID FOR SEPARATELY BUT SHALL BE CONSIDERED INCIDENTAL TO THE CONTRACT AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED.
- JOINTS IN PCC PAVEMENT SHALL BE CONSTRUCTED AS SHOWN ON HIGHWAY STANDARDS 420001 AND 420101. COST IS INCLUDED IN PORTLAND CEMENT CONCRETE PAVEMENT.

**COMMITMENTS**

- NONE AS OF 10/19/2018.

**HMA MIXTURES REQUIREMENTS**

MIXTURE USE	HOT-MIX ASPHALT SHOULDERS	BASE COURSE WIDENING
AC/PG	PG 64-22	PG 64-22
DESIGN AIR Voids	4.0% @ Ndes=70	4.0% @ Ndes=70
MIX COMPOSITION	IL-19.0	IL-19.0
FRICTION AGGREGATE	N/A	N/A
LOCATIONS	CH 42 SHOULDERS	CH 42 BASE COURSE
MIXTURE WEIGHT	112 LBS/SQ YD/IN	112 LBS/SQ YD/IN
ABR% (MAX)	SEE BDE SPECIAL PROVISION	SEE BDE SPECIAL PROVISION
QUALITY MANAGEMENT PROGRAM	QCQA	QCQA
SUBLOT SIZE	N/A	N/A

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PLOT DATE = 10/16/2018 7:03:33 AM	DATE - 10/18	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**GENERAL NOTES AND COMMITMENTS**

SCALE: NA SHEET NO. 1 OF 1 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	(41-1)BR-1	JEFFERSON	92	3
CONTRACT NO. 78455				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

SUMMARY OF QUANTITIES				CONSTRUCTION CODE	
				90% FEDERAL 10% STATE ROADWAY	90% FEDERAL 10% STATE STRUCTURE
CODE NO.	ITEM	UNIT	TOTAL QUANTITY	0010	0010
				ROADWAY	S. N. 041-0113
20200100	EARTH EXCAVATION	CU YD	170	170	
20400800	FURNISHED EXCAVATION	CU YD	465	465	
25000210	SEEDING, CLASS 2A	ACRE	0.5	0.5	
25000350	SEEDING, CLASS 7	ACRE	0.5	0.5	
25000400	NITROGEN FERTILIZER NUTRIENT	POUND	45	45	
25000500	PHOSPHORUS FERTILIZER NUTRIENT	POUND	45	45	
25000600	POTASSIUM FERTILIZER NUTRIENT	POUND	45	45	
25000700	AGRICULTURAL GROUND LIMESTONE	TON	1	1	
25100115	MULCH, METHOD 2	ACRE	0.75	0.75	
25100630	EROSION CONTROL BLANKET	SQ YD	924	924	
28000250	TEMPORARY EROSION CONTROL SEEDING	POUND	100	100	
28000305	TEMPORARY DITCH CHECKS	FOOT	25	25	
28000400	PERIMETER EROSION BARRIER	FOOT	948	948	
28000500	INLET AND PIPE PROTECTION	EACH	3	3	

⊗ SPECIALTY ITEM

REV. - MS

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ESCA PROJECT NO. 1295.02  
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PLOT DATE = 10/16/2018 8:23:06 AM

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DATE - 10/18

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STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES

SCALE: NONE SHEET NO. 1 OF 8 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	(41-1)BR-1	JEFFERSON	92	4
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT			CONTRACT NO. 78455	

SUMMARY OF QUANTITIES				CONSTRUCTION CODE	
				90% FEDERAL 10% STATE ROADWAY	90% FEDERAL 10% STATE STRUCTURE
CODE NO.	ITEM	UNIT	TOTAL QUANTITY	0010	0010
				ROADWAY	S. N. 041-0113
31100100	SUBBASE GRANULAR MATERIAL, TYPE A	TON	294	294	
35650500	BASE COURSE WIDENING 10"	SQ YD	450	450	
40600290	BITUMINOUS MATERIALS (TACK COAT)	POUND	1001	1001	
42000080	PAVEMENT CONNECTOR (PCC) FOR BRIDGE APPROACH SLAB	SQ YD	122	122	
42000501	PORTLAND CEMENT CONCRETE PAVEMENT 10" (JOINTED)	SQ YD	656	656	
42001300	PROTECTIVE COAT	SQ YD	781	781	
44000100	PAVEMENT REMOVAL	SQ YD	910	910	
44004250	PAVED SHOULDER REMOVAL	SQ YD	268	268	
48101200	AGGREGATE SHOULDERS, TYPE B	TON	17	17	
48203029	HOT-MIX ASPHALT SHOULDERS, 8"	SQ YD	446	446	
50100100	REMOVAL OF EXISTING STRUCTURES	EACH	1		1
50104400	CONCRETE HEADWALL REMOVAL	EACH	1	1	
50105220	PIPE CULVERT REMOVAL	FOOT	86	86	
50157300	PROTECTIVE SHIELD	SQ YD	300		300

⊗ SPECIALTY ITEM

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STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES

SCALE: NONE SHEET NO. 2 OF 8 SHEETS STA. TO STA.

F.A. I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	(41-1)BR-1	JEFFERSON	92	5
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT			CONTRACT NO. 78455	

REV. - MS

SUMMARY OF QUANTITIES				CONSTRUCTION CODE	
				90% FEDERAL 10% STATE ROADWAY	90% FEDERAL 10% STATE STRUCTURE
CODE NO.	ITEM	UNIT	TOTAL QUANTITY	0010	0010
				ROADWAY	S. N. 041-0113
50200100	STRUCTURE EXCAVATION	CU YD	240		240
50300225	CONCRETE STRUCTURES	CU YD	133.2		133.2
50300255	CONCRETE SUPERSTRUCTURE	CU YD	279.8		279.8
50300260	BRIDGE DECK GROOVING	SQ YD	909		909
50300300	PROTECTIVE COAT	SQ YD	1301		1301
50301350	CONCRETE SUPERSTRUCTURE ( APPROACH SLAB)	CU YD	96.5		96.5
50500105	FURNISHING AND ERECTING STRUCTURAL STEEL	L SUM	1		1
50500505	STUD SHEAR CONNECTORS	EACH	4194		4194
50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	122340		122340
50800515	BAR SPLICERS	EACH	991		991
50901125	STEEL RAILING ( TEMPORARY)	FOOT	550		550
51100100	SLOPE WALL 4 INCH	SQ YD	365		365
51201900	FURNISHING STEEL PILES HP14X89	FOOT	1103		1103
51202305	DRIVING PILES	FOOT	1103		1103

⊗ SPECIALTY ITEM

REV. - MS

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STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES

SCALE: NONE SHEET NO. 3 OF 8 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	(41-1)BR-1	JEFFERSON	92	6
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT			CONTRACT NO. 78455	

SUMMARY OF QUANTITIES				CONSTRUCTION CODE	
				90% FEDERAL 10% STATE ROADWAY	90% FEDERAL 10% STATE STRUCTURE
CODE NO.	ITEM	UNIT	TOTAL QUANTITY	0010	0010
				ROADWAY	S. N. 041-0113
51203900	TEST PILE STEEL HP14X89	EACH	1		1
51500100	NAME PLATES	EACH	1		1
52100520	ANCHOR BOLTS, 1"	EACH	24		24
52100530	ANCHOR BOLTS, 1 1/4"	EACH	12		12
52200010	TEMPORARY SHEET PILING	SQ FT	540		540
542A0229	PIPE CULVERTS, CLASS A, TYPE 1 24"	FOOT	71	71	
54244805	INLET BOX, STANDARD 542501	EACH	1	1	
54246205	INLET BOX, STANDARD 542526	EACH	1	1	
54248510	CONCRETE COLLAR	CU YD	0.9	0.9	
54262712	METAL FLARED END SECTIONS 12"	EACH	4	4	
58600101	GRANULAR BACKFILL FOR STRUCTURES	CU YD	170		170
59100100	GEOCOMPOSITE WALL DRAIN	SQ YD	80		80
60100060	CONCRETE HEADWALLS FOR PIPE DRAINS	EACH	4	4	
60100945	PIPE DRAINS 12"	FOOT	260	260	
60221000	MANHOLES, TYPE A, 5'-DIAMETER, TYPE 1 FRAME, OPEN LID	EACH	1	1	

⊗ SPECIALTY ITEM

REV. - MS

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STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES

SCALE: NONE SHEET NO. 4 OF 8 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	(41-1)BR-1	JEFFERSON	92	7
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT			CONTRACT NO. 78455	

SUMMARY OF QUANTITIES				CONSTRUCTION CODE	
				90% FEDERAL 10% STATE ROADWAY	90% FEDERAL 10% STATE STRUCTURE
CODE NO.	ITEM	UNIT	TOTAL QUANTITY	0010	0010
				ROADWAY	S. N. 041-0113
61000050	CONCRETE THRUST BLOCKS	EACH	4	4	
61000335	TYPE G INLET BOX, STANDARD 610001	EACH	4	4	
⊗ 63000001	STEEL PLATE BEAM GUARDRAIL, TYPE A, 6 FOOT POSTS	FOOT	500	500	
⊗ 63100085	TRAFFIC BARRIER TERMINAL, TYPE 6	EACH	4	4	
⊗ 63100167	TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT	EACH	1	1	
63200310	GUARDRAIL REMOVAL	FOOT	1350	1350	
63500105	DELINEATORS	EACH	2	2	
64300450	IMPACT ATTENUATORS (NON-REDIRECTIVE), TEST LEVEL 3	EACH	2	2	
64301090	ATTENUATOR BASE	SQ YD	55	55	
⊗ 66900200	NON-SPECIAL WASTE DISPOSAL	CU YD	250	250	
⊗ 66900530	SOIL DISPOSAL ANALYSIS	EACH	1	1	
⊗ 66901001	REGULATED SUBSTANCES PRE-CONSTRUCTION PLAN	L SUM	1	1	
⊗ 66901002	ON-SITE MONITORING OF REGULATED SUBSTANCES	CAL DA	4	4	
⊗ 66901003	REGULATED SUBSTANCES FINAL CONSTRUCTION REPORT	L SUM	1	1	

⊗ SPECIALTY ITEM

REV. - MS

MODEL PLOTS  
FILE NAME: Y:\01011295-02\_78455\CADD\Highway\CADD\_Sheets\0978455.sht\_ssq01.dgn



USER NAME = kjk  
ESCA PROJECT NO. 1295.02  
PLOT SCALE = 0.1667' / 1" = 1/6"  
PLOT DATE = 10/16/2018 8:23:07 AM

DESIGNED - KJK  
DRAWN - KJK  
CHECKED - ELH  
DATE - 10/18

REVISED -  
REVISED -  
REVISED -  
REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES

SCALE: NONE SHEET NO. 5 OF 8 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	(41-1)BR-1	JEFFERSON	92	8
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT			CONTRACT NO. 78455	



SUMMARY OF QUANTITIES				CONSTRUCTION CODE	
				90% FEDERAL 10% STATE ROADWAY	90% FEDERAL 10% STATE STRUCTURE
CODE NO.	ITEM	UNIT	TOTAL QUANTITY	0010	0010
				ROADWAY	S. N. 041-0113
67000400	ENGINEER'S FIELD OFFICE, TYPE A	CAL MO	14	14	
67100100	MOBILIZATION	L SUM	1	1	
70103815	TRAFFIC CONTROL SURVEILLANCE	CAL DA	15	15	
70106500	TEMPORARY BRIDGE TRAFFIC SIGNALS	EACH	1	1	
70107025	CHANGEABLE MESSAGE SIGN	CAL DA	476	476	
70200100	NIGHTTIME WORK ZONE LIGHTING	L SUM	1	1	
70300100	SHORT TERM PAVEMENT MARKING	FOOT	304	304	
70300150	SHORT TERM PAVEMENT MARKING REMOVAL	SQ FT	102	102	
70300210	TEMPORARY PAVEMENT MARKING LETTERS AND SYMBOLS	SQ FT	84	84	
70300220	TEMPORARY PAVEMENT MARKING - LINE 4"	FOOT	4052	4052	
70300250	TEMPORARY PAVEMENT MARKING - LINE 8"	FOOT	150	150	
70300260	TEMPORARY PAVEMENT MARKING - LINE 12"	FOOT	47	47	
70300280	TEMPORARY PAVEMENT MARKING - LINE 24"	FOOT	120	120	
70400100	TEMPORARY CONCRETE BARRIER	FOOT	2450	2450	
70400200	RELOCATE TEMPORARY CONCRETE BARRIER	FOOT	150	150	

⊗ SPECIALTY ITEM

REV. - MS

MODEL: PLOT06  
FILE NAME: Y:\01011295-02\_78455\CADD\Highway\CADD\_Sheets\0978455.sht\_ssq01.dgn



USER NAME = kjk  
ESCA PROJECT NO. 1295.02  
PLOT SCALE = 0.1667' / 1" = 1/6"  
PLOT DATE = 10/16/2018 8:23:07 AM

DESIGNED - KJK  
DRAWN - KJK  
CHECKED - ELH  
DATE - 10/18

REVISED -  
REVISED -  
REVISED -  
REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES

SCALE: NONE SHEET NO. 6 OF 8 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	(41-1)BR-1	JEFFERSON	92	9
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT			CONTRACT NO. 78455	

SUMMARY OF QUANTITIES				CONSTRUCTION CODE	
				90% FEDERAL 10% STATE ROADWAY	90% FEDERAL 10% STATE STRUCTURE
CODE NO.	ITEM	UNIT	TOTAL QUANTITY	0010	0010
				ROADWAY	S. N. 041-0113
70500690	TEMPORARY TRAFFIC BARRIER TERMINAL, TYPE 11	EACH	2	2	
70600240	IMPACT ATTENUATORS, TEMPORARY (NON- REDIRECTIVE), TEST LEVEL 2	EACH	2	2	
70600260	IMPACT ATTENUATORS, TEMPORARY (FULLY REDIRECTIVE, NARROW), TEST LEVEL 3	EACH	4	4	
70600340	IMPACT ATTENUATORS, RELOCATE (NON- REDIRECTIVE), TEST LEVEL 2	EACH	2	2	
⊗ 72501000	TERMINAL MARKER - DIRECT APPLIED	EACH	1	1	
⊗ 78009000	MODIFIED URETHANE PAVEMENT MARKING - LETTERS AND SYMBOLS	SQ FT	84	84	
⊗ 78009004	MODIFIED URETHANE PAVEMENT MARKING - LINE 4"	FOOT	4052	4052	
⊗ 78009008	MODIFIED URETHANE PAVEMENT MARKING - LINE 8"	FOOT	150	150	
⊗ 78009012	MODIFIED URETHANE PAVEMENT MARKING - LINE 12"	FOOT	47	47	
⊗ 78009024	MODIFIED URETHANE PAVEMENT MARKING - LINE 24"	FOOT	120	120	
⊗ 78200005	GUARDRAIL REFLECTORS, TYPE A	EACH	10	10	
⊗ 78200010	BARRIER WALL REFLECTORS, TYPE B	EACH	202	202	
⊗ 86200300	UNINTERRUPTABLE POWER SUPPLY, EXTENDED	EACH	1	1	
X0327980	PAVEMENT MARKING REMOVAL - WATER BLASTING	SQ FT	1822	1822	

⊗ SPECIALTY ITEM

MODEL: PLOT07  
FILE NAME: Y:\J011295-02\_78455\CADD\Highway\CADD\_Sheets\0978455.sht\_ssq01.dgn



USER NAME = kjk  
ESCA PROJECT NO. 1295.02  
PLOT SCALE = 0.1667' / 1" = 1/60  
PLOT DATE = 10/16/2018 8:23:07 AM

DESIGNED - KJK  
DRAWN - KJK  
CHECKED - ELH  
DATE - 10/18

REVISED -  
REVISED -  
REVISED -  
REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES

SCALE: NONE SHEET NO. 7 OF 8 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	(41-1)BR-1	JEFFERSON	92	10
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT			CONTRACT NO. 78455	

REV. - MS

SUMMARY OF QUANTITIES				CONSTRUCTION CODE	
				90% FEDERAL 10% STATE ROADWAY	90% FEDERAL 10% STATE STRUCTURE
CODE NO.	ITEM	UNIT	TOTAL QUANTITY	0010	0010
				ROADWAY	S. N. 041-0113
*** X2503100	MOWING	UNIT	12	12	
X5010523	REMOVE CONCRETE END SECTION	EACH	2	2	
X6430120	REMOVE IMPACT ATTENUATORS, NO SALVAGE	EACH	2	2	
X6431110	REMOVE ATTENUATOR BASE	EACH	2	2	
X7010216	TRAFFIC CONTROL AND PROTECTION, (SPECIAL)	L SUM	1	1	
X7030005	TEMPORARY PAVEMENT MARKING REMOVAL	SQ FT	1822	1822	
X7040125	PINNING TEMPORARY CONCRETE BARRIER	EACH	18	18	
Z0046304	PIPE UNDERDRAINS FOR STRUCTURES 4"	FOOT	128		128
Z0073400	TEMPORARY SUPPORT SYSTEM	EACH	1		1
Ø Z0076600	TRAINEES	HOUR	1000	1000	
Ø Z0076604	TRAINEES TRAINING PROGRAM GRADUATE	HOUR	1000	1000	

Ø 0042    \* SPECIALTY ITEM    \*\*\* 100% STATE

REV. - MS

MODEL: PLOT08  
FILE NAME: Y:\01011295-02\_78455\CADD\Highway\CADD\_Sheets\0978455.sht.scp01.dgn



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ESCA PROJECT NO. 1295.02  
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DESIGNED - KJK  
DRAWN - KJK  
CHECKED - ELH  
DATE - 10/18

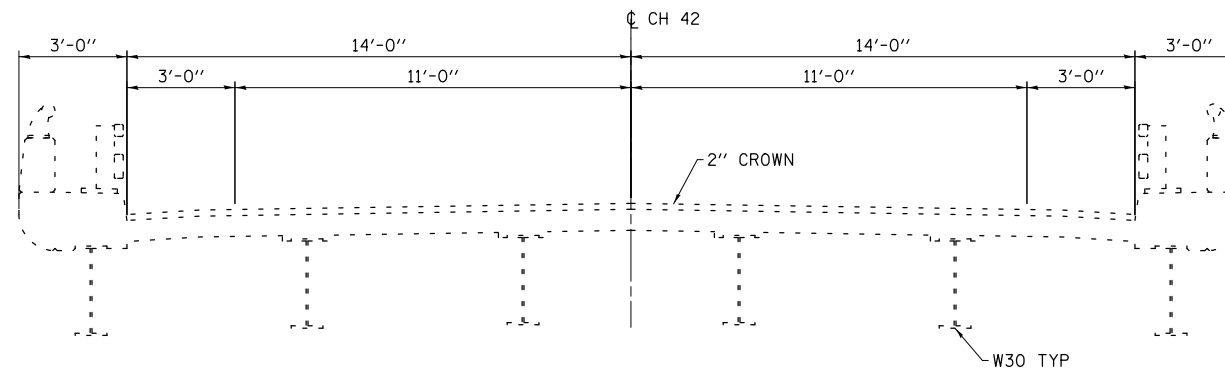
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REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

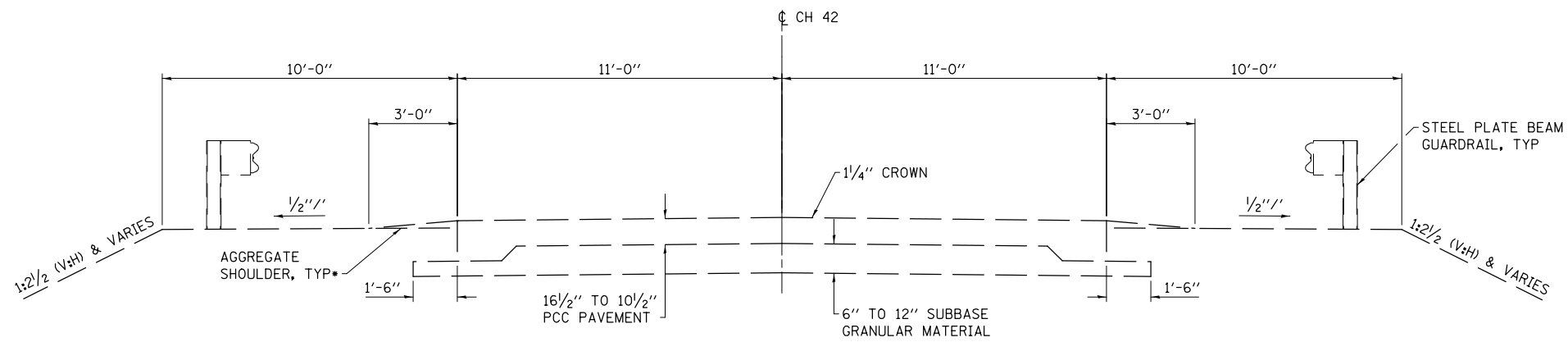
SUMMARY OF QUANTITIES

SCALE: NONE    SHEET NO. 8 OF 8 SHEETS    STA.    TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	(41-1)BR-1	JEFFERSON	92	11
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT			CONTRACT NO. 78455	

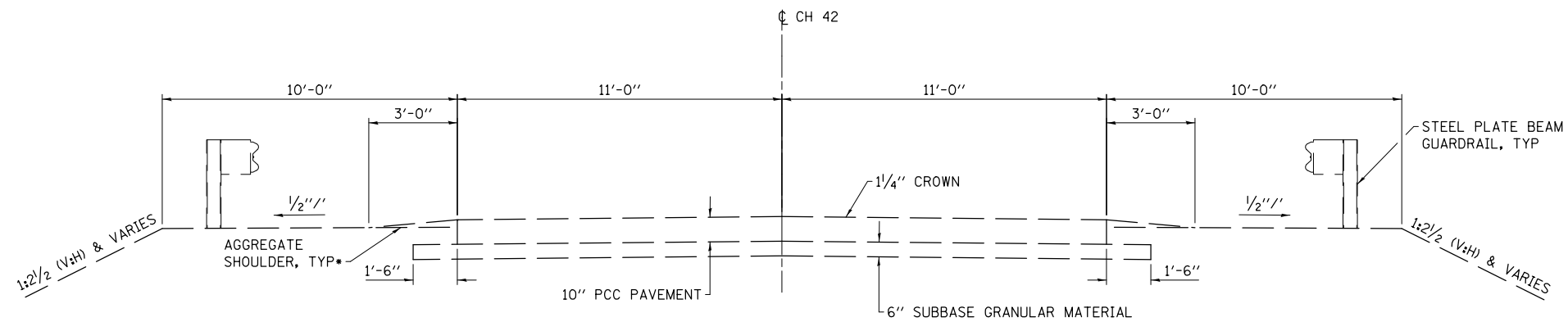


**EXISTING TYPICAL SECTION**  
**STA 48+88.17 TO STA 51+11.83**



**EXISTING TYPICAL SECTION**  
**STA 48+47.30 TO STA 48+88.17**  
**STA 51+11.83 TO STA 51+52.70**

\* 4' HMA SHOULDERS FROM LT STA 45+96 TO LT STA 48+87.30  
 & RT STA 45+78 TO RT STA 48+89.04  
 THICKNESS UNKNOWN



**EXISTING TYPICAL SECTION**  
**STA 46+04.27 TO STA 48+47.30**  
**STA 51+52.70 TO STA 53+95.73**

PRINT DRIVER = L:\E-Books\1295\1295.dwg  
 PLOT DATE = 10/3/2018 7:26:27 AM  
 PLOT SCALE = 0.1667 / 1" = 1'



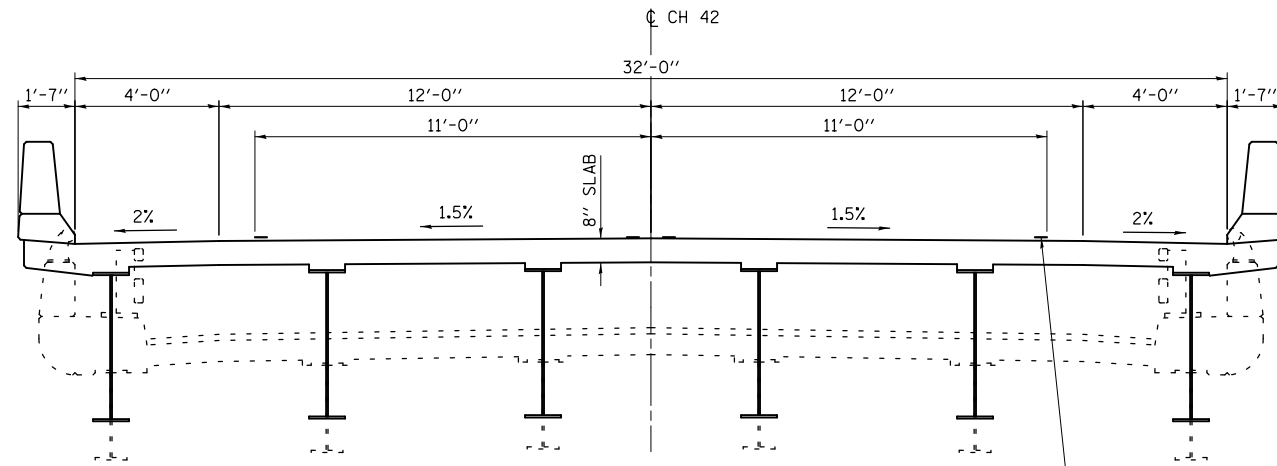
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PLOT DATE = 10/3/2018 7:26:27 AM	DATE - 06/18	REVISED -

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

**FAS 824 (CH 42) TYPICAL SECTIONS**

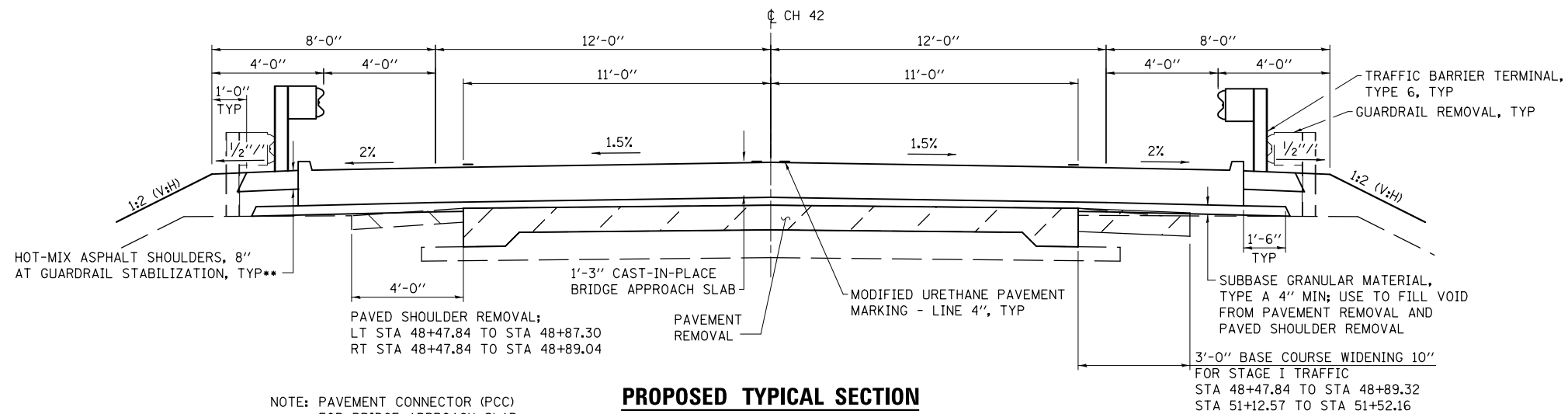
SCALE: NONE SHEET NO. 1 OF 2 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	(41-1)BR-1	JEFFERSON	92	12
CONTRACT NO. 78455				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				



**PROPOSED TYPICAL SECTION  
STA 48+94.17 TO STA 51+05.82**

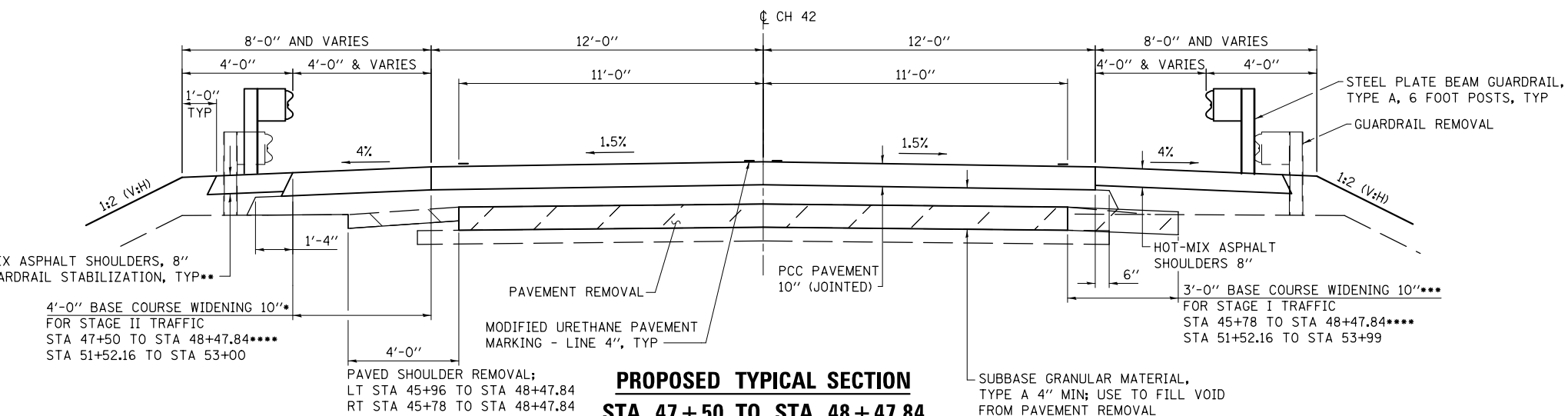
MODIFIED URETHANE PAVEMENT MARKING - LINE 4", TYP



**PROPOSED TYPICAL SECTION  
STA 48+64.17 TO STA 48+94.17  
STA 51+05.82 TO STA 51+35.82**

NOTE: PAVEMENT CONNECTOR (PCC)  
FOR BRIDGE APPROACH SLAB  
SEE STD. 420401  
STA 48+47.84 TO STA 48+64.17  
STA 51+35.82 TO STA 51+52.16

3'-0" BASE COURSE WIDENING 10"  
FOR STAGE I TRAFFIC  
STA 48+47.84 TO STA 48+89.32  
STA 51+12.57 TO STA 51+52.16



**PROPOSED TYPICAL SECTION  
STA 47+50 TO STA 48+47.84  
STA 51+52.16 TO STA 53+00**

PAVED SHOULDER REMOVAL;  
LT STA 45+96 TO STA 48+47.84  
RT STA 45+78 TO STA 48+47.84

SUBBASE GRANULAR MATERIAL,  
TYPE A 4" MIN; USE TO FILL VOID  
FROM PAVEMENT REMOVAL  
AND PAVED SHOULDER REMOVAL

• 5'-0" BASE COURSE WIDENING 10"  
TO BE USED STA 45+96 TO STA 47+50,  
& FROM STA 53+00 TO 53+98

•• LT STA 47+41 TO STA 48+77.9  
RT STA 47+43.5 TO STA 48+80.4  
LT STA 51+19.6 TO STA 53+06.5  
RT STA 51+22.1 TO STA 53+09

••• 3'-0" BASE COURSE WIDENING TO REMAIN  
RT STA 45+78 TO STA 47+50  
RT STA 53+00 TO STA 53+99

•••• MATCH EXISTING ROADWAY SLOPE  
FOR BASE COURSE WIDENING, 10"  
LT STA 45+96 TO LT STA 47+41  
RT STA 45+78 TO RT STA 47+43.5

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SCALE = 1/8" = 1'-0"  
SCALE NAME = 1/8" = 1'-0"  
FILE NAME = 10/3/2018 7:26:27 AM



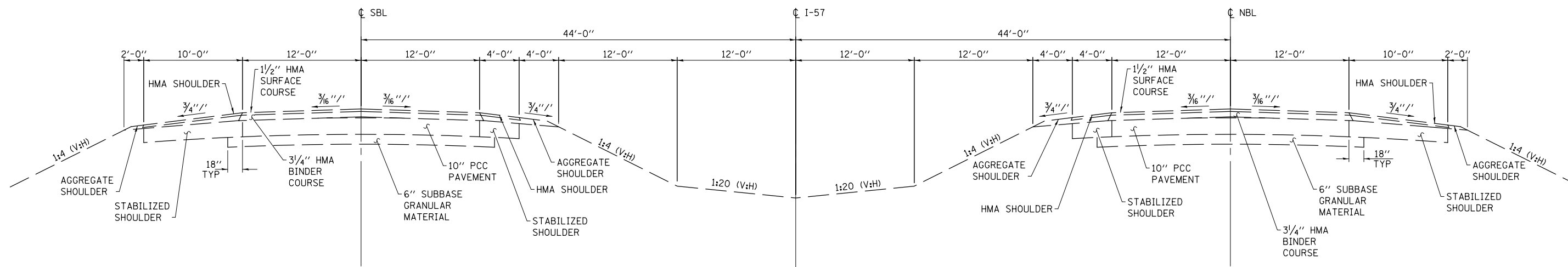
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ESCA PROJECT NO. 1295.02	DRAWN - KJA/KJK	REVISED -
PLOT SCALE = 0.1667' / 1"	CHECKED - ELH	REVISED -
PLOT DATE = 10/3/2018 7:26:27 AM	DATE - 09/18	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

FAS 824 (CH 42) TYPICAL SECTIONS

SCALE: NONE SHEET NO. 2 OF 2 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	(41-1)BR-1	JEFFERSON	92	13
CONTRACT NO. 78455				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				



**EXISTING I-57 TYPICAL SECTION**

NOTE: TANGENT SECTION SHOWN; FOR HORIZONTAL CURVE FROM STA 117+62.07 TO STA 145+03.15, PAVEMENT IS SUPERELEVATED AT 0.015 FT/FT.

PRINT DRIVER = L:\E-Projects\1295\1295.dwg  
 USER NAME = KJA  
 PLOT DATE = 10/3/2018 7:26:28 AM



USER NAME = kjk	DESIGNED - KJA	REVISED -
ESCA PROJECT NO. 1295.02	DRAWN - KJA	REVISED -
PLOT SCALE = 0.1667' / 1"	CHECKED - ELH	REVISED -
PLOT DATE = 10/3/2018 7:26:28 AM	DATE - 09/17	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**I-57 TYPICAL SECTION**

SCALE: NONE SHEET NO. 1 OF 1 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	(41-1)BR-1	JEFFERSON	92	14
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT			CONTRACT NO. 78455	

EARTHWORK SCHEDULE				
LOCATION	EARTH EXCAVATION	EXCAVATION TO BE USED IN EMBANKMENT	EMBANKMENT	FURNISHED EXCAVATION
	CU YD	CU YD	CU YD	CU YD
I-57 MEDIAN	6	4	351	347
CH 42 NW QUADRANT	33	24	64	40
CH 42 SW QUADRANT	25	19	42	23
CH 42 NE QUADRANT	55	41	76	35
CH 42 SE QUADRANT	51	37	57	20
TOTALS	170	125	590	465

EXCAVATION TO BE USED IN EMBANKMENT = EARTH EXCAVATION \* 0.75

BRIDGE APPROACH SCHEDULE			
LOCATION	PAVEMENT CONNECTOR (PCC) FOR BRIDGE APPROACH SLAB	SUBBASE GRANULAR MATERIAL, TYPE A ①	PROTECTIVE COAT
	SQ YD	TON	SQ YD
SN 041-0113 WEST APPROACH	61	22.5	62
SN 041-0113 EAST APPROACH	61	22.5	63
TOTALS	122	45	125

① COST OF 4" SUBBASE GRANULAR MATERIAL, TYPE A IS INCLUDED IN PAVEMENT CONNECTOR (PCC) FOR BRIDGE APPROACH SLAB PER HIGHWAY STANDARD 420401. QUANTITY SHOWN IS ADDITIONAL SUBBASE GRANULAR MATERIAL, TYPE A NECESSARY TO FILL VOID FROM PAVEMENT REMOVAL AND TO FACILITATE GRADE RAISE. SEE PAVEMENT TRANSITION SHEET FOR DETAILS.

STORM SEWER SCHEDULE												
LOCATION	METAL FLARED END SECTIONS 12"	PIPE CULVERTS, CLASS A, TYPE 1 24"	CONCRETE COLLAR	PIPE DRAINS 12"	MANHOLES, TYPE A, 5'-DIA, T1 FRAME, OPEN LID	CONCRETE THRUST BLOCKS	TYPE G INLET BOX STD 610001	INLET BOX STD 542501	INLET BOX STD 542526	REMOVE CONCRETE END SECTIONS	CONCRETE HEADWALL REMOVAL	PIPE CULVERT REMOVAL
	EACH	FOOT	CU YD	FOOT	EACH	EACH	EACH	EACH	EACH	EACH	EACH	FOOT
CH 42 STA 48+54.44	1			65		1	1					
CH 42 STA 48+55.07	1			65		1	1					
CH 42 STA 51+44.93	1			65		1	1					
CH 42 STA 51+45.58	1			65		1	1					
I-57 STA 116+00		21	0.9		1			1	1	2	1	
I-57 STA 115+47.5		50										
I-57 STA 166+22 TO STA 117+08												86
TOTALS	4	71	0.9	260	1	4	4	1	1	2	1	86

PAVEMENT REMOVAL SCHEDULE		
LOCATION	PAVED SHOULDER REMOVAL	PAVEMENT REMOVAL
	SQ YD	SQ YD
CH 42 LT STA 45+96 TO STA 48+87.30	130	
CH 42 RT STA 45+78 TO STA 48+89.04	138	
CH 42 STA 47+50 TO STA 48+89.04		340 ②
CH 42 STA 51+10.96 TO STA 53+00		460 ②
CH 42 STAGE I BASE COURSE WIDENING		110
TOTALS	268	910

② COST OF REMOVING 15 1/2" / 10 1/2" / 15 1/2" BRIDGE APPROACH SLABS INCLUDED IN PAVEMENT REMOVAL.

SHOULDER SCHEDULE			
LOCATION	BITUMINOUS MATERIALS (TACK COAT)	AGGREGATE SHOULDERS, TYPE B	HOT-MIX ASPHALT SHOULDERS, 8"
	POUND	TON	SQ YD
CH 42 LT STA 45+96 TO STA 47+41		5	
CH 42 RT STA 45+78 TO STA 47+43.5		3	
CH 42 LT STA 53+06.5 TO LT STA 53+98		5	
CH 42 RT STA 53+09 TO STA 53+99		4	
CH 42 LT STA 47+41 TO STA 48+77.9	147		66
CH 42 RT STA 47+43.5 TO STA 48+80.4	252		112
CH 42 LT STA 51+19.6 TO STA 53+06.5	225		100
CH 42 RT STA 51+22.1 TO STA 53+09	377		168
TOTALS	1001	17	446

PCC PAVEMENT SCHEDULE			
LOCATION	SUBBASE GRANULAR MATERIAL, TYPE A	PCC PAVEMENT, 10" (JOINTED)	PROTECTIVE COAT
	TON	SQ YD	SQ YD
CH 42 STA 47+50 TO STA 48+47.84	105	261	261
CH 42 STA 51+52.16 TO STA 53+00	144	395	395
TOTALS	249	656	656

SEEDING SCHEDULE							
LOCATION	SEEDING, CLASS 2A	SEEDING, CLASS 7	NITROGEN FERTILIZER NUTRIENT	PHOSPHORUS FERTILIZER NUTRIENT	POTASSIUM FERTILIZER NUTRIENT	AGRICULTURAL GROUND LIMESTONE	MULCH, METHOD 2
	ACRE	ACRE	POUND	POUND	POUND	TON	ACRE
I-57 MEDIAN	0.30	0.30	27	27	27	0.6	0.75
CH 42 NW QUADRANT	0.05	0.05	5	5	5	0.1	
CH 42 SW QUADRANT	0.05	0.05	4	4	4	0.1	
CH 42 NE QUADRANT	0.05	0.05	4	4	4	0.1	
CH 42 SE QUADRANT	0.05	0.05	5	5	5	0.1	
TOTALS	0.50	0.50	45	45	45	1.0	0.75

EROSION CONTROL SCHEDULE					
LOCATION	EROSION CONTROL BLANKET	TEMPORARY EROSION CONTROL SEEDING	PERIMETER EROSION BARRIER	TEMPORARY DITCH CHECKS	INLET AND PIPE PROTECTION
	SQ YD	POUND	FOOT	FOOT	EACH
I-57 MEDIAN		60		25	3
CH 42 NW QUADRANT	250	10	212		
CH 42 SW QUADRANT	146	10	206		
CH 42 NE QUADRANT	278	10	265		
CH 42 SE QUADRANT	250	10	265		
TOTALS	924	100	948	25	3

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

SCHEDULES OF QUANTITIES



USER NAME = kjk	DESIGNED - KJK	REVISED -
ESCA PROJECT NO. 1295.02	DRAWN - KJK	REVISED -
PLOT SCALE = 0.1667' / 1"	CHECKED - ELH	REVISED -
PLOT DATE = 10/3/2018 7:26:28 AM	DATE - 10/18	REVISED -

SCALE: NA SHEET NO. 1 OF 2 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	(41-1)BR-1	JEFFERSON	92	15
CONTRACT NO. 78455				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

PRINT DRIVER = L:\ESCA\1295\1295.dwg  
 PLOT DATE = 10/3/2018 7:26:28 AM  
 PLOT SCALE = 0.1667' / 1"

GUARDRAIL SCHEDULE						
LOCATION	GUARDRAIL REMOVAL	TBT, TYPE 6	SPBGR, TYPE A, 6 FOOT POSTS	TERMINAL MARKER - DIRECT APPLIED	GUARDRAIL REFLECTORS, TYPE A	TBT, TYPE 1 (SPL) TANGENT
	FOOT	EACH	FOOT	EACH	EACH	EACH
SN 041-0113 NORTHWEST CORNER	147	1	100		2	
SN 041-0113 SOUTHWEST CORNER	197	1	100	1	3	1
SN 041-0113 NORTHEAST CORNER	196	1	150		3	
SN 041-0113 SOUTHEAST CORNER	197	1	150		2	
I-57 NBL	319					
I-57 SBL	294					
TOTALS	1350	4	500	1	10	1

IMPACT ATTENUATOR SCHEDULE				
LOCATION	IMPACT ATTENUATORS (NON-REDIRECTIVE), TEST LEVEL 3	ATTENUATOR BASE	REMOVE IMPACT ATTENUATORS, NO SALVAGE	REMOVE ATTENUATOR BASE
	EACH	SQ YD	EACH	EACH
I-57 MEDIAN NORTH OF PIER	1	27	1	1
I-57 MEDIAN SOUTH OF PIER	1	28	1	1
TOTAL	2	55	2	2

TEMPORARY CONCRETE BARRIER SCHEDULE								
LOCATION	TEMPORARY CONCRETE BARRIER	RELOCATE TEMPORARY CONCRETE BARRIER	PINNING TEMPORARY CONCRETE BARRIER	BARRIER WALL REFLECTORS, TYPE B	TEMPORARY TBT, TYPE 11	IMPACT ATTENUATORS, TEMP (NRD) TEST LEVEL 2	IMPACT ATTENUATORS, RELOCATE (NRD) TEST LEVEL 2	IMPACT ATTENUATORS, TEMP (FRD) NAR TEST LEVEL 3
	FOOT	FOOT	EACH	EACH	EACH	EACH	EACH	EACH
CH 42 STAGE I TRAFFIC CONTROL	150		12	12	2	2		
CH 42 STAGE II TRAFFIC CONTROL	550	150	6	44			2	
I-57 NBL TRAFFIC CONTROL	875			70				2
I-57 SBL TRAFFIC CONTROL	875			70				2
BRIDGE PARAPETS				6				
TOTALS	2450	150	18	202	2	2	2	4

BASE COURSE WIDENING SCHEDULE	
LOCATION	BASE COURSE WIDENING 10"
	SQ YD
CH 42 LT STA 45+96 TO STA 48+47.84	129
CH 42 RT STA 45+78 TO STA 48+89.3	104
CH 42 LT STA 51+52.16 TO STA 53+98	121
CH 42 RT STA 51+12.6 TO STA 53+99	96
TOTAL	450

TEMPORARY PAVEMENT MARKING SCHEDULE						
LOCATION	TEMPORARY PAVEMENT MARKING - LETTERS & SYMBOLS	TEMPORARY PAVEMENT MARKING - LINE 4"	TEMPORARY PAVEMENT MARKING - LINE 8"	TEMPORARY PAVEMENT MARKING - LINE 12"	TEMPORARY PAVEMENT MARKING - LINE 24"	TEMPORARY PAVEMENT MARKING REMOVAL
	SQ FT	FOOT	FOOT	FOOT	FOOT	SQ FT
	WHITE	WHITE	YELLOW	WHITE	WHITE	WHITE
CH 42			2234			745
STA 44+38 TO STA 55+55						
LT STA 45+90 TO STA 54+52		862				287
RT STA 45+52 TO STA 54+09		857				286
I-57 RAMPS						
NBL EXIT RAMP	42		47	72	24	55
SBL EXIT RAMP	42		52	78	23	65
SUBTOTALS		1719	2333			
TOTALS	84		4052	150	47	120

PAVEMENT MARKING SCHEDULE									
LOCATION	SHORT TERM PAVEMENT MARKING		SHORT TERM PAVEMENT MARKING REMOVAL	MODIFIED URETHANE PAVEMENT MARKING - LETTERS & SYMBOLS	MODIFIED URETHANE PAVEMENT MARKING - LINE 4"	MODIFIED URETHANE PAVEMENT MARKING - LINE 8"	MODIFIED URETHANE PAVEMENT MARKING - LINE 12"	MODIFIED URETHANE PAVEMENT MARKING - LINE 24"	PAVEMENT MARKING REMOVAL - WATER BLASTING
	FOOT	FOOT	SQ FT	SQ FT	FOOT	FOOT	FOOT	FOOT	SQ FT
	WHITE	YELLOW		WHITE	WHITE	YELLOW	WHITE	WHITE	
CH 42				2234					745
STA 44+38 TO STA 55+55		224	75			2234			
LT STA 45+90 TO STA 54+52	36		12			862			287
RT STA 45+52 TO STA 54+09	36		12			857			286
I-57 RAMPS									
NBL EXIT RAMP		4	2	42		47	72	24	55
SBL EXIT RAMP		4	1	42		52	78	23	65
SUBTOTALS	72	232				1719	2333		
TOTALS	304		102	84		4052	150	47	120

PRINT DRIVER = L:\ESCA\Projects\1295\1295.dwg  
 USER NAME = KJK  
 PLOT DATE = 10/3/2018 7:26:29 AM



USER NAME = kjk  
 ESCA PROJECT NO. 1295.02  
 PLOT SCALE = 0.1667' / 1"

DESIGNED - KJK  
 DRAWN - KJK  
 CHECKED - ELH  
 DATE - 10/18

REVISED -  
 REVISED -  
 REVISED -  
 REVISED -

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

SCHEDULES OF QUANTITIES

SCALE: NA SHEET NO. 2 OF 2 SHEETS STA. TO STA.

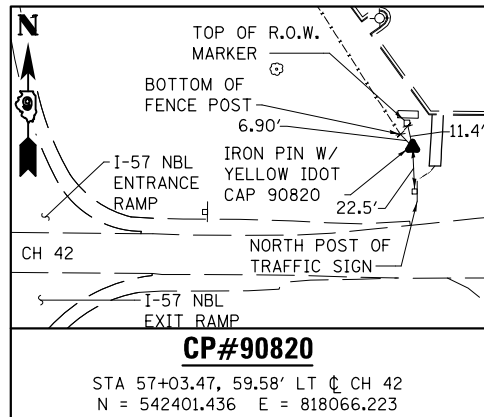
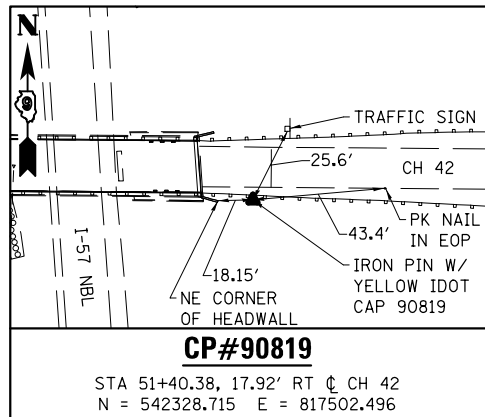
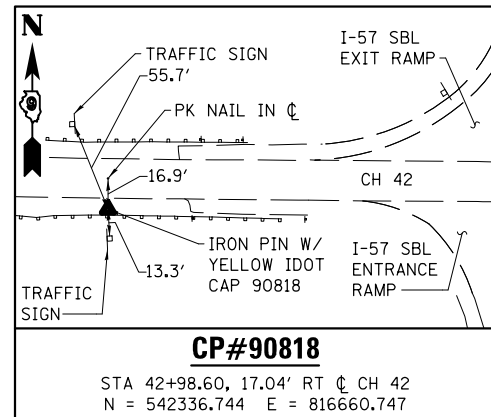
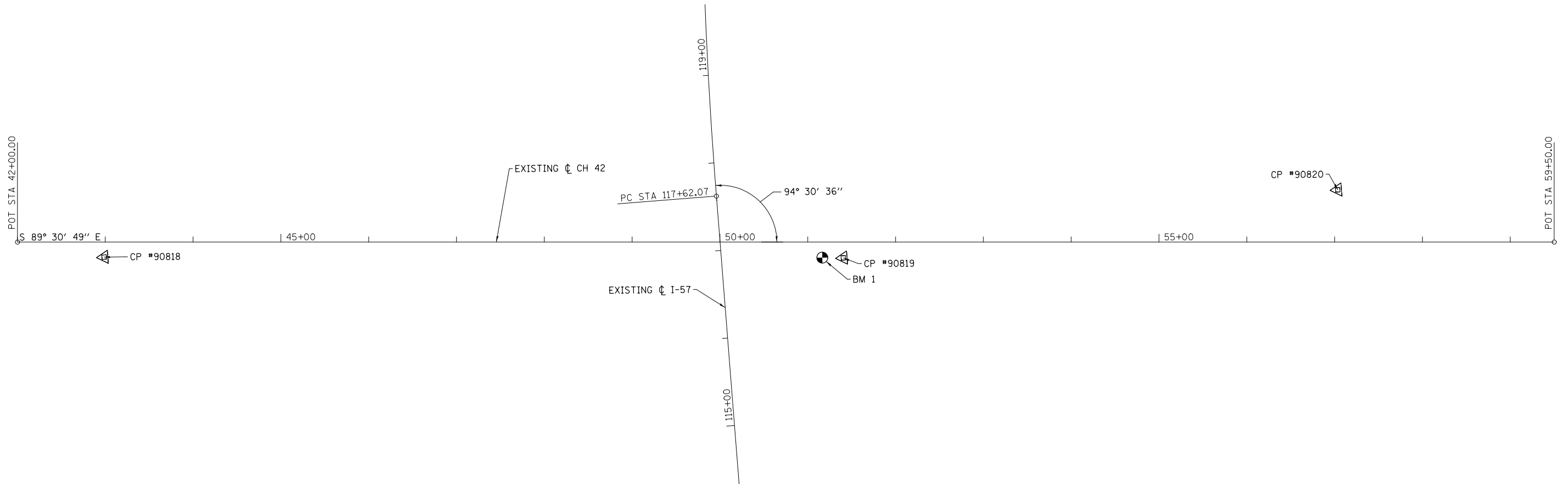
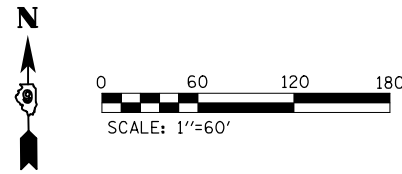
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	(41-1)BR-1	JEFFERSON	92	16
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT			CONTRACT NO. 78455	



**BENCHMARKS**

NAVD 88

BM 1 - CHISELED "□" TOP OF SOUTHEAST WINGWALL, SN 041-0055, EL 442.932



PRINT DRIVER = L:\ESCA\Projects\1295\02\1295\_02.dwg  
 PLOT DATE = 10/3/2018  
 PLOT SCALE = 0.1667 / 1" = 60'  
 USER NAME = kjk



USER NAME = kjk  
 ESCA PROJECT NO. 1295.02  
 PLOT SCALE = 0.1667 / 1" = 60'  
 PLOT DATE = 10/3/2018

DESIGNED - KJK  
 DRAWN - KJK  
 CHECKED - ELH  
 DATE - 06/18

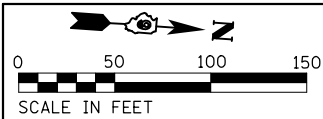
REVISED -  
 REVISED -  
 REVISED -  
 REVISED -

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

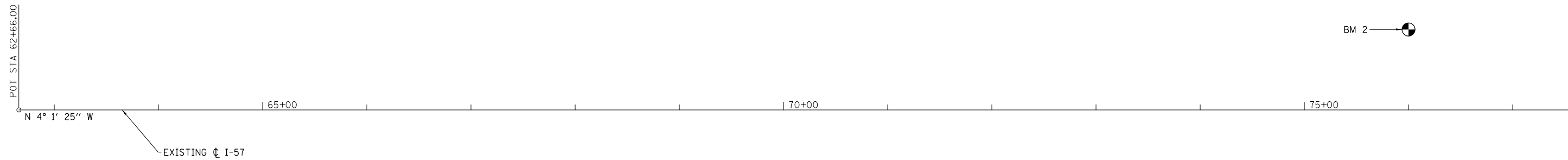
**ALIGNMENT, TIES, AND BENCHMARKS**

SCALE: 1"=60' SHEET NO. 1 OF 4 SHEETS STA. 42+00.00 TO STA. 59+50.00

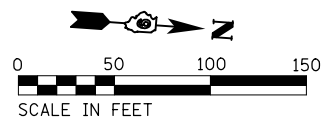
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	(41-1)BR-1	JEFFERSON	92	17
FED. ROAD DIST. NO.			CONTRACT NO. 78455	
ILLINOIS FED. AID PROJECT				



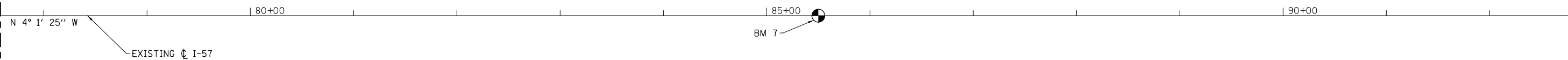
**BENCHMARKS** NAVD 88  
 BM 2 - CHISELED "□" IN CENTER OF BOX CULVERT,  
 35' LEFT OF C SBL, STA 76+00, EL 415.256



MATCH LINE STA 77 + 58

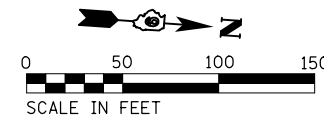


**BENCHMARKS** NAVD 88  
 BM 7 - CHISELED "□" IN SOUTH CENTER OF DROP INLET IN CENTER OF MEDIAN  
 STA 85+50, EL 411.325

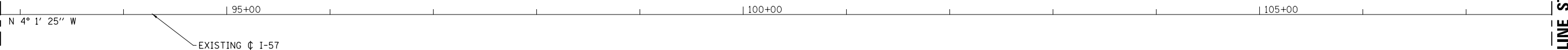


MATCH LINE STA 77 + 58

MATCH LINE STA 92 + 81



**BENCHMARKS** NAVD 88  
 BM 8 - CHISELED "□" IN NW CORNER OF SN 028-0013  
 STA 102+00, EL 417.574



MATCH LINE STA 92 + 81

MATCH LINE STA 107 + 83  
 SEE SHEET 19 FOR CONT.

PRINT DRIVER = L:\0-ESCA\1019\1019.dwg  
 PLOT DATE = 10/3/2018  
 PLOT SCALE = 0.1667 / in.  
 USER NAME = kjk



USER NAME = kjk  
 ESCA PROJECT NO. 1295.02  
 PLOT SCALE = 0.1667 / in.  
 PLOT DATE = 10/3/2018

DESIGNED - KJK  
 DRAWN - KJK  
 CHECKED - ELH  
 DATE - 06/18

REVISED -  
 REVISED -  
 REVISED -  
 REVISED -

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

ALIGNMENT, TIES, AND BENCHMARKS

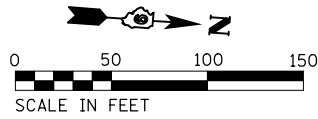
SCALE: 1"=50' SHEET NO. 2 OF 4 SHEETS STA. 62+66.00 TO STA. 107+83.00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	(41-1)BR-1	JEFFERSON	92	18
CONTRACT NO. 78455				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

**BENCHMARKS**

NAVD 88

BM 1 - CHISELED "□" TOP OF SOUTHEAST WINGWALL, SN 041-0055, EL 442.932



CP #90816  
SEE SHEET 22  
FOR CP #90816 TIE

EXISTING C CH 42

94° 30' 36"

EXISTING C I-57

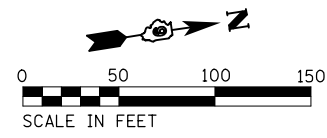
PC STA 117+62.07

EX CURVE I57 3  
PI STA = 131+59.37  
Δ = 27° 24' 48" (RT)  
D = 1° 00' 00"  
R = 5,729.07'  
T = 1,397.30'  
L = 2,741.08'  
E = 167.94'  
PC STA = 117+62.07  
PT STA = 145+03.15

BM 1  
CP #90819

MATCH LINE STA 107+83  
SEE SHEET 18 FOR CONT.

MATCH LINE STA 122+88



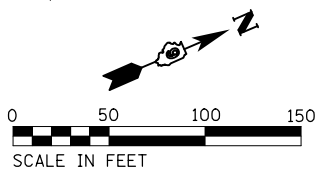
PI STA 131+59.37

EX CURVE I57 3  
PI STA = 131+59.37  
Δ = 27° 24' 48" (RT)  
D = 1° 00' 00"  
R = 5,729.07'  
T = 1,397.30'  
L = 2,741.08'  
E = 167.94'  
PC STA = 117+62.07  
PT STA = 145+03.15

CP #90822

MATCH LINE STA 122+88

MATCH LINE STA 138+07



PT STA 145+03.15

EX CURVE I57 3  
PI STA = 131+59.37  
Δ = 27° 24' 48" (RT)  
D = 1° 00' 00"  
R = 5,729.07'  
T = 1,397.30'  
L = 2,741.08'  
E = 167.94'  
PC STA = 117+62.07  
PT STA = 145+03.15

N 23° 23' 22" E

MATCH LINE STA 138+07

MATCH LINE STA 152+92  
SEE SHEET 20 FOR CONT.

PRINT DRIVER = L:\05-2018\1295\1295.dwg  
SCALE NAME = PLOT  
SCALE VALUE = 1/8"=1'-0"



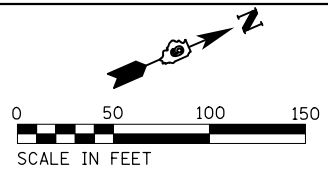
USER NAME = kjk	DESIGNED - KJK	REVISED -
ESCA PROJECT NO. 1295.02	DRAWN - KJK	REVISED -
PLOT SCALE = 0.1667' / 1"	CHECKED - ELH	REVISED -
PLOT DATE = 10/3/2018	DATE - 06/18	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**ALIGNMENT, TIES, AND BENCHMARKS**

SCALE: 1"=50' SHEET NO. 3 OF 4 SHEETS STA. 107+83.00 TO STA. 152+92.00

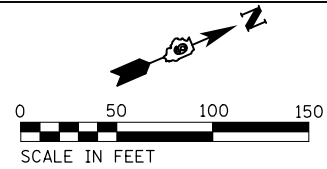
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	(41-1)BR-1	JEFFERSON	92	19
CONTRACT NO. 78455				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				



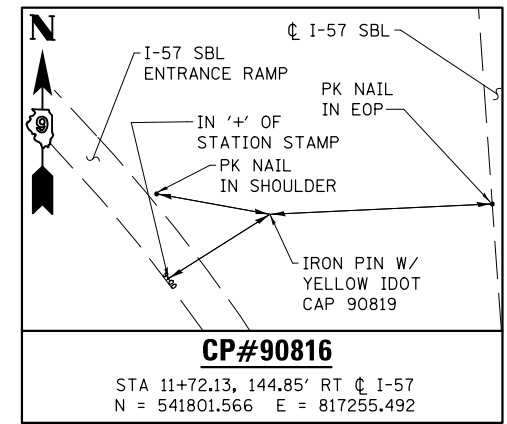
MATCH LINE STA 152+92  
SEE SHEET 19 FOR CONT.



MATCH LINE STA 167+96



MATCH LINE STA 167+96



PRINT DRIVER = L:\D-E\B\B\1679  
 SCALE: 1"=50'  
 PLOT DATE = 10/3/2018



USER NAME = kjk	DESIGNED - KJK	REVISED -
ESCA PROJECT NO. 1295.02	DRAWN - KJK	REVISED -
PLOT SCALE = 0.1667' / 1"	CHECKED - ELH	REVISED -
PLOT DATE = 10/3/2018	DATE - 04/18	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

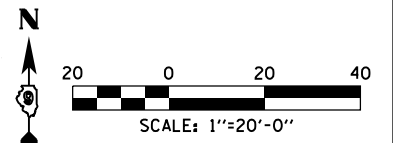
ALIGNMENT, TIES, AND BENCHMARKS

SCALE: 1"=50' SHEET NO. 4 OF 4 SHEETS STA. 152+92.00 TO STA. 178+30.71

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	(41-1)BR-1	JEFFERSON	92	20
CONTRACT NO. 78455				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				



BM 1 ELEV. 442.93  
 CHISELED " " IN TOP  
 OF SOUTH EAST WINGWALL  
 ON SN 041-0055  
 STA 51+16.50, 17.8' RT.

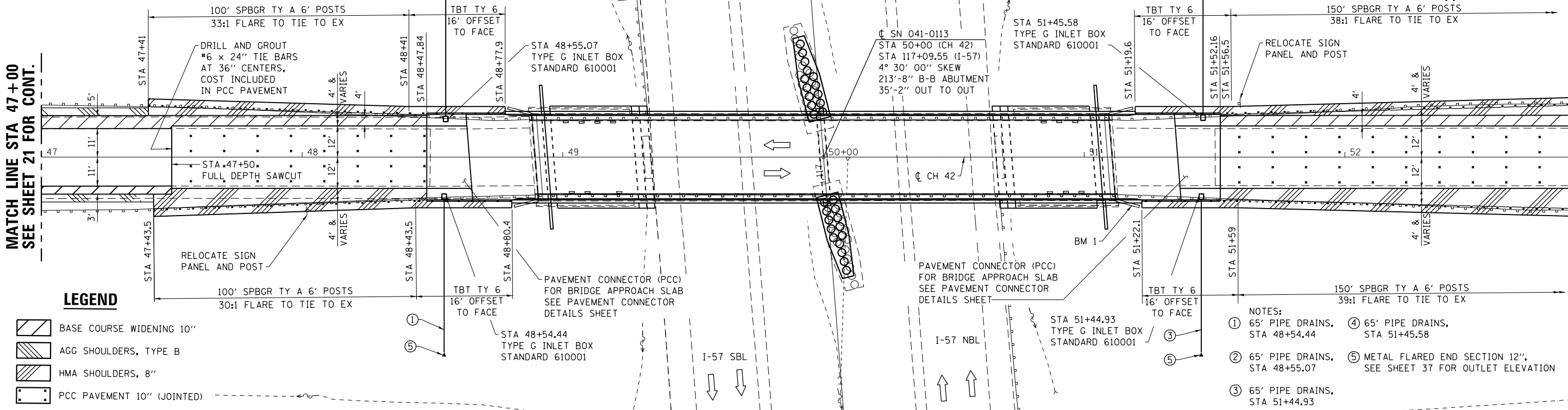


**MATCH LINE STA 47+00  
 SEE SHEET 21 FOR CONT.**

**MATCH LINE STA 53+00  
 SEE SHEET 23 FOR CONT.**

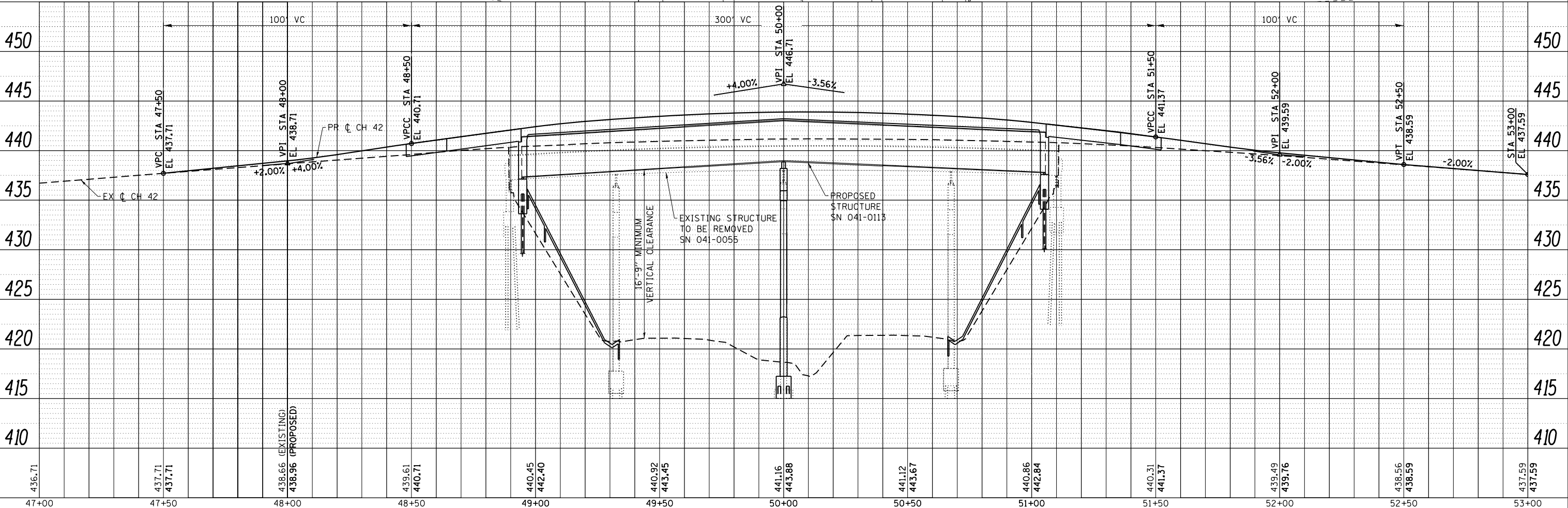
PLAN	SURVEYED	DATE
	BY	
	NO.	
	NO.	
	NO.	
	NO.	

PROFILE	SURVEYED	DATE
	BY	
	NO.	
	NO.	
	NO.	
	NO.	



- LEGEND**
- BASE COURSE WIDENING 10"
  - AGG SHOULDERS, TYPE B
  - HMA SHOULDERS, 8"
  - PCC PAVEMENT 10" (JOINTED)

- NOTES:**
- ① 65' PIPE DRAINS, STA 48+54.44
  - ② 65' PIPE DRAINS, STA 48+55.07
  - ③ 65' PIPE DRAINS, STA 51+44.93
  - ④ 65' PIPE DRAINS, STA 51+45.58
  - ⑤ METAL FLARED END SECTION 12", SEE SHEET 37 FOR OUTLET ELEVATION



47+00	47+50	48+00	48+50	49+00	49+50	50+00	50+50	51+00	51+50	52+00	52+50	53+00
436.71	437.71 437.71	438.66 (EXISTING) 438.96 (PROPOSED)	439.61 440.71	440.45 442.40	440.92 443.45	441.16 443.88	441.12 443.67	440.86 442.84	440.31 441.37	439.49 439.76	438.56 438.59	437.59 437.59



USER NAME = kjk  
 ESCA PROJECT NO. 1295.02  
 PLOT SCALE = 40.0000' / in.  
 PLOT DATE = 10/3/2018

DESIGNED - ELH	REVISED -
DRAWN - KJA/KJK	REVISED -
CHECKED - ELH	REVISED -
DATE - 09/18	REVISED -

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**FAS 824 (CH 42) PLAN AND PROFILE**

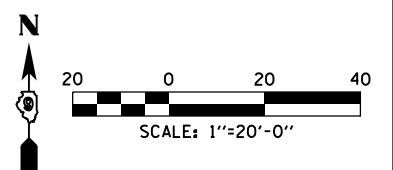
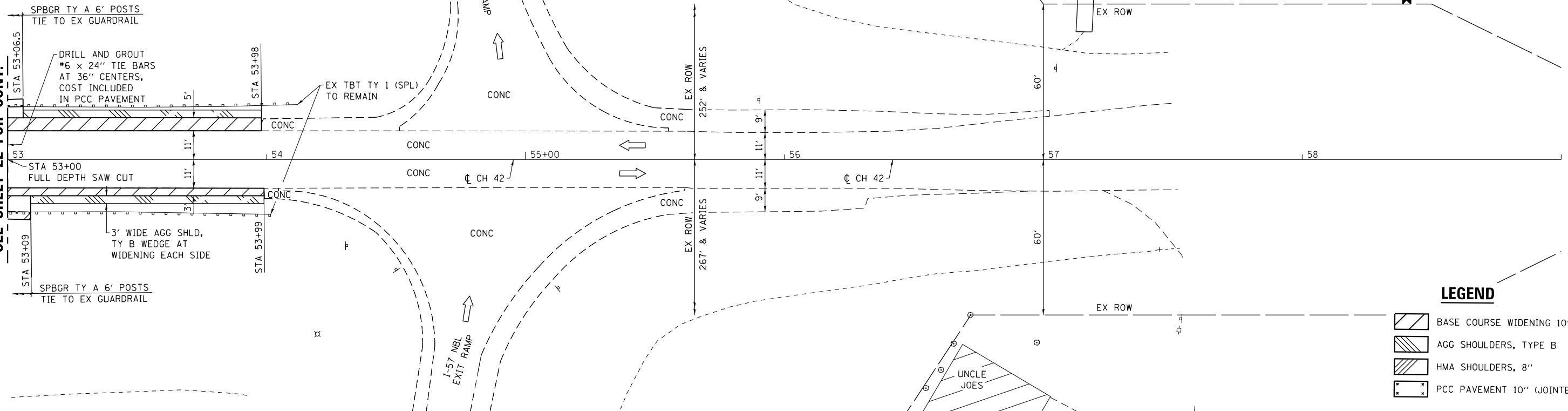
SCALE: AS SHOWN SHEET NO. 2 OF 3 SHEETS STA. 47+00.00 TO STA. 53+00.00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	(41-1)BR-1	JEFFERSON	92	22
CONTRACT NO. 78455				
ILLINOIS FED. AID PROJECT				

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

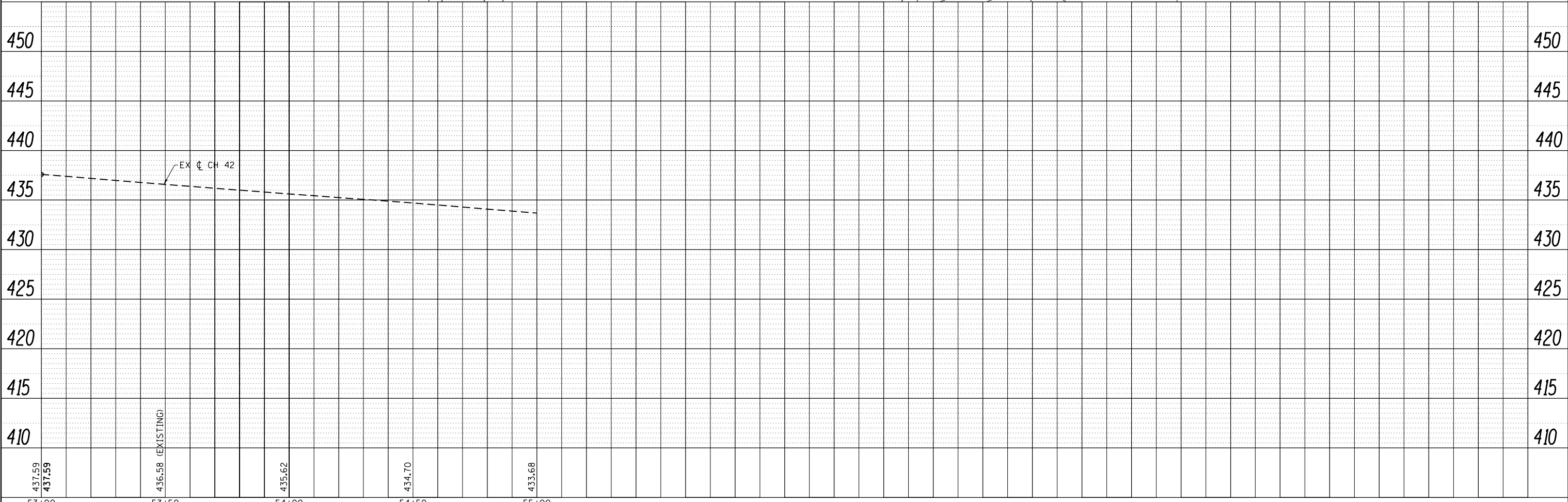
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	PLOTTED		
	GRADES CHECKED		
	STRUCTURE NOTATIONS CHECKED		
	NOTE BOOK NO.		
	FILE NAME		

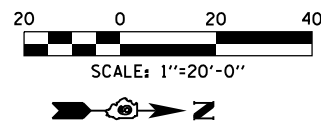
**MATCH LINE STA 53+00  
SEE SHEET 22 FOR CONT.**



**LEGEND**

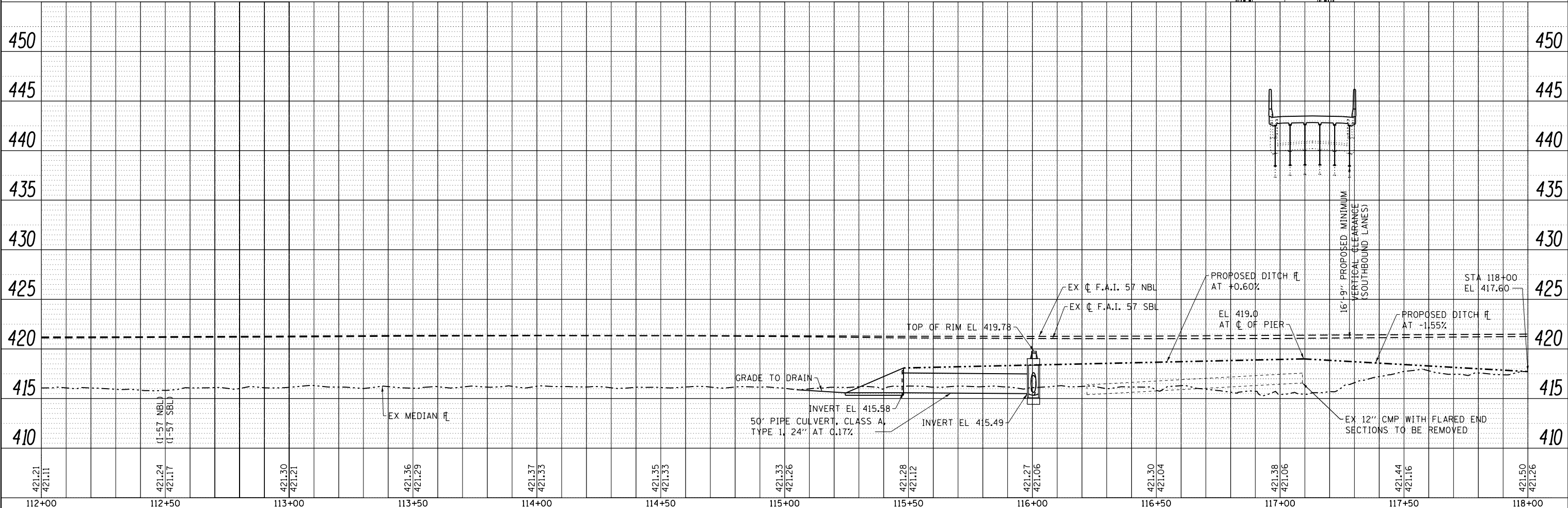
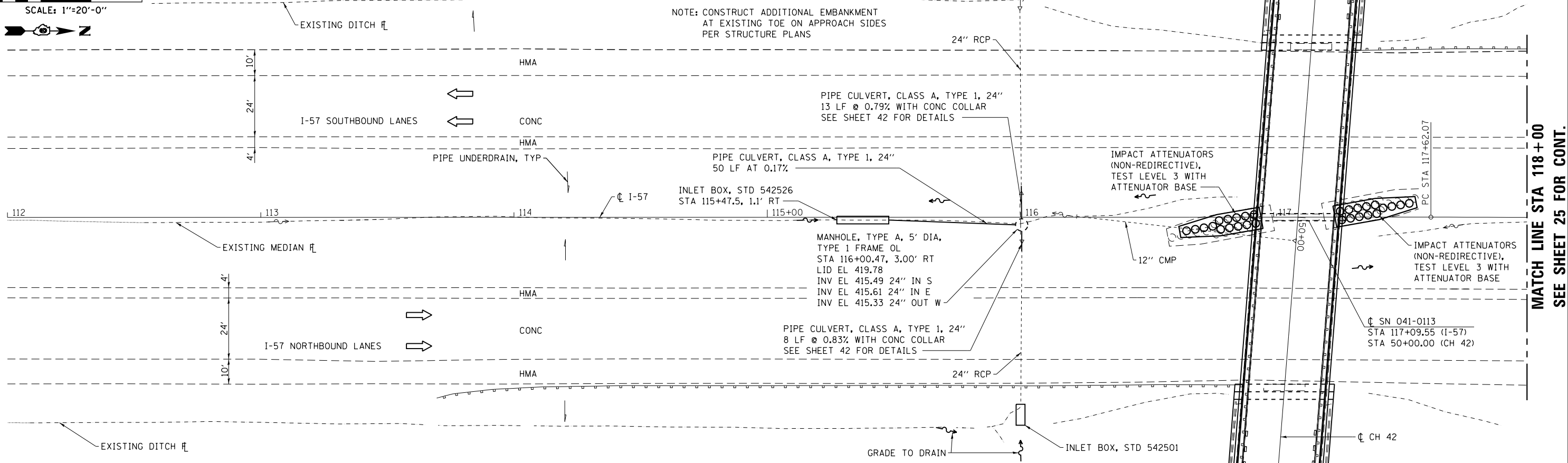
	BASE COURSE WIDENING 10"
	AGG SHOULDERS, TYPE B
	HMA SHOULDERS, 8"
	PCC PAVEMENT 10" (JOINTED)





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

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



MATCH LINE STA 118+00  
SEE SHEET 25 FOR CONT.



USER NAME = kjk  
ESCA PROJECT NO. 1295.02  
PLOT SCALE = 40.0000' / in.  
PLOT DATE = 10/3/2018

DESIGNED -	ELH	REVISED -
DRAWN -	KAH/KJK	REVISED -
CHECKED -	ELH	REVISED -
DATE -	07/18	REVISED -

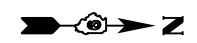
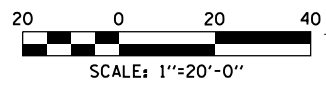
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**I-57 PLAN AND PROFILE**

SCALE: AS SHOWN SHEET NO. 1 OF 2 SHEETS STA. 112+00.00 TO STA. 118+00.00

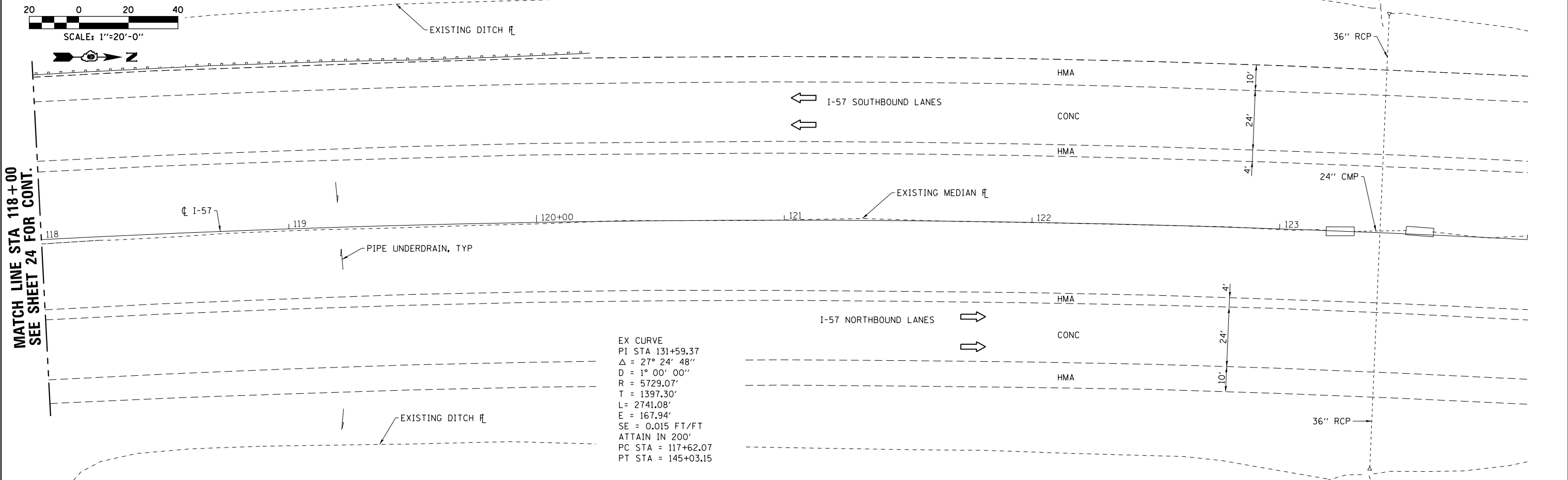
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	(41-1)BR-1	JEFFERSON	92	24
CONTRACT NO. 78455				
ILLINOIS FED. AID PROJECT				





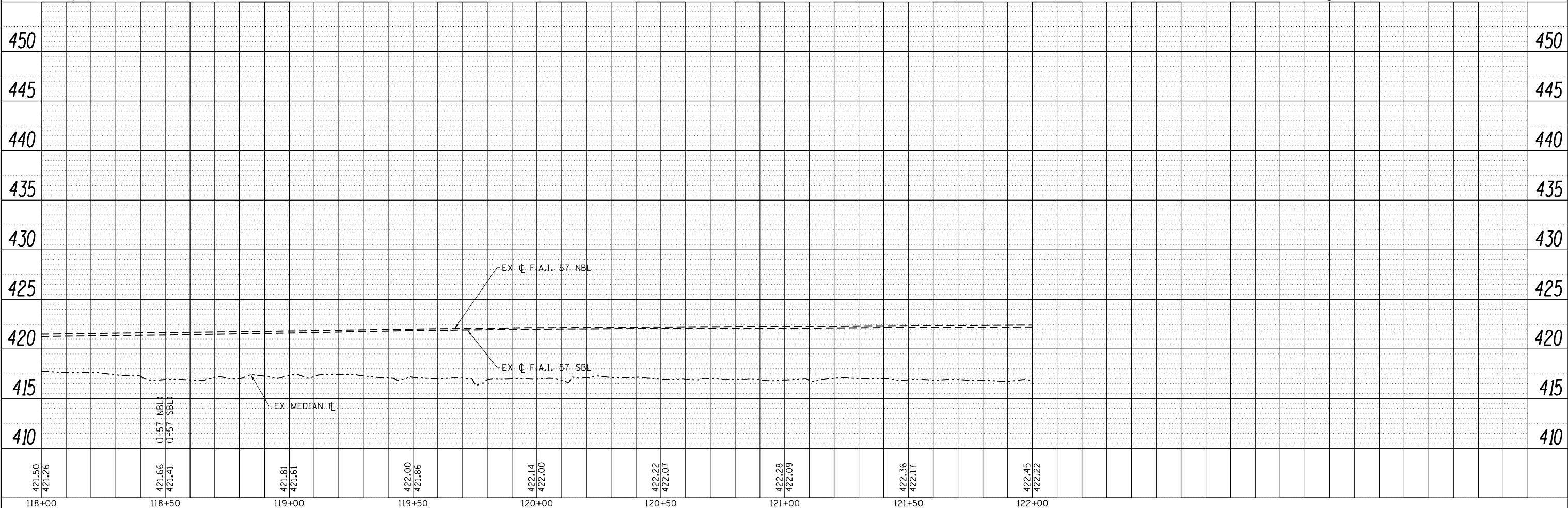
PLAN	SURVEYED	BY	DATE
	PLOTTED		
	NOTE BOOK		
	NO.		
	ALIGNED		
	CHECKED		
	FILE NAME		

MATCH LINE STA 118+00  
SEE SHEET 24 FOR CONT.



EX CURVE  
 PI STA 131+59.37  
 $\Delta = 27^\circ 24' 48''$   
 $D = 1^\circ 00' 00''$   
 $R = 5729.07'$   
 $T = 1397.30'$   
 $L = 2741.08'$   
 $E = 167.94'$   
 $SE = 0.015 \text{ FT/FT}$   
 ATTAIN IN 200'  
 PC STA = 117+62.07  
 PT STA = 145+03.15

PROFILE	SURVEYED	BY	DATE
	PLOTTED		
	GRADES CHECKED		
	NO.		
	STRUCTURE		
	NOTATIS CHFD		



USER NAME = kjk  
 ESCA PROJECT NO. 1295.02  
 PLOT SCALE = 40.0000' / in.  
 PLOT DATE = 10/3/2018

DESIGNED - ELH	REVISED -
DRAWN - KAH/KJK	REVISED -
CHECKED - ELH	REVISED -
DATE - 07/18	REVISED -

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

I-57 PLAN AND PROFILE

SCALE: AS SHOWN SHEET NO. 2 OF 2 SHEETS STA. 118+00.00 TO STA. 124+00.00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	(41-1)BR-1	JEFFERSON	92	25
			CONTRACT NO. 78455	
ILLINOIS FED. AID PROJECT				

### GENERAL NOTES

- PRE-STAGE I: CONSTRUCT THE BASE COURSE FROM RT STA 45+78 TO RT STA 53+98 AS SHOWN ON THIS SHEET PRIOR TO PLACING THE SIGNALS IN OPERATION AND PLACEMENT OF THE TEMPORARY BARRIERS AND RAILING. THE EXISTING DEBRIS AND AGGREGATE SHALL BE REMOVED FROM THE TOP OF THE BRIDGE DECK WITHIN THE AREA OF THE STAGE I TRAFFIC LANE. THE COST ASSOCIATED WITH THE REMOVAL WILL NOT BE PAID FOR SEPARATELY, BUT WILL BE INCLUDED IN THE COST OF THE BASE COURSE WIDENING 10". TEMPORARY REPAIR OR PATCHING OF THE EXISTING BRIDGE DECK FOR STAGE I TRAFFIC, IF NEEDED AND DIRECTED BY THE ENGINEER, WILL BE PAID FOR IN ACCORDANCE WITH ARTICLE 109.04 OF THE STANDARD SPECIFICATIONS.
- TRAFFIC CONTROL SHALL BE ERECTED AS SHOWN AND ACCORDING TO TRAFFIC CONTROL AND PROTECTION, STANDARD 701321. SEE STANDARD 701321 FOR THE COMPLETION OF THE STAGE CONSTRUCTION TRAFFIC CONTROL THAT IS NOT SHOWN THAT INCLUDES, BUT IS NOT LIMITED TO, ADVANCE SIGNING, ADVANCE LOOP PLACEMENT, DRUMS WITH STEADY BURNING LIGHTS, DOUBLE VERTICAL PANELS AND BARRIER WALL/GUARDRAIL MARKERS.
- SEE SPECIAL PROVISIONS FOR ADDITIONAL TRAFFIC CONTROL REQUIREMENTS.
- COORDINATE LOCATION OF SIGNALS WITH FINAL WORK AS DIRECTED BY THE ENGINEER.
- THE SIGNALS AT THE RAMP TERMINAL INTERSECTIONS SHOULD BE ACTUATED AND RUN ON ONE CONTROLLER.
- THE ONE-WAY BIDIRECTIONAL LANE ALONG COUNTY HIGHWAY 42 DURING CONSTRUCTION SHOULD HAVE A 40 SECOND CLEARANCE INTERVAL, PRIOR TO THE OPPOSING DIRECTIONS HAVING A GREEN INDICATION.
- THE PROPOSED SIGNAL SYSTEM SHOULD HAVE A 180 SECOND CYCLE LENGTH.
- THESE INTERSECTIONS SHOULD BE MONITORED AND THE CYCLE LENGTH AND TIMING ADJUSTED IF PROBLEMS ARE ENCOUNTERED DURING OPERATIONS. BACKUPS OF RAMP TRAFFIC ONTO I-57 MUST BE AVOIDED.
- TEMPORARY RUMBLE STRIPS SHOWN ON STANDARD 701321 ARE NOT REQUIRED.
- THE DIMENSION SHOWN ON THE WIDTH RESTRICTION SIGN (W12-I102(O)-48) SHOWN ON STANDARD 701321 AND ON THE ADVANCE WARNING SIGN (W12-I103) SHOWN ON SHEET 28 SHALL BE 10'-6" FOR STAGE I CONSTRUCTION.
- THE ADVANCE DETECTOR LOOPS ARE TYPICALLY LOCATED 275 FEET IN ADVANCE OF THE STOP BAR. THE BUREAU OF OPERATIONS SHOULD APPROVE THE LOOP LOCATIONS PRIOR TO INSTALLATION.
- THE CENTERLINE PAVEMENT MARKING SHALL BE REMOVED FROM THE STOP BAR TO THE SAND ATTENUATORS OR DRUMS. EDGE LINE PAVEMENT MARKING SHOULD BE REMOVED IF A 10 FOOT LANE WIDTH CANNOT BE MAINTAINED. TEMPORARY EDGE LINES SHOULD BE INSTALLED WHEN THE EDGE LINES ARE REMOVED.
- ANY TIME THE CONCRETE BARRIER OR RAILING IS NOT IN THE PROPER POSITION, FLAGGERS SHALL BE IN PLACE TO CONTROL TRAFFIC. THE TEMPORARY TRAFFIC SIGNAL SHALL BE SET TO FLASH ALL RED.
- THE STAGE I CONSTRUCTION SHALL INCLUDE COMPLETION OF THE EARTHWORK, BASE COURSE WIDENING, PCC PAVEMENT, SUBBASE, HMA SHOULDERS, GUARDRAIL, AND TRAFFIC BARRIER TERMINALS FROM LT STA 45+96 TO LT STA 53+98 AS REFERENCED ON THIS SHEET AND DESCRIBED IN DETAIL ON THE PLAN AND PROFILE SHEETS. PLACEMENT OF THE BASE COURSE AND SUBBASE AS INDICATED MAY REQUIRE RELOCATION OF THE TEMPORARY BARRIERS, RAILING AND THE IMPACT ATTENUATORS DURING THE DAYTIME HOURS. THE COST ASSOCIATED WITH THE STAGING, INCLUDING ANY RELOCATION OF THE TEMPORARY CONCRETE BARRIERS, RAILING AND IMPACT ATTENUATORS, WILL NOT BE PAID FOR SEPARATELY BUT WILL BE INCLUDED IN THE COST OF THE VARIOUS PAY ITEMS INCLUDED IN THE PLANS.
- THE TEMPORARY CONCRETE BARRIER SHALL BE PINNED AS SPECIFIED IN SECTION 704 OF THE STANDARD SPECIFICATIONS AND ACCORDING TO THE DETAILS SHOWN ON THE PLANS. THE TEMPORARY CONCRETE BARRIER FROM STA 47+12.5 TO STA 47+50 AND STA STA 53+00 TO 53+37.5 SHALL BE PINNED ACCORDING TO THE EXISTING SLAB DETAIL SHOWN ON THE PLANS.
- THE TEMPORARY RAILING SHALL BE CONNECTED TO THE TEMPORARY CONCRETE BARRIER AT STA 47+50 AND 53+00 WITH TEMPORARY TRAFFIC BARRIER TERMINAL TYPE 11. SEE STANDARD 631051 FOR DETAILS.

### SCHEDULE OF QUANTITIES

#### TEMPORARY CONCRETE BARRIER

STATION, O/S	TO	STATION, O/S	FEET
46+75, 5.5' LT		47+25, 0.75' RT	50'
47+25, 0.75' RT		47+50, 2.0' RT	25'
53+00, 2.0' RT		53+25, 0.75' RT	25'
53+25, 0.75' FT		53+75, 5.5' LT	50'
		TOTAL	150'

#### PINNING TEMPORARY CONCRETE BARRIER

STATION	TO	STATION	TYPE	EACH
47+12.5		47+37.5	TRANSITION	3
47+37.5		47+50.0	CONTINUOUS	3
53+00.0		53+12.5	CONTINUOUS	3
53+12.5		53+37.5	TRANSITION	3
		TOTAL		12

#### TEMPORARY BRIDGE TRAFFIC SIGNALS - 1 EACH

#### IMPACT ATTENUATORS, TEMPORARY (NON-REDIRECTIVE), TEST LEVEL 2 - 2 EACH

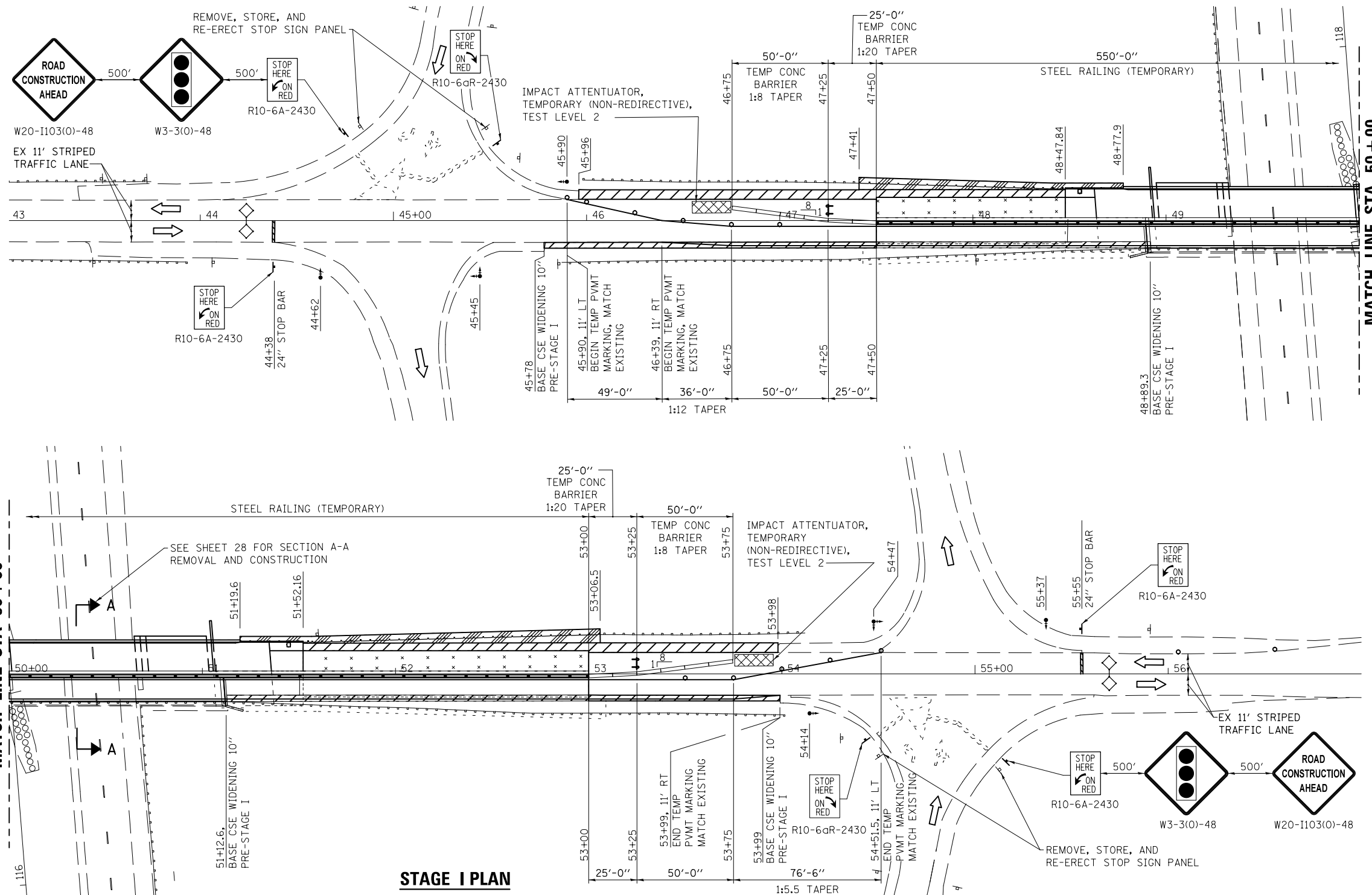
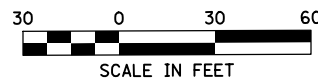
#### TEMPORARY TRAFFIC BARRIER TERMINAL, TYPE 11 - 2 EACH

#### STEEL RAILING (TEMPORARY)

STATION, O/S	TO	STATION, O/S	FEET
47+50, 2.0' RT		53+00, 2.0' RT	550'

### LEGEND

- DIRECTION OF TRAFFIC
- TRAFFIC SIGNAL WITH BACKPLATE, SIGNAL DIRECTION INDICATED
- DETECTOR LOOP
- DRUM WITH STEADY BURNING BI-DIRECTIONAL LIGHT
- TYPE III BARRICADE WITH FLASHING LIGHTS
- BASE COURSE WIDENING 10"
- HMA SHOULDERS 8"
- PCC PAVEMENT 10" (JOINTED)



**STAGE I PLAN**

PRINT DRIVER = LUD-EB-04-01-09  
 SCALE: AS SHOWN  
 DATE: 10/3/2018



USER NAME = kjk  
 ESCA PROJECT NO. 1295.02  
 PLOT SCALE = 0.1667' / 1"

DESIGNED - KJK  
 DRAWN - KJK  
 CHECKED - ELH  
 DATE - 07/18

REVISED -  
 REVISED -  
 REVISED -  
 REVISED -

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

**FAS 824 (CH 42) STAGE CONSTRUCTION DETAILS**

SCALE: AS SHOWN SHEET NO. 1 OF 3 SHEETS STA. 43+00.00 TO STA. 57+00.00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	(41-1)BR-1	JEFFERSON	92	26
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT			CONTRACT NO. 78455	

**GENERAL NOTES**

- TRAFFIC CONTROL SHALL BE ERECTED AS SHOWN AND ACCORDING TO TRAFFIC CONTROL AND PROTECTION, STANDARD 701321. SEE STANDARD 701321 FOR THE COMPLETION OF THE STAGE CONSTRUCTION TRAFFIC CONTROL THAT IS NOT SHOWN THAT INCLUDES, BUT IS NOT LIMITED TO, ADVANCE SIGNING, ADVANCE LOOP PLACEMENT, DRUMS WITH STEADY BURNING LIGHTS, DOUBLE VERTICAL PANELS AND BARRIER WALL/GUARDRAIL MARKERS.
- SEE SPECIAL PROVISIONS FOR ADDITIONAL TRAFFIC CONTROL REQUIREMENTS.
- COORDINATE LOCATION OF SIGNALS WITH FINAL WORK AS DIRECTED BY THE ENGINEER.
- TEMPORARY RUMBLE STRIPS SHOWN ON STANDARD 701321 ARE NOT REQUIRED.
- THE DIMENSION SHOWN ON THE WIDTH RESTRICTION SIGN (W12-1102(O)-48) SHOWN ON STANDARD 701321 AND ON THE ADVANCE WARNING SIGN (W12-1103) SHOWN ON SHEET 28 SHALL BE 10'-7" FOR STAGE II CONSTRUCTION.
- THE ADVANCE DETECTOR LOOPS ARE TYPICALLY LOCATED 275 FEET IN ADVANCE OF THE STOP BAR. THE BUREAU OF OPERATIONS SHOULD APPROVE THE LOOP LOCATIONS PRIOR TO INSTALLATION.
- THE CENTERLINE PAVEMENT MARKING SHOULD BE REMOVED FROM THE STOP BAR TO THE SAND ATTENUATORS OR DRUMS. EDGE LINE PAVEMENT MARKING SHOULD BE REMOVED IF A 10 FOOT LANE WIDTH CANNOT BE MAINTAINED. TEMPORARY EDGE LINES SHOULD BE INSTALLED WHEN THE EDGE LINES ARE REMOVED.
- ANY TIME THE CONCRETE BARRIER IS NOT IN THE PROPER POSITION, FLAGGERS SHALL BE IN PLACE TO CONTROL TRAFFIC. THE TEMPORARY TRAFFIC SIGNALS SHALL BE SET TO FLASH ALL RED.
- THE TEMPORARY SIGNALS WILL REMAIN IN OPERATION AND THE TEMPORARY BARRIERS WILL REMAIN IN PLACE UNTIL THE BRIDGE, PCC PAVEMENT 10", PCC PAVEMENT CONNECTOR AND APPROACH SLAB IS COMPLETE INCLUDING F-SHAPE PARAPET, THE REMAINING HMA SHOULDER, GUARDRAIL, AND TRAFFIC BARRIER TERMINALS SHALL BE COMPLETED USING THE APPROPRIATE STANDARDS INCLUDED IN THE PLANS AND TRAFFIC SHALL BE OPEN TO BOTH LANES DURING NON-WORKING HOURS. THE CONTRACTOR SHALL SCHEDULE THEIR OPERATIONS SO THERE IS NO MORE THAN TWO WEEKS BETWEEN THE REMOVAL OF THE TEMPORARY BARRIERS AND THE START OF GUARDRAIL AND TERMINAL INSTALLATION.
- THE TEMPORARY CONCRETE BARRIER SHALL BE PINNED AS SPECIFIED IN SECTION 704 OF THE STANDARD SPECIFICATIONS AND ACCORDING TO THE DETAILS SHOWN ON THE PLANS. THE TEMPORARY CONCRETE BARRIER PLACED ON THE PROPOSED PCC PAVEMENT 10", APPROACH SLAB, AND BRIDGE DECK FROM STA 47+50 TO 53+00 SHALL BE RESTRAINED USING STEEL RETAINERS 1"x10"x10" SHOWN FOR DETAIL III ON SHEET NO. 49. THE STEEL RETAINERS SHALL BE PLACED ON 6'-0" CENTERS AND SECURED TO THE PAVEMENT BY PLACING 2 EACH 3/8" DIAMETER EXPANSION ANCHORS OR CAST IN PLACE INSERTS AT THE MID-DEPTH OF THE PAVEMENT. THE ANCHORS OR INSERTS SHALL HAVE A MINIMUM PROOF LOAD OF 5,000 POUNDS. THE COST OF PROVIDING THE RESTRAINING SYSTEM FOR THE TEMPORARY CONCRETE BARRIER ON TOP OF THE PCC PAVEMENT 10", APPROACH SLAB, OR BRIDGE DECK WILL NOT BE PAID FOR SEPARATELY.
- THESE INTERSECTIONS SHOULD BE MONITORED AND THE CYCLE LENGTH AND TIMING ADJUSTED IF PROBLEMS ARE ENCOUNTERED DURING OPERATIONS. BACKUPS OF RAMP TRAFFIC ONTO I-57 MUST BE AVOIDED.

**SCHEDULE OF QUANTITIES**

RELOCATE TEMPORARY CONCRETE BARRIER

STATION, O/S	TO	STATION, O/S	FEET
46+62.5, 4.0' RT		47+50.0, 3.9' LT	87.5'
53+00.0, 3.9' LT		53+62.5, 4.0' RT	62.5'
		TOTAL	150.0'

TEMPORARY CONCRETE BARRIER

STATION, O/S	TO	STATION, O/S	FEET
47+50, 3.9' LT		53+00.0, 3.9' LT	550'
		TOTAL	550'

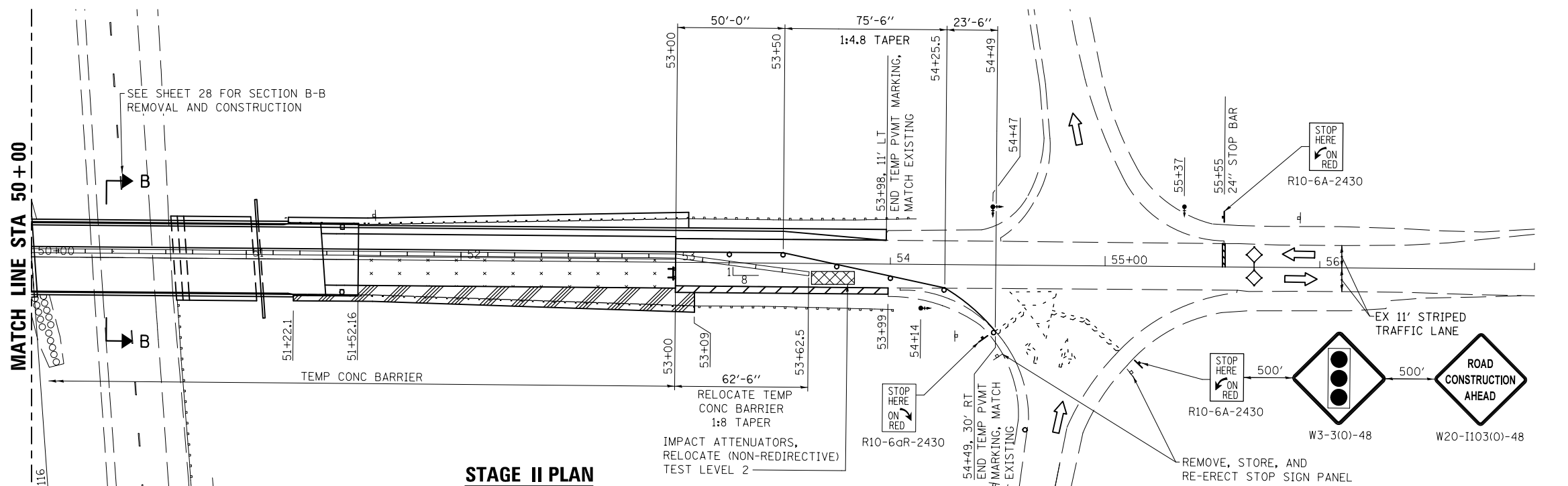
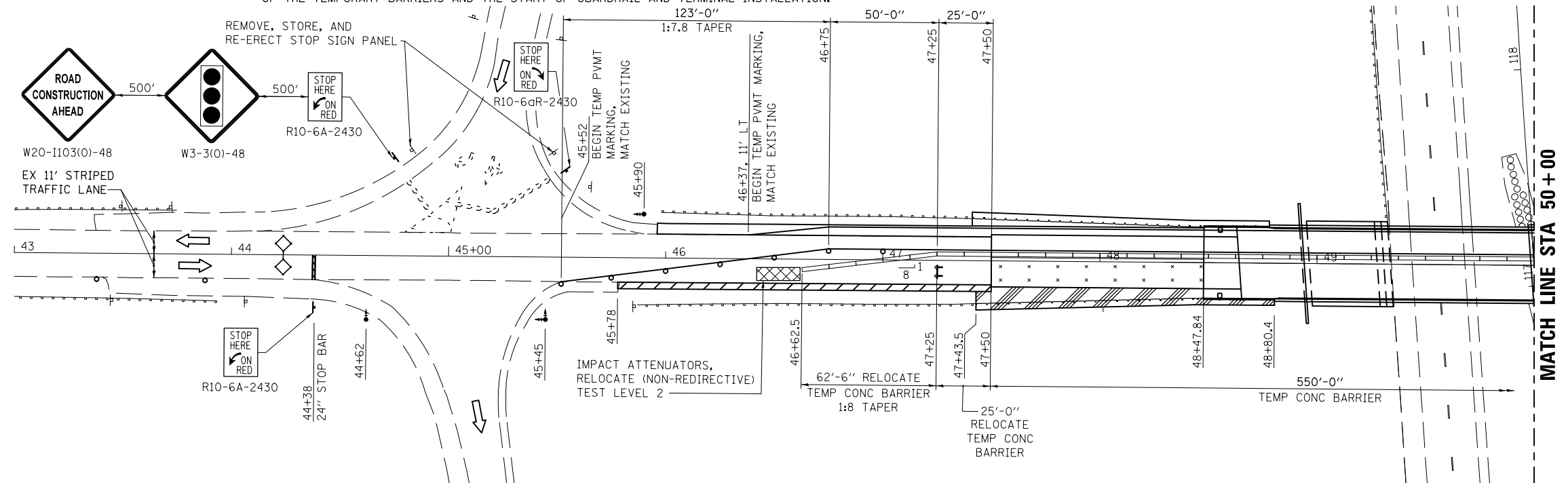
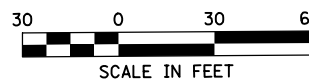
PINNING TEMPORARY CONCRETE BARRIER

STATION	TO	STATION	TYPE	EACH
47+25		47+50	TRANSITION	3
53+00		53+25	TRANSITION	3
		TOTAL		6

IMPACT ATTENUATORS, RELOCATE (NON-REDIRECTIVE), TEST LEVEL 2 - 2 EACH

**LEGEND**

- DIRECTION OF TRAFFIC
- TRAFFIC SIGNAL WITH BACKPLATE, SIGNAL DIRECTION INDICATED
- DETECTOR LOOP
- DRUM WITH STEADY BURNING BI-DIRECTIONAL LIGHT
- TYPE III BARRICADE WITH FLASHING LIGHTS
- BASE COURSE WIDENING 10"
- HMA SHOULDERS 8"
- PCC PAVEMENT 10" (JOINTED)



**STAGE II PLAN**

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 PLOT SCALE = 0.1667' / 1"



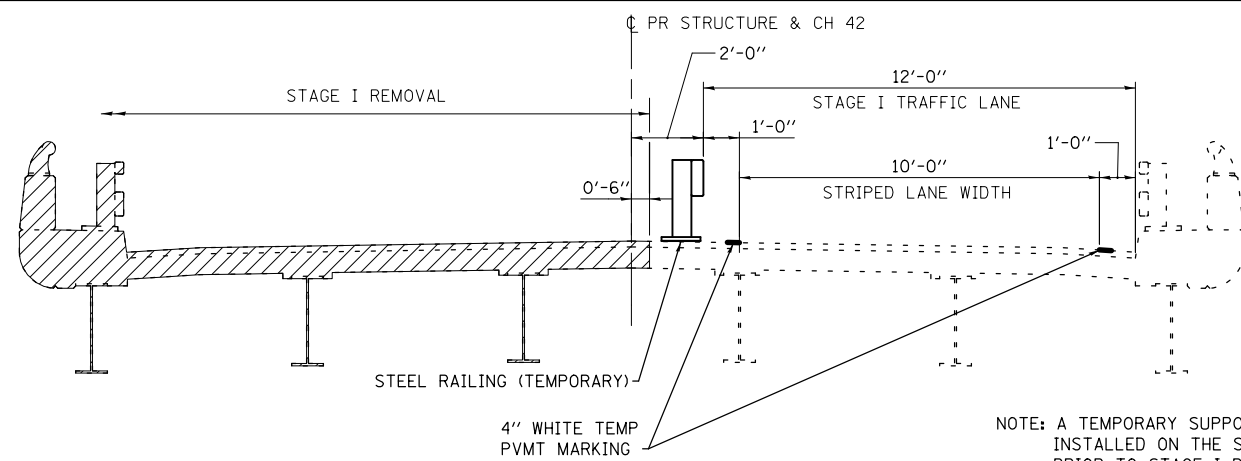
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ESCA PROJECT NO. 1295.02	DRAWN - KJK	REVISED -
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**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

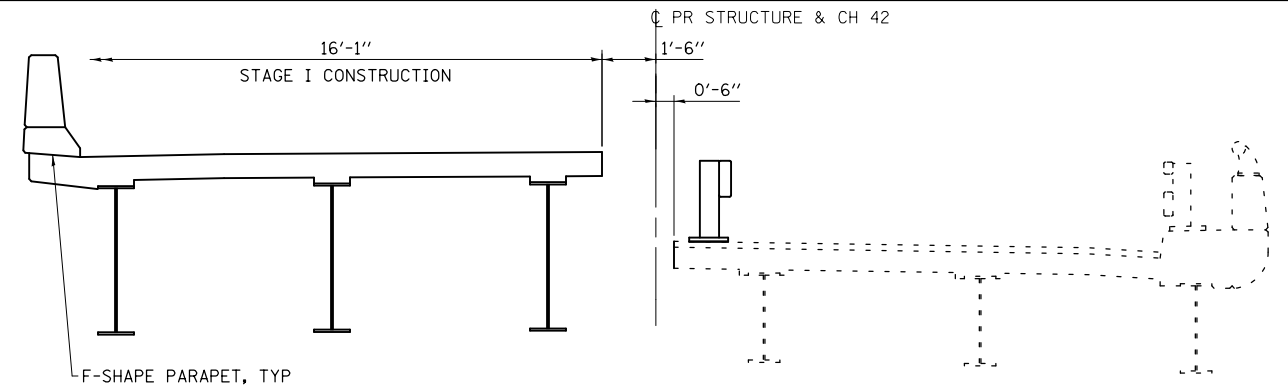
**FAS 824 (CH 42) STAGE CONSTRUCTION DETAILS**

SCALE: AS SHOWN SHEET NO. 2 OF 3 SHEETS STA. 43+00.00 TO STA. 57+00.00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	(41-1)BR-1	JEFFERSON	92	27
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT			CONTRACT NO. 78455	



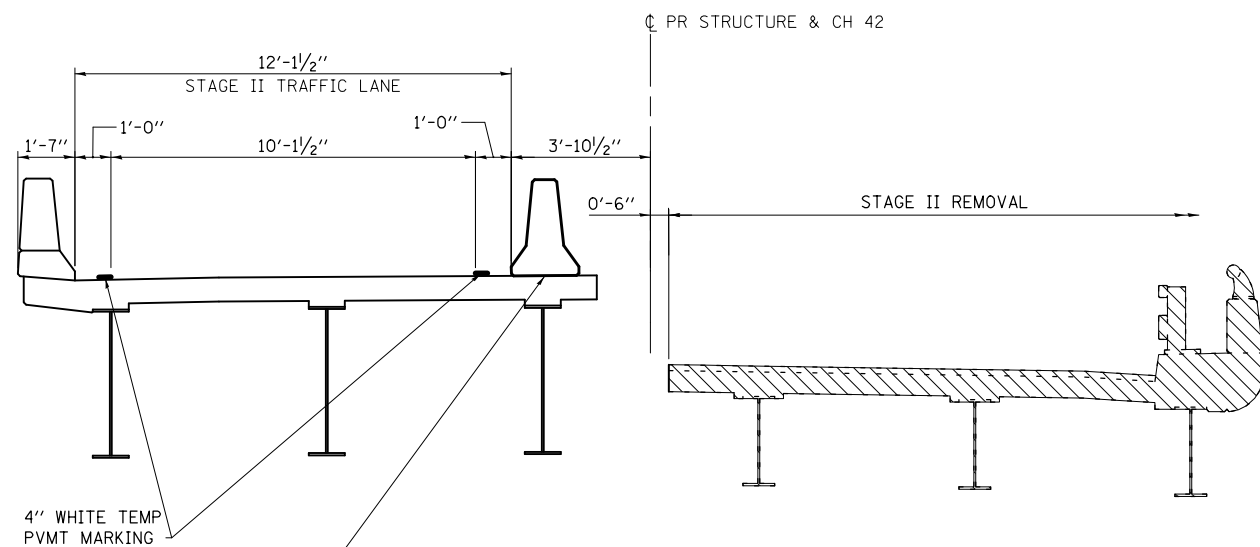
**SECTION A-A REMOVAL**



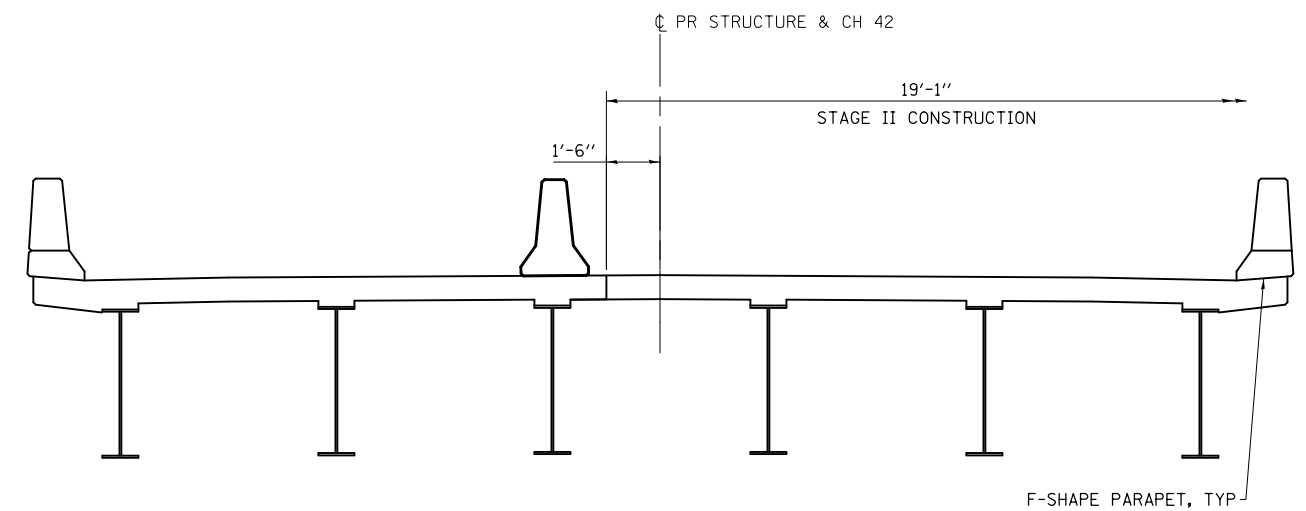
**SECTION A-A CONSTRUCTION**

NOTE: A TEMPORARY SUPPORT SYSTEM WILL BE INSTALLED ON THE SOUTH SIDE OF PIER 2 PRIOR TO STAGE I PIER REMOVAL. SEE STRUCTURE PLANS FOR PIER STAGE CONSTRUCTION DETAILS.

**STAGE I**

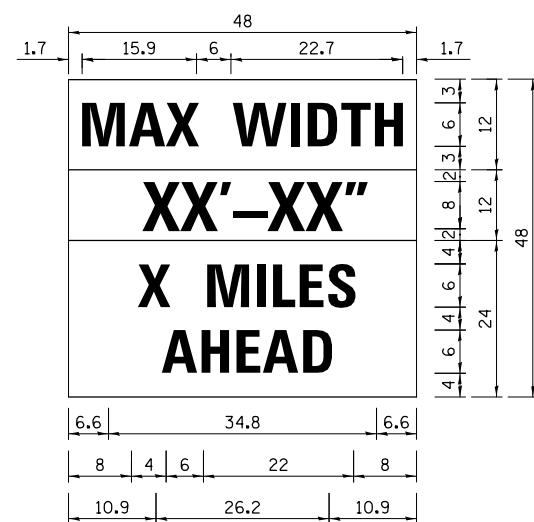


**SECTION B-B REMOVAL**



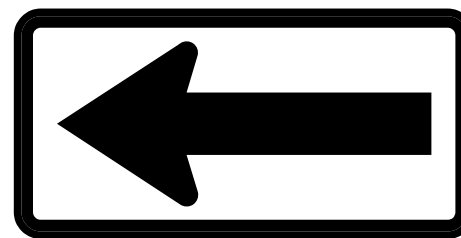
**SECTION B-B CONSTRUCTION**

**STAGE II**



**W12-1103**

W12-1103 (Width is 8D);  
No border, Black on White;  
"MAX WIDTH" D;  
No border, Black on Orange;  
"XX'-XX'' D;  
No border, Black on White;  
"X MILES" D; "AHEAD" D



**W1-6L(0)-4824**

NOTE: THIS SIGN SHALL BE PLACED UNDERNEATH THE WIDTH RESTRICTION SIGNS (W12-1103) THAT ARE PLACED ON THE I-57 EXIT RAMP (2 TOTAL).

NOTE: THIS SIGN SHALL BE LOCATED AS DIRECTED BY THE ENGINEER. ONE SIGN SHALL BE PROVIDED FOR EACH APPROACH TO THE SITE AND ON EACH EXIT RAMP (4 TOTAL).

**WIDTH RESTRICTION SIGN**

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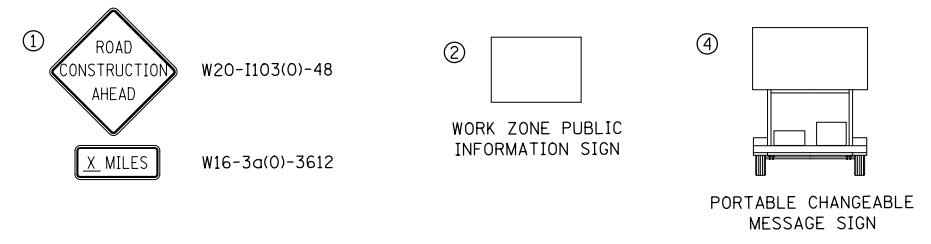
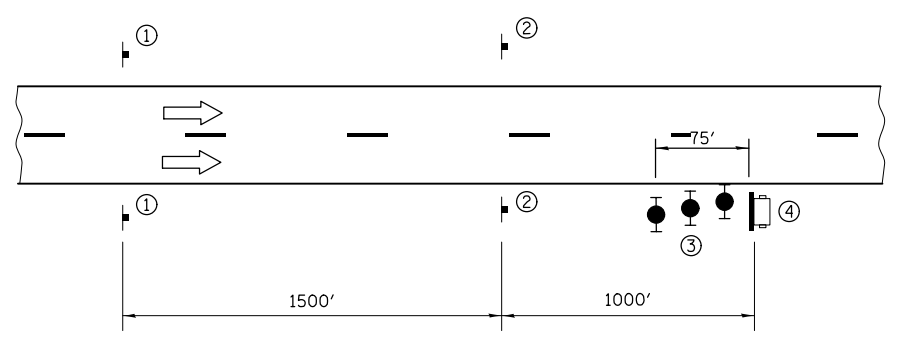
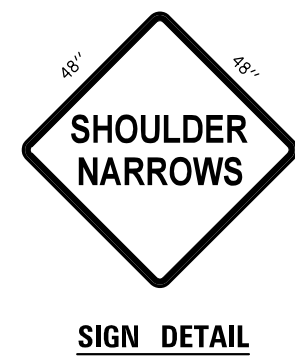
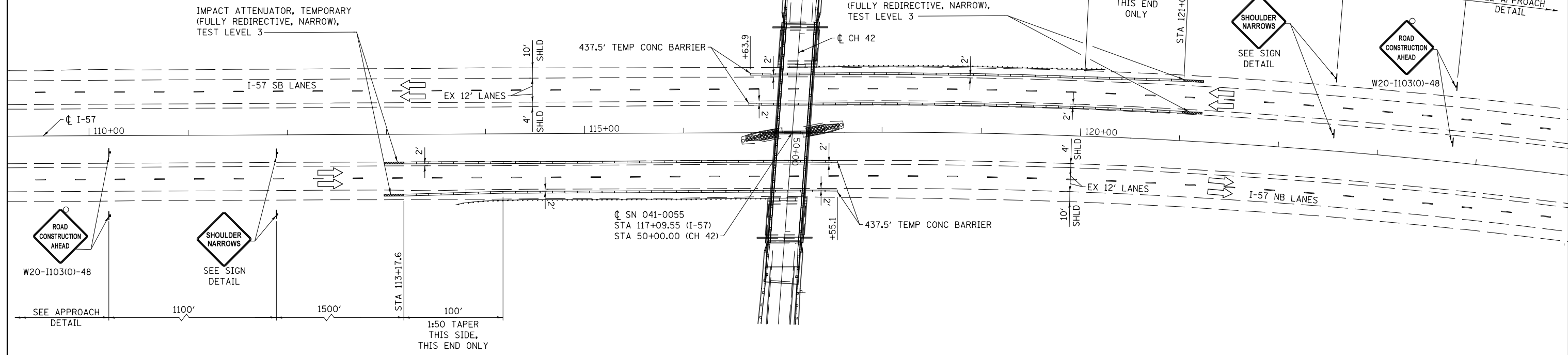
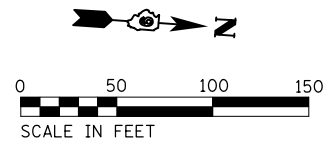
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ESCA PROJECT NO. 1295.02	DRAWN - KJK	REVISED -
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PLOT DATE = 10/3/2018 7:26:54 AM	DATE - 06/18	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**




**FAS 824 (CH 42) STAGE CONSTRUCTION DETAILS**

SCALE: NONE SHEET NO. 3 OF 3 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	(41-1)BR-1	JEFFERSON	92	28
CONTRACT NO. 78455				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				



**LEGEND**

-  PORTABLE CHANGEABLE MESSAGE SIGN
-  SIGN
-  TYPE II BARRICADE, DRUM, OR VERTICAL BARRICADE WITH MONODIRECTIONAL FLASHING LIGHT

**GENERAL NOTES**

1. ALL TRAFFIC SIGNS SHALL BE POST MOUNTED.
2. COORDINATE LOCATION OF SIGNS WITH FINAL WORK AS DIRECTED BY THE ENGINEER.
3. ONE TYPE A LOW INTENSITY FLASHING LIGHT SHALL BE INSTALLED ABOVE EACH OF THE ROAD CONSTRUCTION AHEAD WARNING SIGNS.
4. ALL TRAFFIC CONTROL DEVICES SHOWN SHALL BE FURNISHED, ERECTED & MAINTAINED BY THE CONTRACTOR.
5. THE COST FOR TRAFFIC CONTROL SHOWN ON THIS SHEET WILL NOT BE PAID FOR SEPARATELY BUT WILL BE INCLUDED IN TRAFFIC CONTROL & PROTECTION, (SPECIAL).
6. ATTENUATOR BASES, WHEN REQUIRED BY THE MANUFACTURER, WILL NOT BE PAID FOR SEPARATELY BUT SHALL BE CONSIDERED AS INCLUDED IN THE COST OF THE TEMPORARY IMPACT ATTENUATORS.

**APPROACH DETAIL**

- ① THE ROAD CONSTRUCTION AHEAD SIGN SHALL BE LOCATED 3 TO 5 MILES IN ADVANCE OF THE PROJECT LIMITS.
- ② THE MESSAGE AND SIZE OF THE WORK ZONE PUBLIC INFORMATION SIGN SHALL BE AS SPECIFIED BY THE DEPARTMENT.
- ③ THREE TYPE II BARRICADES, DRUMS, OR VERTICAL BARRICADES AT 25' CENTERS.
- ④ THE MESSAGE BOARD SHALL BE USED TO DISPLAY STATUS OF LANES WITHIN THE PROJECT. THE PRIMARY MESSAGES SHALL BE:  
"SHOULDER NARROWS" / " X MILES AHEAD" / "ALL LANES OPEN"

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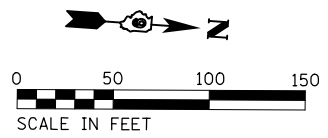
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PLOT DATE = 10/3/2018 7:26:58 AM	DATE - 09/18	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**I-57 SHOULDER CLOSURE**

SCALE: AS SHOWN SHEET NO. 1 OF 1 SHEETS STA. 109+83.00 TO STA. 124+94.00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	(41-1)BR-1	JEFFERSON	92	29
CONTRACT NO. 78455				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

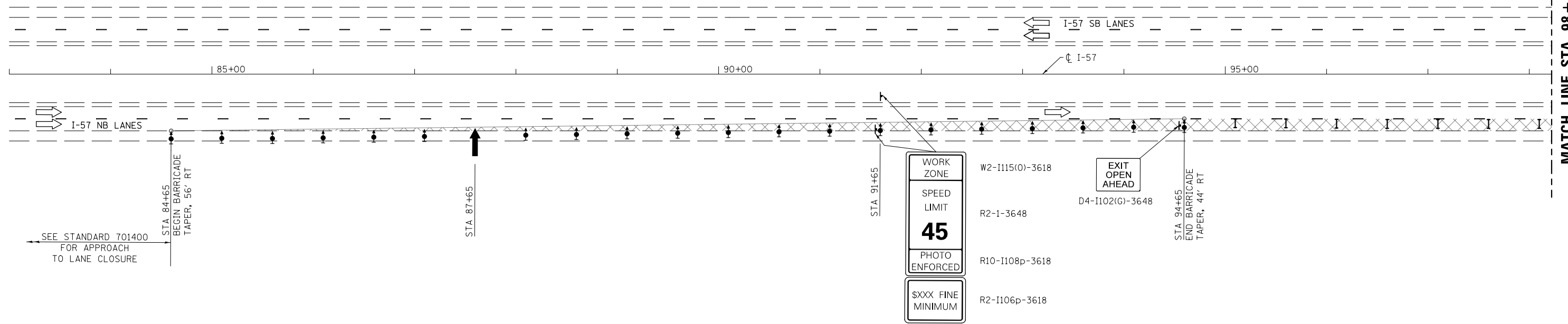


**LEGEND**

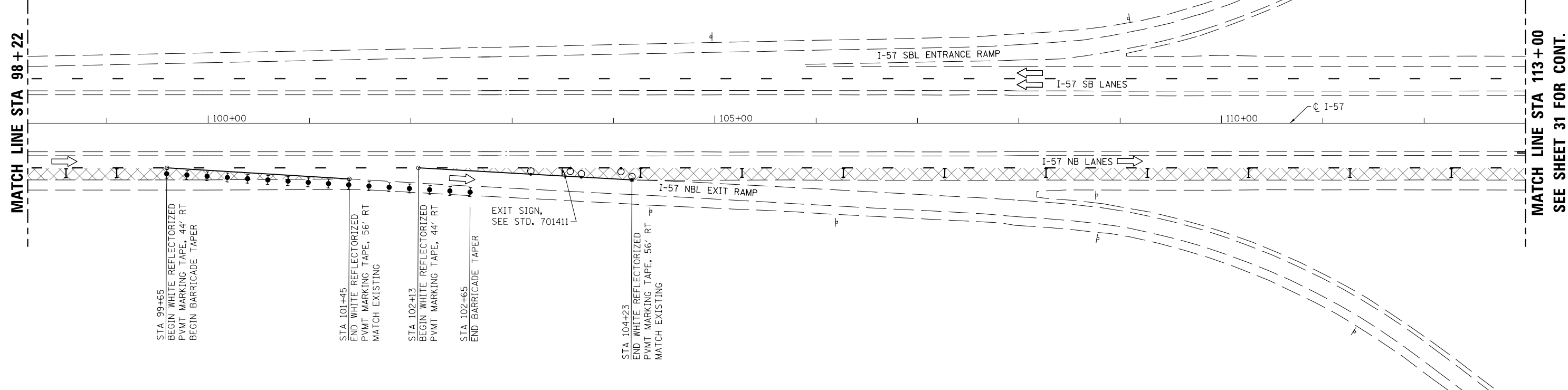
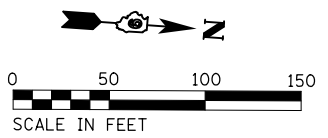
- TYPE II BARRICADE OR DRUM WITH STEADY BURN MONODIRECTIONAL LIGHT
- DRUM WITH STEADY BURN MONODIRECTIONAL LIGHT
- ⊥ SIGN
- ▮ TYPE II BARRICADE, DRUM, OR VERTICAL BARRICADE
- ▨ LANE CLOSURE
- ↑ ARROW BOARD
- ↓ DIRECTION INDICATOR BARRICADE WITH STEADY BURN MONODIRECTIONAL LIGHT
- ▨ WORK AREA

**GENERAL NOTES**

1. ALL FOUR LANES OF I-57 WILL REMAIN OPEN FROM 7 AM TO 7 PM EVERYDAY WITH SINGLE LANE CLOSURES ALLOWED MONDAY THROUGH THURSDAY FROM 7 PM TO 7 AM (NBL) AND 8 PM TO 7 AM (SBL).
2. SEE STANDARD 701401 AND SPECIAL PROVISIONS FOR ADDITIONAL TRAFFIC CONTROL REQUIREMENTS AND DETAILS.
3. SEE STANDARD 701411, APPLICATION NO. 4 FOR ADDITIONAL RAMP TRAFFIC CONTROL.
4. ALL TRAFFIC CONTROL SHOWN FOR THE I-57 DRIVING LANE CLOSURE WILL NOT BE PAID FOR SEPARATELY BUT WILL BE INCLUDED IN TRAFFIC CONTROL AND PROTECTION, (SPECIAL).
5. TEMPORARY CONCRETE BARRIER ON THE PASSING LANE SHOULDER SHALL REMAIN IN PLACE FROM THE I-57 SHOULDER CLOSURE. SEE SHEET 29 FOR DETAILS.



MATCH LINE STA 98 + 22



MATCH LINE STA 113 + 00  
SEE SHEET 31 FOR CONT.

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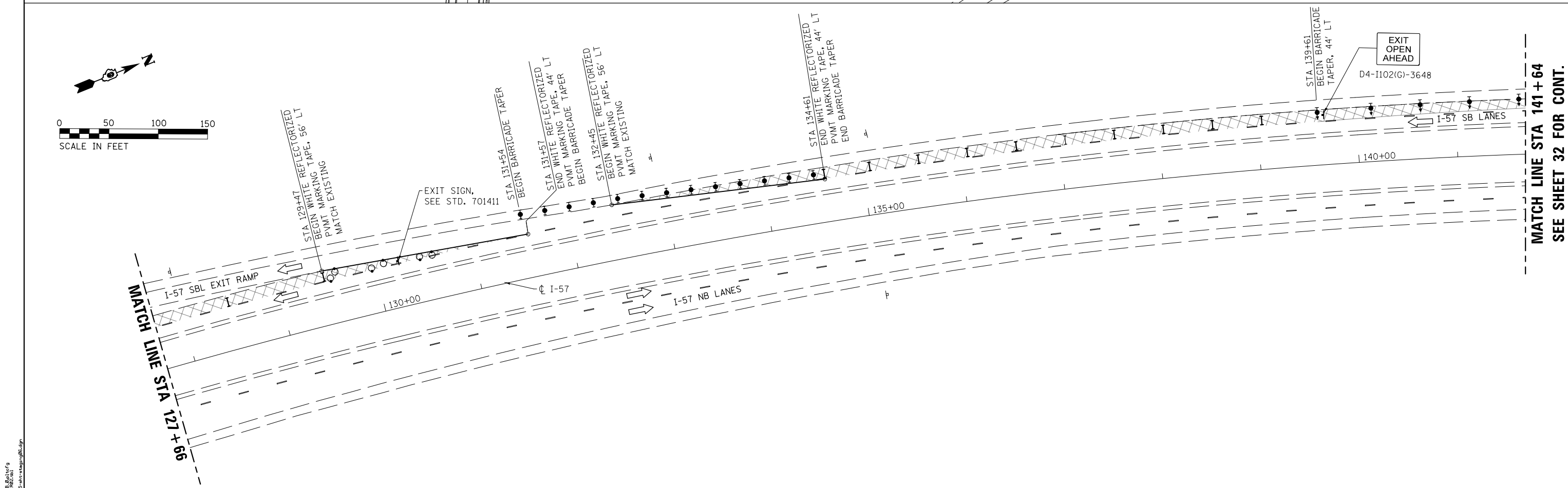
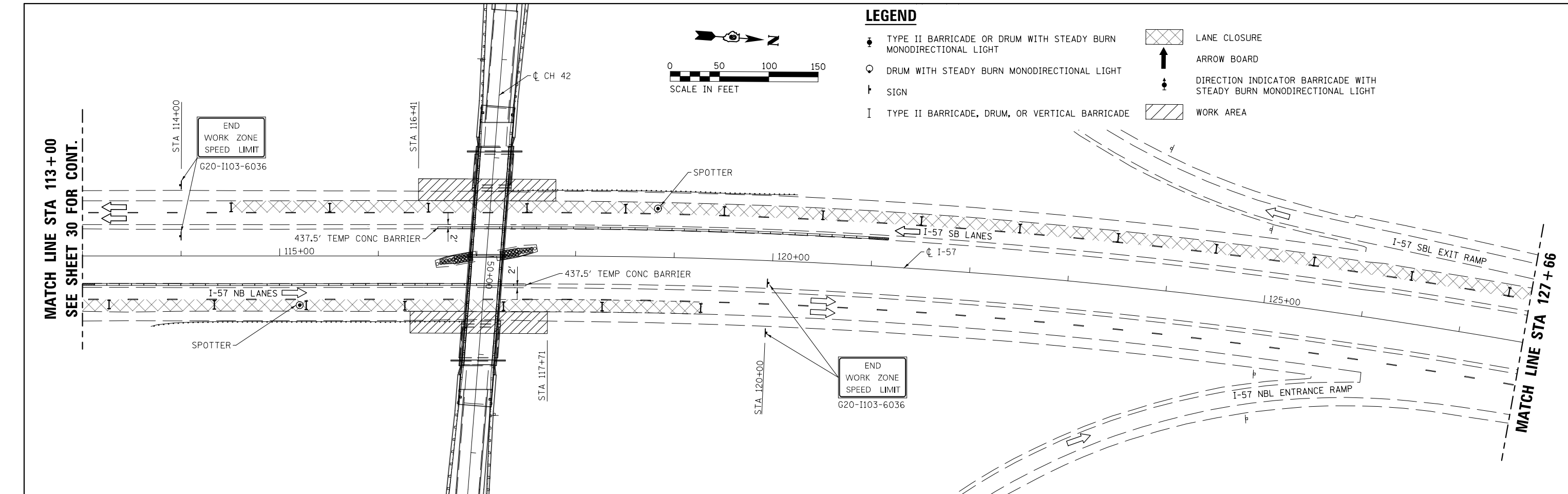
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PLOT DATE = 10/3/2018 7:26:59 AM	DATE - 07/18	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**I-57 DRIVING LANE CLOSURE**

SCALE: 1"=50'    SHEET NO. 1 OF 3 SHEETS    STA. 83+00.00 TO STA. 113+00.00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	(41-1)BR-1	JEFFERSON	92	30
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT			CONTRACT NO. 78455	



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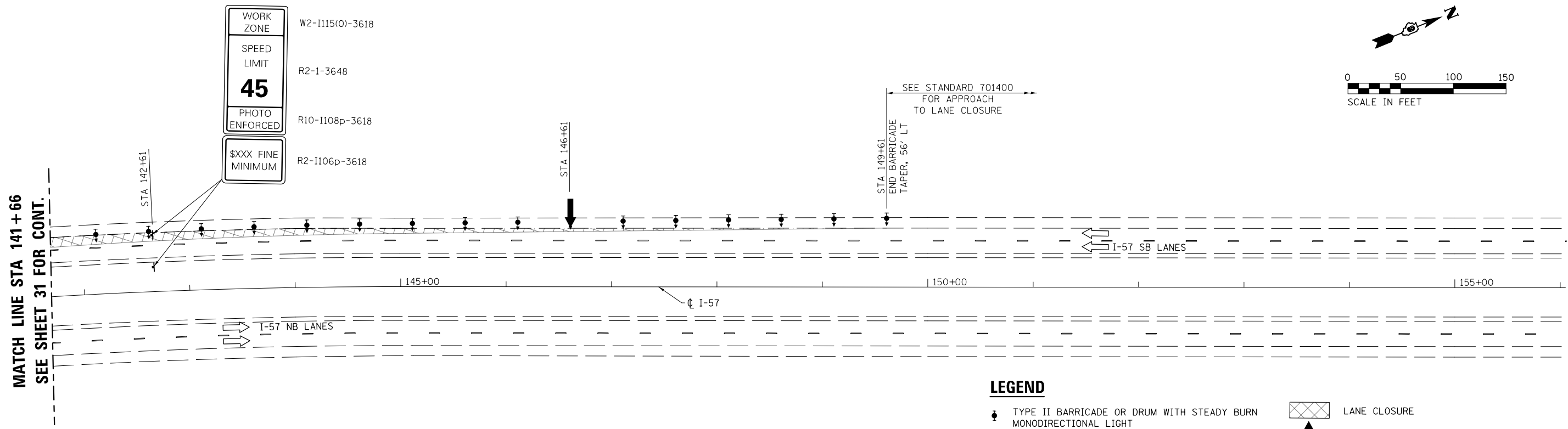
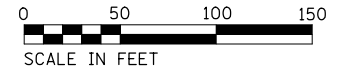
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PLOT DATE = 10/3/2018 7:27:00 AM	DATE - 07/18	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**I-57 DRIVING LANE CLOSURE**

SCALE: 1"=50'    SHEET NO. 2 OF 3 SHEETS    STA. 113+00.00 TO STA. 140+64.00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	(41-1)BR-1	JEFFERSON	92	31
CONTRACT NO. 78455				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				



MATCH LINE STA 141 + 66  
SEE SHEET 31 FOR CONT.

**LEGEND**

- ◆ TYPE II BARRICADE OR DRUM WITH STEADY BURN MONODIRECTIONAL LIGHT
- DRUM WITH STEADY BURN MONODIRECTIONAL LIGHT
- † SIGN
- ▮ TYPE II BARRICADE, DRUM, OR VERTICAL BARRICADE
- ▨ LANE CLOSURE
- ↑ ARROW BOARD
- ◆ DIRECTION INDICATOR BARRICADE WITH STEADY BURN MONODIRECTIONAL LIGHT
- ▨ WORK AREA

PRINT DRIVER = L:\05-EB\Bates\9  
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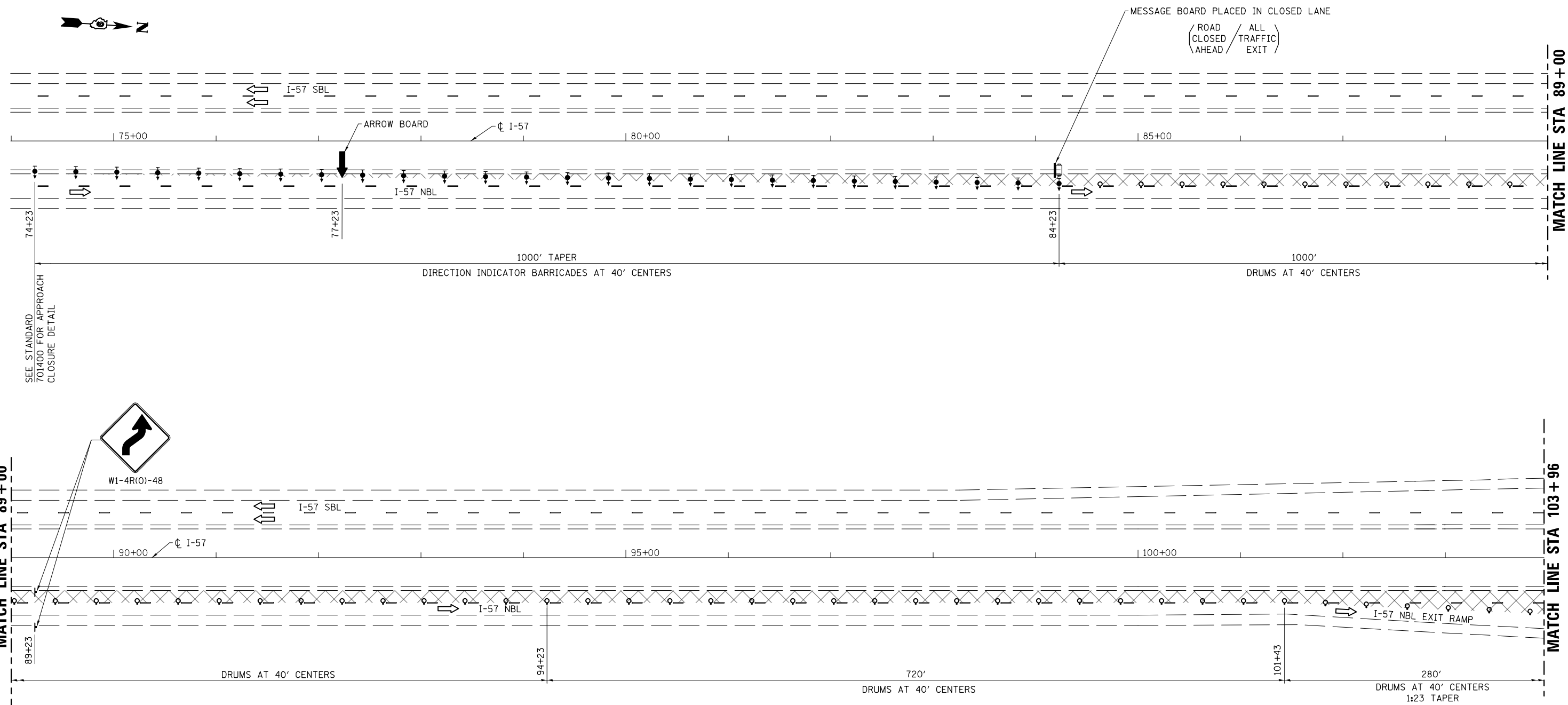
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**I-57 DRIVING LANE CLOSURE**

SCALE: 1"=50'    SHEET NO. 3 OF 3 SHEETS    STA. 141+66.00 TO STA. 156+00.00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	(41-1)BR-1	JEFFERSON	92	32
CONTRACT NO. 78455				
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		





MATCH LINE STA 89+00

MATCH LINE STA 89+00

MATCH LINE STA 103+96

SEE SHEET 34 FOR CONT.

**GENERAL NOTES**

1. THE TRAFFIC CONTROL PLAN SHOWN IS FOR THE NORTHBOUND LANES. THE TRAFFIC CONTROL FOR THE SOUTHBOUND LANES IS SIMILAR.
2. ALL FOUR LANES OF I-57 WILL REMAIN OPEN FROM 7 AM TO 7 PM EVERYDAY WITH SINGLE LANE CLOSURES ALLOWED MONDAY THROUGH THURSDAY FROM 7 PM TO 7 AM (NBL) AND 8 PM TO 7 AM (SBL).
3. SEE HIGHWAY STANDARDS 701400 AND 701401 FOR APPROACH TRAFFIC CONTROL AND THE SPECIAL PROVISIONS FOR ADDITIONAL TRAFFIC CONTROL REQUIREMENTS.
4. TRAFFIC CONTROL FOR I-57 TEMPORARY CLOSURE WILL NOT BE PAID FOR SEPARATELY BUT IS INCLUDED IN THE COST OF TRAFFIC CONTROL AND PROTECTION, (SPECIAL).
5. THE STAGE CONSTRUCTION TRAFFIC CONTROL DEVICES WILL REMAIN IN PLACE ON CH 42, WITH THE SIGNALS TURNED OFF, THE TRAFFIC SIGNAL AHEAD SIGN PANELS SHALL BE REPLACED WITH FLAGGER AHEAD SIGN PANELS.

**I-57 NORTHBOUND LANES CLOSURE PLAN**

**LEGEND**

- DIRECTION INDICATOR BARRICADE WITH LIGHT
- TYPE II BARRICADE OR DRUM WITH LIGHT
- LIGHTED FLAGGER STATION WITH TRAFFIC CONTROL SIGN
- TYPE III BARRICADE WITH FLASHERS
- PORTABLE CHANGEABLE MESSAGE SIGN
- LANE CLOSURE

PRINT DRIVER = L:\05-2018\1295\1295.dwg  
 PLOT DATE = 10/3/2018 7:27:01 AM  
 SCALE: 1"=50'



USER NAME = kjk	DESIGNED - KJK	REVISED -
ESCA PROJECT NO. 1295.02	DRAWN - KJK	REVISED -
PLOT SCALE = 0.1667' / 1"	CHECKED - ELH	REVISED -
PLOT DATE = 10/3/2018 7:27:01 AM	DATE - 07/18	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**I-57 TEMPORARY CLOSURE**  
 SCALE: 1"=50' SHEET NO. 1 OF 2 SHEETS STA. 74+00.00 TO STA. 103+96.00

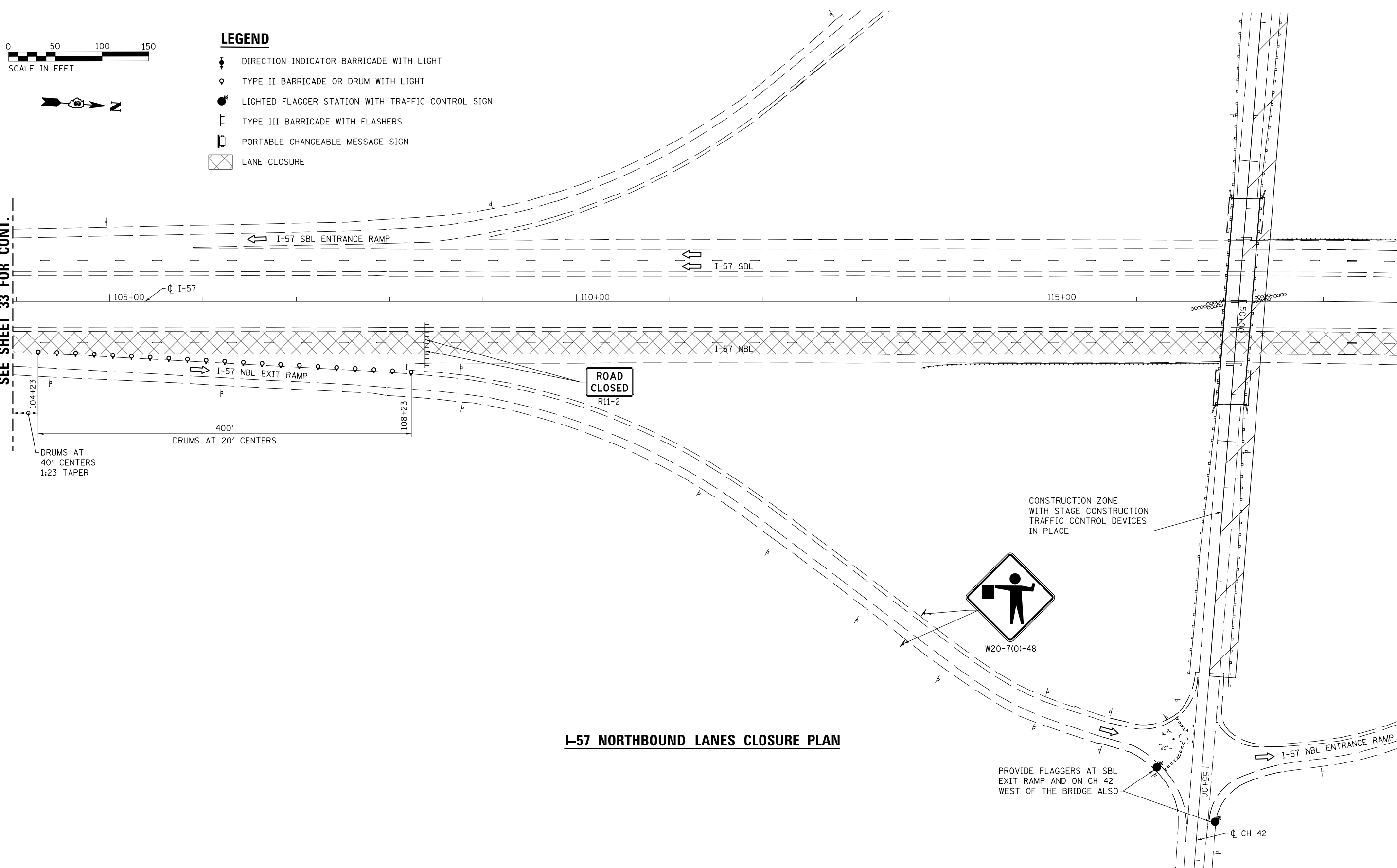
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	(41-1)BR-1	JEFFERSON	92	33
FED. ROAD DIST. NO.			ILLINOIS FED. AID PROJECT	
			CONTRACT NO. 78455	



**LEGEND**

- DIRECTION INDICATOR BARRICADE WITH LIGHT
- TYPE II BARRICADE OR DRUM WITH LIGHT
- LIGHTED FLAGGER STATION WITH TRAFFIC CONTROL SIGN
- TYPE III BARRICADE WITH FLASHERS
- PORTABLE CHANGEABLE MESSAGE SIGN
- LANE CLOSURE

MATCH LINE STA 103+96  
SEE SHEET 33 FOR CONT.



**I-57 NORTHBOUND LANES CLOSURE PLAN**



W20-7(O)-48

PROVIDE FLAGGERS AT SBL  
EXIT RAMP AND ON CH 42  
WEST OF THE BRIDGE ALSO

CONSTRUCTION ZONE  
WITH STAGE CONSTRUCTION  
TRAFFIC CONTROL DEVICES  
IN PLACE

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

I-57 TEMPORARY CLOSURE

SCALE: 1"=50' SHEET NO. 2 OF 2 SHEETS STA. 103+96.00 TO STA. 119+00.00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	(41-1)BR-1	JEFFERSON	92	34
CONTRACT NO. 78455				
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		




PRINT DRIVER = L:\05-2018\103+96\103+96.dwg  
 PLOT DATE = 10/3/2018 7:27:02 AM  
 PLOT SCALE = 0.1667' / 1"



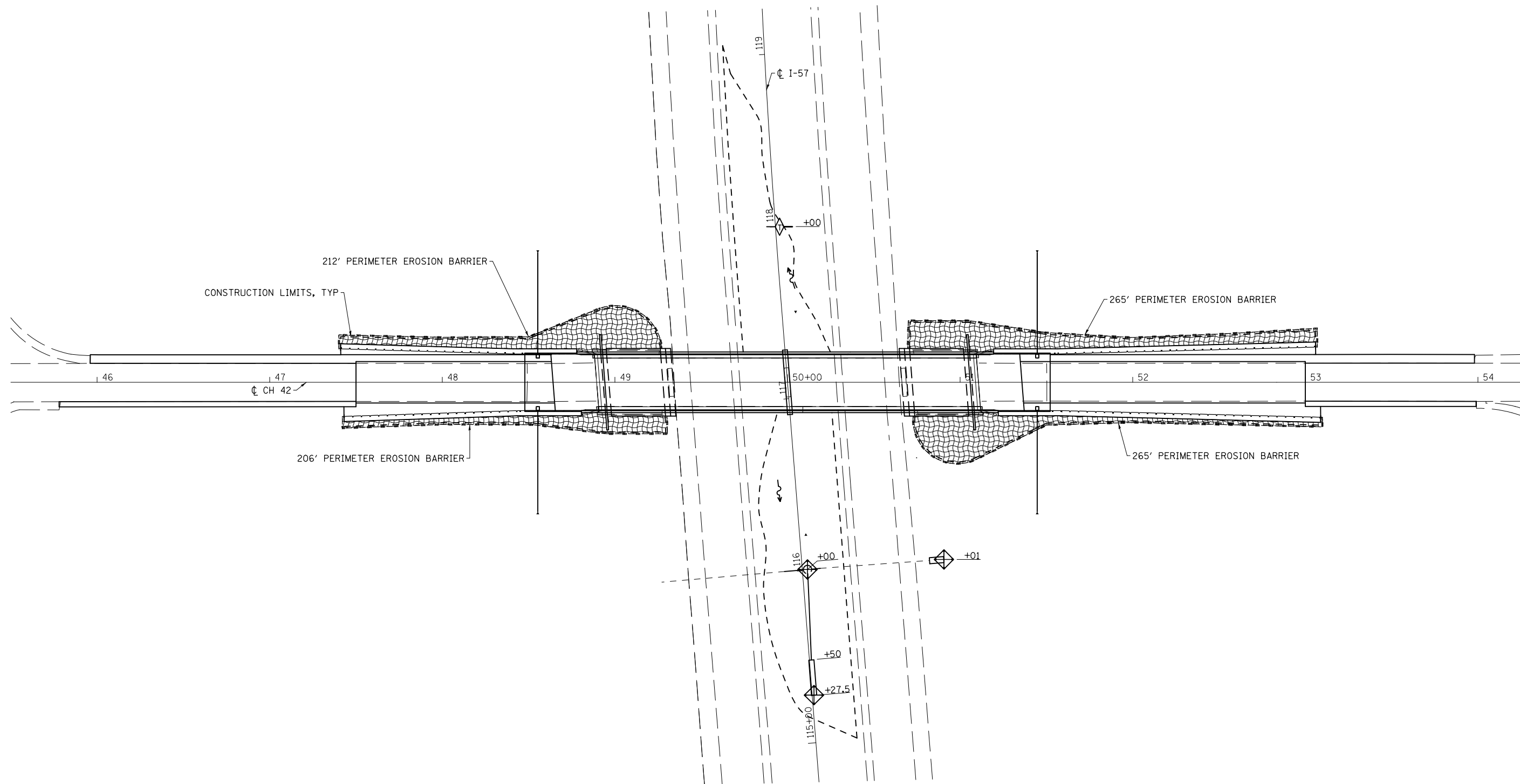
USER NAME = kjk	DESIGNED - KJK	REVISED -
ESCA PROJECT NO. 1295.02	DRAWN - KJK	REVISED -
PLOT DATE = 10/3/2018	CHECKED - ELH	REVISED -
7:27:02 AM	DATE - 07/18	REVISED -



**LEGEND**

- PERIMETER EROSION BARRIER
-  EROSION CONTROL BLANKET
- - - CONSTRUCTION LIMITS
-  INLET PIPE AND PROTECTION
-  TEMPORARY DITCH CHECK

THE PERIMETER EROSION BARRIER WILL BE PLACED 1' OUTSIDE OF THE CONSTRUCTION LIMITS.



PRINT DRIVER = L:\05-2018\1295\02\1295.02.dwg  
 PLOT SCALE = 0:2 '1" / 1" / 1" / 1"  
 PLOT DATE = 10/3/2018 7:27:05 AM



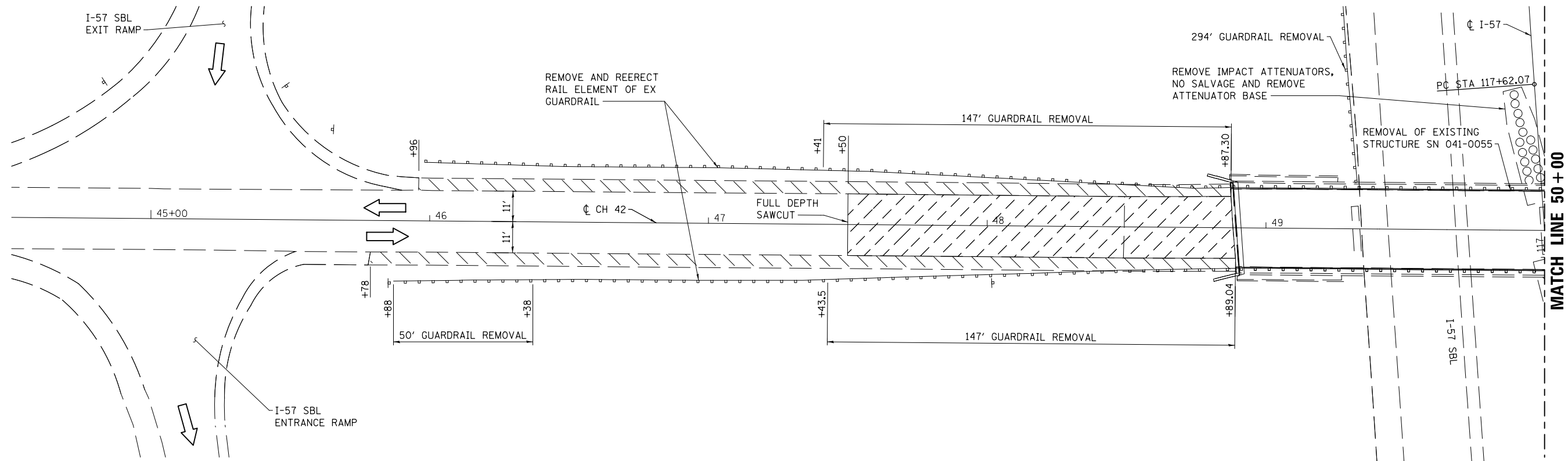
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ESCA PROJECT NO. 1295.02	DRAWN - KJK	REVISED -
PLOT SCALE = 0:2 '1" / 1" / 1" / 1"	CHECKED - ELH	REVISED -
PLOT DATE = 10/3/2018 7:27:05 AM	DATE - 07/18	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

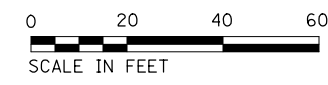
**EROSION CONTROL PLAN**

SCALE: 1"=30' SHEET NO. 1 OF 1 SHEETS STA. 45+50.00 TO STA. 54+25.00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	(41-1)BR-1	JEFFERSON	92	35
FED. ROAD DIST. NO.			ILLINOIS FED. AID PROJECT	
			CONTRACT NO. 78455	

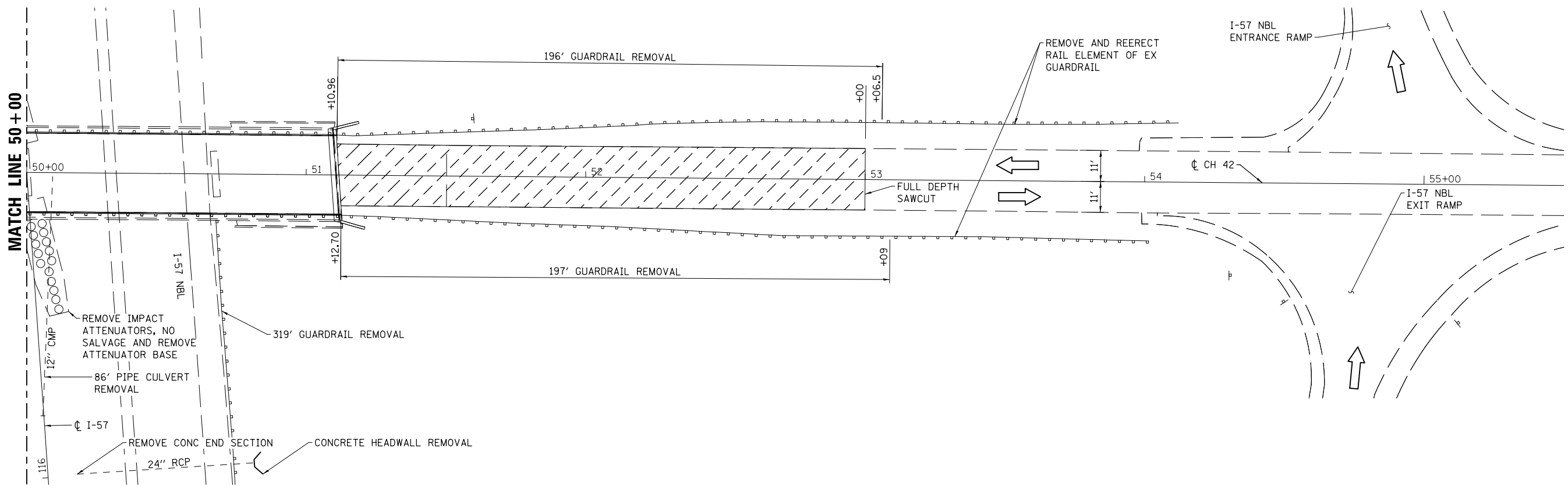


MATCH LINE 50 + 00



**LEGEND**

	PAVEMENT REMOVAL
	PAVED SHOULDER REMOVAL



PRINT DRIVER = L:\05\Bartlett\9  
 SCALE NAME = PLOT  
 SCALE NAME = PLOT  
 SCALE NAME = PLOT



USER NAME = kjk  
 ESCA PROJECT NO. 1295.02  
 PLOT SCALE = 0.2" = 1' @ 11"  
 PLOT DATE = 10/3/2018 7:27:08 AM

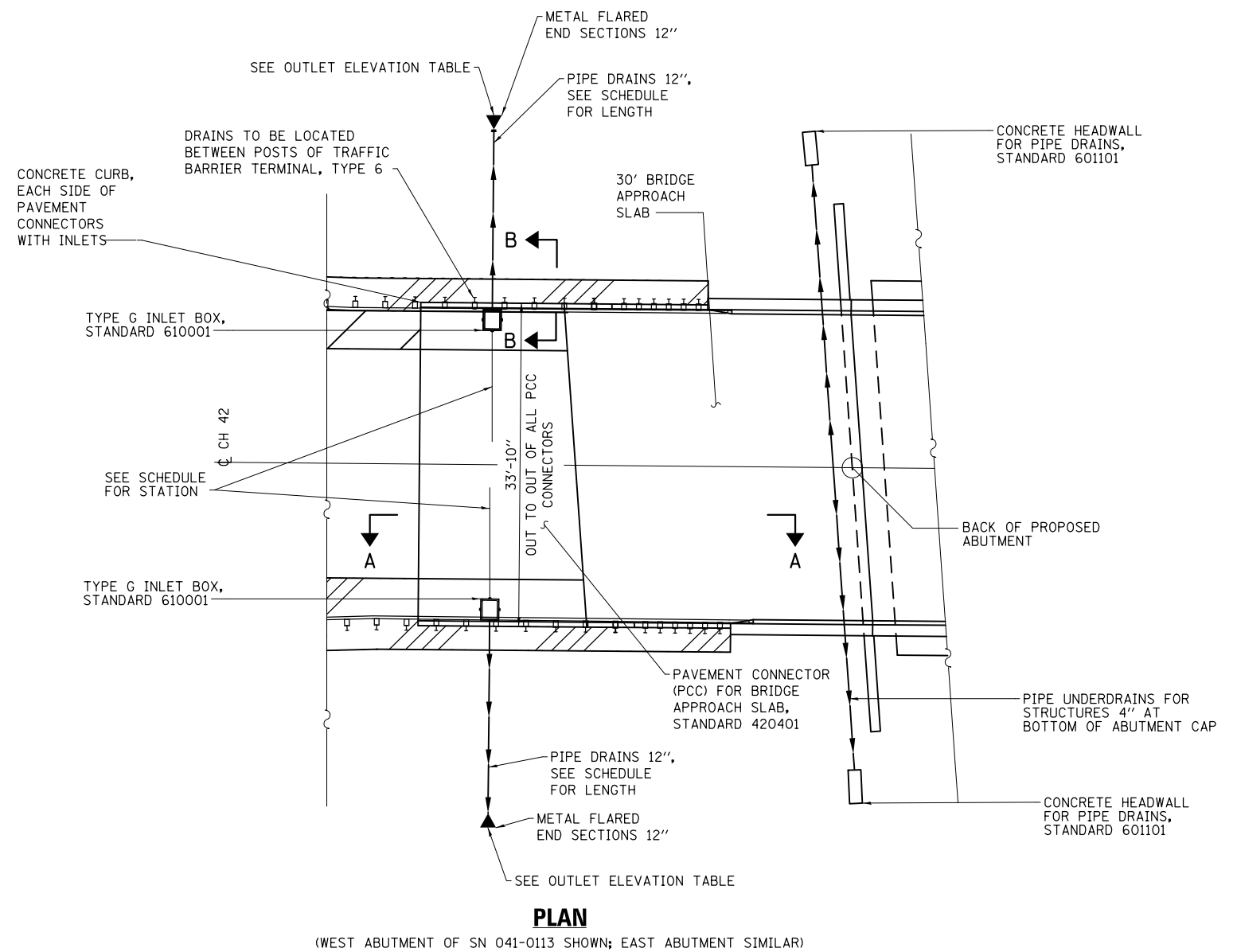
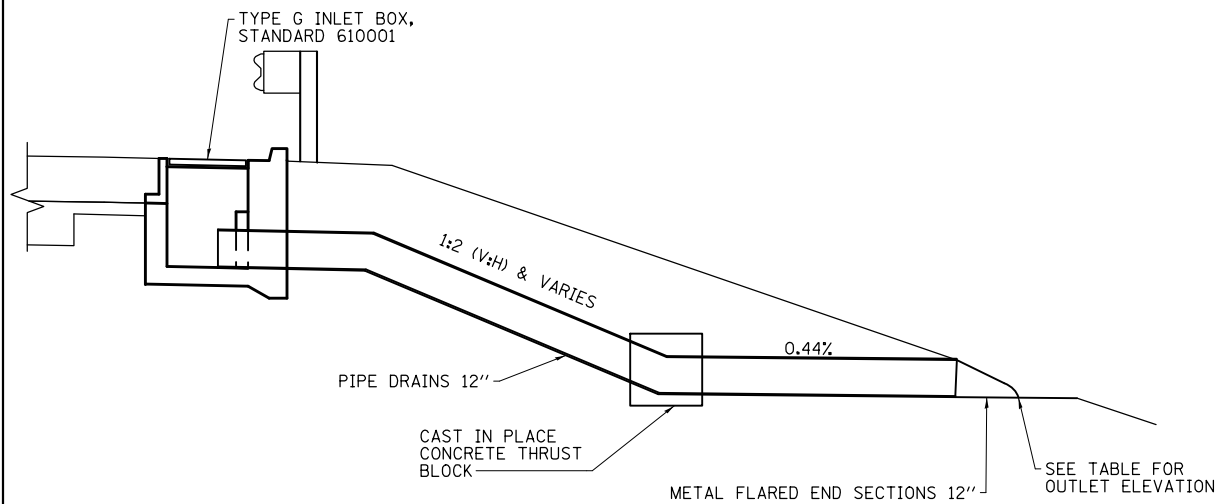
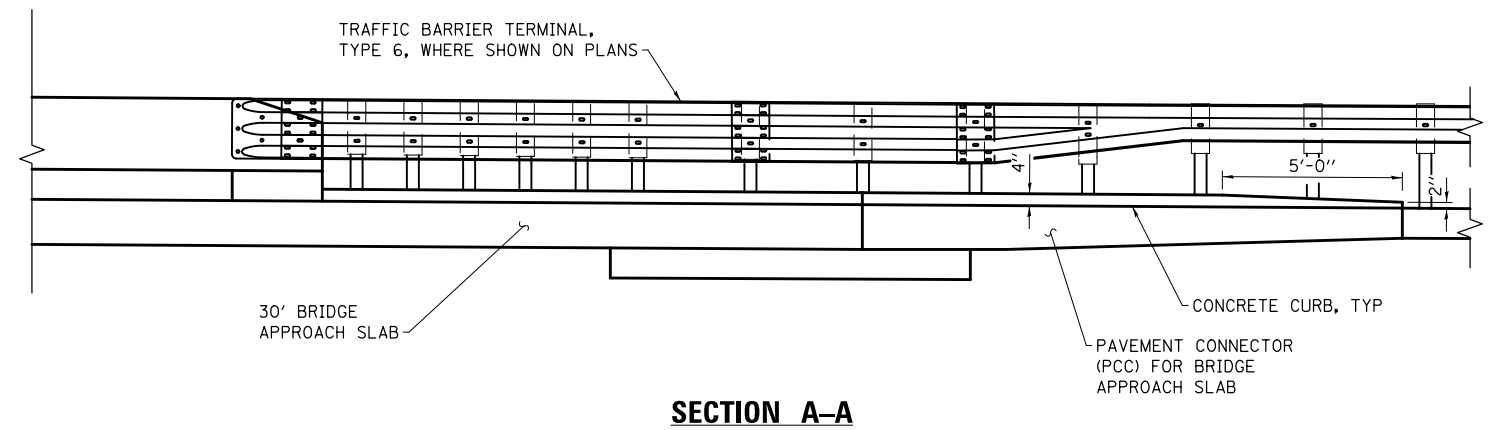
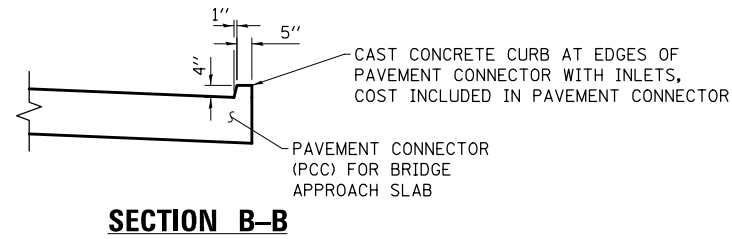
DESIGNED - KJK	REVISED -
DRAWN - KJK	REVISED -
CHECKED - ELH	REVISED -
DATE - 1/2	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**REMOVAL PLANS**

SCALE: 1"=20'    SHEET NO. 1 OF 1 SHEETS    STA. 44+50.00 TO STA. 55+50.00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	(41-1)BR-1	JEFFERSON	92	36
CONTRACT NO. 78455				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				



**SECTION AT TYPE G INLET BOX**

**PCC PAVEMENT CONNECTOR DRAINAGE SCHEDULE**

LOCATION			INLET BOX, STD 610001 TYPE G	CONCRETE THRUST BLOCKS	PIPE DRAINS 12"	METAL FLARED END SECTIONS 12"
STATION	LANE	OFFSET	EACH	EACH	FOOT	EACH
48+55.07	WBL	LEFT	1	1	65	1
48+54.44	EBL	RIGHT	1	1	65	1
51+45.58	WBL	LEFT	1	1	65	1
51+44.93	EBL	RIGHT	1	1	65	1
TOTALS			4	4	260	4

**OUTLET ELEVATION TABLE**

LOCATION			OUTLET ELEVATION
STATION	LANE	OFFSET	
48+55.07	WBL	LEFT	416.52
48+54.44	EBL	RIGHT	417.53
51+45.58	WBL	LEFT	418.93
51+44.93	EBL	RIGHT	419.54

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**PAVEMENT CONNECTOR DETAILS**

SCALE: NONE SHEET NO. 1 OF 1 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	(41-1)BR-1	JEFFERSON	92	37

CONTRACT NO. 78455

FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT

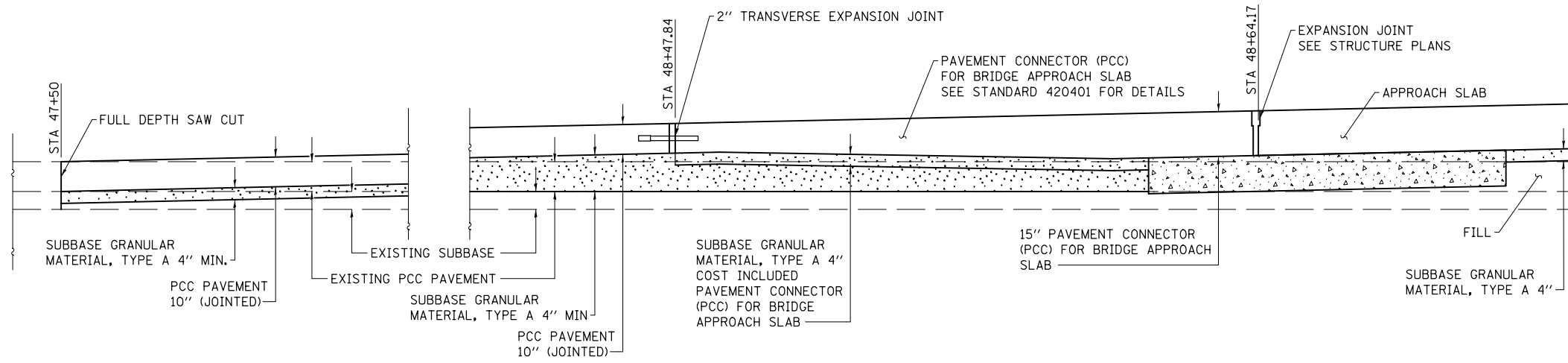
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SCALE NAME = 1/8"=1'-0"  
PLOT DATE = 10/3/2018



USER NAME = kjk  
ESCA PROJECT NO. 1295.02  
PLOT SCALE = 0.1667' / 1"  
PLOT DATE = 10/3/2018



DESIGNED - KJK  
DRAWN - KJK  
CHECKED - ELH  
DATE - 06/18

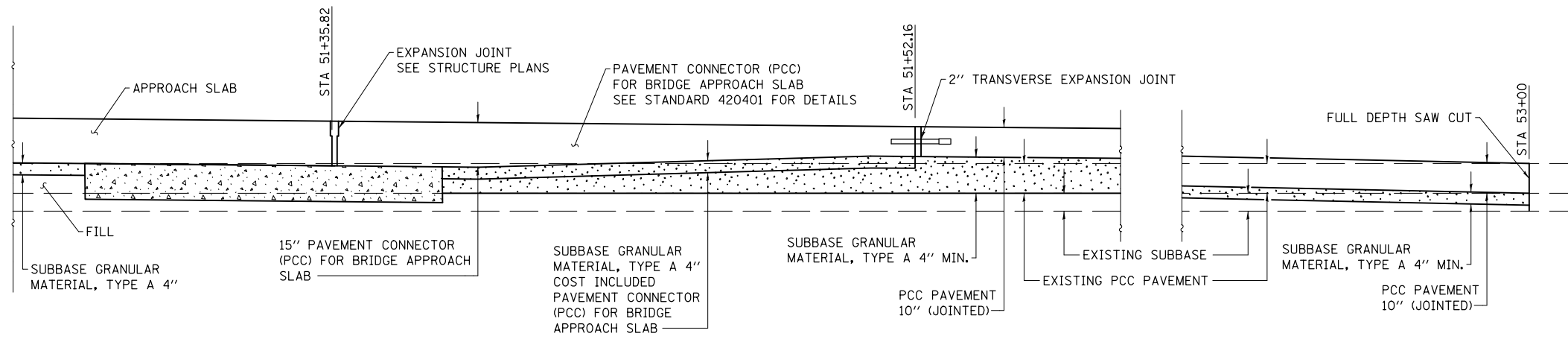
REVISED -  
REVISED -  
REVISED -  
REVISED -



**LONGITUDINAL SECTION**  
FAS 824 (CH 42) STA 47+50 TO STA 48+64.17

**LEGEND**

-  SUBBASE GRANULAR MATERIAL, TYPE A
-  APPROACH FOOTING



**LONGITUDINAL SECTION**  
FAS 824 (CH 42) STA 51+35.82 TO STA 53+00

PRINT DRIVER = L:\E-Books\laser9  
 SCALE NAME = PLOT  
 FILE NAME = C:\ESCA\work\contract2.dwg



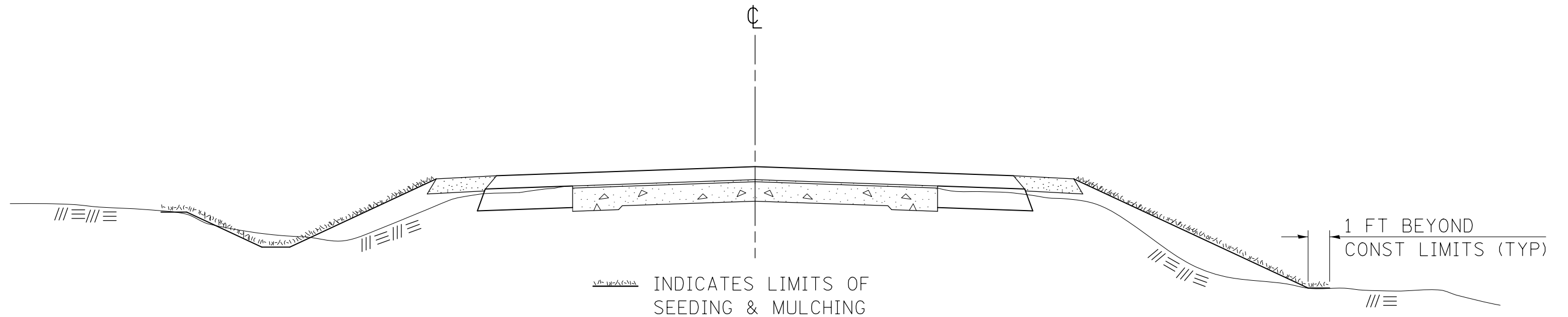
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ESCA PROJECT NO. 1295.02	DRAWN - KJK	REVISED -
PLOT SCALE = 0.1667' / 1"	CHECKED - ELH	REVISED -
PLOT DATE = 10/3/2018	DATE - 07/18	REVISED -

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

<b>PAVEMENT TRANSITION DETAILS</b>	
SCALE: NONE	SHEET NO. 1 OF 1 SHEETS
STA. 47+50.00	TO STA. 53+00.00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	(41-1)BR-1	JEFFERSON	92	38
CONTRACT NO. 78455				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

# SEEDING & MULCHING



## GENERAL NOTES

IN GENERAL, ALL EARTH SURFACES DISTURBED DURING CONSTRUCTION OPERATIONS SHALL BE SEEDED AND MULCHED UPON COMPLETION OF ALL GRADING OPERATIONS.

FERTILIZER NUTRIENTS AND LIMESTONE SHALL BE APPLIED TO ALL SEEDED AREAS.

SECTIONS 250 AND 251 OF THE STANDARD SPECIFICATIONS SHALL GOVERN THIS WORK EXCEPT AS SPECIFIED HEREIN OR AS NOTED IN THE SPECIAL PROVISIONS.

### REVISIONS

REDRAWN	2-15-89
REVISED	8-15-94
REVISED	6-3-99
REVISED	3-27-08

STD. 9-12

PRINT DRIVER = L:\ESB\Bates\p  
 SCALE NAME = PLOT  
 FILE NAME = D:\PROJECTS\1295\1295.dwg



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ESCA PROJECT NO. 1295.02	DRAWN - KJK	REVISED -
PLOT SCALE = 0.1667' / 1" =	CHECKED - ELH	REVISED -
PLOT DATE = 10/3/2018	DATE - 03/18	REVISED -

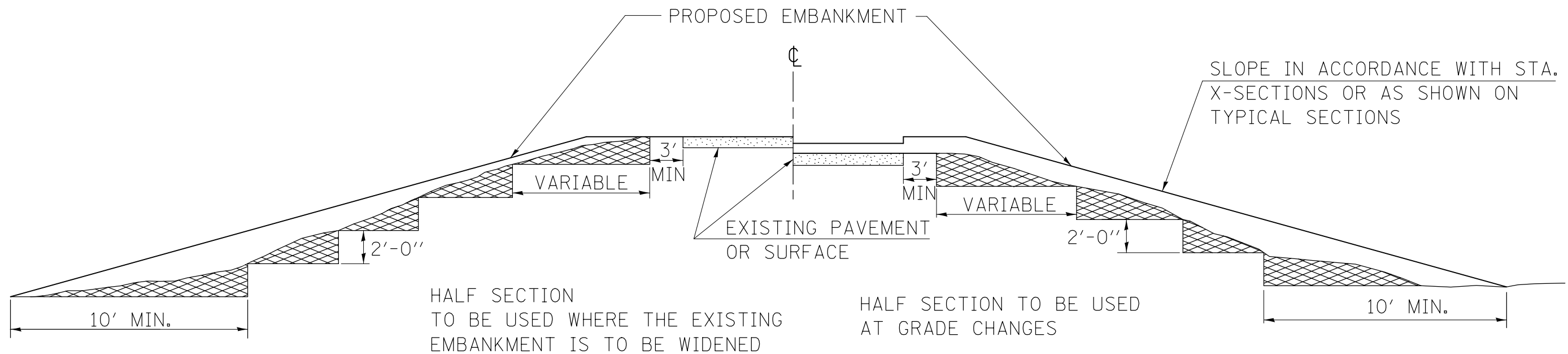
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**SEEDING AND MULCHING DETAILS**

SCALE: NONE    SHEET NO. 1 OF 1 SHEETS    STA.    TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	(41-1)BR-1	JEFFERSON	92	39
CONTRACT NO. 78455				
FED. ROAD DIST. NO.    ILLINOIS FED. AID PROJECT				

# TYPICAL CROSS SECTION SHOWING STEP CONSTRUCTION ON EXISTING FILL



MATERIAL TO BE REMOVED AND REPLACED IN THE EMBANKMENT IN ACCORDANCE WITH ART. 205.04 OF THE STANDARD SPECIFICATION. COST TO BE INCLUDED IN THE VARIOUS ITEMS OF EXCAVATION AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED BECAUSE OF THIS WORK.

REVISIONS	
REDRAWN	2-15-89
REVISED	8-15-94
CHECKED	6-3-99
RESIZED	5-7-08

STD. 9-16

PRINT DRIVER = L:\E-Books\1019\1019.dwg  
 SCALE NAME = PLOT  
 PLOT DATE = 10/3/2018



USER NAME = kjk	DESIGNED - KJK	REVISED -
ESCA PROJECT NO. 1295.02	DRAWN - KJK	REVISED -
PLOT SCALE = 0.1667' / 1" =	CHECKED - ELH	REVISED -
PLOT DATE = 10/3/2018	DATE - 03/18	REVISED -

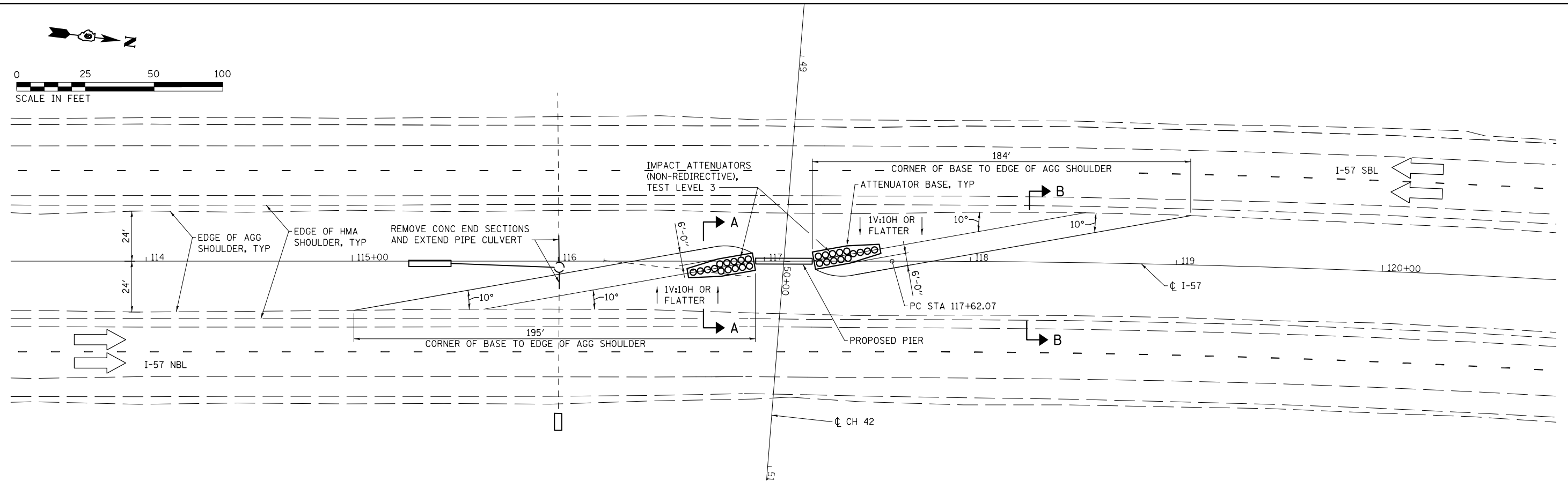
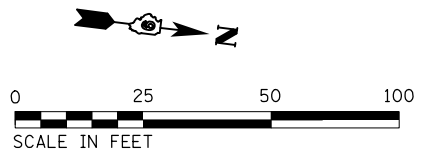
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**STEP CONSTRUCTION ON EXISTING FILL DETAILS**

SCALE: NONE    SHEET NO. 1 OF 1 SHEETS    STA.    TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	(41-1)BR-1	JEFFERSON	92	40
FED. ROAD DIST. NO.			ILLINOIS FED. AID PROJECT	
CONTRACT NO. 78455				

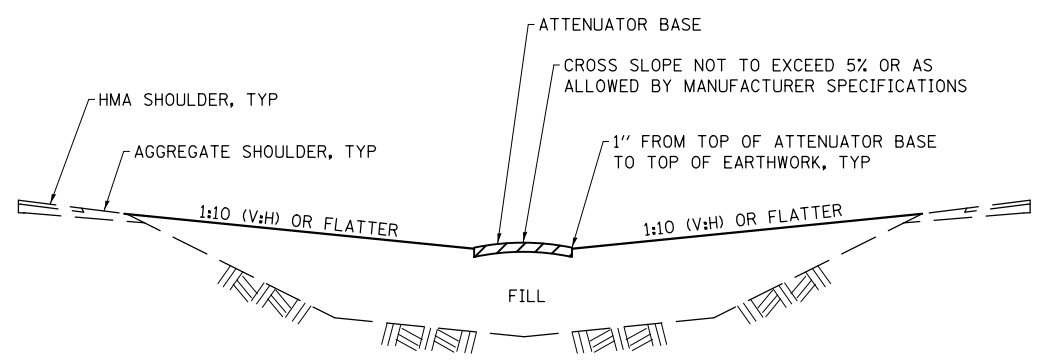




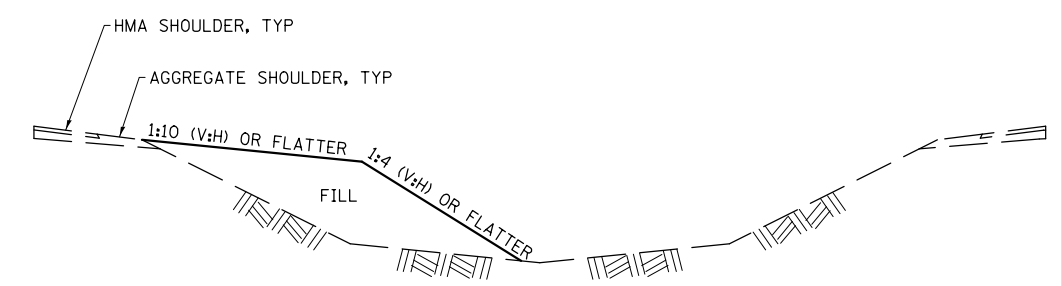
**IMPACT ATTENUATOR LAYOUT AND GRADING PLAN**

**GENERAL NOTES**

1. SAND MODULE IMPACT ATTENUATORS ARE REQUIRED TO HAVE A PCC OR HMA BASE, FOLLOWING THE REQUIREMENTS IN ARTICLE 643.04. ATTENUATOR BASE WILL BE PAID FOR AT CONTRACT UNIT PRICE PER SQUARE YARD OF ATTENUATOR BASE
2. REMOVE EXISTING SAND MODULE IMPACT ATTENUATORS AND ATTENUATOR BASES DURING PIER REMOVAL.
3. SEE STANDARD 643001 FOR ADDITIONAL DETAILS.
4. THE 1:10 SLOPE CONTROLS THE NOSE ELEVATION OF THE ATTENUATOR BASE.
5. ATTENUATOR BASE GRADE PARALLELS EDGE OF PAVEMENT GRADE.
6. SLOPE ADJACENT TO ATTENUATOR BASE SHALL BE 1:10 OR FLATTER.



**SECTION A-A**



**SECTION B-B**

PRINT DRIVER = L:\0-6-2018\1295\1295.dwg  
 PLOT SCALE = 0.1667 / 1" = 17'  
 PLOT DATE = 10/3/2018



USER NAME = kjk	DESIGNED - KJK	REVISED -
ESCA PROJECT NO. 1295.02	DRAWN - KJK	REVISED -
PLOT SCALE = 0.1667 / 1" = 17'	CHECKED - ELH	REVISED -
PLOT DATE = 10/3/2018	DATE - 07/18	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

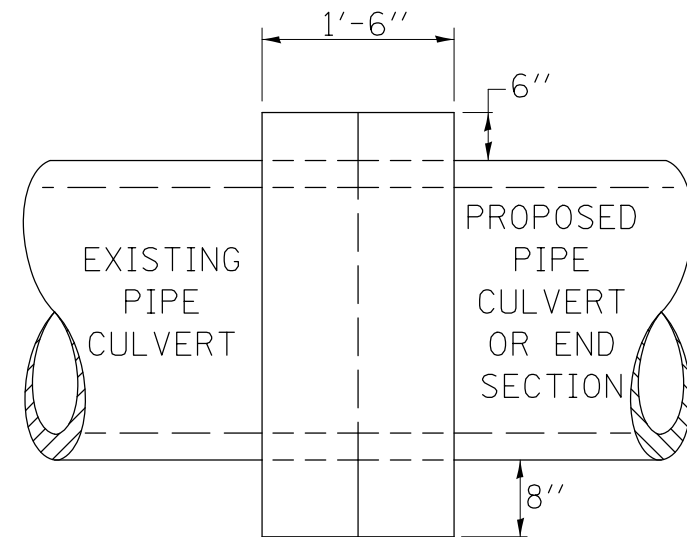
**IMPACT ATTENUATOR INSTALLATION DETAILS**

SCALE: AS SHOWN SHEET NO. 1 OF 1 SHEETS STA. 113+25.00 TO STA. 120+75.00

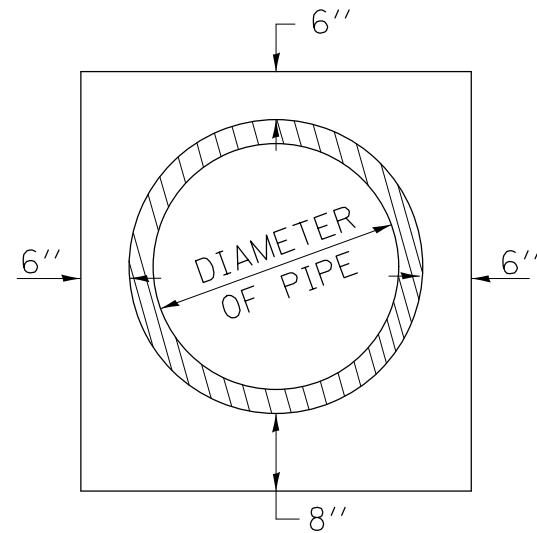
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	(41-1)BR-1	JEFFERSON	92	41
CONTRACT NO. 78455				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

# CONCRETE COLLAR

PIPE TO PIPE



SIDE VIEW



END VIEW

## TABULATION

DIAMETER OF PIPE	CL SI CONC CU YDS EST
12"	0.24
15"	0.29
18"	0.32
24"	0.44
30"	0.56
36"	0.66
42"	0.80
48"	0.93
54"	1.07
60"	1.22
72"	1.55

THE CONCRETE COLLAR SHALL BE PAID FOR AT THE CONTRACT UNIT PRICE PER CUBIC YARD FOR CONCRETE COLLAR, AS SHOWN ON THE PLANS, WHICH PRICE SHALL INCLUDE THE REMOVAL OF SUCH PORTIONS THE EXISTING HEADWALLS AS MAY BE REQUIRED.

CLASS SI CONCRETE SHALL BE USED THROUGHOUT.

### REVISIONS

DRAWN	7-13-90
REVISED	8-22-94
REVISED	3-26-08
REVISED	5-17-13

STD. 9-79

PRINT DRIVER = L:\E-Books\l...  
 USER NAME = PLT...  
 PLOT SCALE = 0.1667' / in.  
 PLOT DATE = 10/3/2018



USER NAME = kjk	DESIGNED - KJK	REVISED -
ESCA PROJECT NO. 1295.02	DRAWN - KJK	REVISED -
PLOT SCALE = 0.1667' / in.	CHECKED - ELH	REVISED -
PLOT DATE = 10/3/2018	DATE - 05/18	REVISED -

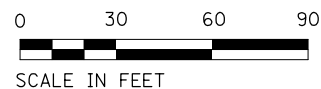
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**CONCRETE COLLAR DETAILS**

SCALE: NONE SHEET NO. 1 OF 1 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	(41-1)BR-1	JEFFERSON	92	42
CONTRACT NO. 78455				

FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT

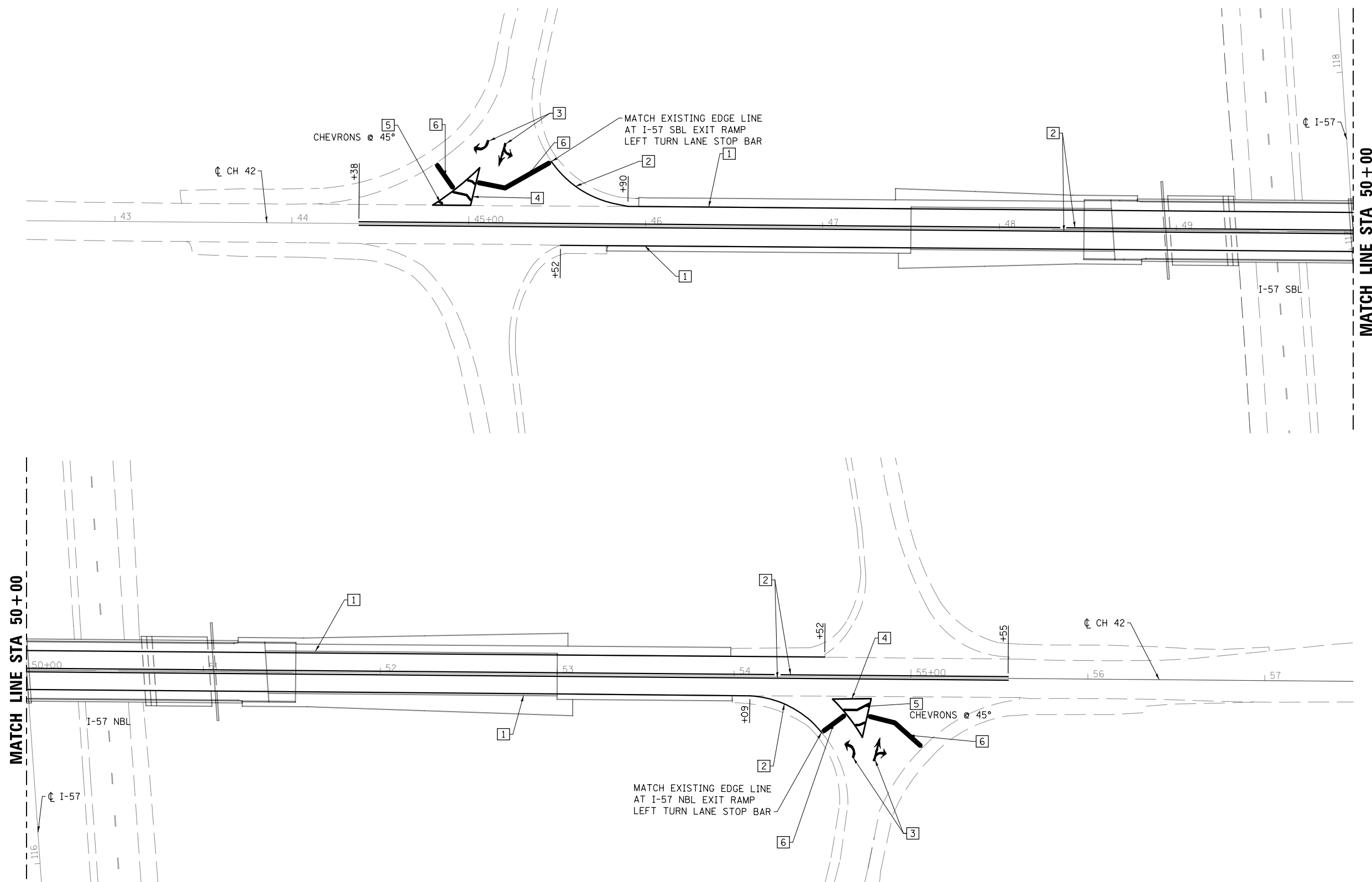


**NOTES:**

1. SEE SCHEDULE OF QUANTITIES SHEETS FOR PAVEMENT MARKING QUANTITIES.
2. SEE HIGHWAY STANDARD 780001 FOR PAVEMENT MARKING DETAILS NOT SHOWN ON THIS SHEET.
3. REMOVE AND REPLACE STOP BAR, PAINTED ISLAND, CHEVRONS, AND TURN ARROWS ON THE I-57 NORTHBOUND AND SOUTHBOUND EXIT RAMP.

**PROPOSED PAVEMENT MARKING LEGEND**

- |   |  |   |   |
|---|--|---|---|
| 1 | MODIFIED URETHANE PAVEMENT MARKING - LINE 4" (WHITE)     | 5 | MODIFIED URETHANE PAVEMENT MARKING - LINE 12" (WHITE) |
| 2 | MODIFIED URETHANE PAVEMENT MARKING - LINE 4" (YELLOW)    | 6 | MODIFIED URETHANE PAVEMENT MARKING - LINE 24" (WHITE) |
| 3 | MODIFIED URETHANE PAVEMENT MARKING - LETTERS AND SYMBOLS |   |   |
| 4 | MODIFIED URETHANE PAVEMENT MARKING - LINE 8" (WHITE)     |   |   |



PRINT DRIVER = LUD-EB-04-10-19  
 PLOT DATE = 10/3/2018 7:27:13 AM  
 SCALE NAME = 1"=30'  
 PLOT SCALE = 0:2' / in.



USER NAME = kjk	DESIGNED - KJK	REVISED -
ESCA PROJECT NO. 1295.02	DRAWN - ELH	REVISED -
PLOT DATE = 10/3/2018	CHECKED - ELH	REVISED -
7:27:13 AM	DATE - 06/18	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**FAS 824 (CH 42) PAVEMENT MARKING**

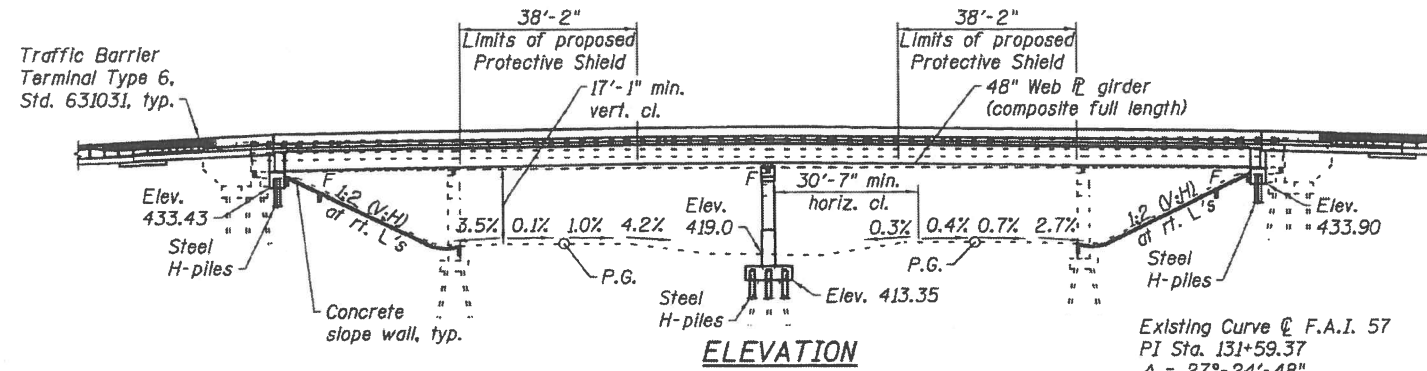
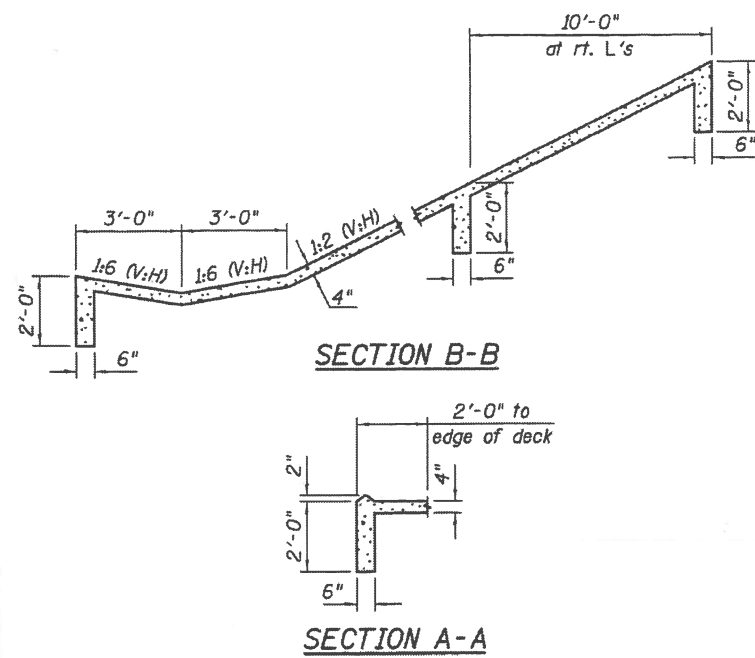
SCALE: 1"=30' SHEET NO. 1 OF 1 SHEETS STA. 42+50.00 TO STA. 57+50.00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	(41-1)BR-1	JEFFERSON	92	43
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT			CONTRACT NO. 78455	

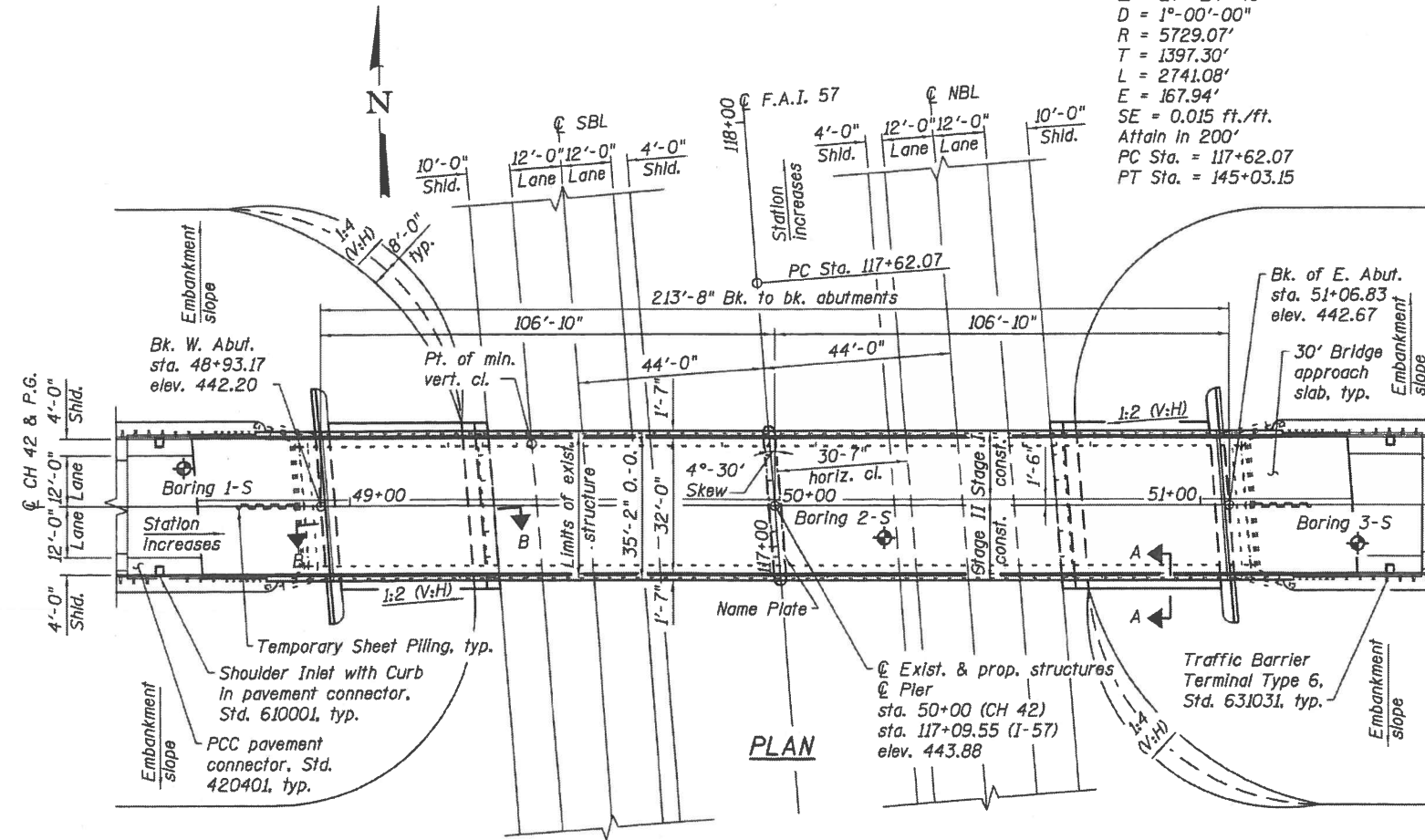
BENCHMARK: BM #1 - Chiseled square in top of southeast wingwall, Sta. 51+16.50, 17.8' RT, Elev. 442.93

**EXISTING STRUCTURE:**  
 SN 041-0055 was originally built in 1965 as F.A.I. 57, Section 41-1HB-1. Three minor repairs have been made since then. First, a new steel bridge rail was installed on the existing curb. Second, a new 2" HMA surface with waterproofing membrane was installed. Third, in 2011 the deck slab, bearings, and bridge joints were repaired. The bridge consists of four spans of a concrete deck on six 30WF108 beams, supported by three hammerhead piers and open abutments on steel piles. The structure is skewed 4°-30'. The back-to-back distance between abutments is 223'-8" and the deck width is 34'-0". Traffic will be maintained using stage construction.

No salvage.



Existing Curve @ F.A.I. 57  
 PI Sta. 131+59.37  
 $\Delta = 27^\circ-24'-48''$   
 $D = 1^\circ-00'-00''$   
 $R = 5729.07'$   
 $T = 1397.30'$   
 $L = 2741.08'$   
 $E = 167.94'$   
 $SE = 0.015 \text{ ft./ft.}$   
 Attain in 200'  
 PC Sta. = 117+62.07  
 PT Sta. = 145+03.15



**DESIGN SPECIFICATIONS**

2017 AASHTO LRFD  
 Bridge Design Specifications  
 8th Edition

**DESIGN STRESSES**

**FIELD UNITS**

$f'_c = 3,500 \text{ psi}$  (substructure)  
 $f'_c = 4,000 \text{ psi}$  (superstructure)  
 $f_y = 50,000 \text{ psi}$  (AASHTO M270 Grade 50)  
 $f_y = 60,000 \text{ psi}$  (reinforcement)

**SEISMIC DATA**

Seismic Performance Zone (SPZ) = 2  
 Design Spectral Acceleration at 1.0 sec. ( $S_{D1}$ ) = 0.229g  
 Design Spectral Acceleration at 0.2 sec. ( $S_{D5}$ ) = 0.633g  
 Soil Site Classification = C

**LOADING HL-93**

Allow 50 psf for future wearing surface

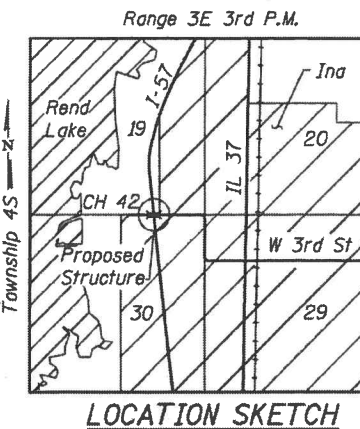
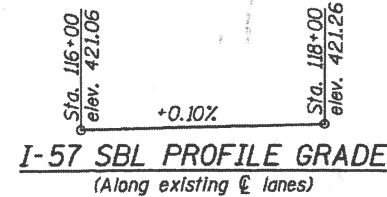
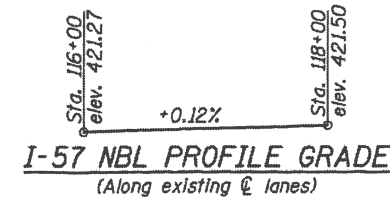
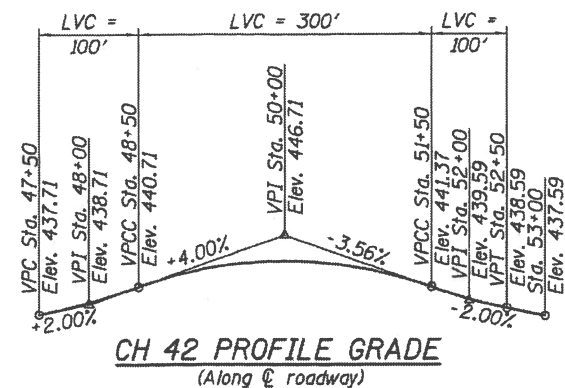
**GENERAL PLAN & ELEVATION**  
 F.A.S. 824 (CH 42) OVER I-57

**F.A.I. RTE. 57 - SECTION (41-1)BR-1**

**JEFFERSON COUNTY**

**STATION 50+00.00**

**STRUCTURE NO. 041-0113**



**APPROVED**  
 For Structural Adequacy Only

*Carl P. [Signature]*  
 Engineer of Bridges & Structures



EXPIRES 11-30-18  
 SIGNATURE  
 10-03-18  
 DATE



USER NAME = kja	DESIGNED - KJA	06/18	REVISED -
ESCA PROJECT NO. 1295.82	CHECKED - RDP	06/18	REVISED -
PLOT SCALE = 8:2" = 1'	DRAWN - KAH	06/18	REVISED -
PLOT DATE = 10/2/2018	CHECKED - KJA	09/18	REVISED -

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	(41-1)BR-1	JEFFERSON	92	44
			CONTRACT NO. 78455	

**GENERAL NOTES**

- Fasteners shall be ASTM A325 Type 1, mechanically galvanized bolts. Bolts 7/8" φ, holes 15/16" φ, unless otherwise noted.
- Calculated weight of Structural Steel = 224,360 lbs. (AASHTO M270 Grade 50)  
13,560 lbs. (AASHTO M270 Grade 36)
- No field welding is permitted except as specified in the contract documents.
- Reinforcement bars designated (E) shall be epoxy coated.
- Bearing seat surfaces shall be constructed or adjusted to the designated elevations within a tolerance of 1/8 in. (0.01 ft.). Adjustment shall be made either by grinding the surface or by shimming the bearings.
- The existing structural steel coating contains lead. The Contractor shall take appropriate precautions to deal with the presence of lead on this project.
- The Inorganic Zinc Rich Primer / Acrylic / Acrylic Paint System shall be used for shop and field painting of new structural steel except where otherwise noted. The color of the final finish coat for all interior steel surfaces shall be gray, Munsell No. 5B 7/1. The color of the final finish coat for the exterior and bottom flange of the fascia beams shall be Reddish Brown, Munsell No 2.5YR 3/4.
- The embankment configuration shown shall be the minimum that must be placed and compacted prior to construction of the abutments.
- Slipforming of the parapets is not allowed.
- Slope wall shall be reinforced with welded fabric, 6in. x 6in. - W4.0 x W4.0, weight 58 lbs. per 100 sq. ft.
- The cost of the concrete slope wall removal and bridge rail removal are included in Removal of Existing Structures. Removal of the existing protective shield system is included in the cost of Removal of Existing Structures.

**STRUCTURE INDEX OF SHEETS**

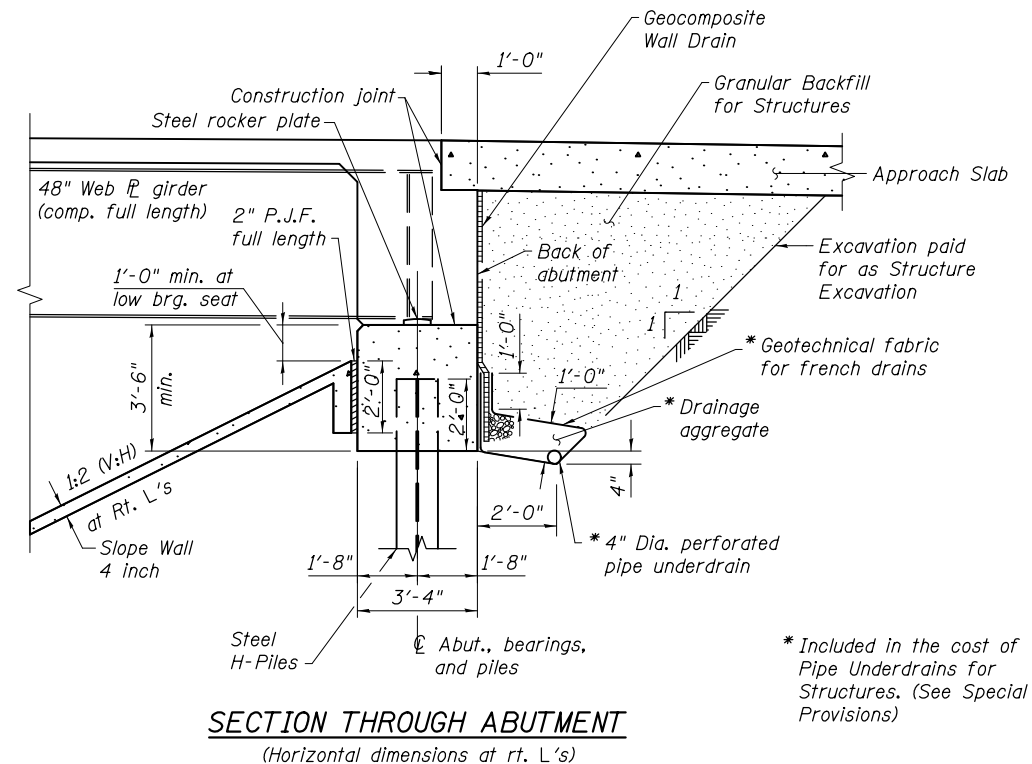
General Plan & Elevation	Sheet No. 1 of 28
General Data	Sheet No. 2 of 28
Substructure Layout	Sheet No. 3 of 28
Stage Construction Details	Sheet No. 4-5 of 28
Temporary Concrete Barrier for Stage Construction	Sheet No. 6 of 28
Steel Railing (Temporary)	Sheet No. 7 of 28
Top of Slab Elevations	Sheet No. 8-9 of 28
Top of Approach Slab Elevations	Sheet No. 10 of 28
Superstructure	Sheet No. 11 of 28
Superstructure Details	Sheet No. 12 of 28
Diaphragm Details	Sheet No. 13 of 28
Bridge Approach Slab Details	Sheet No. 14-15 of 28
Steel Framing Plan & Details	Sheet No. 16 of 28
Camber Diagram	Sheet No. 17 of 28
Steel Framing Details	Sheet No. 18-19 of 28
Bearing Details	Sheet No. 20 of 28
West Abutment	Sheet No. 21 of 28
East Abutment	Sheet No. 22 of 28
Pier	Sheet No. 23 of 28
HP Pile Details	Sheet No. 24 of 28
Bar Splicer Assembly Details	Sheet No. 25 of 28
Boring Logs	Sheet No. 26-28 of 28

**STATION 50+00**  
**BUILT 20\_\_ BY**  
**STATE OF ILLINOIS**  
**F.A.I. RT. 57 SEC. (41-1)BR-1**  
**LOADING HL-93**  
**STR. NO. 041-0113**

**NAME PLATE**  
 See Std. 515001

**TOTAL BILL OF MATERIAL**

ITEM	UNIT	SUPER	SUB	TOTAL
Removal of Existing Structures	Each			1
Protective Shield	Sq. Yd.	300		300
Structure Excavation	Cu. Yd.		240	240
Concrete Structures	Cu. Yd.	21.0	112.2	133.2
Concrete Superstructure	Cu. Yd.	279.8		279.8
Bridge Deck Grooving	Sq. Yd.	909		909
Protective Coat	Sq. Yd.	1301		1301
Concrete Superstructure (Approach Slab)	Cu. Yd.	96.5		96.5
Furnishing and Erecting Structural Steel	L Sum	1		1
Stud Shear Connectors	Each	4,194		4,194
Reinforcement Bars, Epoxy Coated	Pound	103,720	18,620	122,340
Bar Splicers	Each	921	70	991
Steel Railing (Temporary)	Foot	550		550
Slope Wall 4 Inch	Sq. Yd.		365	365
Furnishing Steel Piles HP14x89	Foot		1,103	1,103
Driving Piles	Foot		1,103	1,103
Test Pile Steel HP14x89	Each		1	1
Name Plates	Each	1		1
Anchor Bolts, 1"	Each	24		24
Anchor Bolts, 1 1/4"	Each	12		12
Temporary Sheet Piling	Sq. Ft.		540	540
Geocomposite Wall Drain	Sq. Yd.		80	80
Granular Backfill for Structures	Cu. Yd.		170	170
Pipe Underdrains for Structures 4"	Foot		128	128
Temporary Support System	Each		1	1



**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).

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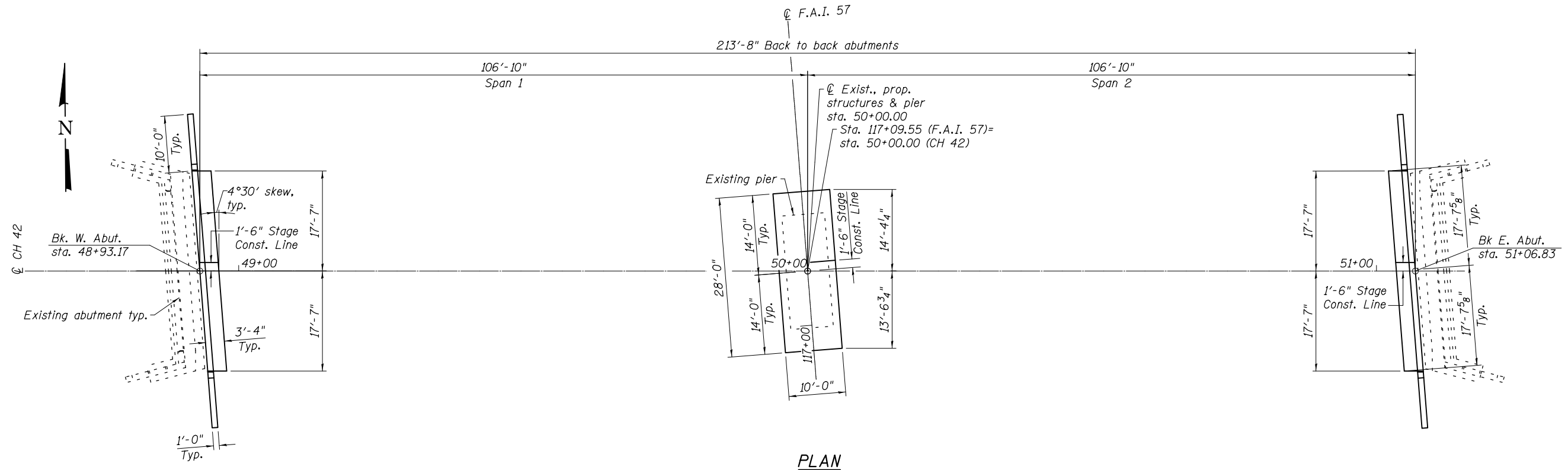
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**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

**GENERAL DATA**  
**STRUCTURE NO. 041-0113**

SHEET NO. 2 OF 28 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	(41-1)BR-1	JEFFERSON	92	45
CONTRACT NO. 78455				
ILLINOIS FED. AID PROJECT				



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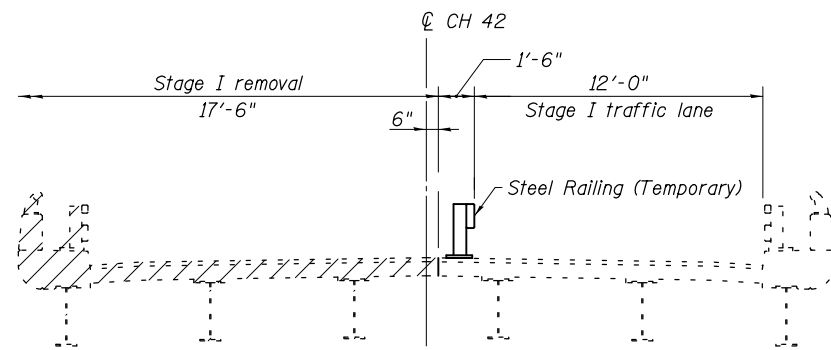
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**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

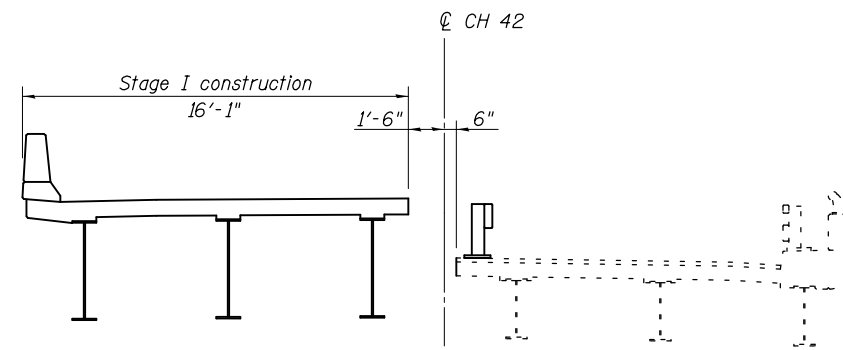
**SUBSTRUCTURE LAYOUT**  
**STRUCTURE NO. 041-0113**

SHEET NO. 3 OF 28 SHEETS

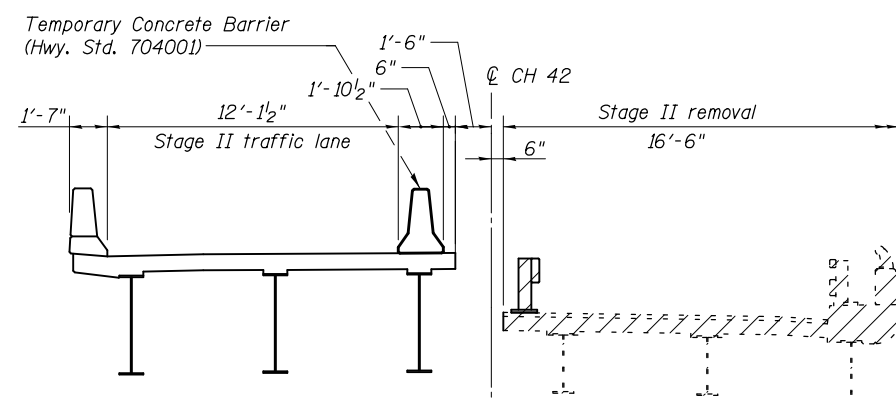
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CONTRACT NO. 78455				
ILLINOIS FED. AID PROJECT				



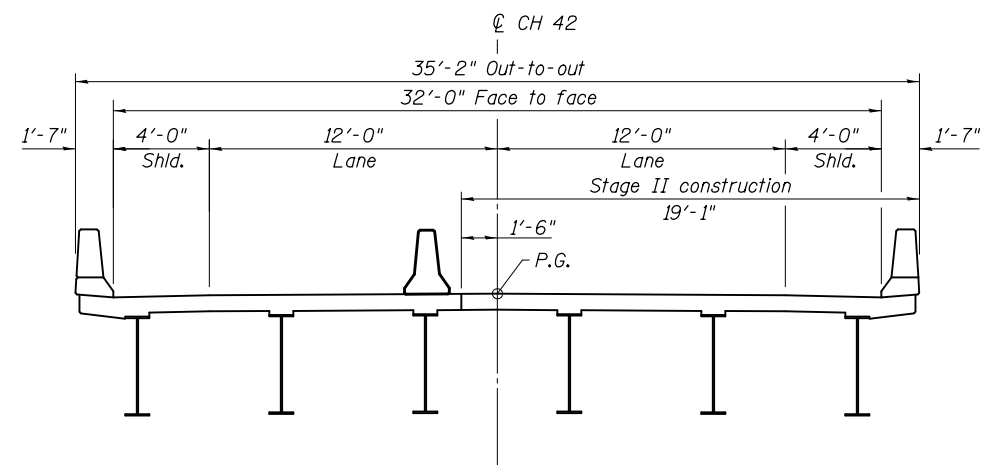
**STAGE I REMOVAL**  
(Looking East)



**STAGE I CONSTRUCTION**  
(Looking East)



**STAGE II REMOVAL**  
(Looking East)



**STAGE II CONSTRUCTION**  
(Looking East)

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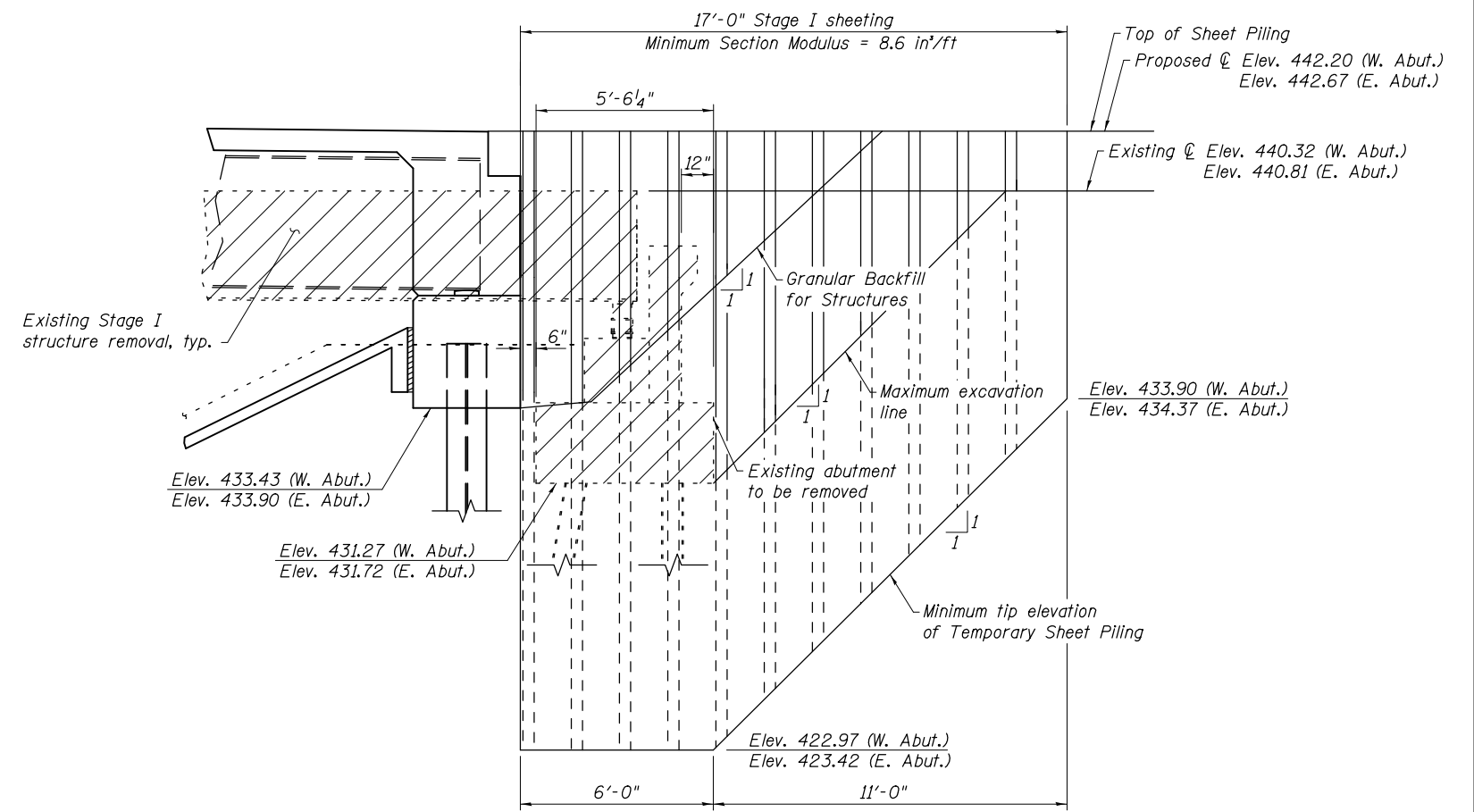
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**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**STAGE CONSTRUCTION DETAILS  
STRUCTURE NO. 041-0113**

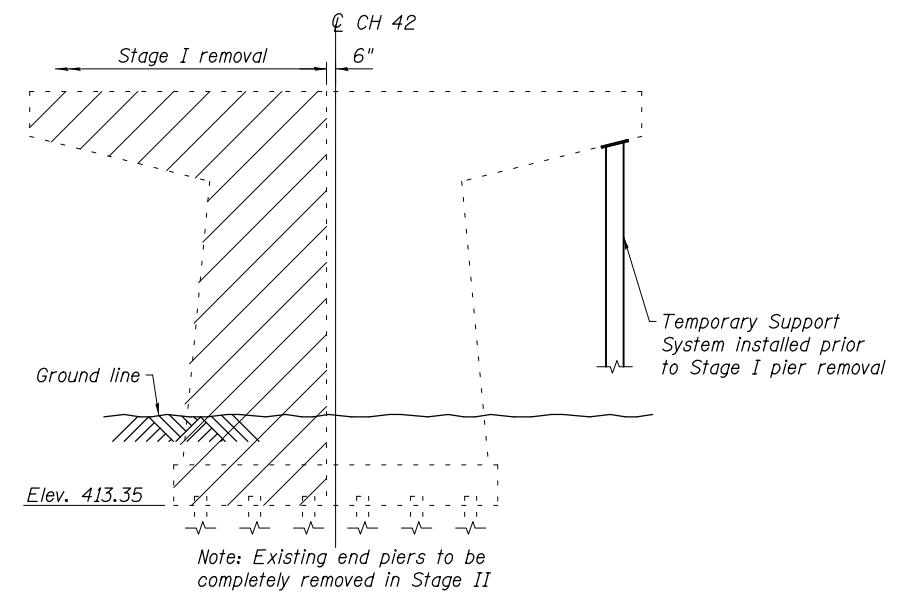
SHEET NO. 4 OF 28 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	(41-1)BR-1	JEFFERSON	92	47
CONTRACT NO. 78455				
ILLINOIS FED. AID PROJECT				



**TEMPORARY SHEET PILING**

Notes:  
 If the Contractor chooses to alter the temporary cantilevered sheet piling design requirements shown on the plans, a design submittal including plan details and calculations will be required for review and acceptance by the Engineer.  
 The Contractor shall connect the first sheet to the existing abutment wall to ensure stability of sheets driven to the top of the existing footing. This connection shall be reviewed and accepted by the Engineer and included in the cost for Temporary Sheet Piling.  
 Existing structure details are taken from existing plans.  
 Dimensions and slopes are shown along the Temporary Sheet Piling unless noted otherwise.



**CENTER PIER REMOVAL SKETCH**  
 (Looking East)

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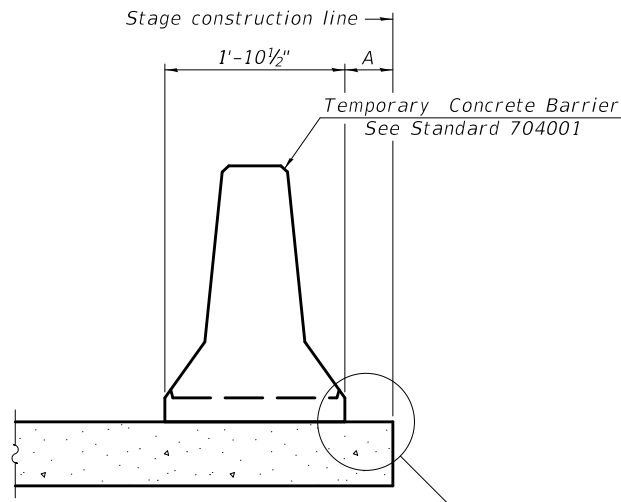
**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**STAGE CONSTRUCTION DETAILS  
 STRUCTURE NO. 041-0113**

SHEET NO. 5 OF 28 SHEETS

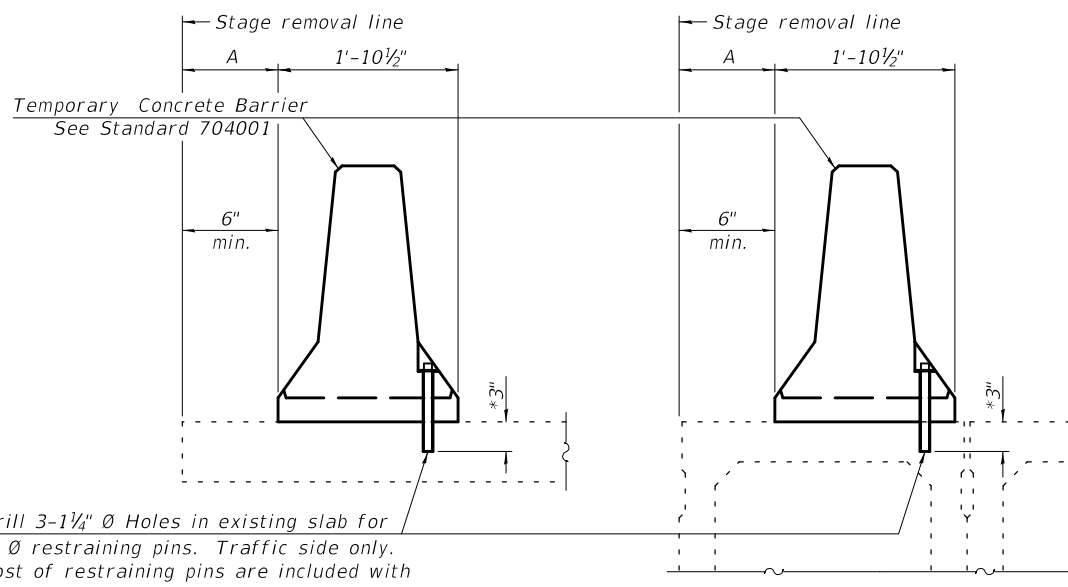
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	(41-1)BR-1	JEFFERSON	92	48
<b>CONTRACT NO. 78455</b>				
ILLINOIS FED. AID PROJECT				





When "A" is 3'-1" or less, the temporary concrete barrier shall be restrained to the new slab according to Detail I, II or III. No restraint is required when "A" is greater than 3'-1".

**NEW SLAB OR NEW DECK BEAM**

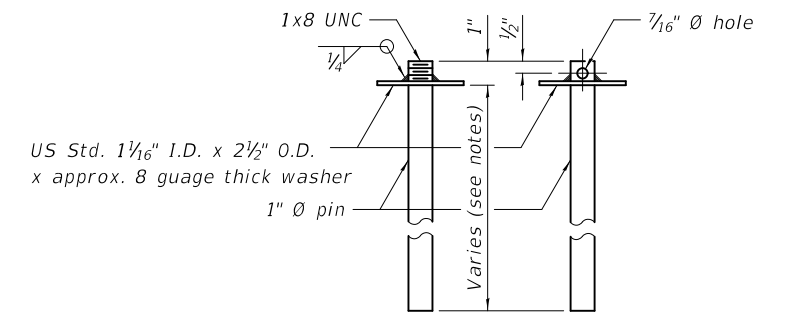


Drill 3-1/4" Ø Holes in existing slab for 1" Ø restraining pins. Traffic side only. Cost of restraining pins are included with Temporary Concrete Barrier. No restraint is required when "A" is greater than 3'-1".

**EXISTING SLAB**

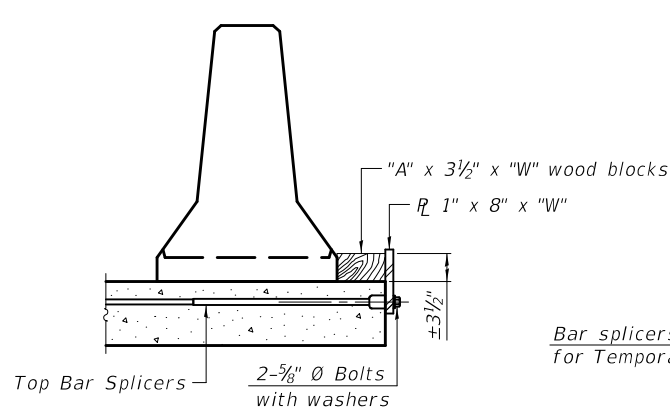
\* When hot-mix asphalt wearing surface is present, embedment shall be 3" plus the wearing surface depth.

**EXISTING DECK BEAM**

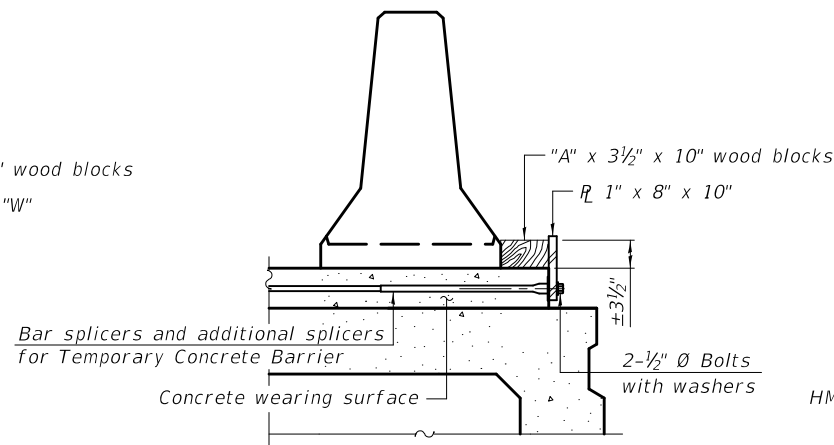


**RESTRAINING PIN**

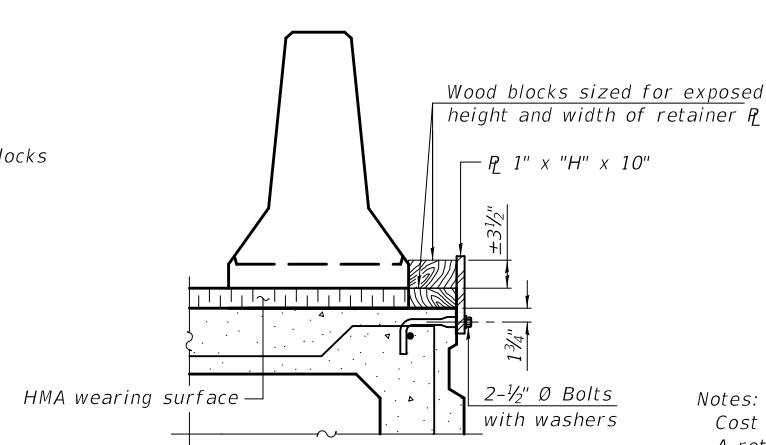
**SECTIONS THRU SLAB OR DECK BEAM**



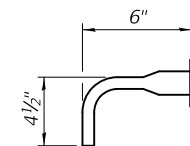
**DETAIL I**



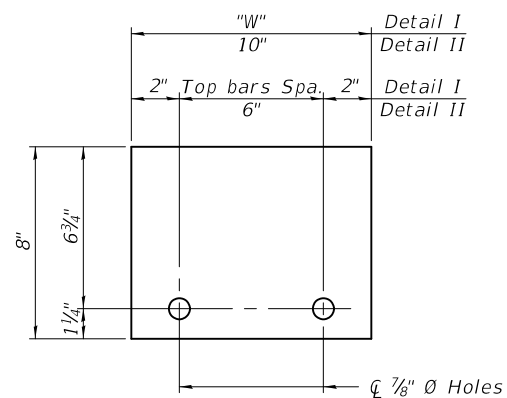
**DETAIL II**



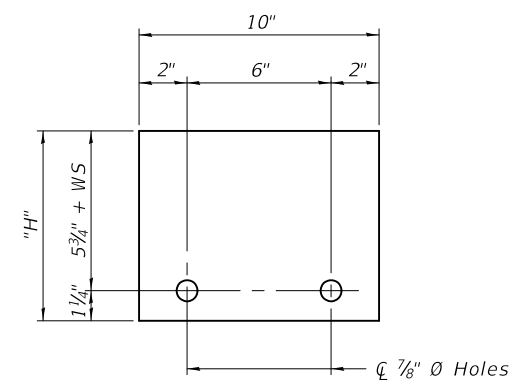
**DETAIL III**



**BAR SPLICER FOR #4 BAR - DETAIL III**



**STEEL RETAINER R 1" x 8" x "W"**  
(Detail I and II)



**STEEL RETAINER R 1" x "H" x 10"**  
(Detail III)

**Notes:**  
 Cost of retainer assembly is included with Temporary Concrete Barrier. A retainer assembly shall be located at the approximate C of each temporary concrete barrier.  
 The retainer plate shall not be removed until the concrete on the adjacent stage is ready to be poured. For Detail III applications the retainer plate shall not be removed until just prior to placing the adjacent beam.  
 When the 'A' dimension is less than 1 1/2', the wood block shall be omitted and the barrier shall be placed in direct contact with the steel retainer plate. For deck beam applications the minimum required 'A' distance is 6" to accommodate the shear key clamping device.  
**Detail I - Installation for a new bridge deck or bridge slab.**  
**Detail II - Installation for a new deck beam with an initial concrete wearing surface.** Additional bar splicers shall be provided at 6'-0" centers and paired with the bar splicers of the concrete wearing surface reinforcement to accommodate the installation of the retainer assemblies. The cost of the additional bar splicers is included with the concrete wearing surface.  
**Detail III - Installation for a new deck beam with no initial wearing surface or with an initial hot-mix asphalt (HMA) wearing surface present.** The deck beam directly beneath the temporary concrete barrier shall be fabricated with bar splicer inserts in the side of the beam, as detailed, to accommodate the installation of the retainer assemblies. A pair of bar splicers, 6" apart, shall be placed at 6'-0" centers along the length of the beam. The cost of the bar splicers is included with the deck beam.

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R-27

8-11-2017



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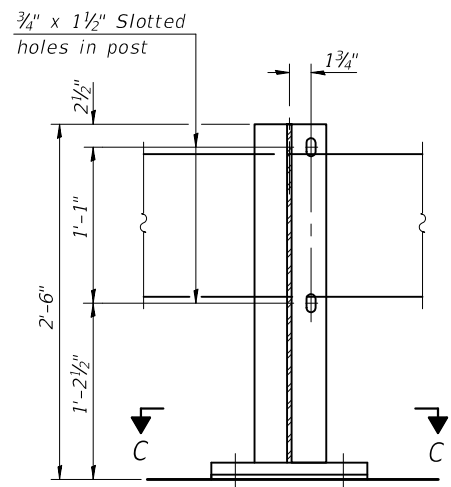
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**TEMPORARY CONCRETE BARRIER FOR STAGE CONSTRUCTION  
STRUCTURE NO. 041-0113**

SHEET NO. 6 OF 28 SHEETS

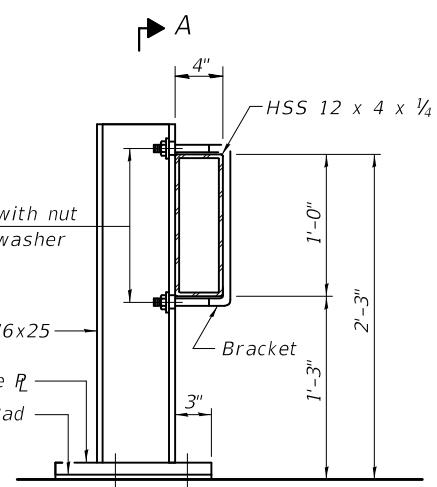
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	(41-1)BR-1	JEFFERSON	92	49
CONTRACT NO. 78455				

ILLINOIS FED. AID PROJECT

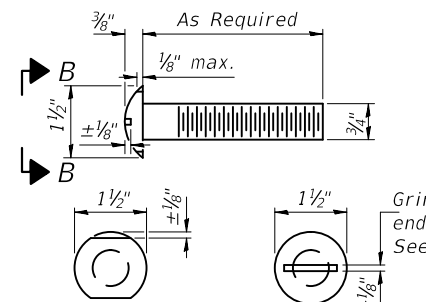


SECTION A-A

2-5/8" Ø H.S. Studs with nut and flat hardened washer

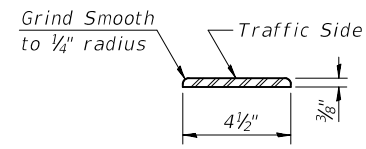


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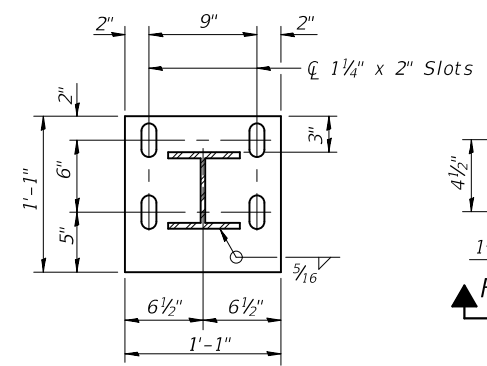


Without Slot or Recess With Slot (shown) or Approved Recess

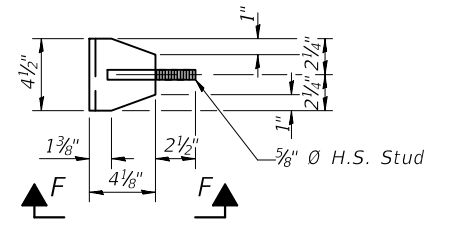
VIEW B-B  
ROUND HEAD BOLT



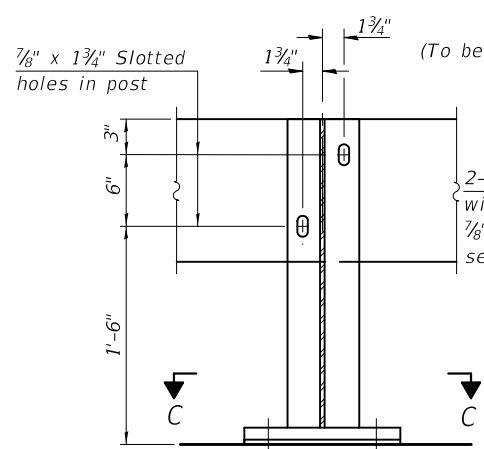
DETAIL A



SECTION C-C

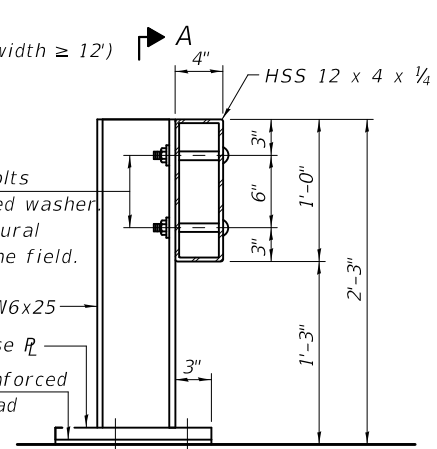


VIEW D-D

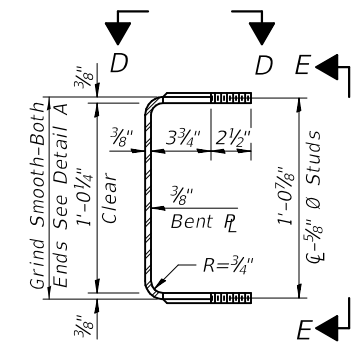


SECTION A-A

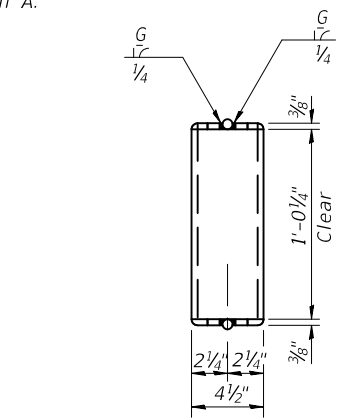
ALTERNATE I  
(To be used only for Roadway width ≥ 12')



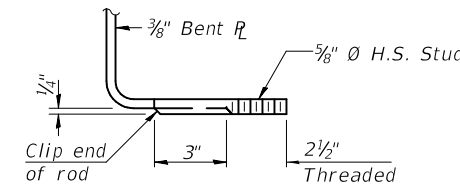
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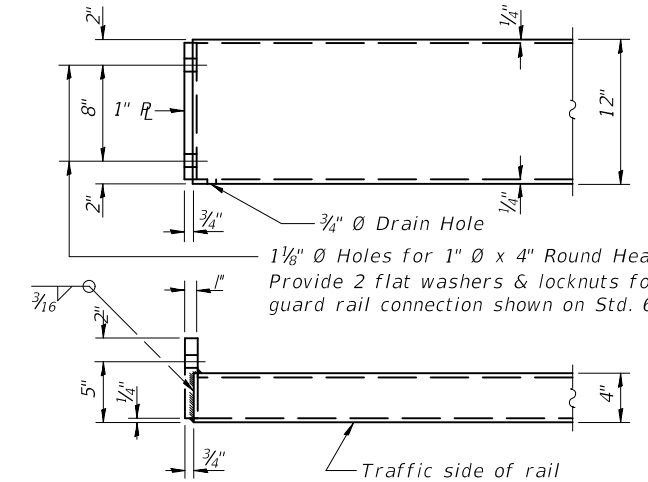
SECTION THRU BRACKET



VIEW E-E



VIEW F-F



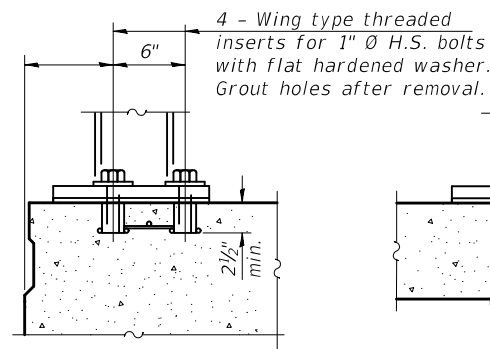
END OF RAIL DETAILS

SPLICE DIMENSIONS

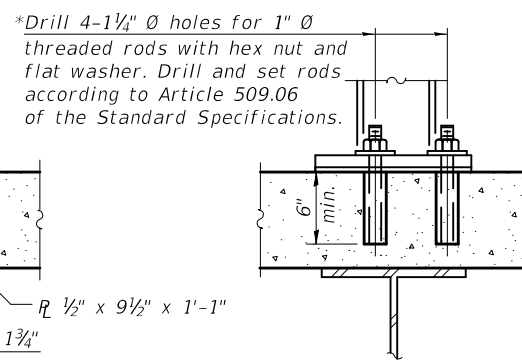
T	D	A	B	C	E
≤ 4"	2 1/2"	1'-8"	2"	4"	2 1/2"
> 4" ≤ 6 1/2"	3 3/4"	2'-0"	2 1/2"	5 1/2"	3 1/2"
> 6 1/2" ≤ 9"	5"	2'-4"	3 1/2"	6 1/2"	9"
> 9" ≤ 13"	7"	2'-10"	4 1/2"	8 1/2"	11"
Rail Splice	1/4"	1'-8"	2"	4"	

T = Total movement at expansion joint as shown on the design plans.

Notes:  
The contact surfaces between post flange, rail and inside face of bracket for Alternate I shall be free of all lubricants.  
The nut for 5/8" Ø high strength studs used in Alternate I to connect bracket to post shall be tightened to a snug fit and given an additional one half turn.



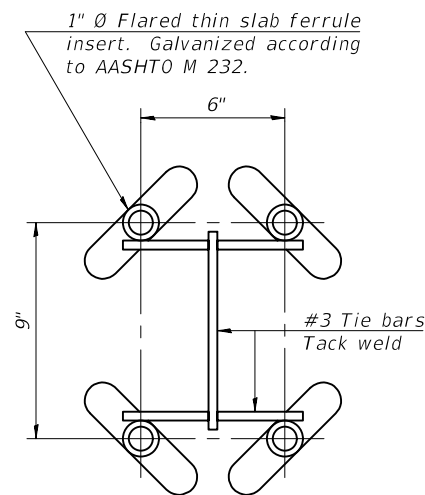
P.P.C. DECK BEAMS



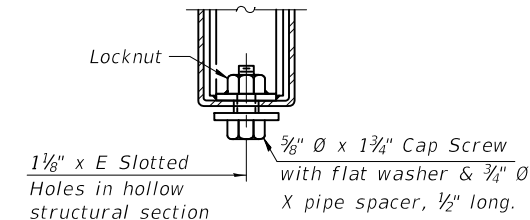
NEW & EXISTING DECKS

ANCHORAGE DETAILS

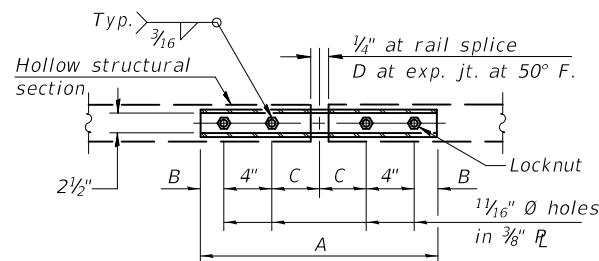
\*Drilled holes for existing deck.



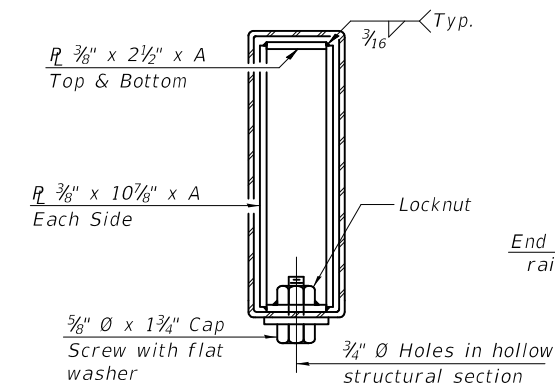
INSERT DETAIL



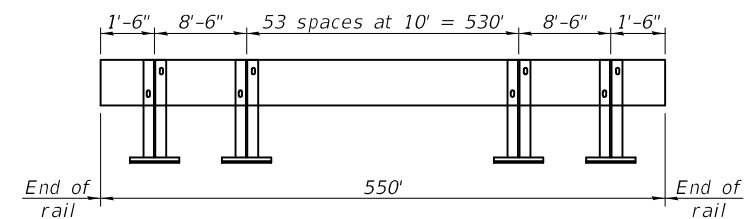
RAIL SPLICE CONNECTION  
AT EXPANSION JT.



PLAN-BOTT. SPLICE R  
TYPICAL



SECTION AT RAIL SPLICE



TEMPORARY BRIDGE RAIL POST SPACING

BILL OF MATERIAL

Item	Unit	Quantity
Steel Railing (Temporary)	Foot	550

R-25

8-11-2017 (10'-9" Maximum Post Spacing)



USER NAME = kja	DESIGNED - KJA	06/18	REVISED -
ESCA PROJECT NO. 1295.02	CHECKED - RDP	06/18	REVISED -
PLOT SCALE = 0:2 '1" / in.	DRAWN - KAH	06/18	REVISED -
PLOT DATE = 10/2/2018 11:17:00 PM	CHECKED - KJA	06/18	REVISED -

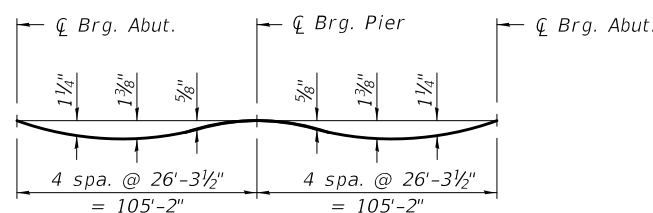
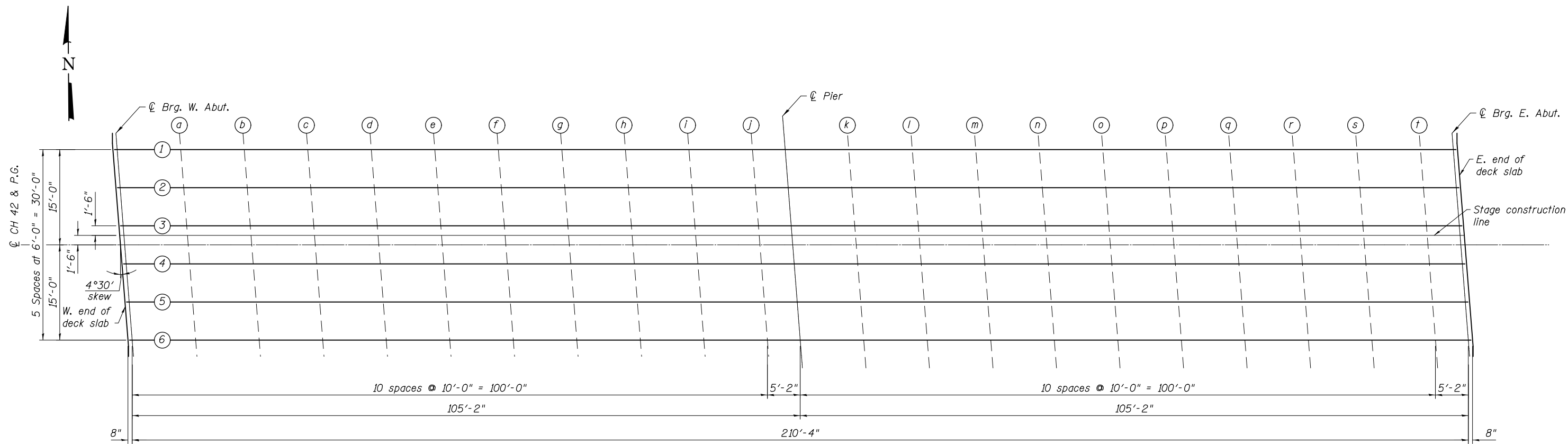
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

STEEL RAILING (TEMPORARY)  
STRUCTURE NO. 041-0113

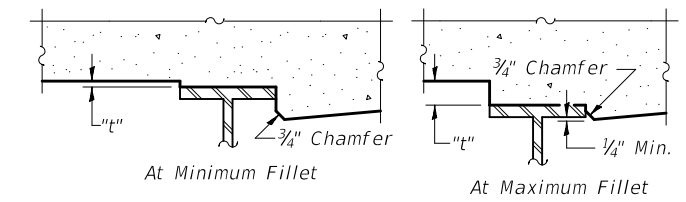
SHEET NO. 7 OF 28 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	(41-1)BR-1	JEFFERSON	92	50
CONTRACT NO. 78455				

ILLINOIS FED. AID PROJECT



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



To determine "t": After all structural steel has been erected, elevations of the top flanges of the beams shall be taken at intervals shown on this sheet. These elevations subtracted from the "Theoretical Grade Elevations Adjusted for Dead Load Deflection shown on the following sheet, minus slab thickness, equals the fillet heights "t" above top flange of beams.

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 ESCA PROJECT NO. 1295.02  
 PLOT SCALE = 0:2 '1" / 11"  
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ESCA PROJECT NO. 1295.02	CHECKED - RDP 06/18	REVISED -
PLOT SCALE = 0:2 '1" / 11"	DRAWN - KAH 06/18	REVISED -
PLOT DATE = 10/2/2018 11:7:08 PM	CHECKED - KJA 08/18	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

TOP OF SLAB ELEVATIONS  
STRUCTURE NO. 041-0113

SHEET NO. 8 OF 28 SHEETS

F.A.I. RTE. = 57	SECTION = (41-1)BR-1	COUNTY = JEFFERSON	TOTAL SHEETS = 92	SHEET NO. = 51
CONTRACT NO. 78455				
ILLINOIS FED. AID PROJECT				

BEAM 1

Table with 5 columns: Location, Station, Offset (ft.), Theoretical Grade Elevations, Theoretical Grade Elevations Adjusted For Dead Load Deflection. Rows include W. End of Slab, Ctr. Brg. W. Abut., and E. End of Slab.

BEAM 2

Table with 5 columns: Location, Station, Offset (ft.), Theoretical Grade Elevations, Theoretical Grade Elevations Adjusted For Dead Load Deflection. Rows include W. End of Slab, Ctr. Brg. W. Abut., and E. End of Slab.

BEAM 3

Table with 5 columns: Location, Station, Offset (ft.), Theoretical Grade Elevations, Theoretical Grade Elevations Adjusted For Dead Load Deflection. Rows include W. End of Slab, Ctr. Brg. W. Abut., and E. End of Slab.

BEAM 4

Table with 5 columns: Location, Station, Offset (ft.), Theoretical Grade Elevations, Theoretical Grade Elevations Adjusted For Dead Load Deflection. Rows include W. End of Slab, Ctr. Brg. W. Abut., and E. End of Slab.

BEAM 5

Table with 5 columns: Location, Station, Offset (ft.), Theoretical Grade Elevations, Theoretical Grade Elevations Adjusted For Dead Load Deflection. Rows include W. End of Slab, Ctr. Brg. W. Abut., and E. End of Slab.

BEAM 6

Table with 5 columns: Location, Station, Offset (ft.), Theoretical Grade Elevations, Theoretical Grade Elevations Adjusted For Dead Load Deflection. Rows include W. End of Slab, Ctr. Brg. W. Abut., and E. End of Slab.

Ctr. ROADWAY & PROFILE GRADE

Table with 5 columns: Location, Station, Offset (ft.), Theoretical Grade Elevations, Theoretical Grade Elevations Adjusted For Dead Load Deflection. Rows include W. End of Slab, Ctr. Brg. W. Abut., and E. End of Slab.

STAGE CONSTRUCTION LINE

Table with 5 columns: Location, Station, Offset (ft.), Theoretical Grade Elevations, Theoretical Grade Elevations Adjusted For Dead Load Deflection. Rows include W. End of Slab, Ctr. Brg. W. Abut., and E. End of Slab.

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USER NAME = kja  
ESCA PROJECT NO. 1295.02  
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DESIGNED - KJA 06/18  
CHECKED - RDP 06/18  
DRAWN - KAH 06/18  
CHECKED - KJA 08/18

REVISED -  
REVISED -  
REVISED -  
REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

TOP OF SLAB ELEVATIONS  
STRUCTURE NO. 041-0113

SHEET NO. 9 OF 28 SHEETS

Table with 5 columns: F.A.I. RTE., SECTION, COUNTY, TOTAL SHEETS, SHEET NO. Values: 57, (41-1)BR-1, JEFFERSON, 92, 52. CONTRACT NO. 78455. ILLINOIS FED. AID PROJECT.

WEST APPROACH SLAB

NORTH EDGE OF SHOULDER

Location	Station	Offset (ft.)	Theoretical Grade Elevations
W. End of W. Appr.	48+62.91	-16.00	440.95
A1	48+72.91	-16.00	441.30
A2	48+82.91	-16.00	441.63
E. End of W. Appr.	48+92.91	-16.00	441.93

NORTH EDGE OF ROADWAY

Location	Station	Offset (ft.)	Theoretical Grade Elevations
W. End of W. Appr.	48+63.23	-12.00	441.04
A1	48+73.23	-12.00	441.39
A2	48+83.23	-12.00	441.72
E. End of W. Appr.	48+93.23	-12.00	442.02

STAGE CONSTRUCTION LINE

Location	Station	Offset (ft.)	Theoretical Grade Elevations
W. End of W. Appr.	48+64.05	-1.50	441.22
A1	48+74.05	-1.50	441.58
A2	48+84.05	-1.50	441.91
E. End of W. Appr.	48+94.05	-1.50	442.21

☐ ROADWAY & P.G.

Location	Station	Offset (ft.)	Theoretical Grade Elevations
W. End of W. Appr.	48+64.17	0.00	441.25
A1	48+74.17	0.00	441.60
A2	48+84.17	0.00	441.93
E. End of W. Appr.	48+94.17	0.00	442.23

SOUTH EDGE OF ROADWAY

Location	Station	Offset (ft.)	Theoretical Grade Elevations
W. End of W. Appr.	48+65.11	12.00	441.11
A1	48+75.11	12.00	441.45
A2	48+85.11	12.00	441.78
E. End of W. Appr.	48+95.11	12.00	442.08

SOUTH EDGE OF SHOULDER

Location	Station	Offset (ft.)	Theoretical Grade Elevations
W. End of W. Appr.	48+65.43	16.00	441.04
A1	48+75.43	16.00	441.39
A2	48+85.43	16.00	441.71
E. End of W. Appr.	48+95.43	16.00	442.01

EAST APPROACH SLAB

NORTH EDGE OF SHOULDER

Location	Station	Offset (ft.)	Theoretical Grade Elevations
W. End of E. Appr.	51+04.57	-16.00	442.47
A3	51+14.57	-16.00	442.21
A4	51+24.57	-16.00	442.93
E. End of E. Appr.	51+34.57	-16.00	441.63

NORTH EDGE OF ROADWAY

Location	Station	Offset (ft.)	Theoretical Grade Elevations
W. End of E. Appr.	51+04.89	-12.00	442.54
A3	51+14.89	-12.00	442.28
A4	51+24.89	-12.00	442.00
E. End of E. Appr.	51+34.89	-12.00	441.70

STAGE CONSTRUCTION LINE

Location	Station	Offset (ft.)	Theoretical Grade Elevations
W. End of E. Appr.	51+05.71	-1.50	442.68
A3	51+15.71	-1.50	442.42
A4	51+25.71	-1.50	442.14
E. End of E. Appr.	51+35.71	-1.50	441.83

☐ ROADWAY & P.G.

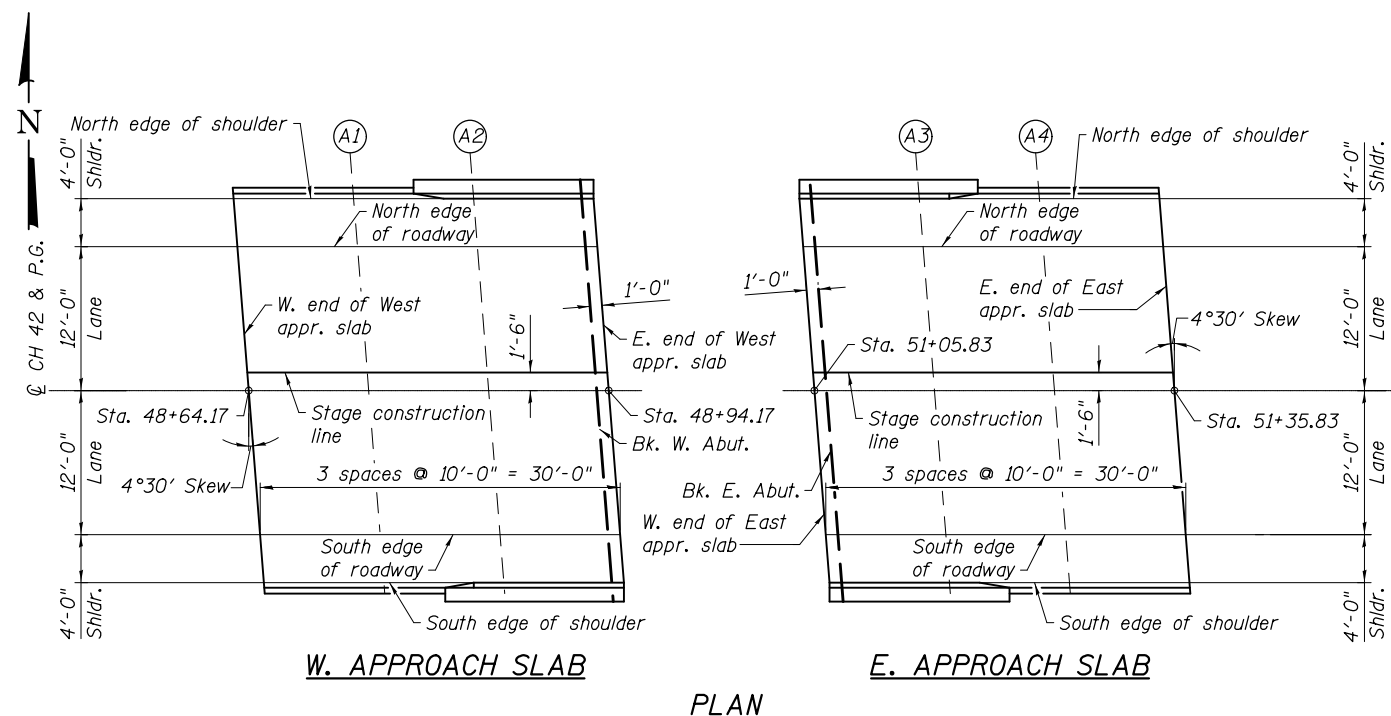
Location	Station	Offset (ft.)	Theoretical Grade Elevations
W. End of E. Appr.	51+05.83	0.00	442.70
A3	51+15.83	0.00	442.44
A4	51+25.83	0.00	442.16
E. End of E. Appr.	51+35.83	0.00	441.85

SOUTH EDGE OF ROADWAY

Location	Station	Offset (ft.)	Theoretical Grade Elevations
W. End of E. Appr.	51+06.77	12.00	442.49
A3	51+16.77	12.00	442.23
A4	51+26.77	12.00	441.95
E. End of E. Appr.	51+36.77	12.00	441.64

SOUTH EDGE OF SHOULDER

Location	Station	Offset (ft.)	Theoretical Grade Elevations
W. End of E. Appr.	51+07.09	16.00	442.41
A3	51+17.09	16.00	442.15
A4	51+27.09	16.00	441.86
E. End of E. Appr.	51+37.09	16.00	441.55



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 CHECKED - RDP 06/18  
 DRAWN - KAH 06/18  
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STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

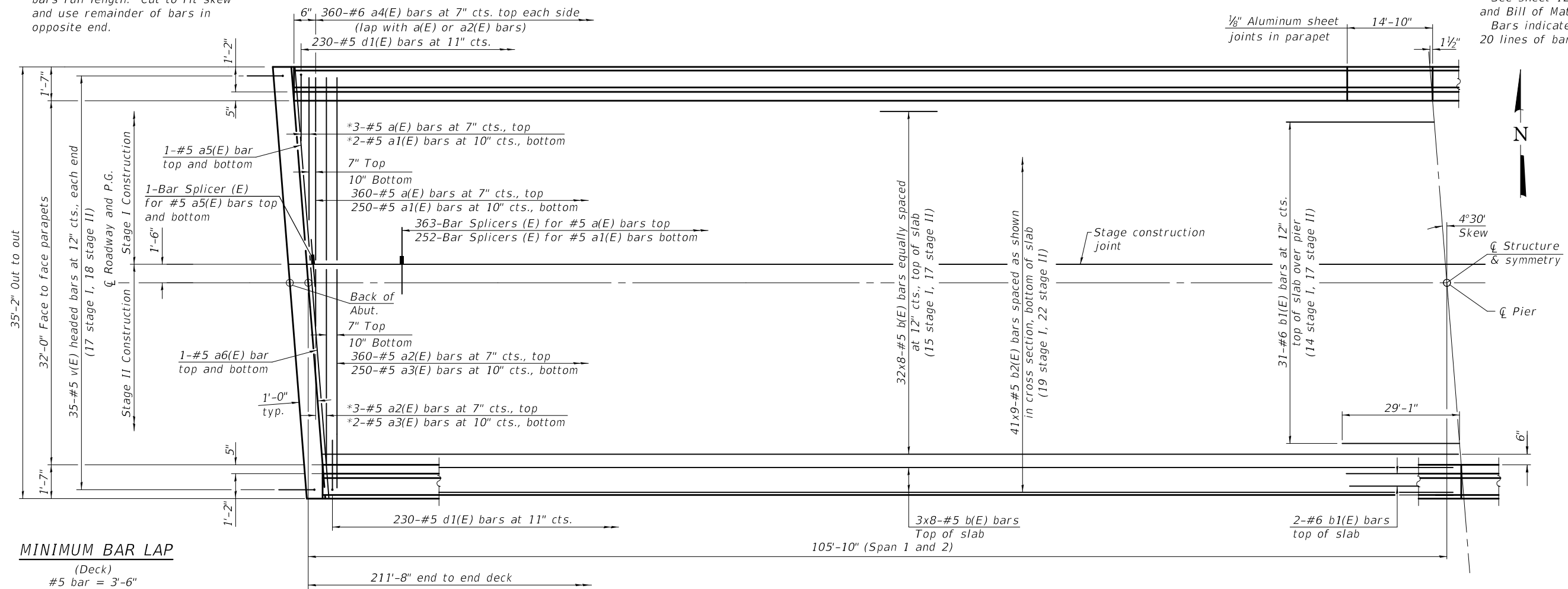
TOP OF APPROACH SLAB ELEVATIONS  
 STRUCTURE NO. 041-0113

SHEET NO. 10 OF 28 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	(41-1)BR-1	JEFFERSON	92	53
CONTRACT NO. 78455			ILLINOIS FED. AID PROJECT	

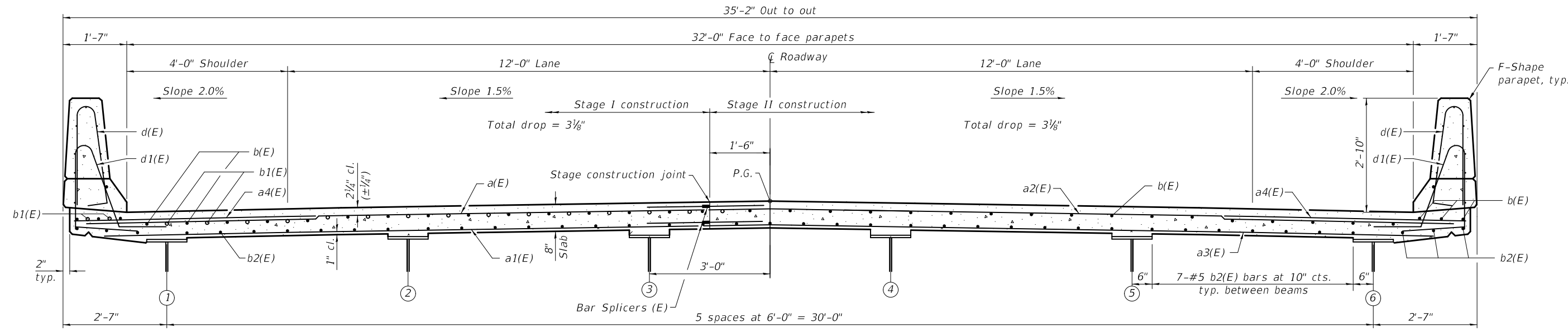
\* Order a(E), a1(E), a2(E) and a3(E) bars full length. Cut to fit skew and use remainder of bars in opposite end.

Notes:  
See sheet 12 of 28 for superstructure details and Bill of Material.  
Bars indicated thus 20 x 3-#5 etc. indicates 20 lines of bars with 3 lengths per line.



**MINIMUM BAR LAP**  
(Deck)  
#5 bar = 3'-6"

**PARTIAL PLAN**



**NEAR PIER**

**CROSS SECTION**  
(Looking East)

**NEAR MIDSPAN**

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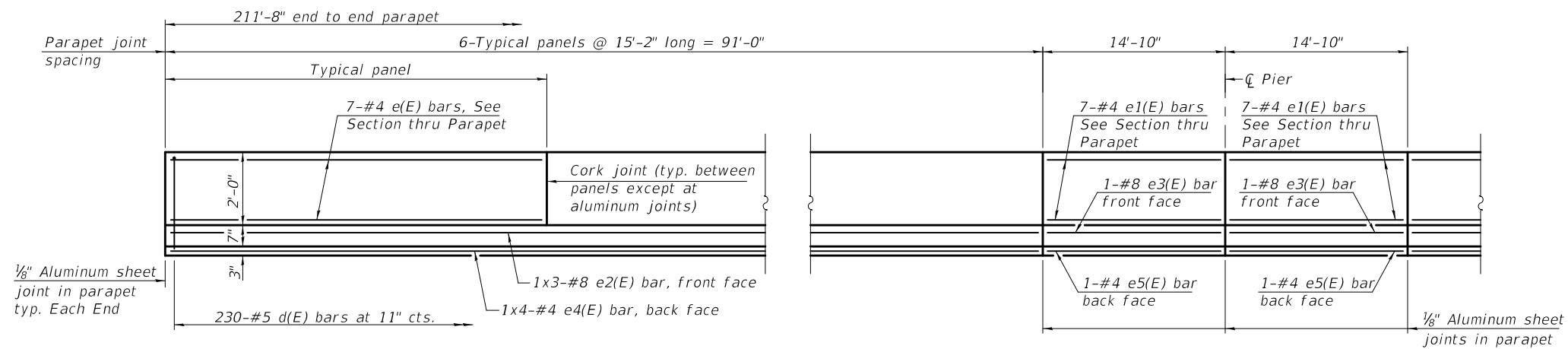
**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

**SUPERSTRUCTURE**  
**STRUCTURE NO. 041-0113**

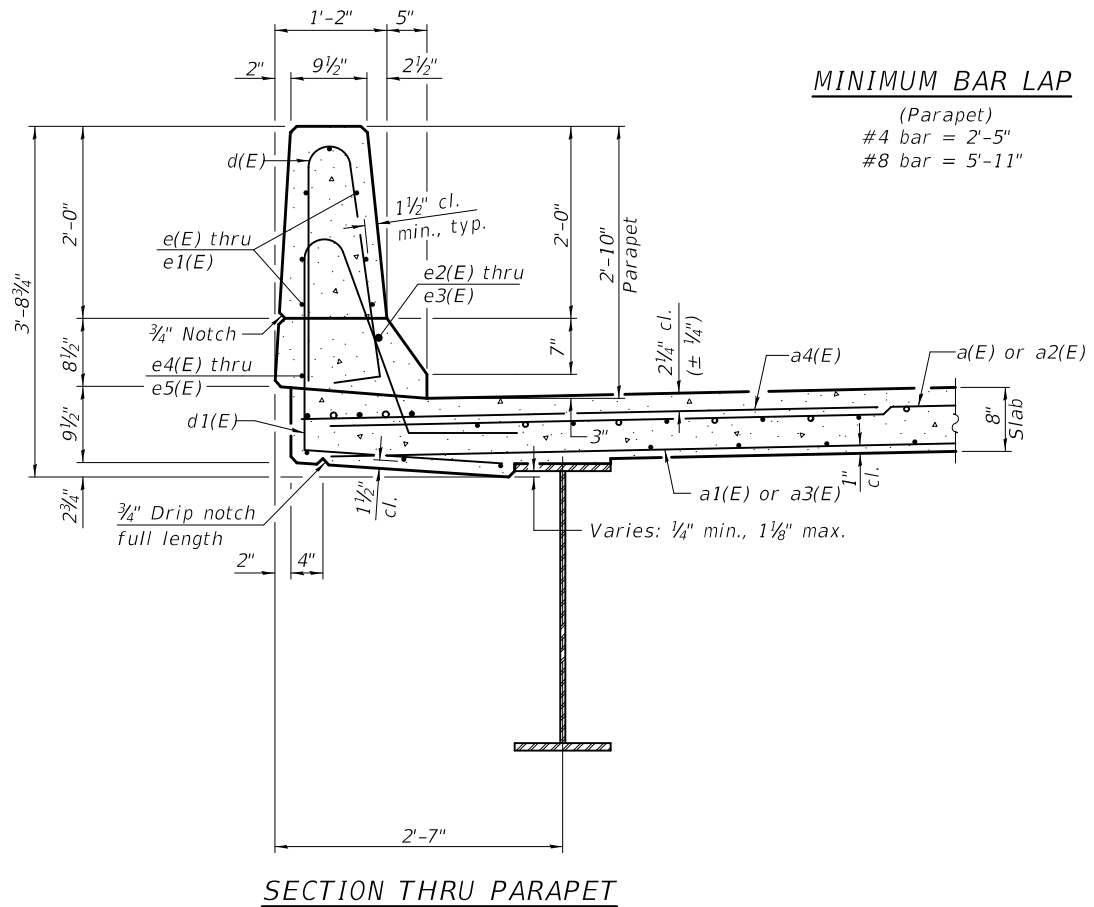
SHEET NO. 11 OF 28 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	(41-1)BR-1	JEFFERSON	92	54
CONTRACT NO. 78455				

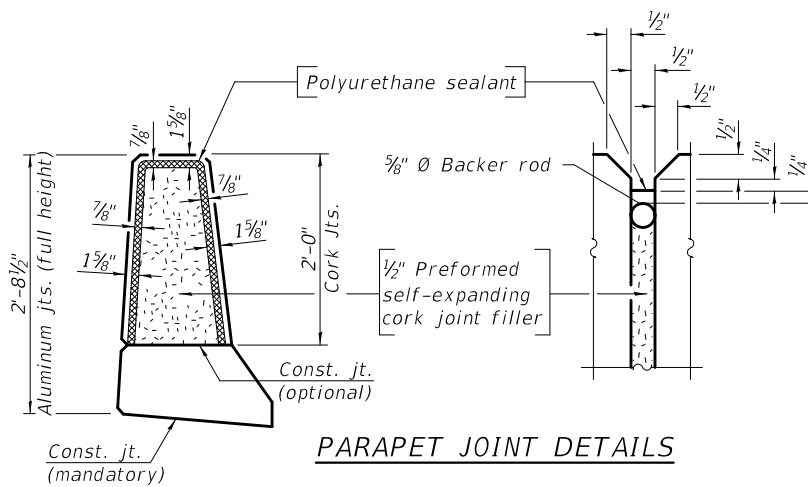
ILLINOIS FED. AID PROJECT



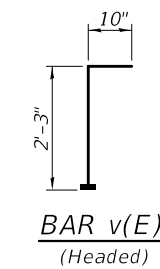
INSIDE ELEVATION OF PARAPET



SECTION THRU PARAPET



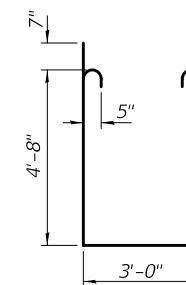
PARAPET JOINT DETAILS



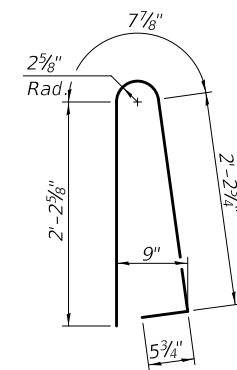
BAR v(E)  
(Headed)



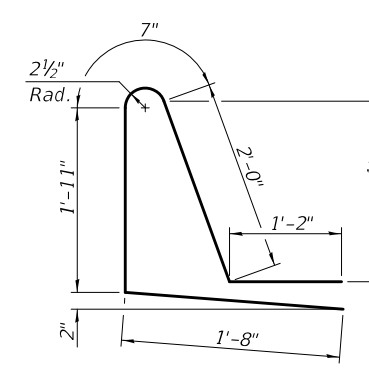
BAR s(E)  
(Headed)



BAR s1(E)



BAR d(E)



BAR d1(E)

SUPERSTRUCTURE  
BILL OF MATERIAL

Bar	No.	Size	Length	Shape
a(E)	363	#5	15'-8"	—
a1(E)	252	#5	15'-8"	—
a2(E)	363	#5	18'-9"	—
a3(E)	252	#5	18'-9"	—
a4(E)	720	#6	6'-6"	—
a5(E)	4	#5	15'-8"	—
a6(E)	4	#5	18'-9"	—
b(E)	304	#5	29'-6"	—
b1(E)	35	#6	58'-2"	—
b2(E)	369	#5	26'-8"	—
d(E)	460	#5	5'-7"	U
d1(E)	460	#5	7'-4"	U
e(E)	168	#4	14'-10"	—
e1(E)	28	#4	14'-6"	—
e2(E)	12	#8	34'-2"	—
e3(E)	4	#8	14'-6"	—
e4(E)	16	#4	24'-6"	—
e5(E)	4	#4	14'-6"	—
m(E)	10	#6	18'-9"	—
m1(E)	10	#6	15'-8"	—
m2(E)	32	#6	5'-8"	—
m3(E)	16	#6	2'-3"	—
m4(E)	24	#5	4'-0"	—
m5(E)	8	#6	4'-2"	—
s(E)	66	#5	8'-5"	U
s1(E)	66	#5	13'-6"	U
v(E)	70	#5	3'-1"	L
Reinforcement Bars, Epoxy Coated		Lbs.	64340	
Concrete Superstructure		Cu. Yd.	273.1	
Bar Splicers		Each	629	

Bars indicated thus 1 x 2-#8 etc. indicates 1 line of bars with 2 lengths per line.

Notes:  
 The 1/8" Aluminum sheet shall be ASTM B 209 alloy 3003-H14 and coated to minimize reaction with wet concrete. Cost included with Concrete Superstructure.  
 The Polyurethane Sealant shall be according to Article 1050.04 of the Std. Spec. and the color shall be gray.  
 Headed bars shall conform to ASTM A970 with threaded attachment; Class HA; and reinforcement bars conforming to ASTM A706. Cost included with Reinforcement Bars, Epoxy Coated.

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 CHECKED - RDP 06/18  
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 CHECKED - KJA 10/18

REVISED -  
 REVISED -  
 REVISED -  
 REVISED -

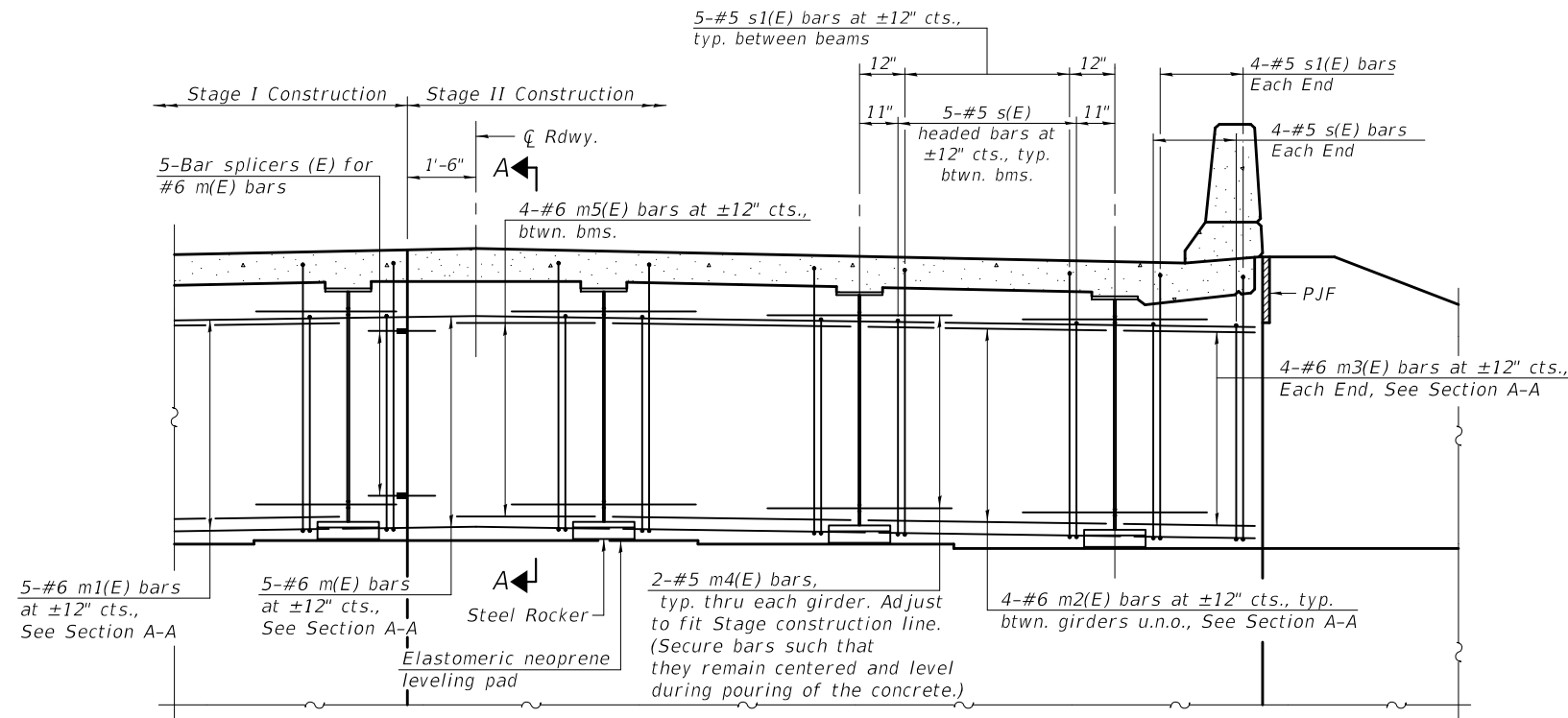
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

SUPERSTRUCTURE DETAILS  
STRUCTURE NO. 041-0113

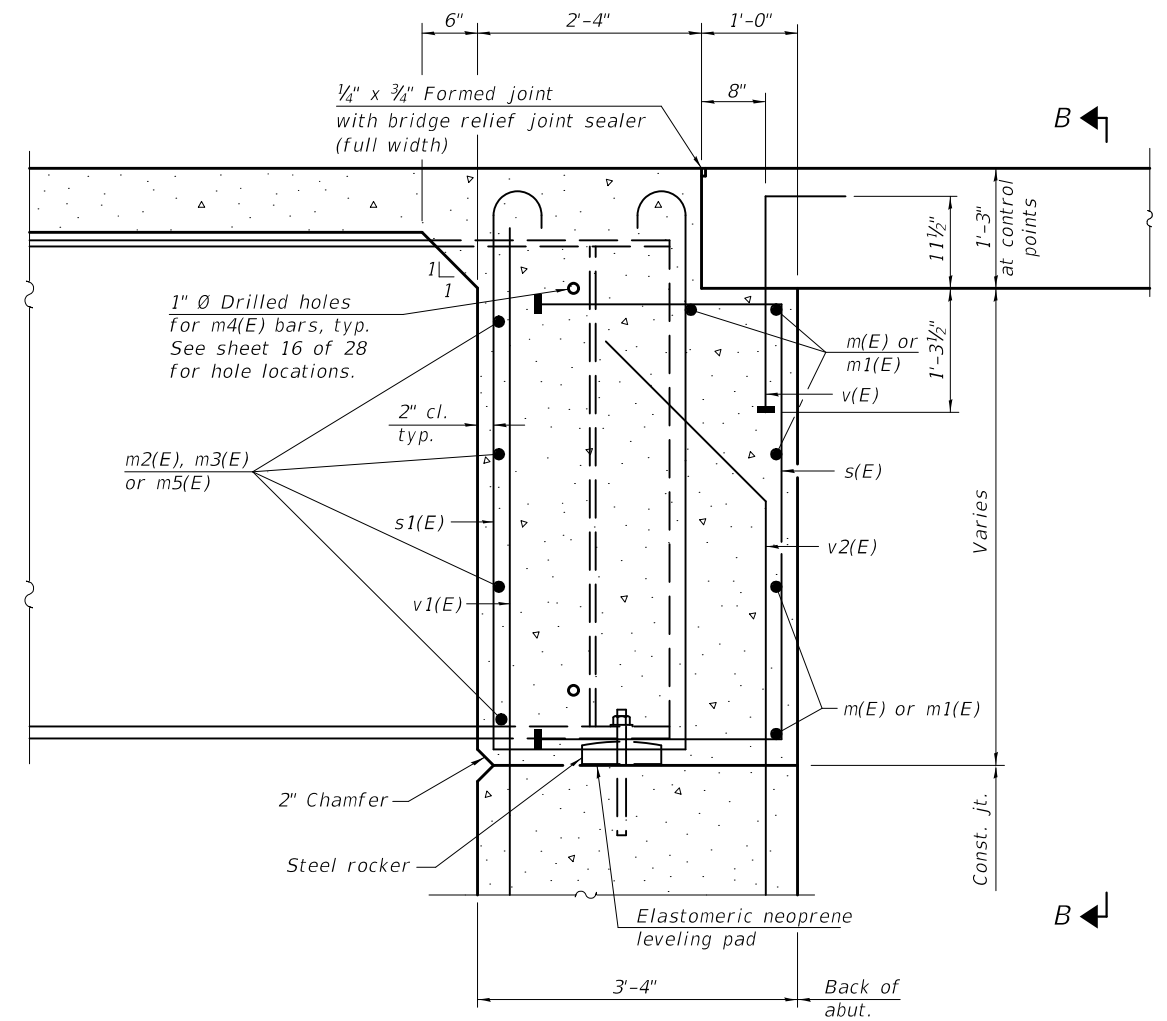
SHEET NO. 12 OF 28 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	(41-1)BR-1	JEFFERSON	92	55
CONTRACT NO. 78455				

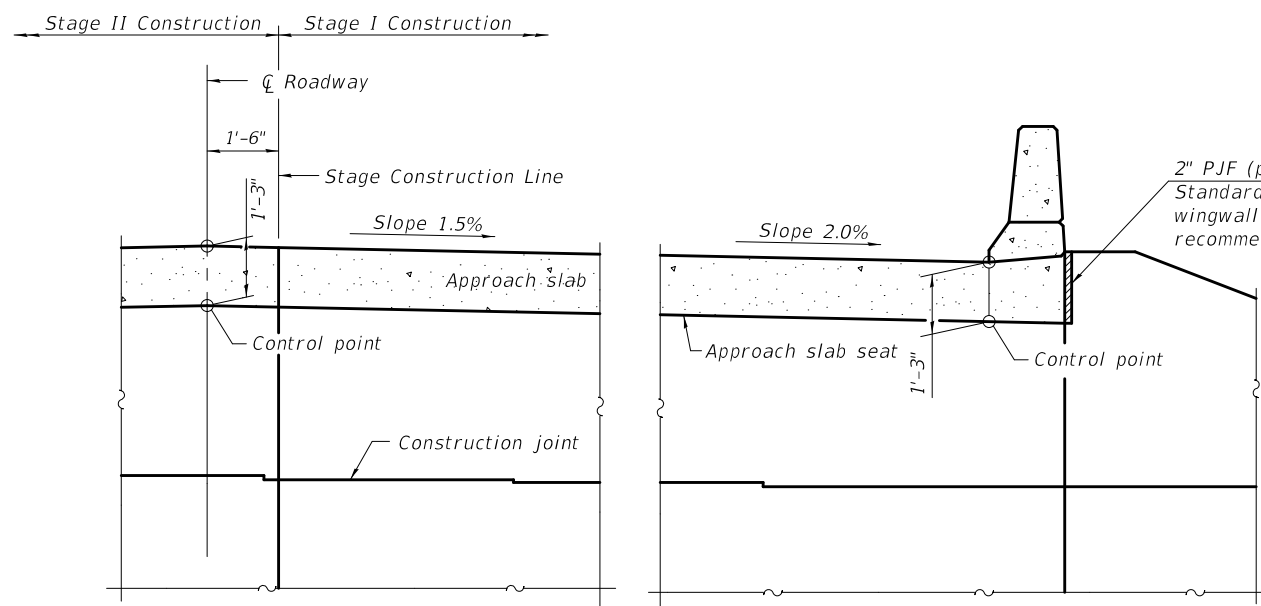
ILLINOIS FED. AID PROJECT



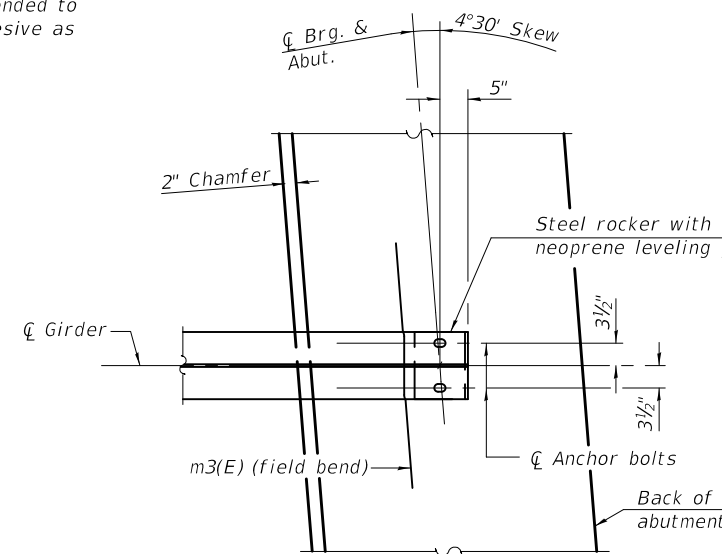
**DIAPHRAGM AT ABUTMENT**  
(Looking East at East Abutment)



**SECTION A-A**  
(at Rt. L's)



**SECTION B-B**  
(Looking West)



**PLAN AT ABUTMENT**  
(Showing bottom flange of girder)

Notes:  
 Reinforcement bars in diaphragm are billed with superstructure on sheet 12 of 28.  
 Concrete in diaphragm is included with Concrete Superstructure on sheet 12 of 28.  
 For details of bars s(E), s1(E) and v(E), see sheet 12 of 28.  
 For details of bars v1(E) and v2(E), see sheet 21 and 22 of 28.  
 The s(E) and s1(E) bars shall be placed parallel to the beams. Spacing for these bars shall be at right angles to the beams.  
 The approach slab seat shall have a constant slope determined from the control points shown.  
 For bearing details see sheet 20 of 28.  
 Beams shall be braced for stability during erection and remain braced until deck is poured and cured.

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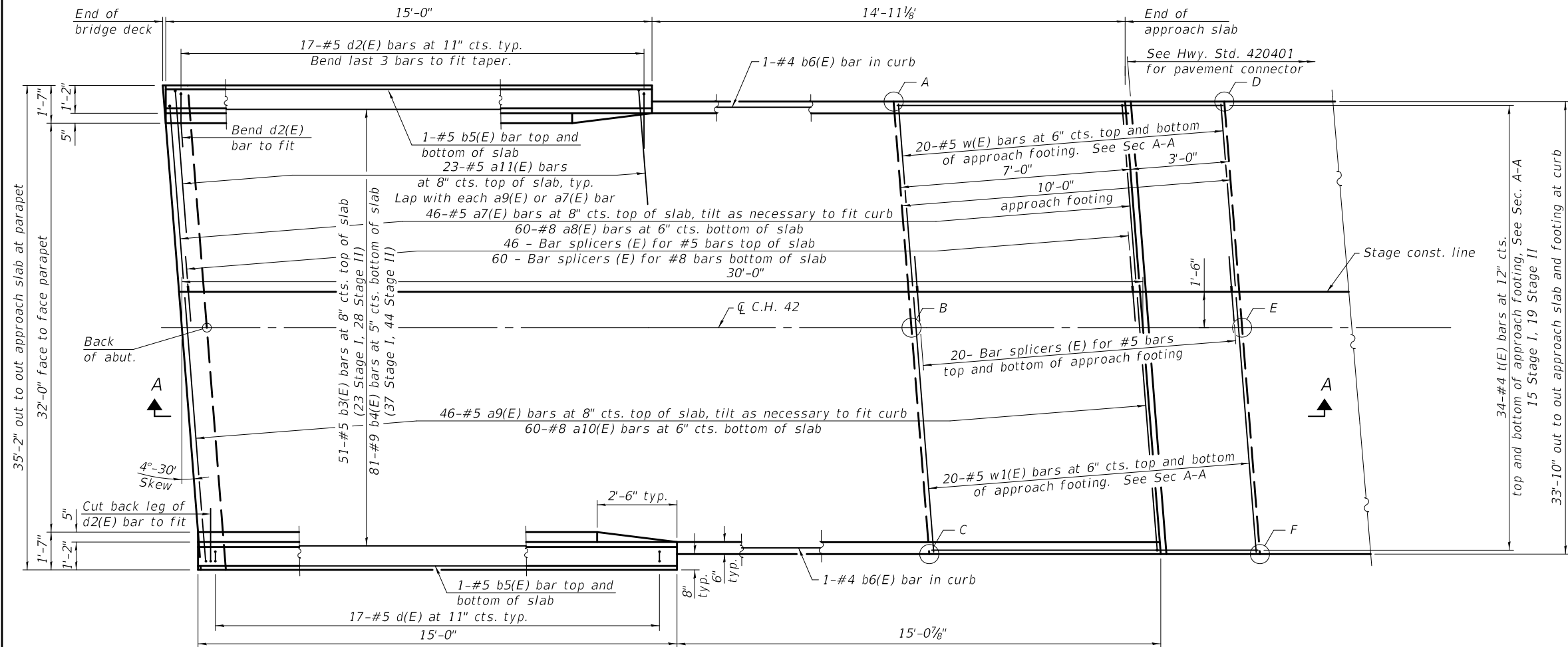
**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

**DIAPHRAGM DETAILS**  
**STRUCTURE NO. 041-0113**

SHEET NO. 13 OF 28 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	(41-1)BR-1	JEFFERSON	92	56
CONTRACT NO. 78455				
ILLINOIS FED. AID PROJECT				

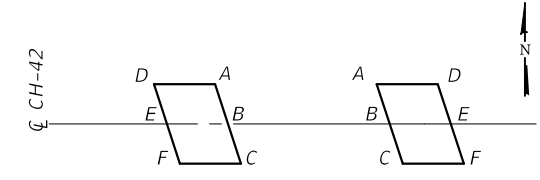




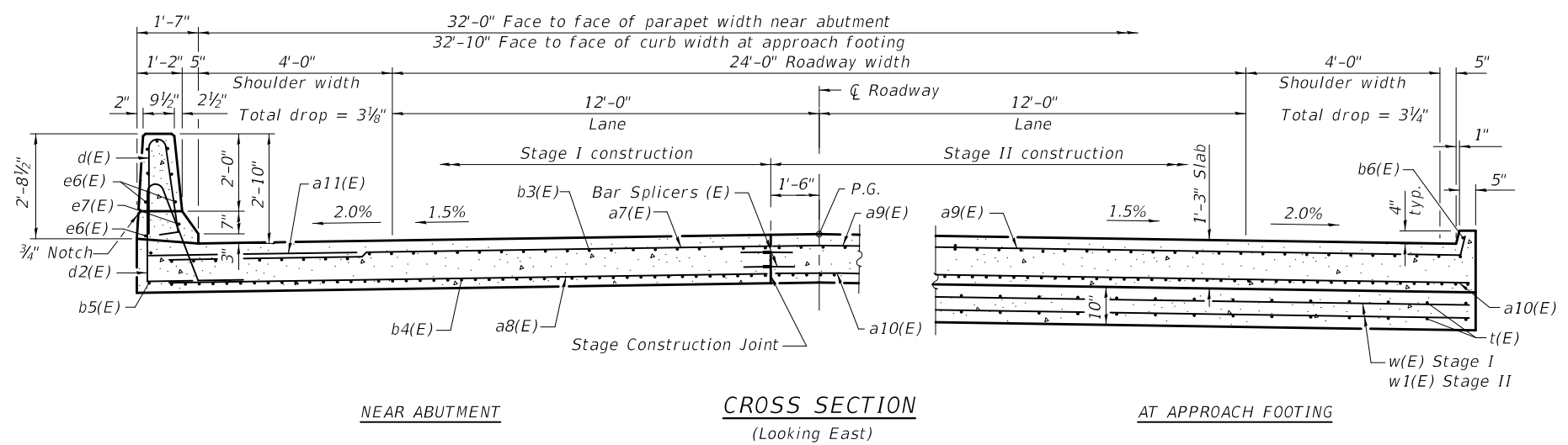
**PLAN**  
(Showing East Approach - West Approach similar)

**TOP AND BOTTOM ELEVATIONS FOR APPROACH FOOTING**

Point	West Approach		East Approach	
	Top	Bottom	Top	Bottom
A	439.92	439.09	440.58	439.75
B	440.25	439.42	440.82	439.99
C	440.02	439.19	440.50	439.67
D	439.56	438.73	440.26	439.43
E	439.89	439.06	440.50	439.67
F	439.66	438.83	440.18	439.35



**PLAN**



**NEAR ABUTMENT**

**CROSS SECTION**  
(Looking East)

**AT APPROACH FOOTING**

(Sheet 1 of 2)

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

**BRIDGE APPROACH SLAB DETAILS**  
**STRUCTURE NO. 041-0113**

SHEET NO. 14 OF 28 SHEETS

F.A.I. RTE. 57	SECTION (41-1)BR-1	COUNTY JEFFERSON	TOTAL SHEETS 92	SHEET NO. 57
CONTRACT NO. 78455			ILLINOIS FED. AID PROJECT	

Notes:

The joint opening shall be adjusted for temperature per Article 520.04 of the Standard Specifications. However, since this detail is for jointless structures, the length of bridge used to calculate the adjustment shall be equal to half the total bridge length plus the length of the bridge approach slab.

Parapet concrete shall be paid for as Concrete Superstructure.

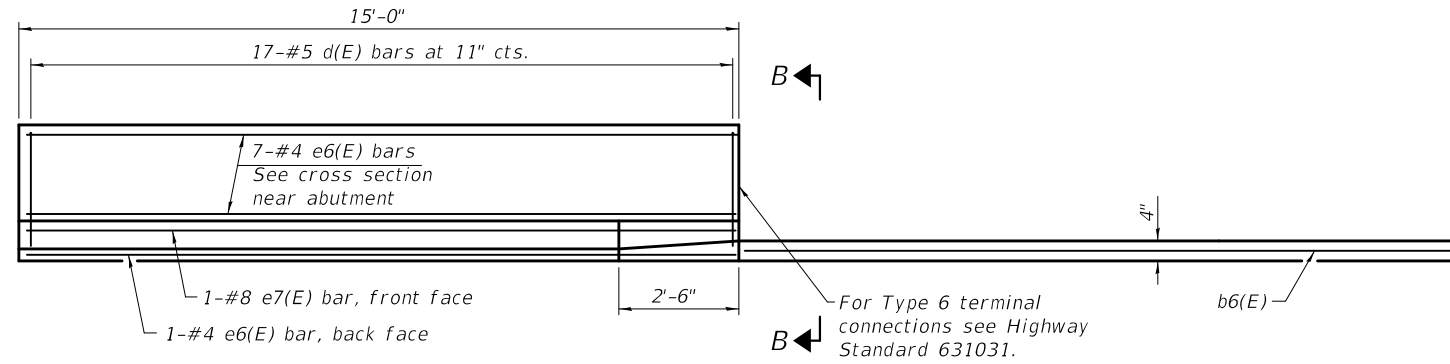
Approach slab shall be paid for as Concrete Superstructure (Approach Slab).

Approach footing concrete shall be paid for as Concrete Structures.

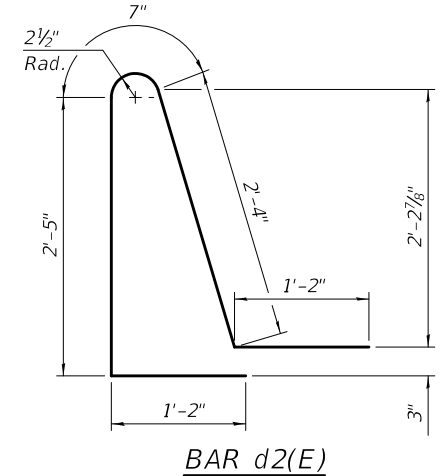
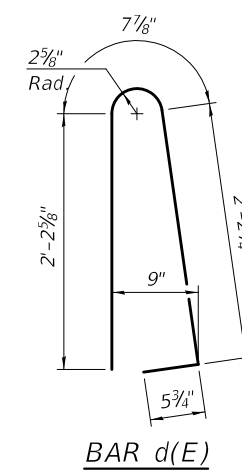
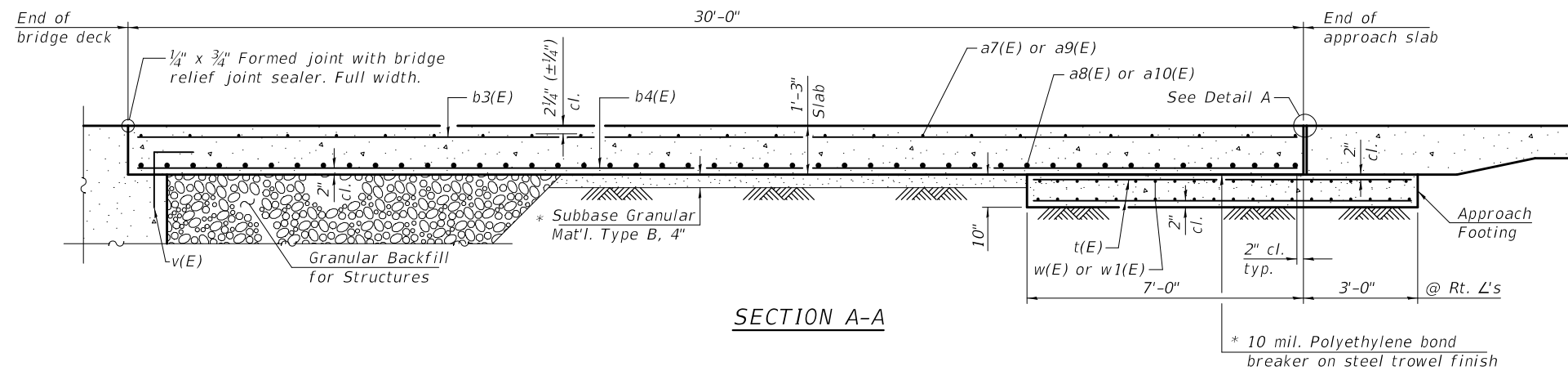
The approach footing maximum applied service bearing pressure ( $Q_{max}$ ) = 2.0 ksf.

Cost of excavation for approach footing included with Concrete Structures.

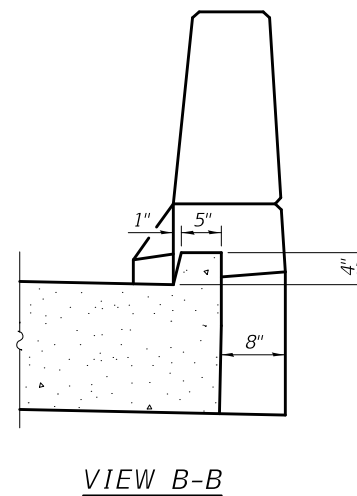
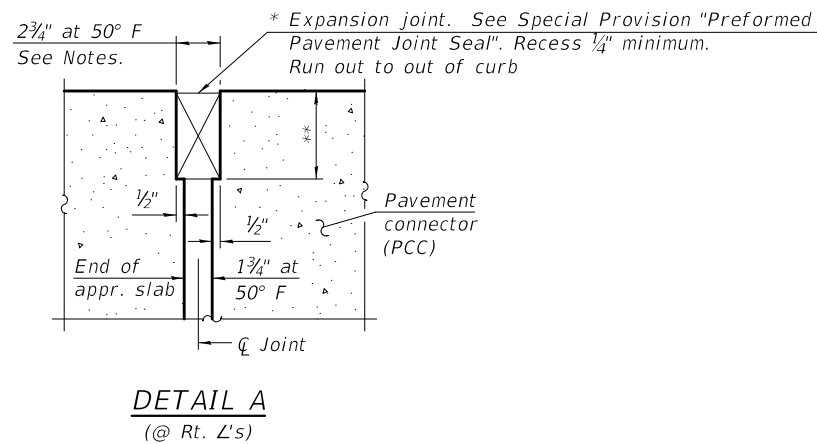
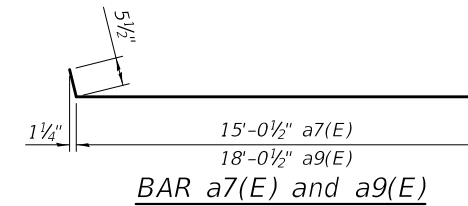
For Granular Backfill for Structures and drainage treatment details, see sheet 2 of 28.



INSIDE ELEVATION OF PARAPET AND CURB



TWO APPROACHES  
BILL OF MATERIAL



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

\*\* Per manufacturer recommendations

Bar	No.	Size	Length	Shape
a7(E)	92	#5	15'-6"	—
a8(E)	120	#8	15'-2"	—
a9(E)	92	#5	18'-6"	—
a10(E)	120	#8	18'-2"	—
a11(E)	92	#5	7'-4"	—
b3(E)	102	#5	29'-8"	—
b4(E)	162	#9	29'-8"	—
b5(E)	8	#5	14'-8"	—
b6(E)	4	#4	14'-8"	—
d(E)	68	#5	5'-7"	U
d2(E)	68	#5	7'-8"	U
e6(E)	32	#4	14'-8"	—
e7(E)	4	#8	14'-8"	—
t(E)	136	#4	9'-8"	—
w(E)	80	#5	15'-2"	—
w1(E)	80	#5	18'-2"	—
Concrete Superstructure		Cu. Yd.	6.7	
Concrete Superstructure (Approach Slab)		Cu. Yd.	96.5	
Concrete Structures		Cu. Yd.	21.0	
Reinforcement Bars, Epoxy Coated		Pound	39380	
Bar Splicers		Each	292	

(Sheet 2 of 2)

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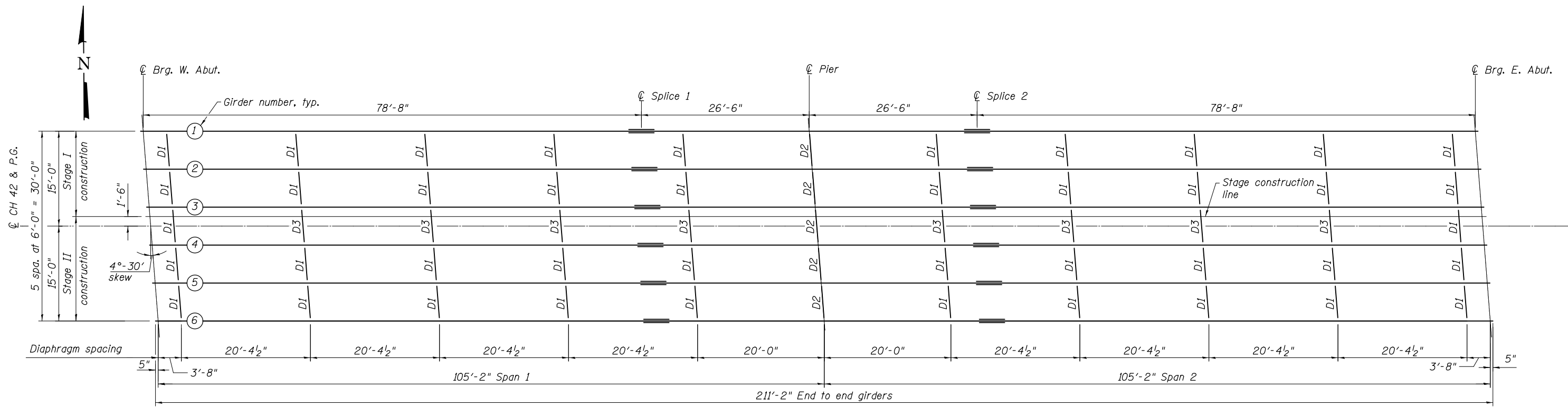
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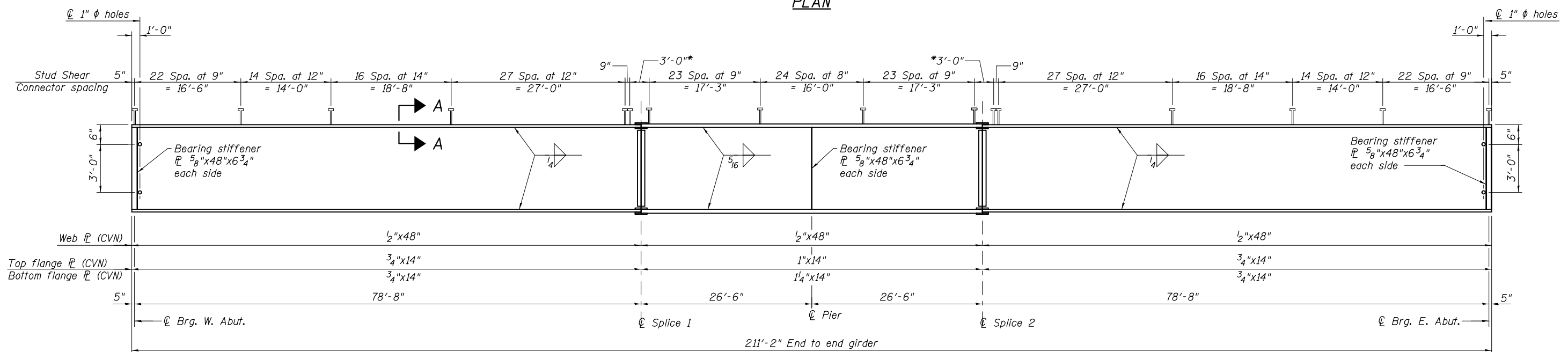
BRIDGE APPROACH SLAB DETAILS  
STRUCTURE NO. 041-0113

SHEET NO. 15 OF 28 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	(41-1)BR-1	JEFFERSON	92	58
CONTRACT NO. 78455			ILLINOIS FED. AID PROJECT	



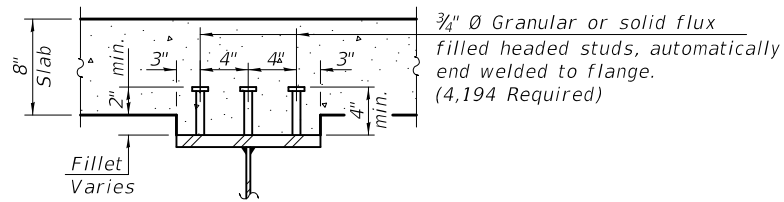
PLAN



GIRDER ELEVATION

TOP OF WEB ELEVATIONS  
(For fabrication only)

Girder	¢ Brg. W. Abut.	¢ Splice 1	¢ Pier	¢ Splice 2	¢ Brg. E. Abut.
1	441.17	442.67	442.74	442.81	441.70
2	441.29	442.78	442.85	442.91	441.79
3	441.40	442.88	442.94	443.00	441.87
4	441.41	442.88	442.94	442.99	441.86
5	441.33	442.79	442.85	442.90	441.76
6	441.24	442.69	442.74	442.79	441.64



SECTION A-A

Notes: Elevations shown do not include deflection and are intended only for use in fabrication of steel girders.

Notes:  
See sheet 17 to 19 of 28 for additional steel details.  
All diaphragms shall be installed as steel is erected and secured with erection pins and bolts except as otherwise noted. Individual diaphragms at supports may be temporarily disconnected to install bearing anchor rods.  
Load carrying components designated (CVN) denotes Charpy-V-Notch impact energy requirements, Zone 2.  
AASHTO M270 grade 50 steel shall be used for all flange plates, web plates, bearing stiffeners, and diaphragm connecting plates.

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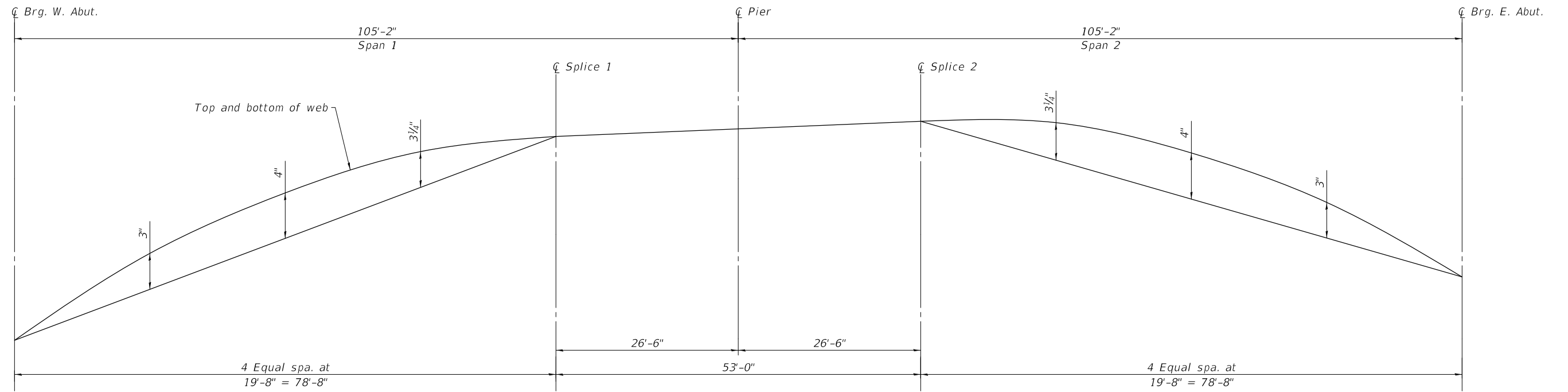
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STEEL FRAMING PLAN & DETAILS  
STRUCTURE NO. 041-0113

SHEET NO. 16 OF 28 SHEETS

F.A.I. RTE. 57	SECTION (41-1BR-1)	COUNTY JEFFERSON	TOTAL SHEETS 92	SHEET NO. 59
CONTRACT NO. 78455				
ILLINOIS FED. AID PROJECT				



CAMBER DIAGRAM - GIRDERS 1 THROUGH 6

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**CAMBER DIAGRAM**  
**STRUCTURE NO. 041-0113**

SHEET NO. 17 OF 28 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	(41-1)BR-1	JEFFERSON	92	60
CONTRACT NO. 78455			ILLINOIS FED. AID PROJECT	

	GIRDER REACTION TABLE			
	Abut.		Pier	
	Interior	Exterior	Interior	Exterior
LLDF	0.6706	0.4694	0.6706	0.4694
OCF	1.100	1.100	-	-
R <sub>DC1</sub> (k)	30.1	29.5	108.1	106.7
R <sub>DC2</sub> (k)	5.7	5.8	20.2	20.0
R <sub>DW</sub> (k)	11.4	11.8	40.3	40.1
R <sub>±</sub> (k)	60.2	42.1	129.3	90.5
R <sub>IM</sub> (k)	18.2	10.1	22.3	16.6
R <sub>Total</sub> (k)	125.6	99.3	320.2	273.9

	INTERIOR GIRDER MOMENT TABLE	
	0.4 Sp. 1 or 0.6 Sp. 2	Pier
I <sub>s</sub> (in <sup>4</sup> )	17086	23487
I <sub>c(n)</sub> (in <sup>4</sup> )	41569	54644
I <sub>c(3n)</sub> (in <sup>4</sup> )	30835	40066
I <sub>c(cr)</sub> (in <sup>4</sup> )	-	29426
S <sub>s</sub> (in <sup>3</sup> )	690.3	883.5
S <sub>c(n)</sub> (in <sup>3</sup> )	968.9	1321.2
S <sub>c(3n)</sub> (in <sup>3</sup> )	880.7	1209.5
S <sub>c(cr)</sub> (in <sup>3</sup> )	-	1087.4
DC1 (k/ft)	0.778	0.814
MDC1 (k)	569.6	1216.0
DC2 (k/ft)	0.15	0.15
MDC2 (k)	107.7	228.7
DW (k/ft)	0.30	0.30
MDW (k)	215.3	457.3
LLDF	0.5116	0.5116
M <sub>± + IM</sub> (k)	1214.0	1250.6
M <sub>u</sub> (Strength I) (k)	3294.1	4680.2
Øf M <sub>n</sub> (k)	4815.1	4863.4
f <sub>s</sub> DC1 (ksi)	9.9	16.5
f <sub>s</sub> DC2 (ksi)	1.5	2.3
f <sub>s</sub> DW (ksi)	3.0	4.9
f <sub>s</sub> (±+IM) (ksi)	15.0	13.8
f <sub>s</sub> (Service II) (ksi)	33.9	41.2
0.95R <sub>h</sub> F <sub>yf</sub> (ksi)	47.5	47.5
f <sub>s</sub> (Total)(Strength I)(ksi)	-	-
Øf F <sub>n</sub> (ksi)	-	-
V <sub>f</sub> (k)	193.3	299.3

I<sub>s</sub>, S<sub>s</sub>: Non-composite moment of inertia and section modulus of the steel section used for computing f<sub>s</sub>(Total-Strength I, and Service II) due to non-composite dead loads (in<sup>4</sup> and in<sup>3</sup>).

I<sub>c(n)</sub>, S<sub>c(n)</sub>: Composite moment of inertia and section modulus of the steel and deck based upon the modular ratio, "n", used for computing f<sub>s</sub>(Total-Strength I, and Service II) in uncracked sections due to short-term composite live loads (in<sup>4</sup> and in<sup>3</sup>).

I<sub>c(3n)</sub>, S<sub>c(3n)</sub>: Composite moment of inertia and section modulus of the steel and deck based upon 3 times the modular ratio, "3n", used for computing f<sub>s</sub>(Total-Strength I, and Service II) in uncracked sections, due to long-term composite (superimposed) dead loads (in<sup>4</sup> and in<sup>3</sup>).

I<sub>c(cr)</sub>, S<sub>c(cr)</sub>: Composite moment of inertia and section modulus of the steel and longitudinal deck reinforcement, used for computing f<sub>s</sub> (Total-Strength I and Service II) in cracked sections, due to both short-term composite live loads and long-term composite (superimposed) dead loads (in<sup>4</sup> and in<sup>3</sup>).

DC1: Un-factored non-composite dead load (kips/ft.).

MDC1: Un-factored moment due to non-composite dead load (kip-ft.).

DC2: Un-factored long-term composite (superimposed excluding future wearing surface) dead load (kips/ft.).

MDC2: Un-factored moment due to long-term composite (superimposed excluding future wearing surface) dead load (kip-ft.).

DW: Un-factored long-term composite (superimposed future wearing surface only) dead load (kips/ft.).

MDW: Un-factored moment due to long-term composite (superimposed future wearing surface only) dead load (kip-ft.).

M<sub>± + IM</sub>: Un-factored live load moment plus dynamic load allowance (impact) (kip-ft.).

M<sub>u</sub> (Strength I): Factored design moment (kip-ft.).

1.25 (MDC1 + MDC2) + 1.5 MDW + 1.75 M<sub>± + IM</sub>

Øf M<sub>n</sub>: Compact composite positive moment capacity computed according to Article 6.10.7.1 or non-slender negative moment capacity according to Article A6.1.1 or A6.1.2 (kip-ft.).

f<sub>s</sub> DC1: Un-factored stress at edge of flange for controlling steel flange due to vertical non-composite dead loads as calculated below (ksi).

MDC1 / S<sub>nc</sub>

f<sub>s</sub> DC2: Un-factored stress at edge of flange for controlling steel flange due to vertical composite dead loads as calculated below (ksi).

MDC2 / S<sub>c(3n)</sub> or MDC2 / S<sub>c(cr)</sub> as applicable.

f<sub>s</sub> DW: Un-factored stress at edge of flange for controlling steel flange due to vertical composite future wearing surface loads as calculated below (ksi).

MDW / S<sub>c(3n)</sub> or MDW / S<sub>c(cr)</sub> as applicable.

f<sub>s</sub> (±+IM): Un-factored stress at edge of flange for controlling steel flange due to vertical composite live load plus impact loads as calculated below (ksi).

M<sub>± + IM</sub> / S<sub>c(n)</sub> or M<sub>± + IM</sub> / S<sub>c(cr)</sub> as applicable.

f<sub>s</sub> (Service II): Sum of stresses as computed below (ksi).

f<sub>s</sub>DC1 + f<sub>s</sub>DC2 + f<sub>s</sub>DW + 1.3 f<sub>s</sub>(± + IM)

0.95R<sub>h</sub>F<sub>yf</sub>: Composite stress capacity for Service II loading according to Article 6.10.4.2 (ksi).

f<sub>s</sub> (Total)(Strength I): Sum of stresses as computed below on non-compact section (ksi).

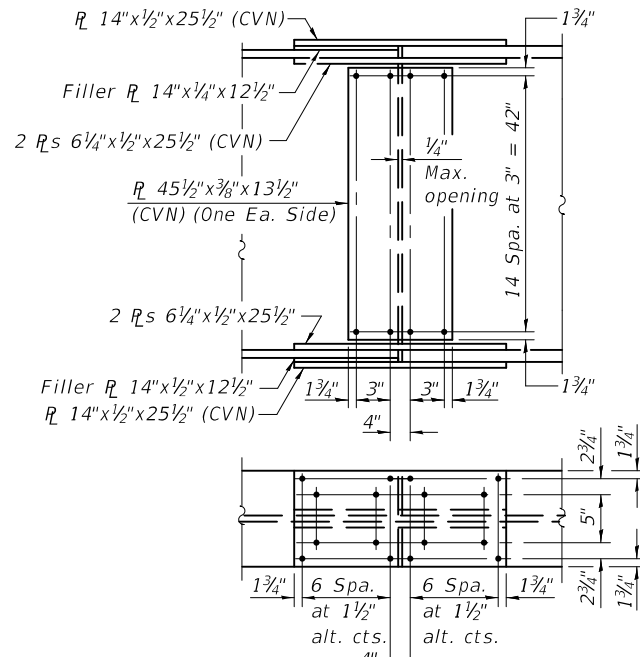
1.25 (f<sub>s</sub>DC1 + f<sub>s</sub>DC2) + 1.5 f<sub>s</sub>DW + 1.75 f<sub>s</sub>(± + IM)

Øf F<sub>n</sub>: Non-Compact composite positive or negative stress capacity for Strength I loading according to Article 6.10.7 or 6.10.8 (ksi).

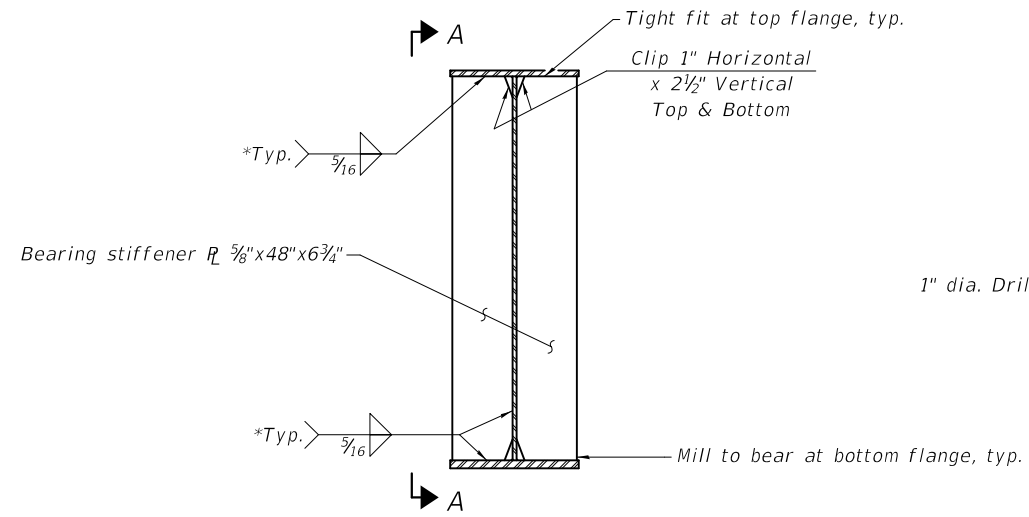
V<sub>f</sub>: Maximum factored shear range in span computed according to Article 6.10.10.

LLDF: Live Load Distribution factor computed according to Table 4.6.2.2b-1 and Table 4.6.2.2d-1.

OCF: Obtuse correction factor computed according to Table 4.6.2.2c-1 or as simplified in Section 3.3.1 of the Bridge Manual.



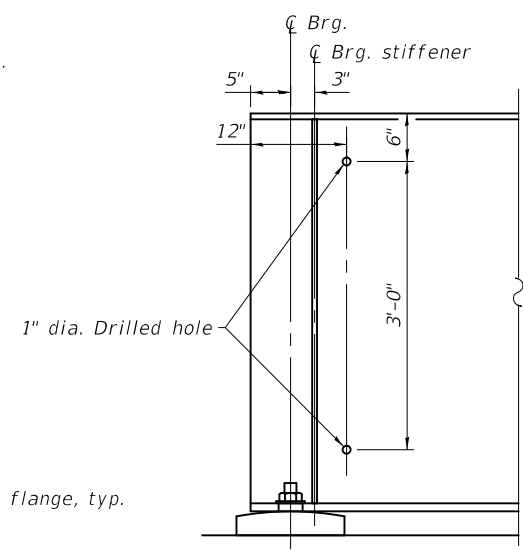
**FIELD SPLICE DETAIL**



**BEARING STIFFENER DETAIL AT ABUTMENTS**

(12 Required)

\* Terminate 1/4" (± 1/8") from ends of plate inserts



**VIEW A-A**

(Sheet 1 of 2)

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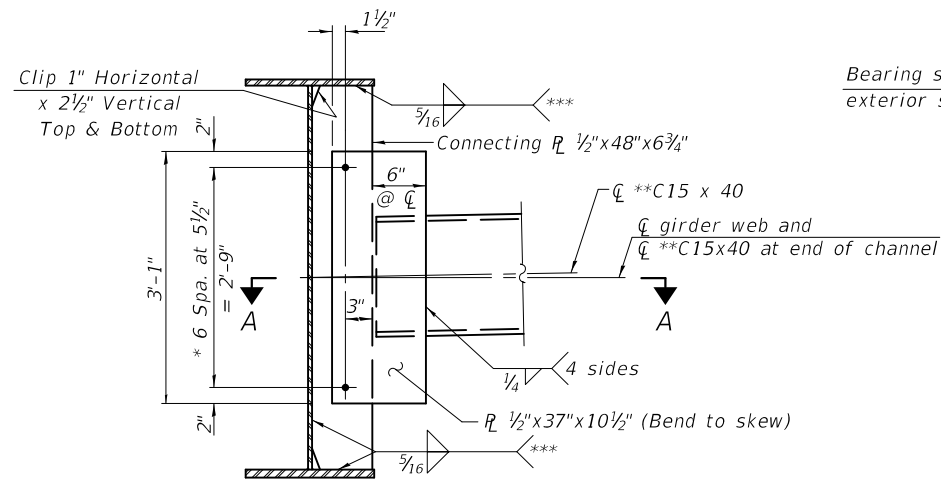
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**DEPARTMENT OF TRANSPORTATION**

**STEEL FRAMING DETAILS**  
**STRUCTURE NO. 041-0113**

SHEET NO. 18 OF 28 SHEETS

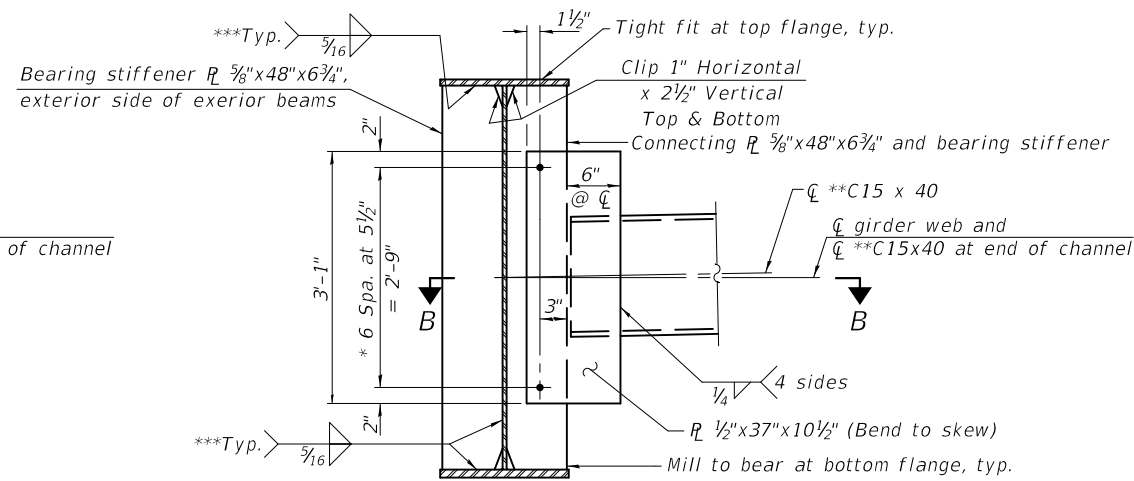
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57	(41-1)BR-1	JEFFERSON	92	61
CONTRACT NO. 78455				
ILLINOIS FED. AID PROJECT				



**INTERIOR DIAPHRAGM (D1)**  
(42 Required)

Note:

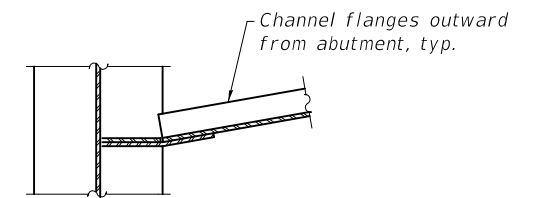
- Two hardened washers required for each set of oversized holes.
- $\frac{3}{4}$ "  $\emptyset$  HS bolts,  $\frac{1}{16}$ "  $\emptyset$  holes
- \*\* Alternate channels C15x50 are permitted to facilitate material acquisition. Calculated weight of structural steel is based on C15x40 sections. The alternate, if utilized, shall be provided at no extra cost to the department.
- \*\*\* Terminate  $\frac{1}{4}$ " ( $\pm \frac{1}{8}$ ") from ends of plate intersects.



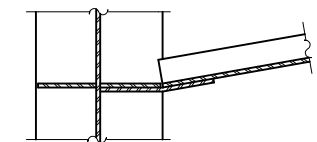
**INTERIOR DIAPHRAGM (D2)**  
(5 Required)

Note:

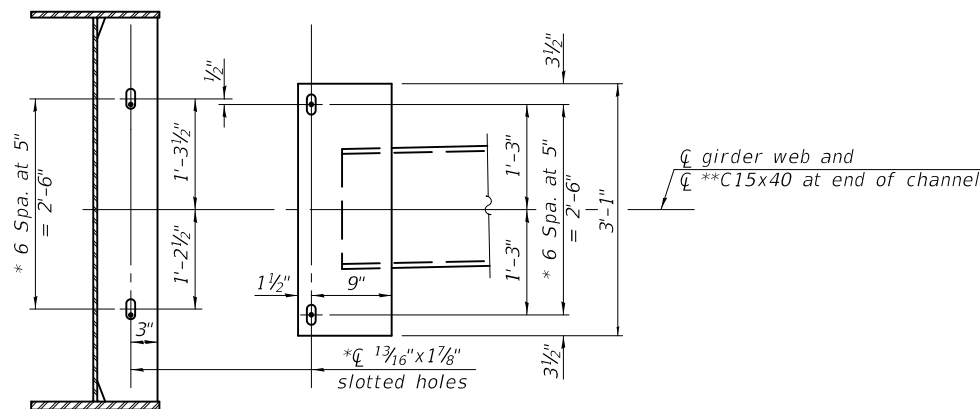
- Two hardened washers required for each set of oversized holes.
- $\frac{3}{4}$ "  $\emptyset$  HS bolts,  $\frac{1}{16}$ "  $\emptyset$  holes
- \*\* Alternate channels C15x50 are permitted to facilitate material acquisition. Calculated weight of structural steel is based on C15x40 sections. The alternate, if utilized, shall be provided at no extra cost to the department.
- \*\*\* Terminate  $\frac{1}{4}$ " ( $\pm \frac{1}{8}$ ") from ends of plate intersects.



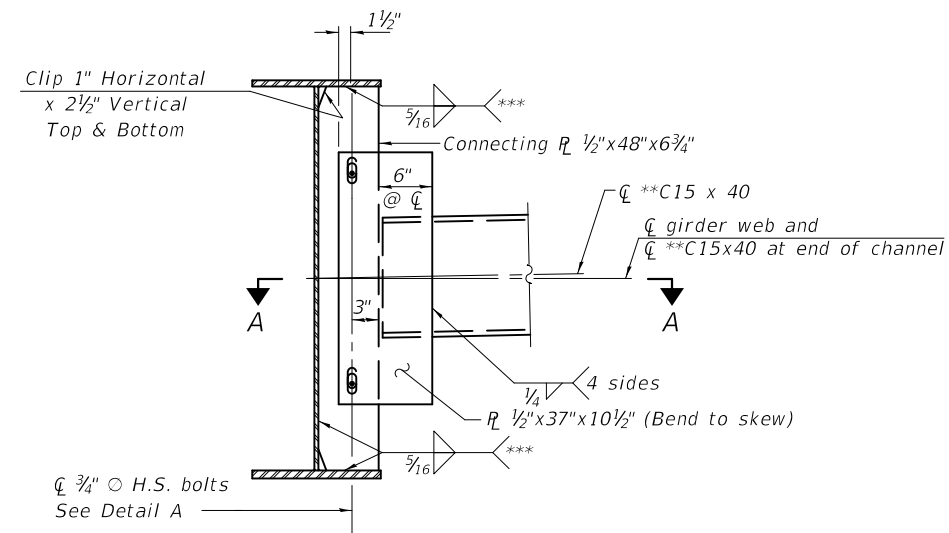
**SECTION A-A**



**SECTION B-B**



**DETAIL A**



**INTERIOR DIAPHRAGM (D3)**  
(8 Required)

(Looking West, showing Stage II connection)

Note:

- Two hardened washers required for each set of oversized holes.
- Bolts in slots shall be finger tight until the second stage pour is complete.
- $\frac{3}{4}$ "  $\emptyset$  HS bolts,  $\frac{1}{16}$ "  $\emptyset$  holes Stage I connection,  $\frac{1}{16}$ " x  $\frac{1}{8}$ " long slot holes in Stage II connection. Position slots as shown with no concrete load.
- \*\* Alternate channels C15x50 are permitted to facilitate material acquisition. Calculated weight of structural steel is based on C15x40 sections. The alternate, if utilized, shall be provided at no extra cost to the department.
- \*\*\* Terminate  $\frac{1}{4}$ " ( $\pm \frac{1}{8}$ ") from ends of plate intersects

(Sheet 2 of 2)

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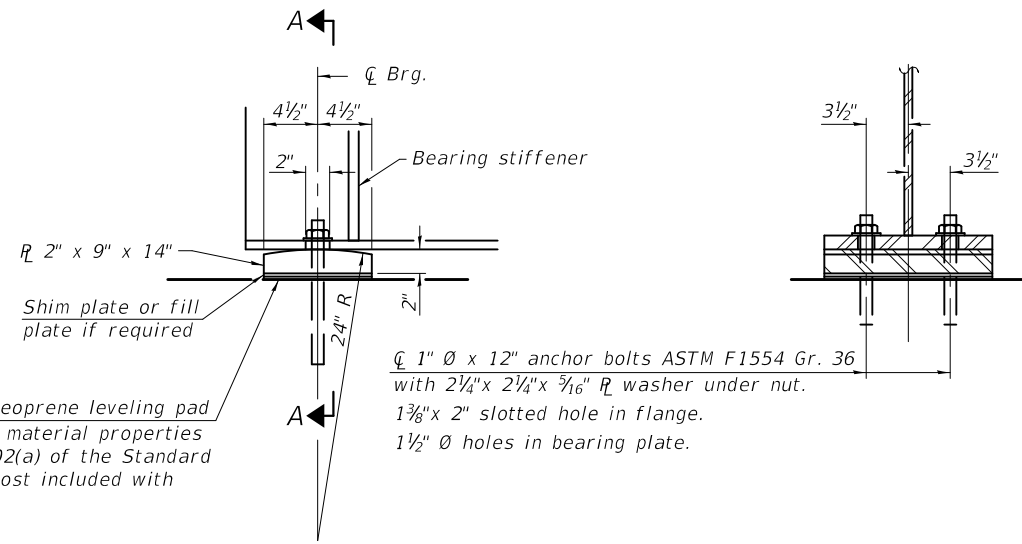
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**STEEL FRAMING DETAILS  
STRUCTURE NO. 041-0113**

SHEET NO. 19 OF 28 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	(41-1)BR-1	JEFFERSON	92	62
CONTRACT NO. 78455				

ILLINOIS FED. AID PROJECT



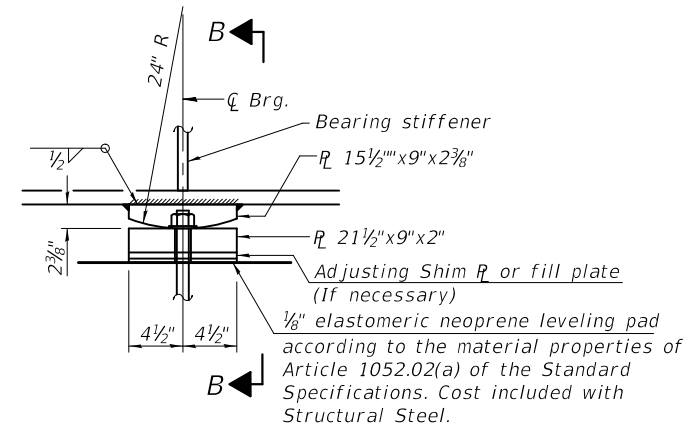
ELEVATION AT ABUTMENT

SECTION A-A

FIXED BEARING AT ABUTMENT

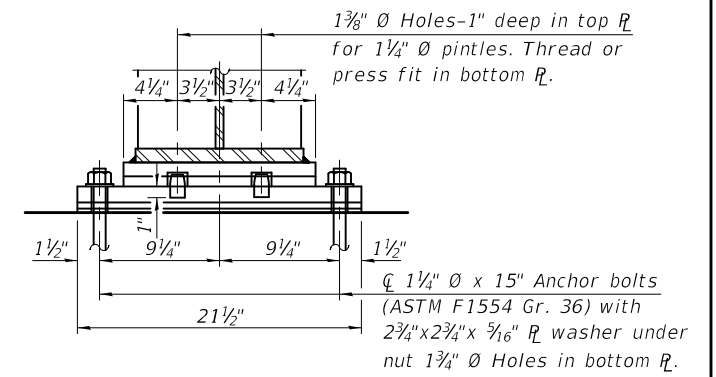
1/8" elastomeric neoprene leveling pad according to the material properties of Article 1052.02(a) of the Standard Specifications. Cost included with Structural Steel.

1"  $\phi$  x 12" anchor bolts ASTM F1554 Gr. 36 with 2 1/4" x 2 1/4" x 5/16" R washer under nut. 1 3/8" x 2" slotted hole in flange. 1 1/2"  $\phi$  holes in bearing plate.

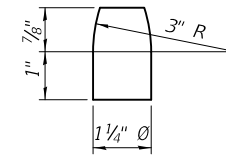


ELEVATION AT PIER

FIXED BEARING AT PIER



SECTION B-B



PINTLE

BEARING FILL PLATES

Location	Thickness
West Abutment Beam 4	1/8"
East Abutment Beam 3	1/8"

**Notes:**

Anchor bolts shall be according to Article 521.06 of the Standard Specifications. Beams shall be braced for stability during erection and remain braced until deck is poured and cured.

Anchor bolts at all supports shall be installed as each member is erected unless an equivalent temporary means of lateral restraint is used.

Anchor bolts shall be ASTM F1554 all-thread (or an Engineer-approved alternate material) of the grade(s) and diameter(s) specified. The corresponding specified grade of AASHTO M314 anchor bolts may be used in lieu of ASTM F1554.

Two 1/8 in. adjusting shims shall be provided for each bearing in addition to all other plates or shims and placed as shown on bearing details.

The anchor bolt sizes and grades shown at the pier constitute a calculated seismic structural fuse. Substitution of higher diameter and/or grade anchor bolts will not be allowed.

Fill plates are required at the location shown in the table on this sheet and shall be placed as shown on the bearing details.

BILL OF MATERIAL

Item	Unit	Total
Anchor Bolts, 1"	Each	24
Anchor Bolts, 1 1/4"	Each	12

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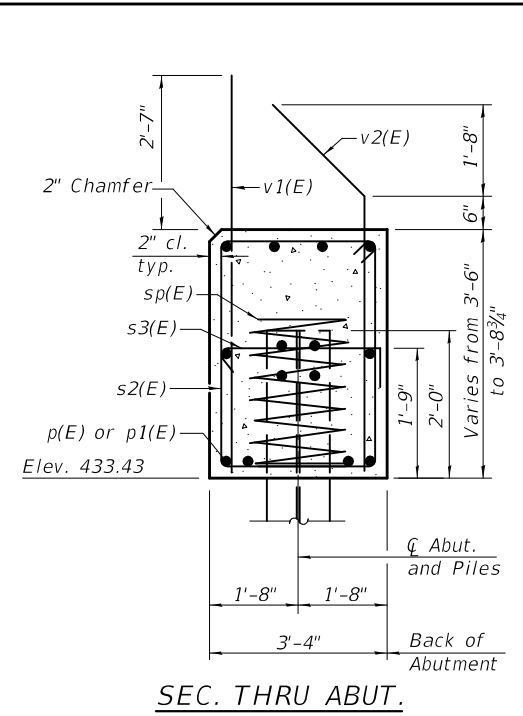
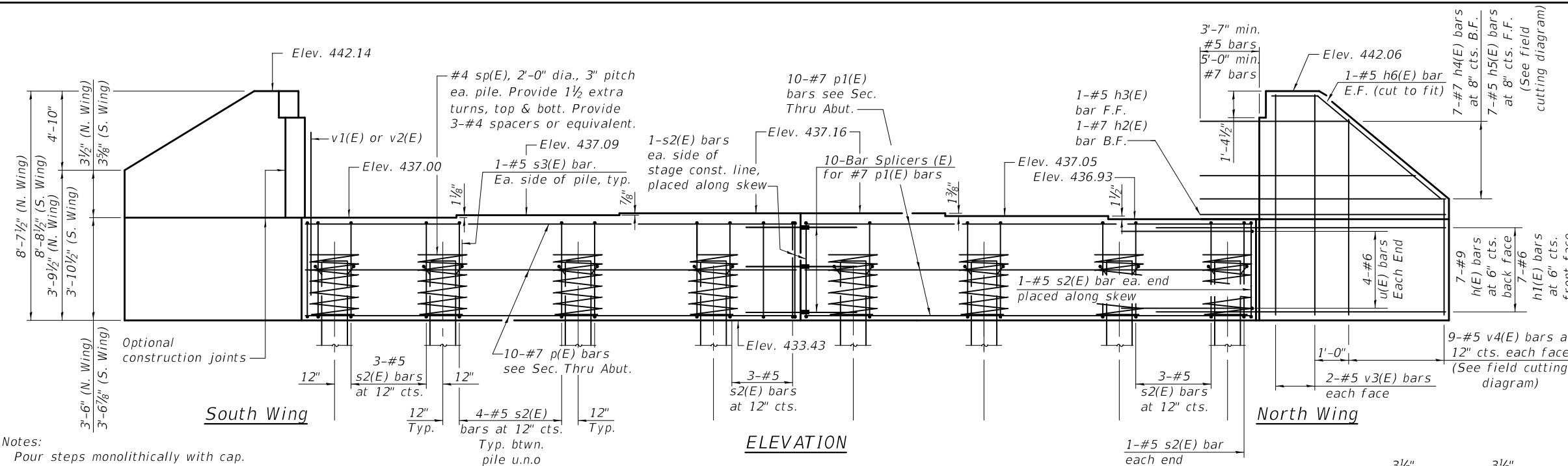
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**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

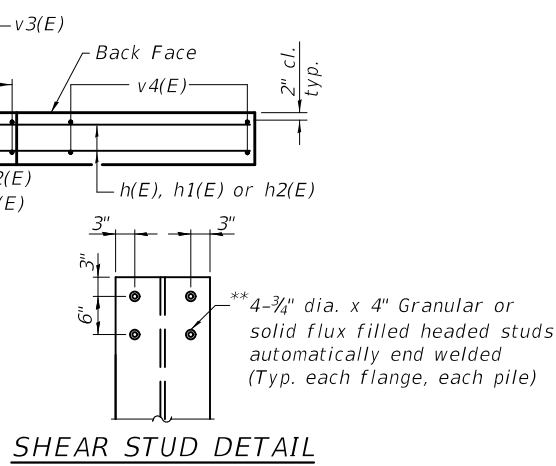
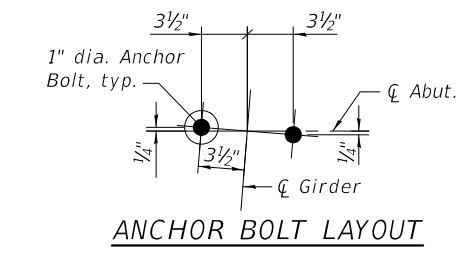
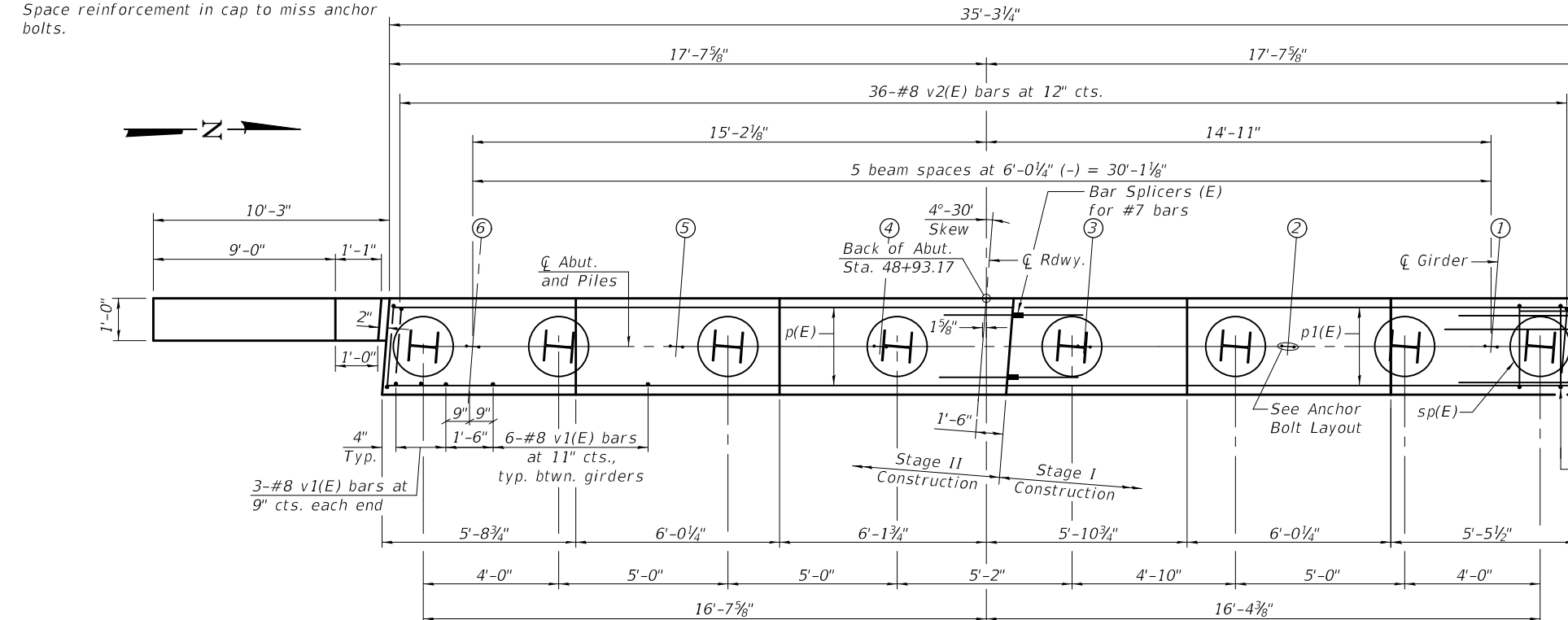
**BEARING DETAILS  
STRUCTURE NO. 041-0113**

SHEET NO. 20 OF 28 SHEETS

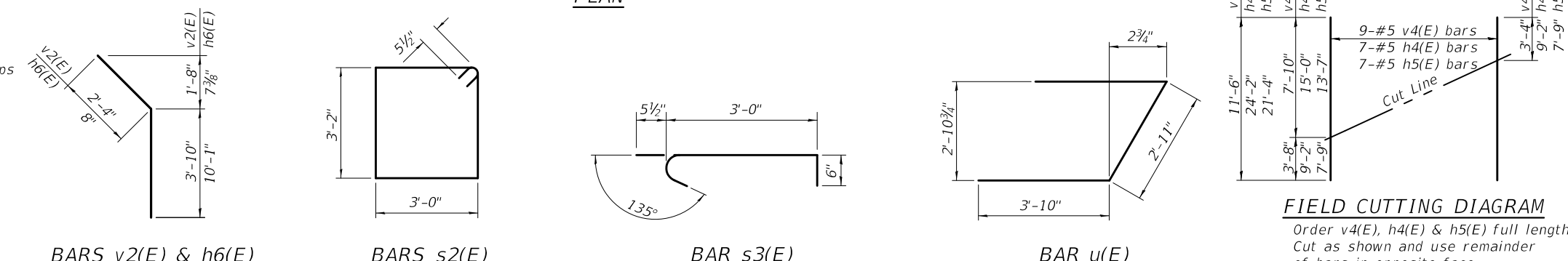
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	(41-1)BR-1	JEFFERSON	92	63
				CONTRACT NO. 78455
ILLINOIS FED. AID PROJECT				



**Notes:**  
 Pour steps monolithically with cap.  
 For details of piles see sheet 24 of 28.  
 Space reinforcement in cap to miss anchor bolts.



**PILE DATA**  
 Type: HP14x89  
 Nominal Required Bearing: 705 kips  
 Factored Resistance Available: 388 kips  
 Est. Length: 45'  
 No. Production Piles: 7  
 No. Test Piles: 1



**BILL OF MATERIAL**

Bar	No.	Size	Length	Shape
h(E)	14	#9	16'-5"	—
h1(E)	14	#6	14'-4"	—
h2(E)	2	#7	15'-0"	—
h3(E)	2	#5	13'-7"	—
h4(E)	7	#7	24'-2"	—
h5(E)	7	#5	21'-4"	—
h6(E)	4	#5	10'-9"	—
p(E)	10	#7	18'-10"	—
p1(E)	10	#7	15'-10"	—
s2(E)	31	#5	13'-3"	□
s3(E)	16	#5	4'-0"	└
sp(E)	8	#4	2'-0"	≡≡≡
u(E)	8	#6	10'-7"	└
v1(E)	36	#8	5'-11"	—
v2(E)	36	#8	6'-2"	—
v3(E)	8	#5	8'-4"	—
v4(E)	18	#5	11'-6"	—
Structure Excavation		Cu. Yd.	80	
Concrete Structures		Cu. Yd.	20.8	
Reinforcement Bars, Epoxy Coated		Pound	4870	
Furnishing Steel Piles HP14x89		Foot	315	
Bar Splicers		Each	10	
Test Pile, Steel HP 14x89		Each	1	
Driving Piles		Foot	315	

\* Length is height of spiral.



USER NAME = kja	DESIGNED - KJA	06/18	REVISED -
ESCA PROJECT NO. 1295.02	CHECKED - RDP	06/18	REVISED -
PLOT SCALE = 0.2' = 1"	DRAWN - KAH	06/18	REVISED -
PLOT DATE = 10/2/2018	CHECKED - KJA	10/18	REVISED -

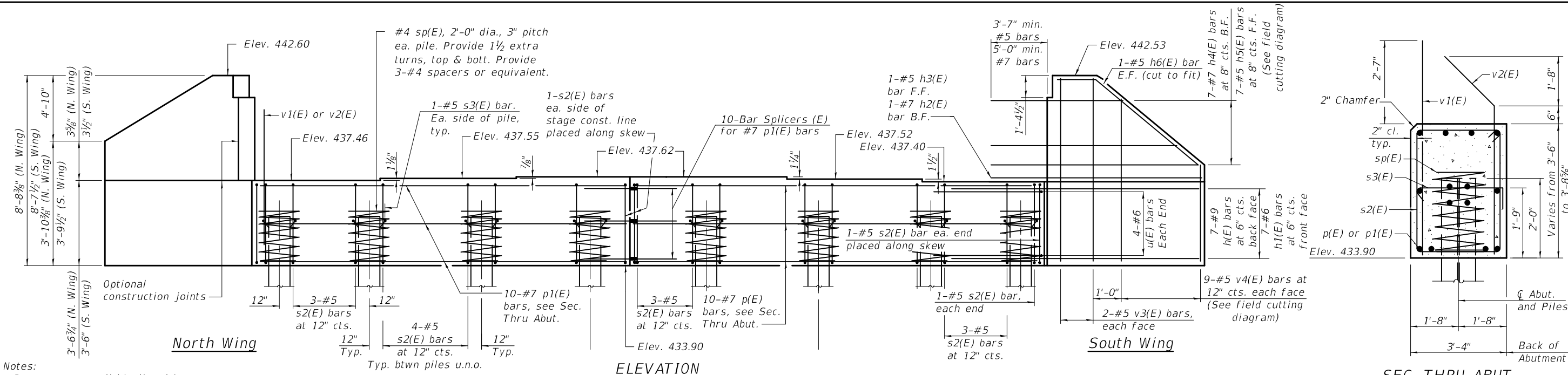
STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

WEST ABUTMENT  
 STRUCTURE NO. 041-0113

SHEET NO. 21 OF 28 SHEETS

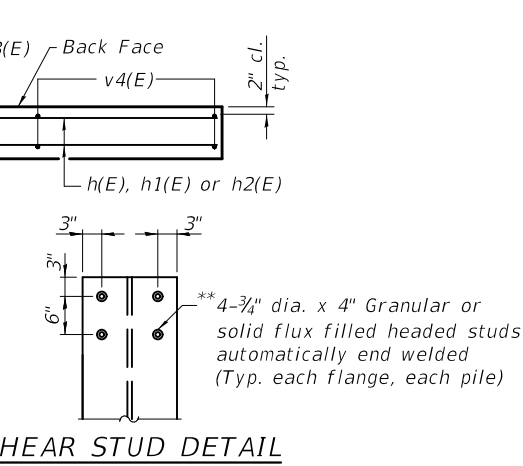
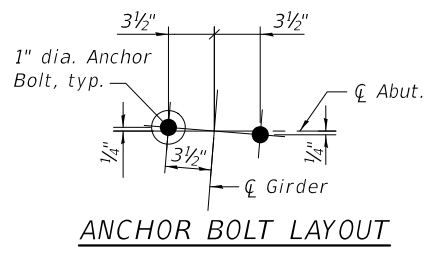
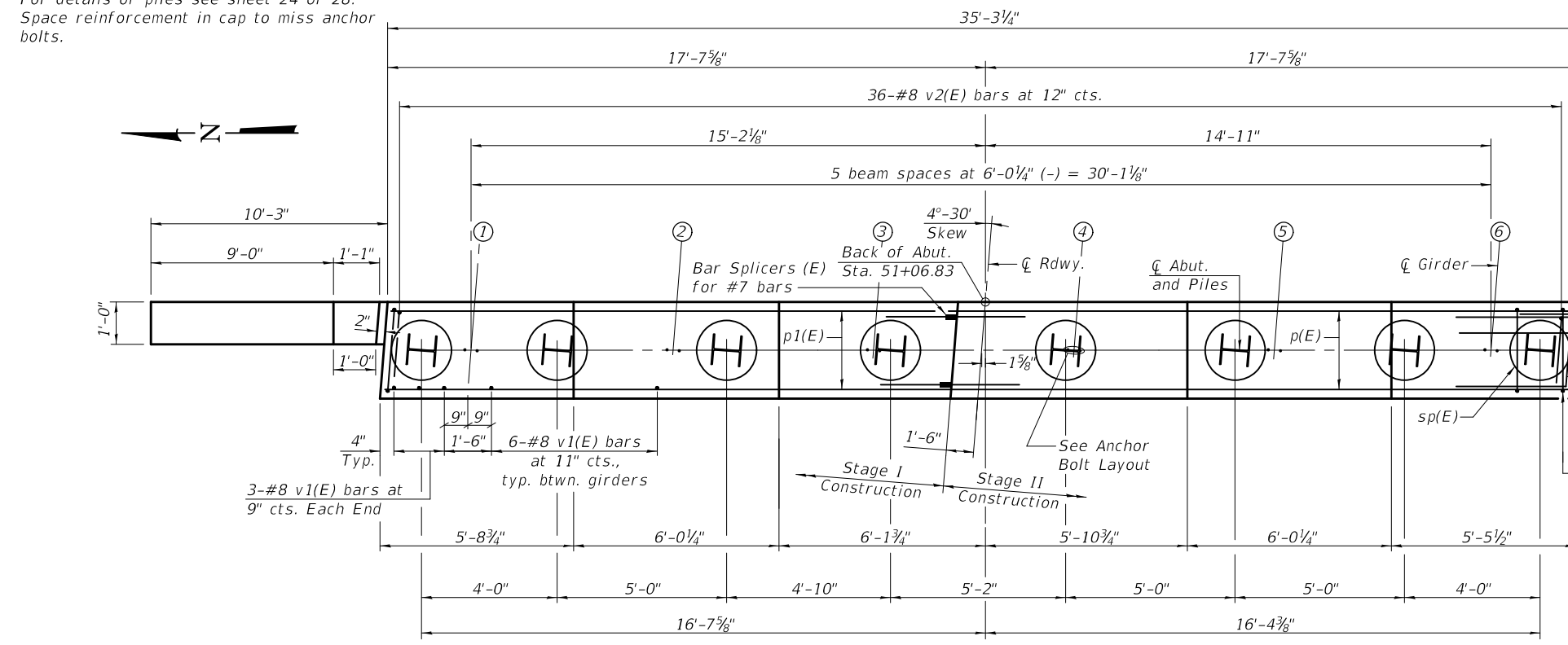
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	(41-1)BR-1	JEFFERSON	92	64
				CONTRACT NO. 78455
ILLINOIS FED. AID PROJECT				



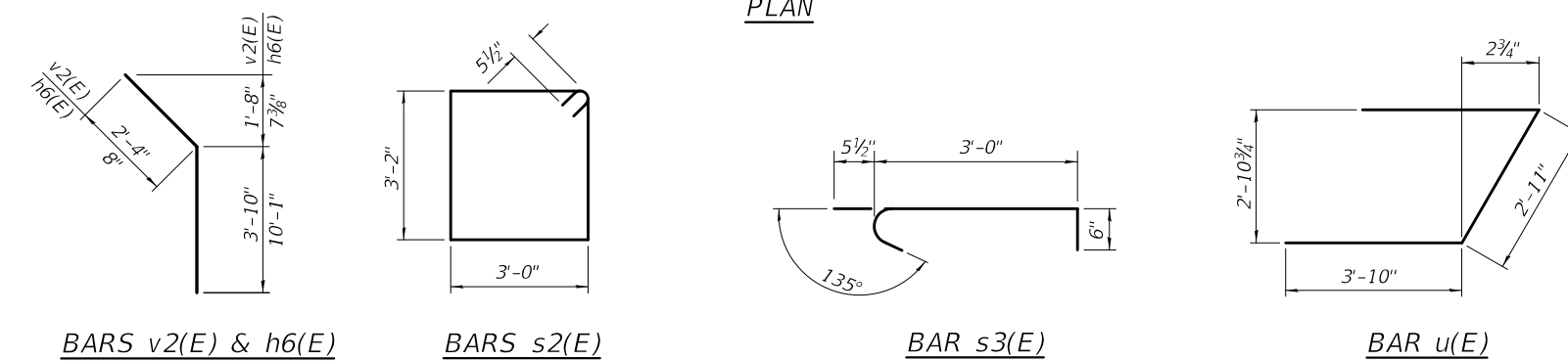


**Notes:**  
 Pour steps monolithically with cap.  
 For details of piles see sheet 24 of 28.  
 Space reinforcement in cap to miss anchor bolts.

**SEC. THRU ABUT.**  
 Dimensions at right angles to abutment.



**PILE DATA**  
 Type: HP14x89  
 Nominal Required Bearing: 705 kips  
 Factored Resistance Available: 388 kips  
 Est. Length: 46'  
 No. Production Piles: 8  
 No. Test Piles: 0



**BILL OF MATERIAL**

Bar	No.	Size	Length	Shape
h(E)	14	#9	16'-5"	—
h1(E)	14	#6	14'-4"	—
h2(E)	2	#7	15'-0"	—
h3(E)	2	#5	13'-7"	—
h4(E)	7	#7	24'-2"	—
h5(E)	7	#5	21'-4"	—
h6(E)	4	#5	10'-9"	—
p(E)	10	#7	18'-10"	—
p1(E)	10	#7	15'-10"	—
s2(E)	31	#5	13'-3"	U
s3(E)	16	#5	4'-0"	hook
sp(E)	8	#4	2'-0"	W
u(E)	8	#6	10'-7"	hook
v1(E)	36	#8	5'-11"	—
v2(E)	36	#8	6'-2"	—
v3(E)	8	#5	8'-4"	—
v4(E)	18	#5	11'-6"	—
Structure Excavation	Cu. Yd.		80	
Concrete Structures	Cu. Yd.		20.7	
Reinforcement Bars, Epoxy Coated	Pound		4870	
Furnishing Steel Piles HP14x89	Foot		368	
Bar Splicers	Each		10	
Driving Piles	Foot		368	

\* Length is height of spiral.



USER NAME = kja	DESIGNED - KJA 06/18	REVISED -
ESCA PROJECT NO. 1295.02	CHECKED - RDP 06/18	REVISED -
PLOT SCALE = 0.166666' / 1"	DRAWN - KAH 06/18	REVISED -
PLOT DATE = 10/2/2018 2:04:26 PM	CHECKED - KJA 10/18	REVISED -

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

**EAST ABUTMENT**  
**STRUCTURE NO. 041-0113**

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	(41-1)BR-1	JEFFERSON	92	65
CONTRACT NO. 78455				

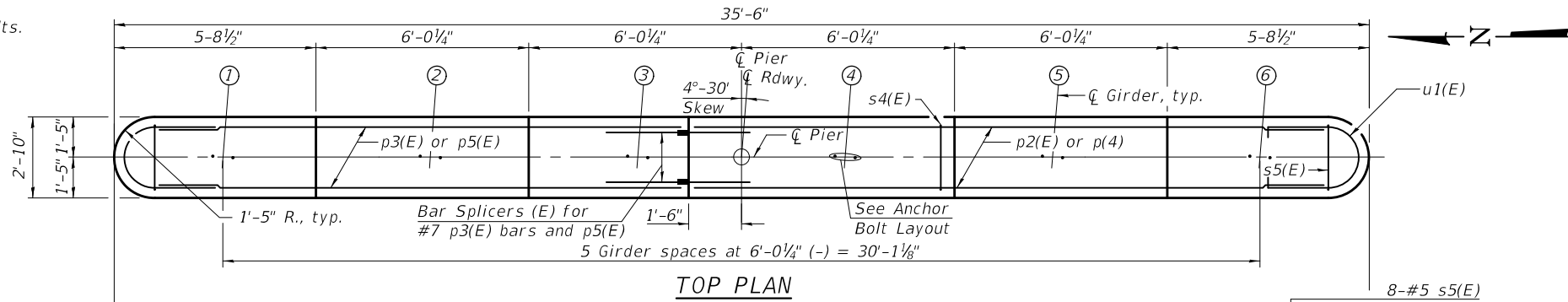
SHEET NO. 22 OF 28 SHEETS

ILLINOIS FED. AID PROJECT

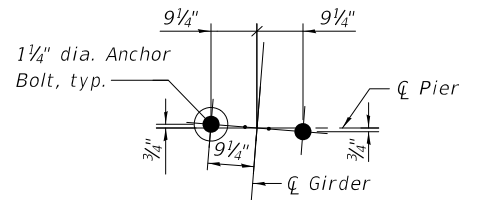
Notes:  
 Space reinforcement in cap to miss anchor bolts.  
 Pour steps monolithically with cap.  
 For details of piles, see sheet 24 of 28.

**PILE DATA**

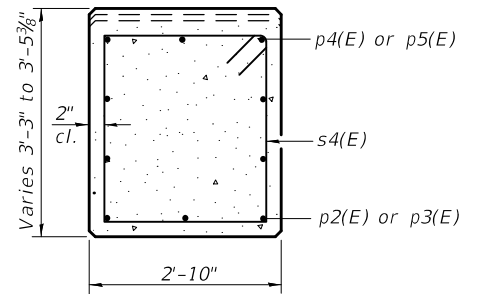
Type: HP14x89  
 Nominal Required Bearing: 705k  
 Factored Resistance Available: 388k  
 Est. Length: 30'  
 No. Production Piles: 14  
 No. Test Piles: 0



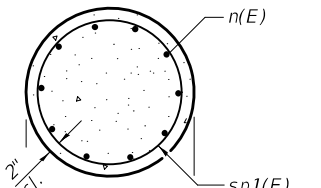
**TOP PLAN**



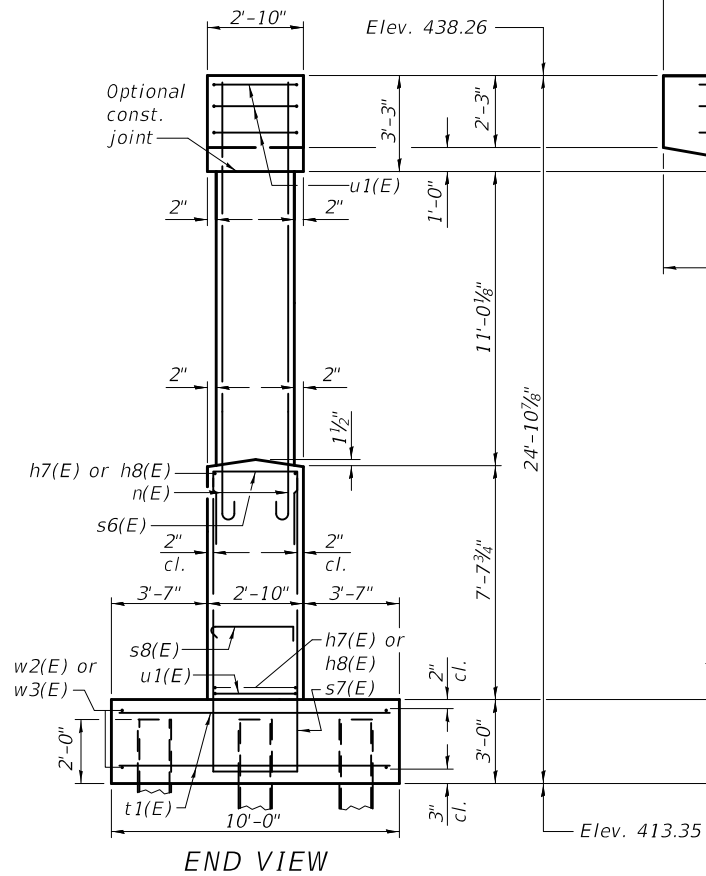
**ANCHOR BOLT LAYOUT**



**SEC. A-A**



**SEC. B-B**

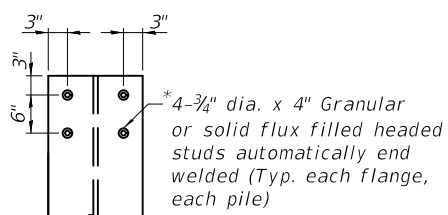


**END VIEW**

**A & B DIMENSIONS**

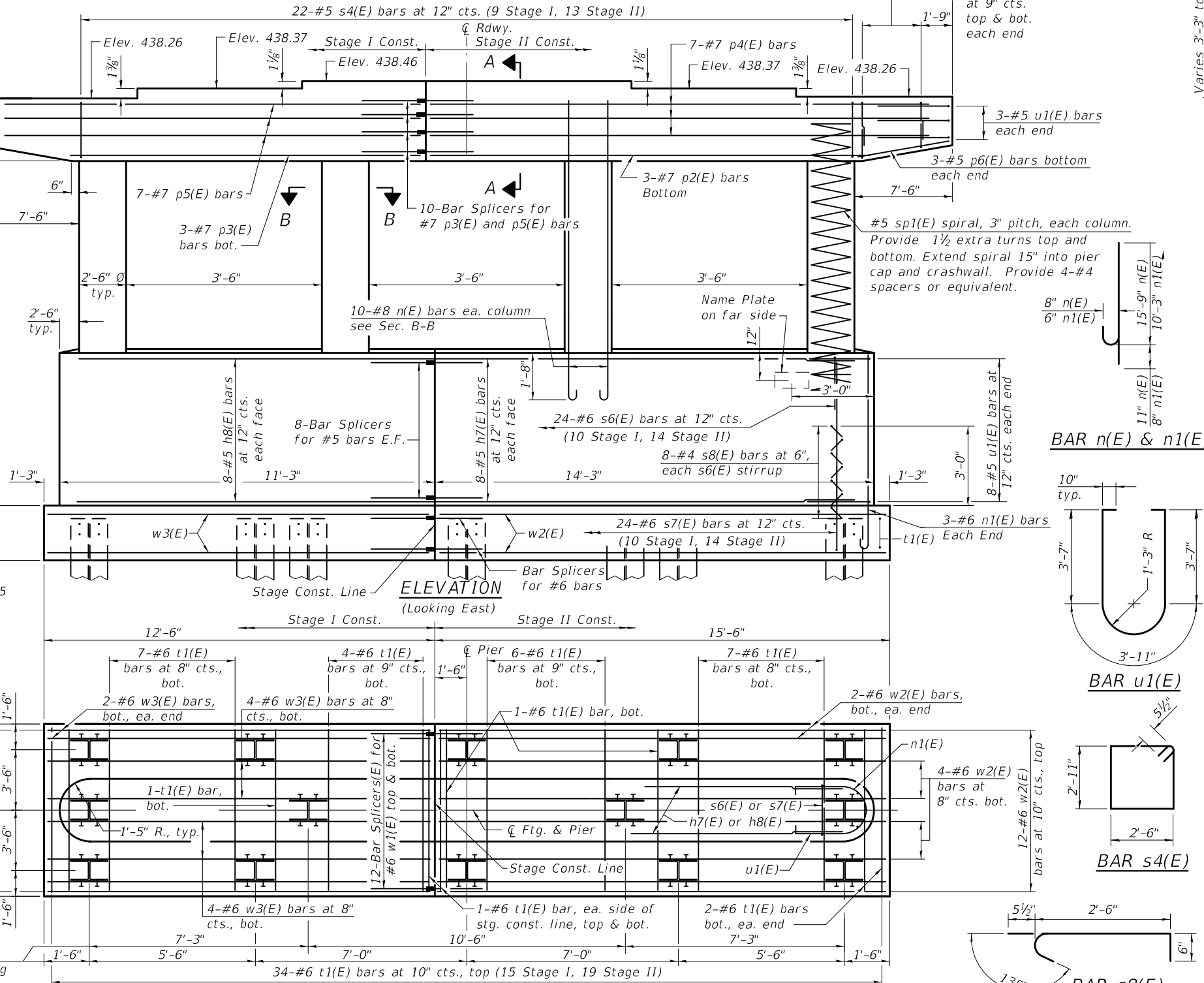
Bar	A	B
s5(E)	2'-6"	1'-11"
s6(E)	2'-5"	3'-0"
s7(E)	2'-5"	10'-2"

**BARS s5(E), s6(E) & s7(E)**



**SHEAR STUD DETAIL**

\*Cost included with Furnishing Piles.



**ELEVATION**  
(Looking East)

**FOOTING PLAN**

**BILL OF MATERIAL**

Bar	No.	Size	Length	Shape
h7(E)	16	#5	12'-8"	—
h8(E)	16	#5	9'-8"	—
n(E)	40	#8	16'-8"	U
n1(E)	6	#6	10'-11"	U
p2(E)	3	#7	11'-11"	—
p3(E)	3	#7	8'-11"	—
p4(E)	7	#7	17'-8"	—
p5(E)	7	#7	14'-8"	—
p6(E)	6	#5	7'-0"	—
s4(E)	22	#5	11'-9"	□
s5(E)	32	#5	6'-4"	U
s6(E)	24	#6	8'-5"	U
s7(E)	24	#6	22'-9"	U
s8(E)	192	#4	3'-6"	U
sp1(E)	4	#5	13'-6"	AAA
t1(E)	69	#6	9'-8"	—
u1(E)	22	#5	12'-9"	U
w2(E)	24	#6	15'-2"	—
w3(E)	24	#6	12'-2"	—
Structure Excavation			Cu. Yd.	80
Concrete Structures			Cu. Yd.	70.7
Reinforcement Bars, Epoxy Coated			Pound	8880
Furnishing Steel Piles, HP 14x89			Foot	420
Driving Piles			Foot	420
Bar Splicers			Each	50

\*\* Length is height of spiral.

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

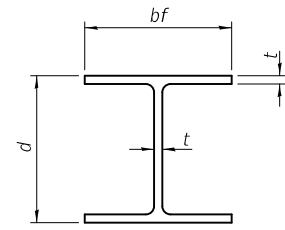
PIER  
 STRUCTURE NO. 041-0113

SHEET NO. 23 OF 28 SHEETS

F.A.I. R.T.E.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	(41-1)BR-1	JEFFERSON	92	66

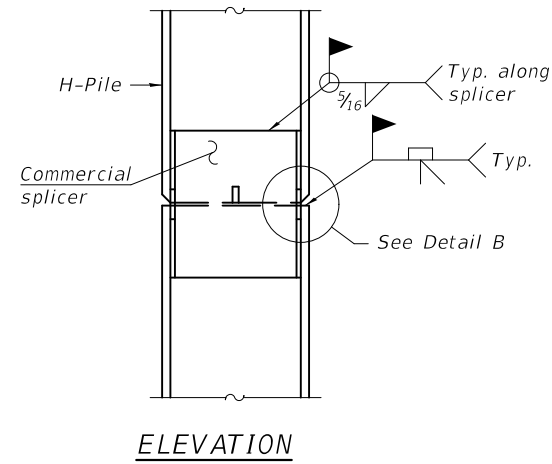
CONTRACT NO. 78455

ILLINOIS FED. AID PROJECT

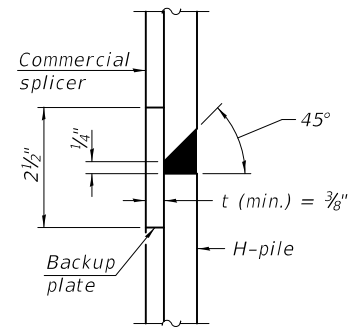


**STEEL PILE TABLE**

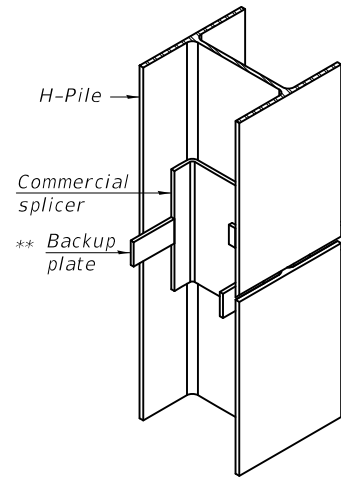
Designation	Depth d	Flange width bf	Web and Flange thickness t	Encasement diameter A
HP 14x117	14 1/4"	14 7/8"	1 3/16"	30"
x102	14"	14 3/4"	1 1/16"	30"
x89	13 7/8"	14 3/4"	5/8"	30"
x73	13 3/8"	14 3/8"	1/2"	30"
HP 12x84	12 1/4"	12 1/4"	1 1/16"	24"
x74	12 1/8"	12 1/4"	5/8"	24"
x63	12"	12 1/8"	1/2"	24"
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"



**ELEVATION**

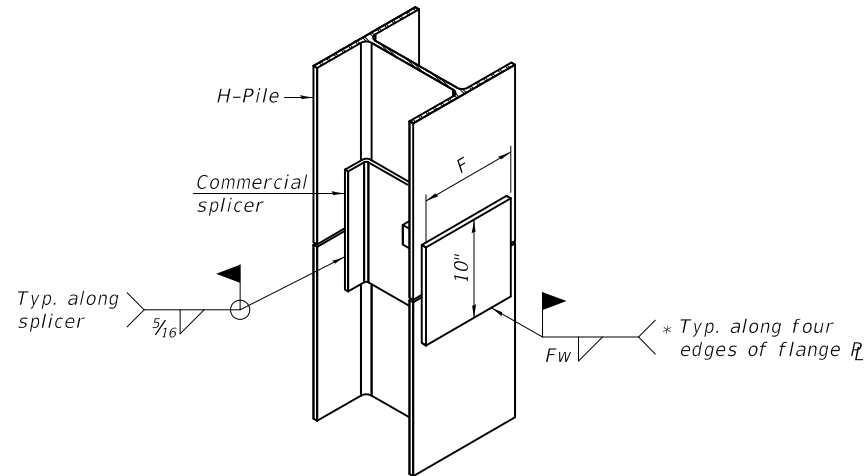


**DETAIL "B"**



**ISOMETRIC VIEW**

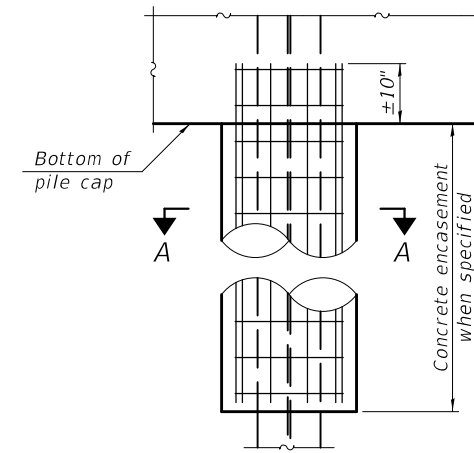
**WELDED COMMERCIAL SPLICE**



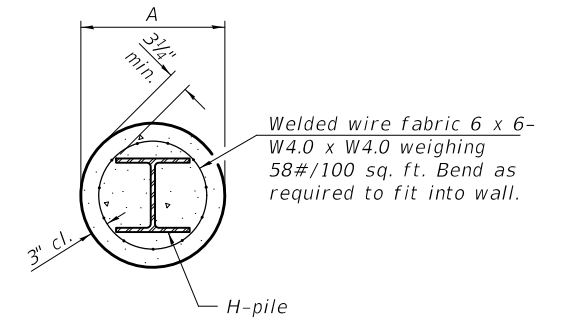
**ISOMETRIC VIEW**

**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.
- \*\*\* Weld size per pile shoe manufacturer (5/16" min.).

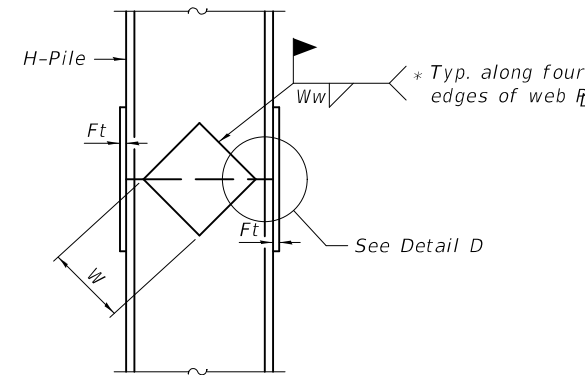


**ELEVATION**

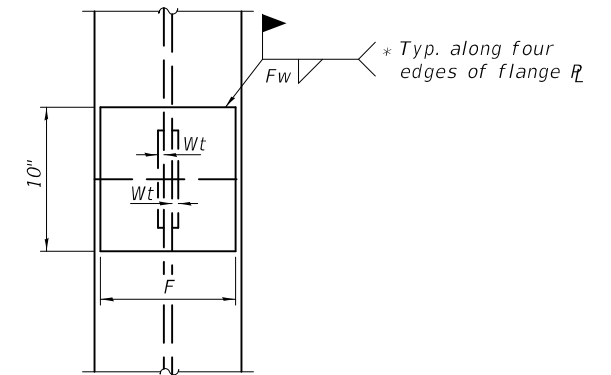


**SECTION A-A**

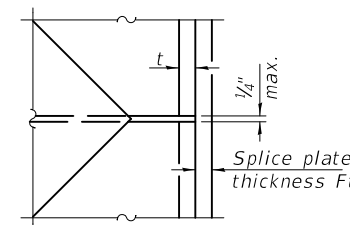
**INDIVIDUAL PILE CONCRETE ENCASUREMENT**  
 (Forms for encasement may be omitted when soil conditions permit).



**ELEVATION**



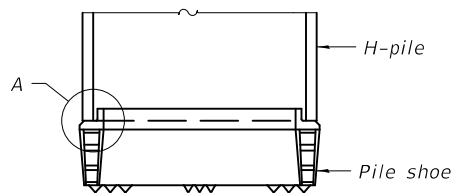
**END VIEW**



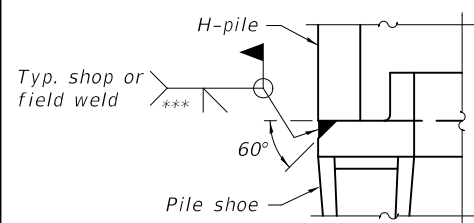
**DETAIL D**

**WELDED PLATE FIELD SPLICE**

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"



**ELEVATION**



**DETAIL A**

**SHOE ATTACHMENT**

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

F-HP

8-11-2017

PRINT DRIVER = L:\05-2017\08-11-17\F-HP.dwg  
 PLOT DATE = 10/2/2018 11:19:47 PM  
 PLOT SCALE = 0:2 '1" / 1"



USER NAME = kja	DESIGNED - KJA 06/18	REVISED -
ESCA PROJECT NO. 1295.02	CHECKED - RDP 06/18	REVISED -
PLOT SCALE = 0:2 '1" / 1"	DRAWN - KAH 06/18	REVISED -
PLOT DATE = 10/2/2018	CHECKED - KJA 06/18	REVISED -

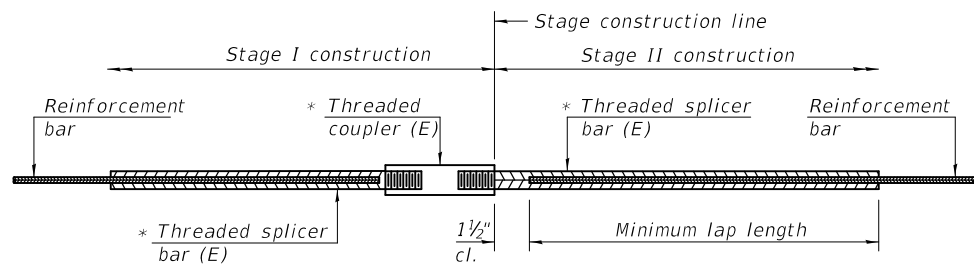
DESIGNED - KJA 06/18	REVISED -
CHECKED - RDP 06/18	REVISED -
DRAWN - KAH 06/18	REVISED -
CHECKED - KJA 06/18	REVISED -

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**HP PILE DETAILS  
 STRUCTURE NO. 041-0113**

SHEET NO. 24 OF 28 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	(41-1)BR-1	JEFFERSON	92	67
CONTRACT NO. 78455				
ILLINOIS FED. AID PROJECT				

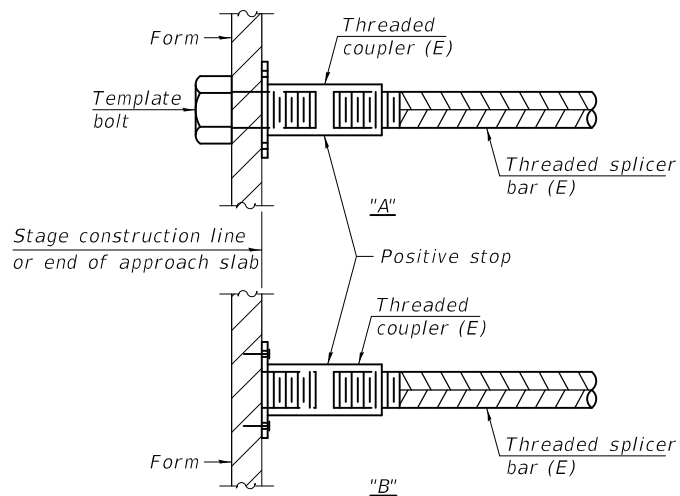


**STANDARD BAR SPLICER ASSEMBLY**

Threaded splicer bar length = min. lap length + 1 1/2" + thread length

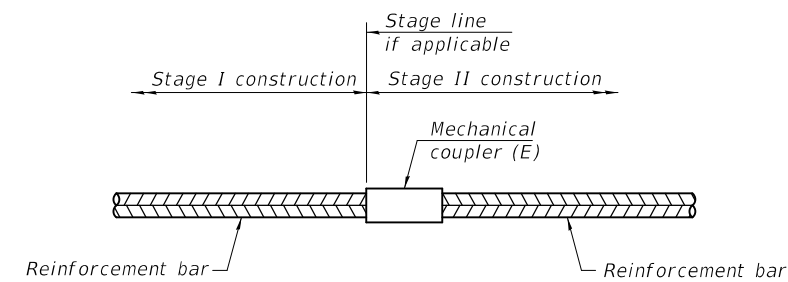
\* Epoxy not required on Bar Splicer Assembly components used in conjunction with black bars.

Location	Bar size	No. assemblies required	Minimum lap length
Top of Slab	#5	365	3'-0"
Bottom of Slab	#5	254	3'-6"
Diaphragms	#6	10	4'-0"
Top of Approach	#5	92	3'-4"
Bottom of Approach	#8	120	4'-9"
Top of Approach Ftg.	#5	40	3'-2"
Bottom of Approach Ftg.	#5	40	3'-2"
West Abutment	#7	10	5'-0"
East Abutment	#7	10	5'-0"
Pier Cap	#7	10	5'-0"
Crash Wall	#5	16	3'-7"
Top of Pier Footing	#6	12	4'-4"
Bottom of Pier Footing	#6	12	3'-10"



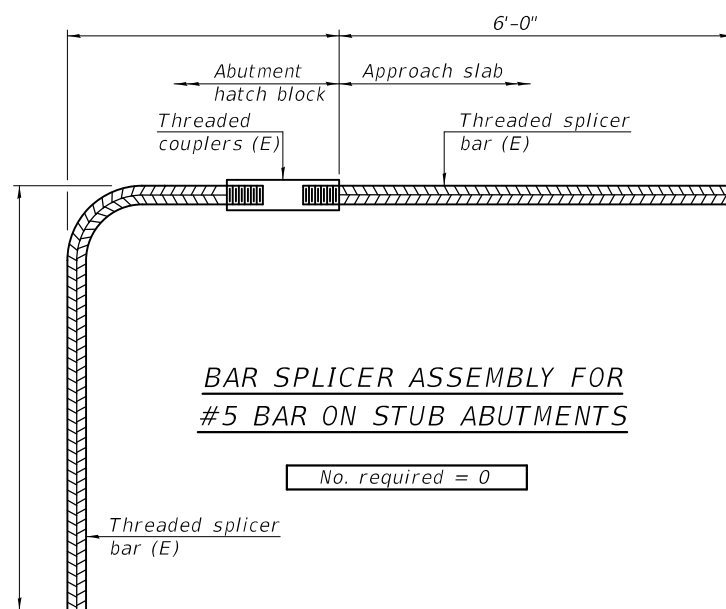
**INSTALLATION AND SETTING METHODS**

"A" : Set bar splicer assembly by means of a template bolt.  
 "B" : Set bar splicer assembly by nailing to wood forms or cementing to steel forms.  
 (E) : Indicates epoxy coating.



**STANDARD MECHANICAL SPLICER**

Location	Bar size	No. assemblies required



**BAR SPLICER ASSEMBLY FOR #5 BAR ON STUB ABUTMENTS**

No. required = 0

**NOTES**

Splicer bars shall be deformed with threaded ends and have a minimum 60 ksi yield strength.  
 All reinforcement shall be lapped and tied to the splicer bars.  
 Bar splicer assemblies shall be epoxy coated according to the requirements for reinforcement bars. See Section 508 of the Standard Specifications.  
 See approved list of bar splicer assemblies and mechanical splicers for alternatives.

PRINT DRIVER = L:\ES\Bates\p9  
 PLOT DATE = 11/15/2018 6:33:41 AM  
 PLOT SCALE = 0.25" = 1'-0"  
 PLOT NAME = 20180728ES-28-StrDetail.dwg

BSD-1

2-17-2017



USER NAME = rtm	DESIGNED - KJA 06/18	REVISED -
ESCA PROJECT NO. 1295.02	CHECKED - RDP 06/18	REVISED -
PLOT SCALE = 0.25" = 1'-0"	DRAWN - KAH 06/18	REVISED -
PLOT DATE = 11/15/2018 6:33:41 AM	CHECKED - KJA/RTM 11/18	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**BAR SPLICER ASSEMBLY AND MECHANICAL SPLICER DETAILS  
STRUCTURE NO. 041-0113**

SHEET NO. 25 OF 28 SHEETS

F.A.I. RTE. 57	SECTION (41-1)BR-1	COUNTY JEFFERSON	TOTAL SHEETS 92	SHEET NO. 68
CONTRACT NO. 78455			ILLINOIS FED. AID PROJECT	



ILLINOIS DEPARTMENT OF TRANSPORTATION  
District Nine Materials

Bridge Foundation  
Boring Log  
Sheet 1 of 1

FAS 824 (North Ave) Over FAI 57

Route: FAS 824

Structure Number: 041-0055

Date: 3/29/2017

Section 41-1HB-1

Bored By: R Moberly

County: Jefferson

Location: Ina Interchange

Checked By: R Moberly

Boring No 2-S (2017)

Station 117+00

Offset 25' Rt CL

Ground Surface 418.2 Ft

D E P T H	B L O W S	Qu tsf	W%	Surf Wat Elev:	D E P T H	B L O W S	Qu tsf	W%
				Ground Water Elevation when Drilling 403.7 At Completion _____ At: Hrs: _____				
				Hard, dry, black, Coal			100/10"	
				391.2				
	2			Hard, dry, grey, Sandy Clay Shale				
	3	2.5B	17					
	4							
413.7								
	5.0	1			30.0		100/6"	
	3	1.3B	28					
	3							
	1							
	3	1.4B	20					
	3							
408.7								
	10.0	1			383.2	35.0	100/3"	
	3	2.1B	22					
	3							
406.2								
	1			Bottom of hole = 34.8 feet				
	3	1.4B	22	Free water observed at 14.5 feet				
	3			Elevation referenced to BM at SE wingwall; Elevation = 442.9 feet				
403.7								
	15.0	1		Borehole advanced with hollow stem auger (8" O.D, 3.25" I.D.)	40.0			
	1	0.4B	18					
	2			To convert "N" values to "N60" multiply by 1.25				
401.2								
	2							
	6	2.8S	23					
	10							
398.7								
	20.0	2			45.0			
	8	2.4S	20					
	13							
	2							
	9	2.4S	19					
	14							
393.2	25.0	11			50.0			

N-Std Pentr Test: 2" OD Sampler, 140# Hammer, 30" Fall (Type Fail. B-Bulge S-Shear E-Estimated P-Penetrometer)

PRINT DRIVER = L:\ESCA\Borings  
SCALE: NONE = 1:200  
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ESCA PROJECT NO. 1295.02  
PLOT SCALE = 0:2 '1" = 1"  
PLOT DATE = 10/2/2018 1:20:21 PM

DESIGNED - KJA 06/18  
CHECKED - RDP 06/18  
DRAWN - KAH 06/18  
CHECKED - KJA 06/18

REVISED -  
REVISED -  
REVISED -  
REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

BORING LOGS  
STRUCTURE NO. 041-0113

SHEET NO. 27 OF 28 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	(41-1)BR-1	JEFFERSON	92	70
				CONTRACT NO. 78455
ILLINOIS FED. AID PROJECT				

ILLINOIS DEPARTMENT OF TRANSPORTATION  
District Nine Materials

Bridge Foundation  
Boring Log

FAS 824 (North Ave) Over FAI 57

Sheet 1 of 2

Route: FAS 824

Structure Number: 041-0055

Date: 3/28/2017

Section 41-1HB-1

Bored By: R Moberly

County: Jefferson

Location: Ina Interchange

Checked By: R Moberly

Boring No 3-S (2017)

Station 51+37

Offset 9' Rt CL

Ground Surface 440.4 Ft

DEPT H	BLOWS	Qu tsf	W%	Surf Wat Elev: Ground Water Elevation when Drilling At Completion At: Hrs:	DEPT H	BLOWS	Qu tsf	W%
						4	1.5B	25
						5		
						1		
						3	1.1B	21
						3		
						1		
						30.0	1	
						3	1.9B	22
						4		
						1		
						3	1.7B	19
						4		
						10.0	1	
						3	2.5B	24
						5		
						1		
						4	1.6B	20
						5		
						15.0	2	
						4	1.5S	19
						6		
						2		
						4	2.1B	18
						6		
						20.0	2	
						5	2.3B	23
						6		
						2		
						4	2.1B	24
						7		
						25.0	1	

N-Std Penetr Test: 2" OD Sampler, 140# Hammer, 30" Fall (Type Fail. B-Bulge S-Shear E-Estimated P-Penetrometer)

Sheet 2 of 2

Date: 3/28/2017

Route: FAS 824

Section: 41-1HB-1

County: Jefferson

Boring No: 3-S (2017)

Station: 51+37

Offset: 9' Rt CL

Ground Surface: 440.4 Ft

DEPT H	BLOWS	Qu tsf	W%	Surf Wat Elev: Ground Water Elevation when Drilling At Completion At: Hrs:	DEPT H	BLOWS	Qu tsf	W%
						29		
						40		
						1		
						3	1.1B	21
						3		
						55.0	100/4"	80.0
						1		
						3	1.7B	19
						4		
						10.0	1	
						3	2.5B	24
						5		
						1		
						4	1.6B	20
						5		
						15.0	2	
						4	1.5S	19
						6		
						2		
						4	2.1B	18
						6		
						20.0	2	
						5	2.3B	23
						6		
						2		
						4	2.1B	24
						7		
						25.0	1	

N-Std Penetr Test: 2" OD Sampler, 140# Hammer, 30" Fall (Type Fail. B-Bulge S-Shear E-Estimated P-Penetrometer)

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PLOT DATE = 10/2/2018 1:20:33 PM	CHECKED - KJA 06/18	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

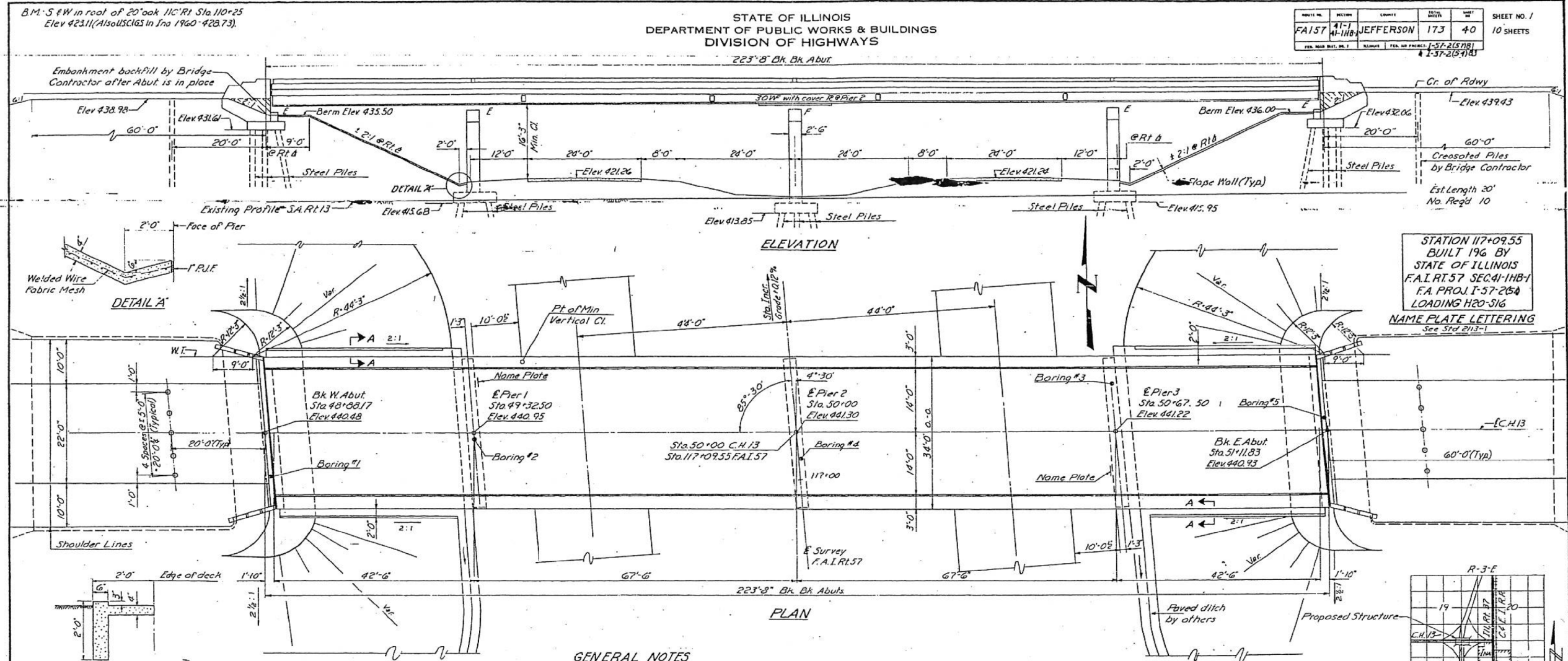
BORING LOGS  
STRUCTURE NO. 041-0113

SHEET NO. 28 OF 28 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	(41-1)BR-1	JEFFERSON	92	71
CONTRACT NO. 78455				
ILLINOIS FED. AID PROJECT				

STATE OF ILLINOIS  
DEPARTMENT OF PUBLIC WORKS & BUILDINGS  
DIVISION OF HIGHWAYS  
223'-8" BR. BR. ABUT.

PROJECT NO.	SECTION	COUNTY	SHEET NO.	SHEET NO. / TOTAL SHEETS
FA157	41-1	JEFFERSON	173	40 / 10 SHEETS
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT	I-57-2(5)83	



STATION 117+09.55  
BUILT 196 BY  
STATE OF ILLINOIS  
F.A.I.R.T.57 SEC.41-1HB-1  
F.A. PROJ. I-57-2(5)83  
LOADING H20-S16  
NAME PLATE LETTERING  
See Sta. 213-1

GENERAL NOTES

Coarse aggregate to be used in parapet handrails and End Posts must be absolutely free of chert, flint, limonite, lignite and soft sandstone.  
The Concrete floor slab shall be finished in accordance with Article 5119 of the Standard Specifications, and the Slope wall shall be reinforced with Welded Wire Fabric 6" G mesh, Weighting 38" per 100 sq. ft.  
All reinforcement bars shall be lapped 20 diameters unless otherwise shown.  
Rivets 3/4" Open holes 1 1/2" unless otherwise noted.  
Anchor bolts shall be set before riveting diaphragms over supports.  
The exposed surfaces of the expansion guard shall be given two shop coats of red lead paint, the contact surfaces shall be given one coat of red lead point. Anchor studs shall not be painted.  
Expansion guards are included in the quantity of Structural Steel. Estimated weight 1560 lbs.  
All Structural Steel shall conform to ASTM A-36 Specification.

Except as otherwise provided all Structural Steel shall receive one shop coat of red paint and two field coats of aluminum paint. See Article 56.1 to 56.5 inclusive of the Standard Specifications.  
The Contractor shall drive two steel test piles (for location see sheet 740 of P10) as directed by the Engineer before ordering the remainder of piles.  
Permanent forms will not be permitted in forming the concrete floor.  
Test piles shall be driven in permanent locations.  
Steel bearing piles shall be driven to refusal.

TOTAL BILL OF MATERIAL

Items	Units	Super	Sub	Total
Borrow Excavation	Cu Yds			28,090
Class A Excavation For Structures	Cu Yds		70	70
Class X Concrete	Cu Yds	239.5	210.3	449.8
Furnish & Erect Structural Steel	Lbs.	183,200		183,200
Aluminum Handrail	Lin. Ft.	443		443
Reinforcement Bars	Lbs.	49,400	17,200	66,600
Crested Piles	Lin. Ft.		200	200
Steel Piles (BBP36)	Lin. Ft.		1300	1300
Test Piles Steel (BBP36)	Eq.		2	2
Name Plates	Eq.		2	2
Slope Wall (4')	Sq. Yds		410	410
Protective Coat	Sq. Yds	970		970
Bridge Seal Sealant	L. S.			L. S.

\* Included in Quantities on Sheet #13  
\*\* Applied at Abutments only.  
⊙ Includes quantity required for Slope Wall.

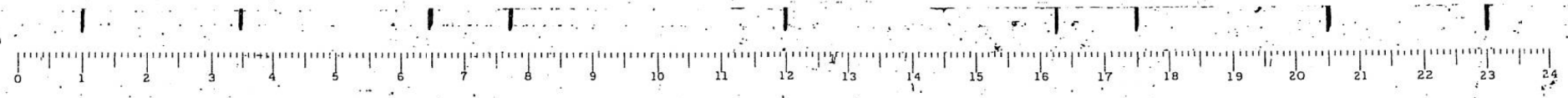
DESIGNED	W. H. Hering
CHECKED	Abraham P. Beck
DRAWN	W. E. Dickerson
CHECKED	Abraham P. Beck

EXAMINED	Dec 31 1962
PASSED	W. E. Dickerson
APPROVED	W. E. Dickerson

DESIGN STRESSES

F<sub>c</sub> = 1400 psi Super & Sub  
F<sub>v</sub> = 75 psi Flgs  
F<sub>s</sub> = 20,000 psi Reinf.  
F<sub>s</sub> = 20,000 psi Struct  
n = 10  
LOADING H20-S16-44

Rev 2-17-64 W.H. Crested Piles Changed from 150 lin. Ft. to 200 Lin. Ft.



USER NAME = kjk	DESIGNED - KJK	REVISED -
ESCA PROJECT NO. 1295.02	DRAWN - KJK	REVISED -
PLOT SCALE = 0.2" = 1' / in.	CHECKED - ELH	REVISED -
PLOT DATE = 10/3/2018	DATE - 03/18	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

EXISTING BRIDGE PLANS  
FOR INFORMATION ONLY

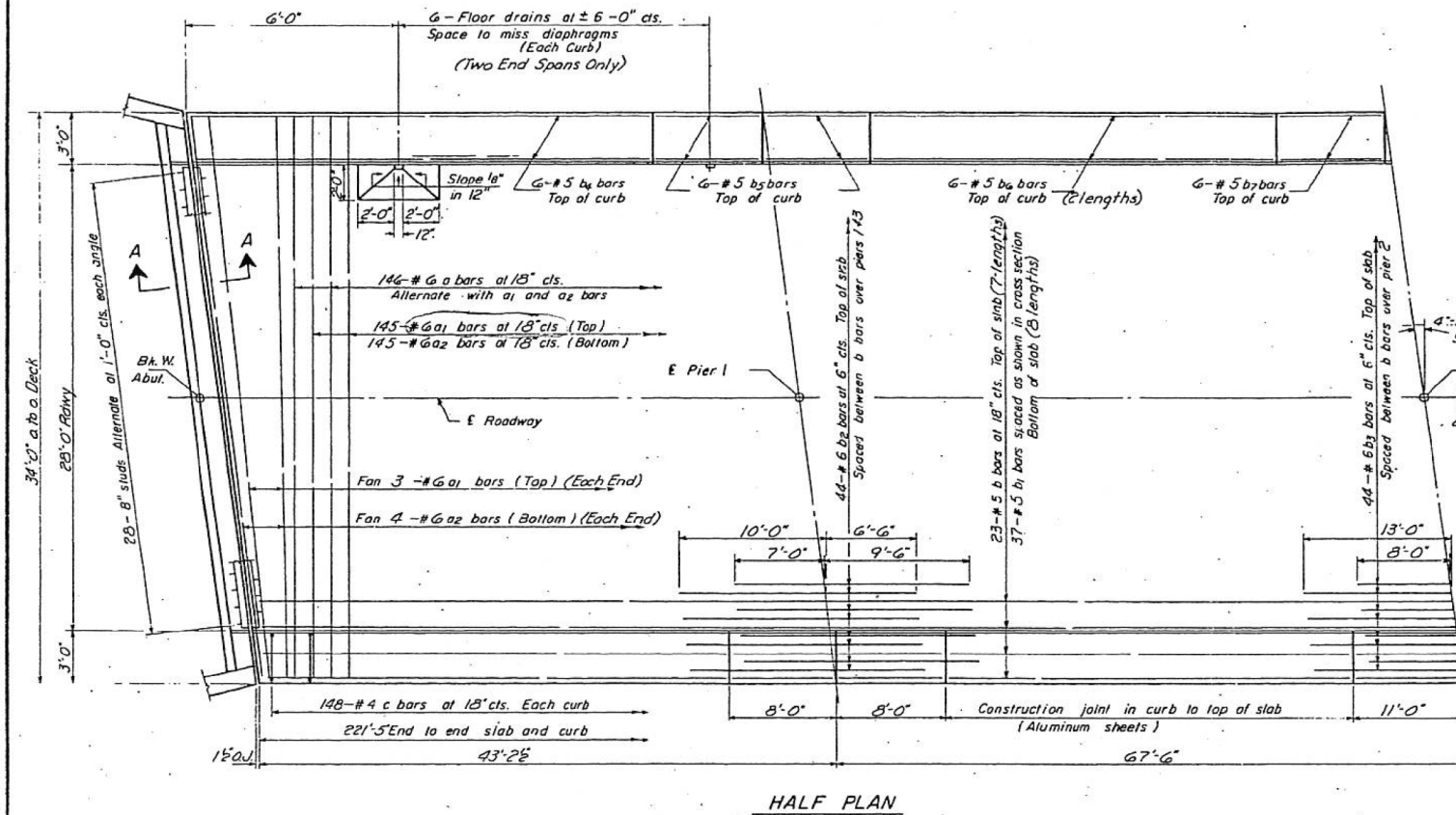
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F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	(41-1)BR-1	JEFFERSON	92	72
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT			CONTRACT NO. 78455	

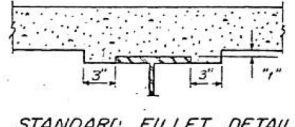


STATE OF ILLINOIS  
DEPARTMENT OF PUBLIC WORKS & BUILDINGS  
DIVISION OF HIGHWAYS

PROJECT NO.	SECTION	SHEET NO.	TOTAL SHEETS
FAI 57	41-1BR-1	173	13
JEFFERSON COUNTY			SHEET NO. 4
			10 SHEETS



HALF PLAN

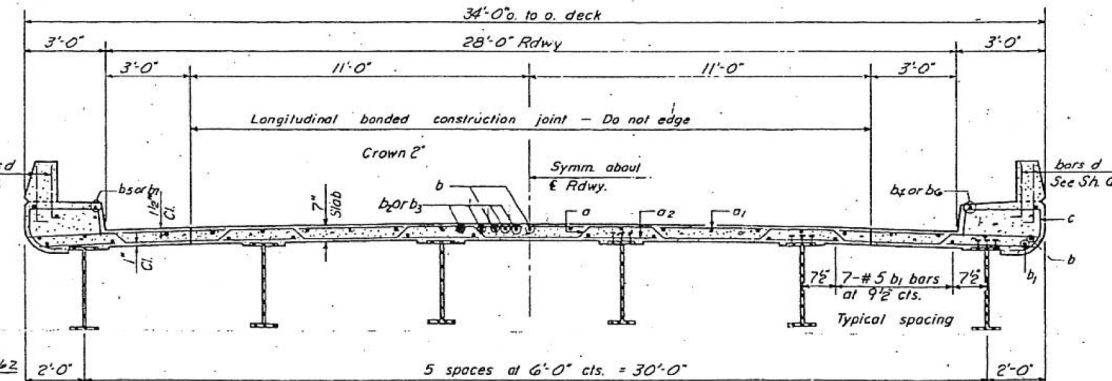


To determine "f": After all structural steel has been erected, elevations of the top flanges of the beams shall be taken at intervals shown on sheet 3. These elevations subtracted from the "Grade Elevations Adjusted for Dead Load Deflections" shown on sheet 3, minus slab thickness, equals the fillet heights "f" above top of beams.

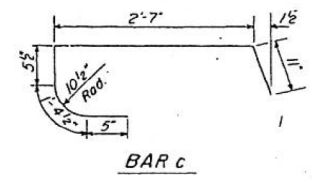
DESIGNED: *slai*  
CHECKED: *Abraham P. Beck*  
DRAWN: *W.E. Dickerson, D.L. Beamer*  
CHECKED: *Abraham P. Beck*

EXAMINED: *H.E. B...*  
PASSED: *[Signature]*  
APPROVED: *V.E. Claff*

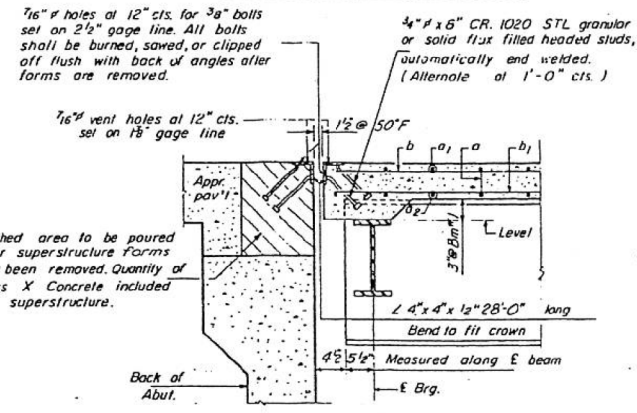
I-6-R (≤ 10°) 7-2-62



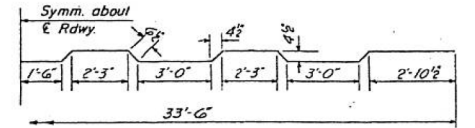
NEAR PIERS  
NEAR MIDSPAN (SPANS 2 & 3)  
CROSS SECTION



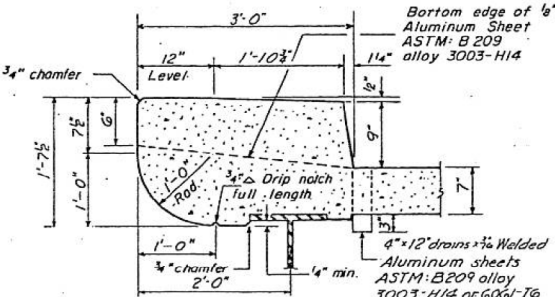
BAR C



SECTION A-A

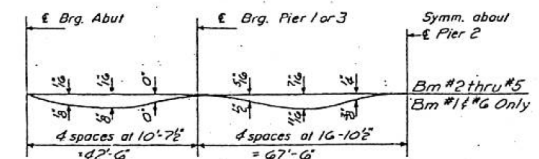


BAR a



CURB DETAIL

Cost of aluminum sheets and drains shall be incidental to Class X Concrete.



DEAD LOAD DEFLECTION DIAGRAM

(Includes weight of concrete only)  
Note: The above deflections are not to be used in the field if the engineer is working from the grade elevations adjusted for dead load deflections as shown on sheet 3.

BILL OF MATERIAL

Bar	No.	Size	Length	Shape
a	146	#6	35'-2"	
a1	151	#6	33'-6"	
a2	153	#6	33'-0"	
b	161	#5	32'-9"	
b1	296	#5	28'-9"	
b2	88	#6	16'-6"	
b3	44	#6	21'-0"	
b4	24	#5	35'-0"	
b5	48	#5	7'-9"	
b6	48	#5	28'-9"	
b7	24	#5	10'-9"	
c	296	#4	5'-9"	

Reinforcement Bars Lbs. 44,750  
Structural Steel Lbs. 183,200  
Class X Concrete Cu Yds. 216.9

\* Weight of bearing assemblies with lead plates and anchor bolts are included as structural steel.  
Est. Weight = 7600 lbs

SUPERSTRUCTURE  
FAI RT 57 SEC. 41-1BR-1  
JEFFERSON COUNTY  
STA. 117+09.55

PRINT DRIVER: LEO E. BARTLEY  
SCALE: NONE  
DATE: 10/3/2018



USER NAME = kjk	DESIGNED - KJK	REVISED -
ESCA PROJECT NO. 1295.02	DRAWN - KJK	REVISED -
PLOT SCALE = 0.2" = 1' / in.	CHECKED - ELH	REVISED -
PLOT DATE = 10/3/2018	DATE - 03/18	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

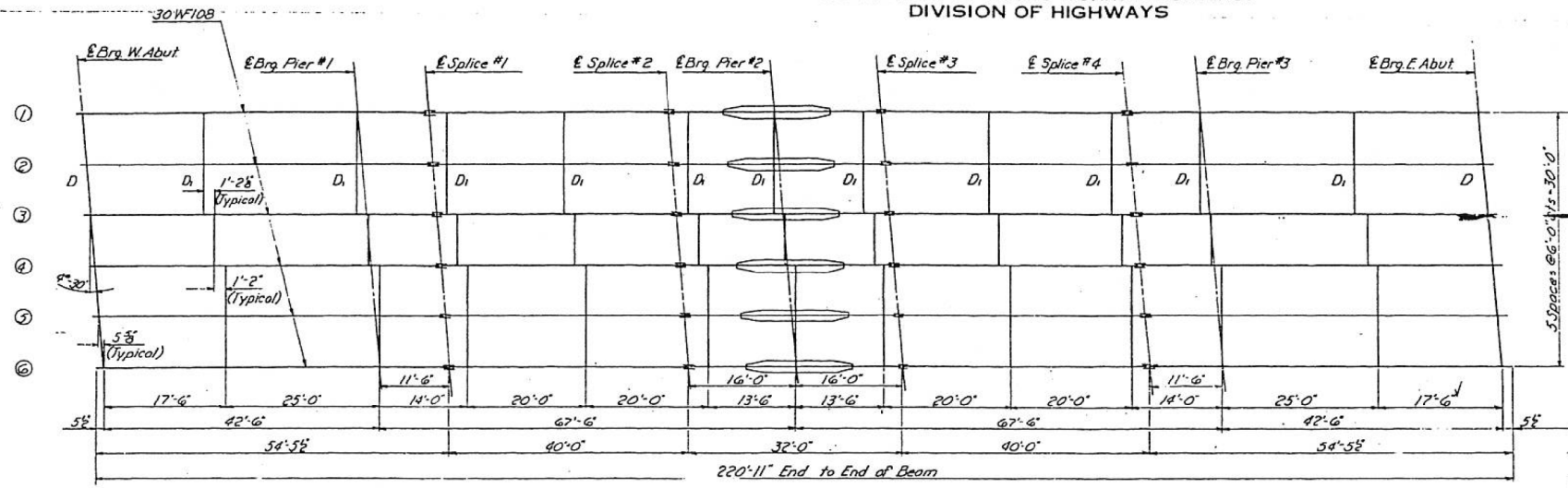
EXISTING BRIDGE PLANS  
FOR INFORMATION ONLY

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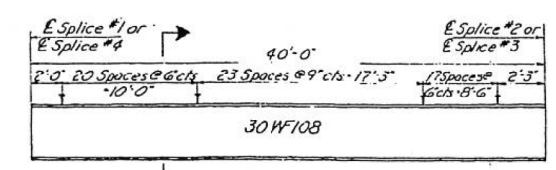
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	(41-1BR-1)	JEFFERSON	92	73
CONTRACT NO. 78455				
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

STATE OF ILLINOIS  
DEPARTMENT OF PUBLIC WORKS & BUILDINGS  
DIVISION OF HIGHWAYS

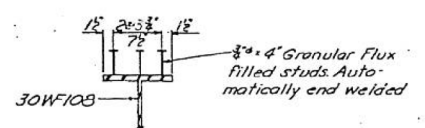
PROJECT NO.	SECTION	COUNTY	SHEET NO.	TOTAL SHEETS
FA157	41-1/1B-1	JEFFERSON	173	44
SHEET NO. 5 10 SHEETS				



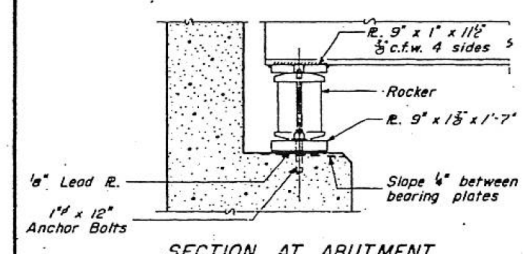
FRAMING PLAN



ELEVATION  
Showing spacing for Shear Connectors

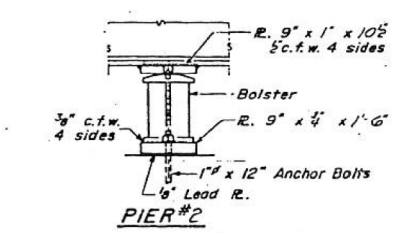


SECTION A-A  
Quantity of studs included in Structural Steel. Est. Wt. 1350 lbs.

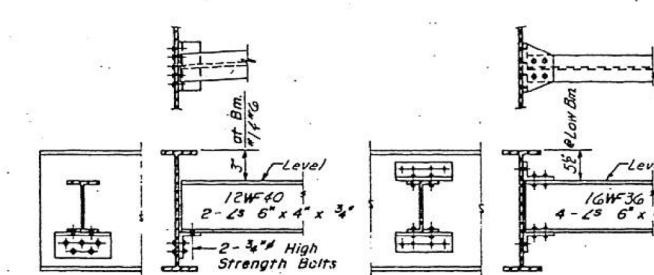


SECTION AT ABUTMENT

PIERS #1 & 3

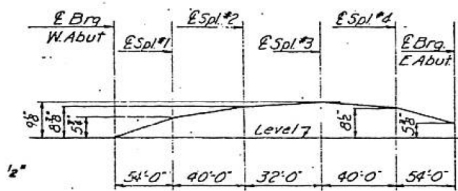


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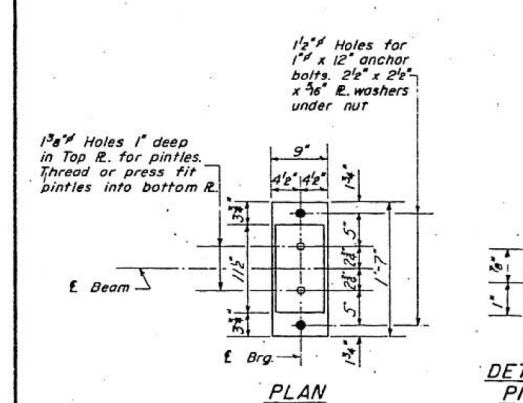


DIAPHRAGM D  
10 Required

DIAPHRAGM D1  
55 Required

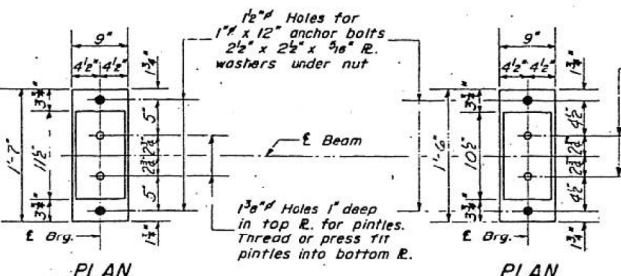


FABRICATION DIAGRAM  
All Beams



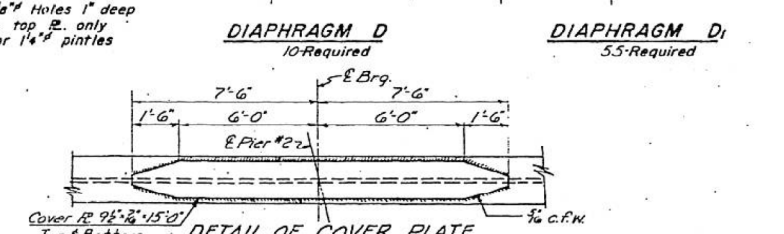
PLAN

DETAIL OF PINTLE



PLAN

PLAN



DETAIL OF COVER PLATE

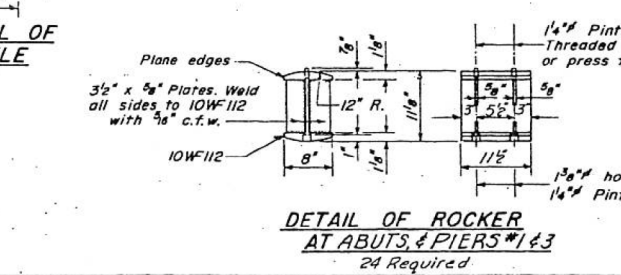
ELEVATION TOP OF WF

	E Brg W Abut	E Brg Pier #1	E Splice #1	E Splice #2	E Brg Pier #2
Bm #1 #6	439.74	440.12	440.22	440.44	440.57
Bm #2 #5	439.86	440.24	440.34	440.56	440.59
Bm #3 #4	439.92	440.30	440.40	440.62	440.65
	E Splice #3	E Splice #4	E Brg Pier #3	E Brg Abut	
Bm #1 #6	440.50	440.45	440.39	440.19	
Bm #2 #5	440.62	440.57	440.51	440.31	
Bm #3 #4	440.68	440.63	440.57	440.37	

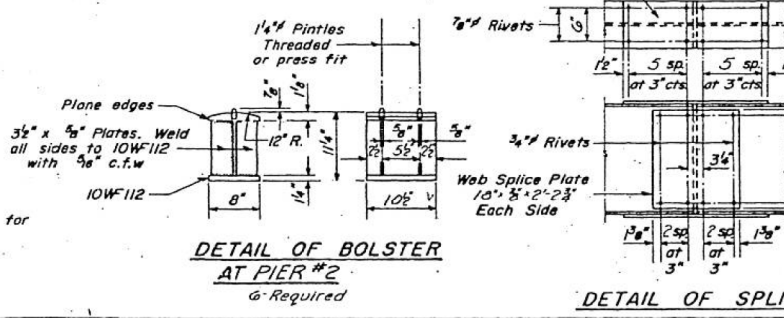
DESIGNED *W. Heagy*  
CHECKED *Abraham El Beck*  
DRAWN *W.A. Sautoman Jr.*  
CHECKED *Abraham El Beck*

EXAMINED *W.C. Baumann*  
PASSED *W.C. Baumann*  
APPROVED *V.E. Bluff*

DEC 31 1962



DETAIL OF ROCKER  
AT ABUTS & PIERS #1 & 3  
24 Required

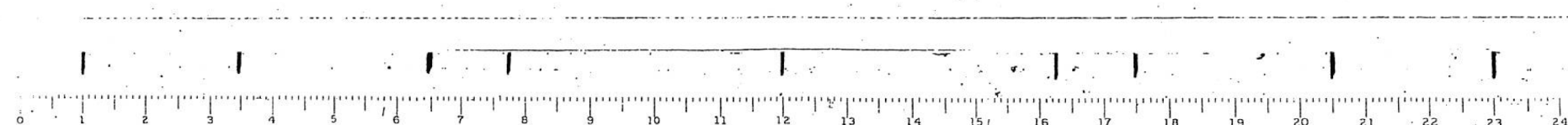


DETAIL OF BOLSTER  
AT PIER #2  
6 Required

DETAIL OF SPLICE

STRUCTURAL STEEL  
F.A.I. RT. 57 SEC. 41-1/1B-1  
JEFFERSON COUNTY  
STA. 117+09.55

I-2 7-2-62



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PLOT DATE = 10/3/2018 7:28:15 AM

DESIGNED - KJK  
DRAWN - KJK  
CHECKED - ELH  
DATE - 03/18

REVISED -  
REVISED -  
REVISED -  
REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

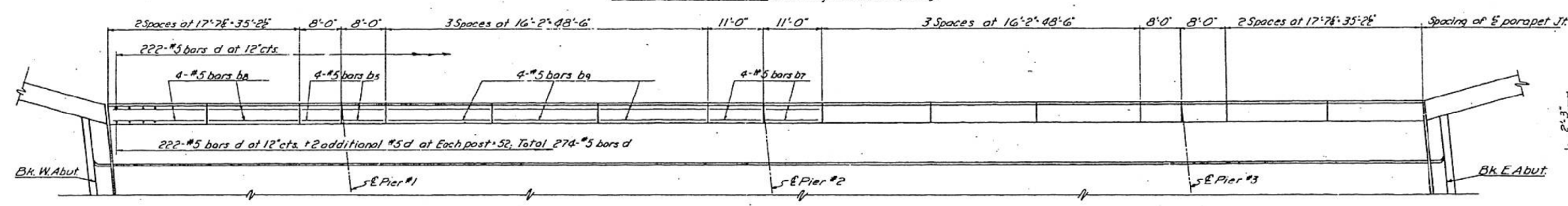
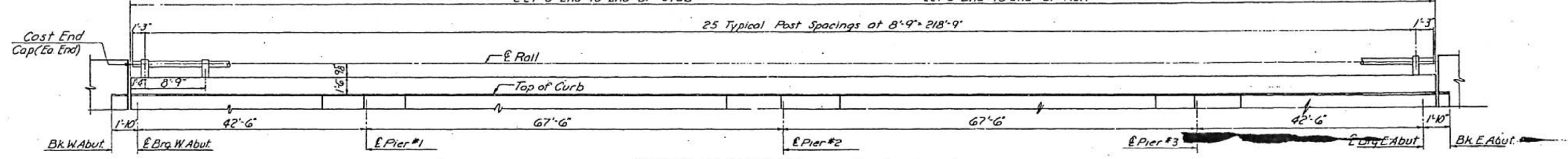
EXISTING BRIDGE PLANS  
FOR INFORMATION ONLY  
SCALE: NONE SHEET NO. 3 OF 8 SHEETS STA. TO STA.

F.A.I. RTE. 57 SECTION (41-1)BR-1 COUNTY JEFFERSON TOTAL SHEETS 92 SHEET NO. 74 CONTRACT NO. 78455

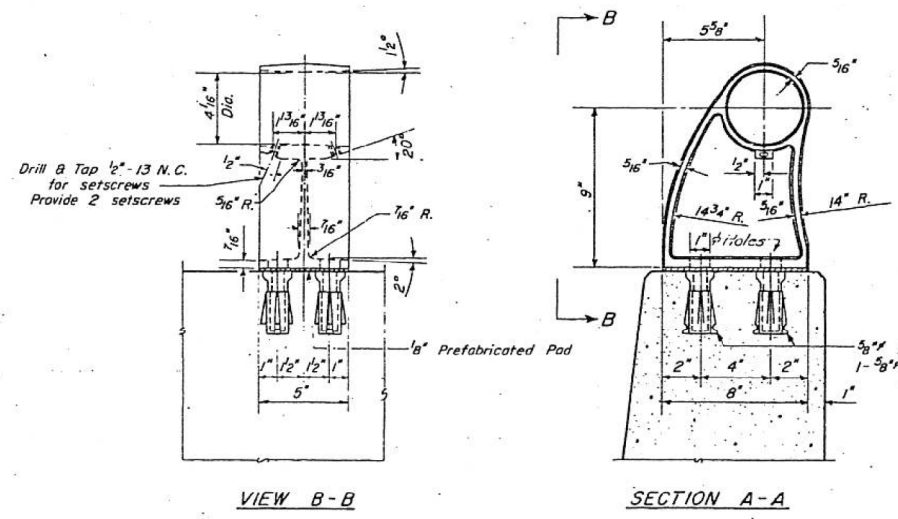
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SCALE = 1/8" = 1'-0"  
DATE = 10/3/2018 7:28:15 AM

STATE OF ILLINOIS  
DEPARTMENT OF PUBLIC WORKS & BUILDINGS  
DIVISION OF HIGHWAYS

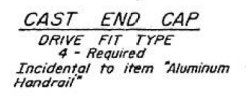
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DATE	12/31/62	SHEETS	
CONTRACT NO.	117-09-55	10	



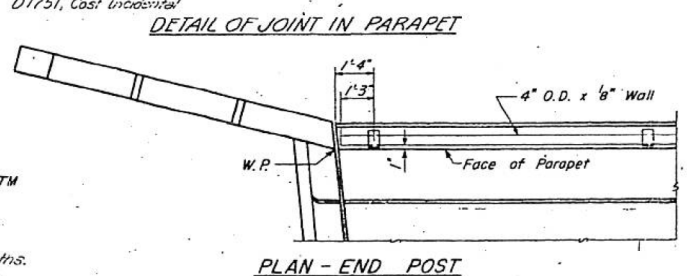
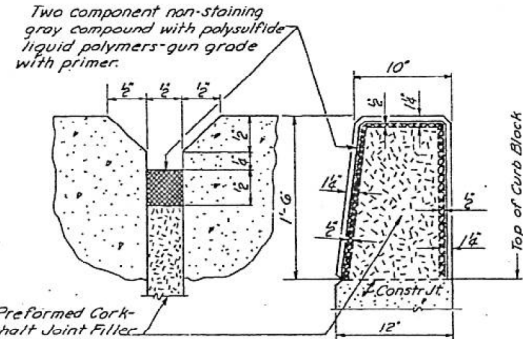
PLAN (Showing Parapet joint & Reinforcement)  
South rail similar by rotation thru 180°



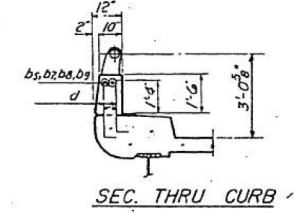
VIEW B-B  
SECTION A-A  
RAIL POST DETAILS



CAST END CAP  
DRIVE FIT TYPE  
4 - #5 Bars  
2 - #5 Bars  
Incidental to item Aluminum Handrail



PLAN - END POST



SEC. THRU CURB

Item	Unit	Quantity
Aluminum Handrail	Lin. Ft.	443
Class X Concrete	Cu. Yds.	226
Reinforcement Bars	Lbs.	4650

BILL OF MATERIAL

Bar	No.	Size	Length	Shape
bs	32	#5	7'-9"	---
b7	16	#5	10'-9"	---
b8	32	#5	17'-3"	---
b9	48	#5	15'-9"	---
d	992	#5	2'-9"	---

BAR LIST

DESIGNED: *W. H. Hanson*  
 CHECKED: *W. A. Sausaman*  
 DRAWN: *W. A. Sausaman*

EXAMINED: *H. G. Beermann*  
 PASSED: *E. J. Bluff*  
 APPROVED: *T. E. Bluff*

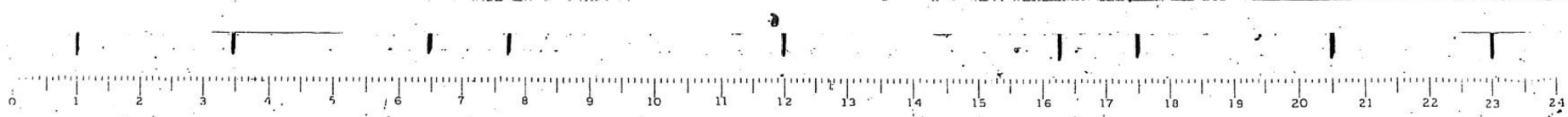
DATE: DEC 31 1962

R-10 Drawn 2-16-60 Rev. 9-17-62

NOTES  
 All Posts shall be placed normal to parapet  
 All Posts shall be of Aluminum conforming to ASTM Specification B-108 alloy 56-70B-T6.  
 All Rail Tubing shall be of Aluminum conforming to ASTM Specification B-235 alloy 6061-T6.  
 The contract unit price per lineal foot for aluminum handrail shall include the furnishing, fabrication, transportation and erection of all material.  
 Rail Tubing may extend a maximum of 3 panel lengths.  
 For material composition of Prefabricated Pad, See Art. 54.9 (f), (Bearings and Anchorage), of the Std. Specs.  
 Set Screws shall be of Aluminum conforming to ASTM Specification B-211 alloy 2024-T4.  
 Aluminum handrail shall be measured in lineal feet. The length paid for shall be the overall length along the top longitudinal railing member through all post and gaps.

Aluminum handrail will be paid for at the contract unit price per lineal foot for ALUMINUM HANDRAIL, measured as specified.

HANDRAIL  
 F.A.I.R.T. 57 SEC. 41-1HB-1  
 JEFFERSON COUNTY  
 STA. 117+09.55



USER NAME = kjk  
 ESCA PROJECT NO. 1295.02  
 PLOT SCALE = 3/2" = 1'-0"

DESIGNED - KJK  
 DRAWN - KJK  
 CHECKED - ELH  
 DATE - 03/18

REVISED -  
 REVISED -  
 REVISED -  
 REVISED -

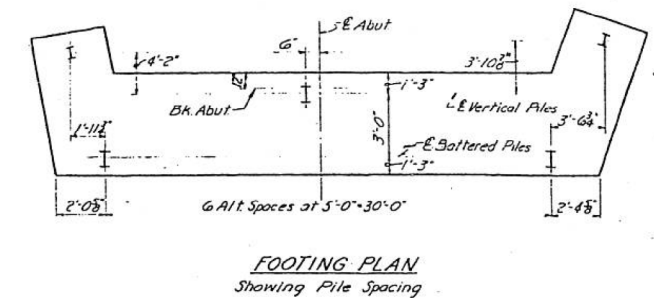
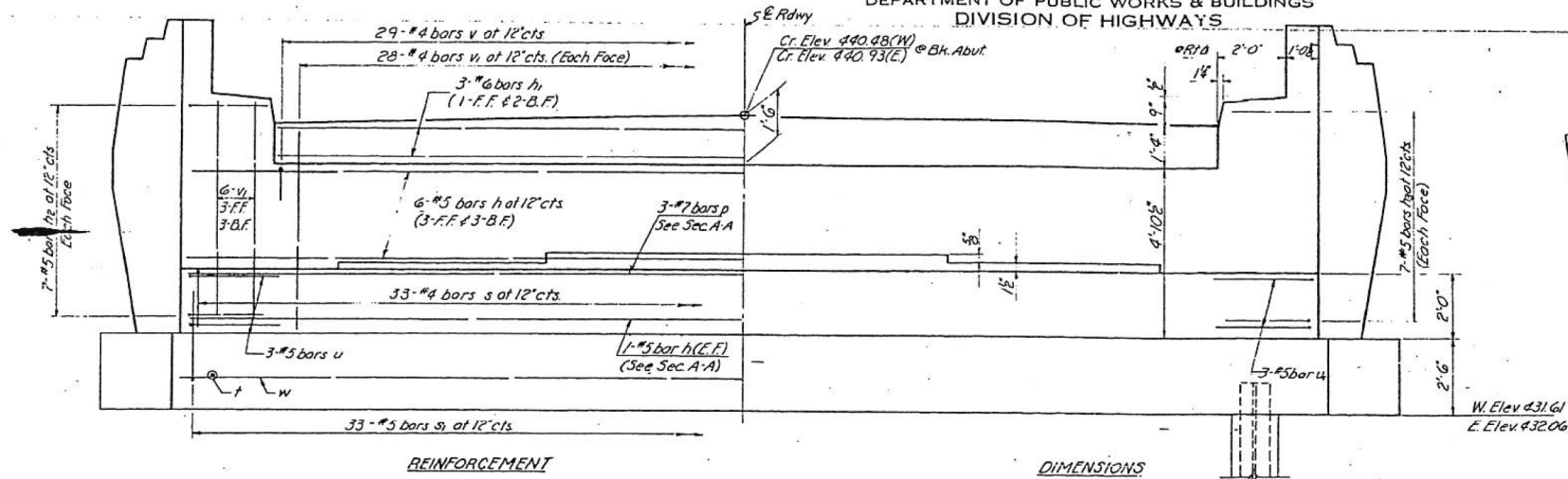
STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

EXISTING BRIDGE PLANS  
 FOR INFORMATION ONLY  
 SCALE: NONE  
 SHEET NO. 4 OF 8 SHEETS  
 STA. TO STA.

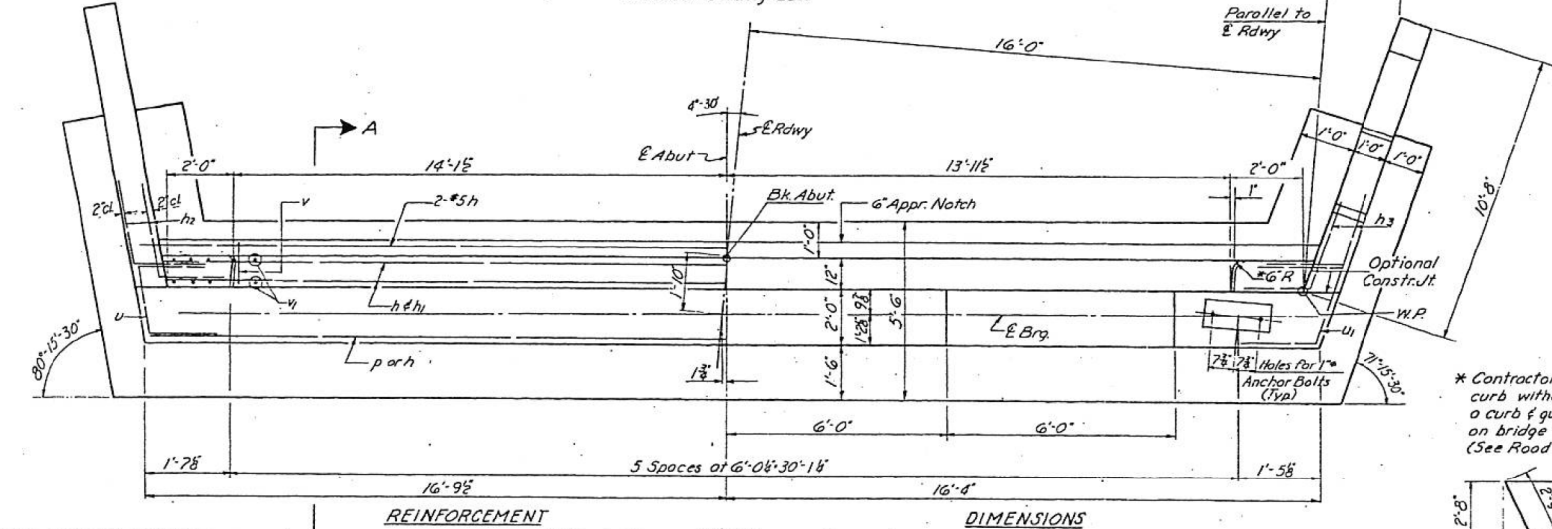
F.A.I.R.T.E. SECTION COUNTY TOTAL SHEETS SHEET NO.  
 57 (41-1BR-1) JEFFERSON 92 75  
 CONTRACT NO. 78455  
 FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT

STATE OF ILLINOIS  
DEPARTMENT OF PUBLIC WORKS & BUILDINGS  
DIVISION OF HIGHWAYS

PROJECT NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAI 57	41-1	JEFFERSON	173	46
DESIGNER	DATE	SCALE	SHEET NO. 7 10 SHEETS	



ELEVATION @ Rt. to E Rdwy  
W. Abut. Looking West  
E. Abut. Looking East



For details of End Post & pile encasement & Section A-A see sheet 8 of 10

TWO ABUTMENTS  
BAR LIST

Bar	No.	Size	Length	Shape
h	20	#5	32'-9"	—
h1	6	#6	27'-9"	—
h2	28	#5	4'-9"	—
h3	28	#5	4'-9"	—
n	56	#5	4'-0"	—
p	6	#7	32'-9"	—
s	66	#4	6'-5"	—
s1	66	#5	7'-9"	—
f	66	#5	5'-3"	—
t	40	#5	2'-9"	—
u	6	#5	5'-9"	—
u1	6	#5	5'-10"	—
v	58	#4	2'-9"	—
v1	136	#4	6'-0"	—
w	10	#5	34'-0"	—
m	12	#5	9'-3"	—

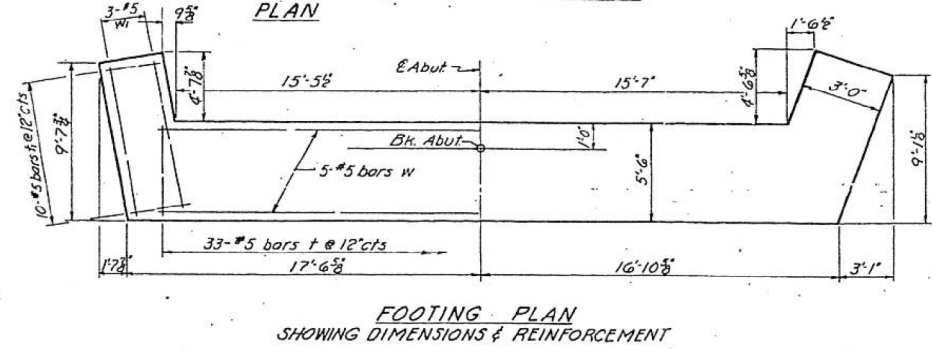
TWO ABUTMENTS  
BILL OF MATERIAL

Item	Unit	Quantity
Class X Concrete	Cu. Yds.	76.6
Reinforcement Bars	Lbs.	5200
Steel Piles (8BP36)	Lin. Ft.	584
Test Piles (Steel)	Each	1

Note: Bill of Material includes Reinforcement and Class X Concrete for End Posts.

ABUTMENTS  
F.A.I. RT. 57 SEC. 41-1HB-1  
JEFFERSON COUNTY  
STA. 117+09.55

DESIGNED	W.E. Dickerson	EXAMINED	H.C. Bauman	DATE	DEC 31 1922
CHECKED	Abraham J. Beck	PASSED	Elmer		
DRAWN	W.E. Dickerson	APPROVED	V.E. Duff		
CHECKED	Abraham J. Beck				



\* Contractor shall construct curb without radius when a curb & gutter are used on bridge approaches. (See Road Plans)

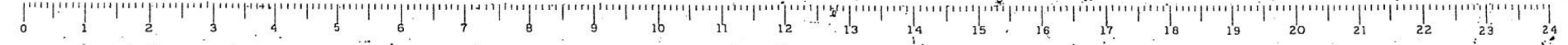
BAR u

PILE DATA

Type - Steel Piles (8BP36)  
Est. Length - 37'-0" @ W. Abut & 32'-0" @ E. Abut.  
No. Reg'd - 17+1 Test Pile @ W. Abut.

BAR u1

BAR h3



USER NAME	= kjk	DESIGNED	- KJK	REVISED	-
ESCA PROJECT NO.	1295.02	DRAWN	- KJK	REVISED	-
PLOT SCALE	= 1/2" = 1' / in.	CHECKED	- ELH	REVISED	-
PLOT DATE	= 10/3/2018	DATE	- 03/18	REVISED	-

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

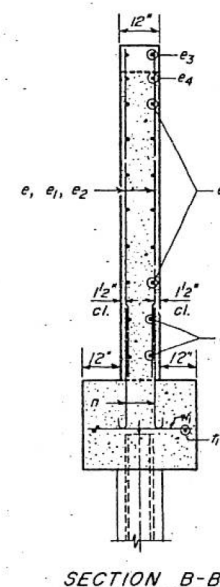
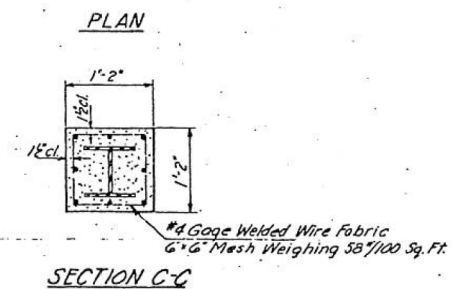
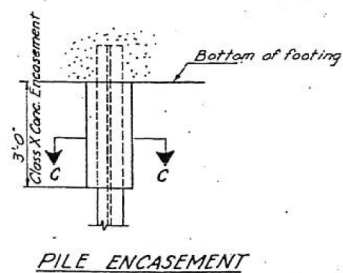
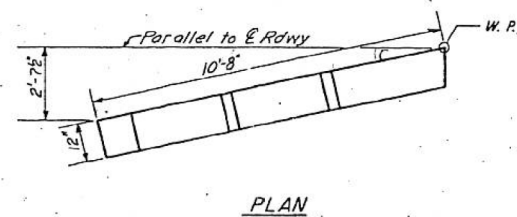
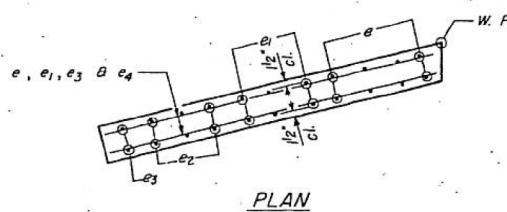
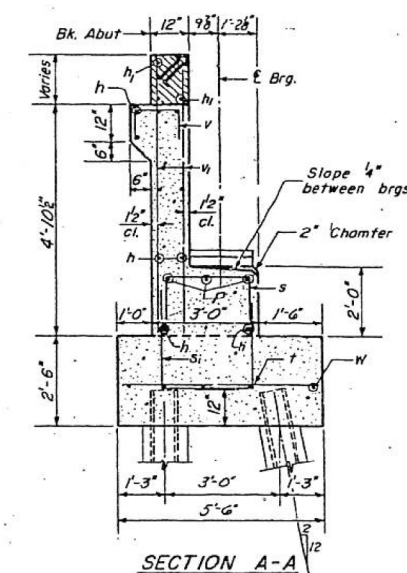
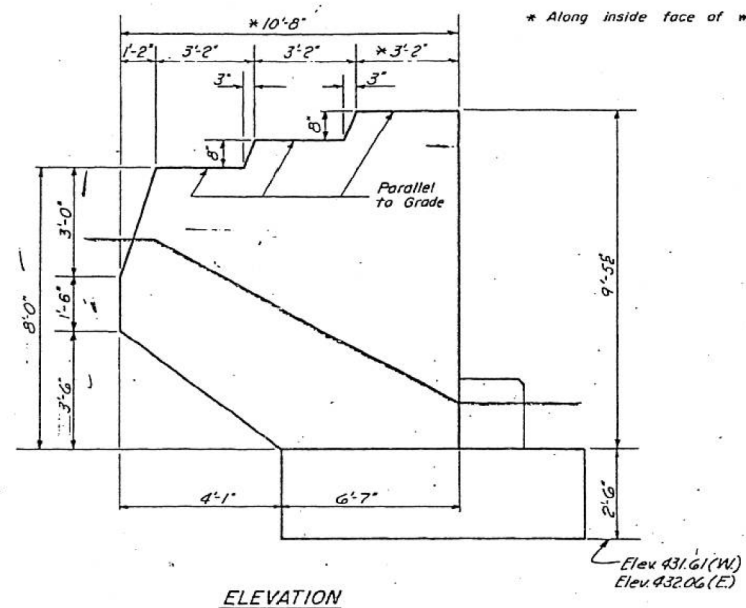
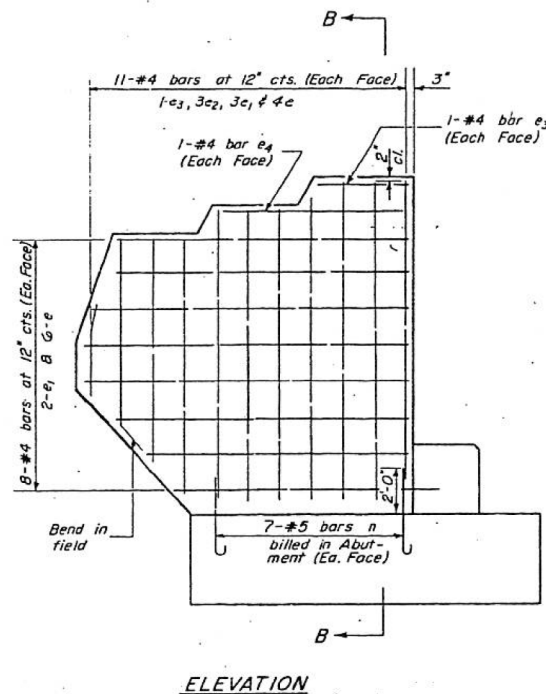
EXISTING BRIDGE PLANS  
FOR INFORMATION ONLY

SCALE: NONE SHEET NO. 5 OF 8 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	(41-1)BR-1	JEFFERSON	92	76
CONTRACT NO. 78455				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

STATE OF ILLINOIS  
DEPARTMENT OF PUBLIC WORKS & BUILDINGS  
DIVISION OF HIGHWAYS

PROJECT NO.	SECTION	COUNTY	SCALE	SHEET NO.
FAI 57	41-1	JEFFERSON	173	47
SHEET NO. 6 OF 10 SHEETS				



ONE END POST  
BILL OF MATERIAL

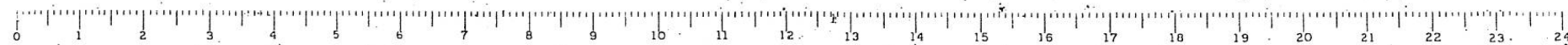
Bar	No.	Size	Length	Shape
e	20	#4	9'-0"	---
e1	10	#4	8'-0"	---
e2	6	#4	7'-0"	---
e3	4	#4	2'-9"	---
e4	2	#4	5'-9"	---
Class X Concrete			Cu. Yds.	2.9
Reinforcement Bars			Lbs.	217

Note: Cost of Class X Concrete encasement and reinforcement to be incidental to cost of furnishing piles

WING WALLS  
F.A.I. RT. 57 SEC. 41-1HB-1  
JEFFERSON COUNTY  
STA. 117+09.55

DESIGNED	<i>W. A. Sausgrat</i>	EXAMINED	<i>W. E. Dickerson</i>
CHECKED	<i>Abraham K. Beck</i>	PASSED	<i>W. A. Sausgrat</i>
DRAWN	<i>W. A. Sausgrat</i>	APPROVED	<i>V. E. Claff</i>
CHECKED	<i>Abraham K. Beck</i>		

AW-2 Drawn 2-2-60



PRINT DRIVER = L:\05-60\2018\12-28-18\12-28-18.dwg



USER NAME = kjk	DESIGNED - KJK	REVISED -
ESCA PROJECT NO. 1295.02	DRAWN - KJK	REVISED -
PLOT SCALE = 0.2' = 1" / 1/8"	CHECKED - ELH	REVISED -
PLOT DATE = 10/3/2018 7:28:54 AM	DATE - 03/18	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

EXISTING BRIDGE PLANS  
FOR INFORMATION ONLY

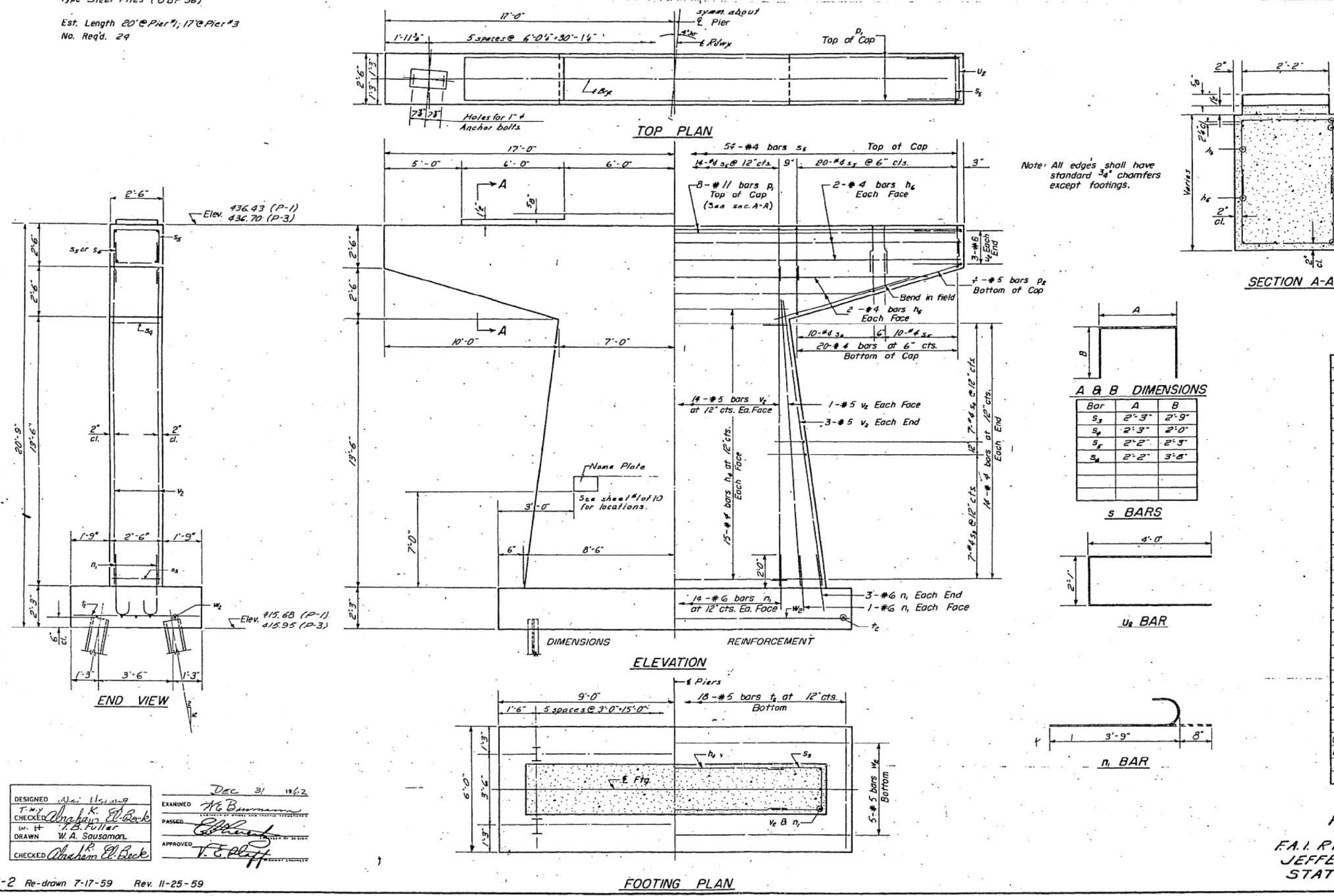
SCALE: NONE SHEET NO. 6 OF 8 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	(41-1)BR-1	JEFFERSON	92	77
CONTRACT NO. 78455				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

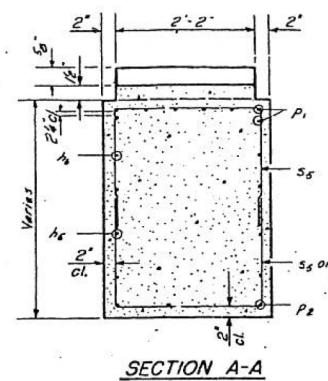
**PILE DATA**  
 Type Steel Piles (BBP36)  
 Est. Length 20' @ Pier #1, 17' @ Pier #3  
 No. Req'd. 29

STATE OF ILLINOIS  
 DEPARTMENT OF PUBLIC WORKS & BUILDINGS  
 DIVISION OF HIGHWAYS

PROJECT NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAI-57	41-1	JEFFERSON	173	48
SHEET NO. 9				
10 SHEETS				

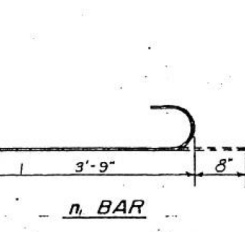
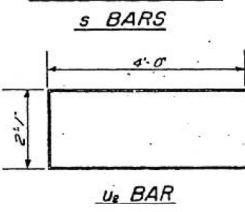
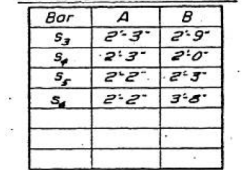


Note: All edges shall have standard 3/4" chamfers except footings.



**A & B DIMENSIONS**

Bar	A	B
s <sub>2</sub>	2'-3"	2'-9"
s <sub>3</sub>	2'-3"	2'-0"
s <sub>4</sub>	2'-2"	2'-3"
s <sub>5</sub>	2'-2"	3'-8"



**PIERS #1 & #3  
 BILL OF MATERIAL**

Bar	No.	Size	Length	Shape
n <sub>1</sub>	60	#4	13'-9"	—
h <sub>2</sub>	8	#4	29'-0"	—
h <sub>2</sub>	8	#4	33'-9"	—
n <sub>1</sub>	76	#6	4'-5"	U
p <sub>1</sub>	16	#11	33'-9"	—
p <sub>2</sub>	16	#5	11'-6"	—
s <sub>2</sub>	28	#4	7'-9"	□
s <sub>3</sub>	28	#4	6'-3"	□
s <sub>4</sub>	148	#4	6'-8"	□
s <sub>5</sub>	40	#4	9'-6"	□
h <sub>2</sub>	36	#5	5'-9"	—
u <sub>2</sub>	12	#6	10'-1"	□
v <sub>2</sub>	76	#5	16'-3"	—
w <sub>2</sub>	10	#5	17'-9"	—
Class X Concrete				Cu. Yds. 84.4
Reinforcement Bars				Lbs. 7500
Name Plates				Each 2
Steel Piles (BBP36)				Lin. Ft. 444

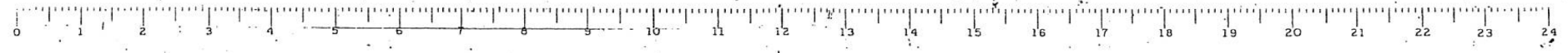
**PIERS #1 & #3**  
 F.A.I. RT. 57 SEC. 41-1HB-1  
 JEFFERSON COUNTY  
 STATION 117+09.55

DESIGNED: Wei Hsing  
 T.M.Y.  
 CHECKED: Abraham El-Bek  
 W. B. Fuller  
 DRAWN: W. A. Sausaman  
 CHECKED: Abraham El-Bek

EXAMINED: H. G. Burmann  
 PASSED: [Signature]  
 APPROVED: T. E. Bluff

Dec 31 1962

P-2 Re-drawn 7-17-59 Rev. 11-25-59



PRINTED BY: ESCA CONSULTANTS, INC.  
 SCALE: NONE  
 SHEET NO. 9



USER NAME = kjk	DESIGNED - KJK	REVISED -
ESCA PROJECT NO. 1295.02	DRAWN - KJK	REVISED -
PLOT SCALE = 0.2" = 1' in.	CHECKED - ELH	REVISED -
PLOT DATE = 10/3/2018 7:29:05 AM	DATE - 03/18	REVISED -

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

EXISTING BRIDGE PLANS  
 FOR INFORMATION ONLY  
 SCALE: NONE SHEET NO. 7 OF 8 SHEETS STA. TO STA.

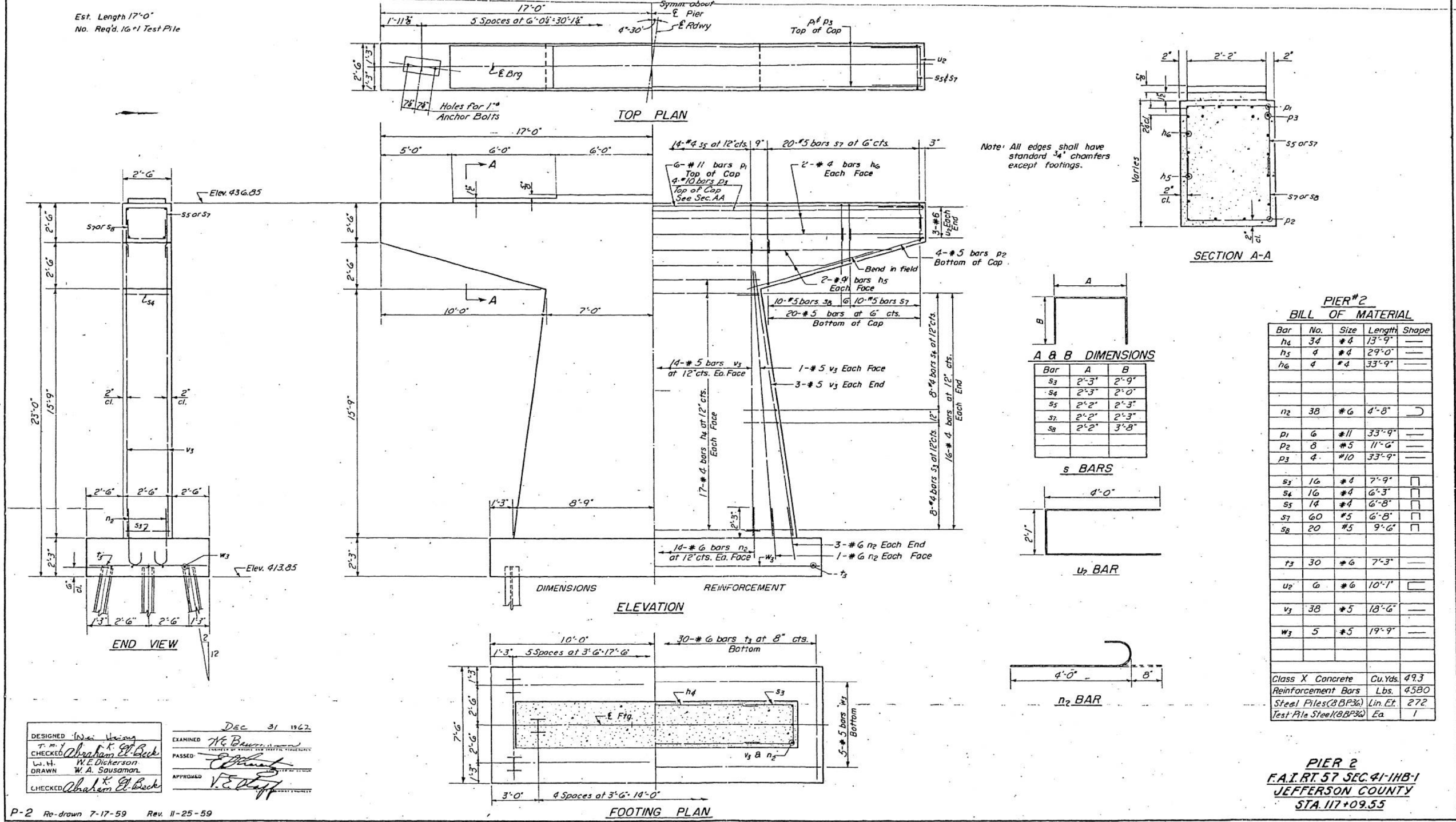
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	(41-1)BR-1	JEFFERSON	92	78
CONTRACT NO. 78455				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

STATE OF ILLINOIS  
DEPARTMENT OF PUBLIC WORKS & BUILDINGS  
DIVISION OF HIGHWAYS.

PROJECT NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FA157	41-1	JEFFERSON	173	49
SHEET NO 10 10 SHEETS				

**PILE DATA**  
Type - Steel Piles (BBP36)

Est. Length 17'-0"  
No. Req'd. 16 x 1 Test Pile

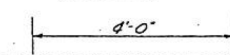


Note: All edges shall have standard 3/4" chamfers except footings.

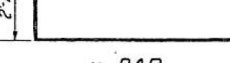
**A & B DIMENSIONS**

Bar	A	B
s <sub>3</sub>	2'-3"	2'-9"
s <sub>4</sub>	2'-3"	2'-0"
s <sub>5</sub>	2'-2"	2'-3"
s <sub>7</sub>	2'-2"	2'-3"
s <sub>8</sub>	2'-2"	3'-8"

**s BARS**



**u<sub>2</sub> BAR**



**n<sub>2</sub> BAR**



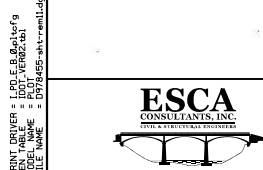
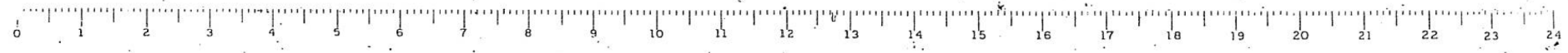
**PIER #2  
BILL OF MATERIAL**

Bar	No.	Size	Length	Shape
h <sub>4</sub>	3d	#4	13'-9"	—
h <sub>5</sub>	4	#4	29'-0"	—
h <sub>6</sub>	4	#4	33'-9"	—
n <sub>2</sub>	38	#6	4'-8"	U
p <sub>1</sub>	6	#11	33'-9"	—
p <sub>2</sub>	8	#5	11'-6"	—
p <sub>3</sub>	4	#10	33'-9"	—
s <sub>3</sub>	16	#4	7'-9"	□
s <sub>4</sub>	16	#4	6'-3"	□
s <sub>5</sub>	14	#4	6'-8"	□
s <sub>7</sub>	60	#5	6'-8"	□
s <sub>8</sub>	20	#5	9'-6"	□
t <sub>3</sub>	30	#6	7'-3"	—
u <sub>2</sub>	6	#6	10'-1"	—
v <sub>3</sub>	38	#5	18'-6"	—
w <sub>3</sub>	5	#5	19'-9"	—
Class X Concrete		Cu. Yds.	49.3	
Reinforcement Bars		Lbs.	4580	
Steel Piles (BBP36)		Lin. Ft.	272	
Test Pile Steel (BBP36)		Ea.	1	

**PIER #2  
F.A.I. RT. 57 SEC. 41-11B-1  
JEFFERSON COUNTY  
STA. 117+09.55**

DESIGNED: *W. A. Sausaman*  
CHECKED: *Abraham E. Beck*  
L. H. DRAWN: *W. A. Sausaman*  
EXAMINED: *W. E. Dickerson*  
PASSED: *W. E. Dickerson*  
APPROVED: *V. E. Bluff*  
DATE: DEC 31 1962

P-2 Re-drawn 7-17-59 Rev. 11-25-59



USER NAME = kjk	DESIGNED - KJK	REVISED -
ESCA PROJECT NO. 1295.02	DRAWN - KJK	REVISED -
PLOT SCALE = 0.2" = 1' / in.	CHECKED - ELH	REVISED -
PLOT DATE = 10/3/2018 7:29:16 AM	DATE - 03/18	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

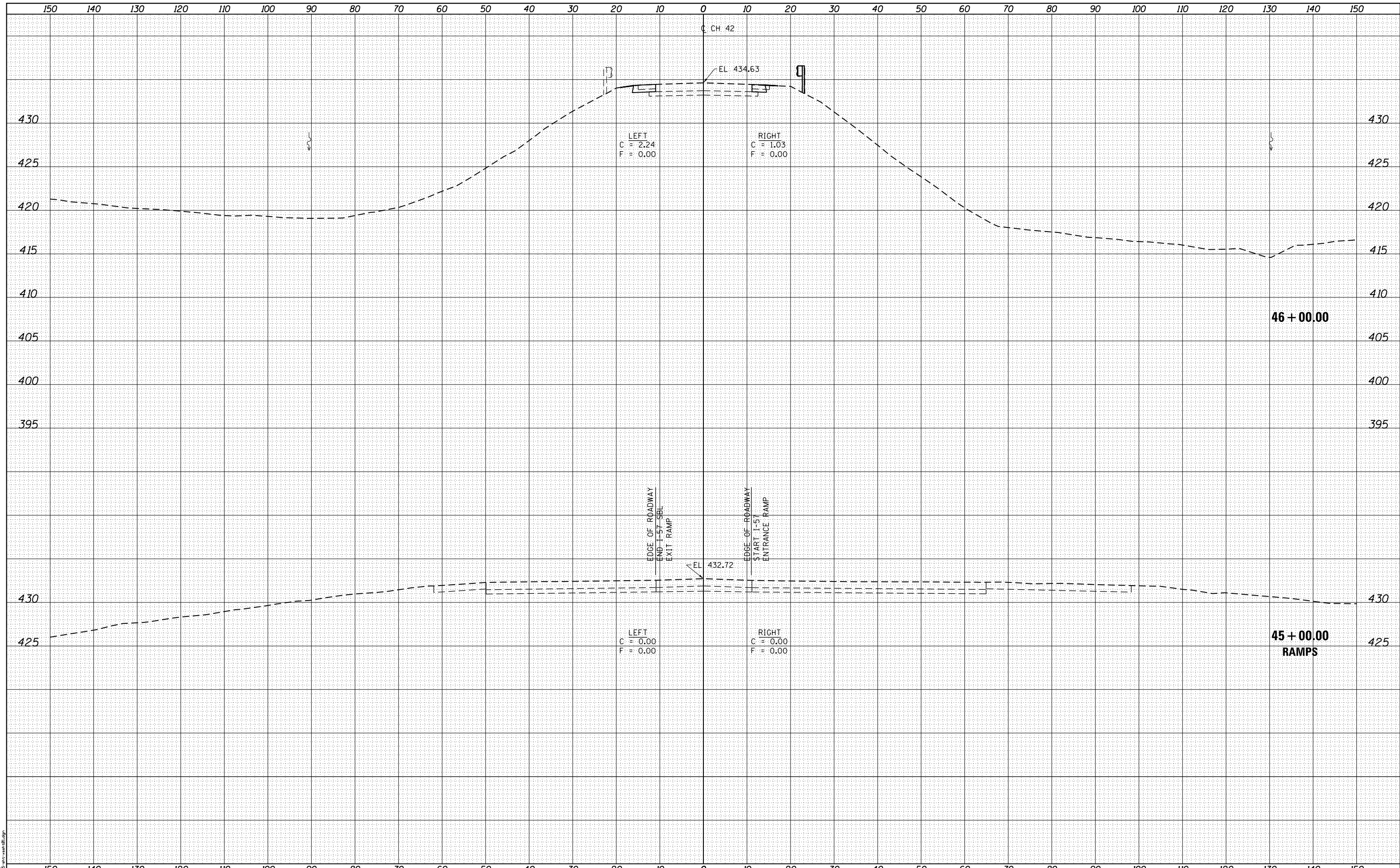
EXISTING BRIDGE PLANS  
FOR INFORMATION ONLY

SCALE: NONE SHEET NO. 8 OF 8 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	(41-1)BR-1	JEFFERSON	92	79
CONTRACT NO. 78455				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

DATE	
BY	
ORIGINAL SURVEY	
SURVEYED	
PLOTTED	
TEMPLATE	
AREAS	
CHECKED	
NO.	

DATE	
BY	
ORIGINAL SURVEY	
SURVEYED	
PLOTTED	
TEMPLATE	
AREAS	
CHECKED	
NO.	



PRINT DRIVER: KAH/KJK  
 PLOT DATE: 10/3/2018 7:37:24 AM  
 FILE NAME: I:\Projects\1295\1295.dwg



USER NAME = kjk	DESIGNED - ELH	REVISED -
ESCA PROJECT NO. 1295.02	DRAWN - KAH/KJK	REVISED -
SCALE: (HORIZ) 1"=10' (VERT) 1"=5'	CHECKED - ELH	REVISED -
PLOT DATE: 10/3/2018 7:37:24 AM	DATE - 05/18	REVISED -

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**FAS 824 (CH 42) CROSS SECTIONS**

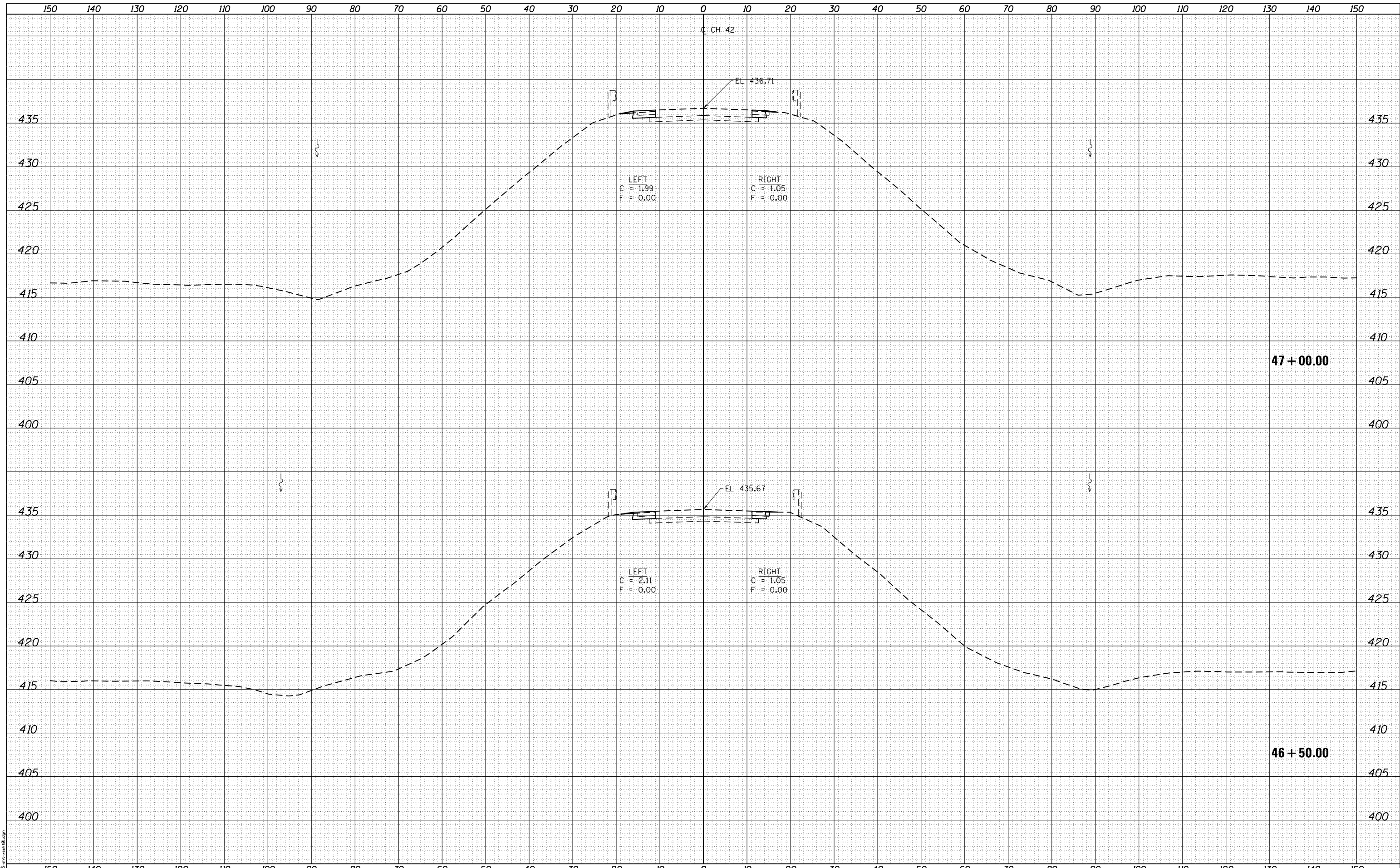
SCALE: AS SHOWN    SHEET NO. 1 OF 10 SHEETS    STA. 45+00.00 TO STA. 46+00.00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	(41-1)BR-1	JEFFERSON	92	80
CONTRACT NO. 78455				
ILLINOIS FED. AID PROJECT				



DATE	
BY	
ORIGINAL SURVEY	
PLOTTED	
TEMPLATE	
AREAS	
CHECKED	
NO.	

DATE	
BY	
ORIGINAL SURVEY	
PLOTTED	
TEMPLATE	
AREAS	
CHECKED	
NO.	



PRINT DRIVER: P:\LBR\88  
 PLOT DATE: 10/3/2018 7:37:24 AM  
 FILE NAME: D:\2015\10-03-2018\10-03-2018.dwg



USER NAME = kjk  
 ESCA PROJECT NO. 1295.02  
 SCALES: (HORIZ) 1"=10' (VERT) 1"=5'  
 PLOT DATE: 10/3/2018 7:37:24 AM

DESIGNED - ELH  
 DRAWN - KAH/KJK  
 CHECKED - ELH  
 DATE - 05/18

REVISED -  
 REVISED -  
 REVISED -  
 REVISED -

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

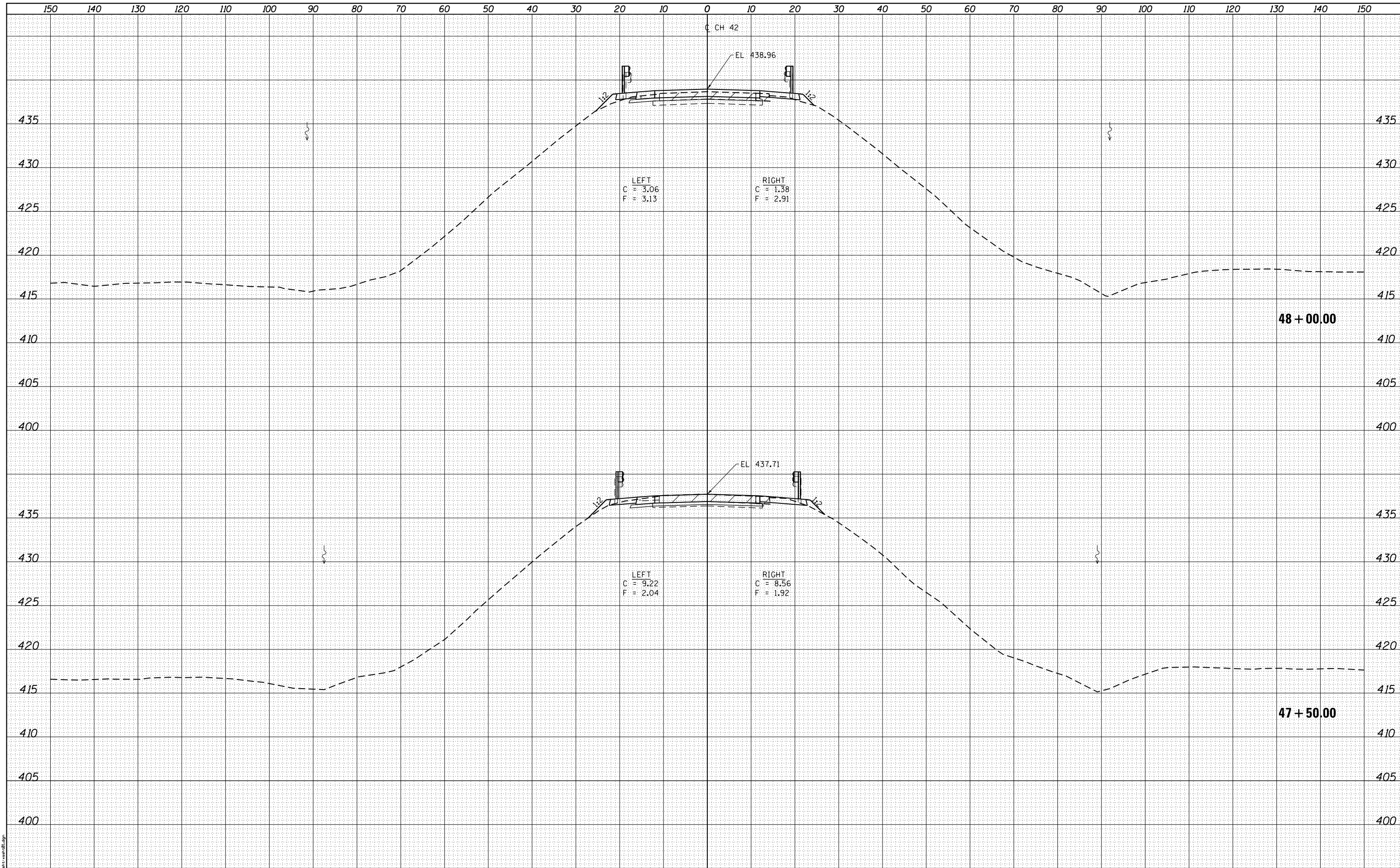
**FAS 824 (CH 42) CROSS SECTIONS**

SCALE: AS SHOWN SHEET NO. 2 OF 10 SHEETS STA. 46+50.00 TO STA. 47+00.00

F.A.I. RTÉ.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	(41-1)BR-1	JEFFERSON	92	81
				CONTRACT NO. 78455
ILLINOIS FED. AID PROJECT				

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

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



PRINT DRIVER: KJH  
 PLOT DATE: 10/3/2018 7:37:25 AM  
 FILE NAME: 41-1BR-1.dwg



USER NAME = kjk	DESIGNED - ELH	REVISIED -
ESCA PROJECT NO. 1295.02	DRAWN - KAH/KJK	REVISIED -
SCALES: (HORIZ) 1"=10' (VERT) 1"=5'	CHECKED - ELH	REVISIED -
PLOT DATE: 10/3/2018 7:37:25 AM	DATE - 05/18	REVISIED -

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

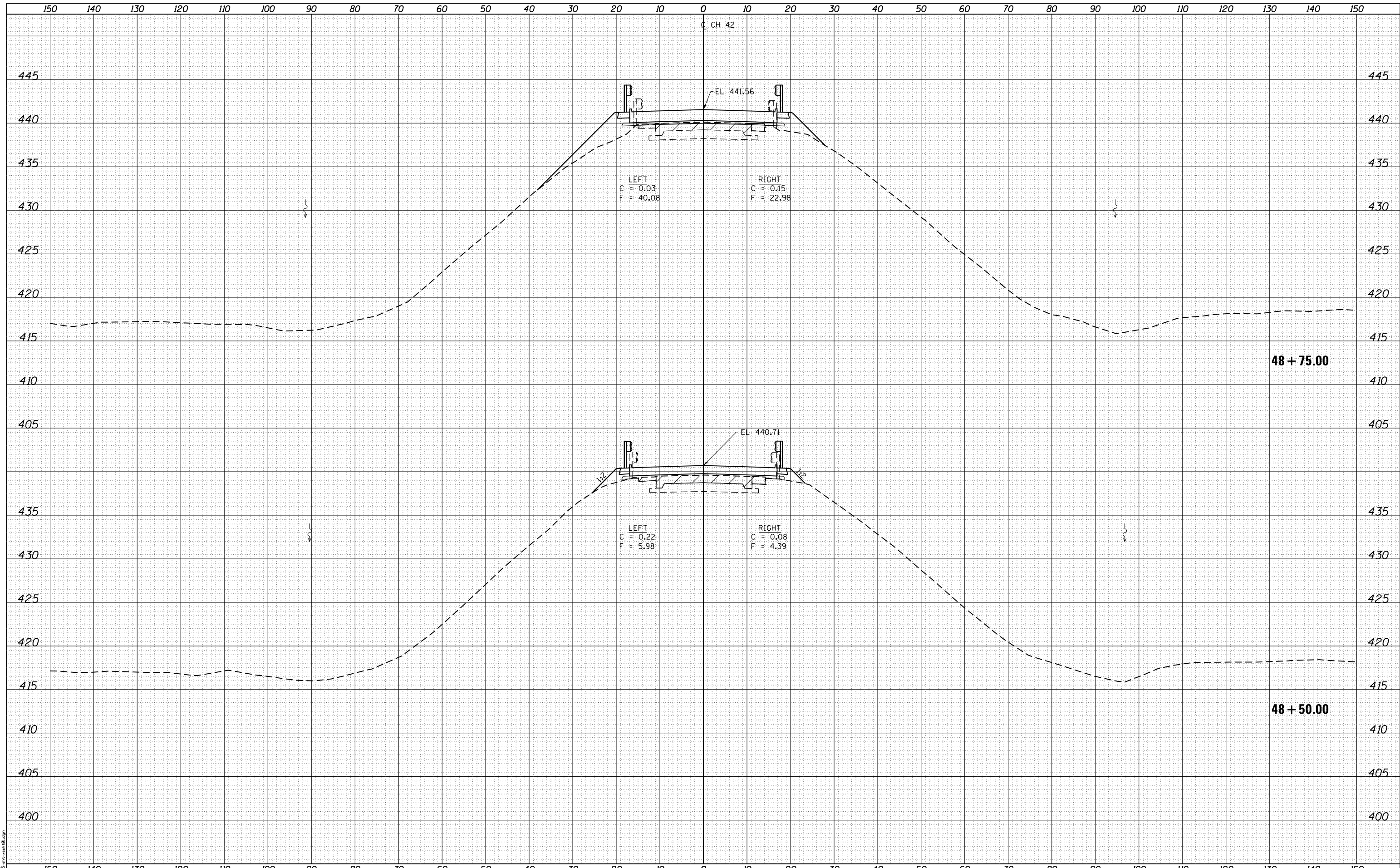
**FAS 824 (CH 42) CROSS SECTIONS**

SCALE: AS SHOWN SHEET NO. 3 OF 10 SHEETS STA. 47+50.00 TO STA. 48+00.00

F.A.I. RTÉ.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	(41-1)BR-1	JEFFERSON	92	82
CONTRACT NO. 78455				
ILLINOIS FED. AID PROJECT				

DATE	
BY	
ORIGINAL SURVEY	
SURVEYED	
PLOTTED	
TEMPLATE	
AREAS	
CHECKED	
NO.	

DATE	
BY	
ORIGINAL SURVEY	
SURVEYED	
PLOTTED	
TEMPLATE	
AREAS	
CHECKED	
NO.	



PRINT DRIVER: P:\L\B\838  
 MODEL: 10/3/2018 7:37:25 AM  
 FILE NAME: 41-1BR-1-STA-48.dwg



USER NAME = kjk	DESIGNED - ELH	REVISIED -
ESCA PROJECT NO. 1295.02	DRAWN - KAH/KJK	REVISIED -
SCALE: (HORIZ) 1"=10' (VERT) 1"=5'	CHECKED - ELH	REVISIED -
PLOT DATE: 10/3/2018 7:37:25 AM	DATE - 05/18	REVISIED -

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**FAS 824 (CH 42) CROSS SECTIONS**

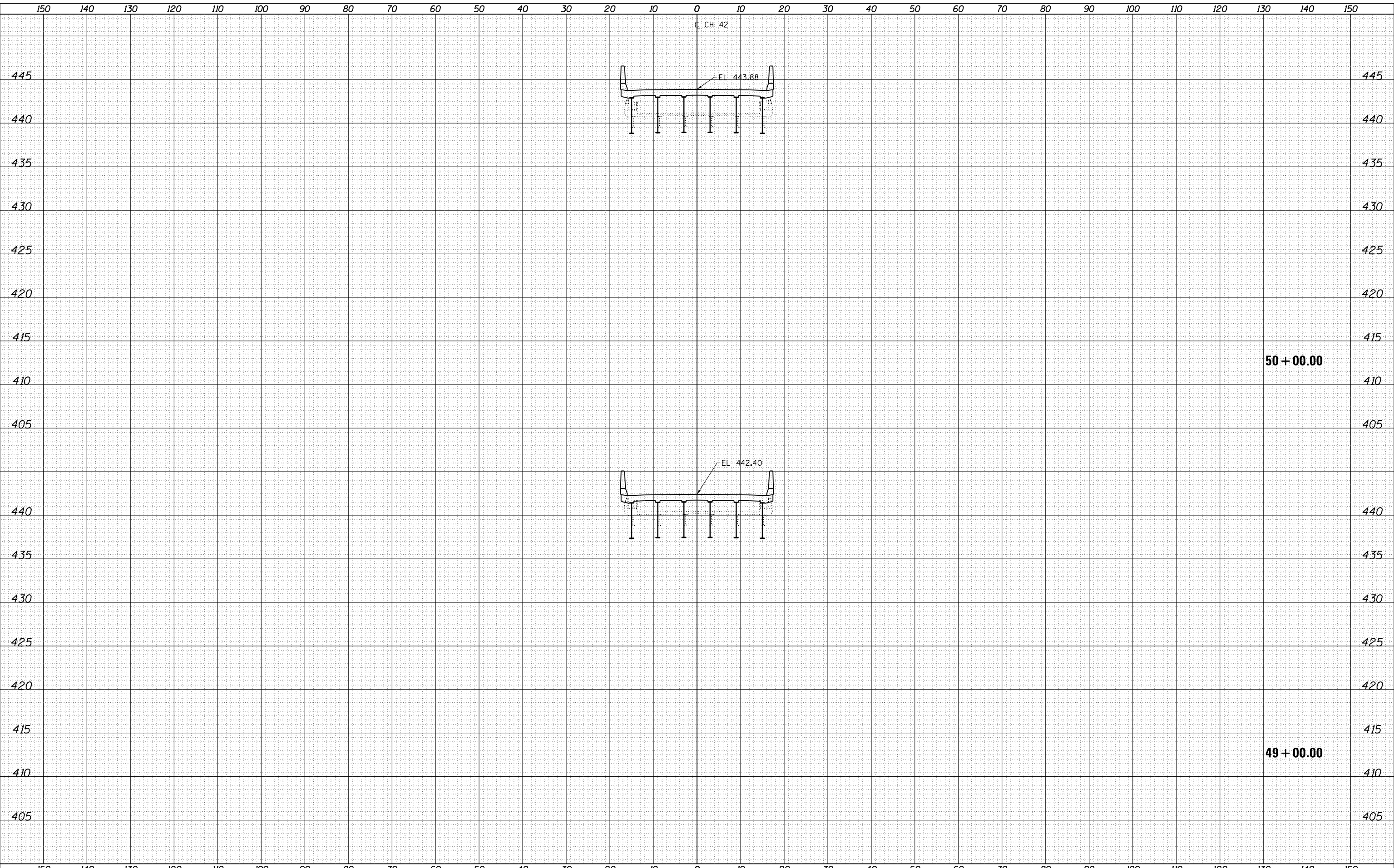
SCALE: AS SHOWN SHEET NO. 4 OF 10 SHEETS STA. 48+50.00 TO STA. 48+75.00

F.A.I. RTÉ.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	(41-1)BR-1	JEFFERSON	92	83
CONTRACT NO. 78455				
ILLINOIS FED. AID PROJECT				

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

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

PRINT DRIVER = P:\L\DRIVERS  
 MODEL MAKE = HP  
 FILE NAME = I:\PROJECTS\1295\1295.dwg



USER NAME = kjk  
 ESCA PROJECT NO. 1295.02  
 SCALES: (HORIZ) 1"=10' (VERT) 1"=5'  
 PLOT DATE = 10/3/2018 7:37:25 AM

DESIGNED - ELH  
 DRAWN - KAH/KJK  
 CHECKED - ELH  
 DATE - 05/18

REVISIED -  
 REVISIED -  
 REVISIED -  
 REVISIED -

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

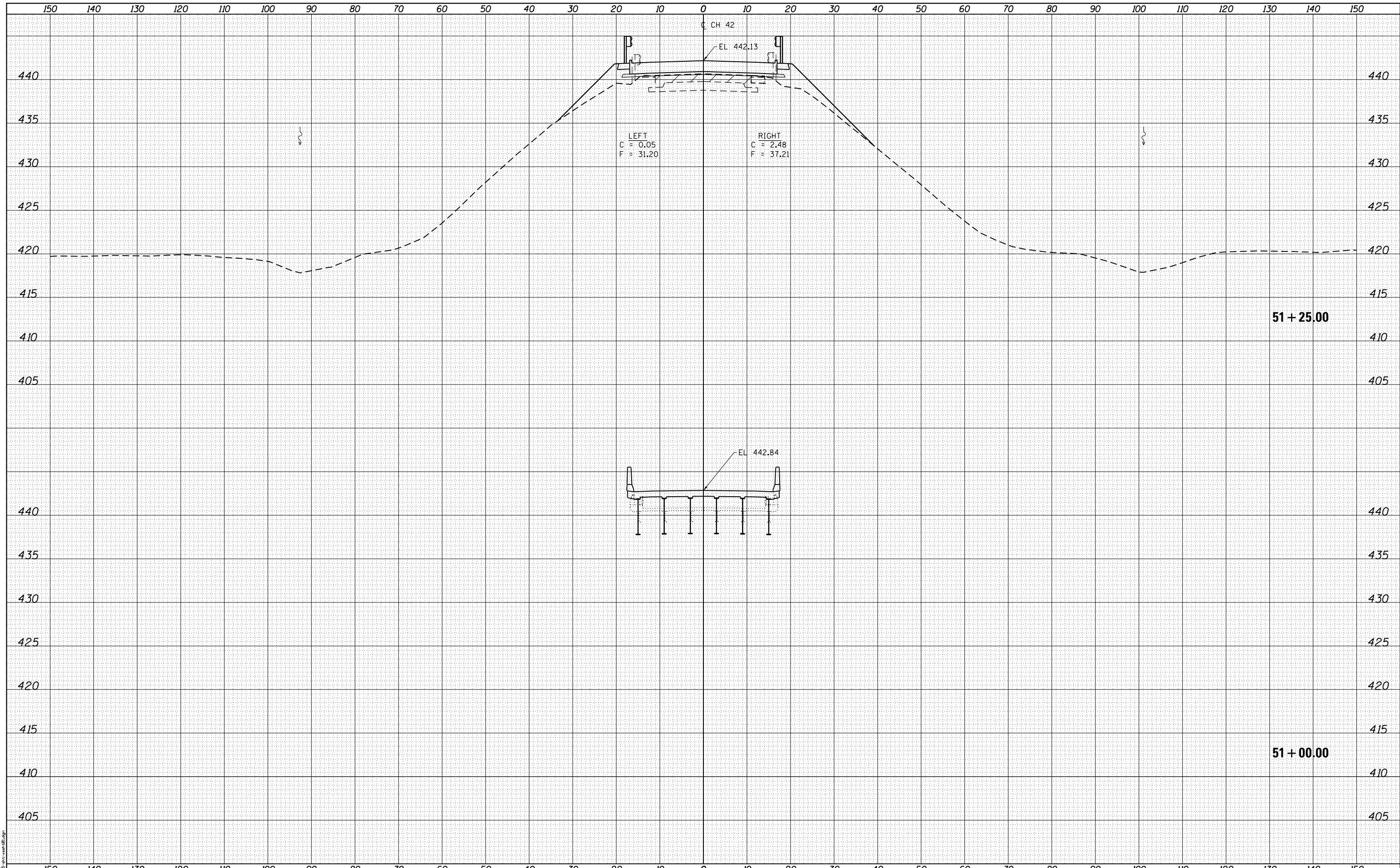
**FAS 824 (CH 42) CROSS SECTIONS**

SCALE: AS SHOWN SHEET NO. 5 OF 10 SHEETS STA. 49+00.00 TO STA. 50+00.00

F.A.I. RTÉ.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	(41-1)BR-1	JEFFERSON	92	84
CONTRACT NO. 78455			ILLINOIS FED. AID PROJECT	

DATE	
BY	
ORIGINAL SURVEY	
SURVEYED	
PLOTTED	
TEMPLATE	
AREAS	
CHECKED	
NO.	

DATE	
BY	
ORIGINAL SURVEY	
SURVEYED	
PLOTTED	
TEMPLATE	
AREAS	
CHECKED	
NO.	



PRINT DRIVER: P:\L\B\838  
 MODEL: 11000  
 FILE NAME: 12121505.dwg



USER NAME = kjk  
 ESCA PROJECT NO. 1295.02  
 SCALES: (HORIZ) 1"=10' (VERT) 1"=5'  
 PLOT DATE: 10/3/2018 7:37:25 AM

DESIGNED - ELH  
 DRAWN - KAH/KJK  
 CHECKED - ELH  
 DATE - 05/18

REVISÉD -  
 REVISÉD -  
 REVISÉD -  
 REVISÉD -

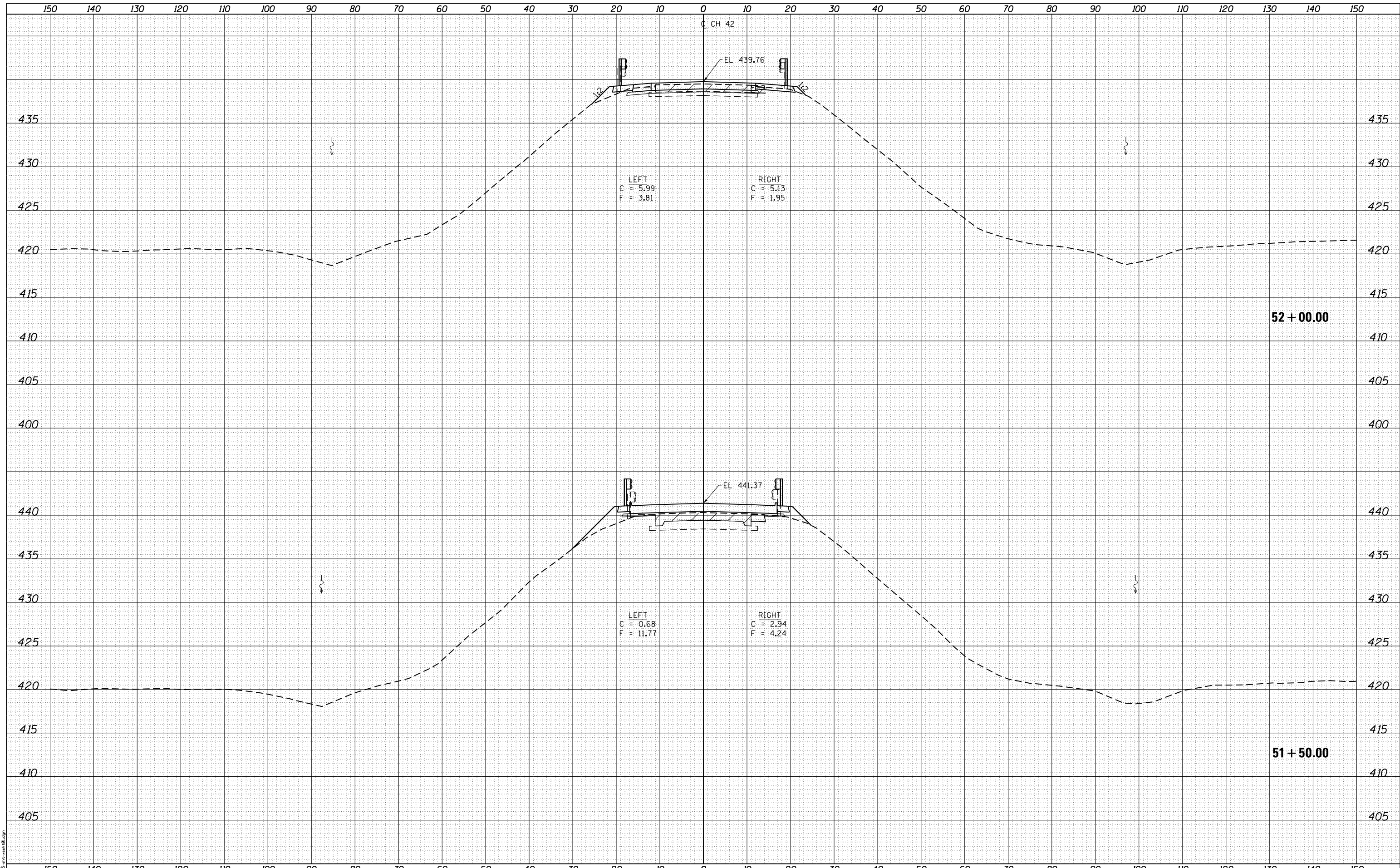
STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

FAS 824 (CH 42) CROSS SECTIONS  
 SCALE: AS SHOWN SHEET NO. 6 OF 10 SHEETS STA. 51+00.00 TO STA. 51+25.00

F.A.I. RTÉ.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	(41-1)BR-1	JEFFERSON	92	85
CONTRACT NO. 78455			ILLINOIS FED. AID PROJECT	

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

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



PRINT DRIVER: P:\L\824\824.dwg  
 PLOT DATE: 10/3/2018 7:37:25 AM



USER NAME = kjk  
 ESCA PROJECT NO. 1035.09  
 SCALES: (HORIZ) 1"=10' (VERT) 1"=5'  
 PLOT DATE: 10/3/2018 7:37:25 AM

DESIGNED - ELH  
 DRAWN - KAH/KJK  
 CHECKED - ELH  
 DATE - 06/18

REVISSED -  
 REVISSED -  
 REVISSED -  
 REVISSED -

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

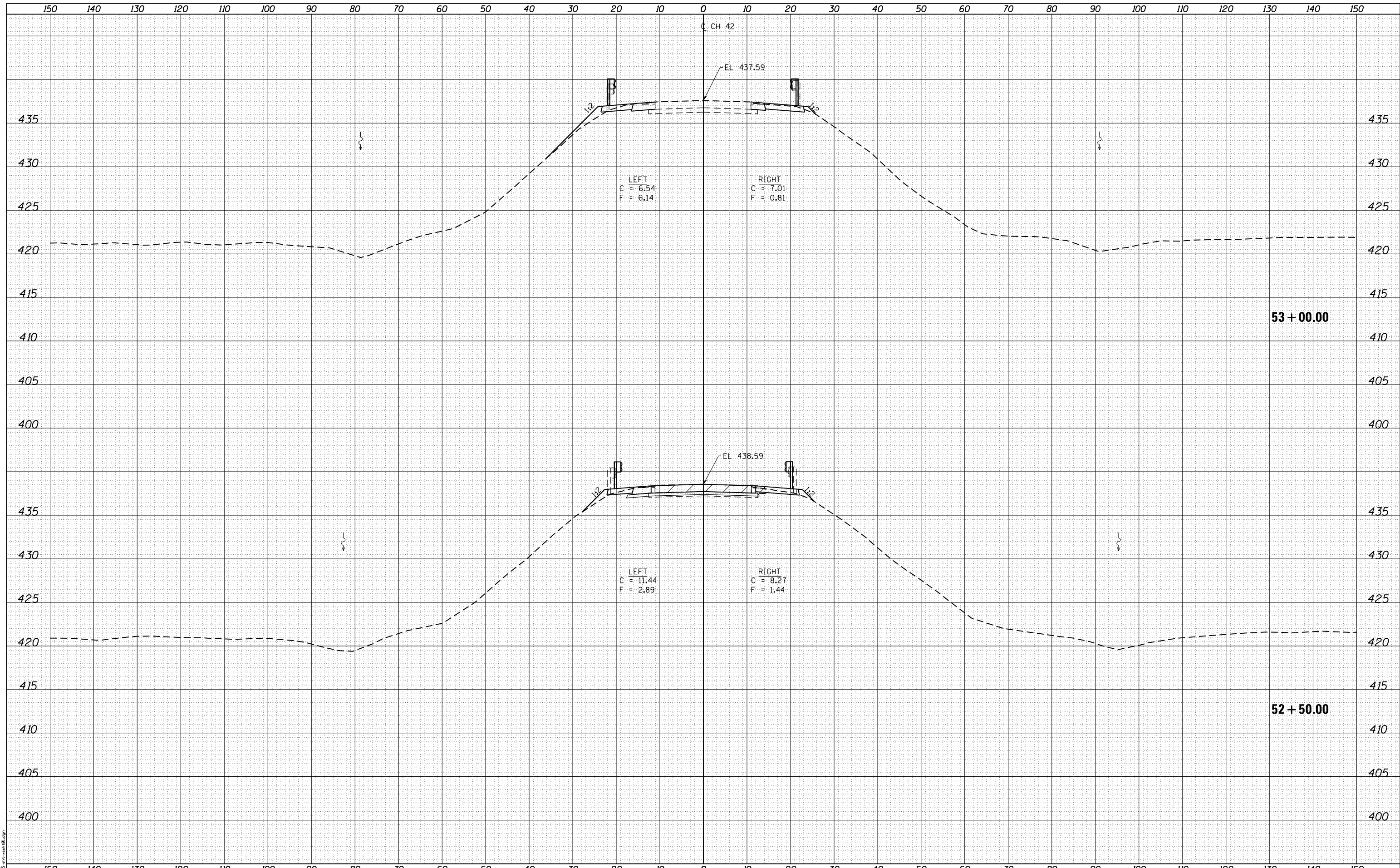
**FAS 824 (CH 42) CROSS SECTIONS**

SCALE: AS SHOWN SHEET NO. 7 OF 10 SHEETS STA. 51+50.00 TO STA. 52+00.00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	(41-1)BR-1	JEFFERSON	92	86
CONTRACT NO. 78455			ILLINOIS FED. AID PROJECT	

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

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



PRINT DRIVER: P:\L\B\838  
 PLOT DATE: 10/3/2018 7:37:26 AM  
 FILE NAME: 12955.dwg



USER NAME	= kjk
DESIGNED	- ELH
ESCA PROJECT NO.	1295.02
DRAWN	- KAH/KJK
SCALES:	(HORIZ) 1"=10' (VERT) 1"=5'
CHECKED	- ELH
PLOT DATE:	10/3/2018 7:37:26 AM
DATE	- 05/18

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REVISÉD	-
REVISÉD	-
REVISÉD	-

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

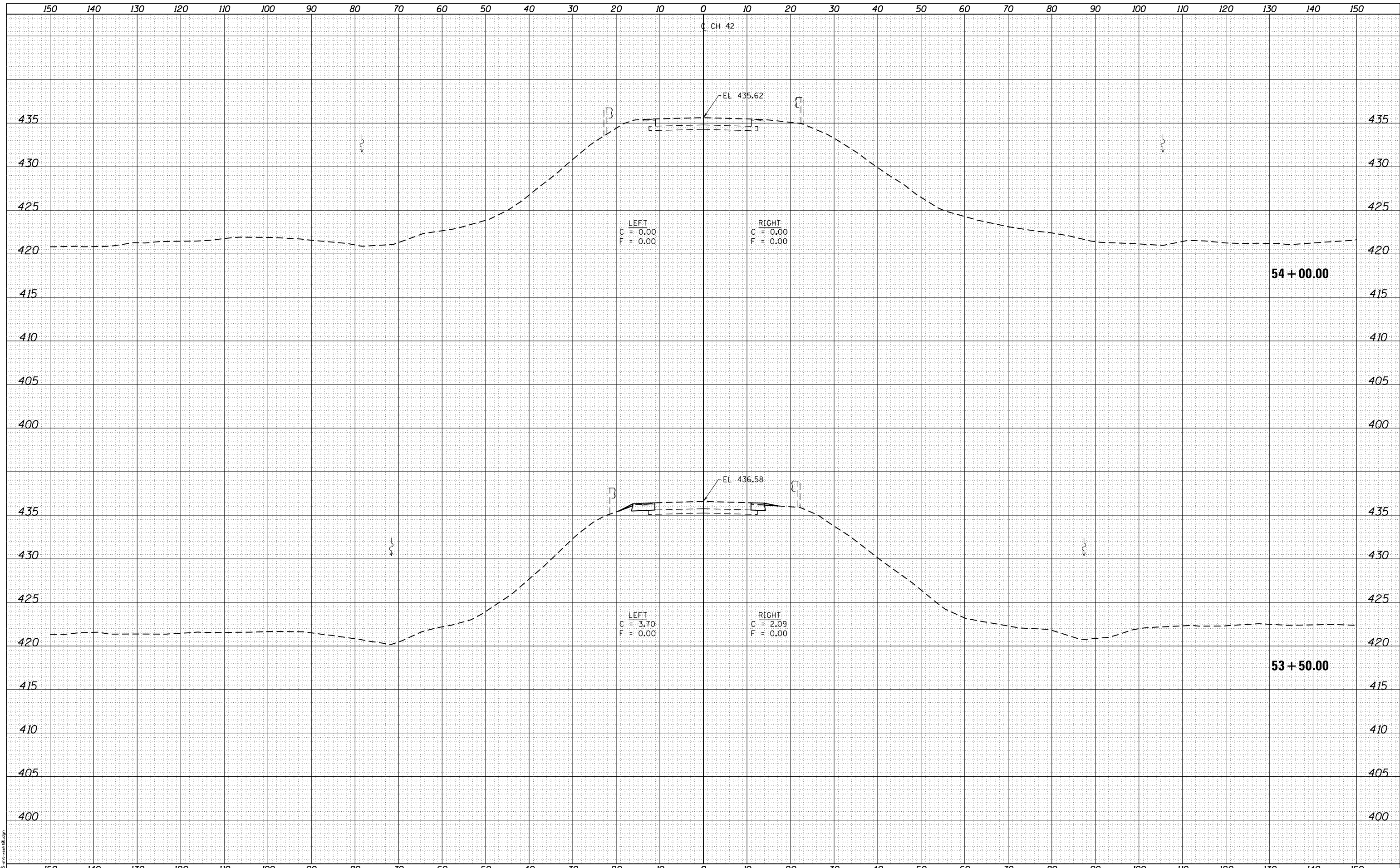
**FAS 824 (CH 42) CROSS SECTIONS**

SCALE: AS SHOWN SHEET NO. 8 OF 10 SHEETS STA. 52+50.00 TO STA. 53+00.00

F.A.I. RTÉ.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	(41-1)BR-1	JEFFERSON	92	87
			CONTRACT NO. 78455	
ILLINOIS FED. AID PROJECT				

BY	DATE
SURVEYED	
PLOTTED	
TEMPLATE	
AREAS	
CHECKED	
FINISHED	
NO.	

BY	DATE
SURVEYED	
PLOTTED	
TEMPLATE	
AREAS	
CHECKED	
ORIGINAL	
NO.	



USER NAME = kjk  
 ESCA PROJECT NO. 1295.02  
 SCALES: (HORIZ) 1"=10' (VERT) 1"=5'  
 PLOT DATE: 10/3/2018 7:37:26 AM

DESIGNED - ELH  
 DRAWN - KAH/KJK  
 CHECKED - ELH  
 DATE - 05/18

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**FAS 824 (CH 42) CROSS SECTIONS**

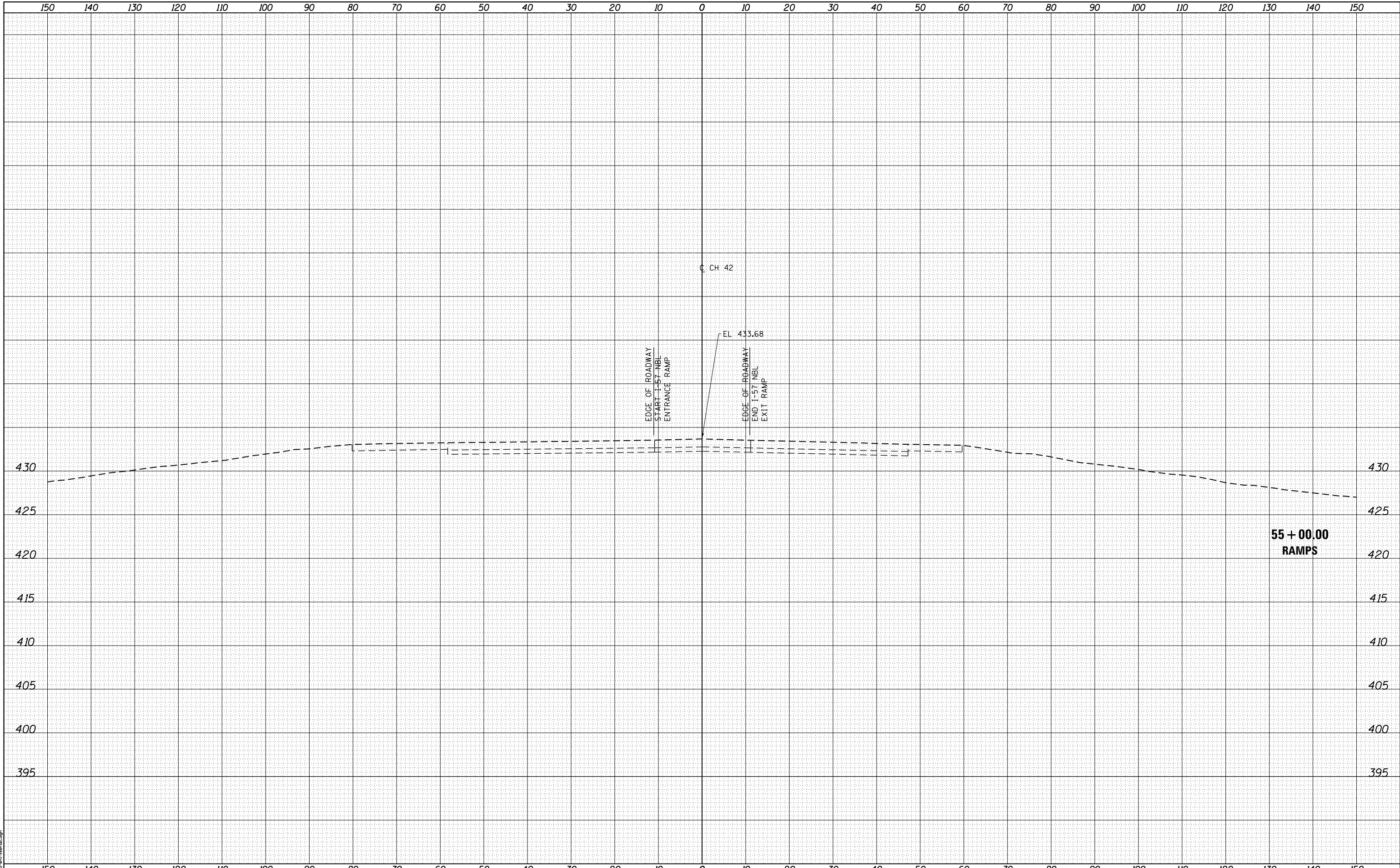
SCALE: AS SHOWN SHEET NO. 9 OF 10 SHEETS STA. 53+50.00 TO STA. 54+00.00

F.A.I. RTÉ.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	(41-1)BR-1	JEFFERSON	92	88
CONTRACT NO. 78455			ILLINOIS FED. AID PROJECT	



BY	DATE

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



PRINT DRIVER: RPL/DRIVER  
 PLOT MAKE: HP  
 PLOT FILE: 12955.dwg



USER NAME = kjk	DESIGNED - ELH	REVISED -
ESCA PROJECT NO. 1295.02	DRAWN - KAH/KJK	REVISED -
SCALE: (HORIZ) 1"=10' (VERT) 1"=5'	CHECKED - ELH	REVISED -
PLOT DATE: 10/3/2018 7:37:26 AM	DATE - 05/18	REVISED -

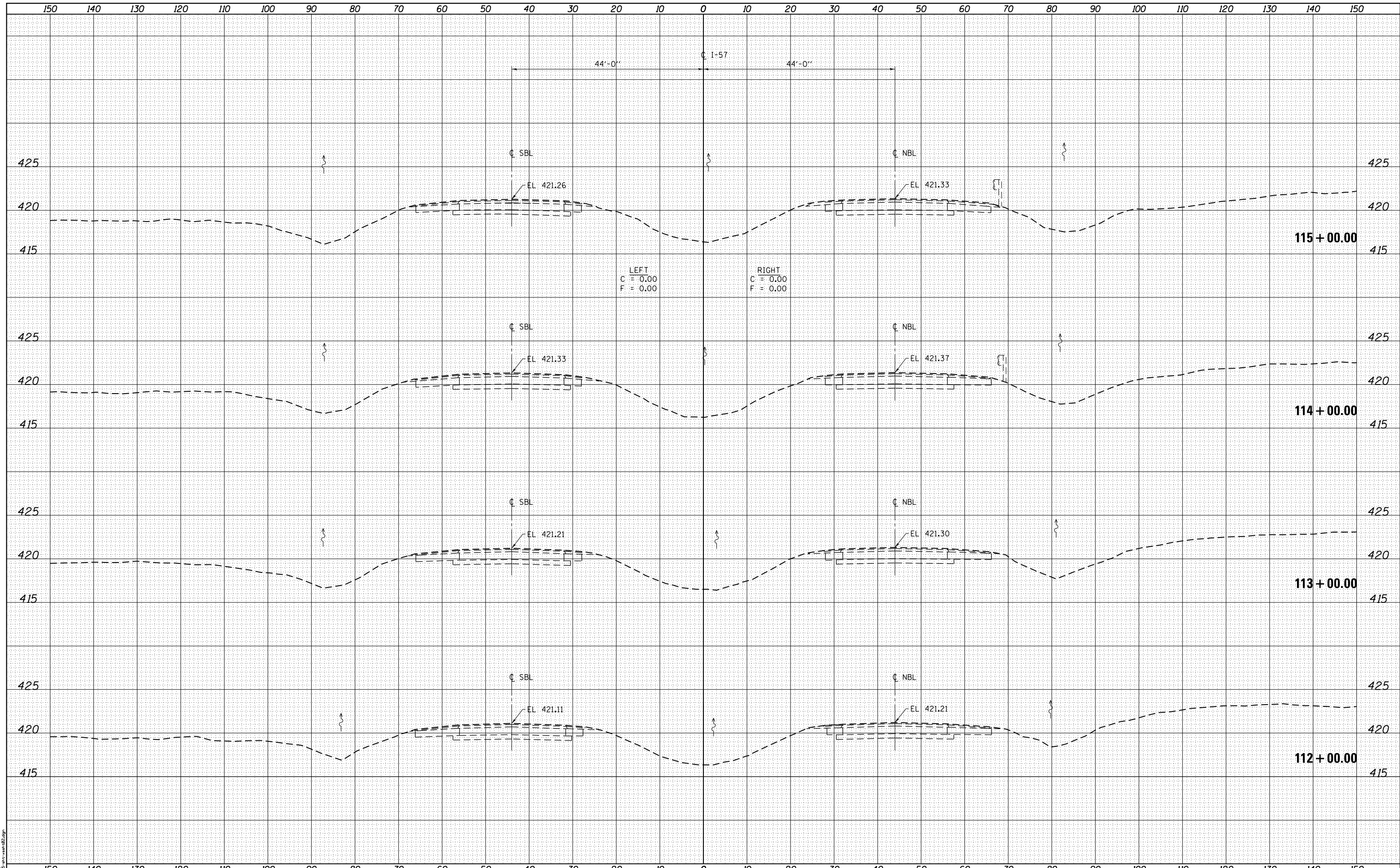
**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

<b>FAS 824 (CH 42) CROSS SECTIONS</b>	
SCALE: AS SHOWN	SHEET NO. 10 OF 10 SHEETS
STA. 55+00.00 TO STA. 55+00.00	

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	(41-1)BR-1	JEFFERSON	92	89
CONTRACT NO. 78455				
ILLINOIS FED. AID PROJECT				

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

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



PRINT DRIVER: P:\L\1295\1295.dwg  
 PLOT DATE: 10/3/2018 7:37:27 AM  
 FILE NAME: I-57cross.dwg



USER NAME = kjk	DESIGNED - ELH	REVISED -
ESCA PROJECT NO. 1295.02	DRAWN - KAH/KJK	REVISED -
SCALES: (HORIZ) 1"=10' (VERT) 1"=5'	CHECKED - ELH	REVISED -
PLOT DATE: 10/3/2018 7:37:27 AM	DATE - 06/18	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

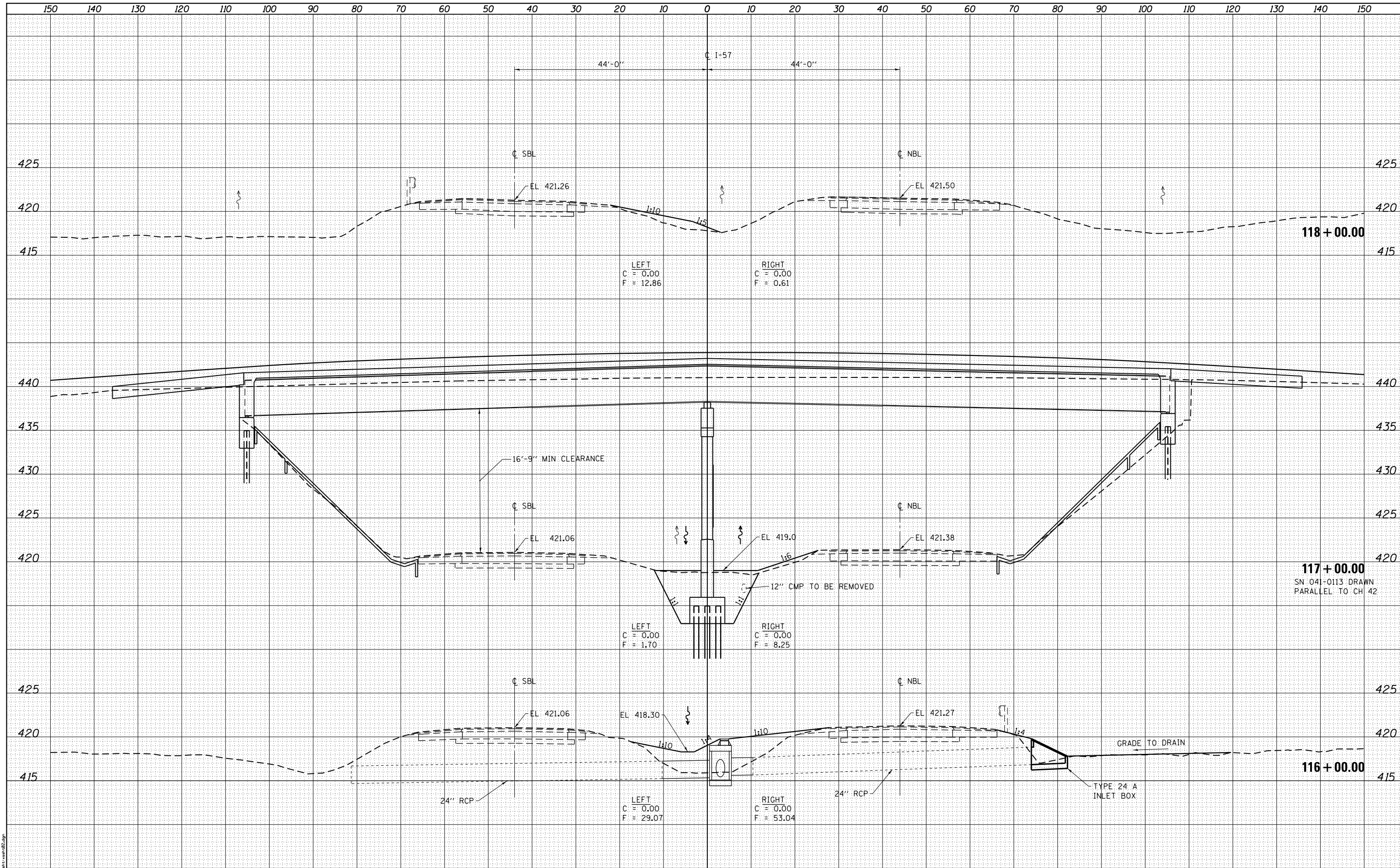
**I-57 CROSS SECTIONS**

SCALE: AS SHOWN    SHEET NO. 1 OF 3 SHEETS    STA. 112+00.00 TO STA. 115+00.00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	(41-1)BR-1	JEFFERSON	92	90
			CONTRACT NO. 78455	
ILLINOIS FED. AID PROJECT				

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

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



118 + 00.00

117 + 00.00

116 + 00.00

SN 041-0113 DRAWN  
PARALLEL TO CH 42



USER NAME = kjk  
 ESCA PROJECT NO. 1295.02  
 SCALES: (HORIZ) 1"=10' (VERT) 1"=5'  
 PLOT DATE: 10/3/2018 7:37:27 AM

DESIGNED - ELH  
 DRAWN - KAH/KJK  
 CHECKED - ELH  
 DATE - 09/18

REVISED -  
 REVISED -  
 REVISED -  
 REVISED -

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

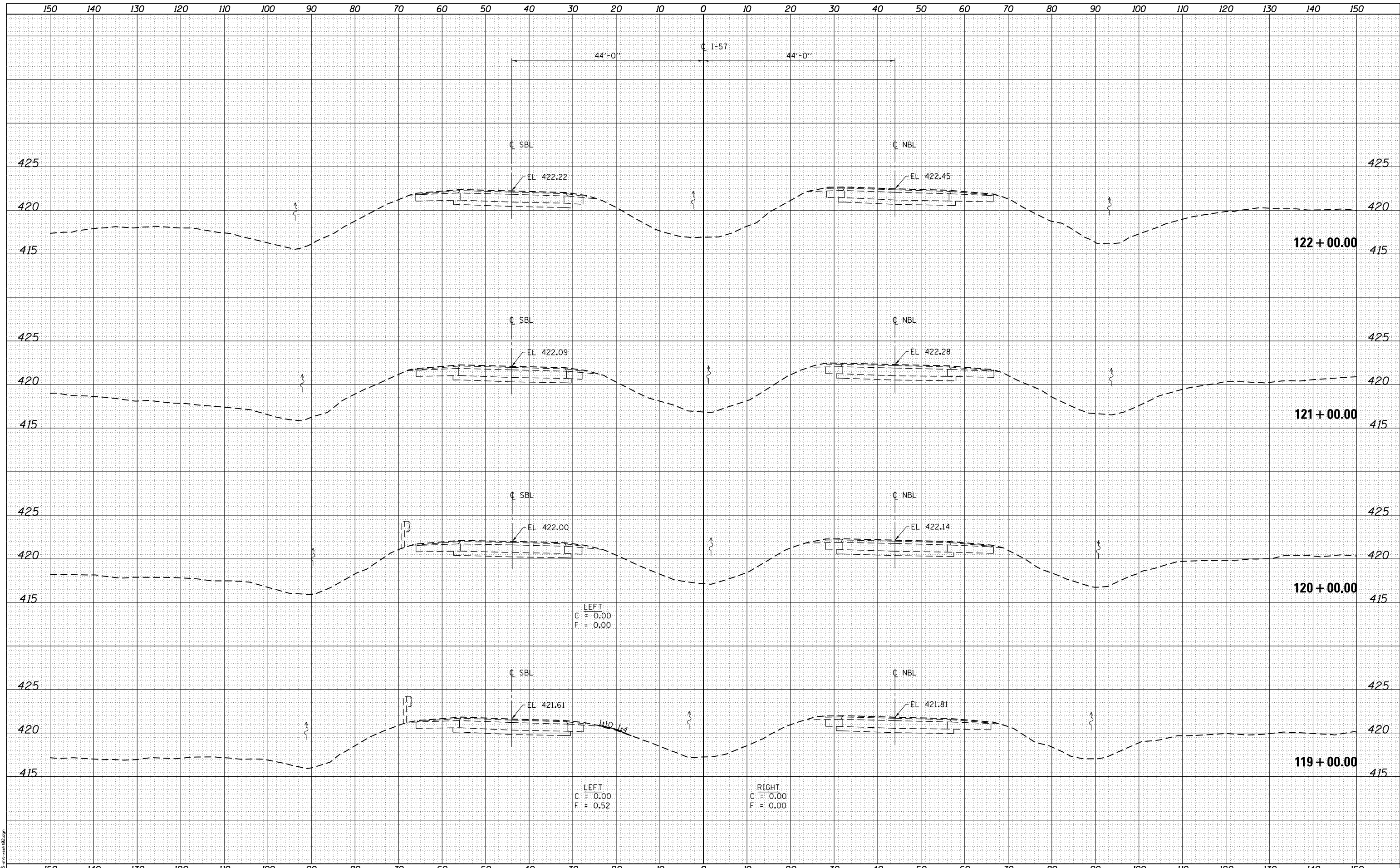
I-57 CROSS SECTIONS

SCALE: AS SHOWN SHEET NO. 2 OF 3 SHEETS STA. 116+00.00 TO STA. 118+00.00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	(41-1)BR-1	JEFFERSON	92	91
			CONTRACT NO. 78455	
ILLINOIS FED. AID PROJECT				

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



LEFT  
C = 0.00  
F = 0.00

LEFT  
C = 0.00  
F = 0.52

RIGHT  
C = 0.00  
F = 0.00



USER NAME = kjk	DESIGNED - ELH	REVISSED -
ESCA PROJECT NO. 1295.02	DRAWN - KAH/KJK	REVISSED -
SCALE: (HORIZ) 1"=10' (VERT) 1"=5'	CHECKED - ELH	REVISSED -
PLOT DATE: 10/3/2018 7:37:27 AM	DATE - 06/18	REVISSED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

I-57 CROSS SECTIONS

SCALE: AS SHOWN SHEET NO. 3 OF 3 SHEETS STA. 119+00.00 TO STA. 122+00.00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	(41-1)BR-1	JEFFERSON	92	92
CONTRACT NO. 78455			ILLINOIS FED. AID PROJECT	