

FOR INDEX OF SHEETS, SEE SHEET NO. 3

FOR SUMMARY OF QUANTITIES, SEE SHEET NO. 5-10

04-25-2025 LETTING ITEM 137

STATE OF ILLINOIS

DEPARTMENT OF TRANSPORTATION

PROPOSED HIGHWAY PLANS

FAP ROUTE 328 (US 45)

SECTION 105B-3

PROJECT BR-1AJR(270)

BRIDGE REPLACEMENT

OVER LOST CREEK

WHITE COUNTY

C-99-016-21

FAP RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
328	105B-3	WHITE	71	1
ILLINOIS			CONTRACT NO 78833	

D-99-009-21



TRAFFIC DATA

FUNCTIONAL CLASSIFICATION: MINOR ARTERIAL

ADT: 1890 (2024)
PV: 76.3%
TRUCKS: 23.7%
DESIGN SPEED: 55 MPH
POSTED SPEED: 55 MPH

TOWNSHIP

MILL SHOALS

DESIGN DESIGNATION : N/A

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

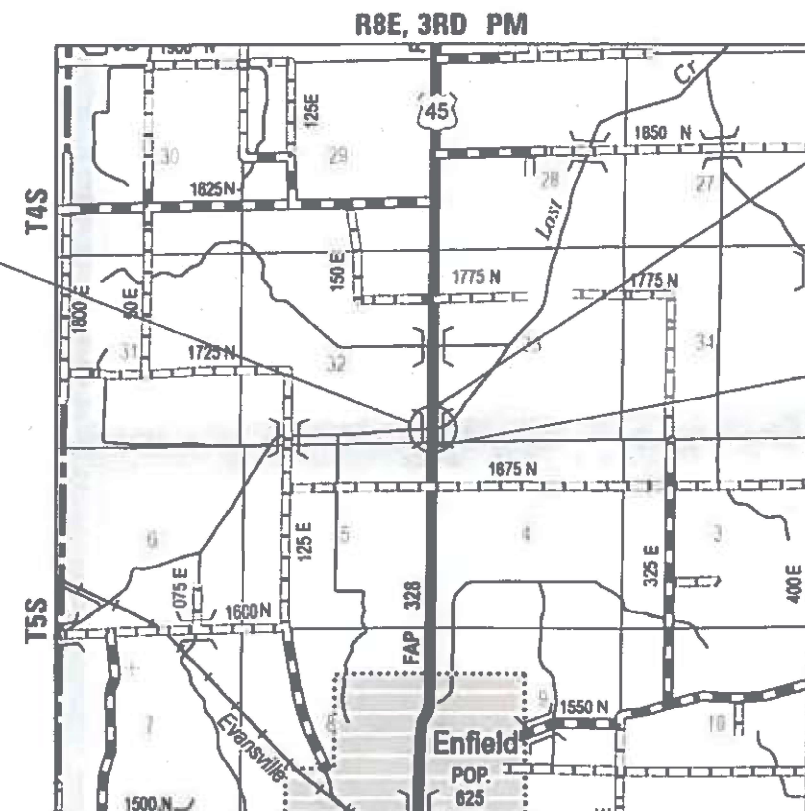


IL LICENSE NO 184000883-0006
JOB NO 1359.13

EXISTING STRUCTURE NO. 097-0023
STATION 954+52.00
PROPOSED STRUCTURE NO 097-0083
STATION 954+52.00
OVER LOST CREEK
SINGLE-SPAN STEEL BEAM BRIDGE
74'-0" BK TO BK ABUTMENTS
NO SKEW



EXPIRES 11/30/25
SIGNATURE
7-12-2024
DATE



LOCATION MAP

GROSS LENGTH = 300.00 FT. = 0.06 MILES
NET LENGTH = 300.00 FT. = 0.06 MILES

US 45
IMPROVEMENTS BEGIN STA 953+00.00

US 45
IMPROVEMENTS END STA 956+00.00

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUBMITTED July 23 20 24

Kirk H. Brown
REGION FIVE ENGINEER

March 21 20 25
Scott A. Etkin
ENGINEER OF DESIGN AND ENVIRONMENT

March 21 20 25
D. J. Barry
DIRECTOR OF HIGHWAYS PROJECT IMPLEMENTATION

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

PROJECT ENGINEER: EHREN KIRBY
PROJECT DESIGNER: ESCA CONSULTANTS, INC.

CONTRACT NO. 78833

PRINTED BY THE AUTHORITY
OF THE STATE OF ILLINOIS

MODEL: PLOT
FILE NAME: Y:\A0011329-13-78833C-ADD\plan\wayCAD\ Sheets\09-78833-Engineering\01.dgn



USER NAME	= IRC	DESIGNED	= IRC	REVISED	=
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PLOT SCALE	= 0.1667" / in.	CHECKED	= ELH	REVISED	=
PLOT DATE	= 1/9/2024	DATE	= 09/23	REVISED	=

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SIGNATURE BLOCK

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
328	105B-3	WHITE	71	2
CONTRACT NO. 78833				
ILLINOIS FED. AID PROJECT				

PREPARED BY:

Susan R.

DISTRICT STUDIES & PLANS ENGINEER

EXAMINED BY:

Nancy Lee

DISTRICT LAND ACQUISITION ENGINEER

EXAMINED BY:

C. M.

DISTRICT PROGRAM DEVELOPMENT ENGINEER

EXAMINED BY:

R. C.

DISTRICT OPERATIONS ENGINEER

EXAMINED BY:

Dagoberto Melendez

DISTRICT PROJECT IMPLEMENTATION ENGINEER

EXAMINED BY:

Dagoberto Melendez

DISTRICT CONSTRUCTION ENGINEER

EXAMINED BY:

Aam Hays

DISTRICT MATERIALS ENGINEER

MODEL: PLOT
FILE NAME: Y:\JDOT\11359-13_78833\CADD\Highway\CADD Sheets\J0978833.sht generated: 3/1/2024

LIST OF ILLINOIS DOT HIGHWAY STANDARDS

STANDARD NO.	DESCRIPTION
000001-08	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
420001-10	PAVEMENT JOINTS
420401-13	PAVEMENT CONNECTOR (PCC) FOR BRIDGE APPROACH SLAB
420701-03	PAVEMENT WELDED WIRE REINFORCEMENT
483001-06	PCC SHOULDER
515001-04	NAME PLATE FOR BRIDGES
601101-02	CONCRETE HEADWALL FOR PIPE UNDERDRAIN
630001-13	STEEL PLATE BEAM GUARDRAIL
630201-07	PCC / HMA STABILIZATION AT STEEL PLATE BEAM GUARDRAIL
630301-09	SHOULDER WIDENING FOR TYPE 1 (SPECIAL) GUARDRAIL TERMINALS
631031-18	TRAFFIC BARRIER TERMINAL, TYPE 6
666001-01	RIGHT OF WAY MARKERS
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
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
701321-19	LANE CLOSURE, 2L, 2W, BRIDGE REPAIR WITH BARRIER
701326-04	LANE CLOSURE, 2L, 2W, PAVEMENT WIDENING, FOR SPEEDS ≥ 45 MPH
701901-10	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
782006-01	GUARDRAIL AND BARRIER WALL REFLECTOR MOUNTING DETAILS
862001-01	UNINTERRUPTABLE POWER SUPPLY (UPS)

SHEET NO.	DESCRIPTION
ROADWAY PLANS	
1.	COVER SHEET
2.	SIGNATURE BLOCK
3.	INDEX OF SHEETS AND HIGHWAY STANDARDS
4.	GENERAL NOTES AND COMMITMENTS
5.-11.	SUMMARY OF QUANTITIES
12.-15.	US 45 TYPICAL SECTIONS
16.-17.	SCHEDULES OF QUANTITIES
18.-19.	ALIGNMENT, TIES & BENCHMARKS
20.-22.	US 45 PLAN AND PROFILE
23.	PRE-STAGE I & STAGE I TRAFFIC CONTROL
24.	STAGE II TRAFFIC CONTROL
25.	STAGE CONSTRUCTION SECTIONS
26.	EROSION CONTROL PLAN
27.	REMOVAL PLAN
28.	RIGHT-OF-WAY PLAN
29.	SEEDING AND MULCHING & STEP CONSTRUCTION ON EXISTING FILL
30.	PAVEMENT TRANSITION DETAILS
31.	PAVEMENT CONNECTOR DETAILS
32.	ENTRANCE DETAILS
33.	BUTT JOINT DETAILS
34.	ROUGH GROOVED SURFACE SIGN & UNEVEN LANES SIGN DETAILS
STRUCTURE PLANS – SN 097-0083	
35.	GENERAL PLAN & ELEVATION
36.	GENERAL DATA
37.	STAGE CONSTRUCTION DETAILS
38.	TEMPORARY SOIL RETENTION SYSTEM
39.	TEMPORARY CONCRETE BARRIER
40.	TOP OF SLAB ELEVATIONS
41.	TOP OF NORTH APPROACH SLAB ELEVATIONS
42.	TOP OF SOUTH APPROACH SLAB ELEVATIONS
43.	SUPERSTRUCTURE
44.	SUPERSTRUCTURE DETAILS
45.	DIAPHRAGM DETAILS
46.-47.	BRIDGE APPROACH SLAB DETAILS
48.	STEEL FRAMING PLAN AND DETAILS
49.-50.	FRAMING DETAILS
51.	BEARING DETAILS
52.	NORTH ABUTMENT
53.	SOUTH ABUTMENT
54.	HP PILE DETAILS
55.	BAR SPLICER ASSEMBLY DETAILS
56.-58.	BORING LOGS

INDEX OF SHEETS

SHEET NO.	EXISTING STRUCTURE PLANS
59.-65.	SN 097-0023 EXISTING STRUCTURE PLANS
CROSS SECTIONS	
66.-71.	US 45 CROSS SECTIONS

REV - MS



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ESCA PROJECT NO. 1359.13	DRAWN - IRC	REVISED -
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

INDEX OF SHEETS AND HIGHWAY STANDARDS

SCALE: NONE	SHEET NO. 1 OF 1 SHEETS	STA. TO STA.
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F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
328	105B-3	WHITE	71	3
CONTRACT NO. 78833				
ILLINOIS FED. AID PROJECT				

GENERAL NOTES

1.

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
- RIPRAP

1.50 TONS/CU YD
2.

THE QUANTITY OF SHORT TERM PAVEMENT MARKING SHOWN IN THE PLANS IS BASED ON ONE APPLICATION EACH FOR THE HMA SURFACE REMOVAL AND SURFACE COURSE.
3.

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.

COMMITMENTS

1.

NONE.
4.

EDGE LINE PAVEMENT MARKING SHALL BE REMOVED IF A 10 FT LANE WIDTH CANNOT BE MAINTAINED. TEMPORARY EDGE LINES SHALL BE INSTALLED WHEN THE EDGE LINES ARE REMOVED.
5.

INCIDENTAL HOT-MIX ASPHALT SURFACING SHALL BE PAVED IN A SEPARATE OPERATION FROM THE MAINLINE PAVEMENT.
6.

REMOVAL OF ABANDONED UTILITIES SHALL BE INCLUDED IN THE COST OF EARTH EXCAVATION.

HMA MIXTURES REQUIREMENTS

LOCATIONS	HOT-MIX ASPHALT SHOULDERS TOP LIFT	HOT-MIX ASPHALT SHOULDERS LOWER LIFTS	HOT-MIX ASPHALT SURFACE COURSE & INCIDENTAL HMA
MIXTURE USE(S):	HOT-MIX ASPHALT SURFACE COURSE, MIX C, N70	HOT-MIX ASPHALT BINDER COURSE, N70	HOT-MIX ASPHALT SURFACE COURSE, MIX C, N70
PG:	PG64-22	PG64-22	PG64-22
DESIGN AIR VOIDS:	4.0%, 70 GYRATION DESIGN	4.0%, 70 GYRATION DESIGN	4.0%, 70 GYRATION DESIGN
MIX COMPOSITION: (GRADATION MIXTURE)	IL-9.5mm	IL-19.0mm	IL-9.5mm
FRICTION AGGREGATE:	SURFACE C	N/A	SURFACE C
MIXTURE WEIGHT:	112 LBS/SQ YD/IN	112 LBS/SQ YD/IN	112 LBS/SQ YD/IN
QUALITY MANAGEMENT PROGRAM:	QC/QA	QC/QA	QC/QA
SUBLOT SIZE:	N/A	N/A	N/A
MATERIAL TRANSFER DEVICE	NO	NO	NO

PAVING LIFTS

RESURFACING VARIES 1½" TO 2";
1½" TO 2" HOT-MIX ASPHALT SURFACE COURSE, MIX C, N70, 9.5mm

SHOULDER FULL DEPTH;
1¾" HOT-MIX ASPHALT SURFACE COURSE, MIX C, N70, 9.5mm
2¼" HOT-MIX ASPHALT BINDER COURSE, N70, 19.0mm
4" HOT-MIX ASPHALT BINDER COURSE, N70, 19.0mm

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SUMMARY OF QUANTITIES

SUMMARY OF QUANTITIES				80% FEDERAL 20% STATE	80% FEDERAL 20% STATE
				ROADWAY	STRUCTURE
				CONSTRUCTION CODE	
				0010	0010
CODE NO.	ITEM	UNIT	TOTAL QUANTITY	ROADWAY	S.N. 097-0083
20200100	EARTH EXCAVATION	CU YD	475	475	
20300100	CHANNEL EXCAVATION	CU YD	140	140	
20700220	POROUS GRANULAR EMBANKMENT	CU YD	50	50	
25000200	SEEDING, CLASS 2	ACRE	0.50	0.50	
25000350	SEEDING, CLASS 7	ACRE	0.50	0.50	
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	1.0	1.0	
25100115	MULCH, METHOD 2	ACRE	1.0	1.0	
25100630	EROSION CONTROL BLANKET	SQ YD	2148	2148	
28000250	TEMPORARY EROSION CONTROL SEEDING	POUND	100	100	
28000305	TEMPORARY DITCH CHECKS	FOOT	63	63	
28000400	PERIMETER EROSION BARRIER	FOOT	605	605	

REV - MS

MODEL: PLOT01
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PLOT DATE = 8/16/2024	DATE - 07/24	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES

SCALE: NONE SHEET NO. 1 OF 7 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
328	105B-3	WHITE	71	5
CONTRACT NO. 78833				
ILLINOIS FED. AID PROJECT				

SUMMARY OF QUANTITIES

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	80% FEDERAL 20% STATE	80% FEDERAL 20% STATE
				ROADWAY	STRUCTURE
				CONSTRUCTION CODE	
				0010 ROADWAY	0010 S.N. 097-0083
28000500	INLET AND PIPE PROTECTION	EACH	1	1	
28100109	STONE RIPRAP, CLASS A5	SQ YD	592		592
28200200	FILTER FABRIC	SQ YD	592		592
35102000	AGGREGATE BASE COURSE, TYPE B 8"	SQ YD	45	45	
35102200	AGGREGATE BASE COURSE, TYPE B 10"	SQ YD	205	205	
40600290	BITUMINOUS MATERIALS (TACK COAT)	POUND	785	785	
40600982	HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT	SQ YD	370	370	
40600990	TEMPORARY RAMP	SQ YD	58	58	
40604052	HOT-MIX ASPHALT SURFACE COURSE, IL-9.5, MIX "C", N70	TON	45	45	
40800050	INCIDENTAL HOT-MIX ASPHALT SURFACING	TON	5	5	
42000060	WELDED WIRE REINFORCEMENT	SQ YD	110	110	
42000080	PAVEMENT CONNECTOR (PCC) FOR BRIDGE APPROACH SLAB	SQ YD	110	110	
42001300	PROTECTIVE COAT	SQ YD	437	437	
44000100	PAVEMENT REMOVAL	SQ YD	335	335	
44004250	PAVED SHOULDER REMOVAL	SQ YD	30	30	

REV - MS

MODEL: PLOT02
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PLOT DATE = 8/16/2024	DATE - 07/24	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES

SCALE: NONE SHEET NO. 2 OF 7 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
328	105B-3	WHITE	71	6
CONTRACT NO. 78833				
ILLINOIS FED. AID PROJECT				

SUMMARY OF QUANTITIES

SUMMARY OF QUANTITIES				80% FEDERAL 20% STATE	80% FEDERAL 20% STATE
				ROADWAY	STRUCTURE
				CONSTRUCTION CODE	
				0010 ROADWAY	0010 S.N. 097-0083
CODE NO.	ITEM	UNIT	TOTAL QUANTITY		
44213204	TIE BARS 3/4"	EACH	8	8	
48203100	HOT-MIX ASPHALT SHOULDERS	TON	68	68	
48300500	PORTLAND CEMENT CONCRETE SHOULDERS 10"	SQ YD	327	327	
50100100	REMOVAL OF EXISTING STRUCTURES	EACH	1		1
50200100	STRUCTURE EXCAVATION	CU YD	250		250
50300225	CONCRETE STRUCTURES	CU YD	65		65
50300255	CONCRETE SUPERSTRUCTURE	CU YD	120.8		120.8
50300260	BRIDGE DECK GROOVING	SQ YD	540		540
50300300	PROTECTIVE COAT	SQ YD	570		570
50301350	CONCRETE SUPERSTRUCTURE (APPROACH SLAB)	CU YD	95		95
50500105	FURNISHING AND ERECTING STRUCTURAL STEEL	L SUM	1		1
50500505	STUD SHEAR CONNECTORS	EACH	1314		1314
50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	69080		69080
50800515	BAR SPLICERS	EACH	534		534

REV - MS

MODEL: PLOT03
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES

SCALE: NONE SHEET NO. 3 OF 7 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
328	105B-3	WHITE	71	7
CONTRACT NO. 78833				
ILLINOIS FED. AID PROJECT				

SUMMARY OF QUANTITIES

SUMMARY OF QUANTITIES				80% FEDERAL 20% STATE	80% FEDERAL 20% STATE
				ROADWAY	STRUCTURE
				CONSTRUCTION CODE	
				0010 ROADWAY	0010 S.N. 097-0083
CODE NO.	ITEM	UNIT	TOTAL QUANTITY		
51201610	FURNISHING STEEL PILES HP12X63	FOOT	555		555
51202305	DRIVING PILES	FOOT	555		555
51203610	TEST PILE STEEL HP12X63	EACH	2		2
51204650	PILE SHOES	EACH	12		12
51500100	NAME PLATES	EACH	1		1
52100520	ANCHOR BOLTS, 1"	EACH	24		24
52200020	TEMPORARY SOIL RETENTION SYSTEM	SQ FT	338		338
54010303	PRECAST CONCRETE BOX CULVERTS 3' X 3'	FOOT	36	36	
58600101	GRANULAR BACKFILL FOR STRUCTURES	CU YD	115		115
59100100	GEOCOMPOSITE WALL DRAIN	SQ YD	62		62
60100060	CONCRETE HEADWALLS FOR PIPE DRAINS	EACH	4	4	
60146304	PIPE UNDERDRAINS FOR STRUCTURES 4"	FOOT	154		154
* 63000001	STEEL PLATE BEAM GUARDRAIL, TYPE A, 6 FOOT POSTS	FOOT	225	225	
* 63100085	TRAFFIC BARRIER TERMINAL, TYPE 6	EACH	4	4	

* SPECIALTY ITEM

REV - MS

MODEL: PLOT04
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES

SCALE: NONE SHEET NO. 4 OF 7 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
328	105B-3	WHITE	71	8
CONTRACT NO. 78833				
ILLINOIS FED. AID PROJECT				

SUMMARY OF QUANTITIES

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	80% FEDERAL 20% STATE	80% FEDERAL 20% STATE
				ROADWAY	STRUCTURE
				CONSTRUCTION CODE	
				0010 ROADWAY	0010 S.N. 097-0083
* 63100167	TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT	EACH	4	4	
63200310	GUARDRAIL REMOVAL	FOOT	456	456	
66600105	FURNISHING AND ERECTING RIGHT OF WAY MARKERS	EACH	8	8	
67000400	ENGINEER'S FIELD OFFICE, TYPE A	CAL MO	8	8	
67100100	MOBILIZATION	L SUM	1	1	
70100405	TRAFFIC CONTROL AND PROTECTION, STANDARD 701321	EACH	1	1	
70100450	TRAFFIC CONTROL AND PROTECTION, STANDARD 701201	L SUM	1	1	
70100500	TRAFFIC CONTROL AND PROTECTION, STANDARD 701326	L SUM	1	1	
70103815	TRAFFIC CONTROL SURVEILLANCE	CAL DA	6	6	
70106500	TEMPORARY BRIDGE TRAFFIC SIGNALS	EACH	1	1	
70106700	TEMPORARY RUMBLE STRIPS	EACH	6	6	
70107025	CHANGEABLE MESSAGE SIGN	CAL DA	28	28	
70300100	SHORT TERM PAVEMENT MARKING	FOOT	92	92	
70300150	SHORT TERM PAVEMENT MARKING REMOVAL	SQ FT	32	32	

* SPECIALTY ITEM

REV - MS

MODEL PLOTS:
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES

SCALE: NONE SHEET NO. 5 OF 7 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
328	105B-3	WHITE	71	9
CONTRACT NO. 78833				
ILLINOIS FED. AID PROJECT				

SUMMARY OF QUANTITIES

SUMMARY OF QUANTITIES				80% FEDERAL 20% STATE	80% FEDERAL 20% STATE
				ROADWAY	STRUCTURE
				CONSTRUCTION CODE	
				0010 ROADWAY	0010 S.N. 097-0083
CODE NO.	ITEM	UNIT	TOTAL QUANTITY		
70300221	TEMPORARY PAVEMENT MARKING - LINE 4"- PAINT	FOOT	920	920	
70400100	TEMPORARY CONCRETE BARRIER	FOOT	387.5	387.5	
70400125	PINNING TEMPORARY CONCRETE BARRIER	EACH	59	59	
70400200	RELOCATE TEMPORARY CONCRETE BARRIER	FOOT	387.5	387.5	
70600260	IMPACT ATTENUATORS, TEMPORARY (FULLY REDIRECTIVE, NARROW), TEST LEVEL 3	EACH	2	2	
70600332	IMPACT ATTENUATORS, RELOCATE (FULLY REDIRECTIVE, NARROW), TEST LEVEL 3	EACH	2	2	
* 72501000	TERMINAL MARKER - DIRECT APPLIED	EACH	4	4	
* 78009004	MODIFIED URETHANE PAVEMENT MARKING - LINE 4"	FOOT	920	920	
* 78200005	GUARDRAIL REFLECTORS, TYPE A	EACH	10	10	
* 78200010	BARRIER WALL REFLECTORS, TYPE B	EACH	8	8	
78300200	RAISED REFLECTIVE PAVEMENT MARKER REMOVAL	EACH	2	2	
78300201	PAVEMENT MARKING REMOVAL - GRINDING	SQ FT	532	532	
* 86200300	UNINTERRUPTABLE POWER SUPPLY, EXTENDED	EACH	1	1	
X1200050	BOX CULVERT REMOVAL	FOOT	20	20	

* SPECIALTY ITEM

REV - MS

MODEL: PLOT06
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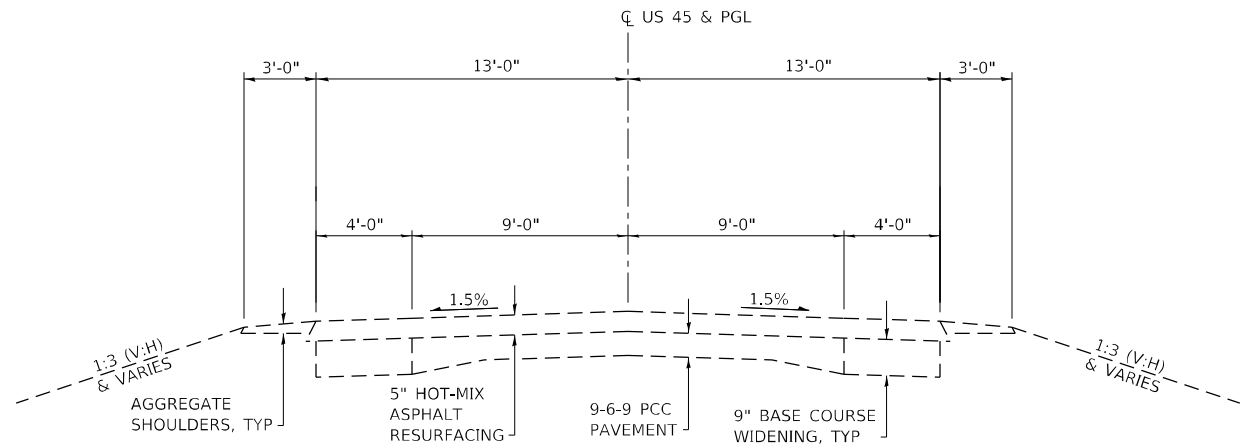
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PLOT DATE = 8/16/2024	DATE - 07/24	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

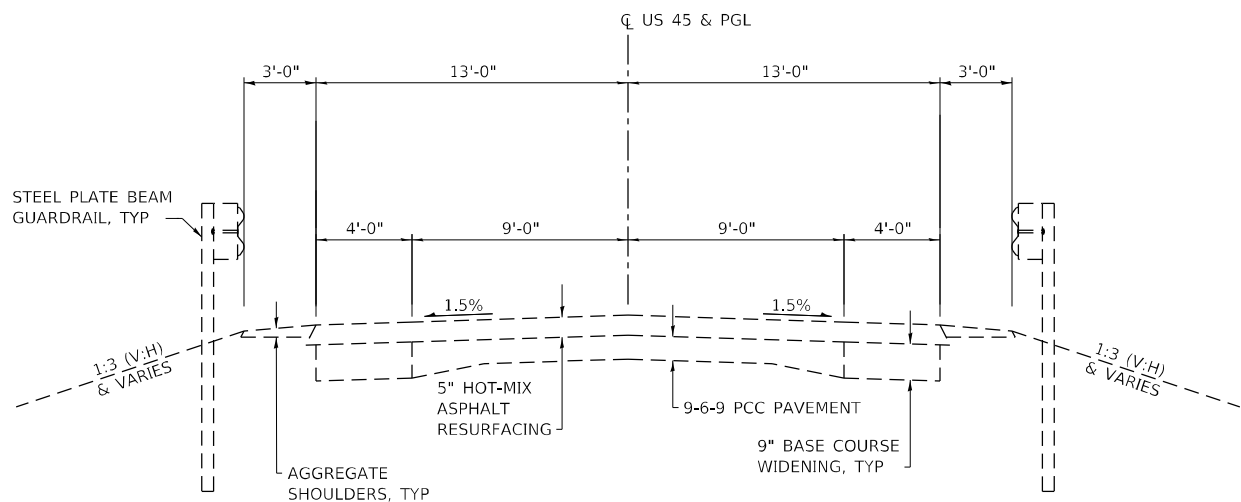
SUMMARY OF QUANTITIES

SCALE: NONE SHEET NO. 6 OF 7 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
328	105B-3	WHITE	71	10
CONTRACT NO. 78833				
ILLINOIS FED. AID PROJECT				



EXISTING TYPICAL SECTION
STA 946 + 00.00 TO STA 951 + 43.46
STA 955 + 12.95 TO STA 964 + 00.00



EXISTING TYPICAL SECTION
STA 951 + 43.46 TO STA 954 + 06.00
STA 954 + 98.00 TO STA 955 + 12.95

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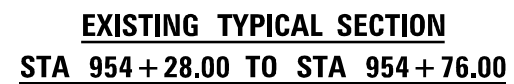
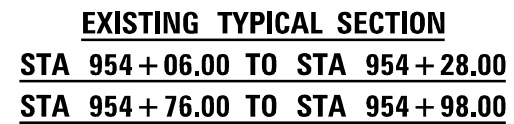
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ESCA PROJECT NO. 1359.13	DRAWN - ATN	REVISED -
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PLOT DATE = 8/9/2024	DATE - 10/23	REVISED -

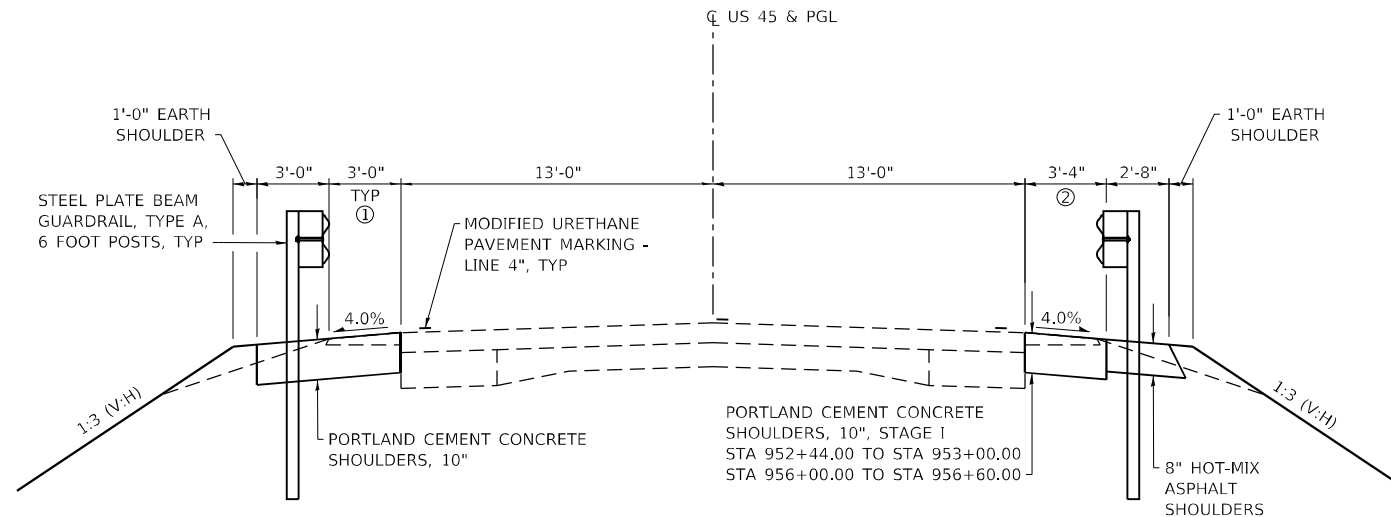
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

US 45 TYPICAL SECTIONS

SCALE: AS SHOWN SHEET NO. 1 OF 4 SHEETS STA. TO STA.

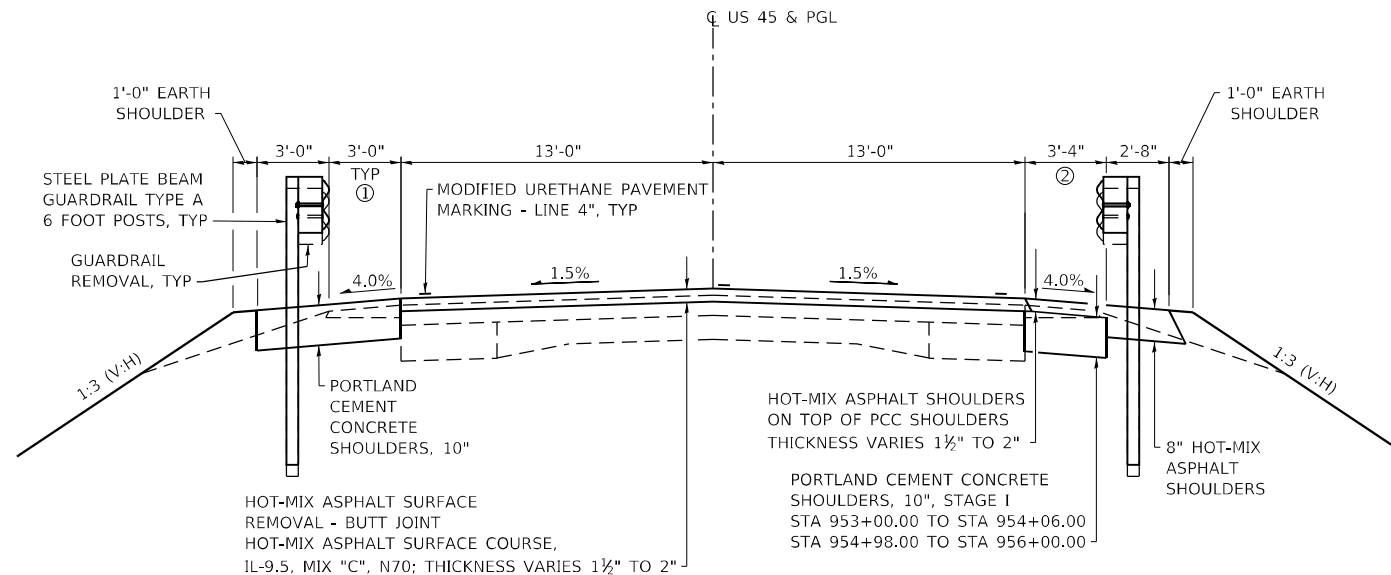
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
328	105B-3	WHITE	71	12
CONTRACT NO. 78833				
ILLINOIS FED. AID PROJECT				





PROPOSED TYPICAL SECTION
STA 952+06.20 TO STA 953+00.00
STA 956+00.00 TO STA 956+97.80

- ① DIMENSION TO FACE OF GUARDRAIL
② DIMENSION TO EDGE OF PORTLAND CEMENT CONCRETE SHOULDERS, 10"



PROPOSED TYPICAL SECTION
STA 953+00.00 TO STA 953+70.85
STA 955+33.15 TO STA 956+00.00

MODEL: PLOT
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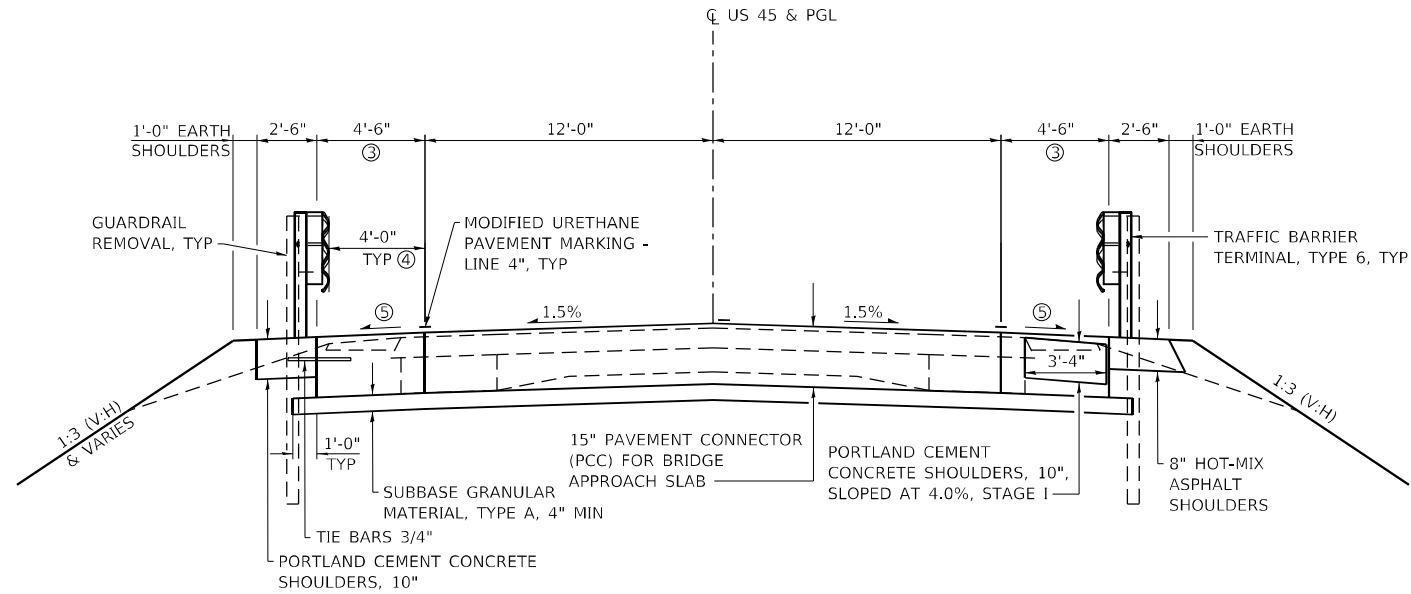
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PLOT SCALE = 0.1667' / in.	CHECKED - ELH	REVISED -
PLOT DATE = 8/9/2024	DATE - 08/24	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

US 45 TYPICAL SECTIONS

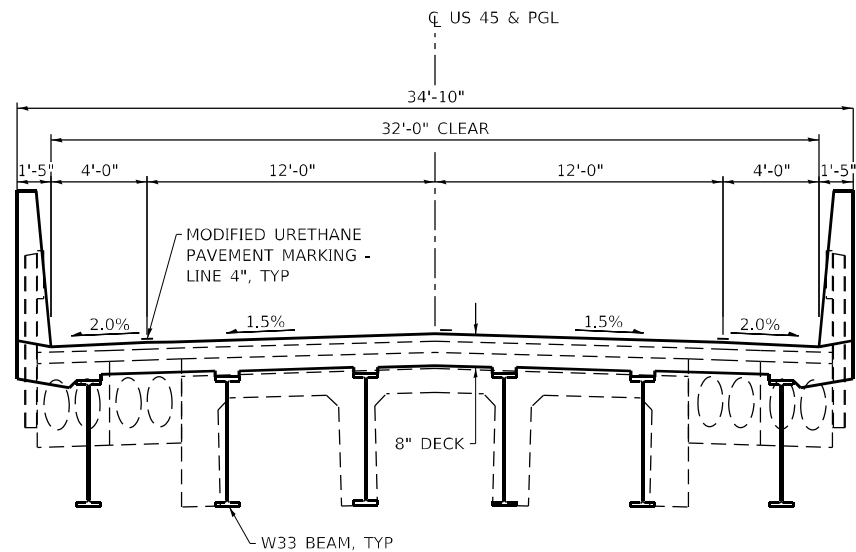
SCALE: AS SHOWN SHEET NO. 3 OF 4 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
328	105B-3	WHITE	71	14
CONTRACT NO. 78833				
ILLINOIS FED. AID PROJECT				



- ③ DIMENSION TO EDGE OF PAVEMENT
- ④ DIMENSION TO FACE OF GUARDRAIL
- ⑤ TRANSITION FROM 2.0% AT BRIDGE APPROACH SLAB TO 4.0% AT END OF PAVEMENT CONNECTOR

PROPOSED TYPICAL SECTION
STA 953+70.85 TO STA 953+85.85
STA 955+18.15 TO STA 955+33.15



PROPOSED TYPICAL SECTION
STA 954+16.00 TO STA 954+88.00

MODEL: PLOT
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USER NAME = IRC	DESIGNED - ATN	REVISED -
ESCA PROJECT NO. 1359.13	DRAWN - ATN	REVISED -
PLOT SCALE = 0.1667' / in.	CHECKED - ELH	REVISED -
PLOT DATE = 8/9/2024	DATE - 08/24	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

US 45 TYPICAL SECTIONS

SCALE: AS SHOWN SHEET NO. 4 OF 4 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
328	105B-3	WHITE	71	15
CONTRACT NO. 78833				
ILLINOIS FED. AID PROJECT				

MODEL: PLOT01
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EARTHWORK SCHEDULE									
LOCATION			EARTH EXCAVATION	AVERAGE SHRINKAGE FACTOR	EARTH EXCAVATION (ADJUSTED)	EMBANKMENT	EARTHWORK BALANCE		REMARKS
							EXCAVATION REQUIRED TO COMPLETE	EXCESS EXCAVATION	
STA	TO	STA	CU YD	%	CU YD	CU YD	CU YD	CU YD	
957+21.0 LT		958+12.0 LT	70	25	53	35		18	US 45 PRE-STAGE I
956+63.0 RT		957+00.0 RT	10	25	7	20	13		US 45 PRE-STAGE I
952+49.0 LT		954+05.0 LT	30	25	23	30	7		US 45 STAGE I
954+99.0 LT		957+21.0 LT	300	25	225	25		200	US 45 STAGE I
952+06.2 RT		954+05.0 RT	30	25	23	45	22		US 45 STAGE II
954+99.0 RT		956+63.0 RT	35	25	26	25		1	US 45 STAGE II
TOTALS			475						

SEEDING SCHEDULE							
LOCATION	SEEDING, CLASS 2	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
STA 951+42.0 TO 954+05.0 RT	0.08	0.08	7.2	7.2	7.2	0.16	0.16
STA 954+99.0 TO 955+23.0 RT	0.02	0.02	1.8	1.8	1.8	0.04	0.04
STA 955+23.0 TO 956+73.0 RT	0.06	0.06	5.4	5.4	5.4	0.12	0.12
STA 956+97.0 TO 957+30.0 RT	0.02	0.02	1.8	1.8	1.8	0.04	0.04
STA 952+42.0 TO 952+70.7 LT	0.01	0.01	0.9	0.9	0.9	0.02	0.02
STA 952+70.7 TO 954+05.0 LT	0.04	0.04	3.6	3.6	3.6	0.08	0.08
STA 954+99.0 TO 955+50.0 LT	0.05	0.05	4.5	4.5	4.5	0.10	0.10
STA 955+50.0 TO 957+36.0 LT	0.15	0.15	13.5	13.5	13.5	0.30	0.30
STA 957+60.0 TO 958+25.0 LT	0.07	0.07	6.3	6.3	6.3	0.14	0.14
TOTALS	0.50	0.50	45	45	45	1.0	1.00

EROSION CONTROL SCHEDULE					
LOCATION	EROSION CONTROL BLANKET	TEMPORARY EROSION CONTROL SEEDING	TEMPORARY DITCH CHECKS	INLET AND PIPE PROTECTION	PERIMETER EROSION BARRIER
	SQ YD	POUND	FOOT	EACH	FOOT
STA 951+42.0 TO 954+05.0 RT	385	16			267
STA 952+42.0 TO 952+70.7 LT	35	2			
STA 952+42.0 TO 954+05.0 LT					164
STA 952+70.7 TO 954+05.0 LT	187	8			
STA 954+88 LT			11		
STA 954+99.0 TO 955+23.0 RT	54	4			
STA 954+99.0 TO 955+50.0 LT	174	10			
STA 954+99.0 TO 956+73.0 RT					174
STA 955+01 LT			10		
STA 955+23.0 TO 956+73.0 RT	260	12			
STA 955+29 LT			12		
STA 955+50.0 TO 957+36.0 LT	685	30			
STA 956+95 LT			14		
STA 956+97.0 TO 957+30.0 RT	102	4			
STA 957+60.0 TO 958+25.0 LT	266	14			
STA 957+72 LT				1	
STA 958+05 LT			16		
TOTALS	2148	100	63	1	605

PRECAST BOX CULVERT SCHEDULE (ASTM C 1577)							
STATION	SIZE (SPAN X HEIGHT)	LENGTH	SKEW	DESIGN FILL		PGE BACKFILL REQUIRED	PRECAST BOX CULVERT END SECTION
	FOOT			MINIMUM	MAXIMUM		
		FOOT		FOOT	FOOT	CU YD	EACH
STA 957+48 LT FE	3 X 3	36	NONE	0.67	1.33	50	2

PAVEMENT MARKING SCHEDULE									
LOCATION	DESCRIPTION	MODIFIED URETHANE PAVEMENT MARKING - LINE 4"		SHORT TERM PAVEMENT MARKING		SHORT TERM PAVEMENT MARKING REMOVAL	TEMPORARY PAVEMENT MARKING - LINE 4" - PAINT	PAVEMENT MARKING REMOVAL - GRINDING	RAISED REFLECTIVE PAVEMENT MARKER REMOVAL
		FOOT		FOOT		SQ FT	FOOT		SQ FT
		WHITE	YELLOW	WHITE	YELLOW		WHITE	YELLOW	EACH
STAGE I									
US 45 STA 950+73.00 TO 952+58.40	CENTERLINE								17
US 45 STA 952+68.00 TO 956+36.00 RT	EDGE LINE								123
US 45 STA 953+00.00 TO 953+65.00	CENTERLINE								1
US 45 STA 955+38.00 TO 956+00.00	CENTERLINE								1
US 45 STA 956+45.60 TO 958+32.00	CENTERLINE								17
STAGE II									
US 45 STA 952+71.00 TO 953+70.85 LT	EDGE LINE								34
US 45 STA 955+33.15 TO 956+33.00 LT	EDGE LINE								34
POST STAGE II									
US 45 STA 950+73.00 TO 958+32.00	CENTERLINE		190		76	26		190	63
US 45 STA 952+68.00 TO 956+36.00 RT	EDGE LINE	368		8		3	368		123
US 45 STA 952+71.00 TO 956+33.00 LT	EDGE LINE	362		8		3	362		121
	SUBTOTALS	730	190	16	76		730	190	
	TOTALS	920		92		32	920		532
									2



USER NAME = IRC	DESIGNED - IRC	REVISED -
ESCA PROJECT NO. 1359.13	DRAWN - IRC	REVISED -
PLOT SCALE = 0.1667 ' / in.	CHECKED - ELH	REVISED -
PLOT DATE = 8/9/2024	DATE - 08/24	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SCHEDULES OF QUANTITIES

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
328	105B-3	WHITE	71	16
CONTRACT NO. 78833				
ILLINOIS FED. AID PROJECT				

MODEL: Default
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SHOULDER SCHEDULE						
LOCATION	PORTLAND CEMENT CONCRETE SHOULDERS 10"	PROTECTIVE COAT	TIE BARS 3/4"	PAVED SHOULDER REMOVAL	HOT-MIX ASPHALT SHOULDERS	BITUMINOUS MATERIALS (TACK COAT)
	SQ YD	SQ YD	EACH	SQ YD	TON	POUND
PRE-STAGE I						
STA 952+44.00 TO 954+06.80 RT	60	60				
STA 954+98.80 TO 956+60.00 RT	60	60				
STAGE I						
STA 952+49.00 TO 954+01.00 LT	86	86				
STA 953+70.85 TO 953+85.85 LT			4			
STA 955+03.00 TO 956+97.80 LT	121	121				
STA 955+18.15 TO 955+33.15 LT			4			
STAGE II						
STA 953+70.85 TO 954+06.80 RT				13		
STA 954+98.80 TO 955+33.15 RT				13		
STA 952+06.20 TO 954+01.00 RT					43	309
STA 955+03.00 TO 956+28.63 RT					25	204
TOTALS	327	327	8	26	68	513

PAVING SCHEDULE				
LOCATION	HOT-MIX ASPHALT SURFACE COURSE, IL-9.5, MIX "C", N70	BITUMINOUS MATERIALS (TACK COAT)	HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT	TEMPORARY RAMP
	TON	POUND	SQ YD	SQ YD
STA 953+00.00 TO 953+70.85	23	93	189	29
STA 955+33.15 TO 956+00.00	22	87	181	29
TOTALS	45	180	370	58

GUARDRAIL SCHEDULE						
LOCATION	GUARDRAIL REMOVAL	STEEL PLATE BEAM GUARDRAIL, TYPE A, 6 FOOT POSTS	TRAFFIC BARRIER TERMINAL, TYPE 6	TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT	TERMINAL MARKER - DIRECT APPLIED	GUARDRAIL REFLECTORS, TYPE A
	FOOT	FOOT	EACH	EACH	EACH	EACH
STA 951+43.46 TO 954+06.80 RT	264					
STA 952+43.40 TO 954+06.80 LT	164					
STA 954+98.80 TO 955+12.77 RT	14					
STA 954+98.80 TO 955+12.95 LT	14					
STA 952+26.60 TO 954+01.00 RT		87.5	1	1	1	3
STA 952+89.10 TO 954+01.00 LT		25	1	1	1	2
STA 955+03.00 TO 956+14.90 RT		25	1	1	1	2
STA 955+03.00 TO 956+77.40 LT		87.5	1	1	1	3
TOTALS	456	225	4	4	4	10

PCC PAVEMENT SCHEDULE			
LOCATION	PAVEMENT CONNECTOR (PCC) FOR BRIDGE APPROACH SLAB	PROTECTIVE COAT	WELDED WIRE REINFORCEMENT
	SQ YD	SQ YD	SQ YD
STAGE I			
STA 953+70.85 TO 953+85.85 LT	27	27	27
STA 955+18.15 TO 955+33.15 LT	27	27	27
STAGE II			
STA 953+70.85 TO 953+85.85 RT	28	28	28
STA 955+18.15 TO 955+33.15 RT	28	28	28
TOTALS	110	110	110

DRAINAGE SCHEDULE	
LOCATION	BOX CULVERT REMOVAL
	FOOT
STA 955+22.00 LT FE	20
TOTAL	20

INCIDENTAL HMA SCHEDULE			
LOCATION	INCIDENTAL HOT-MIX ASPHALT SURFACING	AGGREGATE BASE COURSE, TYPE B 8"	BITUMINOUS MATERIALS (TACK COAT)
	TON	SQ YD	POUND
STA 956+85.00 RT FE	2.5	22.5	46
STA 957+48.00 LT FE	2.5	22.5	46
TOTALS	5	45	92

REMOVAL SCHEDULE		
LOCATION	PAVEMENT REMOVAL	PAVED SHOULDER REMOVAL
	SQ YD	SQ YD
PRE-STAGE I		
STA 953+98.50 TO 954+06.80 RT		1
STA 954+98.80 TO 955+00.00 RT		0.5
STAGE I		
STA 953+70.85 TO 954+28.75 LT	92	
STA 953+98.00 TO 954+06.80 LT		1.5
STA 954+76.90 TO 955+33.15 LT	90	
STA 954+98.80 TO 955+04.50 LT		1
STAGE II		
STA 953+70.85 TO 954+28.75 RT	77	
STA 954+76.90 TO 955+33.15 RT	76	
TOTALS	335	4



USER NAME = Ehren,Kirby
ESCA PROJECT NO. 1359.13
PLOT SCALE = 0.1667 ' / in.
PLOT DATE = 12/27/2024

DESIGNED - IRC
DRAWN - IRC
CHECKED - ELH
DATE - 08/24

REVISED -
REVISED -
REVISED -
REVISED -

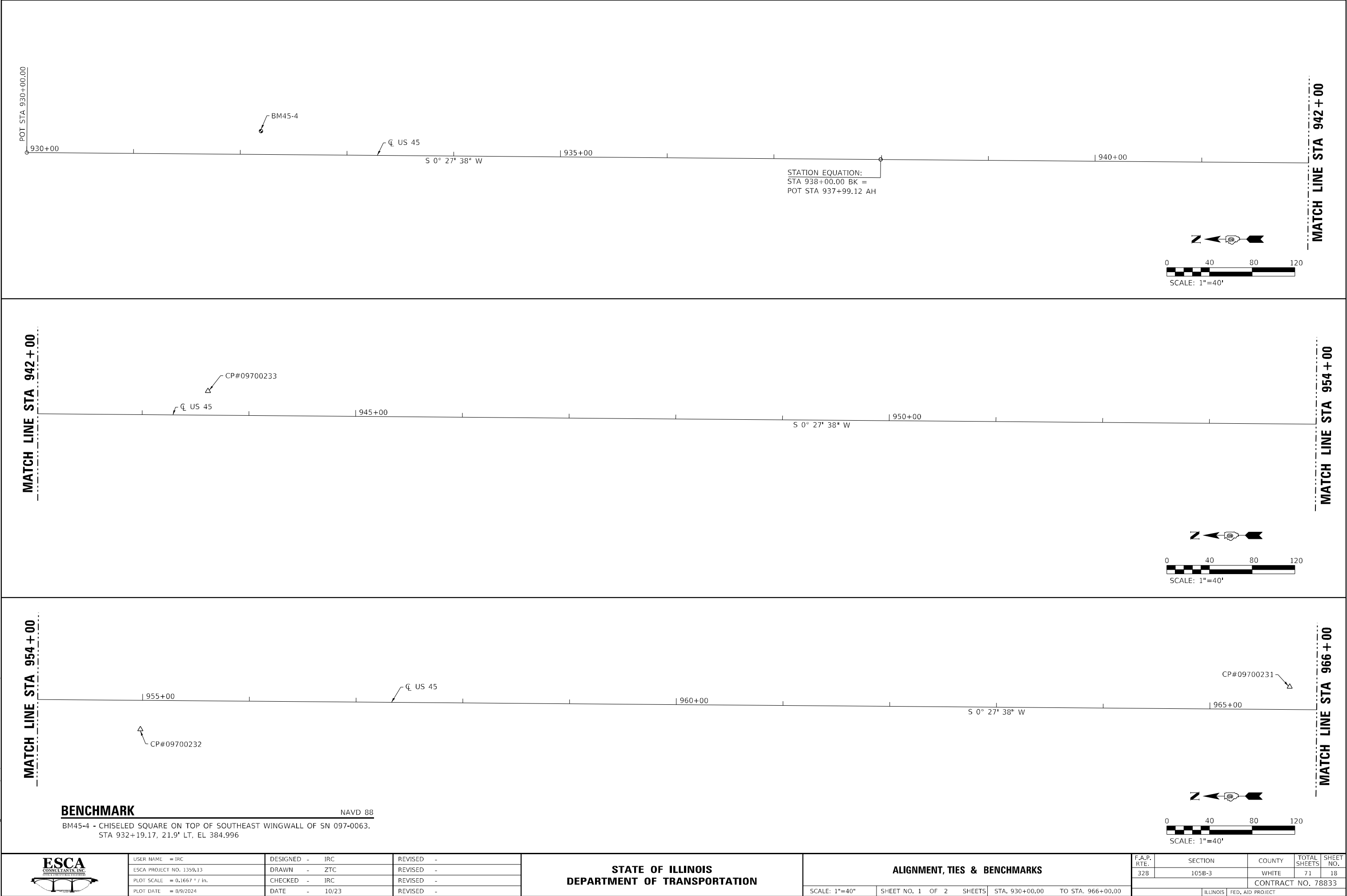
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SCHEDULES OF QUANTITIES

SCALE: NONE	SHEET NO. 2 OF 2 SHEETS	STA. TO STA.
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F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
328	1058-3	WHITE	71	17
CONTRACT NO. 78833				
		ILLINOIS	FED. AID PROJECT	

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PLOT SCALE = 0.1667 ' / in.	CHECKED - IRC	REVISED -
PLOT DATE = 8/9/2024	DATE - 10/23	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ALIGNMENT, TIES & BENCHMARKS

SCALE: 1"=40" SHEET NO. 1 OF 2 SHEETS STA. 930+00.00 TO STA. 966+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
328	105B-3	WHITE	71	18
CONTRACT NO. 78833				
ILLINOIS FED. AID PROJECT				

MODEL: PLOT
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ESCA PROJECT NO.	1359.13	DRAWN -	ZTC	REVISED -	
PLOT SCALE	= 0.1667 ' / in.	CHECKED -	IRC	REVISED -	
PLOT DATE	= 8/9/2024	DATE -	10/23	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ALIGNMENT, TIES & BENCHMARKS

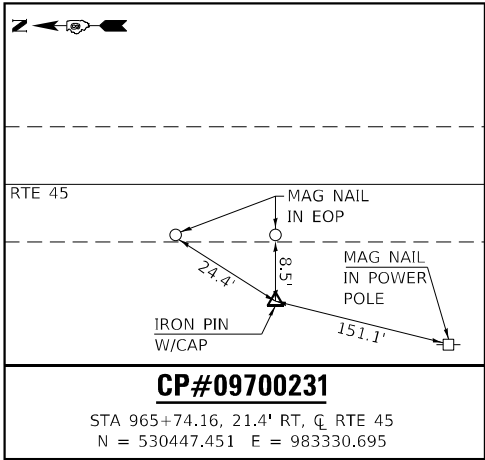
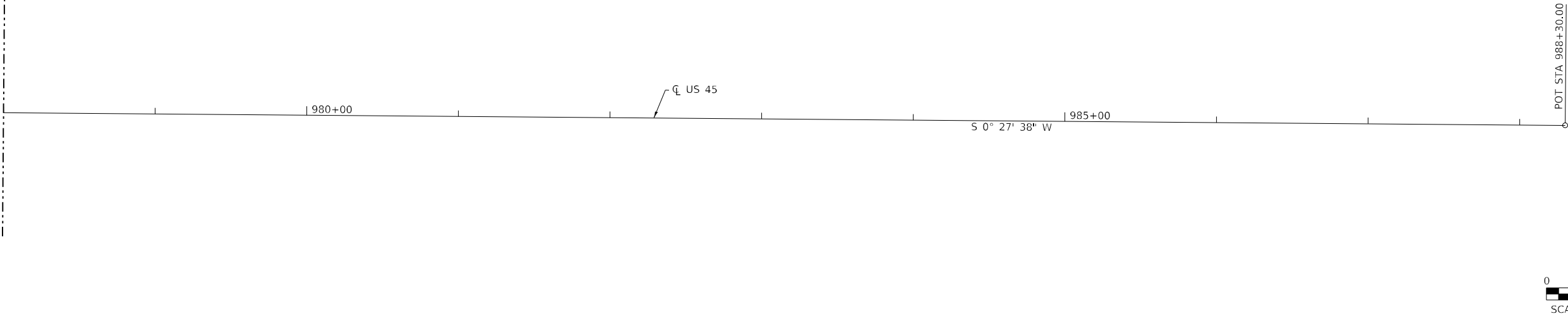
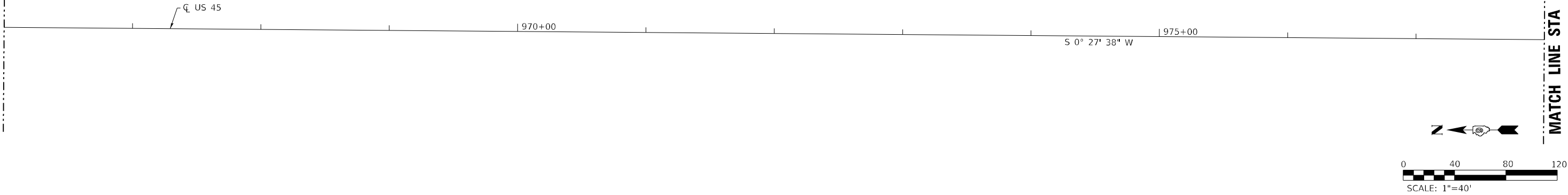
SCALE: 1"=40' SHEET NO. 2 OF 2 SHEETS STA. 966+00.00 TO STA. 988+30.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
328	105B-3	WHITE	71	19
CONTRACT NO. 78833				
ILLINOIS FED. AID PROJECT				

MATCH LINE STA 966 + 00

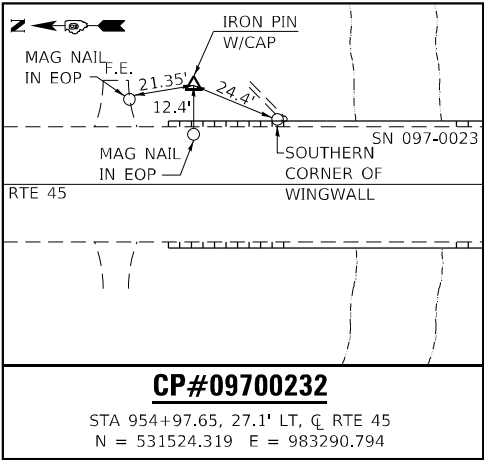
MATCH LINE STA 978 + 00

MATCH LINE STA 978 + 00



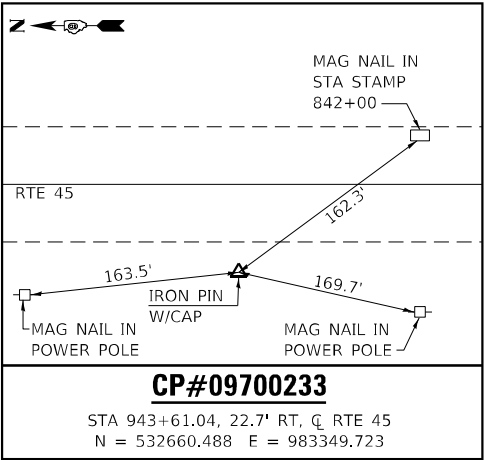
CP#09700231

STA 965+74.16, 21.4' RT, CL RTE 45
N = 530447.451 E = 983330.695



CP#09700232

STA 954+97.65, 27.1' LT, CL RTE 45
N = 531524.319 E = 983290.794



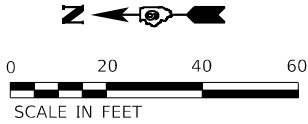
CP#09700233

STA 943+61.04, 22.7' RT, CL RTE 45
N = 532660.488 E = 983349.723

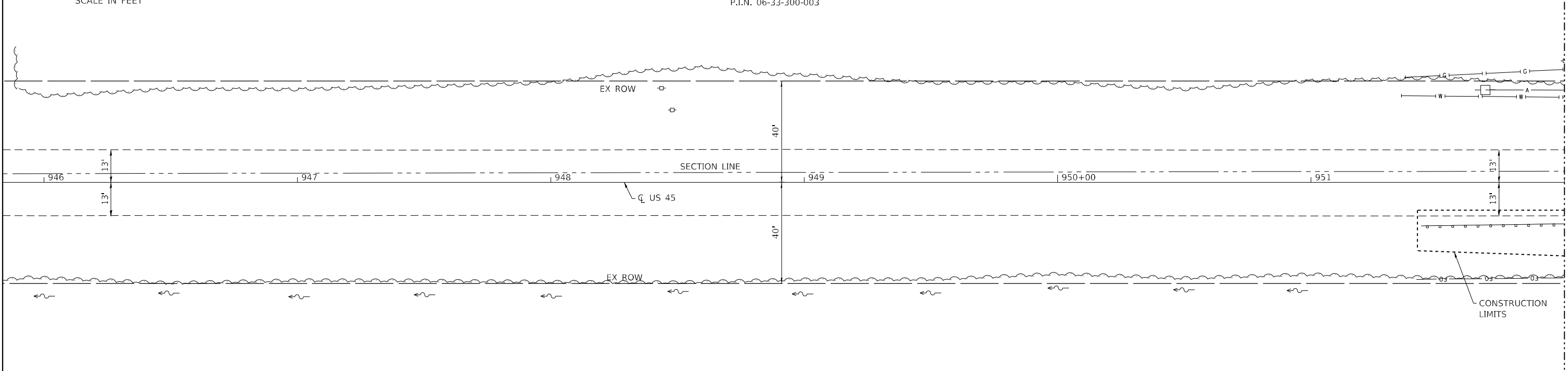
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NOTE BOOK NO.			

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

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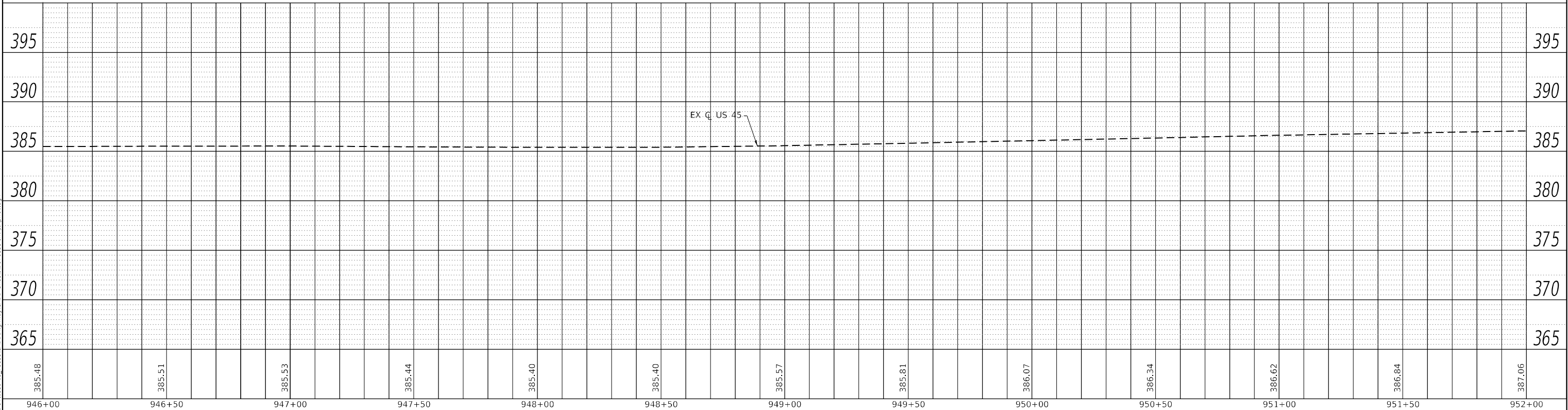


HORN JOINT
PRIMARY TRUST
(BK 415, PG 188)
P.I.N. 06-33-300-003



MATCH LINE STA 952+00
SEE SHEET 2 FOR CONT.

HORN JOINT
PRIMARY TRUST
(BK 2014, PG 16680)
P.I.N. 06-32-400-003



USER NAME = IRC
ESCA PROJECT NO. 1359.13
PLOT SCALE = 40,0000 * / in.
PLOT DATE = 12/16/2024

DESIGNED - ATN
DRAWN - JPC
CHECKED - ELH
DATE - 08/24

REVISED -
REVISED -
REVISED -
REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

US 45 PLAN AND PROFILE

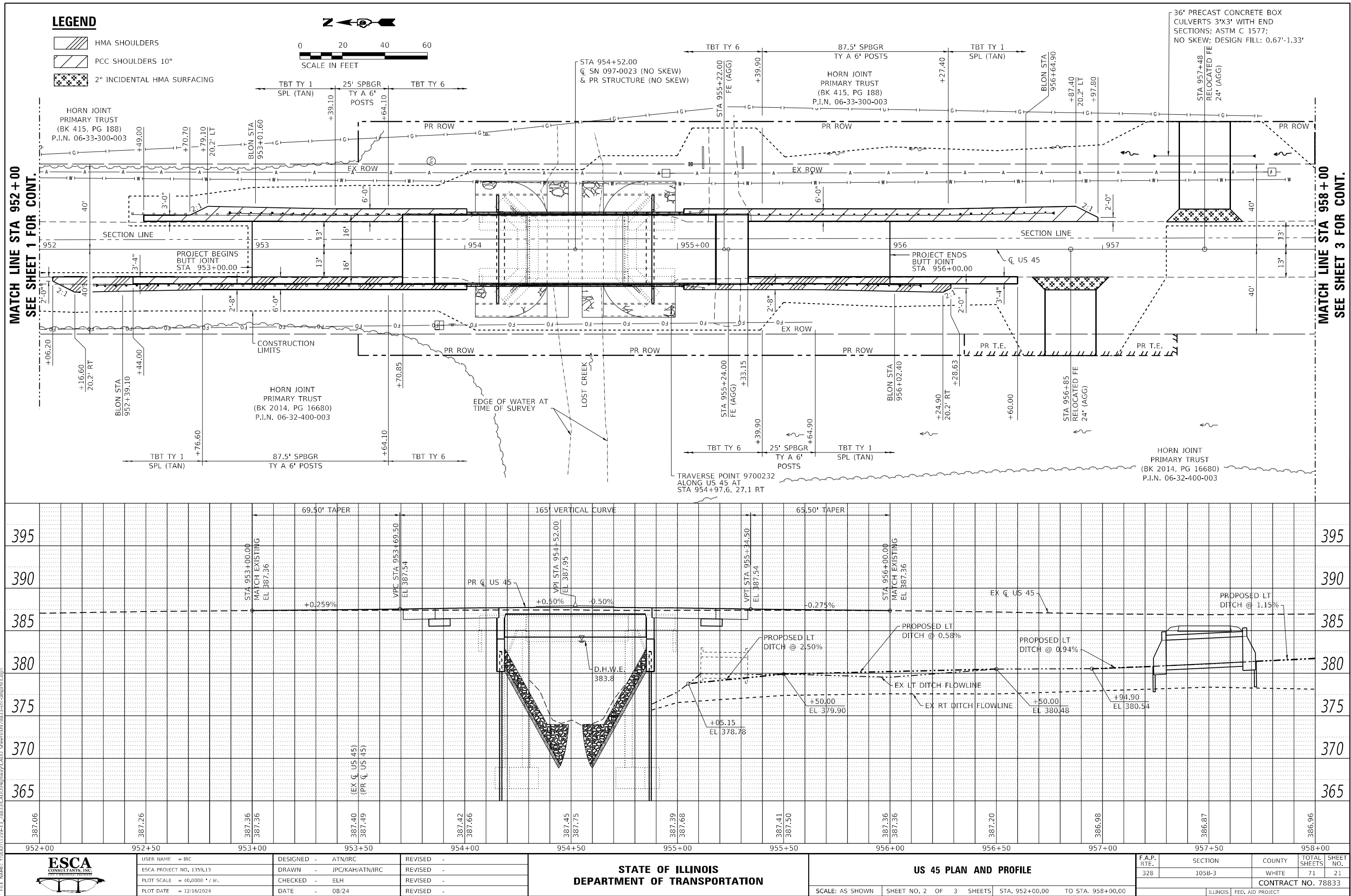
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F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
328	1058-3	WHITE	71	20
CONTRACT NO. 78833				
ILLINOIS FED. AID PROJECT				

PLAN			BY	DATE
NOTE BOOK NO. _____	SURVEYED _____			
	PLOTTED _____			
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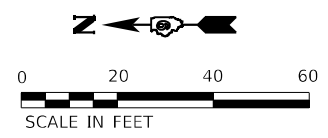
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	PLOTTED _____		
NOTE BOOK	GRADES CHECKED _____		
	R.M. NOTED _____		
NO. _____	STRUCTURE NOTATIONS CHKD _____		

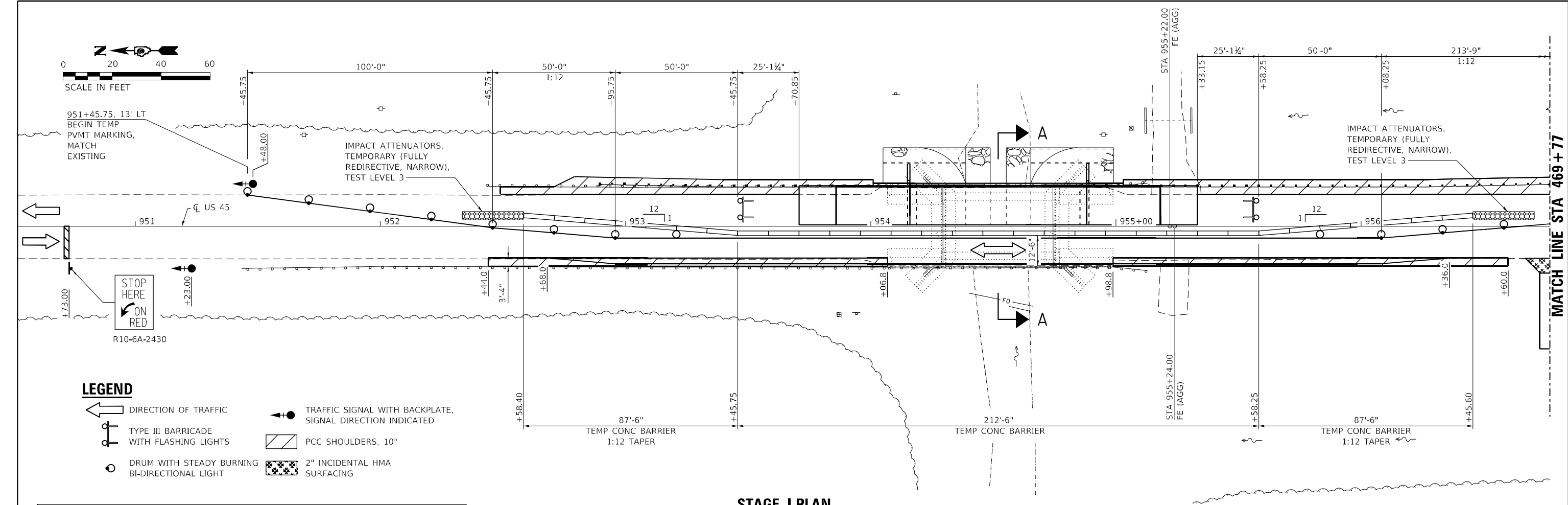
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PROFILE	SURVEYED _____	BY _____	DATE _____
	PLOTTED _____		
	GRADES CHECKED _____		
	B.M. NOTED _____		
	STRUCTURE NOTATIONS CHKD _____		
NOTE BOOK _____			
NO. _____			

**MATCH LINE STA 958 + 00
SEE SHEET 2 FOR CONT.**





LEGEND

- DIRECTION OF TRAFFIC
- TYPE III BARRICADE WITH FLASHING LIGHTS
- DRUM WITH STEADY BURNING BI-DIRECTIONAL LIGHT
- TRAFFIC SIGNAL WITH BACKPLATE, SIGNAL DIRECTION INDICATED
- PCC SHOULDERS, 10"
- 2" INCIDENTAL HMA SURFACING

STAGE I PLAN

STAGE I SCHEDULE OF QUANTITIES

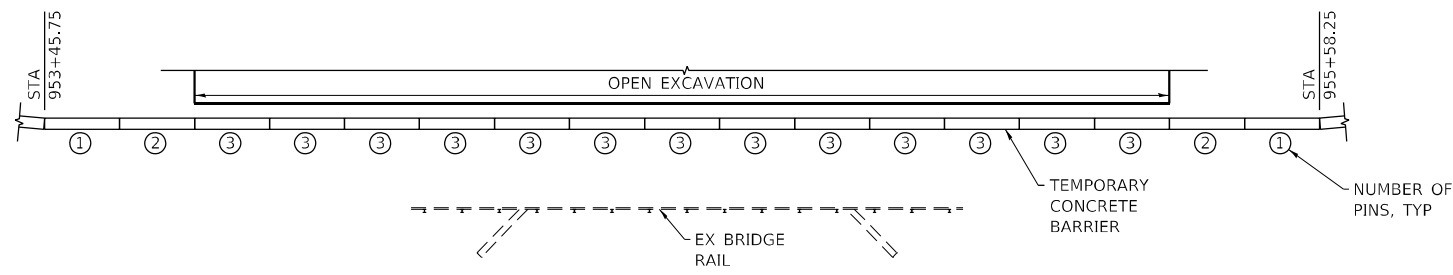
TEMPORARY CONCRETE BARRIER			
STATION, O/S	TO	STATION, O/S	FEET
952+58.40, 5.3' LT	953+45.75, 1.9375' RT	87.5'	
953+45.75, 1.9375' RT	955+58.25, 1.9375' RT	212.5'	
955+58.25, 1.9375' RT	956+45.60, 5.3' LT	87.5'	
STAGE I TOTAL			387.5'

IMPACT ATTENUATORS, TEMPORARY (FULLY REDIRECTIVE, NARROW), TEST LEVEL 3	
- 2 EACH	

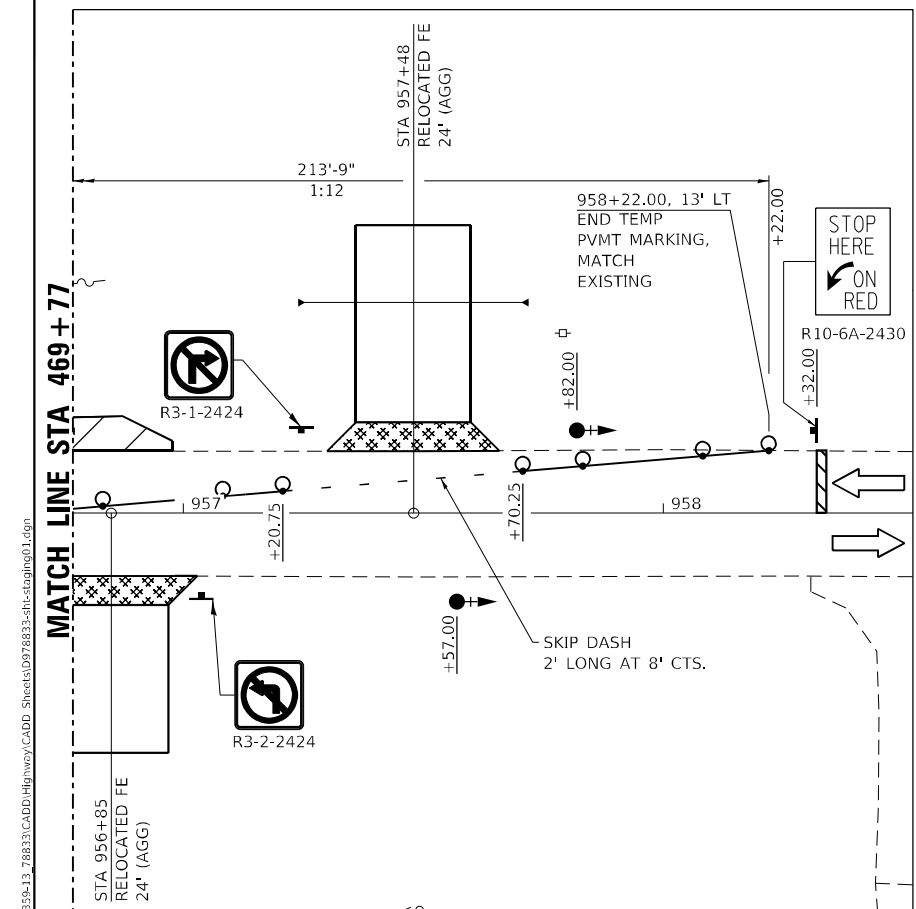
PINNING TEMPORARY CONCRETE BARRIER			
STATION	TO	STATION	TYPE
953+70.75	955+33.25	CONTINUOUS	39
953+45.75	953+70.75	TRANSITION	3
955+33.25	955+58.25	TRANSITION	3
STAGE I TOTAL			45

GENERAL NOTES

- THE PRE-STAGE I CONSTRUCTION SHALL INCLUDE THE PCC SHOULDERS ALONG THE SOUTHBOUND LANE AS WELL AS PROPOSED FIELD ENTRANCES AS SHOWN ON THIS SHEET (PRIOR TO PLACING THE TEMPORARY CONCRETE BARRIER).
- CONSTRUCT THREE RUMBLE STRIPS IN EACH DIRECTION ON US 45.
- ALL TRAFFIC SIGNALS SHOWN ARE INCLUDED IN TEMPORARY BRIDGE TRAFFIC SIGNALS - 1 EACH.
- TEMPORARY BRIDGE TRAFFIC SIGNALS SHALL BE A 2-PHASE SIGNAL.
- ADVANCE WIDTH RESTRICTION WARNING SHALL BE INCLUDED IN THE COST OF STANDARD 701321.
- THE DIMENSION SHOWN ON THE WIDTH RESTRICTION SIGN (W12-I102(0)-48) SHOWN ON STANDARD 701321 AND ON THE ADVANCE WARNING SIGN (W12-I103) SHOWN ON THE FOLLOWING SHEET SHALL BE 11'-0" FOR STAGE I CONSTRUCTION.
- 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 CENTERLINE PAVEMENT MARKING SHALL BE REMOVED FROM THE STOP BAR TO THE IMPACT ATTENUATORS.
- THE STAGE I CONSTRUCTION SHALL INCLUDE COMPLETION OF THE EARTHWORK, BOX CULVERTS, PAVEMENT CONNECTOR (PCC) FOR BRIDGE APPROACH SLAB, GUARDRAIL, AND PCC SHOULDERS AS REFERENCED ON THIS SHEET AND DESCRIBED IN DETAIL ON THE PLAN AND PROFILE SHEETS.
- SEE HIGHWAY STANDARD 701321 FOR ADDITIONAL DETAILS. THE COST FOR ADDITIONAL ITEMS SHOWN ON THIS SHEET IS INCLUDED IN THE PRICE FOR TRAFFIC CONTROL AND PROTECTION, STANDARD 701321.



STAGE I PINNING PLAN



MODEL PLOT
FILE NAME: Y:\DOT\1359-13-78833\CADD\Highway\CADD Sheets\DP78833-shi-stageing01.dgn



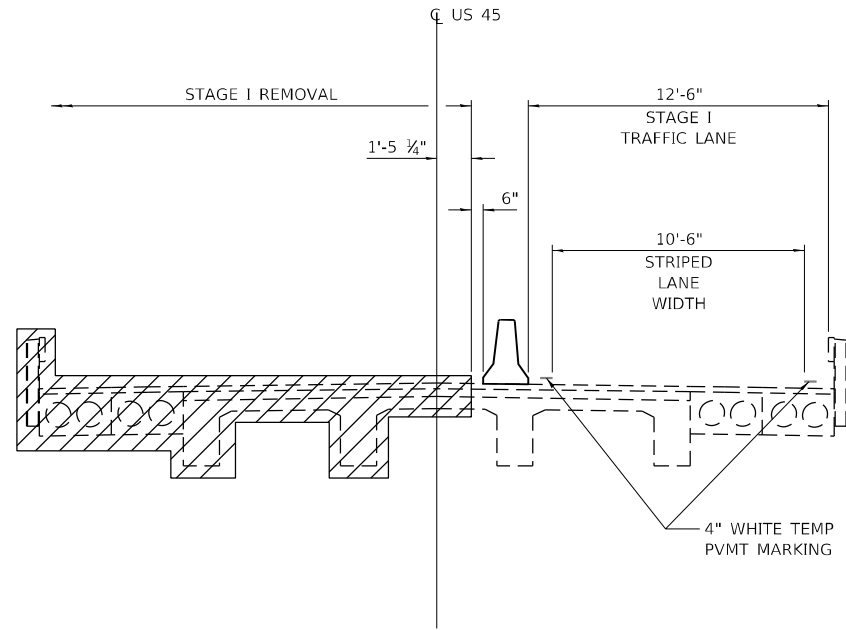
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ESCA PROJECT NO. 1359.13	DRAWN - IRC	REVISED -
PLOT SCALE = 0.1667' / in.	CHECKED - ELH	REVISED -
PLOT DATE = 8/16/2024	DATE - 08/24	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

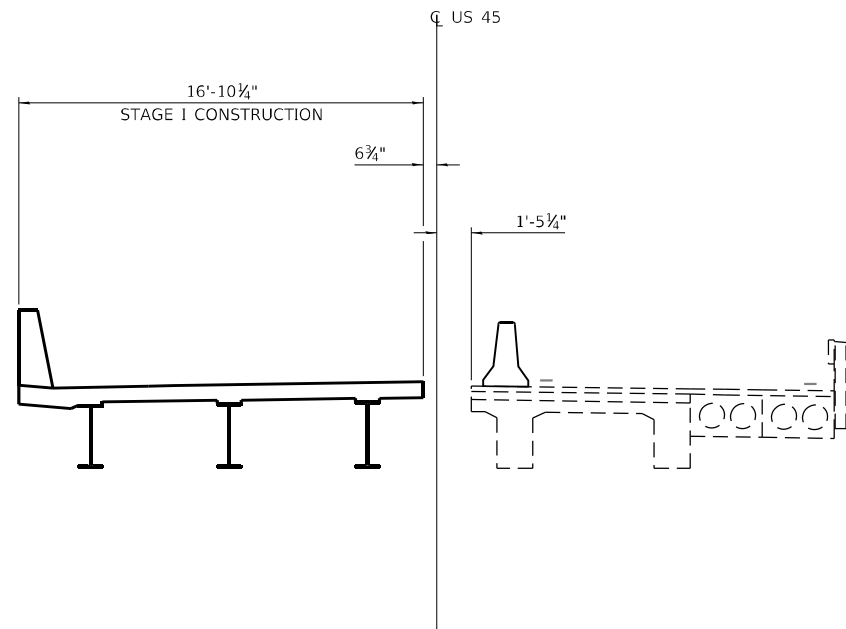
PRE-STAGE I & STAGE I TRAFFIC CONTROL

SCALE: AS SHOWN	SHEET 1 OF 1 SHEETS	STA. 950+52.00 TO STA. 958+52.00
-----------------	---------------------	----------------------------------

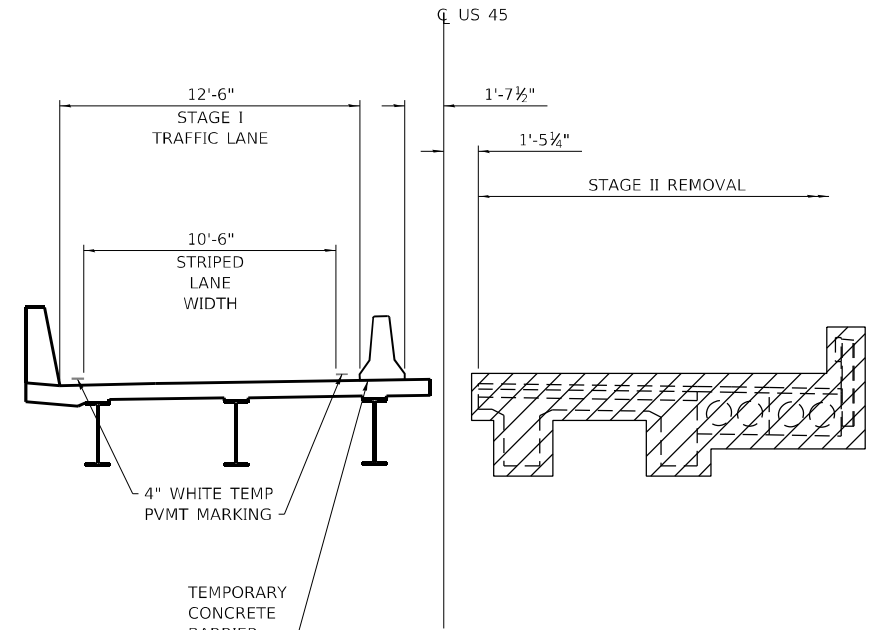
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
328	105B-3	WHITE	71	23
CONTRACT NO. 78833				
ILLINOIS FED. AID PROJECT				



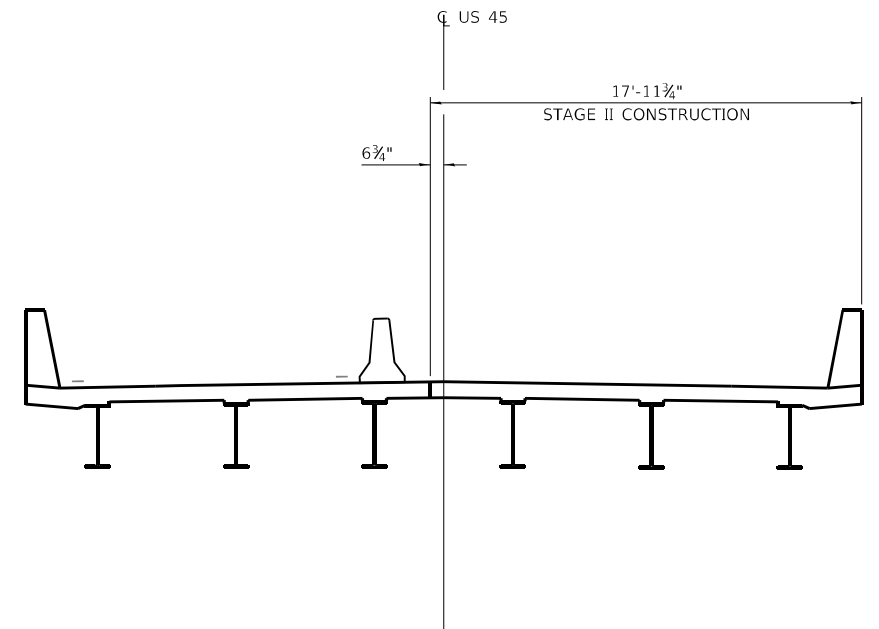
**SECTION A-A
REMOVAL**



**SECTION A-A
CONSTRUCTION**



**SECTION B-B
REMOVAL**



**SECTION B-B
CONSTRUCTION**

MODEL PLOT
FILE NAME: Y:\000T11359-13-78833\CADD\Highway\CADD_Sheets\0978833-shl-stageing03.dgn



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ESCA PROJECT NO. 1359.13	DRAWN - IRC	REVISED -
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PLOT DATE = 8/9/2024	DATE - 08/24	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

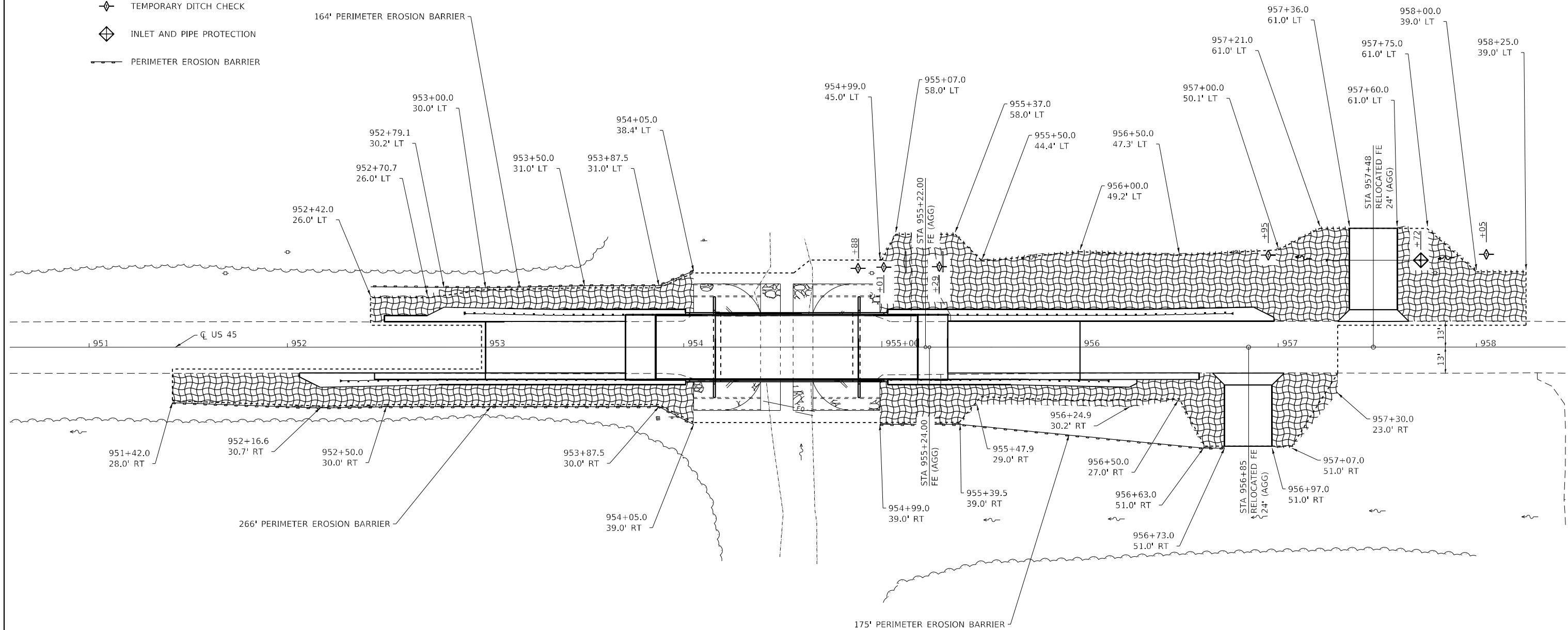
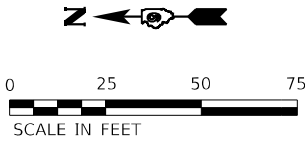
STAGE CONSTRUCTION SECTIONS

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
328	105B-3	WHITE	71	25
CONTRACT NO. 78833				
ILLINOIS FED. AID PROJECT				

LEGEND

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



MODEL: Default
FILE NAME: Y:\DOT\1359-13-78833\CADD\Highway\CADD Sheets\DS78833-sht-eros01.dgn



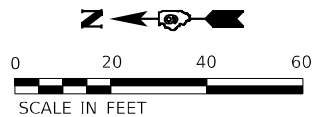
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PLOT DATE = 8/9/2024	DATE - 04/24	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EROSION CONTROL PLAN

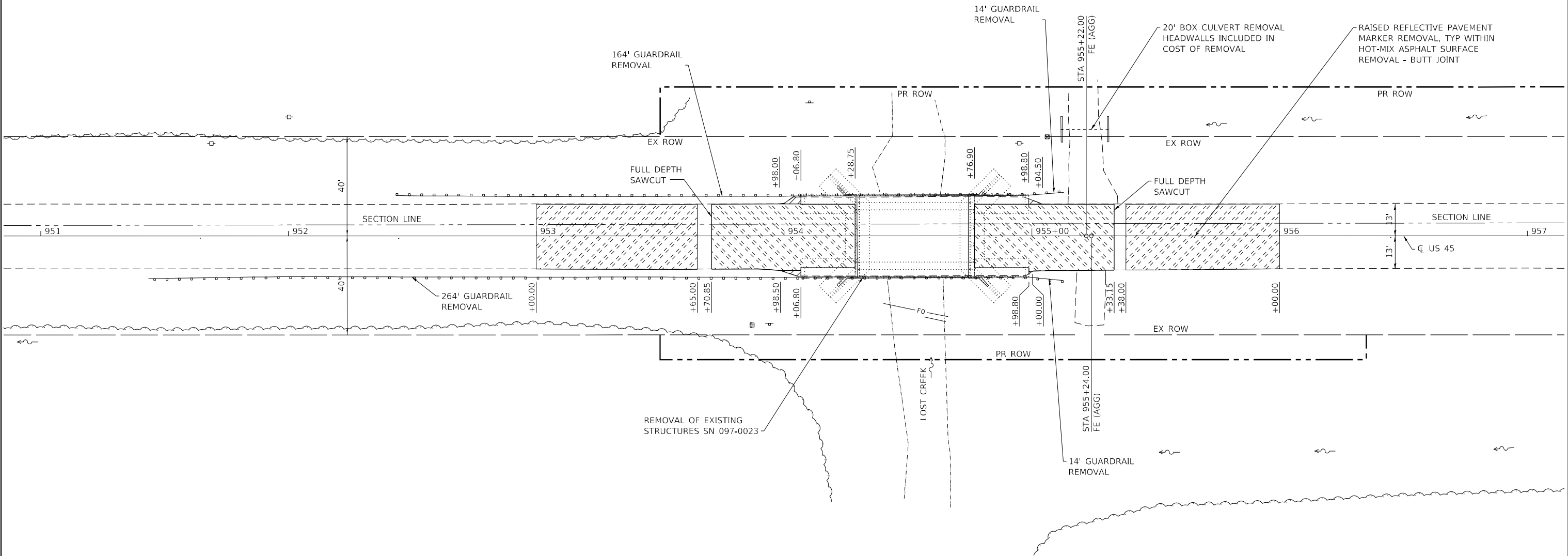
SCALE: AS SHOWN SHEET 1 OF 1 SHEETS STA. 950+60.00 TO STA. 958+45.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
328	1058-3	WHITE	71	26
CONTRACT NO. 78833				
ILLINOIS FED. AID PROJECT				



LEGEND

- PAVEMENT REMOVAL
HOT-MIX ASPHALT SURFACE
REMOVAL - BUTT JOINT
PAVED SHOULDER REMOVAL



MODEL: Default
FILE NAME: Y:\DOT\1359-13-78833\CADD\Highway\CADD Sheets\0978833-sjt-ent01.dgn



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ESCA PROJECT NO. 1359.13	DRAWN - IRC	REVISED -
PLOT SCALE = 40,0000 * / in.	CHECKED - ELH	REVISED -
PLOT DATE = 8/9/2024	DATE - 08/24	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

REMOVAL PLAN

SCALE: AS SHOWN SHEET 1 OF 1 SHEETS STA. 950+85.00 TO STA. 957+15.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
328	1058-3	WHITE	71	27
CONTRACT NO. 78833				
ILLINOIS FED. AID PROJECT				

LEGEND	
	SURVEY MONUMENT FOUND
	SURVEY MONUMENT SET
	SECTION LINE
	QUARTER SECTION LINE
	QUARTER QUARTER SECTION LINE
	PROPERTY LINE
	ROADWAY ALIGNMENT LINE
	EXISTING RIGHT OF WAY LINE
	PROPOSED RIGHT OF WAY LINE
	TEMPORARY EASEMENT LINE

SURVEYOR NOTES

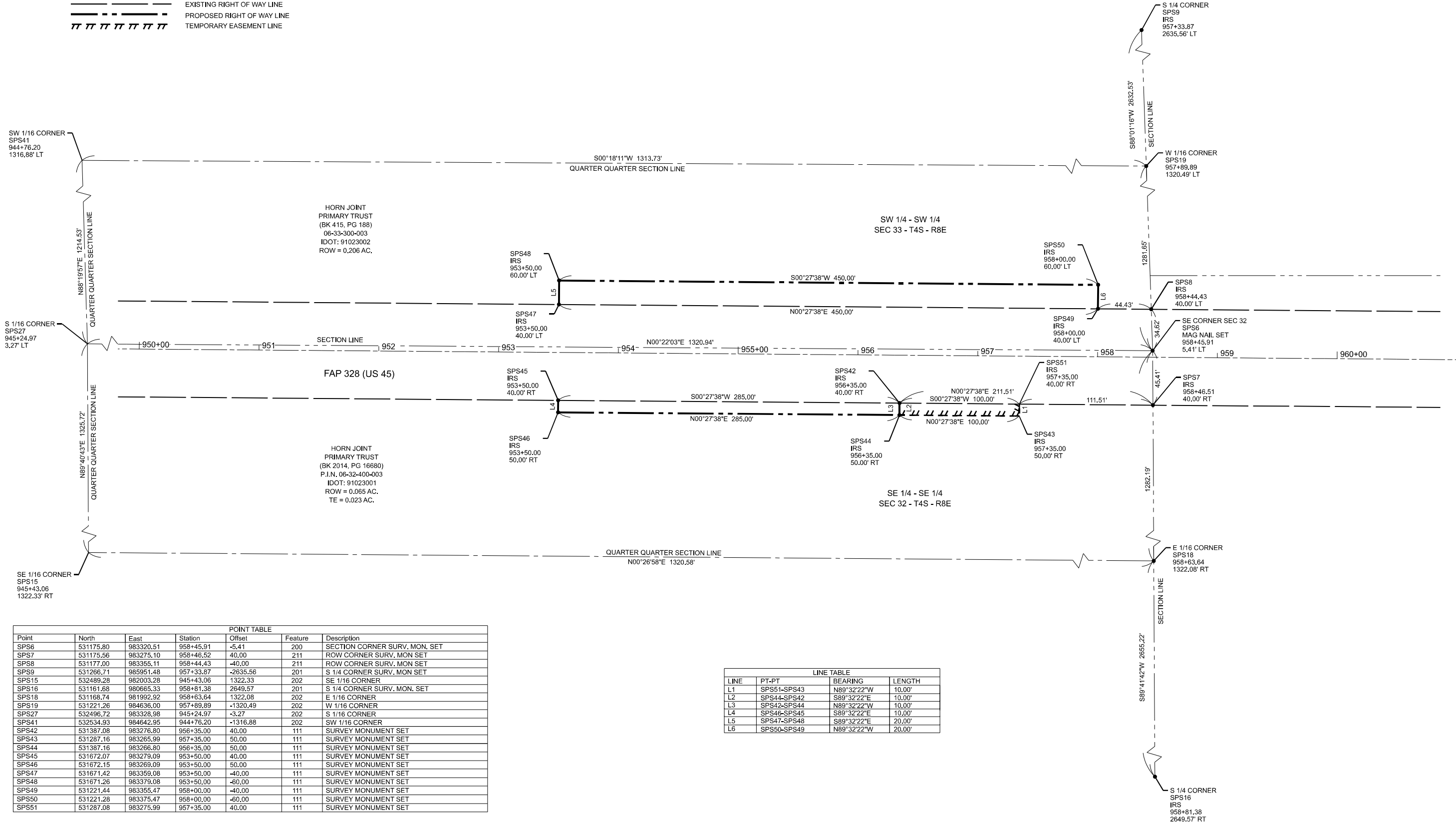
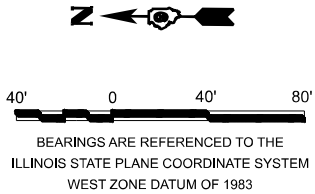
1. REFERENCE IS MADE TO A MONUMENT RECORD BY SCHUH, IPLS 3927, DATED 11/30/2015, AND RECORDED IN BOOK 2015, AT PAGE 16957 IN THE WHITE COUNTY RECORDER'S OFFICE.
2. SEE MON. REC. RECORDED IN BK 2023 PG 8208 & BK 2023 PG 8209 IN CONJUNCTION WITH THIS SURVEY.

SURVEYORS CERTIFICATE

THIS PROFESSIONAL SERVICE CONFORMS TO THE CURRENT ILLINOIS MINIMUM STANDARDS OF PRACTICE APPLICABLE TO BOUNDARY SURVEYS.

DATE: SIGNED:

ILLINOIS PROFESSIONAL LAND SURVEYOR
MITCHELL R. GARRETT, NO. 3085
LICENSE EXPIRES 11/30/2024



POINT TABLE						
Point	North	East	Station	Offset	Feature	Description
SPS6	531175.80	983320.51	958+45.91	-5.41	200	SECTION CORNER SURV. MON. SET
SPS7	531175.56	983275.10	958+46.52	40.00	211	ROW CORNER SURV. MON SET
SPS8	531177.00	983355.11	958+44.43	-40.00	211	ROW CORNER SURV. MON SET
SPS9	531266.71	985951.48	957+33.87	-2635.56	201	S 1/4 CORNER SURV. MON SET
SPS15	532489.28	982003.28	945+43.06	1322.33	202	SE 1/16 CORNER
SPS16	531161.68	980665.33	958+81.38	2649.57	201	S 1/4 CORNER SURV. MON. SET
SPS18	531168.74	981992.92	958+63.64	1322.08	202	E 1/16 CORNER
SPS19	531221.26	984636.00	957+89.89	-1320.49	202	W 1/16 CORNER
SPS27	532496.72	983328.98	945+24.97	-3.27	202	S 1/16 CORNER
SPS41	532534.93	984642.95	944+76.20	-1316.88	202	SW 1/16 CORNER
SPS42	531387.08	983276.80	956+35.00	40.00	111	SURVEY MONUMENT SET
SPS43	531287.16	983265.99	957+35.00	50.00	111	SURVEY MONUMENT SET
SPS44	531387.16	983266.80	956+35.00	50.00	111	SURVEY MONUMENT SET
SPS45	531672.07	983279.09	953+50.00	40.00	111	SURVEY MONUMENT SET
SPS46	531672.15	983269.09	953+50.00	50.00	111	SURVEY MONUMENT SET
SPS47	531671.42	983359.08	953+50.00	-40.00	111	SURVEY MONUMENT SET
SPS48	531671.26	983379.08	953+50.00	-60.00	111	SURVEY MONUMENT SET
SPS49	531221.44	983355.47	958+00.00	-40.00	111	SURVEY MONUMENT SET
SPS50	531221.28	983375.47	958+00.00	-60.00	111	SURVEY MONUMENT SET
SPS51	531287.08	983275.99	957+35.00	40.00	111	SURVEY MONUMENT SET

LINE TABLE			
LINE	PT-PT	BEARING	LENGTH
L1	SPS51-SPS43	N89°32'22\"W	10.00'
L2	SPS44-SPS42	S89°32'22\"E	10.00'
L3	SPS42-SPS44	N89°32'22\"W	10.00'
L4	SPS46-SPS45	S89°32'22\"E	10.00'
L5	SPS47-SPS48	S89°32'22\"E	20.00'
L6	SPS50-SPS49	N89°32'22\"W	20.00'

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

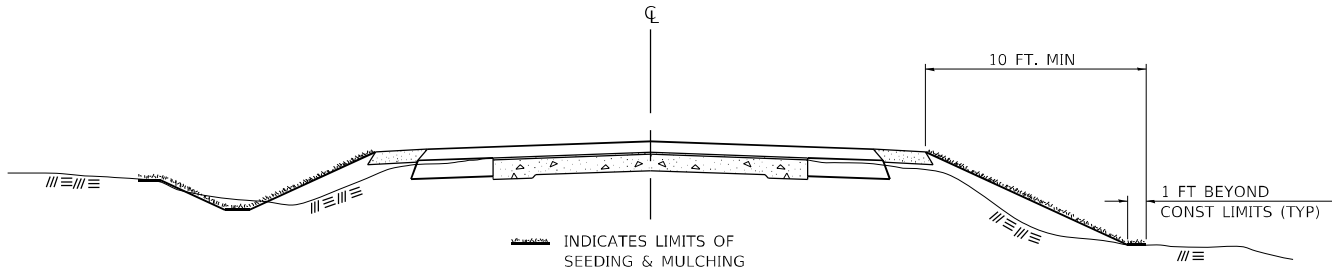
RIGHT-OF-WAY PLAN

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
328	105B-3	WHITE	71	28
CONTRACT NO. 78833				
ILLINOIS FED. AID PROJECT				

MODEL: ROW Sheet-1 [Sheet]
FILE NAME: c:\pwworking\mitchellkirby\ea1028252\0978833-ROW.dgn

SEEDING & MULCHING



GENERAL NOTES

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

ON DETOUR ROADS, SLOPES SHALL BE SEEDED IMMEDIATELY UPON COMPLETION OF ANY GIVEN STAGE GRADING. TEMPORARY SEEDING SHALL BE CLASS 7.

FERTILIZER NUTRIENTS SHALL BE APPLIED TO ALL SEEDED AREAS. LIMESTONE SHALL BE APPLIED TO ALL AREAS OF FINAL SEEDING.

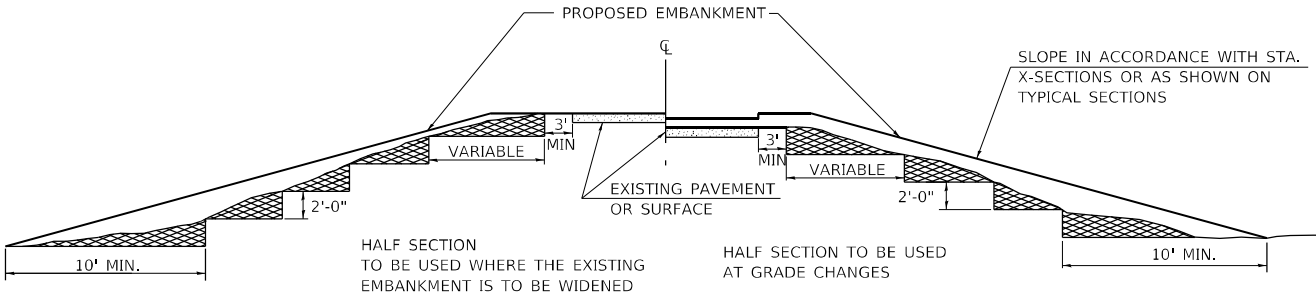
THE RATES OF APPLICATION OF FERTILIZER, MULCH AND LIMESTONE SHALL BE AS SPECIFIED IN THE STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION.

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

STD. 9-12

REVISIONS	
REDRAWN	2-15-89
REVISED	8-15-94
REVISED	6-3-99
REVISED	3-27-08
REVISED	5-16-13
REVISED	10-21-21

TYPICAL CROSS SECTION SHOWING STEP CONSTRUCTION ON EXISTING FILL



STEPS SHALL BE CUT IN THE EXISTING SLOPE IN ACCORDANCE WITH ART. 205.03 EXCEPT THAT THE REQUIREMENT THAT STEPS SHALL BE CUT INTO THE EXISTING SLOPE BEFORE THE CONSTRUCTION OF THE EXISTING EMBANKMENT IS STARTED SHALL NOT APPLY. MATERIAL TO BE REMOVED AND REPLACED IN THE EMBANKMENT IN ACCORDANCE WITH ART. 205.04. COST TO BE INCLUDED IN THE VARIOUS ITEMS OF EXCAVATION AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED BECAUSE OF THIS WORK.

STD. 9-16

REVISIONS	
REDRAWN	2-15-89
REVISED	8-15-94
CHECKED	6-3-99
RESIZED	5-7-08
REVIEWED	5-17-13
REVISED	4-22-21
REVISED	10-21-21

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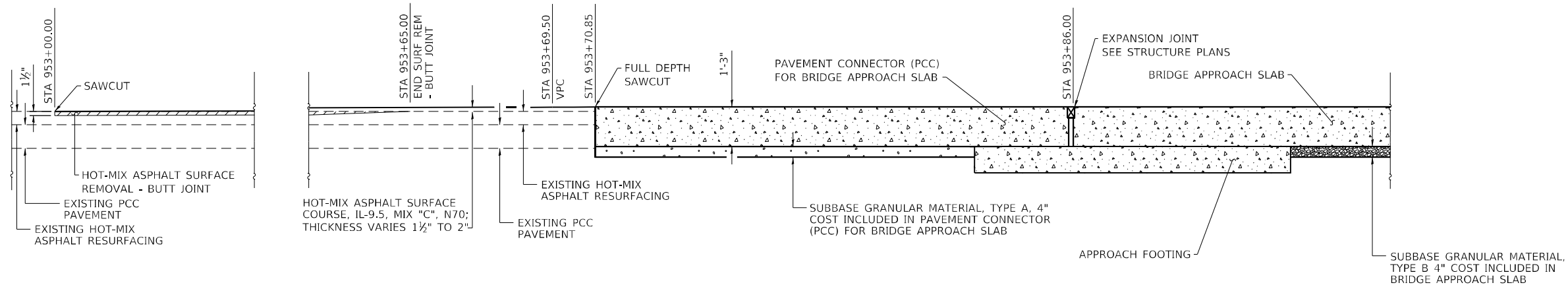
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ESCA PROJECT NO. 1359.13	DRAWN - IRC	REVISED -
PLOT SCALE = 0.1667 ' / in.	CHECKED - ELH	REVISED -
PLOT DATE = 8/9/2024	DATE - 10/23	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

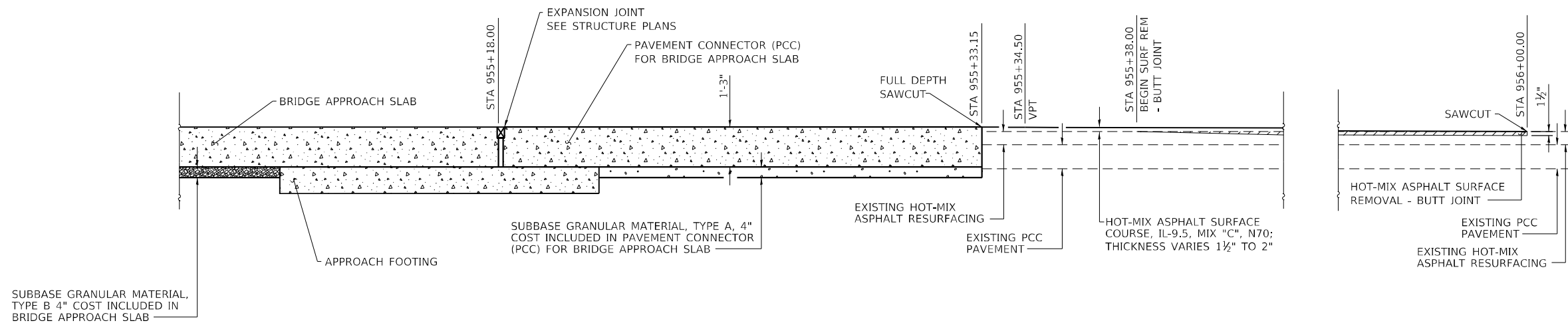
SEEDING AND MULCHING
& STEP CONSTRUCTION ON EXISTING FILL

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
328	1058-3	WHITE	71	29
CONTRACT NO. 78833				
ILLINOIS FED. AID PROJECT				



LONGITUDINAL SECTION
FAP 328 (US 45) STA 953+00.00 TO STA 954+16.00



LONGITUDINAL SECTION
FAP 328 (US 45) STA 954+88.00 TO STA 956+00.00

MODEL: PLOT
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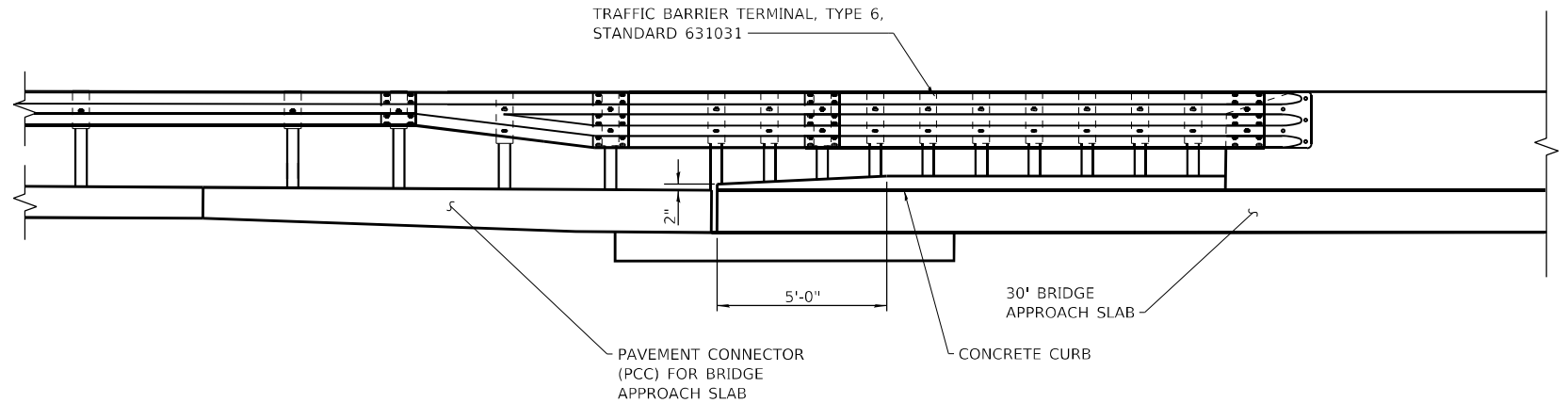
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PLOT SCALE = 0.1667 ' / in.	CHECKED - ELH	REVISED -
PLOT DATE = 8/9/2024	DATE - 10/23	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

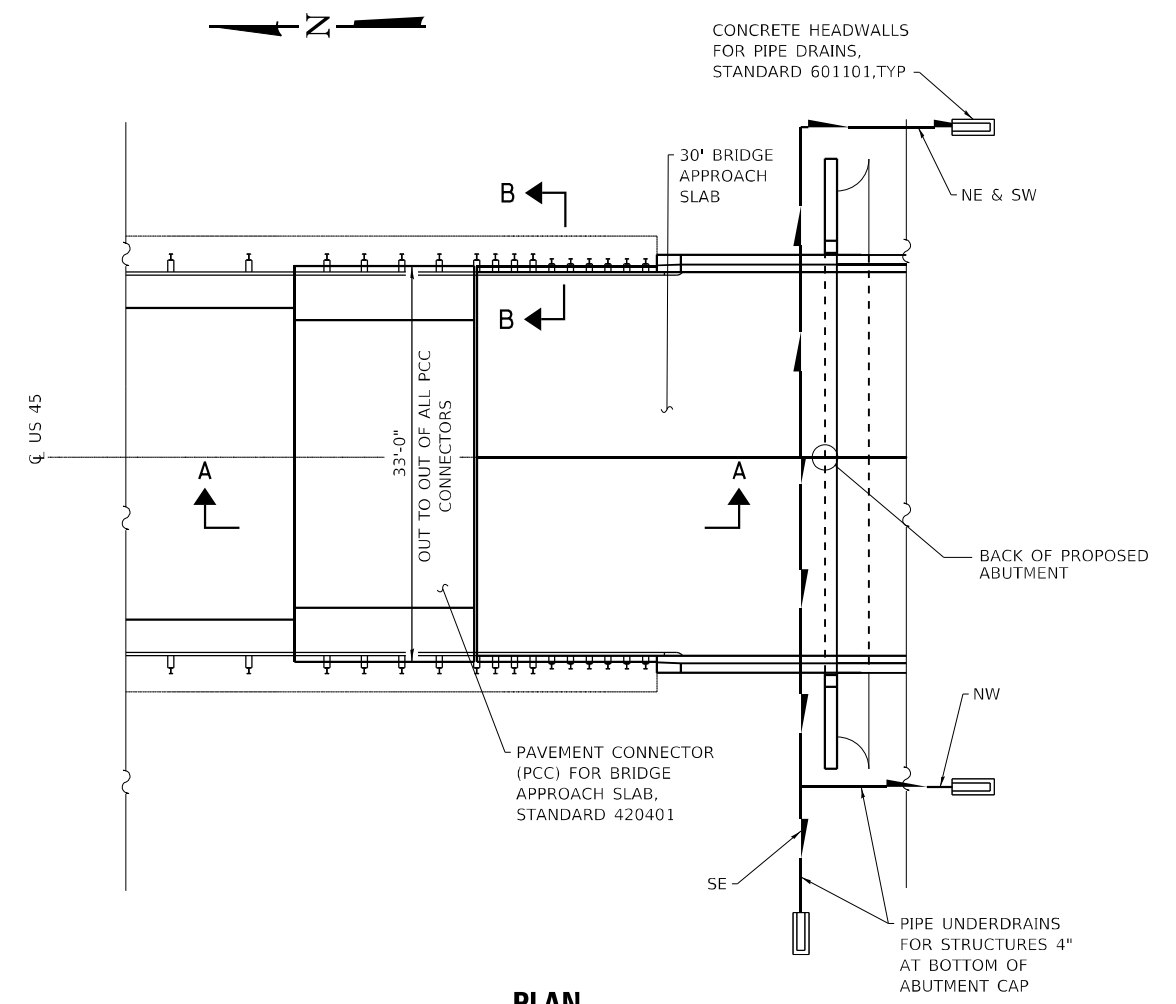
PAVEMENT TRANSITION DETAILS

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
328	1058-3	WHITE	71	30
CONTRACT NO. 78833				
ILLINOIS FED. AID PROJECT				



SECTION A-A



PLAN

(NORTH ABUTMENT OF SN 097-0083 SHOWN; SOUTH ABUTMENT SIMILAR)

MODEL PLOT
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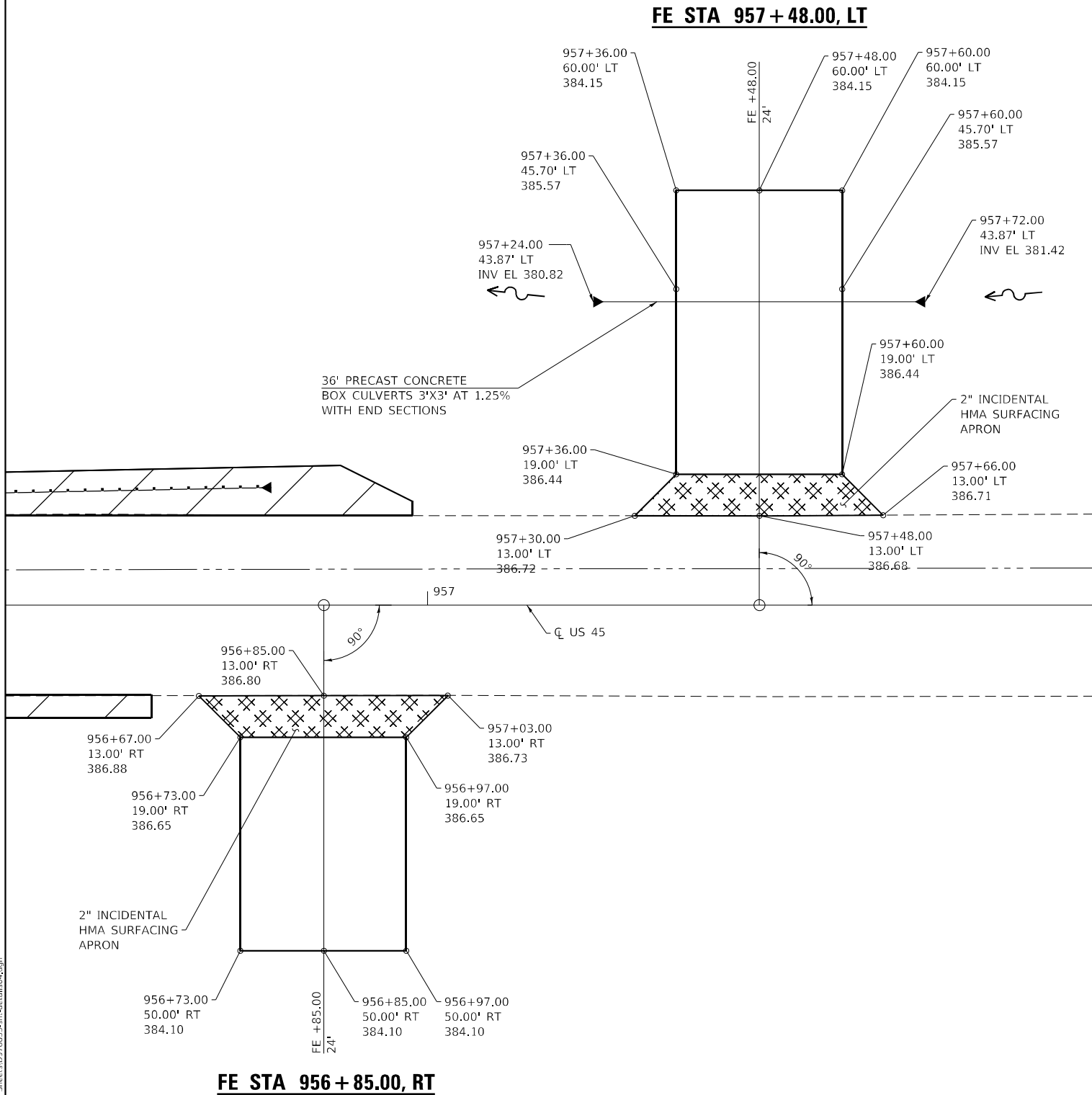
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PLOT SCALE = 0.1667' / in.	CHECKED - ELH	REVISED -
PLOT DATE = 8/9/2024	DATE - 10/23	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

PAVEMENT CONNECTOR DETAILS

SCALE: NONE	SHEET NO. 1 OF 1 SHEETS	STA. TO STA.
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F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
328	1058-3	WHITE	71	31
CONTRACT NO. 78833				
ILLINOIS FED. AID PROJECT				



Technical drawing of a box culvert end section. The drawing includes a side elevation and a top-down view. The side elevation shows a culvert with a top width of 6'-0" and a bottom width of 4'-0". The height of the culvert is 7'-0". The culvert is shown with a sloped side wall and a vertical toe wall. The toe wall is 8" thick and has a base width of 1'-0". The culvert is shown with a sloped side wall and a vertical toe wall. The toe wall is 8" thick and has a base width of 1'-0". The culvert is shown with a sloped side wall and a vertical toe wall. The toe wall is 8" thick and has a base width of 1'-0".

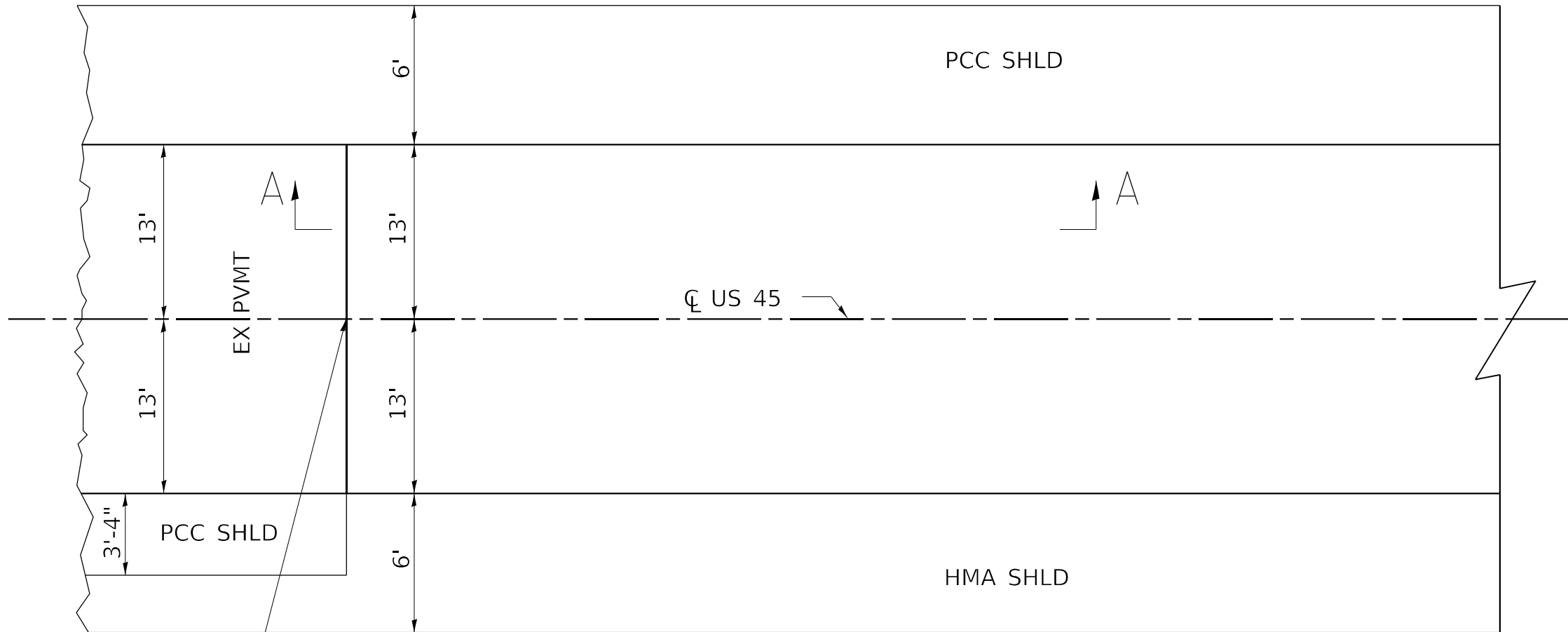
END CONNECTION TO FIT PRECAST BOX CULVERT (BELL OR SPIGOT)

FIELD POURED TOE WALL, COST INCLUDED IN BOX CULVERT END SECTION

END VIEW

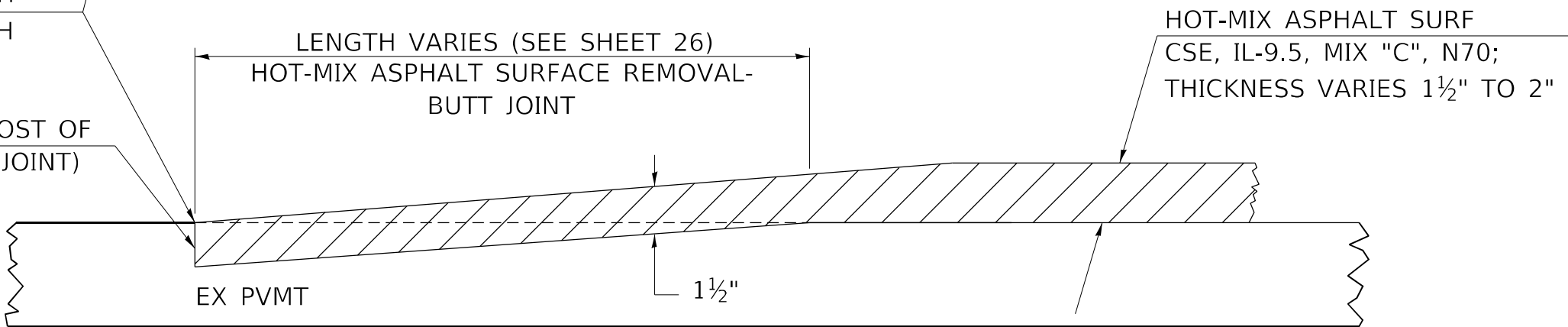
NOTE: NOT TO SCALE

BUTT JOINT



STA 953+00 NORTH
STA 956+00 SOUTH

SAW CUT (INCLUDED IN THE COST OF
HMA SURFACE REMOVAL-BUTT JOINT)



SECTION A-A

MODEL: PLOT
FILE NAME: C:\DOT\1359-13_78833\CADD\Highway\CADD Sheets\0978833-shr-detail65.dgn



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PLOT DATE = 8/9/2024	DATE - 10/23	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BUTT JOINT DETAILS

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
328	1058-3	WHITE	71	33
CONTRACT NO. 78833				
ILLINOIS FED. AID PROJECT				

MODEL PLOT
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ESCA PROJECT NO.	1359.13
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PLOT DATE	= 8/9/2024

DESIGNED -	IRC
DRAWN -	IRC
CHECKED -	ELH
DATE -	10/23

REVISED -	
REVISED -	
REVISED -	
REVISED -	

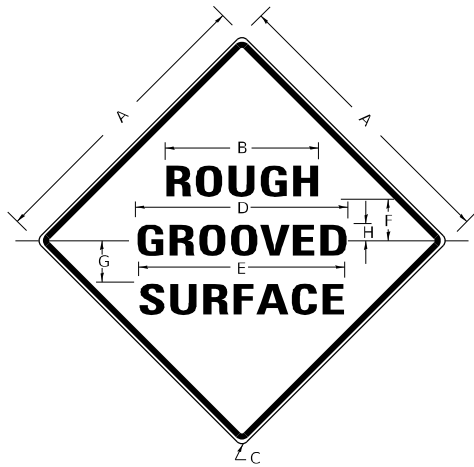
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUGH GROOVED SURFACE SIGN
& UNEVEN LANES SIGN DETAILS

SCALE: NONE	SHEET NO. 1 OF 1 SHEETS	STA. TO STA.
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F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
328	1058-3	WHITE	71	34
CONTRACT NO. 78833				
ILLINOIS FED. AID PROJECT				

ILLINOIS STANDARD



COLORS:

LEGEND AND BORDER- BLACK NON-REFLECTORIZED
BACKGROUND- ORANGE REFLECTORIZED

SIGN SIZE	DIMENSIONS							
	A	B	C	D	E	F	G	H
48X48	48.0	24.1	3.0	34.0	33.0	6.0	13.0	3.5

SIGN SIZE	SERIES LINES			MAR-GIN	BOR-DER	BLANK STD.
	1	2	3			
48X48	7C	7C	7C	0.8	1.2	B4-48D

ALL DIMENSIONS IN INCHES

NOTES:

PRIOR TO ALLOWING TRAFFIC ON ANY PORTION OF THE ROADWAY THAT HAS BEEN COLDMILLED, THE CONTRACTOR SHALL HAVE ERECTED "ROUGH GROOVED SURFACE" SIGNS THAT CONFORM TO THE ABOVE DETAILS. A MINIMUM OF ONE SIGN AT EACH END OF THE IMPROVEMENT WILL BE REQUIRED. THE CONTRACTOR SHALL MAINTAIN THE "ROUGH GROOVED SURFACE" SIGNS UNTIL THE COLDMILLED SURFACE IS COVERED WITH LEVELING BINDER OR SURFACE COURSE.

IF AT ANY TIME THE SIGNS ARE IN PLACE BUT NOT APPLICABLE, THEY SHALL BE TURNED FROM THE VIEW OF MOTORISTS OR COVERED AS DIRECTED BY THE ENGINEER.

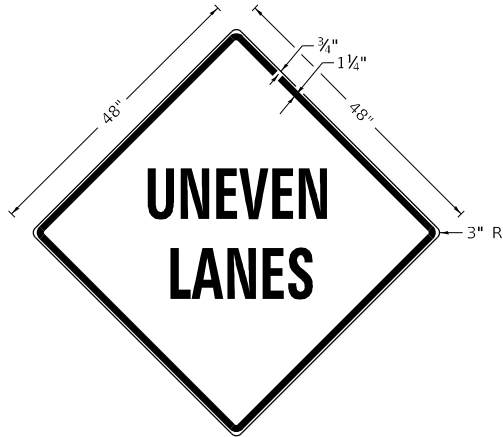
THE COST OF FURNISHING, ERECTING, MAINTAINING, AND REMOVING THE REQUIRED SIGNS SHALL BE INCLUDED IN THE CONTRACT.

STD. 9-39

REVISIONS	
REDRAWN	2-15-89
REVISED	4-6-93
REVISED	3-27-08
REVIEWED	5-17-13
REVISED	10-21-21

UNEVEN LANES SIGN

W8-11 (48" x 48")



COLORS:

LEGEND AND BORDER - BLACK NON-REFLECTORIZED
BACKGROUND - ORANGE REFLECTORIZED

NOTE: PRIOR TO ALLOWING TRAFFIC ON ANY PORTION OF THE ROADWAY THAT HAS BEEN COLDMILLED OR BEFORE RESURFACING OPERATIONS BEGIN, THE CONTRACTOR SHALL HAVE ERECTED "UNEVEN LANES" SIGNS THAT CONFORM TO THE ABOVE DETAILS. A MINIMUM OF ONE SIGN AT EACH END OF THE IMPROVEMENT WILL BE REQUIRED. THE CONTRACTOR SHALL MAINTAIN THE "UNEVEN LANES" SIGNS UNTIL THE RESURFACING OPERATIONS ARE COMPLETED.

IF AT ANY TIME THE SIGNS ARE IN PLACE BUT NOT APPLICABLE, THEY SHALL BE TURNED FROM THE VIEW OF MOTORISTS OR COVERED AS DIRECTED BY THE ENGINEER.

THE COST OF FURNISHING, ERECTING, MAINTAINING, AND REMOVING THE REQUIRED SIGNS SHALL BE INCLUDED IN THE CONTRACT.

STD. 9-41

REVISIONS	
DRAWN	2-15-89
REVISED	4-06-93
REDSIGNED	7-23-04
RESIZED	5-08-08
REVIEWED	5-17-13
REVISED	10-21-21

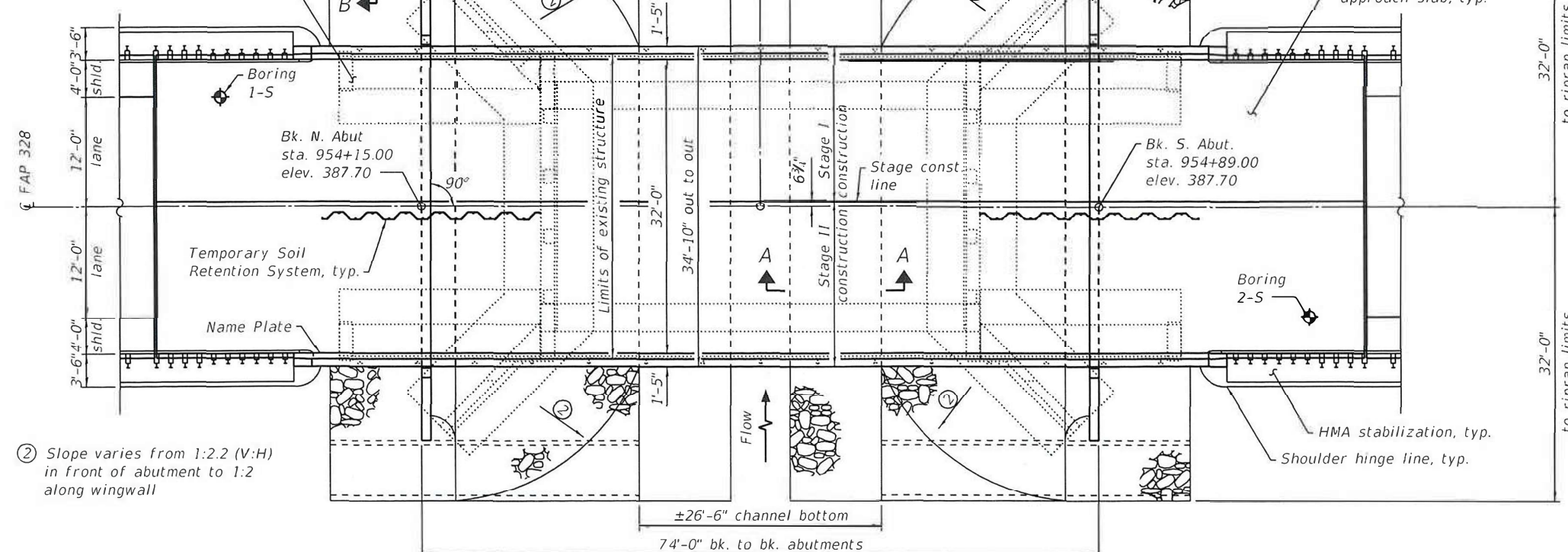
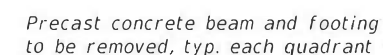
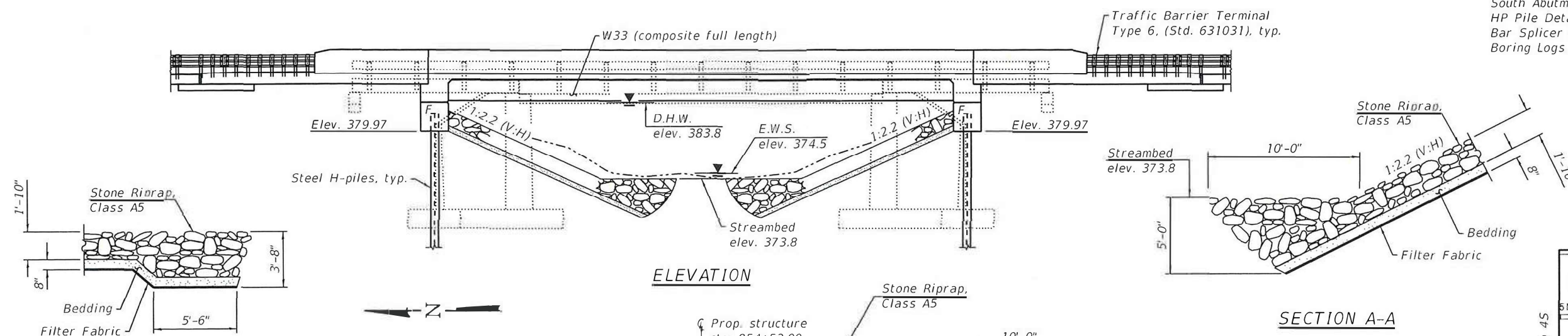
No salvage.

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

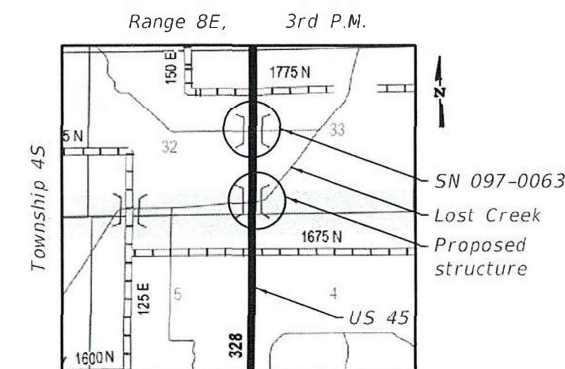
DESIGN STRESSES FIELD UNITS

STRUCTURE INDEX OF SHEETS

General Plan & Elevation	Sheet 1 of 24
General Data	Sheet 2 of 24
Stage Construction Details	Sheet 3 of 24
Temporary Soil Retention System	Sheet 4 of 24
Temporary Concrete Barrier	Sheet 5 of 24
Top of Slab Elevations	Sheet 6 of 24
Top of North Approach Slab Elevations	Sheet 7 of 24
Top of South Approach Slab Elevations	Sheet 8 of 24
Superstructure	Sheet 9 of 24
Superstructure Details	Sheet 10 of 24
Diaphragm Details	Sheet 11 of 24
Bridge Approach Slab Details	Sheet 12-13 of 24
Steel Framing Plan and Details	Sheet 14 of 24
Framing Details	Sheet 15-16 of 24
Bearing Details	Sheet 17 of 24
North Abutment	Sheet 18 of 24
South Abutment	Sheet 19 of 24
HP Pile Details	Sheet 20 of 24
Bar Splicer Assembly Details	Sheet 21 of 24
Boring Logs	Sheet 22-24 of 24



PLAN



LOCATION SKETCH



EXPIRES 11-30-24

SIGNATURE

04-17-2024
DATE

APPROVED
For Structural Adequacy Only
James F. Schindler
Engineer of Bridges & Structures

GENERAL PLAN & ELEVATION
US 45 OVER LOST CREEK
FAP ROUTE 328 - SECTION 105B-3
WHITE COUNTY
STATION 954+52.00
STRUCTURE NO. 097-0083

REV - MS

ESCA
CONSULTANTS, INC.
DRILL • PILEDRIVING • SOIL REMEDIATION

USER NAME = jec	DESIGNED = ELH	01/24	REVISED =
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PLOT SCALE = 0.1667' = 1 in.	DRAWN = NHC	01/24	REVISED =
PLOT DATE = 4/15/2024	CHECKED = ELH	01/24	REVISED =

DESIGNED	ELH	01/24	REVISED
CHECKED	CTJ	01/24	REVISED
DRAWN	NHC	01/24	REVISED
CHECKED	ELH	01/24	REVISED

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GENERAL PLAN AND ELEVATION

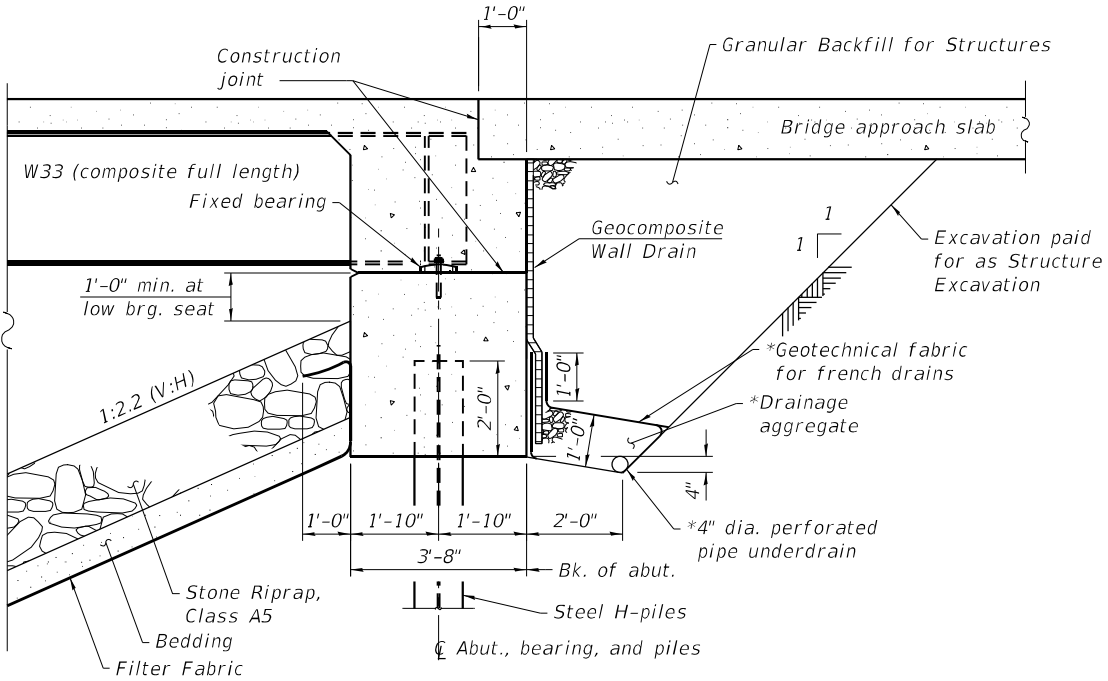
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
328	105B-3	WHITE	71	35
		CONTRACT NO. 78833		
ILLINOIS GEO. PROJECT				

GENERAL NOTES

1. Fasteners shall be ASTM F3125 Grade A325 Type 1, hot dip galvanized bolts in metallized areas. Bolts 3/4 in. dia., holes 1 1/16 in. dia., unless otherwise noted. See Special Provision for "Metallizing of Structural Steel."
2. Calculated weight of Structural Steel = 57,030 lbs. (Grade 50)
= 6,430 lbs. (Grade 36)
3. All structural steel shall be metallized. See Special Provision for "Metallizing of Structural Steel."
4. No field welding is permitted except as specified in the contract documents.
5. Reinforcement bars designated (E) shall be epoxy coated.
6. Slipforming of the parapets is not allowed.
7. 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.
8. Layout of the slope protection system may be varied to suit ground conditions in the field as directed by the Engineer.
9. Removal of the existing bridge rail and precast concrete beams and footings at each quadrant of the bridge approaches is included in Removal of Existing Structures.
10. The bridge approach slabs and pavement connectors shall receive Bridge Deck Grooving.
11. The tops and inside faces of curbs and parapets and the bridge deck and bridge approach slabs shall receive Protective Coat. See Roadway Plans for treatment of pavement connectors.
12. Excavation behind existing abutment walls shall be performed to balance front and back soil pressure before removing the existing superstructure. The Contractor shall sawcut the upper portion of the existing abutment at the stage removal line before Stage I removal to ensure the remaining portion will not be prematurely damaged.

STA. 954+52.00
BUILT 20__ BY
STATE OF ILLINOIS
F.A.P. RT. 328 SEC. 105B-3
LOADING HL-93
STR. NO. 097-0083

NAME PLATE
See Std. 515001



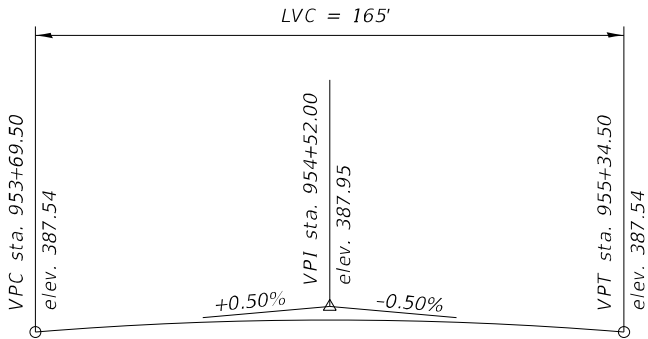
SECTION THROUGH INTEGRAL ABUTMENT

*Included in the cost of Pipe Underdrains for Structures.

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).

DESIGN SCOUR ELEVATION TABLE

Event / Limit	Design Scour Elevations (ft.)		
	State	N. Abut.	S. Abut.
Q100		380.0	380.0
Q200		380.0	380.0
Design		380.0	380.0
Check		380.0	380.0



PROFILE GRADE
(Along C FAP 328)

WATERWAY INFORMATION TABLE

Drainage Area = 17.65 sq. mi.							Existing Overtopping Elev. 385.38 at Sta. 945+00 Proposed Overtopping Elev. 385.38 at Sta. 945+00				
Flood Event	Freq. Yr.		Discharge (cfs)		Waterway Opening (sq. ft.)		Natural H.W.E.	Head (ft.)		Headwater Elevation	
			Existing	Proposed	Existing	Proposed		Existing	Proposed	Existing	Proposed
	10	Main Channel	2533	2511	345	382	383.2	1.7	1.8	384.9	385.0
		Relief Structure	777	799	162	162					
		TOTAL	3310	3310	507	544					
Existing Overtopping	13	Main Channel	2849	-	350	-	383.3	2.1	-	385.4	-
		Relief Structure	838	-	165	-					
		TOTAL	3687	-	515	-					
Proposed Overtopping	35	Main Channel	-	3040	-	414	383.7	-	1.7	-	385.4
		Relief Structure	-	1917	-	174					
		TOTAL	-	4957	-	588					
Design	50	Main Channel	3661	3363	370	420	383.8	2.0	1.6	385.8	385.4
		Relief Structure	1659	1957	180	180					
		TOTAL	5320	5320	550	600					
Base	100	Main Channel	3758	3027	370	428	384.1	2.0	1.5	386.1	385.6
		Relief Structure	2462	3193	183	183					
		TOTAL	6220	6220	553	611					
Scour Design Check	200	Main Channel	4326	3538	370	428	384.3	1.8	1.4	386.1	385.7
		Relief Structure	2865	3653	183	183					
		TOTAL	7191	7191	553	611					

10 year velocity through existing bridge = 10.7 ft/s
10 year velocity through proposed bridge = 10.3 ft/s

TOTAL BILL OF MATERIAL

ITEM	UNIT	SUPER	SUB	TOTAL
Stone Riprap, Class A5	Sq. Yd.	-	592	592
Filter Fabric	Sq. Yd.	-	592	592
Removal of Existing Structures	Each	-	-	1
Structure Excavation	Cu. Yd.	-	250	250
Concrete Structures	Cu. Yd.	-	65.0	65.0
Concrete Superstructure	Cu. Yd.	120.8	-	120.8
Bridge Deck Grooving	Sq. Yd.	540	-	540
Protective Coat	Sq. Yd.	570	-	570
Concrete Superstructure (Approach Slab)	Cu. Yd.	95.0	-	95.0
Furnishing and Erecting Structural Steel	L Sum	1	-	1
Stud Shear Connectors	Each	1,314	-	1,314
Reinforcement Bars, Epoxy Coated	Pound	57,730	11,350	69,080
Bar Terminator	Each	214	352	566
Bar Splicers	Each	434	100	534
Furnishing Steel Piles HP12x63	Foot	-	555	555
Driving Piles	Foot	-	555	555
Test Pile Steel HP12x63	Each	-	2	2
Pile Shoes	Each	-	12	12
Name Plates	Each	1	-	1
Anchor Bolts, 1"	Each	-	24	24
Temporary Soil Retention System	Sq. Ft.	-	338	338
Granular Backfill for Structures	Cu. Yd.	-	115	115
Geocomposite Wall Drain	Sq. Yd.	-	62	62
Pipe Underdrains for Structures 4"	Foot	-	154	154

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PLOT DATE = 4/16/2024

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CHECKED - CTJ 01/24
DRAWN - NHC 04/24
CHECKED - ELH 04/24

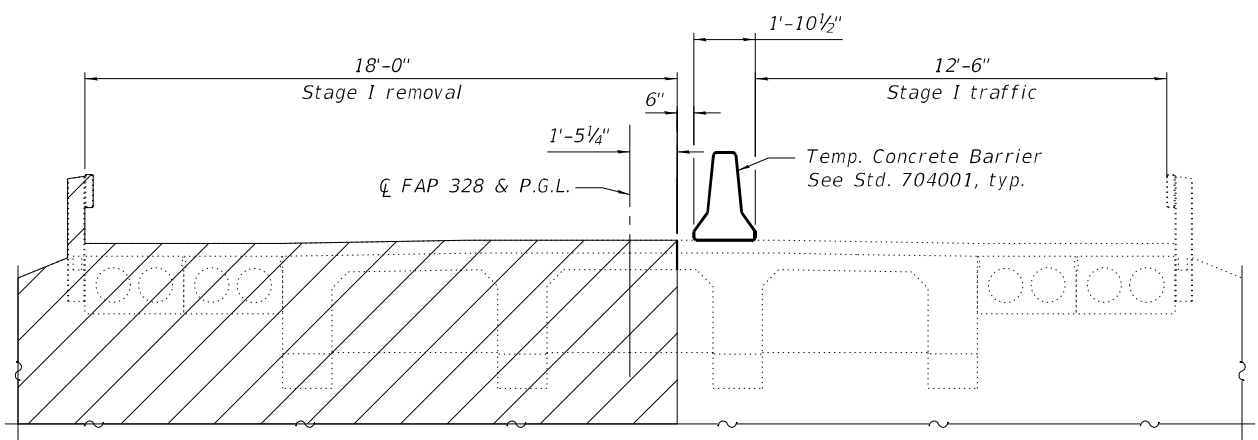
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REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

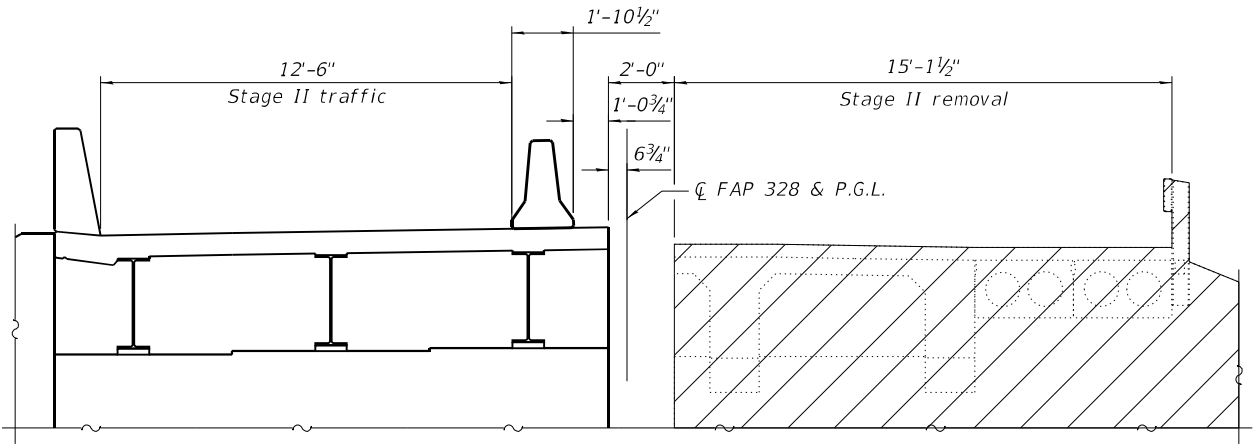
GENERAL DATA
STRUCTURE NO. 097-0083

SHEET 2 OF 24 SHEETS

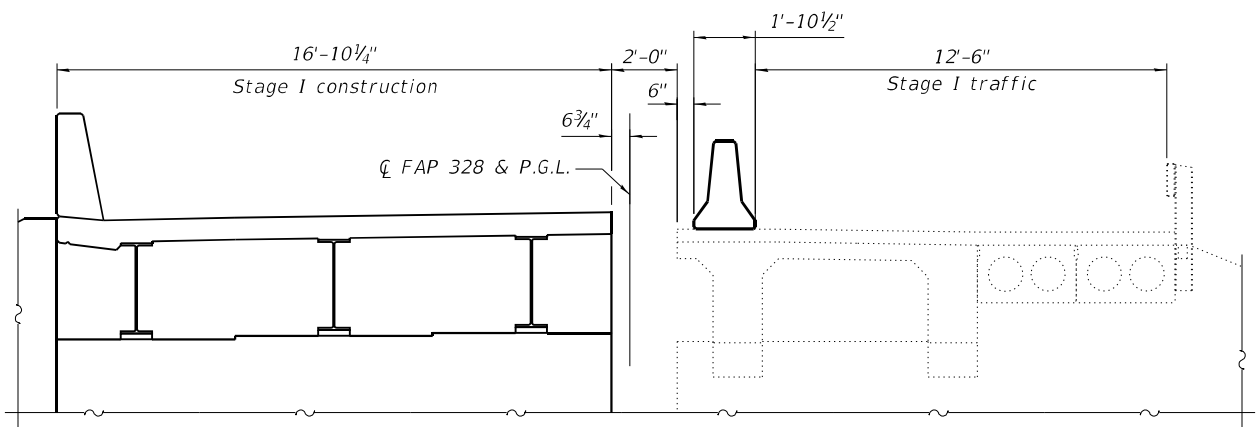
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
328	105B-3	WHITE	71	36
CONTRACT NO. 78833				
ILLINOIS FED. AID PROJECT				



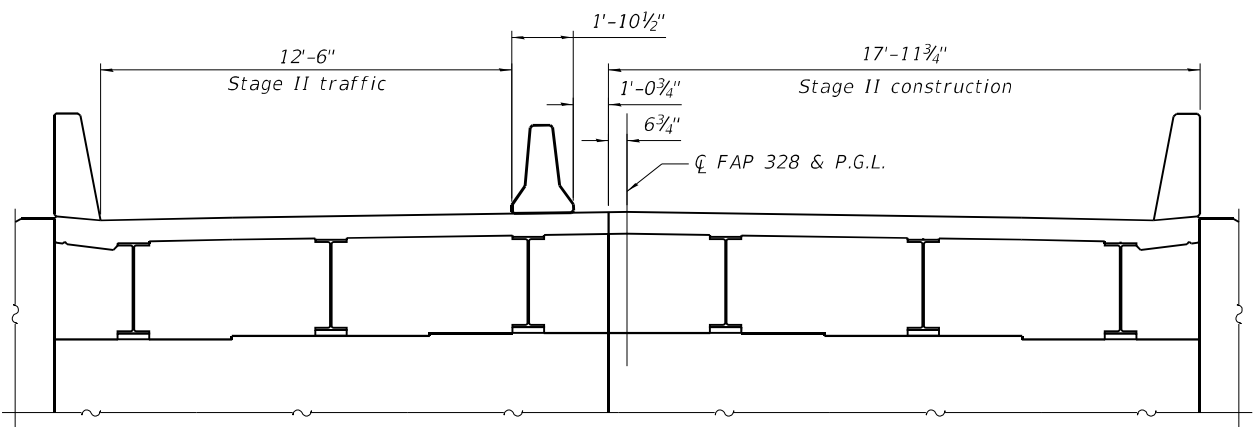
STAGE I REMOVAL
(Looking South)



STAGE II REMOVAL
(Looking South)



STAGE I CONSTRUCTION
(Looking South)



STAGE II CONSTRUCTION
(Looking South)

- Notes:
- 1. Hatched areas indicate Removal of Existing Structures.
 - 2. For quantity of Temporary Concrete Barrier, see Roadway Plans.
 - 3. Cost of removing existing steel bridge rail is included in Removal of Existing Structures.

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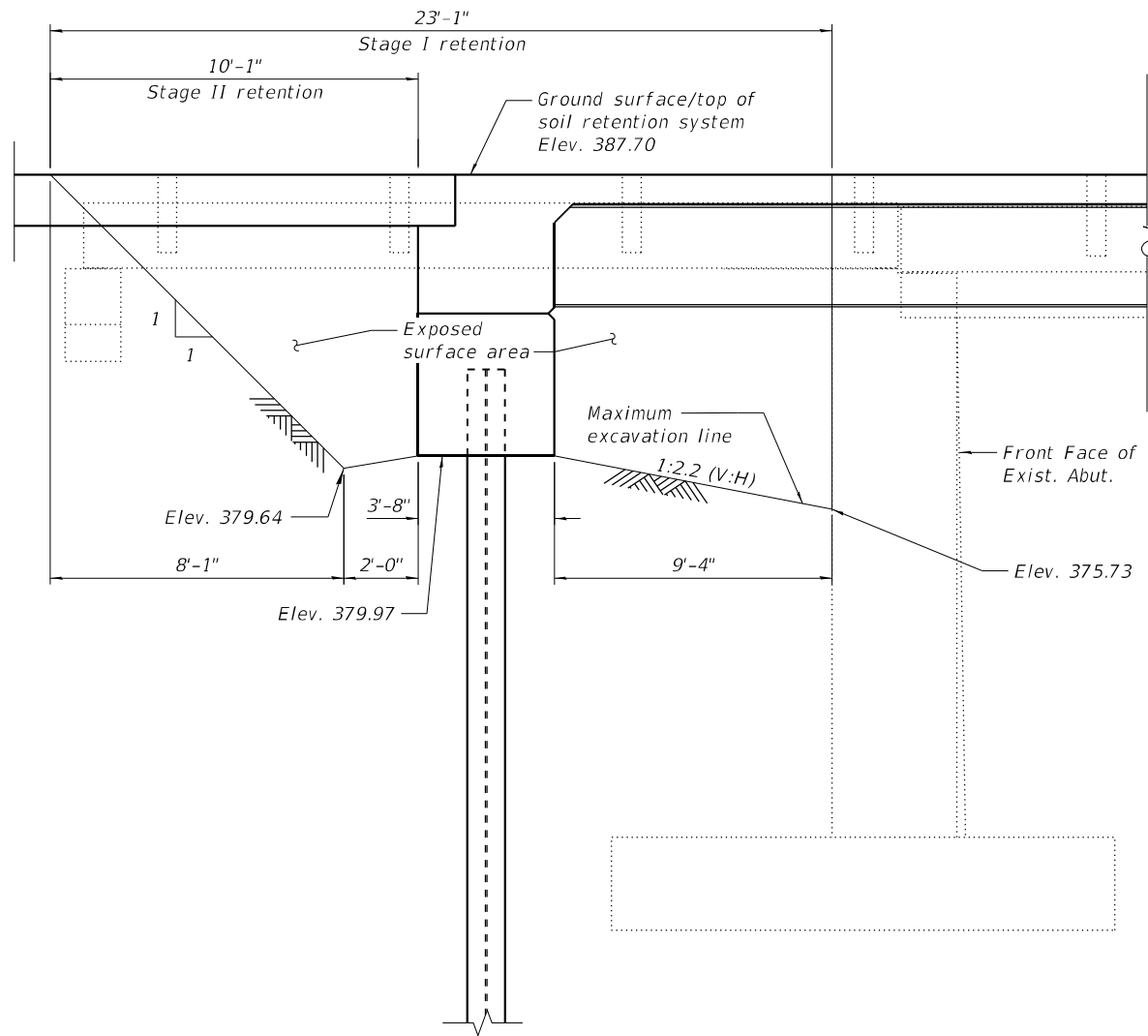
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

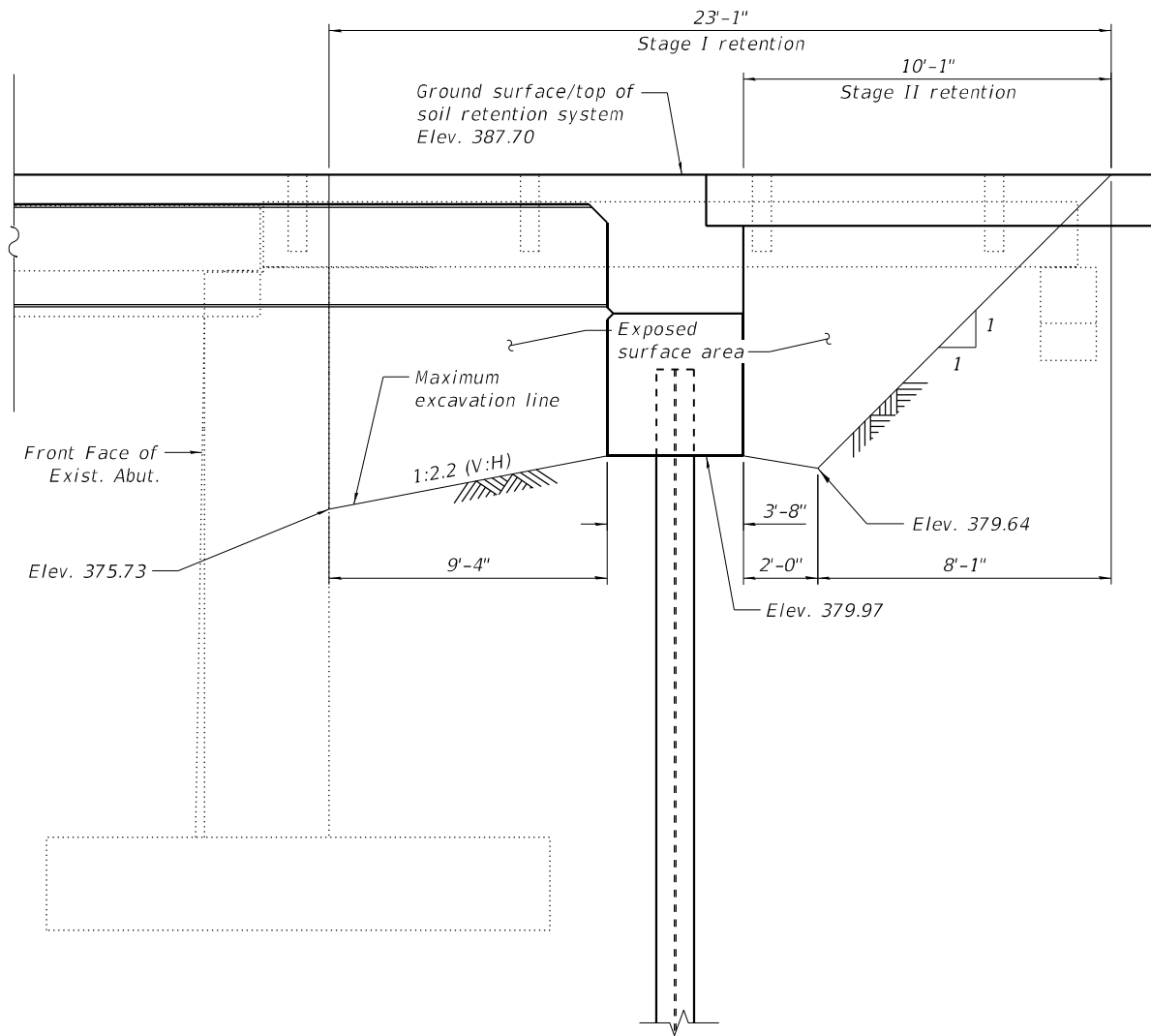
STAGE CONSTRUCTION DETAILS
STRUCTURE NO. 097-0083

SHEET 3 OF 24 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
328	105B-3	WHITE	71	37
CONTRACT NO. 78833				
ILLINOIS FED. AID PROJECT				



NORTH ABUTMENT



SOUTH ABUTMENT

Notes:

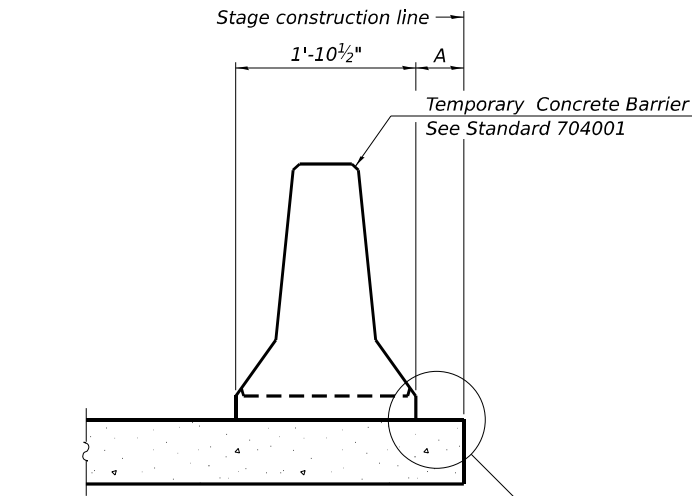
1. A cantilevered sheet piling design does not appear feasible and additional members or other retention systems may be necessary. The Contractor shall submit a temporary soil retention system design including plan details and calculations for review and acceptance by the Engineer.
2. Elevations and dimensions shown are approximate based on existing plan data. Exact elevations and dimensions required shall be field verified by the Contractor.

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**TEMPORARY SOIL RETENTION SYSTEM
STRUCTURE NO. 097-0083**

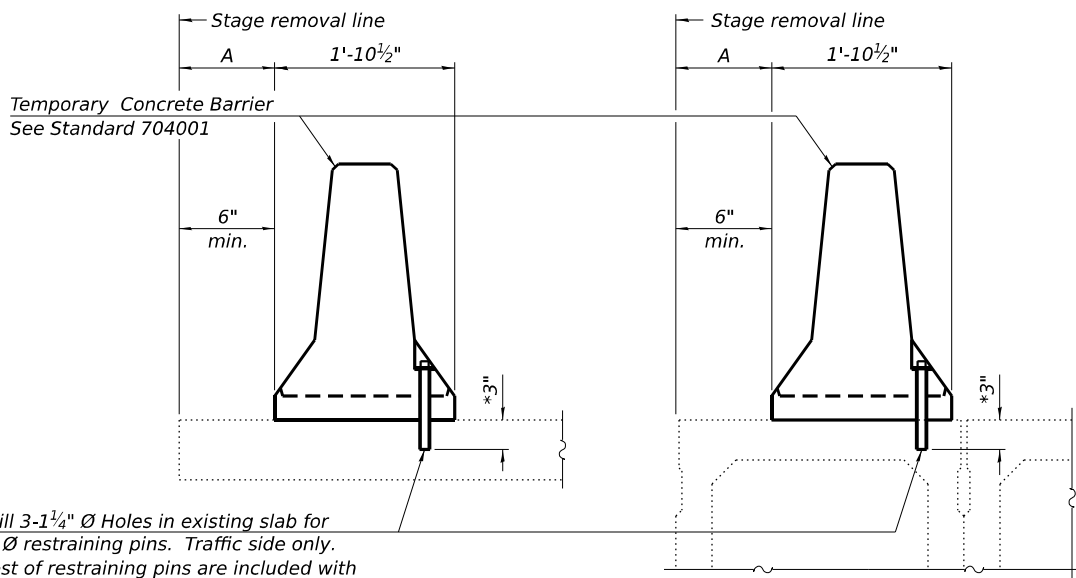
SHEET 4 OF 24 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
328	105B-3	WHITE	71	38
CONTRACT NO. 78833				
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

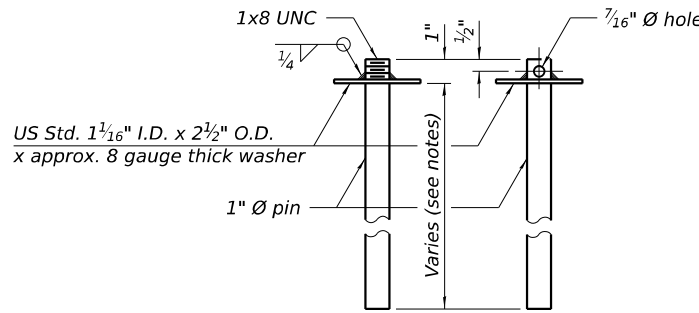


Drill 3-1 1/4" Ø Holes in existing slab for 1" Ø restraining pins. Traffic side only. Cost of restraining pins are included with Temporary Concrete Barrier. No restraint is required when "A" is greater than 3'-1".

EXISTING SLAB

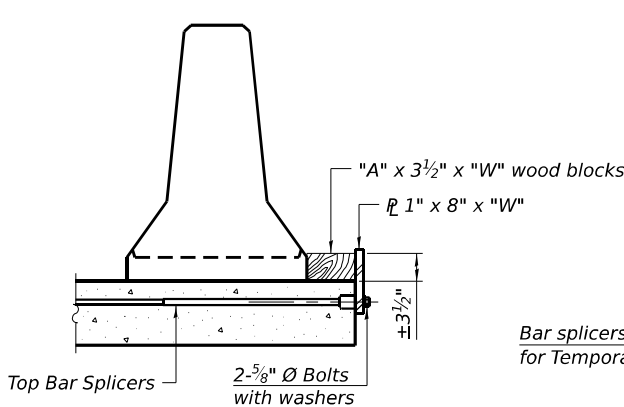
* When hot-mix asphalt wearing surface is present, embedment shall be 3" plus the wearing surface depth.

EXISTING DECK BEAM

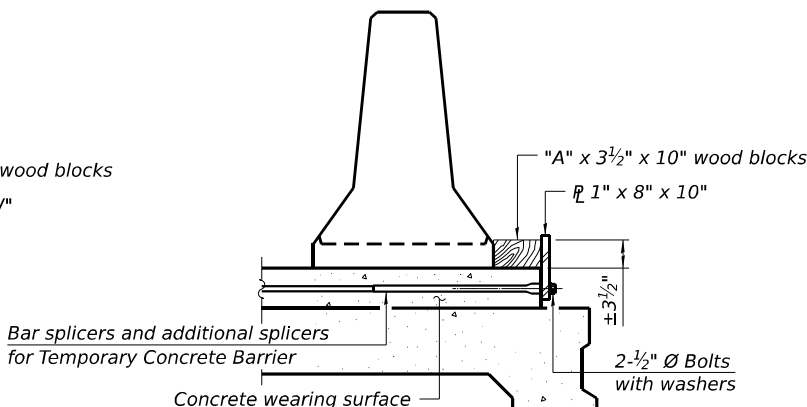


RESTRAINING PIN

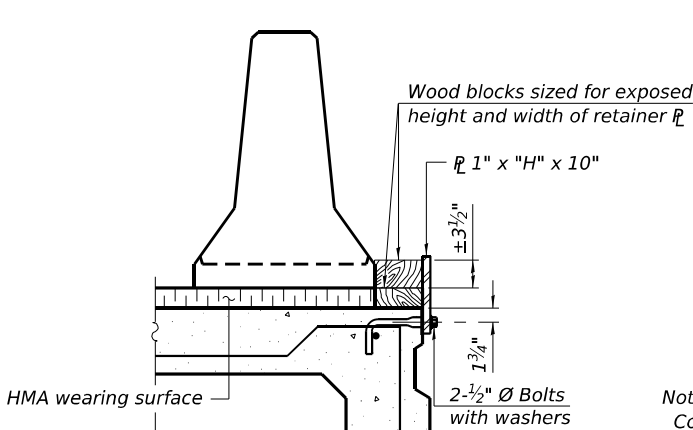
SECTIONS THRU SLAB OR DECK BEAM



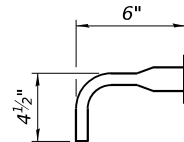
DETAIL I



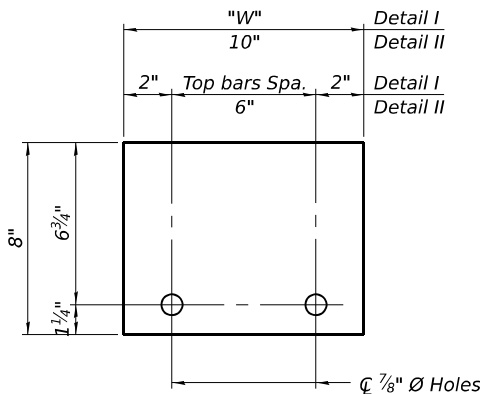
DETAIL II



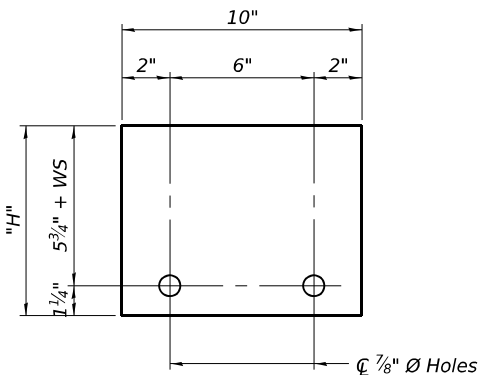
DETAIL III



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.

RAILING CRITERIA

NCHRP 350 Test Level	3
Railing Weight (plf)	440

R-27

5-15-2023

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PLOT DATE	= 2/2/2024

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CHECKED	- CTJ	01/24	REVISED	-
DRAWN	- NHC	01/24	REVISED	-
CHECKED	- ELH	01/24	REVISED	-

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TEMPORARY CONCRETE BARRIER
STRUCTURE NO. 097-0083

SHEET 5 OF 24 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
328	105B-3	WHITE	71	39
CONTRACT NO. 78833				
ILLINOIS FED. AID PROJECT				

BEAM 1				
Location	Station	Offset (ft.)	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. N. Abut.	954+15.00	-15.00	387.46	387.46
☐ Brg. N. Abut.	954+16.83	-15.00	387.47	387.47
A	954+26.83	-15.00	387.49	387.56
B	954+36.83	-15.00	387.50	387.63
C	954+46.83	-15.00	387.51	387.67
D	954+56.83	-15.00	387.51	387.67
E	954+66.83	-15.00	387.50	387.63
F	954+76.83	-15.00	387.49	387.56
☐ Brg. S. Abut.	954+87.17	-15.00	387.47	387.47
Bk. S. Abut.	954+89.00	-15.00	387.46	387.46

BEAM 2				
Location	Station	Offset (ft.)	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. N. Abut.	954+15.00	-9.00	387.57	387.57
☐ Brg. N. Abut.	954+16.83	-9.00	387.57	387.57
A	954+26.83	-9.00	387.59	387.66
B	954+36.83	-9.00	387.60	387.73
C	954+46.83	-9.00	387.61	387.77
D	954+56.83	-9.00	387.61	387.77
E	954+66.83	-9.00	387.60	387.74
F	954+76.83	-9.00	387.59	387.67
☐ Brg. S. Abut.	954+87.17	-9.00	387.57	387.57
Bk. S. Abut.	954+89.00	-9.00	387.57	387.57

BEAM 3				
Location	Station	Offset (ft.)	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. N. Abut.	954+15.00	-3.00	387.66	387.66
☐ Brg. N. Abut.	954+16.83	-3.00	387.66	387.66
A	954+26.83	-3.00	387.68	387.75
B	954+36.83	-3.00	387.69	387.82
C	954+46.83	-3.00	387.70	387.86
D	954+56.83	-3.00	387.70	387.86
E	954+66.83	-3.00	387.69	387.83
F	954+76.83	-3.00	387.68	387.76
☐ Brg. S. Abut.	954+87.17	-3.00	387.66	387.66
Bk. S. Abut.	954+89.00	-3.00	387.66	387.66

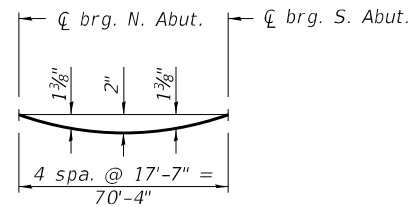
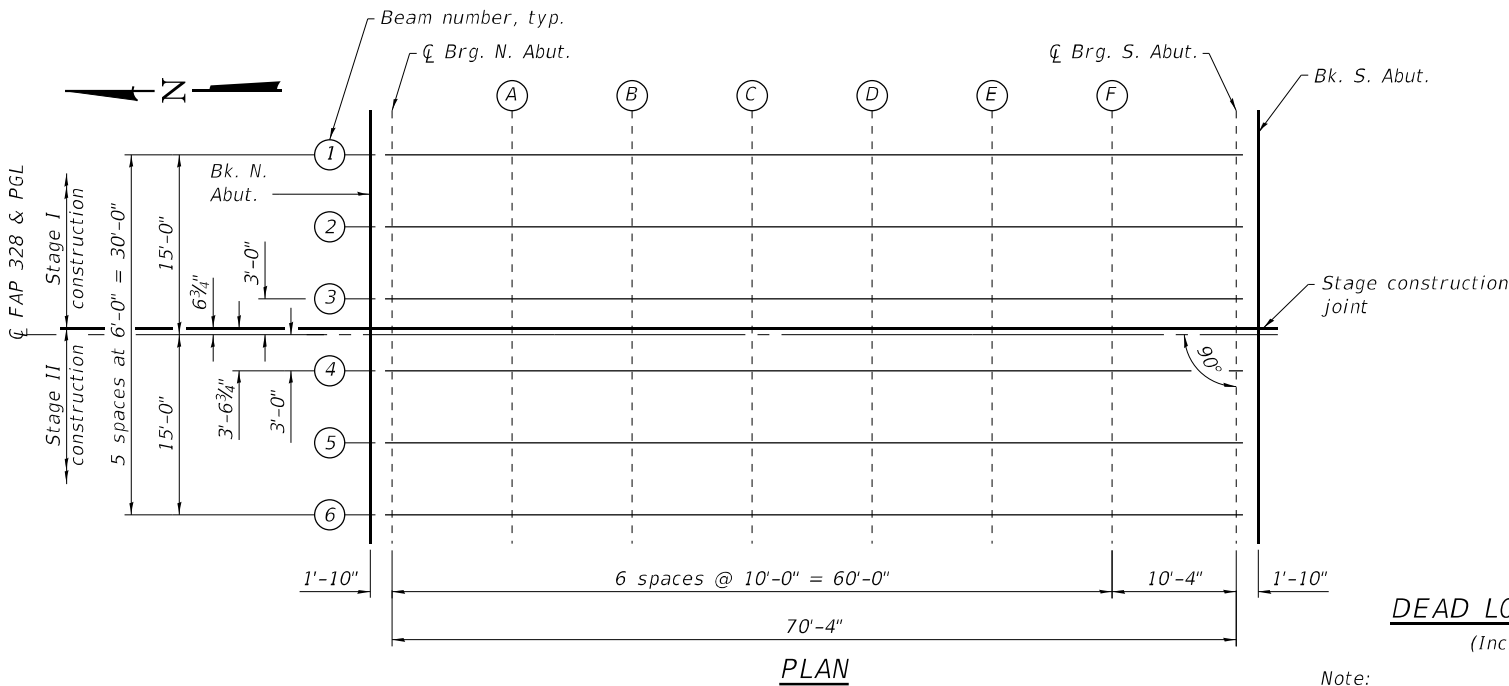
STAGE CONSTRUCTION JOINT				
Location	Station	Offset (ft.)	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
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☐ Brg. N. Abut.	954+16.83	-0.56	387.70	387.70
A	954+26.83	-0.56	387.72	387.79
B	954+36.83	-0.56	387.73	387.86
C	954+46.83	-0.56	387.74	387.90
D	954+56.83	-0.56	387.74	387.90
E	954+66.83	-0.56	387.73	387.86
F	954+76.83	-0.56	387.72	387.79
☐ Brg. S. Abut.	954+87.17	-0.56	387.70	387.70
Bk. S. Abut.	954+89.00	-0.56	387.70	387.70

☐ ROADWAY & PROFILE GRADE LINE				
Location	Station	Offset (ft.)	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
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☐ Brg. N. Abut.	954+16.83	0.00	387.71	387.71
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B	954+36.83	0.00	387.74	387.87
C	954+46.83	0.00	387.75	387.91
D	954+56.83	0.00	387.75	387.91
E	954+66.83	0.00	387.74	387.87
F	954+76.83	0.00	387.73	387.80
☐ Brg. S. Abut.	954+87.17	0.00	387.71	387.71
Bk. S. Abut.	954+89.00	0.00	387.70	387.70

BEAM 4				
Location	Station	Offset (ft.)	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. N. Abut.	954+15.00	3.00	387.66	387.66
☐ Brg. N. Abut.	954+16.83	3.00	387.66	387.66
A	954+26.83	3.00	387.68	387.75
B	954+36.83	3.00	387.69	387.82
C	954+46.83	3.00	387.70	387.86
D	954+56.83	3.00	387.70	387.86
E	954+66.83	3.00	387.69	387.83
F	954+76.83	3.00	387.68	387.76
☐ Brg. S. Abut.	954+87.17	3.00	387.66	387.66
Bk. S. Abut.	954+89.00	3.00	387.66	387.66

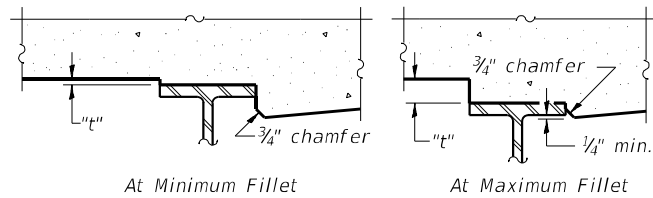
BEAM 5				
Location	Station	Offset (ft.)	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. N. Abut.	954+15.00	9.00	387.57	387.57
☐ Brg. N. Abut.	954+16.83	9.00	387.57	387.57
A	954+26.83	9.00	387.59	387.66
B	954+36.83	9.00	387.60	387.73
C	954+46.83	9.00	387.61	387.77
D	954+56.83	9.00	387.61	387.77
E	954+66.83	9.00	387.60	387.74
F	954+76.83	9.00	387.59	387.67
☐ Brg. S. Abut.	954+87.17	9.00	387.57	387.57
Bk. S. Abut.	954+89.00	9.00	387.57	387.57

BEAM 6				
Location	Station	Offset (ft.)	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. N. Abut.	954+15.00	15.00	387.46	387.46
☐ Brg. N. Abut.	954+16.83	15.00	387.47	387.47
A	954+26.83	15.00	387.49	387.56
B	954+36.83	15.00	387.50	387.63
C	954+46.83	15.00	387.51	387.67
D	954+56.83	15.00	387.51	387.67
E	954+66.83	15.00	387.50	387.63
F	954+76.83	15.00	387.49	387.56
☐ Brg. S. Abut.	954+87.17	15.00	387.47	387.47
Bk. S. Abut.	954+89.00	15.00	387.46	387.46



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 this 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 this sheet, minus slab thickness, equals the fillet heights "t" above top flange of beams.

FILLET HEIGHTS

MODEL: PLOT
FILE NAME: Y:\DOT\1359-13_78833\CADD\SP SN 097-0083\0970083-78833-06-Topo\5lab.dgn



USER NAME = nhc
ESCA PROJECT NO. 1359.13
PLOT SCALE = 0:2 1/4" = 1 in.
PLOT DATE = 6/5/2024

DESIGNED - CTJ 02/24
CHECKED - ELH 02/24
DRAWN - NHC 04/24
CHECKED - ELH 04/24

REVISED -
REVISED -
REVISED -
REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TOP OF SLAB ELEVATIONS
STRUCTURE NO. 097-0083

SHEET 6 OF 24 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
328	105B-3	WHITE	71	40
CONTRACT NO. 78833				
ILLINOIS FED. AID PROJECT				

EAST EDGE OF SHOULDER			
Location	Station	Offset	Theoretical Grade Elevations
N. End of N. Appr. Slab	953+86.00	-16.00	387.35
A1	953+96.00	-16.00	387.39
A2	954+06.00	-16.00	387.42
S. End of N. Appr. Slab	954+16.00	-16.00	387.44

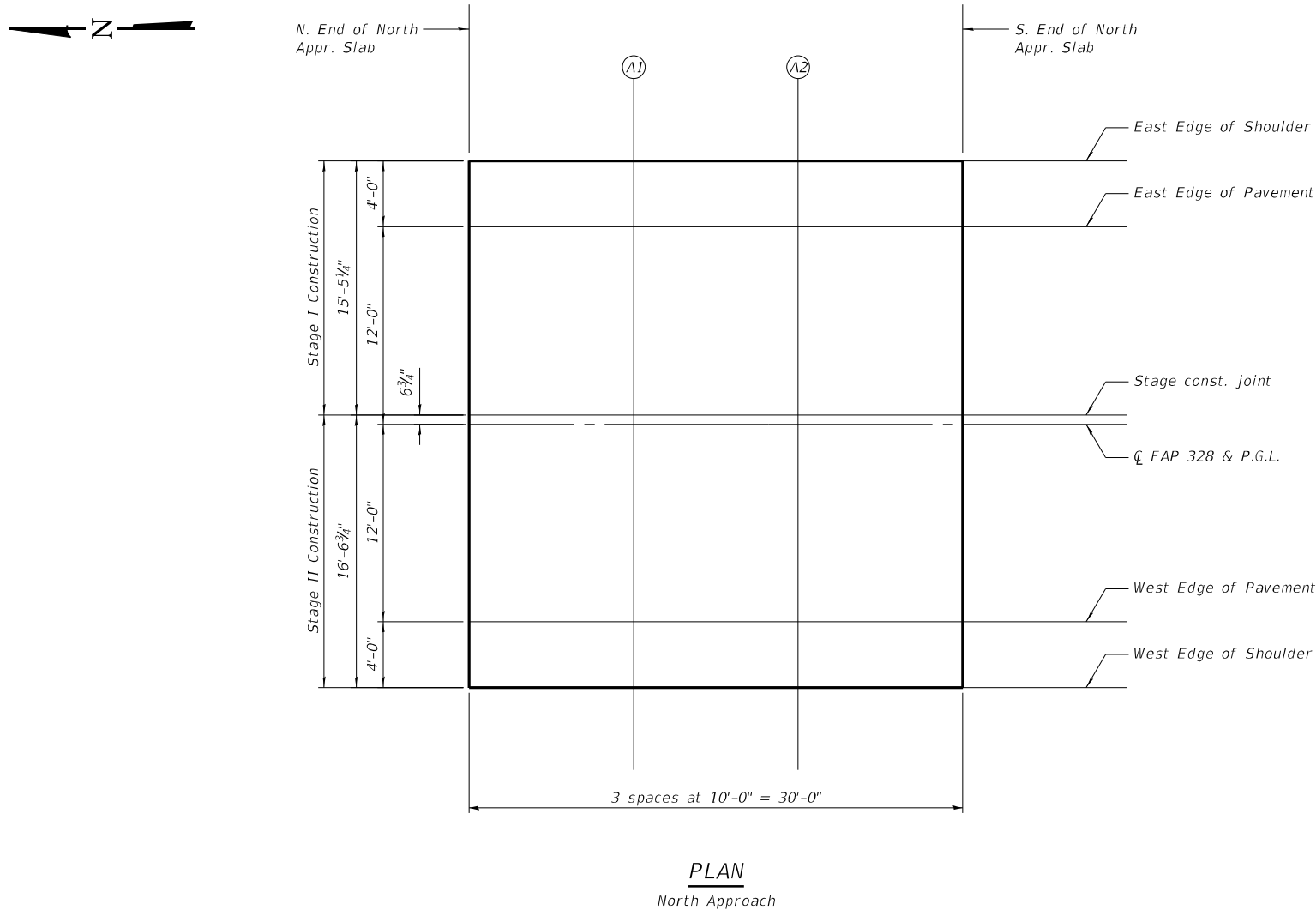
EAST EDGE OF PAVEMENT			
Location	Station	Offset	Theoretical Grade Elevations
N. End of N. Appr. Slab	953+86.00	-12.00	387.43
A1	953+96.00	-12.00	387.47
A2	954+06.00	-12.00	387.50
S. End of N. Appr. Slab	954+16.00	-12.00	387.52

STAGE CONST. JOINT			
Location	Station	Offset	Theoretical Grade Elevations
N. End of N. Appr. Slab	953+86.00	-0.56	387.60
A1	953+96.00	-0.56	387.64
A2	954+06.00	-0.56	387.67
S. End of N. Appr. Slab	954+16.00	-0.56	387.70

CL FAP 328 & P.G.L			
Location	Station	Offset	Theoretical Grade Elevations
N. End of N. Appr. Slab	953+86.00	0.00	387.61
A1	953+96.00	0.00	387.65
A2	954+06.00	0.00	387.68
S. End of N. Appr. Slab	954+16.00	0.00	387.70

WEST EDGE OF PAVEMENT			
Location	Station	Offset	Theoretical Grade Elevations
N. End of N. Appr. Slab	953+86.00	12.00	387.43
A1	953+96.00	12.00	387.47
A2	954+06.00	12.00	387.50
S. End of N. Appr. Slab	954+16.00	12.00	387.52

WEST EDGE OF SHOULDER			
Location	Station	Offset	Theoretical Grade Elevations
N. End of N. Appr. Slab	953+86.00	16.00	387.35
A1	953+96.00	16.00	387.39
A2	954+06.00	16.00	387.42
S. End of N. Appr. Slab	954+16.00	16.00	387.44



STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TOP OF NORTH APPROACH SLAB ELEVATIONS
STRUCTURE NO. 097-0083

SHEET 7 OF 24 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
328	105B-3	WHITE	71	41
CONTRACT NO. 78833				
ILLINOIS FED. AID PROJECT				

EAST EDGE OF SHOULDER			
Location	Station	Offset	Theoretical Grade Elevations
N. End of S. Appr. Slab	954+88.00	-16.00	387.44
A3	954+98.00	-16.00	387.42
A4	955+08.00	-16.00	387.39
S. End of S. Appr. Slab	955+18.00	-16.00	387.35

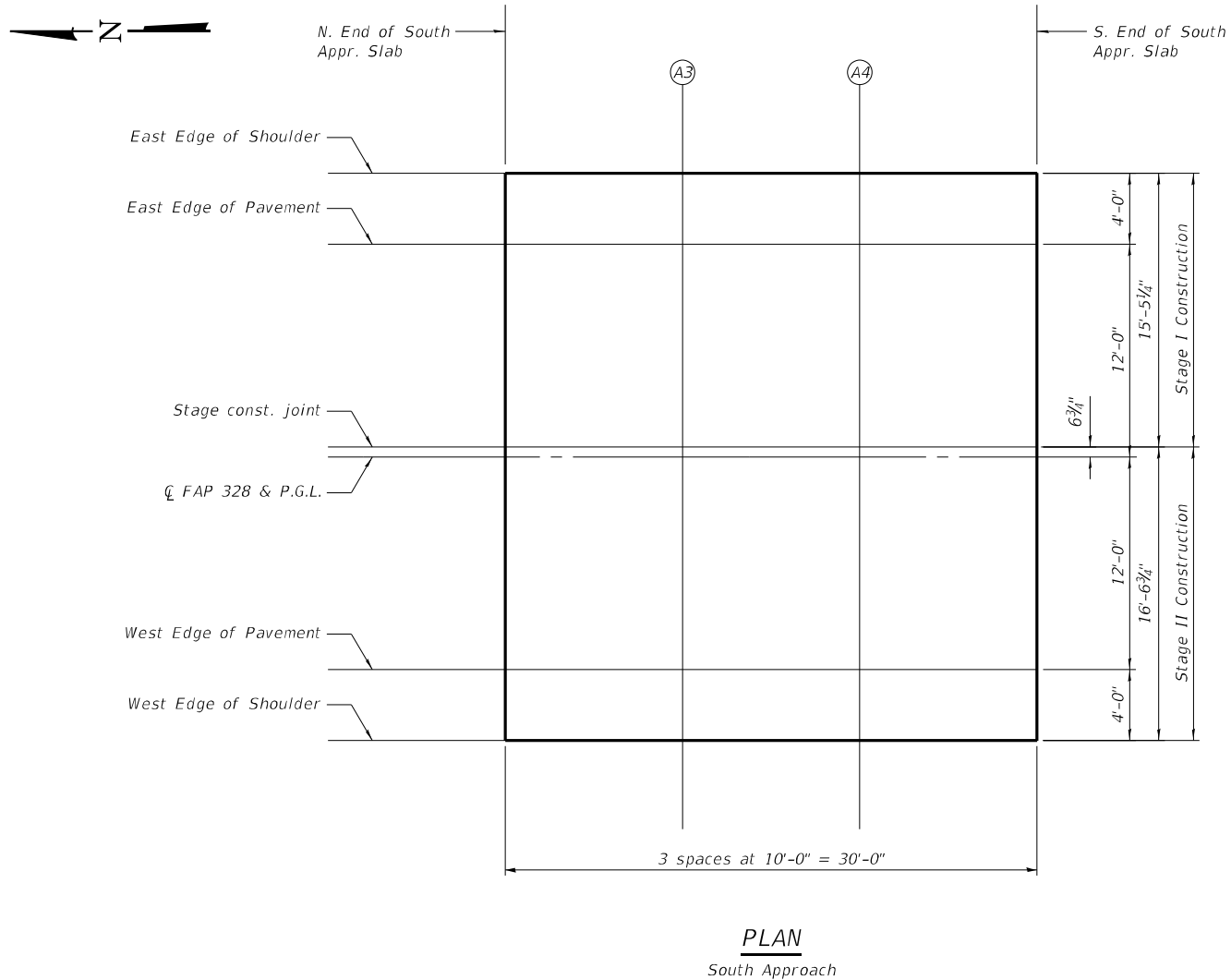
EAST EDGE OF PAVEMENT			
Location	Station	Offset	Theoretical Grade Elevations
N. End of S. Appr. Slab	954+88.00	-12.00	387.52
A3	954+98.00	-12.00	387.50
A4	955+08.00	-12.00	387.47
S. End of S. Appr. Slab	955+18.00	-12.00	387.43

STAGE CONST. JOINT			
Location	Station	Offset	Theoretical Grade Elevations
N. End of S. Appr. Slab	954+88.00	-0.56	387.70
A3	954+98.00	-0.56	387.67
A4	955+08.00	-0.56	387.64
S. End of S. Appr. Slab	955+18.00	-0.56	387.60

CL FAP 328 & P.G.L			
Location	Station	Offset	Theoretical Grade Elevations
N. End of S. Appr. Slab	954+88.00	0.00	387.70
A3	954+98.00	0.00	387.68
A4	955+08.00	0.00	387.65
S. End of S. Appr. Slab	955+18.00	0.00	387.61

WEST EDGE OF PAVEMENT			
Location	Station	Offset	Theoretical Grade Elevations
N. End of S. Appr. Slab	954+88.00	12.00	387.52
A3	954+98.00	12.00	387.50
A4	955+08.00	12.00	387.47
S. End of S. Appr. Slab	955+18.00	12.00	387.43

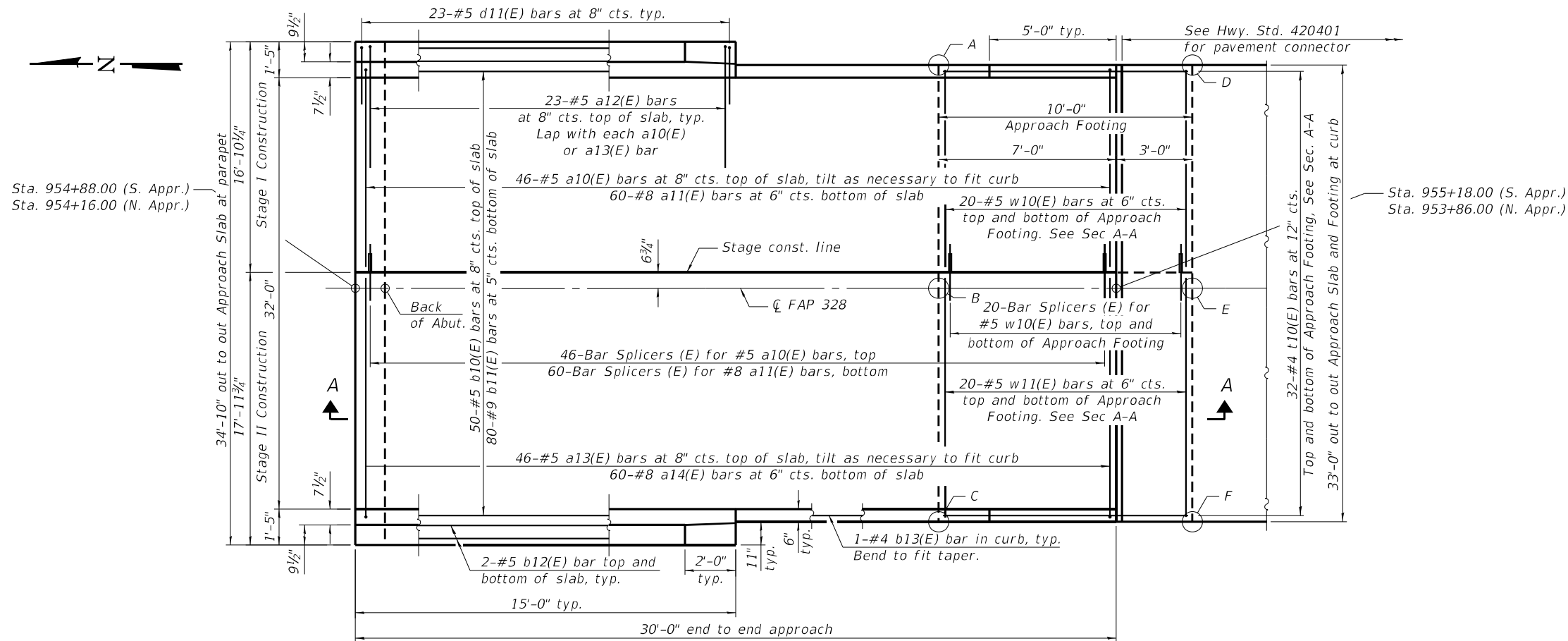
WEST EDGE OF SHOULDER			
Location	Station	Offset	Theoretical Grade Elevations
N. End of S. Appr. Slab	954+88.00	16.00	387.44
A3	954+98.00	16.00	387.42
A4	955+08.00	16.00	387.39
S. End of S. Appr. Slab	955+18.00	16.00	387.35



MODEL: Default
FILE NAME: pw:\kcg-pw\benley.com:kcg-pw-r01\Documents\DOT Projects\20-1109.13 (554)\0_IDOT\Structures\0970083-78833-008-SApprSlabElevs.dgn

	USER NAME =	DESIGNED - MI	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	TOP OF SOUTH APPROACH SLAB ELEVATIONS STRUCTURE NO. 097-0083	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		CHECKED - MLC	REVISED -			328	105B-3	WHITE	71	42
	PLOT SCALE =	DRAWN - MI	REVISED -			CONTRACT NO. 78833				
	PLOT DATE =	CHECKED - MLC	REVISED -			ILLINOIS FED. AID PROJECT				
	SHEET 8 OF 24 SHEETS									

MODEL: Default
FILE NAME: pw:\kcg-pw\benley.com\kcg-pw\1Documents\DOT Projects\20-1109.13 (554)\0_IDOT\Structures\0970083-78833-012-013-App\SlabDetails

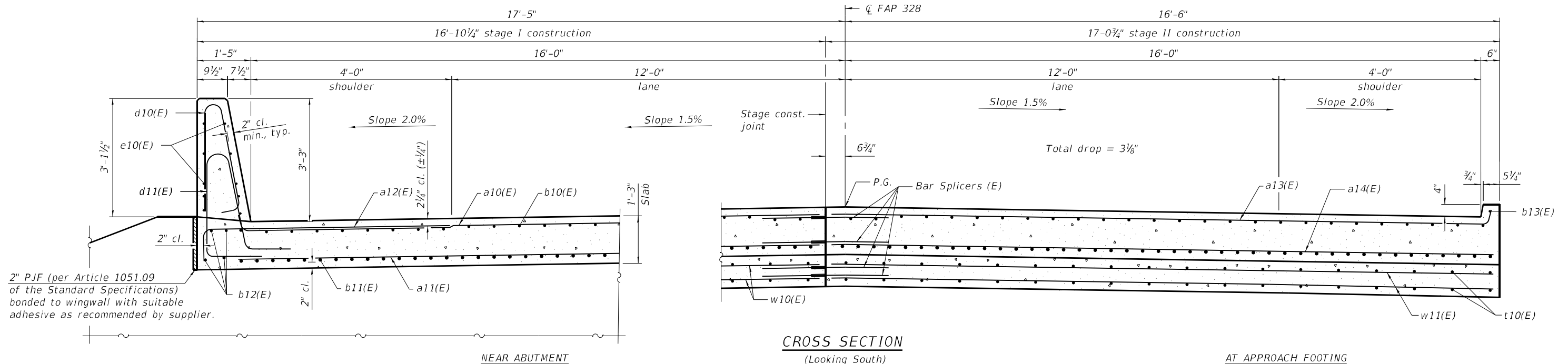


TOP AND BOTTOM ELEVATIONS FOR APPROACH FOOTING

North Approach			South Approach		
Point/Location	Top	Bottom	Point/Location	Top	Bottom
A - SW	386.12	385.28	A - NE	386.12	385.28
B - S ϕ	386.39	385.55	B - N ϕ	386.39	385.55
C - SE	386.12	385.28	C - NW	386.12	385.28
D - NW	386.08	385.25	D - SE	386.08	385.25
E - N ϕ	386.35	385.52	E - S ϕ	386.35	385.52
F - NE	386.08	385.25	F - SW	386.08	385.25

PLAN

(Showing South Approach; North Approach similar by 180-degree rotation)



CROSS SECTION

(Looking South)

AT APPROACH FOOTING

(Sheet 1 of 2)

USER NAME =	DESIGNED - MI	REVISED -
CHECKED - MLC	REVISED -	
PLOT SCALE =	DRAWN - MI	REVISED -
PLOT DATE =	CHECKED - MLC	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BRIDGE APPROACH SLAB DETAILS
STRUCTURE NO. 097-0083

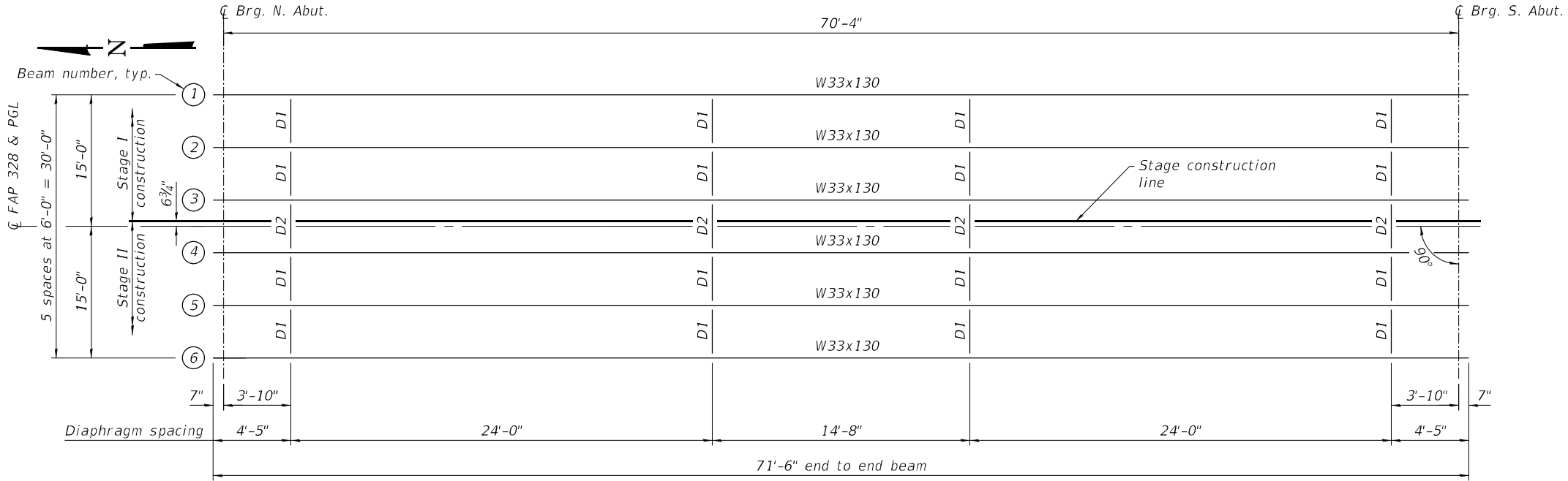
SHEET 12 OF 24 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
328	105B-3	WHITE	71	46
CONTRACT NO. 78833				
ILLINOIS FED. AID PROJECT				

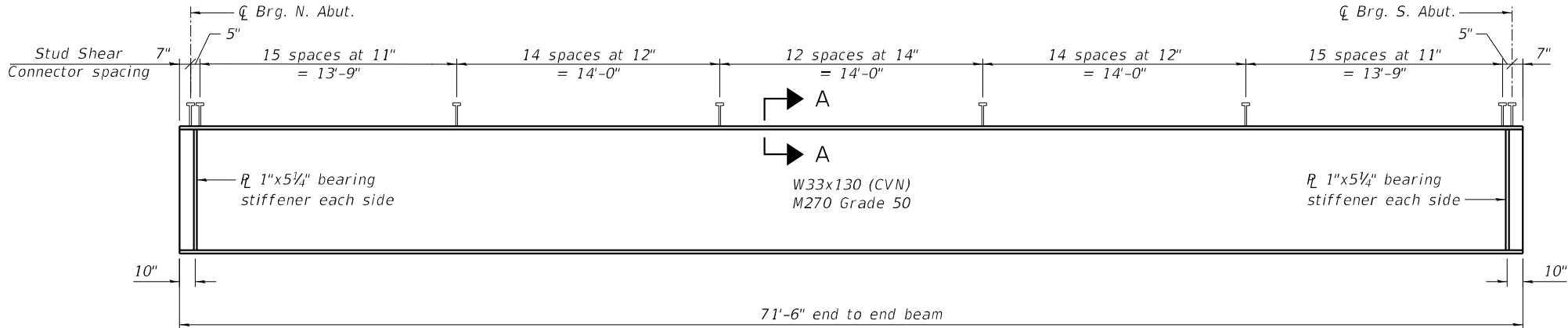
Notes:
See Sheet 15 of 24 for additional steel details.
All diaphragms shall be installed as steel is erected and secured with erection pins and bolts except as otherwise noted. Individual diaphragms at supports may be temporarily disconnected to install bearing anchor bolts.
Load carrying components designated (CVN) shall conform to the Charpy-V-Notch Impact Energy Requirement, Zone 2.
The structural steel of the beams and bearing stiffeners shall be M270 Grade 50.

TOP OF BEAM ELEVATIONS
(For fabrication only)

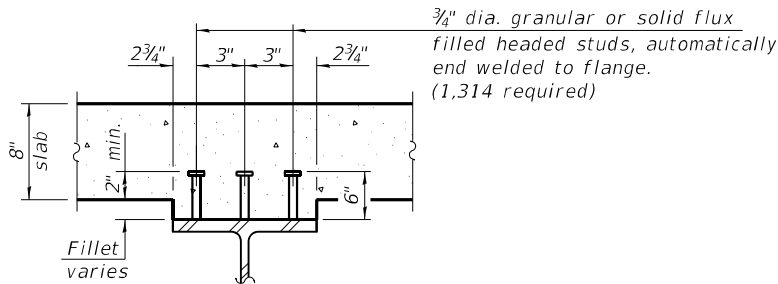
Beam	℄ Brg. N. Abut.	℄ Brg. S. Abut.
1	386.74	386.74
2	386.84	386.84
3	386.93	386.93
4	386.93	386.93
5	386.84	386.84
6	386.74	386.74



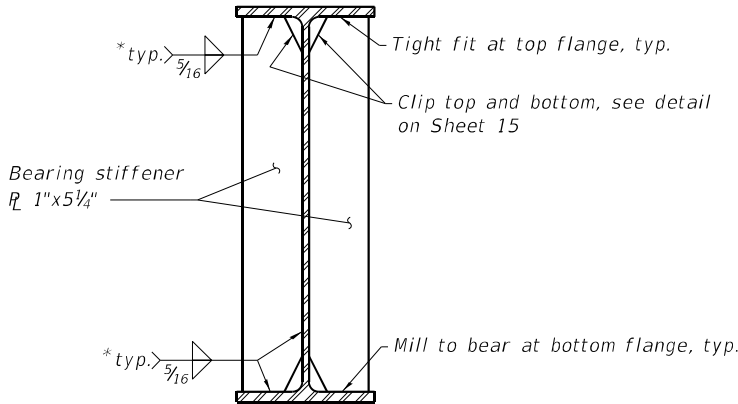
FRAMING PLAN



BEAM ELEVATION



SECTION A-A



SECTION AT ABUTMENT
(No. stiffeners required = 24)

MODEL: PLOT
FILE NAME: Y:\IDOT\1359-13_78833\CADD\SP SN 097-0083\0970083-78833-14-SteelFramingPlan.dgn



USER NAME = nhc
ESCA PROJECT NO. 1359.13
PLOT SCALE = 0:2 " = 1' / in.
PLOT DATE = 6/3/2024

DESIGNED - ELH	01/24	REVISED -
CHECKED - CTJ	01/24	REVISED -
DRAWN - NHC	04/24	REVISED -
CHECKED - ELH	04/24	REVISED -

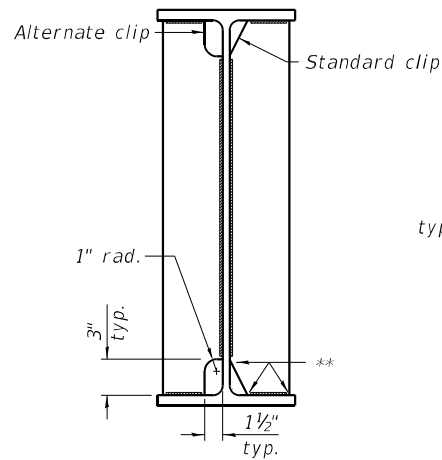
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

STEEL FRAMING PLAN AND DETAILS
STRUCTURE NO. 097-0083

SHEET 14 OF 24 SHEETS

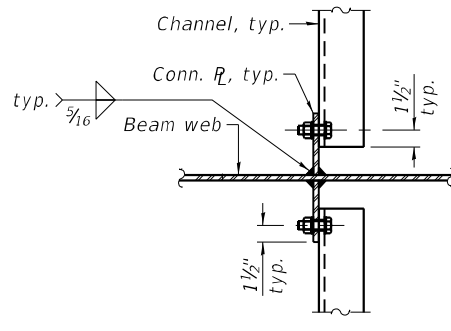
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
328	105B-3	WHITE	71	48
CONTRACT NO. 78833				
ILLINOIS FED. AID PROJECT				

MODEL: PLOT
FILE NAME: Y:\IDOT\1359-13_78833\CADD\SP_SN_097-0083\0970083-78833-15-FramingDtls.dgn

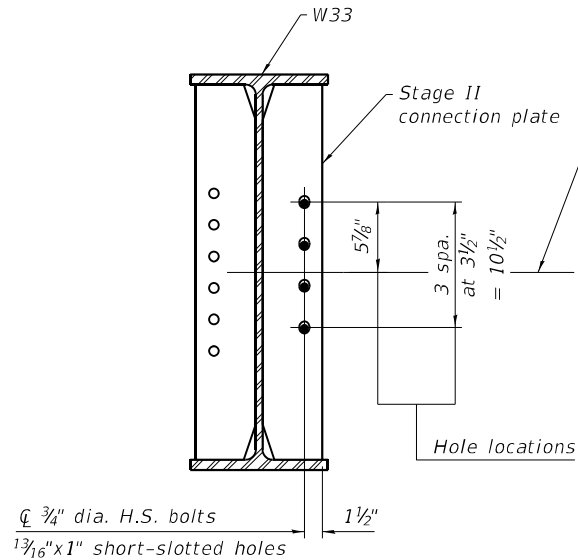


WELD LIMITS AND CLIP DETAILS

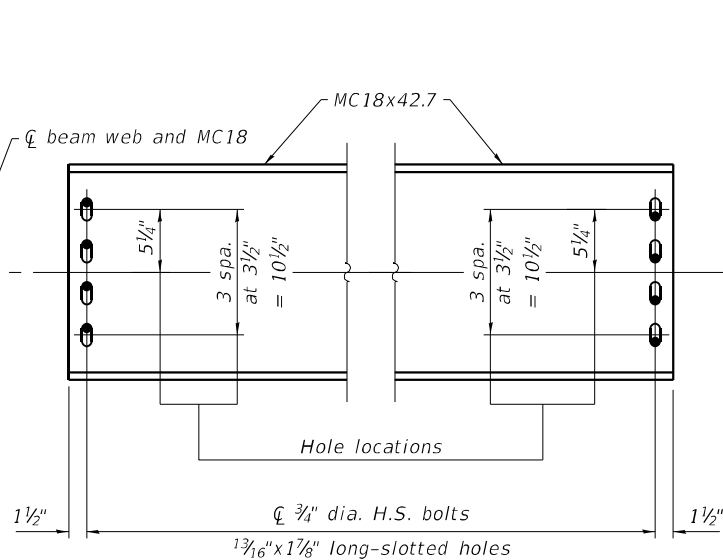
** Stop welds 1/4" (±1/8") from edges as shown, typ.



DETAIL A

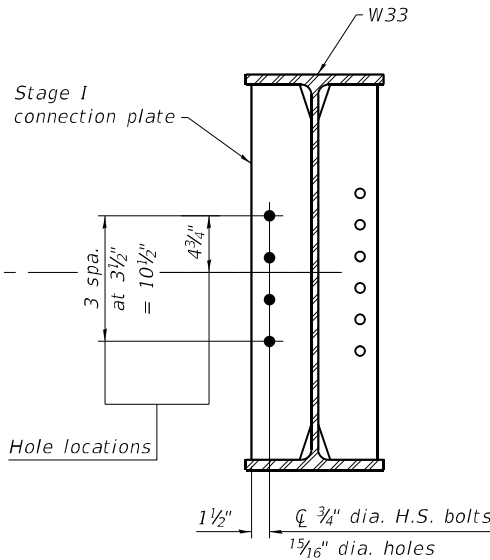


Stage II Side

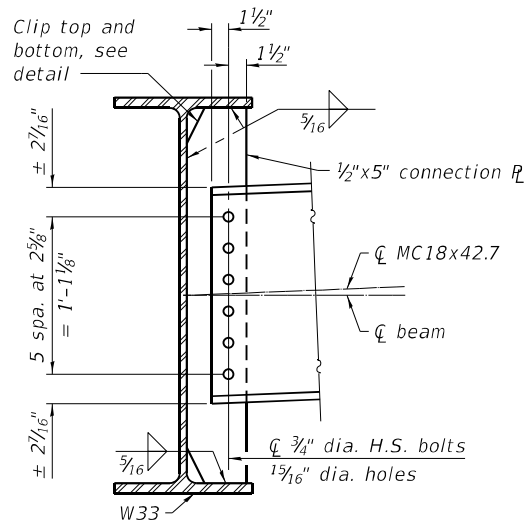


DETAIL B

Position bolts in slots as shown prior to pouring stage II concrete



Stage I Side

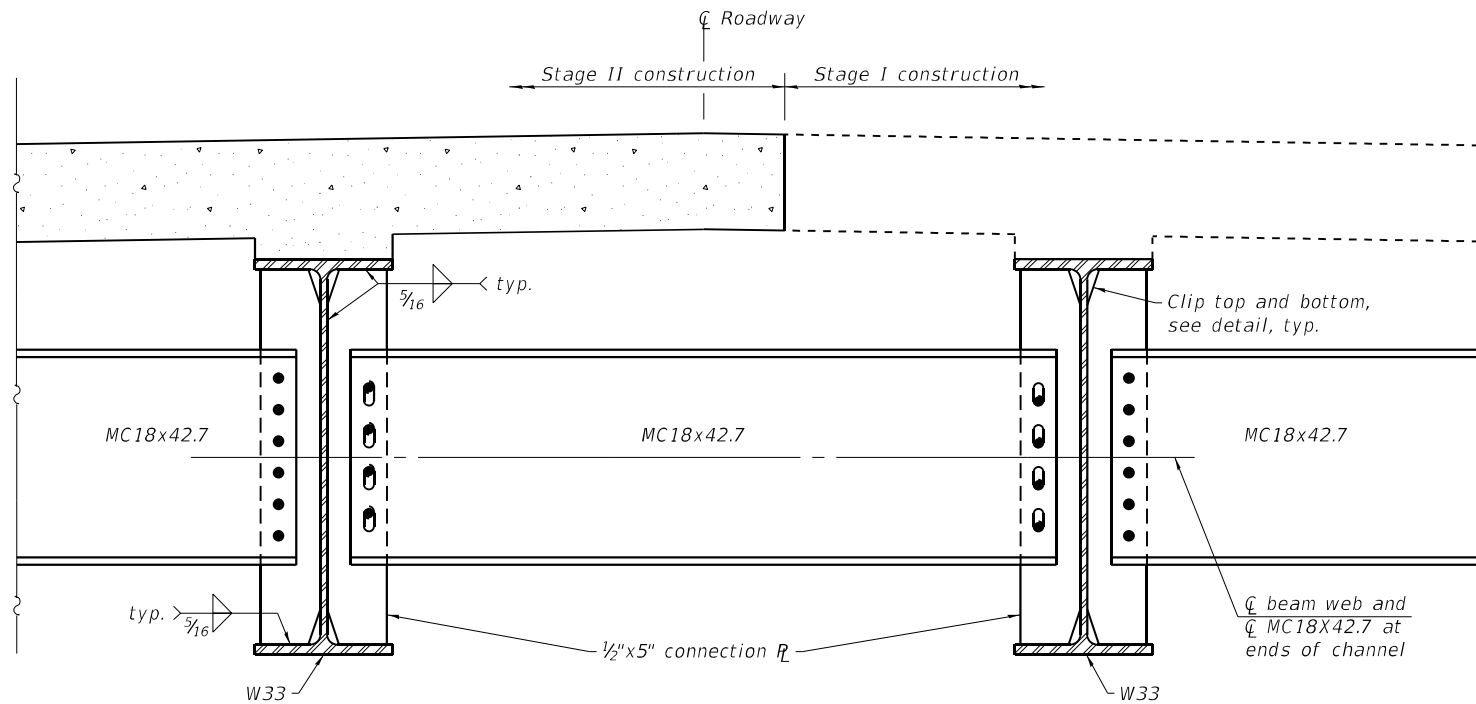


INTERIOR DIAPHRAGM D1 (16 Required)

Diaphragm D1 Notes:

Two hardened washers required for each set of oversized holes.

Alternate channels of equal depth and larger weight are permitted to facilitate material acquisition. Alternate channels, if utilized, shall be provided at no additional cost to the Department.



INTERIOR DIAPHRAGM D2 (4 Required)

Diaphragm D2 Notes:

Two hardened washers required for each set of holes.

Alternate channels of equal depth and larger weight are permitted to facilitate material acquisition. Alternate channels, if utilized, shall be provided at no additional cost to the Department.

Bolts in slots shall be finger tight until the second stage pour is complete. Fully tighten after Stage II deck pour is complete.

See Detail B for additional steel details.



USER NAME = nhc
ESCA PROJECT NO. 1359.13
PLOT SCALE = 0:2" = 1' / in.
PLOT DATE = 2/2/2024

DESIGNED - ELH 02/24
CHECKED - CTJ 02/24
DRAWN - NHC 02/24
CHECKED - ELH 02/24

REVISED -
REVISED -
REVISED -
REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

FRAMING DETAILS
STRUCTURE NO. 097-0083

SHEET 15 OF 24 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
328	105B-3	WHITE	71	49
CONTRACT NO. 78833				
ILLINOIS FED. AID PROJECT				

MODEL: PLOT
FILE NAME: Y:\IDOT\1359-13_78833\CADD\SP_SN_097-0083\0970083-78833-16-FramingDtls.dgn

INTERIOR BEAM MOMENT TABLE		
0.5 Span		
I_s	(in^4)	6,710
$I_c(n)$	(in^4)	18,034
$I_c(3n)$	(in^4)	13,450
$I_c(cr)$	(in^4)	-
S_s	(in^3)	406
$S_c(n)$	(in^3)	593
$S_c(3n)$	(in^3)	539
$S_c(cr)$	(in^3)	-
S_x	(in^3)	518
DC1	(k/ft)	0.775
M_{DC1}	(k)	479.1
DC2	(k/ft)	0.175
M_{DC2}	(k)	108.2
DW	(k/ft)	0.267
M_{DW}	(k)	165.0
LLDF		0.5482
$M_L + IM$	(k)	946.8
f_t (Strength I)	(ksi)	0
$M_u + 1/3 f_t S_x$	(k)	2,638
$\phi_r M_n$	(k)	3,151
f_s DC1	(ksi)	14.16
f_s DC2	(ksi)	2.41
f_s DW	(ksi)	3.67
f_s ($L + IM$)	(ksi)	19.15
f_t (Service II)	(ksi)	0
$f_s + f_t/2$ (Service II)	(ksi)	45.14
Service II Resistance	(ksi)	47.50
$f_s + f_t/3$ (Strength I)	(ksi)	-
$\phi_r F_n$	(ksi)	-
V_r	(k)	25.1

BEAM REACTION TABLE			
		Abutments	
		Interior	Exterior
LLDF		0.6706	0.5000
OCF		1.0000	1.0000
R_{DC1}	(k)	27.3	27.5
R_{DC2}	(k)	6.2	6.2
R_{DW}	(k)	9.4	9.4
R_L	(k)	57.5	42.9
R_{IM}	(k)	14.0	10.5
R_{Total} (Strength I)(Impact)	(k)	181.2	149.6
R_{Total} (Strength I)(No Impact)	(k)	156.7	131.3

I_s, S_s : Non-composite moment of inertia and section modulus of the steel section used for computing f_s (Total-Strength I, and Service II) due to non-composite dead loads ($in.^4$ and $in.^3$).

$I_c(n), S_c(n)$: Composite moment of inertia and section modulus of the steel and deck based upon the modular ratio, "n", used for computing f_s (Total-Strength I, and Service II) in uncracked sections due to short-term composite live loads ($in.^4$ and $in.^3$).

$I_c(3n), S_c(3n)$: Composite moment of inertia and section modulus of the steel and deck based upon 3 times the modular ratio, "3n", used for computing f_s (Total-Strength I, and Service II) in uncracked sections, due to long-term composite (superimposed) dead loads ($in.^4$ and $in.^3$).

$I_c(cr), S_c(cr)$: Composite moment of inertia and section modulus of the steel and longitudinal deck reinforcement, used for computing f_s (Total-Strength I and Service II) in cracked sections, due to both short-term composite live loads and long-term composite (superimposed) dead loads ($in.^4$ and $in.^3$).

S_x : Section modulus about the major axis of a section to the controlling flange, tension or compression, taken as yield moment with respect to the controlling flange over the yield strength of the controlling flange ($in.^3$).

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

M_{DC1} : 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.).

M_{DC2} : 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.).

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

LLDF: Live Load Distribution Factor for moment and shear computed according to Article 4.6.2.2 and further IDOT provisions.

$M_L + IM$: Un-factored live load moment plus dynamic load allowance (impact) (kip-ft.).

M_u : Strength I load combination of factored design moments (kip-ft.).
 $1.25 (M_{DC1} + M_{DC2}) + 1.5 M_{DW} + 1.75 M_L + IM$

f_t : Factored calculated flange lateral bending stress as calculated using Article 6.10.1.6 and as further simplified by IDOT provisions (ksi).

$\phi_r M_n$: Factored nominal flexural resistance of the section determined as specified in Article 6.10.7.1 or A6 as applicable (kip-ft.).

f_s DC1: Un-factored stress at edge of flange for controlling steel flange due to vertical non-composite dead loads as calculated below (ksi).
 M_{DC1} / S_s

f_s DC2: Un-factored stress at edge of flange for controlling steel flange due to vertical composite dead loads as calculated below (ksi).
 $M_{DC2} / S_c(3n)$ or $M_{DC2} / S_c(cr)$ as applicable.

f_s DW: Un-factored stress at edge of flange for controlling steel flange due to vertical composite future wearing surface loads as calculated below (ksi).
 $M_{DW} / S_c(3n)$ or $M_{DW} / S_c(cr)$ as applicable.

$f_s (L + IM)$: Un-factored stress at edge of flange for controlling steel flange due to vertical composite live load plus impact loads as calculated below (ksi).
 $M_L + IM / S_c(n)$ or $M_L + IM / S_c(cr)$ as applicable.

$f_s + f_t/2$ (Service II): Sum of stresses as computed below (ksi).
 f_s DC1 + f_s DC2 + f_s DW + 1.3 $f_s (L + IM)$ + $f_t/2$

Service II Resistance: Composite ($0.95R_h F_{yf}$) or noncomposite ($0.80R_h F_{yf}$) stress capacity according to Article 6.10.4.2 (ksi).

$f_s + f_t/3$ (Strength I): Sum of stresses as computed below on non-compact sections (ksi).
 $1.25 (f_s$ DC1 + f_s DC2) + 1.5 f_s DW + 1.75 $f_s (L + IM)$ + $f_t/3$

$\phi_r F_n$: Factored nominal flexural resistance of the section as specified in Article 6.10.7.2 or 6.10.8 as applicable (ksi).

V_r : Maximum factored shear range in span computed according to Article 6.10.10.

OCF: Obtuse Correction Factor according to Article 4.6.2.2.3c or as further simplified by IDOT provisions.

R_{DC1} : Un-factored reaction due to non-composite dead load (kip).

R_{DC2} : Un-factored reaction due to long-term composite (superimposed excluding future wearing surface) dead load (kip).

R_{DW} : Un-factored reaction due to long-term composite (superimposed future wearing surface only) dead load (kip).

R_L : Un-factored live load reaction (kip).

R_{IM} : Un-factored dynamic load allowance (impact) (kip).

R_{Total} (Strength I)(Impact): Strength I load combination of factored design reactions (kip).
 $1.25 (R_{DC1} + R_{DC2}) + 1.5R_{DW} + 1.75 (R_L + R_{IM})$

R_{Total} (Strength I)(No Impact): Strength I load combination of factored design reactions, not including dynamic load allowance (Impact) (kip).
 $1.25 (R_{DC1} + R_{DC2}) + 1.5R_{DW} + 1.75 (R_L)$



USER NAME = ztc
ESCA PROJECT NO. 1359.13
PLOT SCALE = 0:2 " = 1' / in.
PLOT DATE = 4/15/2024

DESIGNED - ELH 11/23
CHECKED - CTJ 12/23
DRAWN - NHC 04/24
CHECKED - ELH 04/24

REVISED -
REVISED -
REVISED -
REVISED -

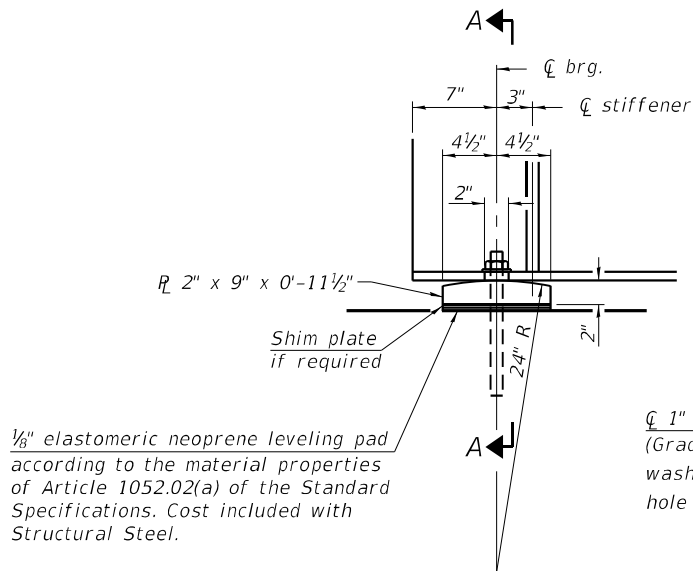
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

FRAMING DETAILS
STRUCTURE NO. 097-0083

SHEET 16 OF 24 SHEETS

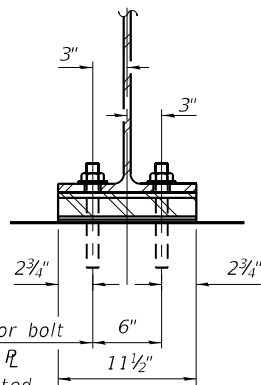
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
328	105B-3	WHITE	71	50
CONTRACT NO. 78833				
		ILLINOIS	FED. AID PROJECT	

MODEL: PLOT
FILE NAME: Y:\IDOT\1359-13_78833\CADD\SP_SN_097-0083\0970083-78833-17-BearingDtls.dgn



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

ELEVATION AT ABUTMENT



ϕ 1" dia. x 12" all-thread anchor bolt (Grade 55) with $2\frac{1}{4}$ " x $2\frac{1}{4}$ " x $\frac{5}{16}$ " ϕ washer under nut. $1\frac{3}{8}$ " x 2" slotted hole in flange. $1\frac{1}{2}$ " dia. hole in bearing plate.

SECTION A-A

FIXED BEARING

Notes:

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

All (embedded and separate) bearing plates, side retainers, anchor bolts, nuts, washers and pintles shall be galvanized according to AASHTO M111 or M232 as applicable.

Two $\frac{1}{8}$ in. adjusting shims shall be provided for each bearing in addition to all other plates or shims and placed as shown on the bearing details.

BILL OF MATERIAL

Item	Unit	Total
Anchor Bolts, 1"	Each	24



USER NAME = ztc
ESCA PROJECT NO. 1359.13
PLOT SCALE = 0:2 1/4" = 1" / in.
PLOT DATE = 4/15/2024

DESIGNED - ELH	12/23
CHECKED - CTJ	12/23
DRAWN - NHC	04/24
CHECKED - ELH	04/24

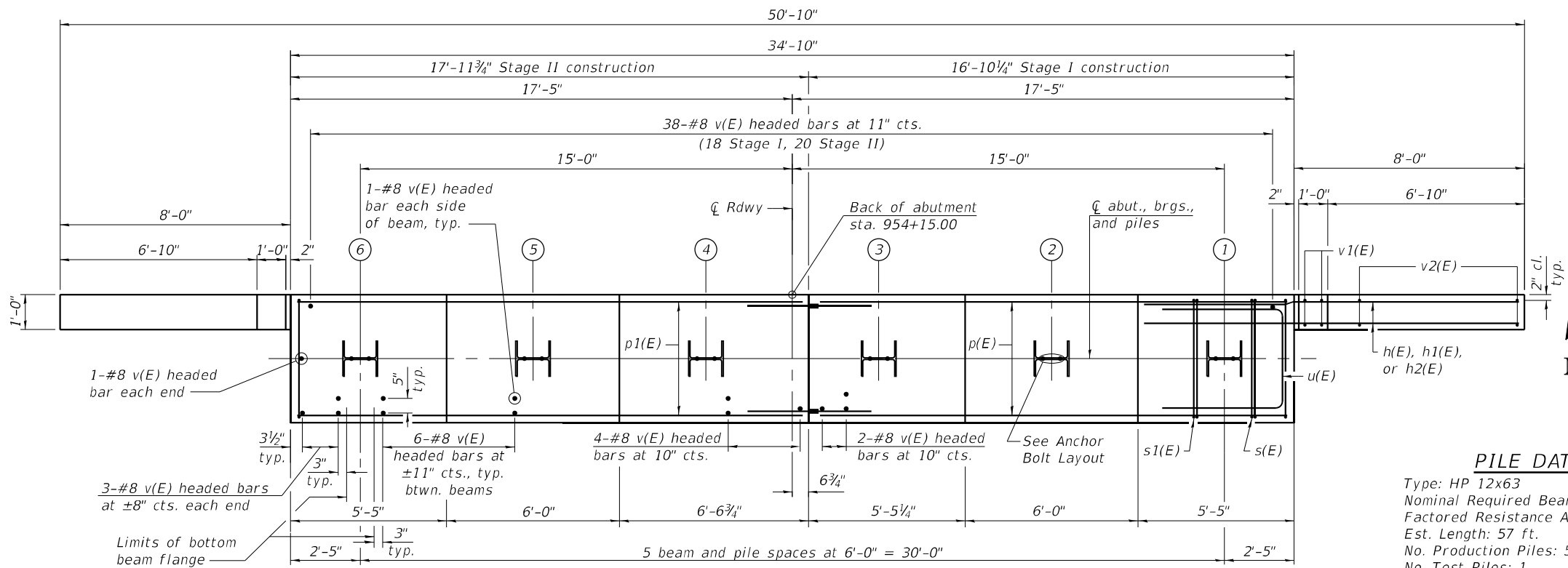
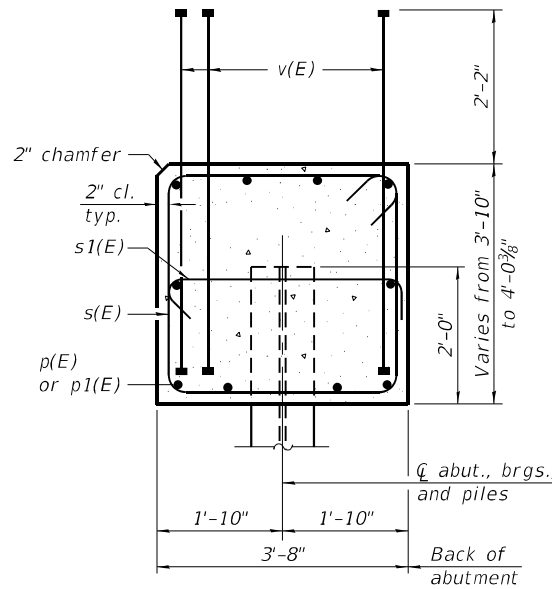
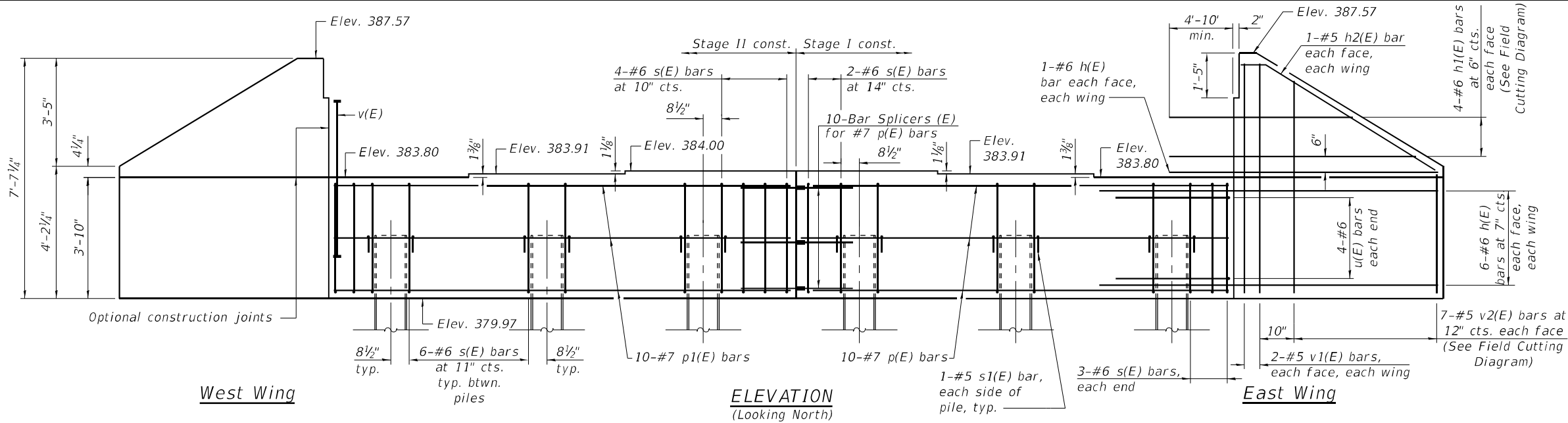
REVISED -
REVISED -
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REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BEARING DETAILS
STRUCTURE NO. 097-0083

SHEET 17 OF 24 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
328	105B-3	WHITE	71	51
CONTRACT NO. 78833				
ILLINOIS FED. AID PROJECT				

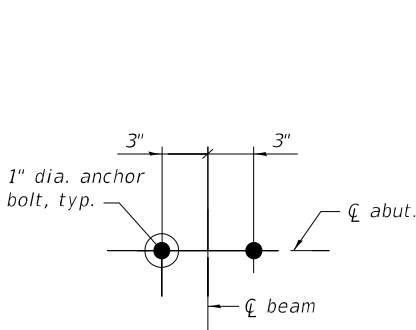


BILL OF MATERIAL

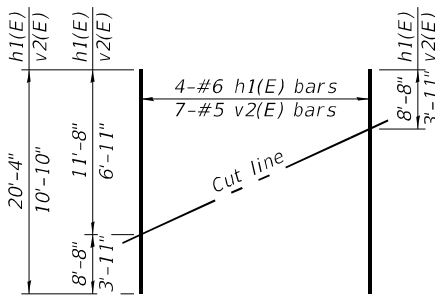
Bar	No.	Size	Length	Shape
h(E)	24	#6	13'-0"	
h1(E)	8	#6	20'-4"	
h2(E)	4	#5	8'-6"	
p(E)	10	#7	16'-7"	
p1(E)	10	#7	17'-8"	
s(E)	36	#6	15'-0"	
s1(E)	12	#5	4'-4"	
u(E)	8	#6	11'-10"	
v(E)	88	#8	5'-3"	
v1(E)	8	#5	7'-2"	
v2(E)	14	#5	10'-10"	
Structure Excavation			Cu. Yd.	125
Concrete Structures			Cu. Yd.	22.3
Reinforcement Bars, Epoxy Coated			Pound	3,910
Furnishing Steel Piles HP12x63			Foot	285
Driving Piles			Foot	285
Test Pile Steel HP12x63			Each	1
Bar Terminator			Each	176
Pile Shoes			Each	6

PILE DATA

Type: HP 12x63
Nominal Required Bearing: 497 kips
Factored Resistance Available: 273 kips
Est. Length: 57 ft.
No. Production Piles: 5
No. Test Piles: 1



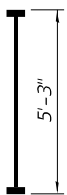
ANCHOR BOLT LAYOUT



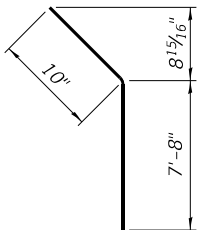
FIELD CUTTING DIAGRAM

Order h1(E) and v2(E) full length. Cut as shown and use remainder of bars in opposite wing.

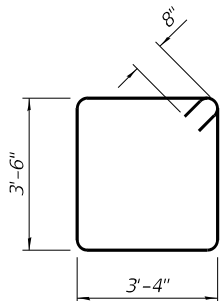
PLAN



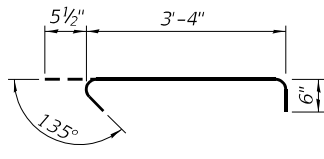
BAR v(E)
(Headed. 2-#8 Bar Terminators)



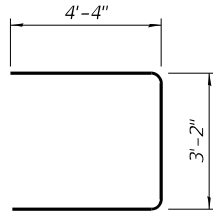
BAR h2(E)



BAR s(E)



BAR s1(E)



BAR u(E)

Notes:
Pour steps monolithically with cap.
Headed bars shall conform to ASTM A970 with threaded attachment; Class HA; and reinforcement bars conforming to ASTM A706.
For details of piles see Sheet 20 of 24.

MODEL: PLOT
FILE NAME: Y:\DOT\1359-13_78833\CADD\SP SN 097-0083\0970083-78833-18-NAbut.dgn



USER NAME = nhc
ESCA PROJECT NO. 1359.13
PLOT SCALE = 0:2 1/4" = 1'-0"
PLOT DATE = 6/5/2024

DESIGNED - CTJ 01/24
CHECKED - ELH 01/24
DRAWN - NHC 04/24
CHECKED - ELH 04/24

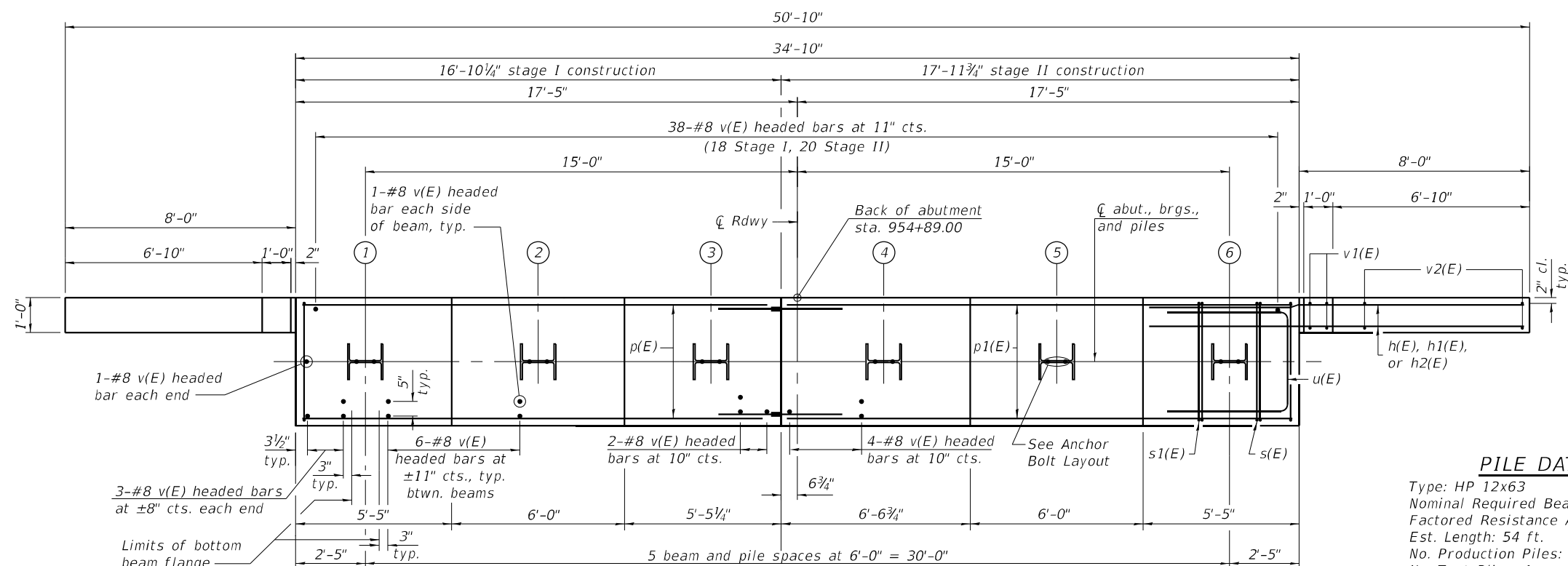
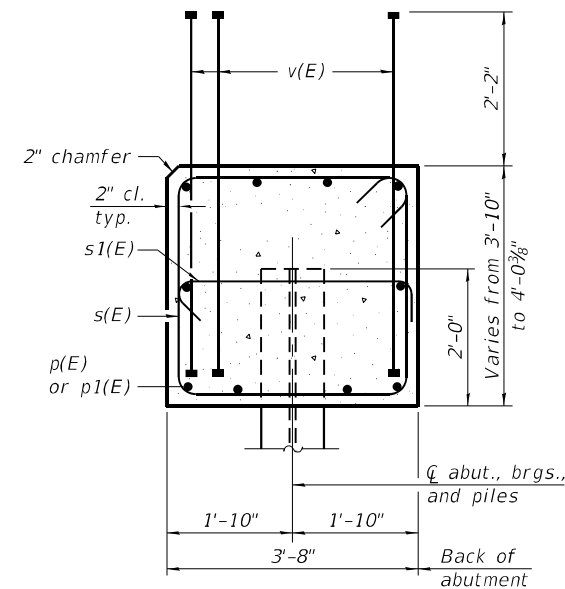
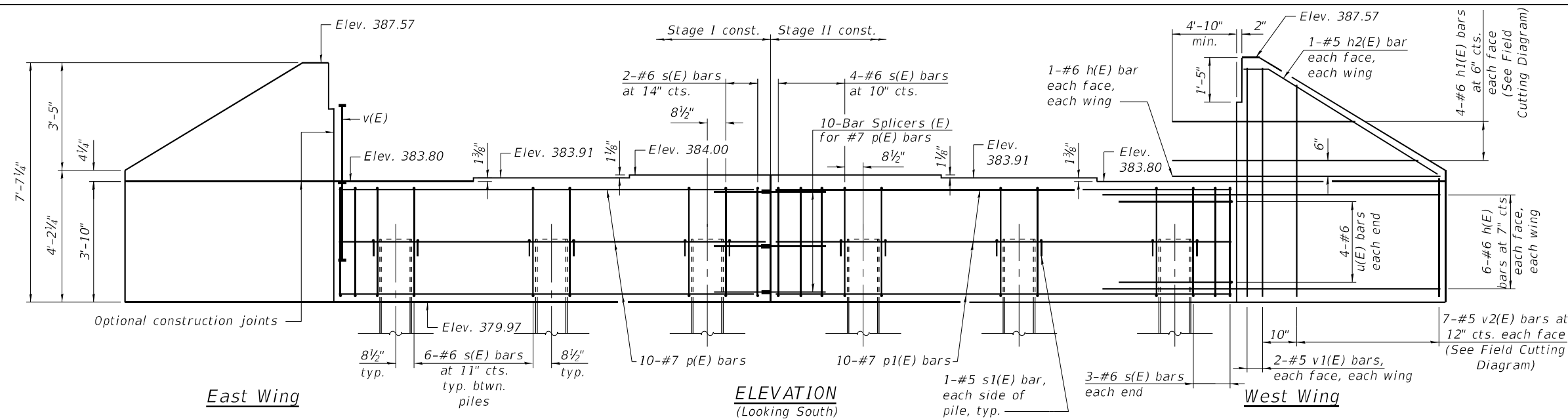
REVISED -
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REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

NORTH ABUTMENT
STRUCTURE NO. 097-0083

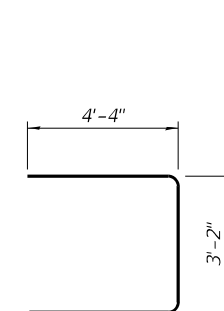
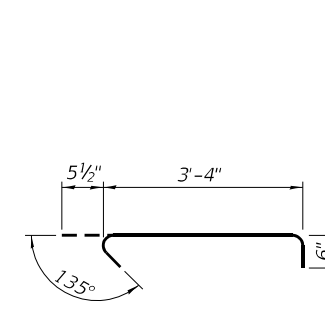
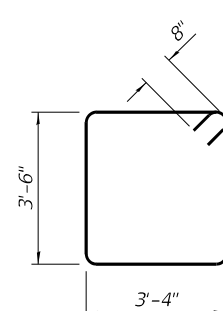
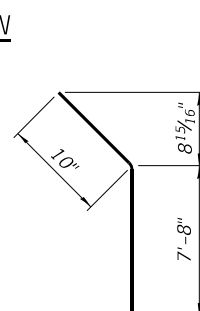
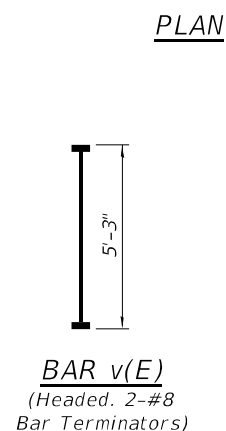
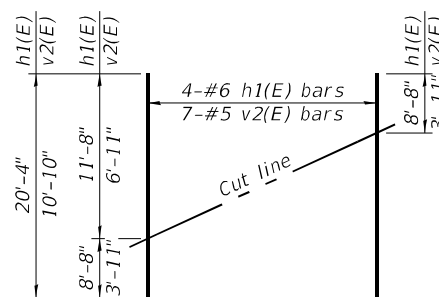
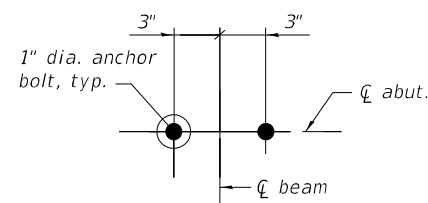
SHEET 18 OF 24 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
328	105B-3	WHITE	71	52
CONTRACT NO. 78833				
ILLINOIS FED. AID PROJECT				

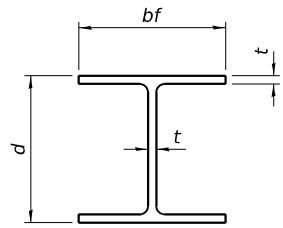


BILL OF MATERIAL

Bar	No.	Size	Length	Shape
h(E)	24	#6	13'-0"	
h1(E)	8	#6	20'-4"	
h2(E)	4	#5	8'-6"	
p(E)	10	#7	16'-7"	
p1(E)	10	#7	17'-8"	
s(E)	36	#6	15'-0"	
s1(E)	12	#5	4'-4"	
u(E)	8	#6	11'-10"	
v(E)	88	#8	5'-3"	
v1(E)	8	#5	7'-2"	
v2(E)	14	#5	10'-10"	
Structure Excavation			Cu. Yd.	125
Concrete Structures			Cu. Yd.	22.3
Reinforcement Bars, Epoxy Coated			Pound	3,910
Furnishing Steel Piles HP12x63			Foot	270
Driving Piles			Foot	270
Test Pile Steel HP12x63			Each	1
Bar Terminator			Each	176
Pile Shoes			Each	6

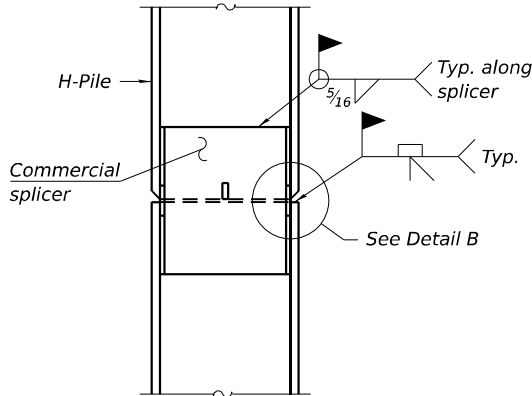


Notes:
 Pour steps monolithically with cap.
 Headed bars shall conform to ASTM A970 with
 threaded attachment; Class HA; and reinforcement
 bars conforming to ASTM A706.
 For details of piles see Sheet 20 of 24.

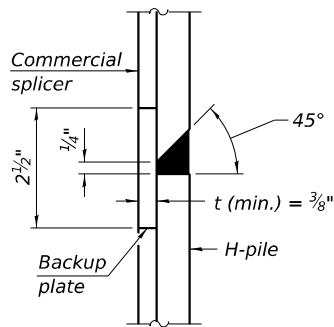


STEEL PILE TABLE

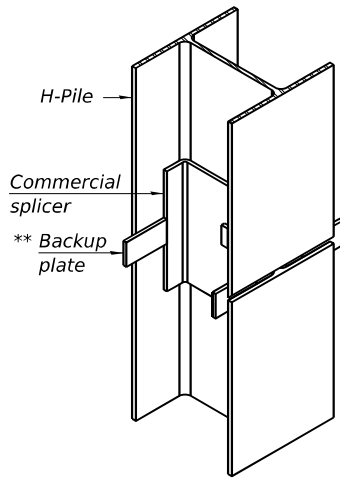
Designation	Depth d	Flange width bf	Web and Flange thickness t	Encasement diameter A
HP 18x181	18	18	1	36"
x157	17 ³ / ₄ "	17 ⁷ / ₈ "	⁷ / ₈ "	36"
x135	17 ¹ / ₂ "	17 ³ / ₄ "	³ / ₄ "	36"
HP 16x183	16 ¹ / ₂ "	16 ¹ / ₂ "	1 ¹ / ₈ "	36"
x162	16 ¹ / ₄ "	16 ¹ / ₈ "	1"	36"
x141	16	16	⁷ / ₈ "	36"
x121	15 ³ / ₄ "	15 ⁷ / ₈ "	³ / ₄ "	36"
HP 14x117	14 ¹ / ₄ "	14 ⁷ / ₈ "	¹³ / ₁₆ "	30"
x102	14"	14 ³ / ₄ "	¹¹ / ₁₆ "	30"
x89	13 ⁷ / ₈ "	14 ³ / ₄ "	⁵ / ₈ "	30"
x73	13 ⁵ / ₈ "	14 ⁵ / ₈ "	¹ / ₂ "	30"
HP 12x84	12 ¹ / ₄ "	12 ¹ / ₄ "	¹¹ / 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 ³ / ₄ "	⁹ / ₁₆ "	24"
x42	9 ³ / ₄ "	10 ¹ / ₈ "	⁷ / ₁₆ "	24"
HP 8x36	8"	8 ¹ / ₈ "	⁷ / ₁₆ "	18"



ELEVATION

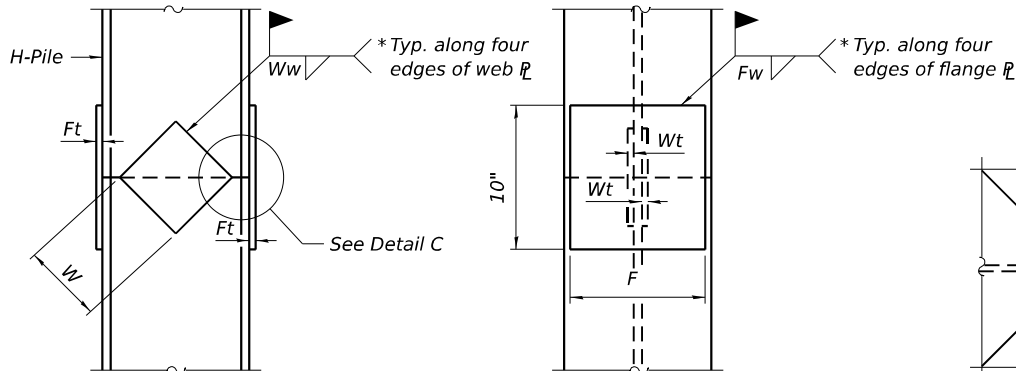


DETAIL B



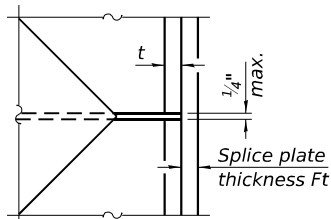
ISOMETRIC VIEW

WELDED COMMERCIAL SPLICE



ELEVATION

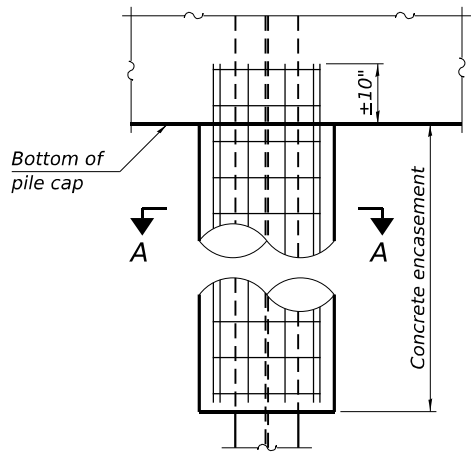
END VIEW



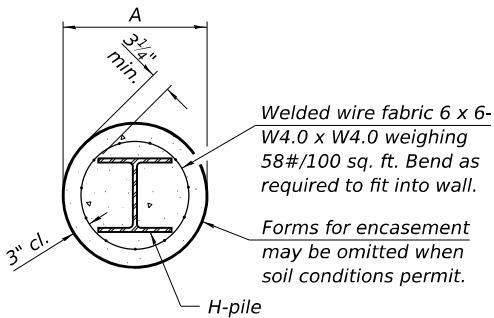
DETAIL C

Designation	F	Ft	Fw	W	Wt	Ww
HP 18x181	15 ¹ / ₂ "	1 ¹ / ₂ "	1"	9 ¹ / ₂ "	⁷ / ₈ "	³ / ₄ "
x157	15 ¹ / ₄ "	1 ¹ / ₄ "	1"	9 ¹ / ₂ "	⁷ / ₈ "	³ / ₄ "
x135	15 ¹ / ₄ "	1 ¹ / ₄ "	1"	9 ¹ / ₂ "	⁷ / ₈ "	³ / ₄ "
HP 16x183	13 ³ / ₄ "	1 ¹ / ₂ "	1"	8 ¹ / ₄ "	⁷ / ₈ "	³ / ₄ "
x162	13 ¹ / ₂ "	1 ¹ / ₂ "	1"	8 ¹ / ₄ "	³ / ₄ "	⁵ / ₈ "
x141	13 ¹ / ₂ "	1 ¹ / ₄ "	⁷ / ₈ "	8 ¹ / ₄ "	³ / ₄ "	⁵ / ₈ "
x121	13 ¹ / ₂ "	1 ¹ / ₄ "	⁷ / ₈ "	8 ¹ / ₄ "	³ / ₄ "	⁵ / ₈ "
HP 14x117	12 ¹ / ₂ "	1 ¹ / ₄ "	⁷ / ₈ "	7 ³ / ₄ "	⁵ / ₈ "	¹ / ₂ "
x102	12 ¹ / ₂ "	1"	³ / ₄ "	7 ³ / ₄ "	⁵ / ₈ "	¹ / ₂ "
x89	12 ¹ / ₂ "	⁷ / ₈ "	¹¹ / ₁₆ "	7 ³ / ₄ "	⁵ / ₈ "	¹ / ₂ "
x73	12 ¹ / ₂ "	³ / ₄ "	⁹ / ₁₆ "	7 ³ / ₄ "	⁵ / ₈ "	¹ / ₂ "
HP 12x84	10"	1"	¹¹ / ₁₆ "	6 ¹ / ₂ "	⁵ / ₈ "	¹ / ₂ "
x74	10"	⁷ / ₈ "	¹¹ / ₁₆ "	6 ¹ / ₂ "	⁵ / ₈ "	¹ / ₂ "
x63	10"	³ / ₄ "	¹ / ₂ "	6 ¹ / ₂ "	¹ / ₂ "	³ / ₈ "
x53	10"	³ / ₄ "	¹ / ₂ "	6 ¹ / ₂ "	¹ / ₂ "	³ / ₈ "
HP 10x57	8"	⁷ / ₈ "	⁹ / ₁₆ "	5 ¹ / ₄ "	¹ / ₂ "	³ / ₈ "
x42	8"	³ / ₄ "	⁹ / ₁₆ "	5 ¹ / ₄ "	¹ / ₂ "	³ / ₈ "
HP 8x36	6 ³ / ₄ "	⁵ / ₈ "	⁷ / ₁₆ "	4"	¹ / ₂ "	³ / ₈ "

WELDED PLATE FIELD SPLICE

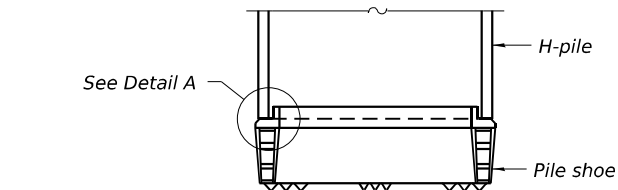


ELEVATION

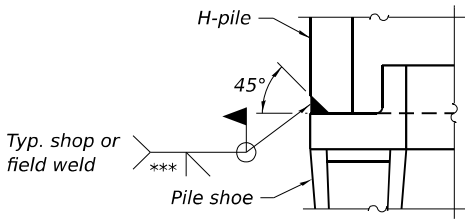


SECTION A-A

INDIVIDUAL PILE
CONCRETE ENCASUREMENT
(when specified)



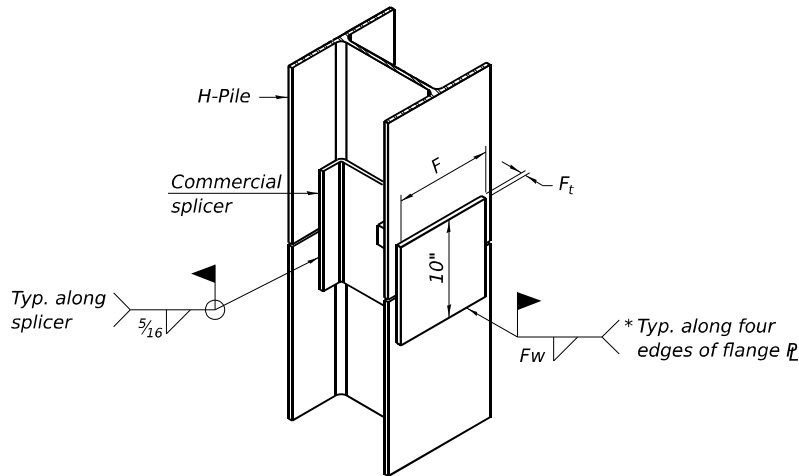
ELEVATION



DETAIL A

SHOE ATTACHMENT

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



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.).

MODEL: PLOT
FILE NAME: Y:\DOT\1359-13_78833\CADD\5P_SN_097-0083\0970083-78833-20-HPPIleDtls.dgn

F-HP

10-27-2023



USER NAME = nhc	DESIGNED - ELH 01/24	REVISED -
ESCA PROJECT NO. 1359.13	CHECKED - CTJ 01/24	REVISED -
PLOT SCALE = 0.1667' / in.	DRAWN - NHC 01/24	REVISED -
PLOT DATE = 2/2/2024	CHECKED - ELH 01/24	REVISED -

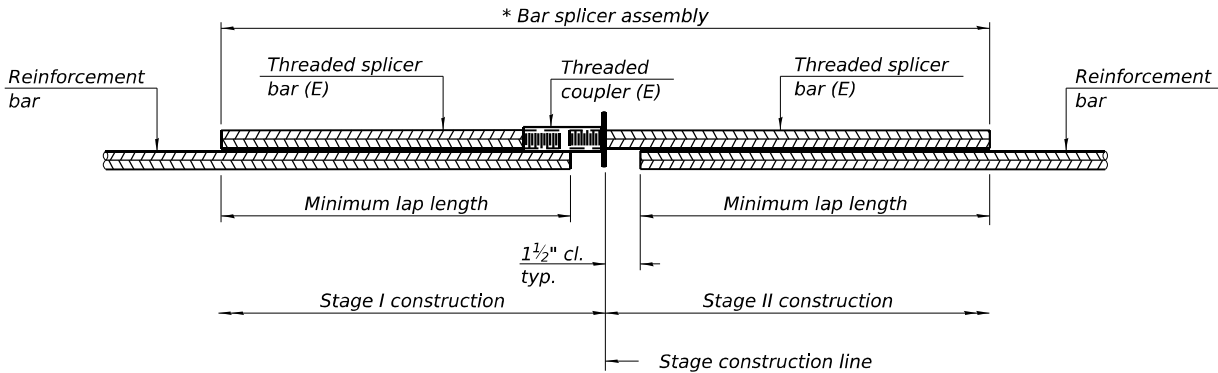
DESIGNED - ELH 01/24	REVISED -
CHECKED - CTJ 01/24	REVISED -
DRAWN - NHC 01/24	REVISED -
CHECKED - ELH 01/24	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

HP PILE DETAILS
STRUCTURE NO. 097-0083

SHEET 20 OF 24 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
328	105B-3	WHITE	71	54
CONTRACT NO. 78833				
ILLINOIS FED. AID PROJECT				



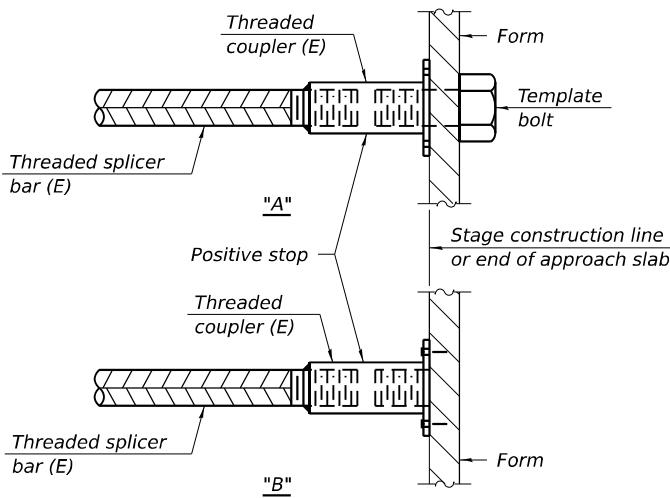
STANDARD BAR SPLICER ASSEMBLY PLAN

Only bar splicer assemblies as presented on the approved QPL list may be used.

Threaded splicer bar length = min. lap length + 1½" + 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	129	3'-6"
Bottom of Slab	#5	79	3'-6"
Diaphragms	#6	14	4'-0"
Top of Approach	#5	92	3'-4"
Bottom of Approach	#8	120	4'-9"
Top of Approach Footing	#5	40	3'-2"
Bottom of Approach Footing	#5	40	3'-2"
North Abutment	#7	10	5'-0"
South Abutment	#7	10	5'-0"

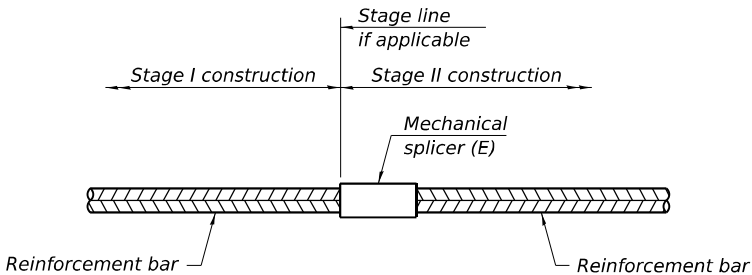


INSTALLATION AND SETTING METHODS

"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
NA		

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.

BSD-1

5-15-2023

MODEL: PLOT
FILE NAME: Y:\IDOT\1359-13_78833\CADD\5P_SN_097-0083\0970083-78833-21-BarSplicerDtls.dgn



USER NAME = ztc	DESIGNED - ELH	01/24	REVISED -
ESCA PROJECT NO. 1359.13	CHECKED - CTJ	01/24	REVISED -
PLOT SCALE = 0.1667 ' / in.	DRAWN - NHC	04/24	REVISED -
PLOT DATE = 4/15/2024	CHECKED - ELH	04/24	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BAR SPLICER ASSEMBLY DETAILS
STRUCTURE NO. 097-0083

SHEET 21 OF 24 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
328	105B-3	WHITE	71	55
CONTRACT NO. 78833				
ILLINOIS FED. AID PROJECT				



Page 1 of 2

Date 3/30/21

SECTION 105,B 105 BY-2 (existing) **LOCATION** 1.5 mile N of Enfield (near N. Abut.), **SEC. 32, TWP. 4S, RNG. 8E, PM**

COUNTY White **DRILLING METHOD** Hollow Stem Auger (8" O.D., 3.25" I.D.) **HAMMER TYPE** Auto SPT 140 lbs

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer, E-Estimated) Abbreviations W.O.H - Sampler Advanced By Weight of Hammer, W.O.P - Advanced by Weight of Pipe, B.S. - Before Seating The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206) BBS, from 137 (Rev. 8-99)



Page 2 of 2

Date 3/30/21

SECTION 105,B 105 BY-2 (existing) **LOCATION** 1.5 mile N of Enfield (near N. Abut.), SEC. 32, TWP. 4S, RNG. 8E, PM

COUNTY	White	DRILLING METHOD	Hollow Stem Auger (8" O.D., 3.25" I.D.)	HAMMER TYPE	Auto SPT 140 lbs
---------------	-------	------------------------	---	--------------------	------------------

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer, E-Estimated) Abbreviations W.O.H - Sampler Advanced By Weight of Hammer, W.O.P - Advanced by Weight of Pipe, B.S. - Before Seating The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206) BBS, from 137 (Rev. 8-99)



Page 1 of 2

Date 4/2/21

SECTION 105,B 105 BY-2 (existing) **LOCATION** 1.5 mile N of Enfield (near S. Abut.), **SEC. 32, TWP. 4S, RNG. 8E, PM**

COUNTY White **DRILLING METHOD** Hollow Stem Auger (8"O.D. 3.25" I.D.) **HAMMER TYPE** Auto SPT 140 lbs

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer, E-Estimated) Abbreviations W.O.H - Sampler Advanced By Weight of Hammer, W.O.P - Advanced by Weight of Pipe, B.S. - Before Seating The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206) BBS, from 137 (Rev. 8-99)

File Name S:\MATRIALS\GEO\TECHNICAL UNIT\GINT\PROJECTS\PROJECTS\FILE\WHITESTRUCTURES\097-0023 US 45 OVER LOST CREEK.GPJ Data Template D6TEMP.LT.GDT Date Printed 6/9/21
Latitude 38 07 35.24 Longitude -88 20 11.81 Datum NAD83 Job Number



Page 2 of 2

Date 4/2/21

SECTION 105,B 105 BY-2 (existing) **LOCATION** 1.5 mile N of Enfield (near S. Abut.), **SEC. 32, TWP. 4S, RNG. 8E, PM**

COUNTY White **DRILLING METHOD** Hollow Stem Auger (8" O.D. 3.25" I.D.) **HAMMER TYPE** Auto SPT 140 lbs

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer, E-Estimated) Abbreviations W.O.H - Sampler Advanced By Weight of Hammer, W.O.P - Advanced by Weight of Pipe, B.S. - Before Seating The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206) BBS, from 137 (Rev. 8-99)

File Name S:\MATERIALS\GEOTECHNICAL_UNIT\GINT\PROJECTS\PROJECTS\FILEWHITE\STRUCTURE\S097-0023_IL 45 OVER LOST CREEK.GPJ Data Template D6TEMP.LT.GDT Date Printed 6/9/21
 altitude 39 07 35.24 Longitude -88 20 11.81 Daturn NAD83 Job Number

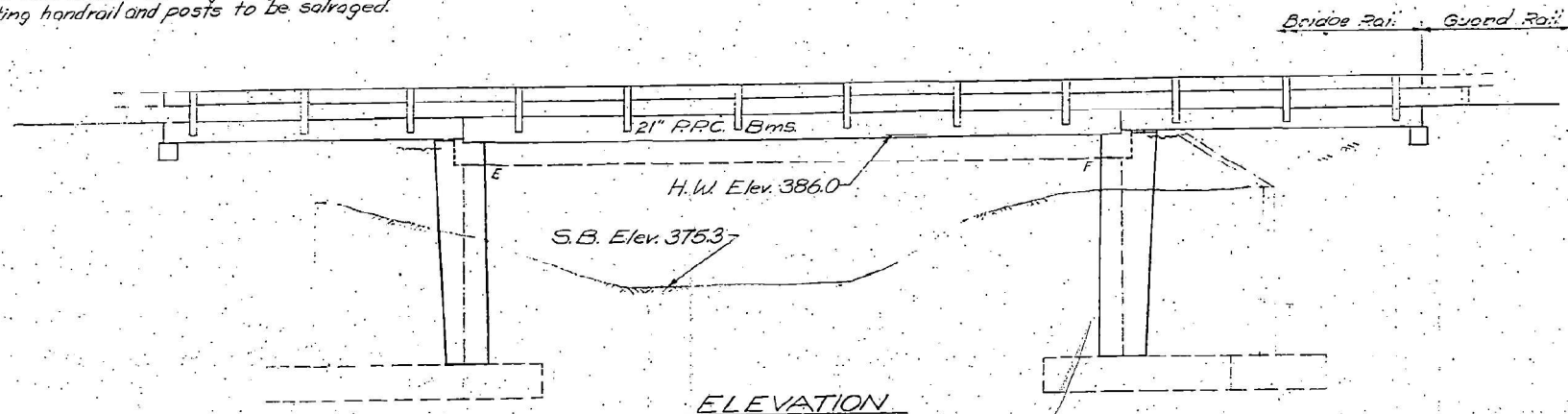


ROCK CORE 097-0023 IL 45 OVER LOST CREEK.GPJ D6TEMPL1.GDT 6/9/21

B.M. Chiseled on S.W. Wing of Bridge Sta. 954+52 Elev. 387.94
Existing Structure: Built as S.B.I. Rte. 140, Sec. 105B,
Sta. 954+52 in 1928. Superstructure: R.C. Deck Girder
Substructure: R.C. Closed Abuts. Structure to be widened
with P.P.C. beams utilizing stage construction.
Existing handrail and posts to be salvaged.

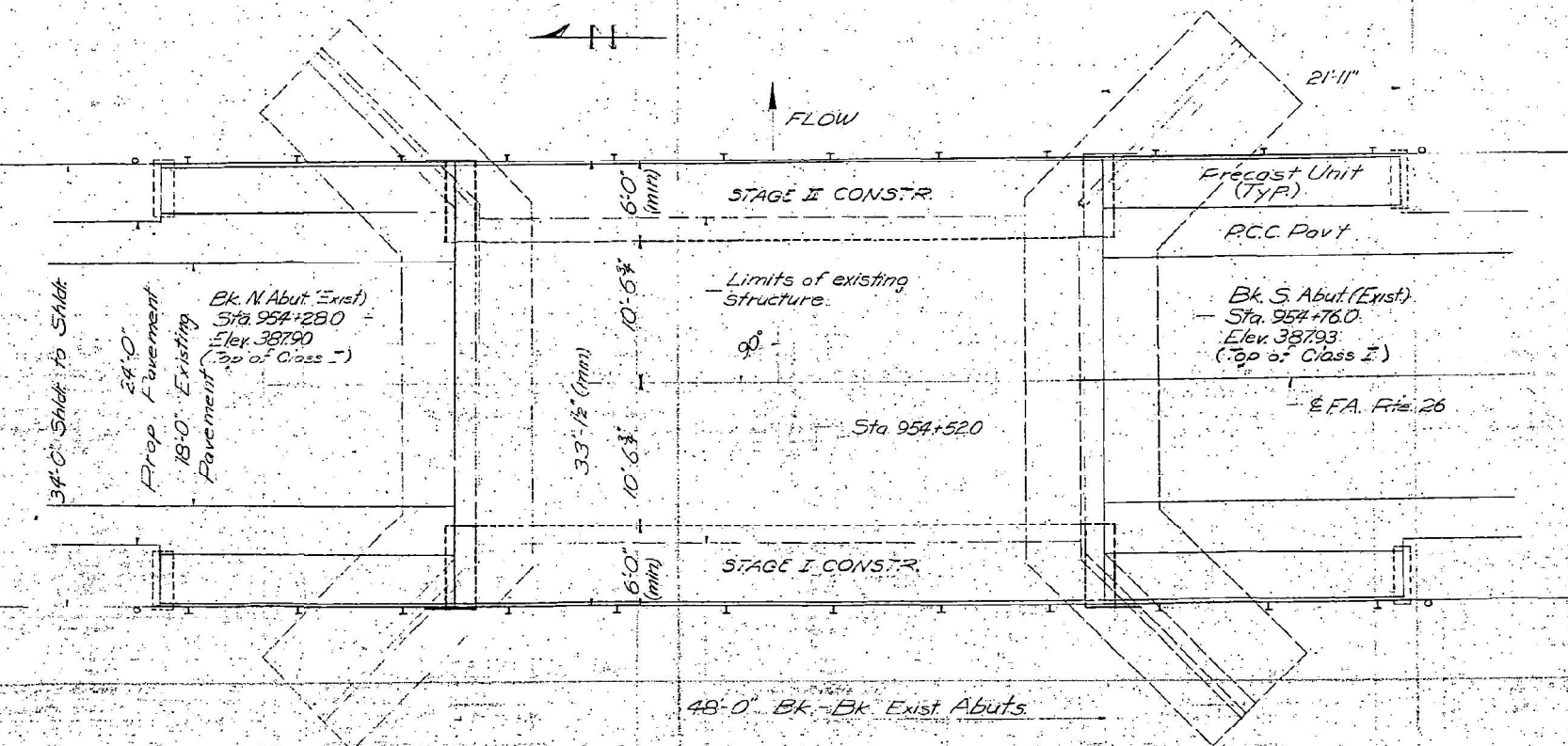
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	SHEET NO.
140	105	WHITE	9	5	5 SHEETS
FED. ROAD DIST. NO. 7					



GENERAL NOTES

All reinforcement bars shall be lappped 24" minimum
unless otherwise shown.
It shall be the responsibility of the Contractor to
verify all dimensions and conditions existing in the
field prior to construction and ordering of materials.
Expansion joints shall consist of self-aligning expansion
anchors and 1/2" hooked bars hooked into 3'-0\"/>



TOTAL BILL OF MATERIAL

ITEM	UNIT	Suppl.	S.B.	TOTAL
5\"/>	Sq. Yds.	22		22
* Waterproofing Membrane System	Sq. Yds.	186		186
Portland Cement Concrete Pavement (10\"/>	Sq. Yds.	37		37
Pavement Fabric	Sq. Yds.	37		37
Concrete Removal	Cu. Yds.	9		9
Expansion Joints (1/2\"/>	Each	56	124	180
Class 2 Concrete	Cu. Yds.		21.9	21.9
Precast Concrete Bridge Slab	Sq. Ft.	329		329
Precast Prestressed Conc. Deck Beams (21\"/>	Sq. Ft.	570		570
Steel Reinforcing, Type 3	Lbs.	184		184
Reinforcement Bars	Lbs.		710	710
Temporary Guardrail	Ln. Ft.	43		43
5\"/>	Sq. Yds.	113		113
* Portland Cement Mortar Facing Conc.	Ln. Ft.	192		192

* See Special Provisions.

WATERWAY INFORMATION

Drainage Area: 17.52 miles
Character: rolling, clay, wooded, cultivated
Present Opening: Main Structure 325 sq. ft.
Over-flow Culvert 150 sq. ft.
Required Opening: Total 475 sq. ft.
Proposed Opening: Total 475 sq. ft.
Q₁₀₀: 3200 cfs
All Time H.W. Elev. = 387.4 (1950)

PLAN

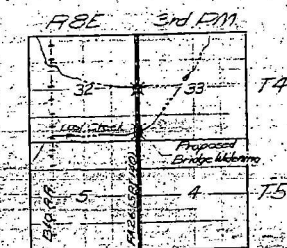
DESIGN STRESSES

FIELD UNITS	PRECAST UNITS
f _c = 1000 psi (Sub)	f _c = 4500 psi
f _s = 20000 psi (Feinf)	f _c = 1800 psi
n = 10	f _s = 20000 psi
	n = 8

PRECAST PRESTRESSED UNITS

f _c = 5000 psi
f _c = 4000 psi
f _s = 270,000 psi 16 # Strands
f _s = 188,700 psi 16 # Strands

LOADING HS20-44 (New Constr.)



LOCATION SKETCH

GENERAL PLAN & ELEVATION
FA RTE 68 (SBI 140) over LOST CREEK
FA RTE 68 (SBI 140) - SEC 105-BY-2
WHITE COUNTY
STA 954+520

Revised 4-21-77
Revised 8-16-78

DESIGNED	W.H.
CHECKED	W.H.
DRAWN	J. SCHMIDT
CHECKED	n/h

EXAMINED	M. J. 12/24
PASSED	W. J. 12/24
APPROVED	R. Hanley



USER NAME = IRC
ESCA PROJECT NO. 1359.13
PLOT SCALE = 0.1667' / in.
PLOT DATE = 8/9/2024

DESIGNED - IRC
DRAWN - IRC
CHECKED - ELH
DATE - 09/23

REVISED -
REVISED -
REVISED -
REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

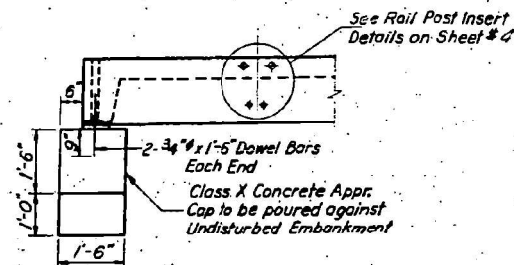
SN 097-0023 EXISTING STRUCTURE PLANS
FOR INFORMATION ONLY

SCALE: AS SHOWN SHEET NO. 1 OF 7 SHEETS STA. TO STA.

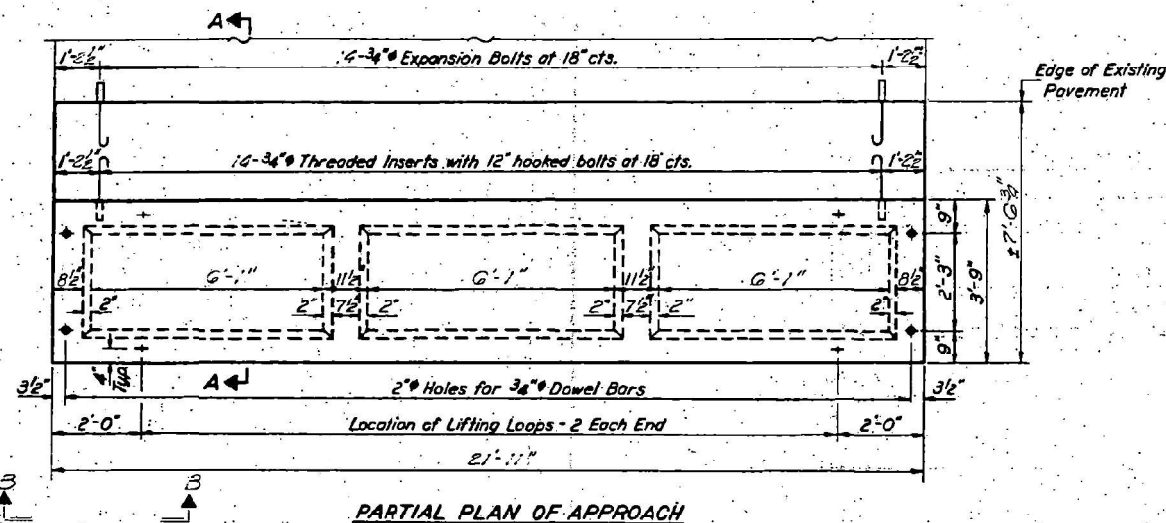
F&P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
328	105B-3	WHITE	71	59
CONTRACT NO. 78833				
ILLINOIS FED. AID PROJECT				

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

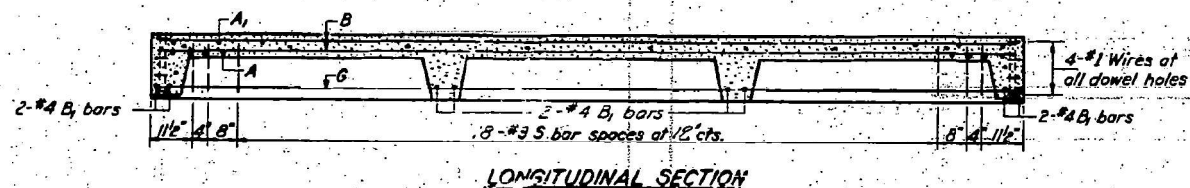
SHEET NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
140	105	WHITE	9	7
BY-2				



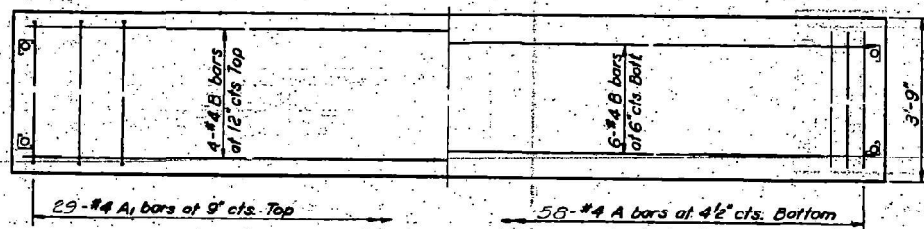
VIEW 3-3



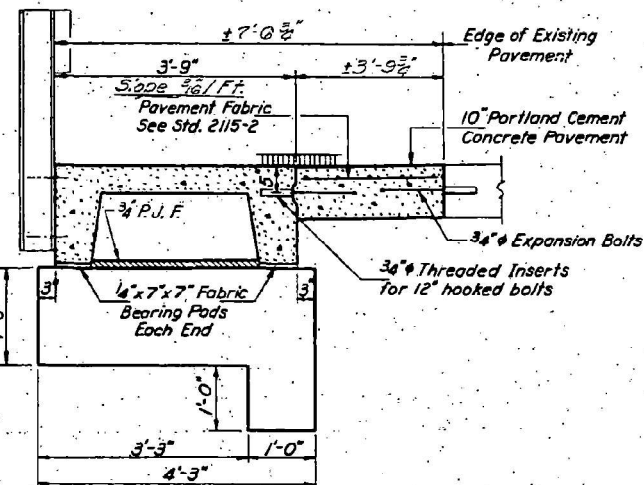
PARTIAL PLAN OF APPROACH



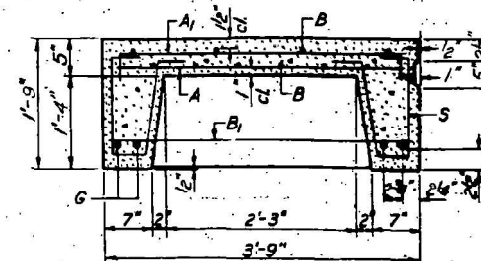
LONGITUDINAL SECTION



SLAB REINFORCEMENT



SECTION A-A



SECTION THRU PRECAST UNIT

BAR LIST - ONE UNIT

Bar	No	Size	Length	Shape
A	56	#4	3'-3"	
A ₁	29	#4	4'-0"	
B	10	#4	3'-6"	
B ₁	8	#4	3'-6"	
G	4	#10	2'-6"	
S	66	#3	3'-10"	

BAR A₁

BAR S

NOTES

Unless otherwise approved by the Engineer, lifting loops shall be 1/2 inch 6 x 19 class wire rope with fiber core and shall have a minimum ultimate strength of 18,700 lbs. Loops shall be burned off after slab has been erected. Holes shall be drilled and anchor dowels grouted in place. Cost of reinforcement and accessories cast into the slab unit, bearing pads, furnishing, drilling for, placing and grouting anchor dowels and 3/4 inch hooked bolts is included in unit bid price for "Precast Concrete Bridge Slab." The Precast Concrete Bridge Slab shall be erected and aligned with the exterior face of the exterior Deck Beam after Deck Beams are in final position.

FOUR APPROACHES

BILL OF MATERIAL

Item	Unit	Quantity
Precast Concrete Bridge Slab	Sq. Ft.	32.9
Portland Cement Concrete Pavement (10)	Sq. Yds.	37
Pavement Fabric	Sq. Yds.	37
Expansion Bolts 3/4 inch	Each	56
Class X Concrete	Cu. Yds.	1.6

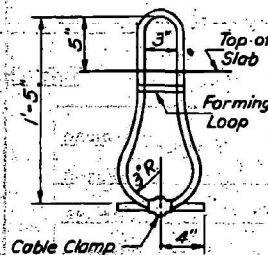
APPROACH DETAILS

FA. RT. 26 SEC 105-BY-2
WHITE COUNTY
STA. 954+52.00

STRESSES

f_c = 4,500 psi.
f_t = 1,800 psi.
f_s = 20,000 psi.
n = 8

LOADING HS-20



LIFTING LOOP DETAIL

DESIGNED	W. F. C.
CHECKED	W. F. C.
DRAWN	J. SCHNEIDER
CHECKED	W. F. C.

EXAMINED	W. F. C.
PASSED	W. F. C.
APPROVED	W. F. C.

DIRECTOR OF HIGHWAYS

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SN 097-0023 EXISTING STRUCTURE PLANS
FOR INFORMATION ONLY

SCALE: AS SHOWN SHEET NO. 3 OF 7 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
328	105B-3	WHITE	71	61
CONTRACT NO. 78833				

ILLINOIS FED. AID PROJECT



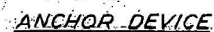
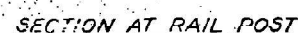
USER NAME = IRC
ESCA PROJECT NO. 1359.13
PLOT SCALE = 0.1667' / 1" in.
PLOT DATE = 8/9/2024

DESIGNED - IRC
DRAWN - IRC
CHECKED - ELH
DATE - 09/23

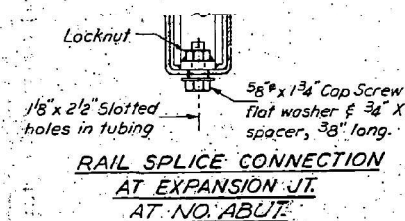
REVISED -
REVISED -
REVISED -
REVISED -

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
R. 140	105	WHITE	9	8
P. A.	BY-2			

SHEET NO. 4
5 SHEETS



* Threaded areas shall be plugged or blocked off during casting of beam.



Hollow structural steel tubing shall conform to the requirements of A.S.T.M. designation A-500 Grade B or A-501 Structural Steel Tubing.

All other steel shapes and plates shall conform to the requirements of A.S.T.M. designation A-36 except posts shall conform to A-570 A-36.

Bolts, cap screws, and nuts shall conform to the requirement of A.S.T.M. designation A-307 except for high strength bolts, nuts and washers noted which shall conform to A-570 designation A-193.

All bolts, nuts, cap screws, washers and lock washers shall be galvanized in accordance with A-540 designation A-32.

All posts, railing, rail splices, anchor devices and angles shall be galvanized after shop fabrication in accordance with A-540 A-193 and A-574 A-385. Galvanized rail shall not be painted.

Railing shall be in accordance with Section 508 of the Standard Specifications, except as noted, and shall be paid for at the contract unit price per linear foot for STEEL RAILING, TYPE 5.

All field drilled holes shall be coated with an approved zinc rich paint before erection.

The lower portion of the post flange in contact with concrete shall receive two coats of asphalt paint conforming to Section 714.08 Type B or place 1/2" fabric bearing pad between the post and concrete.

The 3/4" high strength bolts used to connect the 6 x 4 x 3/4 angles to the post shall be tightened in accordance with Article 710.11 of the Standard Specifications. The 1" high strength bolts connecting the angles to the concrete shall be tightened to a snug fit and given an additional 1/2 turn.

Item	Unit	Quantity
Steel Railing, Type S	Lin. Ft.	184

TYPE S
STEEL RAILING
F.A. RT 20 SEC 105 BY-2
WHITE COUNTY
STA 954+52.00

PLAN - BOTT. SPLICE RE
TYPICAL

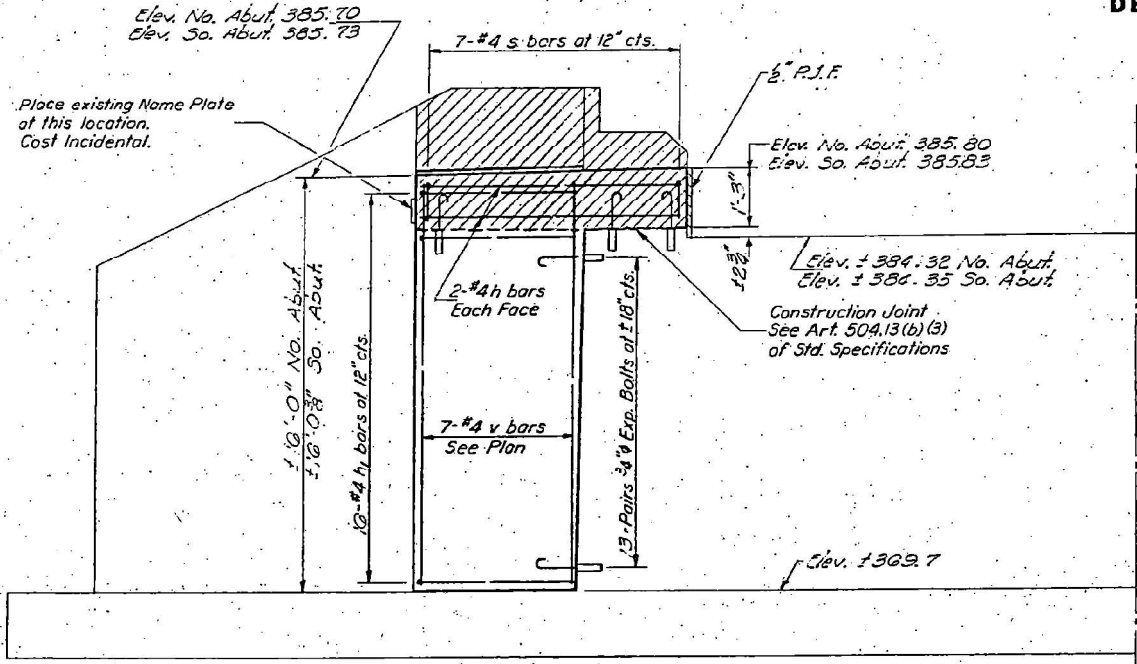
R-23 (12-10-71) (6'-3" Maximum Post Spacing)

DESIGNED	<i>J. D. Scheller</i>
CHECKED	<i>W. H. Henry</i>
DRAWN	<i>J. SCHNELLER</i>
CHECKED	<i>W. H.</i>

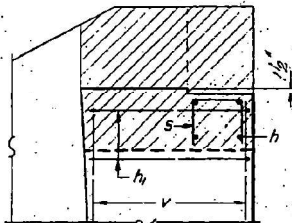
MARCH 2 1974
 EXAMINED *[Signature]*
 PASSED *W. B. Beauman*
 APPROVED *Henry C. Stanley*
 DIRECTOR OF HIGHWAYS
 at Cheyenne

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

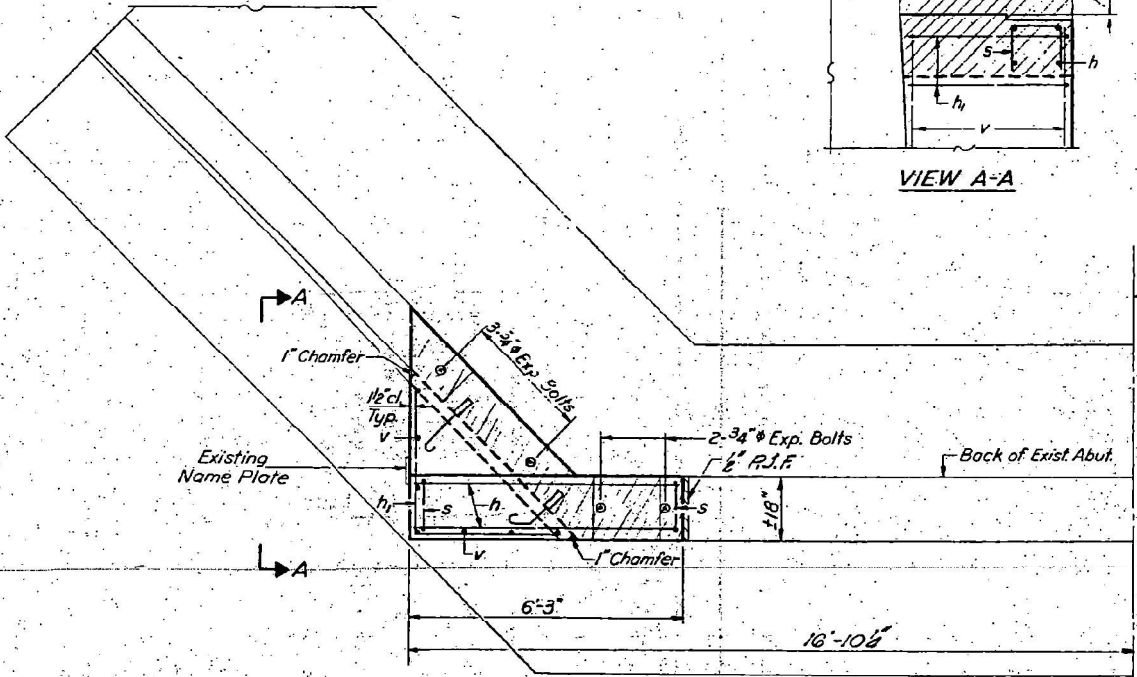
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
140	105	WHITE	9	9
BY 2				
SHEETS				



ELEVATION



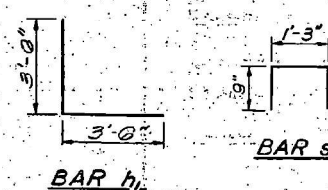
VIEW A-A



PLAN

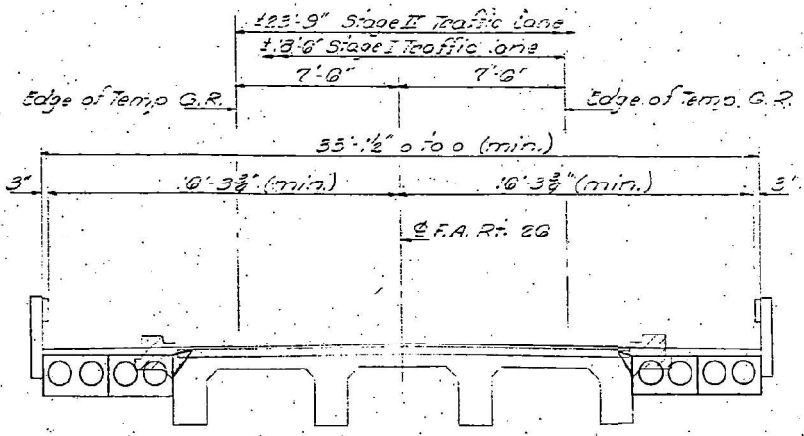
DESIGNED *[Signature]*
CHECKED *[Signature]*
DRAWN J. SCHNEIDER
CHECKED *[Signature]*

EXAMINED *[Signature]*
PASSED *[Signature]*
APPROVED *[Signature]*
DIRECTOR OF HIGHWAYS

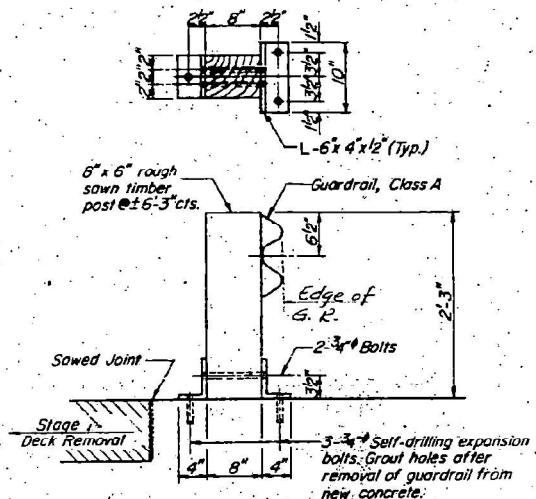


Symm. about
E. Rdwy.

Symm. about
E. Rdwy.



CROSS SECTION
(Showing Stage Construction)



TEMPORARY GUARDRAIL DETAIL

See Special Provisions
Repair damaged waterproofing
overlap 1st stage waterproofing
with 2nd stage waterproofing.

NOTES:
Hatched area indicates Concrete Removal. Reinforcement
extending into removed area shall be cleaned and incorporated
into the new construction.
Expansion bolts shall be anchored in sound concrete.
All edges shall have standard 3/4" chamfers except as
noted.

TWO ABUTMENTS
BILL OF MATERIAL

Bar	No.	Size	Length	Shape
h	16	#4	6'-0"	
h ₁	64	#4	7'-5"	L
s	28	#4	2'-9"	□
v	28	#4	15'-5"	
Class X Concrete			Cu. Yds.	20.3
Reinforcement Bars			Lbs.	71.0
Expansion Bolts 3/4"			Each	25
Concrete Removal			Cu. Yds.	4

ABUTMENTS
F.A. RT. 2G SEC. 105-3Y-2
WHITE COUNTY
STA. 954+52.00



USER NAME = IRC
ESCA PROJECT NO. 1359.13
PLOT SCALE = 0.1667" / 1'
PLOT DATE = 8/9/2024

DESIGNED - IRC
DRAWN - IRC
CHECKED - ELH
DATE - 09/23

REVISED -
REVISED -
REVISED -
REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SN 097-0023 EXISTING STRUCTURE PLANS
FOR INFORMATION ONLY

SCALE: AS SHOWN SHEET NO. 5 OF 7 SHEETS STA. TO STA.

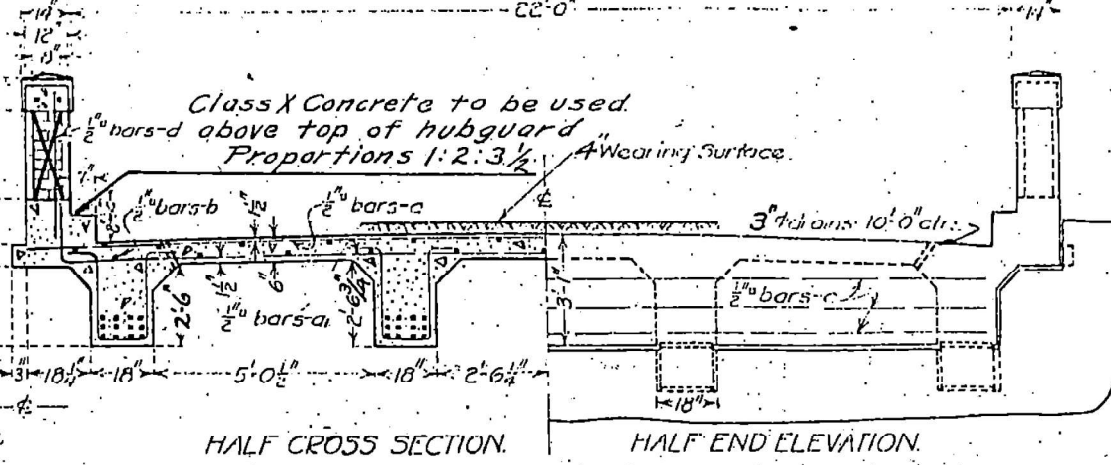
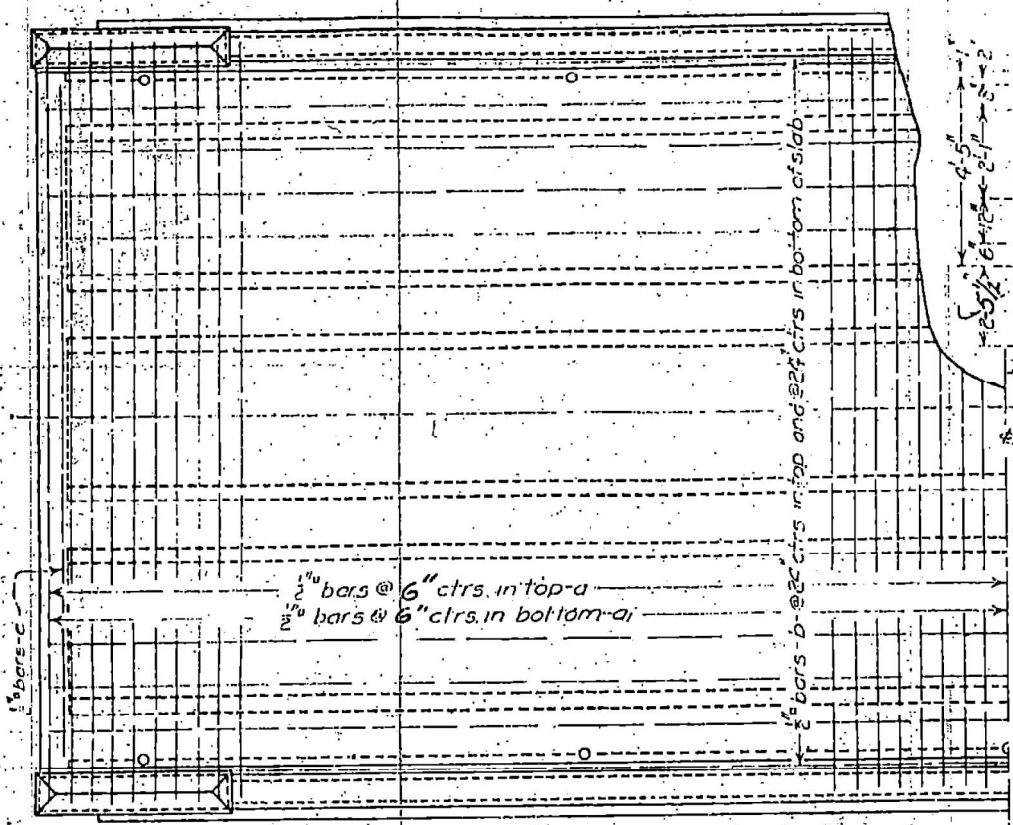
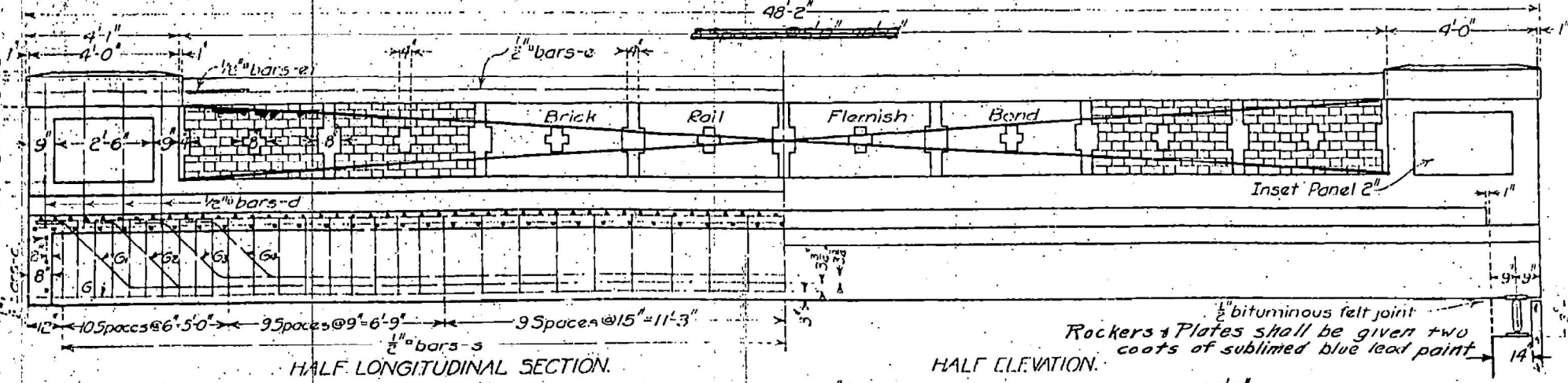
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
328	105B-3	WHITE	71	63
CONTRACT NO. 78833				

ILLINOIS FED. AID PROJECT

STATE OF ILLINOIS
DEPARTMENT OF PUBLIC WORKS & BUILDINGS
DIVISION OF HIGHWAYS
REINFORCED CONCRETE DECK GIRDER
SPAN 45 FEET ROADWAY 22 FEET

ROAD ISSUE ROUTE NO.	COUNTY	SEC.	TOTAL SHEETS	SHEET NO.
140	White	105B	72	71

SHEET NO. 3 SHEETS

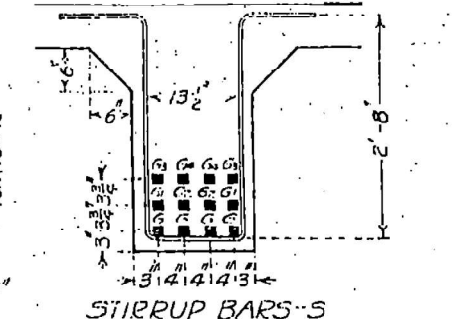
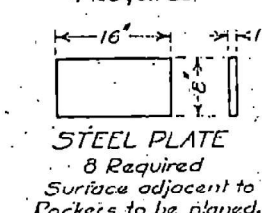
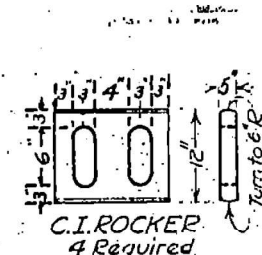


SPINDEL RAIL
BILL OF MATERIAL

Bars	No	Size	Length
a1	96	1/2"	24'-0"
a2	96	1/2"	24'-0"
b	46	1/2"	25'-0"
c	6	1/2"	21'-0"
d	80	1/2"	3'-6"
e	8	1/2"	13'-6"
f	8	1/2"	6'-0"
g	16	1/4"	47'-6"
h	8	1/4"	49'-0"
i	8	1/4"	46'-0"
j	8	1/4"	43'-0"
k	8	1/4"	40'-0"
l	4	1/2"	12'-3"
m	228	1/2"	8'-0"

Reinforcing Steel-Lbs	18650
Class A Concrete-Cu Yds	56.5
Class X Concrete	7.4
7 C.I. Rockers-Lbs	800
8 Steel Plates-Lbs	290
2" R.C. Pavement-Sq Yds	172
Name Plate	1

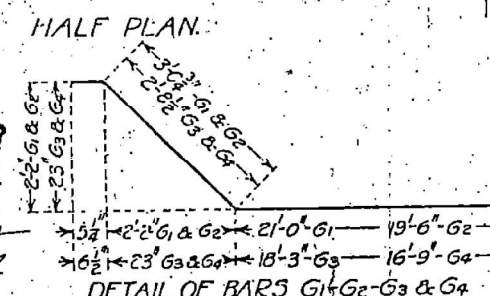
Class A Concrete to be used below top of hubguard. Proport: ns 1:2 1/2:4.



Lost Creek Bridge
S.B.I. Rte. 140 Sect. 105-B
White County
Station 954+52

STANDARD	COMPUTED - 2K B. N. HAVEN
CHECKED - C. C. WOOD	
DRAWN - J. B. D.	
CHECKED - J. B. D.	
ASSEMBLED - J. B. D.	
CHECKED - J. E. GRAHAM	

EXAMINED - J. B. D.	June 14, 28
PASSED - J. B. D.	
APPROVED - J. B. D.	
DESIGNED - J. B. D.	



1007

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SN 097-0023 EXISTING STRUCTURE PLANS
FOR INFORMATION ONLY

SCALE: AS SHOWN SHEET NO. 6 OF 7 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
328	105B-3	WHITE	71	64
CONTRACT NO. 78833				
ILLINOIS FED. AID PROJECT				



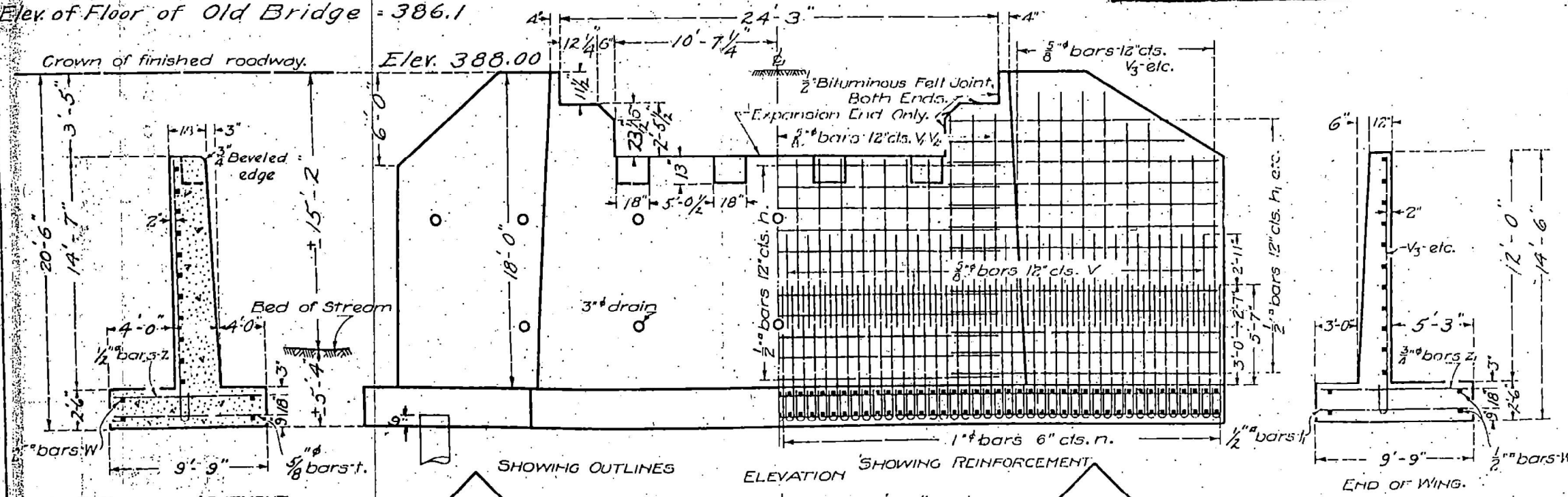
USER NAME - IRC	DESIGNED - IRC	REVISED -
ESCA PROJECT NO. 1359.13	DRAWN - IRC	REVISED -
PLOT SCALE - 0.1667' / in.	CHECKED - ELH	REVISED -
PLOT DATE - 8/9/2024	DATE - 10/23	REVISED -

BM. #68 S. & W. in dead Maple tree left
Sta. 968+45 Elev. 384.78
Existing Structure, Steel truss, 48' Span, 14' Rdy.
to be removed by Bridge Contractor.
Elev. of Floor of Old Bridge = 386.1

STATE OF ILLINOIS
DEPARTMENT OF PUBLIC WORKS AND BUILDINGS
DIVISION OF HIGHWAYS
R. C. ABUTMENTS FOR DECK GIRDER BRIDGE
HEIGHT OVER ALL 20 FEET 6 INCHES

Sheet No. 3
35 sheets.

ROUTE NO.	COUNTY	SEC.	TOTAL SHEETS	SHEET NO.
140	White	105B	72	71

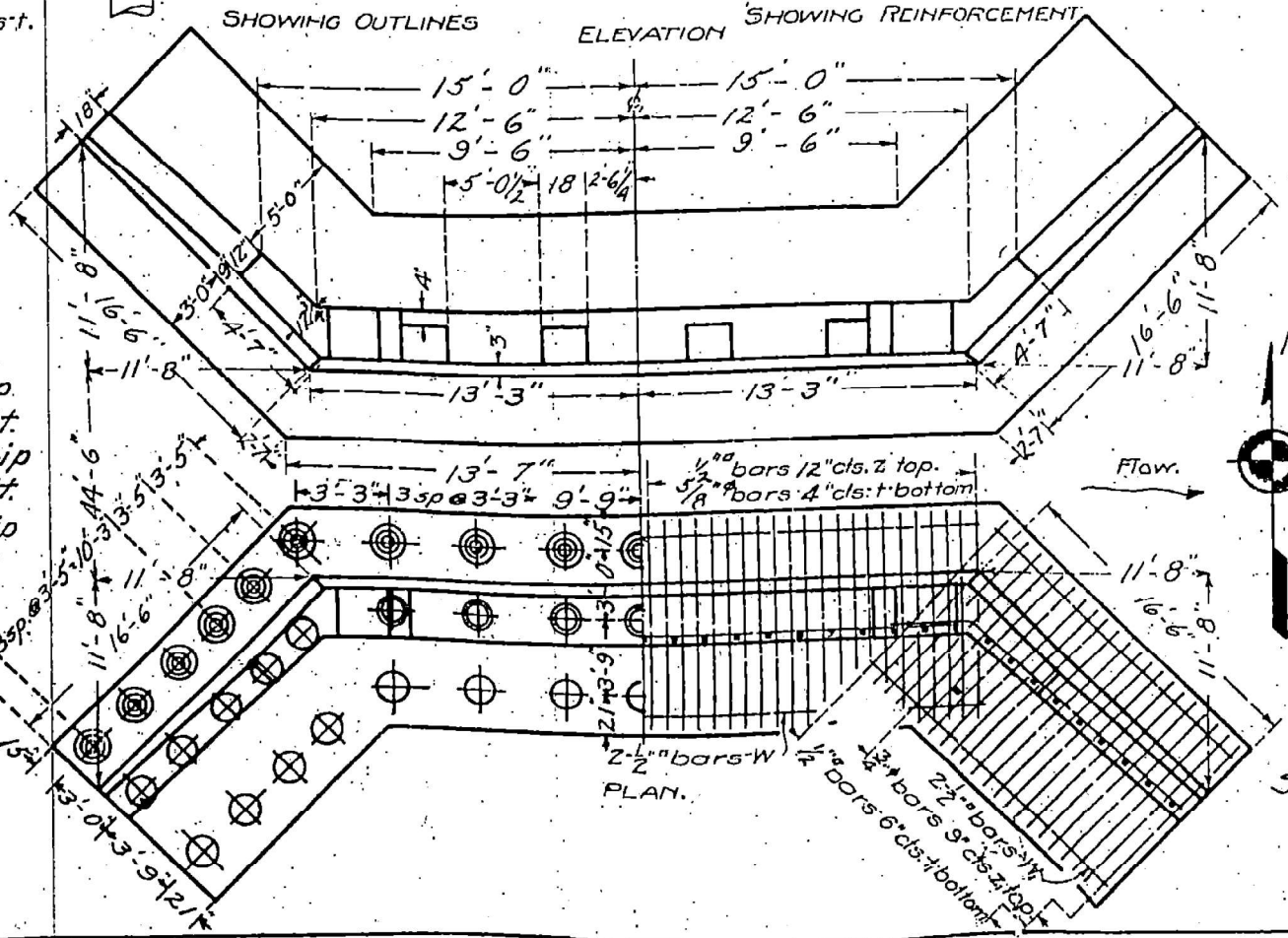


Class A concrete shall be used throughout.
Proportions: 1:2 1/2:4.
All reinforcing steel shall be securely wired in place before concrete is poured.

- 15T. Unt. Piles 12" butt 10" tip
38 Req. 760 Est. Lin. Ft.
- 12T. Unt. Piles 12" butt 10" tip
14 Req. 280 Est. Lin. Ft.
- 10T. Unt. Piles 10" butt 8" tip
50 Req. 750 Est. Lin. Ft.

COMPUTED	C. C. Wood
CHECKED	401 Burke
DRAWN	401 Burke
CHECKED	C. C. W.
ASSEMBLED	H. R. Graham
CHECKED	J. E. Graham

EXAMINED June 14, 1928
PASSED
APPROVED



BILL OF MATERIAL			
Bars	No.	Size	Length
V	174	3/8"	3'-6"
V1	42	3/8"	11'-6"
V2	8	3/8"	13'-6"
V3	20	3/8"	14'-6"
V4	8	3/8"	13'-6"
V5	12	3/8"	12'-0"
V6	12	3/8"	10'-6"
h	30	1/2"	25'-0"
h1	40	1/2"	17'-6"
h2	12	1/2"	14'-6"
h3	8	1/2"	8'-6"
7	224	1/2"	9'-9"
7	164	3/4"	9'-6"
h	152	1/2"	9'-6"
z	54	1/2"	9'-6"
z1	88	3/4"	9'-6"
V7	12	3/4"	9'-0"
W	8	1/2"	27'-0"
W1	16	1/2"	19'-0"
Reinforcing Steel-Lbs. 14560			
Concrete-Cu.Yds. 199.2			

Lost Creek Bridge
S.B.I. Rte. 140 Sect. 105-B
White County
Station 954+52

1156

MODEL: PLOT
FILE NAME: Y:\DOT\1359-13_78833\CADD\Highway\CADD Sheets\0978833-rlt-com.107.dgn



USER NAME	= IRC
ESCA PROJECT NO.	1359.13
PLOT SCALE	= 0.1667' / in.
PLOT DATE	= 8/9/2024

DESIGNED	- IRC
DRAWN	- IRC
CHECKED	- ELH
DATE	- 10/23

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

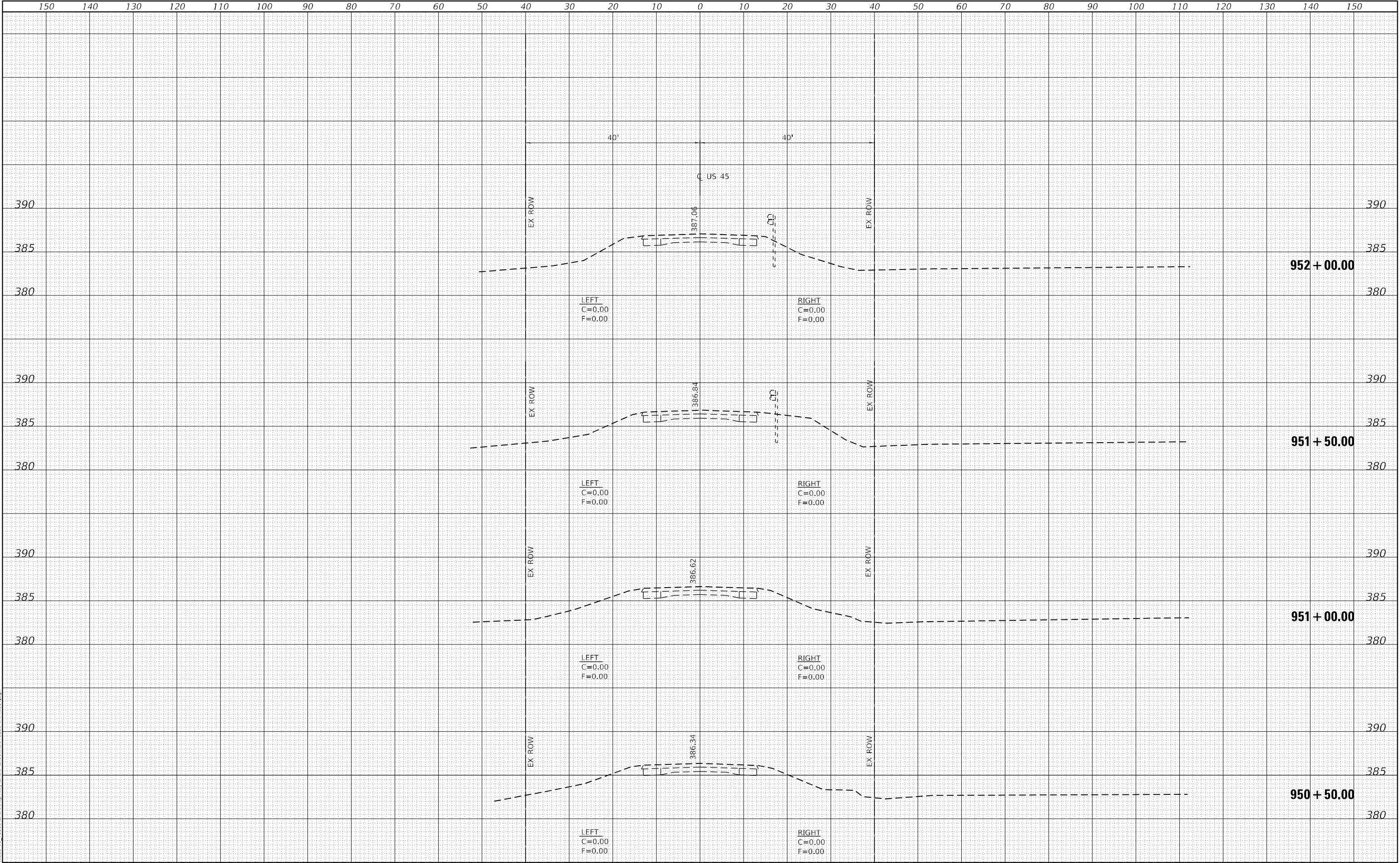
SN 097-0023 EXISTING STRUCTURE PLANS
FOR INFORMATION ONLY
SCALE: AS SHOWN SHEET NO. 7 OF 7 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
328	105B-3	WHITE	71	65
CONTRACT NO. 78833				
ILLINOIS FED. AID PROJECT				

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

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

MODEL Default
FILE NAME: T:\DOT\1359-13-78833\CADD\Highway\CADD Sheets\950+50.00.dgn



USER NAME = IRC	DESIGNED - ATN	REVISED -
ESCA PROJECT NO. 1359,13	DRAWN - JPC/ATN	REVISED -
PLOT SCALE = 20,0000 ' / in.	CHECKED - ELH	REVISED -
PLOT DATE = 8/9/2024	DATE - 04/24	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

US 45 CROSS SECTIONS

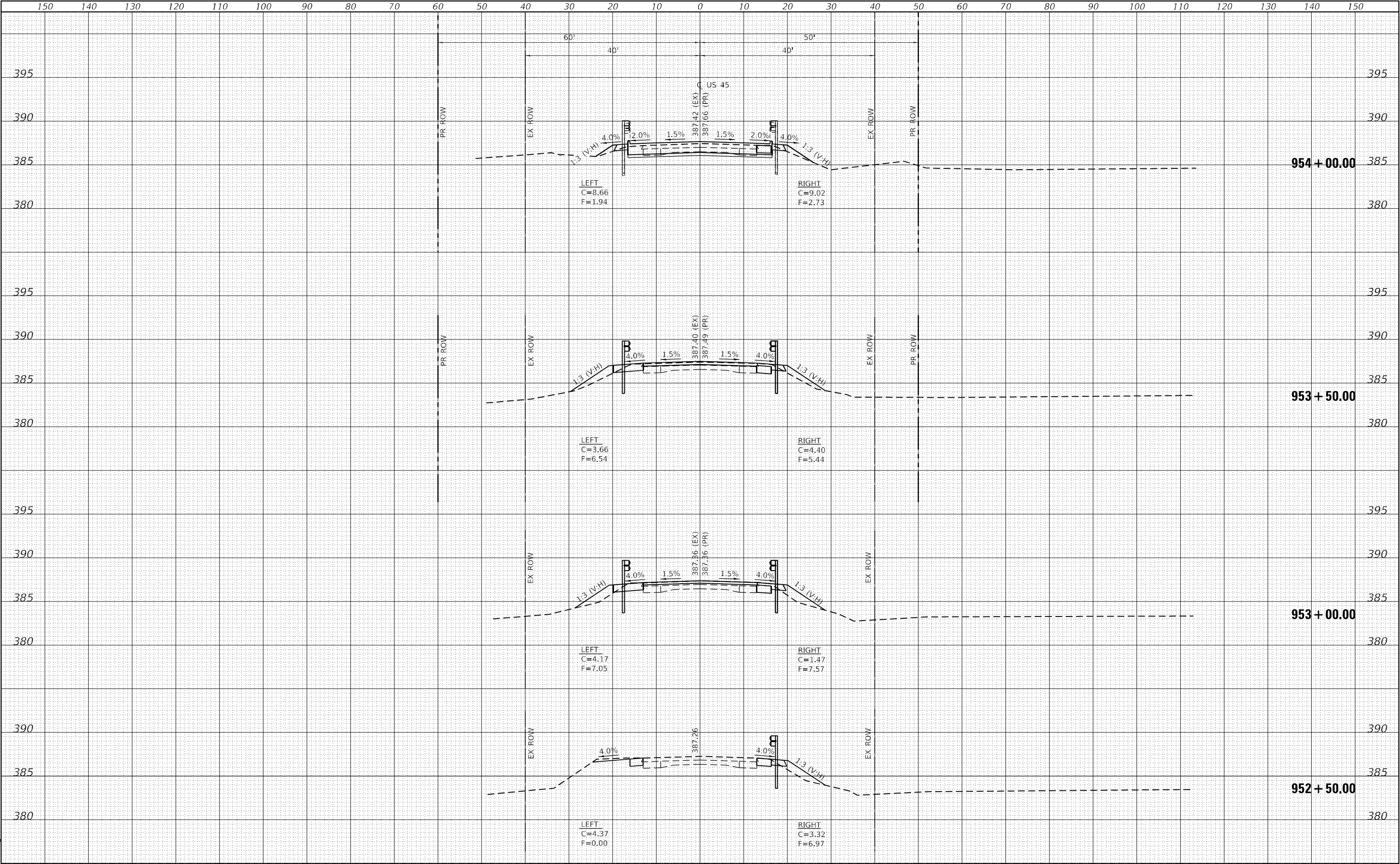
SCALE: AS SHOWN SHEET NO. 1 OF 6 SHEETS STA. 950+50.00 TO STA. 952+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	328	1058-3	WHITE 71	66
CONTRACT NO. 78833				
ILLINOIS FED. AID PROJECT				

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

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

MODEL Default
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USER NAME = IRC	DESIGNED - ATN	REVISED -
ESCA PROJECT NO. 1359,13	DRAWN - JPC/ATN	REVISED -
PLOT SCALE = 20,0000 ' / in.	CHECKED - ELH	REVISED -
PLOT DATE = 8/9/2024	DATE - 04/24	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

US 45 CROSS SECTIONS

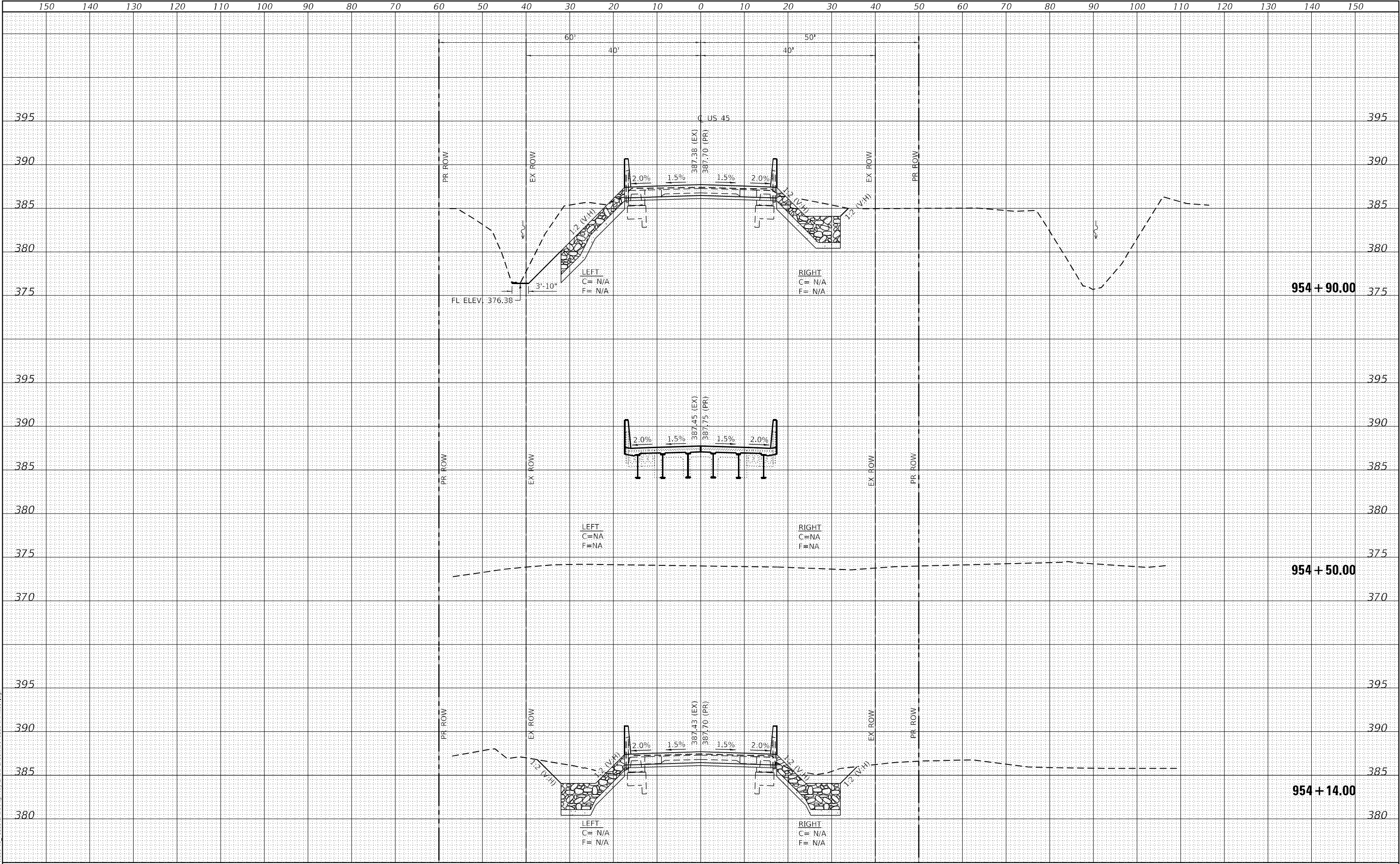
SCALE: AS SHOWN SHEET NO. 2 OF 6 SHEETS STA. 952+50.00 TO STA. 954+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
328	1058-3	WHITE	71	67
CONTRACT NO. 78833				
ILLINOIS FED. AID PROJECT				

FINAL SURVEY	SURVEYED	DATE
	PLOTTED	BY
	TEMPLATE	
	AREAS CHECKED	
NO.		

ORIGINAL SURVEY	SURVEYED	DATE
	PLOTTED	BY
	TEMPLATE	
	AREAS CHECKED	
NO.		

MODEL Default
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USER NAME = IRC
ESCA PROJECT NO. 1359,13
PLOT SCALE = 20,0000 * / in.
PLOT DATE = 8/9/2024

DESIGNED - ATN
DRAWN - JPC/ATN
CHECKED - ELH
DATE - 08/24

REVISED -
REVISED -
REVISED -
REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

US 45 CROSS SECTIONS

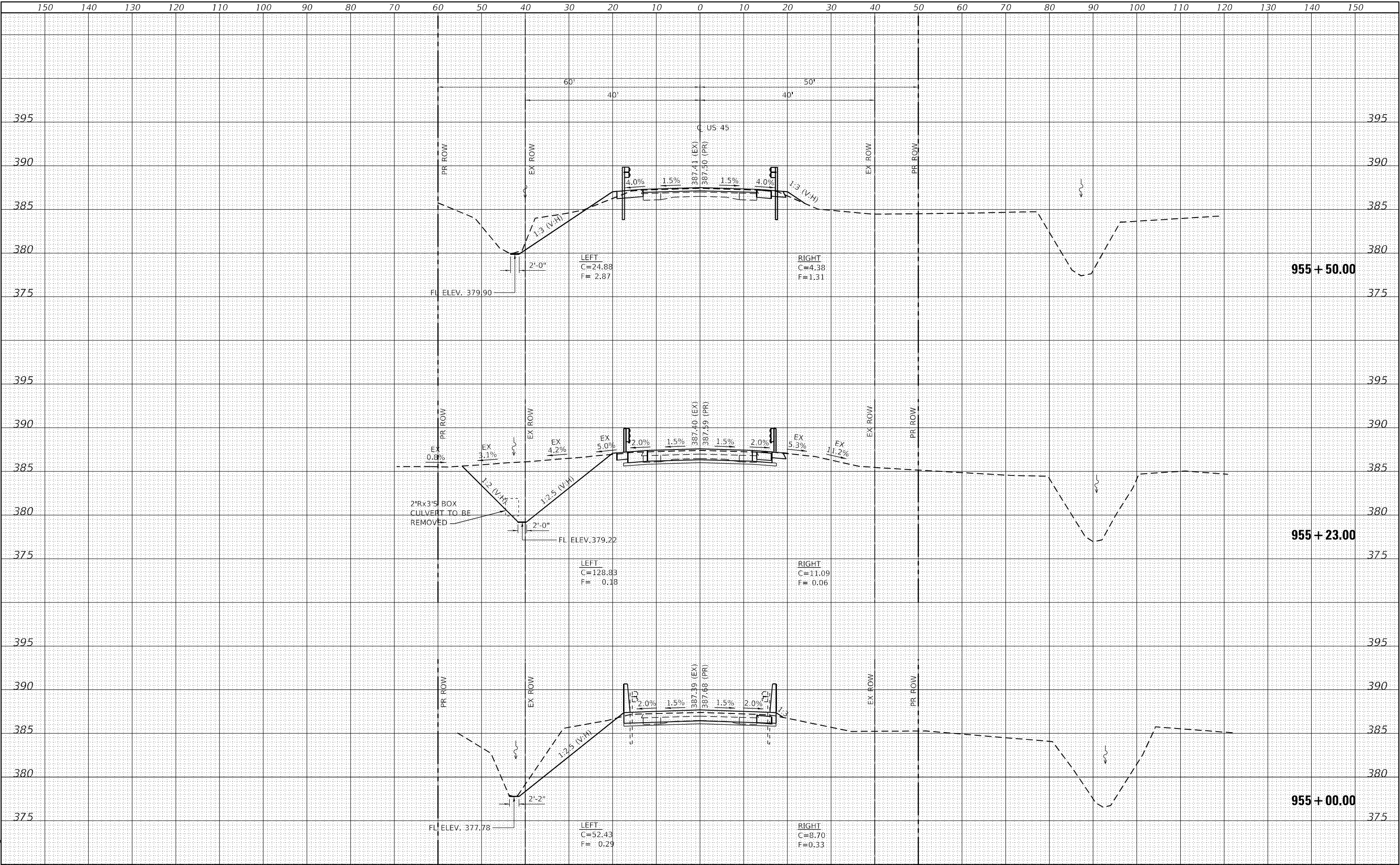
SCALE: AS SHOWN SHEET NO. 3 OF 6 SHEETS STA. 954+14.00 TO STA. 954+90.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
328	1058-3	WHITE	71	68
CONTRACT NO. 78833				
ILLINOIS FED. AID PROJECT				

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

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

MODEL: Default
FILE NAME: T:\DOT\1359-13-78833\CADD\Highway\CADD Sheet\955+00.dgn



USER NAME = IRC
ESCA PROJECT NO. 1359.13
PLOT SCALE = 20,0000 * / in.
PLOT DATE = 8/9/2024

DESIGNED - ATN
DRAWN - JPC/ATN
CHECKED - ELH
DATE - 04/24

REVISED -
REVISED -
REVISED -
REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

US 45 CROSS SECTIONS

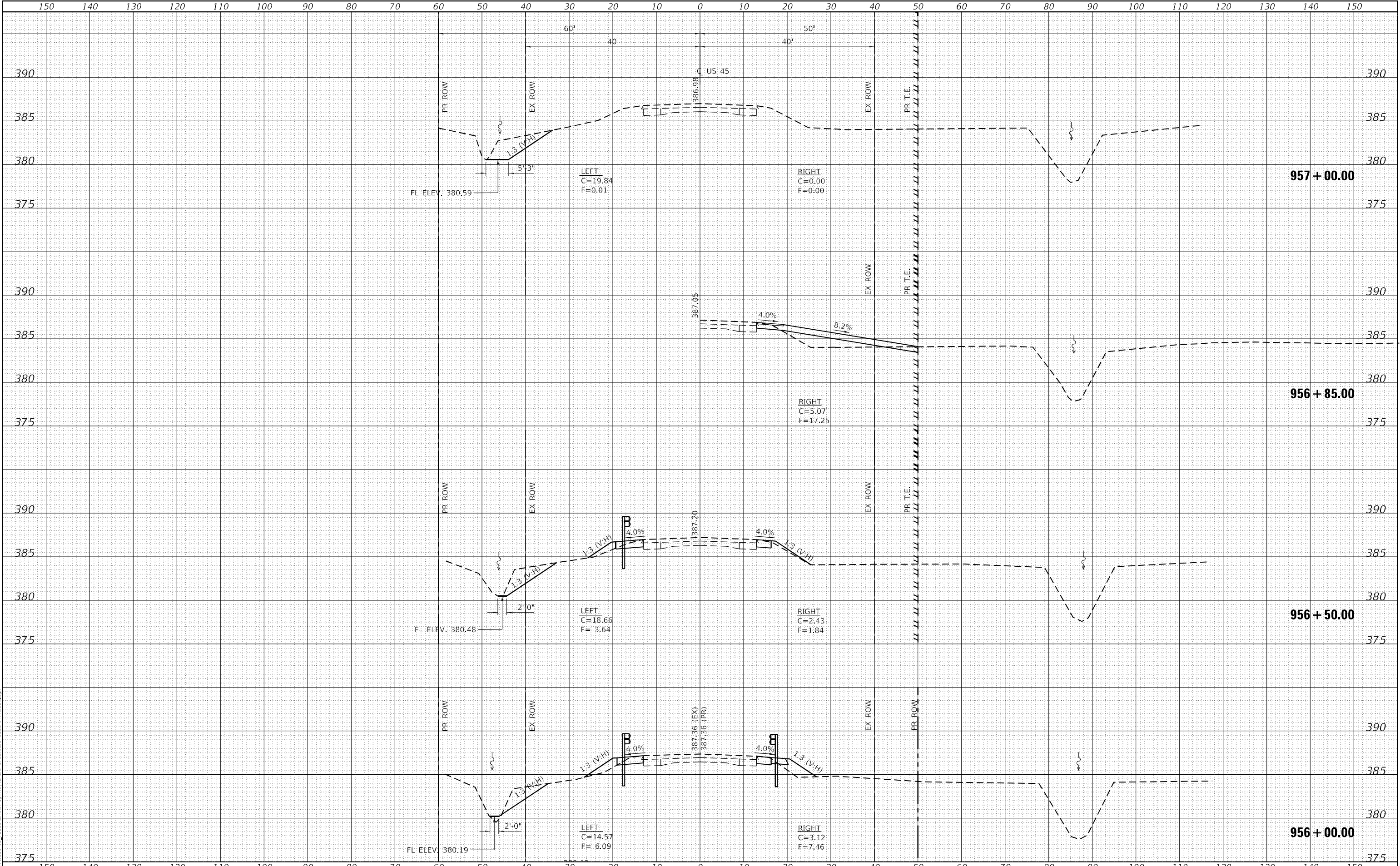
SCALE: AS SHOWN SHEET NO. 4 OF 6 SHEETS STA. 955+00.00 TO STA. 955+50.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
328	1058-3	WHITE	71	69
CONTRACT NO. 78833				
ILLINOIS FED. AID PROJECT				

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

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

MODEL: Default
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USER NAME = IRC	DESIGNED - ATN/IRC	REVISED -
ESCA PROJECT NO. 1359.13	DRAWN - JPC/ATN/IRC	REVISED -
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PLOT DATE = 8/16/2024	DATE - 04/24	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

US 45 CROSS SECTIONS

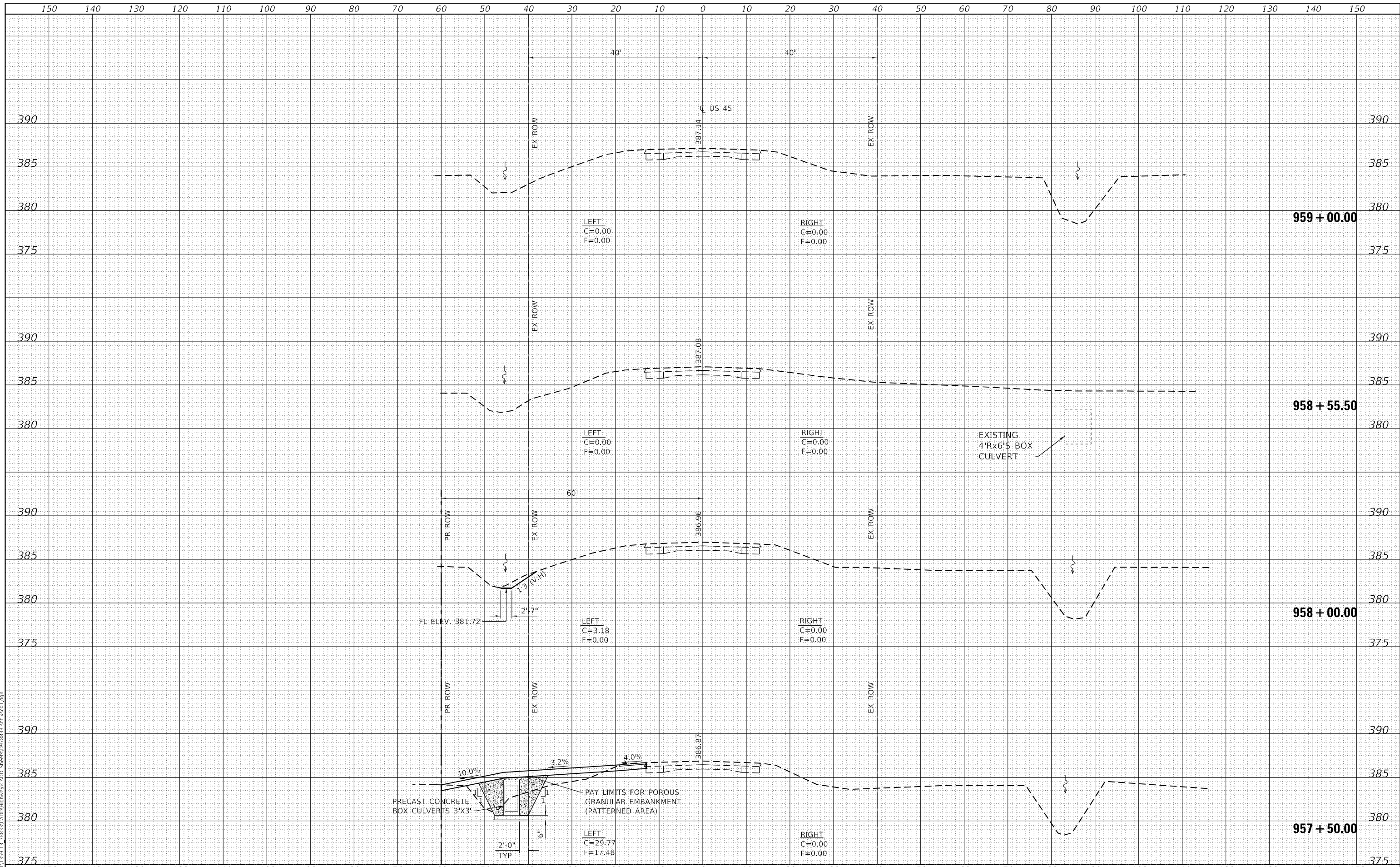
SCALE: AS SHOWN SHEET NO. 5 OF 6 SHEETS STA. 956+00.00 TO STA. 957+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
328	1058-3	WHITE	71	70
CONTRACT NO. 78833				
ILLINOIS FED. AID PROJECT				

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

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

MODEL: Default
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USER NAME = IRC	DESIGNED - ATN/IRC
ESCA PROJECT NO. 1359,13	DRAWN - JPC/ATN/IRC
PLOT SCALE = 20,0000 ' / in.	CHECKED - ELH
PLOT DATE = 8/9/2024	DATE - 04/24

DESIGNED -	ATN/IRC	REVISED -
DRAWN -	JPC/ATN/IRC	REVISED -
CHECKED -	ELH	REVISED -
DATE -	04/24	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

US 45 CROSS SECTIONS

SCALE: AS SHOWN	SHEET NO. 6 OF 6 SHEETS	STA. 957+50.00 TO STA. 959+00.00
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F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
328	105B-3	WHITE	71	71
		CONTRACT NO. 78833		
		ILLINOIS	FED. AID PROJECT	

ILLINOIS	FED. AID PROJECT
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