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IDOT HIGHWAY STANDARDS

- 000001-06 STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS
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- 606201-03 TYPE B GUTTER (INLET, OUTLET & ENTRANCE)
- 630001-11 STEEL PLATE BEAM GUARDRAIL
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- 630301-07 SHOULDER WIDENING FOR TYPE 1 (SPECIAL) GUARDRAIL TERMINALS
- 631032-09 TRAFFIC BARRIER TERMINAL, TYPE 6A
- 701001-02 OFF-RD OPERATIONS, 2L, 2W, MORE THAN 15' AWAY
- 701006-05 OFF-RD OPERATIONS, 2L, 2W, 15' (4.5m) TO 24" (600mm) FROM PAVEMENT EDGE
- 701011-04 OFF-RD OPERATIONS MOVING OPERATIONS, 2L, 2W, DAY ONLY
- 701201-04 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
- 701321-16 LANE CLOSURE, 2L, 2W, BRIDGE REPAIR WITH BARRIER
- 701326-04 LANE CLOSURE, 2L, 2W, PAVEMENT WIDENING, FOR SPEEDS = 45 MPH
- 701901-06 TRAFFIC CONTROL DEVICES
- 704001-08 TEMPORARY CONCRETE BARRIER
- 720006-04 SIGN PANEL ERECTION DETAILS
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- 782006 GUARDRAIL AND BARRIER WALL REFLECTOR MOUNTING DETAILS

HIGHWAY TRAFFIC DATA:

F.A.S. ROUTE 2905 (IL. ROUTE 37)
DESIGN SPEED = 55 MPH
POSTED SPEED = 55 MPH
ADT = 6940 (2007), 8460 (2024)
DHV = 694 (2007), 846 (2024)
15% TRUCKS

DESIGN DESIGNATION : MAJOR COLLECTOR (NON-URBAN)

**COORDINATE SYSTEM: ILLINOIS STATE PLANE,
NAD83, EAST ZONE, (HORIZONTAL)
NAVD88 (VERTICAL)**

POSTED SPEED : 55 MPH

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

PROJECT ENGINEER: DAVID PICHE, P.E. (618) 351-5227

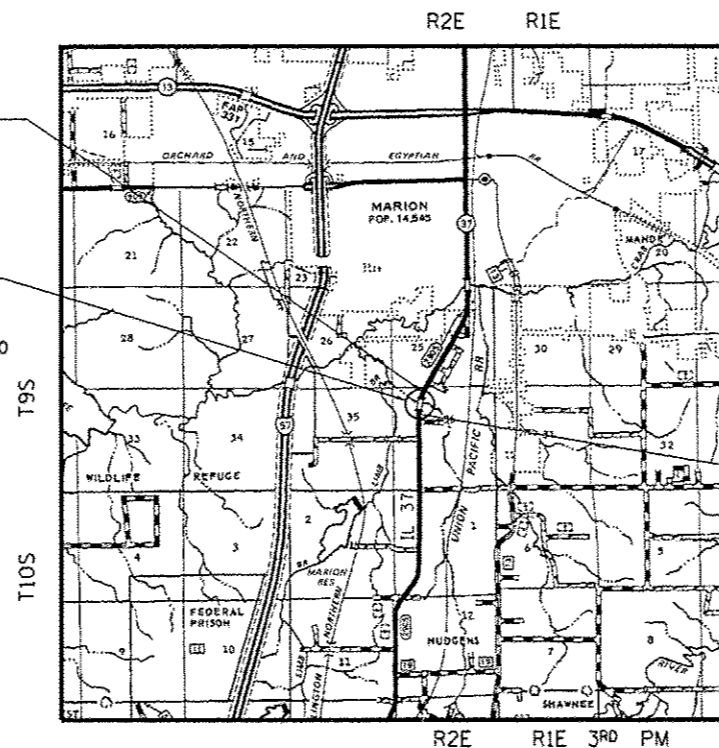
CONTRACT NO. 98855

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**PROPOSED
HIGHWAY PLANS**

**F.A.S. ROUTE 2905 (IL. ROUTE 37)
SECTION 113B-1
PROJECT STP-2905(001)
STRUCTURE REPLACEMENT
WILLIAMSON COUNTY**

C-99-059-09



BEGIN ROADWAY IMPROVEMENTS STA. 125+20.00

END ROADWAY IMPROVEMENTS STA. 128+30.00

LOCATION MAP



GROSS LENGTH = 310 .00 FT. = 0.06 MILES
NET LENGTH = 310 .00 FT. = 0.06 MILES



SIGNATURE: *Matthew J. Overbey*

DATE SIGNED: 01/31/2017

LICENSE EXPIRATION DATE: 11/30/2017

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2905	113B-1	WILLIAMSON	39	1
ILLINOIS			CONTRACT NO. 98855	

D-99-011-04



STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUBMITTED March 15 20 17
Jeffrey Keen
REGION FIVE ENGINEER
May 12 20 17
Muhammad M. Addis
ENGINEER OF DESIGN AND ENVIRONMENT
May 12 20 17
Amel Al-Qasbi
DIRECTOR OF PROGRAM DEVELOPMENT

**PRINTED BY THE AUTHORITY
OF THE STATE OF ILLINOIS**



MIXTURE REQUIREMENTS

LOCATION(S):	HOT-MIX ASPHALT SHOULDERS (TOP LIFT)
MIXTURE USE(S):	HOT-MIX ASPHALT SHOULDERS, IL-9.5L
AC/PG:	PG64-22
ABR % (MAX.):	See Special Provision
DESIGN AIR VOIDS:	4.0%, 30 GYRATION DESIGN
MIXTURE COMPOSITION: (GRADATION MIXTURE)	IL-9.5L
FRICTION AGGREGATE	NONE
QUALITY MANAGEMENT PROGRAM:	QC/QA

LOCATION(S):	HOT-MIX ASPHALT SHOULDERS (LOWER LIFTS)
MIXTURE USE(S):	HOT-MIX ASPHALT SHOULDERS, IL-19.0L
AC/PG:	PG64-22
ABR % (MAX.):	See Special Provision
DESIGN AIR VOIDS:	4.0%, 30 GYRATION DESIGN
MIXTURE COMPOSITION: (GRADATION MIXTURE)	IL-19.0L
FRICTION AGGREGATE	NONE
QUALITY MANAGEMENT PROGRAM:	QC/QA

LOCATION(S):	HOT-MIX ASPHALT SURFACE COURSE
MIXTURE USE(S):	HOT-MIX ASPHALT SURFACE COURSE, MIX D, N70
AC/PG:	PG64-22
ABR % (MAX.):	See Special Provision
DESIGN AIR VOIDS:	4.0%, 70 GYRATION DESIGN
MIXTURE COMPOSITION: (GRADATION MIXTURE)	IL-9.5mm
FRICTION AGGREGATE	D SURFACE
QUALITY MANAGEMENT PROGRAM:	QC/QA

LOCATION(S):	HOT-MIX ASPHALT BINDER & HOT-MIX ASPHALT WIDENING
MIXTURE USE(S):	HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N70
AC/PG:	PG64-22
ABR % (MAX.):	See Special Provision
DESIGN AIR VOIDS:	4.0%, 70 GYRATION DESIGN
MIXTURE COMPOSITION: (GRADATION MIXTURE)	IL-19.0mm
FRICTION AGGREGATE	NONE
QUALITY MANAGEMENT PROGRAM:	QC/QA

LOCATION(S):	HOT-MIX ASPHALT LEVELING BINDER
MIXTURE USE(S):	HOT-MIX ASPHALT LEVELING BINDER, N70, IL-9.5mm FINE GRADED
AC/PG:	PG64-22
ABR % (MAX.):	See Special Provision
DESIGN AIR VOIDS:	4.0%, 70 GYRATION DESIGN
MIXTURE COMPOSITION: (GRADATION MIXTURE)	IL-9.5mm FINE GRADED
FRICTION AGGREGATE	NONE
QUALITY MANAGEMENT PROGRAM:	QC/QA

GENERAL NOTES

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

ALL HOT-MIX ASPHALT	2.016 TONS/CU.YD.
ALL AGGREGATE	2.05 TONS/CU.YD.
EARTH	110 LBS/CU.YD.
RIPRAP	1.50 TONS/CU.YD.
- THE THICKNESS OF HOT-MIX ASPHALT MIXTURE SHOWN ON THE PLANS IS THE NOMINAL THICKNESS. DEVIATIONS FROM THE NOMINAL THICKNESS WILL BE PERMITTED WHEN SUCH DEVIATIONS OCCUR DUE TO IRREGULARITIES IN THE EXISTING SURFACE OR BASE ON WHICH THE HOT-MIX ASPHALT MIXTURE IS PLACED.
- IF SO DIRECTED BY THE ENGINEER, DITCHES ADJACENT TO EMBANKMENTS SHALL BE CONSTRUCTED PRIOR TO STARTING THE CONSTRUCTION OF THE EMBANKMENT FILL.
- TREES SHALL BE PRESERVED THROUGHOUT THIS SECTION AS SHOWN ON THE PLANS AND AS DIRECTED BY THE ENGINEER. GENERALLY, TREES OUTSIDE THE CLEAR ZONE, AND WHICH DO NOT INTERFERE WITH CONSTRUCTION, SHALL NOT BE DISTURBED.
- TRIM EDGES OF EXISTING HOT-MIX ASPHALT SURFACE FLUSH WITH EXISTING PAVEMENT PRIOR TO CONSTRUCTING NEW BASE COURSE WIDENING.
- THE TOP 4 INCHES OF EMBANKMENT SURFACE MATERIAL SHALL BE COHESIVE, CAPABLE OF SUPPORTING VEGETATIVE GROWTH, AND TO THE SATISFACTION OF THE ENGINEER. THIS WORK SHALL BE INCLUDED IN THE CONTRACT UNIT PRICE PER CUBIC YARD FOR FURNISHED EXCAVATION, AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED.
- ATTAINMENT OF PROPER CROWN OR SUPERELEVATION SHALL BE FULLY ACCOMPLISHED WITH THE HOT-MIX ASPHALT SURFACE REMOVAL OR HOT-MIX ASPHALT BINDER COURSE OR LEVELING BINDER, WHEN SPECIFIED.
- 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.
- THE QUANTITY OF SHORT TERM PAVEMENT MARKING SHOWN IN THE PLANS IS BASED ON ONE APPLICATION EACH FOR THE BINDER COURSE AND SURFACE COURSE.
- THE QUANTITY OF TEMPORARY PAVEMENT MARKING SHOWN IN THE PLANS IS BASED ON ONE APPLICATION FOR THE SURFACE COURSE.
- PRIOR TO PLACEMENT OF THE FINAL PAVEMENT MARKINGS THE RESIDENT ENGINEER SHOULD CONTACT THE BUREAU OF OPERATIONS AND ARRANGE FOR INSPECTION AND APPROVAL OF THE PAVEMENT MARKING LAYOUT.
- THE CENTERLINE PAVEMENT MARKING SHOULD BE REMOVED FROM THE STOP BAR TO THE SAND ATTENUATORS OR DRUMS. EDGE LINE PAVEMENT MARKING SHOULD BE REMOVED IF A 10 FOOT LANE WIDTH CANNOT BE MAINTAINED. TEMPORARY EDGE LINES SHOULD BE INSTALLED WHEN THE EDGE LINES ARE REMOVED.
- ANY TIME THE CONCRETE BARRIER IS NOT IN THE PROPER POSITION, FLAGGERS SHALL BE IN PLACE TO CONTROL TRAFFIC. THE TEMPORARY TRAFFIC SIGNALS SHALL BE SET TO FLASH ALL RED.
- ALL EROSION CONTROL MEASURES SHALL BE LEFT IN PLACE UNTIL REMOVAL IS REQUIRED TO CONSTRUCT FINAL GRADE LINES.
- THE ALGEBRAIC DIFFERENCE BETWEEN THE PAVEMENT AND SHOULDER SLOPES SHALL NOT EXCEED 10%. THE SHOULDER ON THE OUTSIDE OF SUPERELEVATED CURVES SHALL BE FLATTENED ACCORDINGLY.
- IF THE CONTRACTOR ELECTS TO USE P.C.C. BASE COURSE WIDENING, SUCH WIDENING SHALL BE PRIMED ACCORDING TO ARTICLE 406.02, EXCEPT THIS WORK WILL NOT BE PAID FOR SEPARATELY BUT SHALL BE INCLUDED IN THE COST OF THE WIDENING.
- FORMS FOR (CONCRETE GUTTER; CONCRETE CURB; COMBINATION CONCRETE CURB AND GUTTER), IF NOT SLIPFORMED AS PER ART. 606.05, SHALL BE OF METAL ONLY, EXCEPT THAT WOOD FORMS MAY BE USED ON SHORT RADIUS CURVES.

GENERAL NOTES (CONTINUED)

- PROTECTIVE COAT SHALL BE APPLIED TO ALL GUTTER FLAGS, FACE OF CURB, AND MEDIAN SURFACE AS NEEDED ACCORDING TO THE SEASONAL REQUIREMENTS OF ARTICLE 420.18.
- AFTER A LIFT OF HOT MIX ASPHALT HAS BEEN PLACED, THE LANE SHALL REMAIN CLOSED TO TRAFFIC IN ACCORDANCE WITH ARTICLE 701.17(c)(4) AND UNTIL THE NEW MAT HAS COOLED TO 150 DEGREES FAHRENHEIT.
- THERE ARE NO AVAILABLE WASTE SITES ON THE EXISTING RIGHT OF WAY WITHIN THE PROJECT LIMITS. DISPOSAL WILL BE THE RESPONSIBILITY OF THE CONTRACTOR AND WASTE MUST BE DISPOSED OF IN ACCORDANCE WITH ARTICLE 202.03 OF THE STANDARD SPECIFICATIONS.

COMMITMENTS

- NONE IDENTIFIED AS OF 03/24/2017

Prepared By: [Signature]
DISTRICT STUDIES & PLANS ENGINEER

Examined By: [Signature]
DISTRICT LAND ACQUISITION ENGINEER

Examined By: [Signature]
DISTRICT PROGRAM DEVELOPMENT ENGINEER

Examined By: [Signature]
DISTRICT OPERATIONS ENGINEER

Examined By: [Signature]
DISTRICT PROJECT IMPLEMENTATION ENGINEER

Examined By: [Signature]
DISTRICT CONSTRUCTION ENGINEER

Examined By: [Signature]
DISTRICT MATERIALS ENGINEER

SUMMARY OF QUANTITIES			RURAL, WILLIAMSON COUNTY	
			ROUTE: FAS 2905, IL 37	
CODE NO.			FUNDING: 80% FEDERAL, 20% STATE	
			S. N. 100-2024	
ITEM DESCRIPTION			CONSTRUCTION CODE: 0014	
			QUANTITY	
UNIT				
20200100	EARTH EXCAVATION	CU YD	100	
20201200	REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL	CU YD	241	
20300100	CHANNEL EXCAVATION	CU YD	100	
20400800	FURNISHED EXCAVATION	CU YD	467	
20700220	POROUS GRANULAR EMBANKMENT	CU YD	300	
21001000	GEOTECHNICAL FABRIC FOR GROUND STABILIZATION	SQ YD	320	
25000210	SEEDING, CLASS 2A	ACRE	0.50	
25000350	SEEDING, CLASS 7	ACRE	0.50	
25000400	NITROGEN FERTILIZER NUTRIENT	POUND	66	
25000500	PHOSPHORUS FERTILIZER NUTRIENT	POUND	46	
25000600	POTASSIUM FERTILIZER NUTRIENT	POUND	46	
25000700	AGRICULTURAL GROUND LIMESTONE	TON	1.0	
25100115	MULCH, METHOD 2	ACRE	1.00	
25100630	EROSION CONTROL BLANKET	SQ YD	429	

SUMMARY OF QUANTITIES			RURAL, WILLIAMSON COUNTY	
			ROUTE: FAS 2905, IL 37	
CODE NO.			FUNDING: 80% FEDERAL, 20% STATE	
			S. N. 100-2024	
ITEM DESCRIPTION			CONSTRUCTION CODE: 0014	
			QUANTITY	
UNIT				
28000250	TEMPORARY EROSION CONTROL SEEDING	POUND	50	
28000305	TEMPORARY DITCH CHECKS	FOOT	48	
28000400	PERIMETER EROSION BARRIER	FOOT	623	
28100105	STONE RIPRAP, CLASS A3	SQ YD	14	
28100109	STONE RIPRAP, CLASS A5	SQ YD	184	
28200200	FILTER FABRIC	SQ YD	198	
35600716	HOT-MIX ASPHALT BASE COURSE WIDENING, 10"	SQ YD	364	
40600275	BITUMINOUS MATERIALS (PRIME COAT)	POUND	214	
40600290	BITUMINOUS MATERIALS (TACK COAT)	POUND	695	
40600637	LEVELING BINDER (MACHINE METHOD), 1L-9.5FG, N70	TON	108	
40600982	HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT	SQ YD	242	
40600990	TEMPORARY RAMP	SQ YD	154	
4063340	HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N70	TON	72	
42000060	WELDED WIRE REINFORCEMENT	SQ YD	214	

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SUMMARY OF QUANTITIES			RURAL, WILLIAMSON COUNTY	
			ROUTE: FAS 2905, IL 37	
CODE NO.			FUNDING: 80% FEDERAL, 20% STATE	
			S. N. 100-2024	
ITEM DESCRIPTION			CONSTRUCTION CODE: 0014	
			QUANTITY	
UNIT				
42000500	PORTLAND CEMENT CONCRETE PAVEMENT 10"	SO YD	214	
42001300	PROTECTIVE COAT	SO YD	269	
44000100	PAVEMENT REMOVAL	SO YD	258	
44000400	GUTTER REMOVAL	FOOT	286	
44213204	TIE BARS 3/4"	SO YD	54	
48203003	HOT-MIX ASPHALT SHOULDERS, 1 1/2"	SO YD	470	
48203029	HOT-MIX ASPHALT SHOULDERS, 8"	SO YD	429	
48203037	HOT-MIX ASPHALT SHOULDERS, 10"	SO YD	84	
50100100	REMOVAL OF EXISTING STRUCTURES	EACH	1	
50200100	STRUCTURE EXCAVATION	CU YD	255	
50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	33,100	
50800515	BAR SPLICERS	EACH	205	
50900200	STEEL RAILING, TYPE 2399	FOOT	80	
51500100	NAME PLATES	EACH	1	

1d

SUMMARY OF QUANTITIES			RURAL, WILLIAMSON COUNTY	
			ROUTE: FAS 2905, IL 37	
CODE NO.			FUNDING: 80% FEDERAL, 20% STATE	
			S. N. 100-2024	
ITEM DESCRIPTION			CONSTRUCTION CODE: 0014	
			QUANTITY	
UNIT				
52200010	TEMPORARY SHEET PILING	SO FT	799	
54003000	CONCRETE BOX CULVERTS	CU YD	194.4	
60600095	CLASS S1 CONCRETE (OUTLET)	CU YD	7.0	
60602800	CONCRETE GUTTER, TYPE B	FOOT	75	
* 63000001	STEEL PLATE BEAM GUARD RAIL, TYPE A, 6 FOOT POSTS	FOOT	100	
* 63100087	TRAFFIC BARRIER TERMINAL, TYPE 6A	EACH	4	
* 63100167	TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT	EACH	4	
63200310	GUARDRAIL REMOVAL	FOOT	409	
67000400	ENGINEER'S FIELD OFFICE, TYPE A	CAL MO	8	
67100100	MOBILIZATION	L SUM	1	
70100405	TRAFFIC CONTROL AND PROTECTION, STANDARD 701321	EACH	1	
70100450	TRAFFIC CONTROL AND PROTECTION, STANDARD 701201	L SUM	1	
70100500	TRAFFIC CONTROL AND PROTECTION, STANDARD 701326	L SUM	1	
70103815	TRAFFIC CONTROL SURVEILLANCE	CAL DA	8	

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* SPECIALTY ITEM

FILE NAME : ...Shae\0998855-sh-500.dgn	USER NAME : *USER*	DESIGNED - MJO	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SUMMARY OF QUANTITIES F.A.S. ROUTE 2905 (IL RTE. 37)		F.A.S. RTE. 2905	SECTION 113B-1	COUNTY WILLIAMSON	TOTAL SHEETS 39	SHEET NO. 6	
PLOT SCALE : *SCALE*	CHECKED - JMM	REVISED -	SCALE: N/A				SHEET NO. 4 OF 6 SHEETS	STA. N/A	TO STA. N/A	FED. ROAD DIST. NO. 7 [ILLINOIS] FED. AID PROJECT		
PLOT DATE : 2/15/2017	DATE : 02/01/2017	REVISED -										

SUMMARY OF QUANTITIES			RURAL, WILLIAMSON COUNTY	
			ROUTE: FAS 2905, IL 37	
			FUNDING: 80% FEDERAL, 20% STATE	
			S. N. 100-2024	
			CONSTRUCTION CODE: 0014	
			QUANTITY	
CODE NO.	ITEM DESCRIPTION	UNIT		
70106500	TEMPORARY BRIDGE TRAFFIC SIGNALS	EACH	1	
70106700	TEMPORARY RUMBLE STRIPS	EACH	6	
70300100	SHORT TERM PAVEMENT MARKING	FOOT	160	
70300150	SHORT TERM PAVEMENT MARKING REMOVAL	SO FT	54	
70300220	TEMPORARY PAVEMENT MARKING - LINE 4"	FOOT	2,613	
70400100	TEMPORARY CONCRETE BARRIER	FOOT	400.0	
70400200	RELOCATE TEMPORARY CONCRETE BARRIER	FOOT	312.5	
70600250	IMPACT ATTENUATORS, TEMPORARY (NON-REDIRECTIVE), TEST LEVEL 3	EACH	2	
70600350	IMPACT ATTENUATORS, RELOCATE (NON-REDIRECTIVE), TEST LEVEL 3	EACH	2	
* 72400100	REMOVE SIGN PANEL ASSEMBLY - TYPE A	EACH	6	
* 72501000	TERMINAL MARKER - DIRECT APPLIED	EACH	4	
* 78001110	PAINT PAVEMENT MARKING - LINE 4"	FOOT	3,400	
* 78100100	RAISED REFLECTIVE PAVEMENT MARKER	EACH	6	
* 78200005	GUARDRAIL REFLECTORS, TYPE A	EACH	24	

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* SPECIALTY ITEM

EARTHWORK

LOCATION			CHANNEL EXCAVATION (UNSUITABLE)	EARTH EXCAVATION	SHRINKAGE FACTOR FOR EARTH EXCAVATION	SUITABLE EARTH EXCAVATION ADJUSTED FOR SHRINKAGE	EMBANKMENT	EARTHWORK BALANCE WASTE (+) SHORTAGE (-)	SHRINKAGE FACTOR FOR FURNISHED EXCAVATION	FURNISHED EXCAVATION
STATION	TO	STATION	(CU YD)	(CU YD)	%	(CU YD)	(CU YD)	(CU YD)	%	(CU YD)
124+75.00	-	128+75.00		100	25	75	425	-350	25%	467
NOMINAL QUANTITY			100							
TOTALS			100	100		75	425	-350		467

SEEDING

STATION / LOCATION			SEEDING, CLASS 2A	SEEDING, CLASS 7	NITROGEN FERTILIZER NUTRIENT	PHOSPHORUS FERTILIZER NUTRIENT	POTASSIUM FERTILIZER NUTRIENT	AGRICULTURAL GROUND LIMESTONE	MULCH, METHOD 2	TEMPORARY EROSION CONTROL SEEDING	
STATION	TO	STATION	(ACRE)	(ACRE)	(POUND)	(POUND)	(POUND)	(TON)	(ACRE)	(POUND)	
124+75.00	-	126+50.94	LT	0.12	0.12	16	11	11	0.2	0.24	12
124+75.00	-	126+51.23	RT	0.13	0.13	17	12	12	0.3	0.26	13
126+99.06	-	128+75.00	LT	0.12	0.12	16	11	11	0.2	0.24	12
126+98.77	-	128+98.94	RT	0.13	0.13	17	12	12	0.3	0.26	13
TOTAL				0.50	0.50	66	46	46	1.0	1.00	50

EROSION CONTROL

LOCATION			PERIMETER EROSION BARRIER	EROSION CONTROL BLANKET	TEMPORARY DITCH CHECKS	STONE RIPRAP, CLASS A3	STONE RIPRAP, CLASS A5	FILTER FABRIC	
STATION	TO	STATION	(FOOT)	(SQ YD)	(FOOT)	(SQ YD)	(SQ YD)	(SQ YD)	
124+75.00	-	128+75.00	LT	319	289	36	7	92	99
124+75.00	-	128+75.00	RT	304	140	12	7	92	99
TOTALS				623	429	48	14	184	198

GUARDRAIL

LOCATION			STEEL PLATE BEAM GUARDRAIL, TYPE A, 6 FOOT POSTS	TRAFFIC BARRIER TERMINAL, TYPE 6A	TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT	REMOVE AND RE-ERECT TRAFFIC BARRIER TERMINAL, TYPE 1 SPECIAL, TANGENT	TERMINAL MARKER - DIRECT APPLIED	GUARDRAIL MARKERS, TYPE A	GUARDRAIL REMOVAL	
STATION	TO	STATION	(FOOT)	(EACH)	(EACH)	(EACH)	(EACH)	(EACH)	(FOOT)	
125+11.50	-	125+61.50	RT		1		1	2		
125+53.82	-	126+04.02	LT		1			2		
125+53.86	-	126+56.48	LT						103	
125+54.68	-	126+56.16	RT						102	
125+60.71	-	126+10.88	LT			1	1	2		
125+61.50	-	126+11.33	RT	50.0				2		
126+10.88	-	126+54.93	LT		1			2		
126+11.33	-	126+55.07	RT		1			2		
126+93.72	-	127+94.19	RT						101	
126+93.85	-	127+96.35	LT						103	
126+94.93	-	127+38.67	RT		1			2		
126+95.07	-	127+39.37	LT		1			2		
127+38.67	-	127+88.50	RT			1	1	2		
127+39.37	-	127+89.54	LT	50.0				2		
127+46.20	-	127+96.35	LT			1		2		
127+89.54	-	128+39.72	LT			1	1	2		
TOTALS				100.0	4	4	2	4	24	409

CONCRETE GUTTER AND REMOVAL

LOCATION			CONCRETE GUTTER, TYPE B	CLASS SI CONCRETE (OUTLET)	PROTECTIVE COAT	GUTTER REMOVAL
STATION	TO	STATION	(FOOT)	(CU YD)	(SQ YD)	(FOOT)
127+49.55	-	128+75.00	LT			130
127+50.47	-	128+98.95	RT			156
127+53.51	-	128+00.00	LT	3.5	20	
128+00.00	-	128+75.00	LT	75	15	
128+52.78	-	128+98.95	RT	3.5	20	
TOTALS			75	7.0	55	286

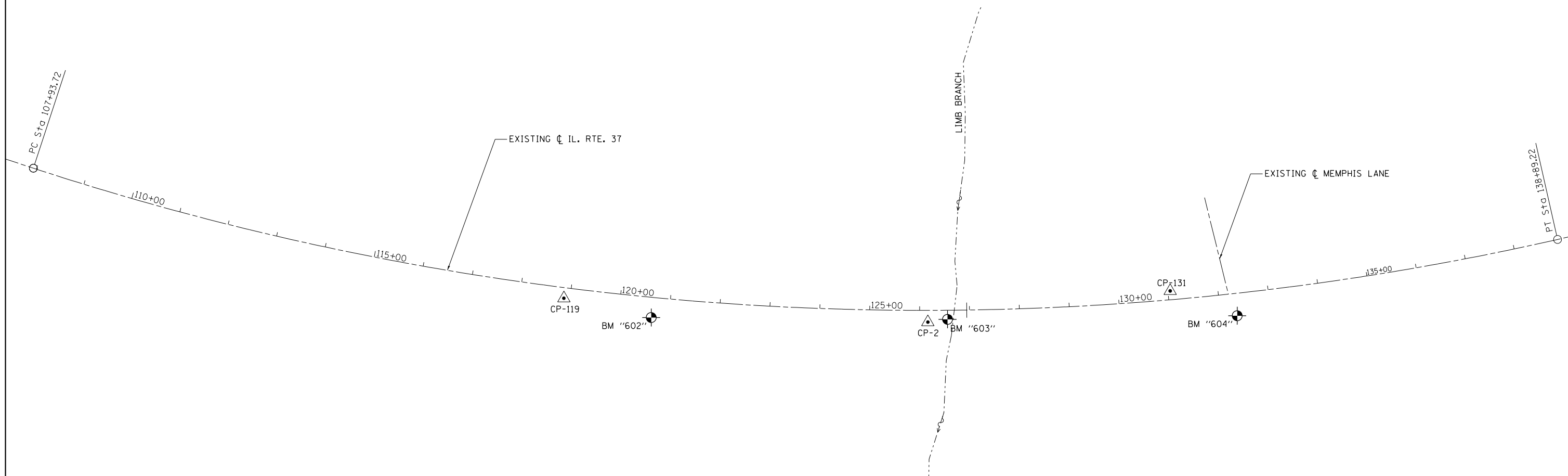
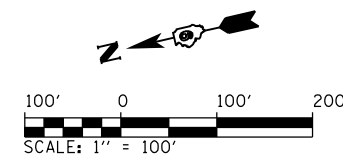
PAVEMENT AND SHOULDERS

LOCATION			HMA BASE COURSE WIDENING, 10"	BITUMINOUS MATERIALS (PRIME COAT)	BITUMINOUS MATERIALS (TACK COAT)	WELDED WIRE REINFORCEMENT	PORTLAND CEMENT CONCRETE PAVEMENT 10"	PROTECTIVE COAT	LEVELING BINDER (MACHINE METHOD), IL-9.5FG, N70	HMA SURFACE COURSE, MIX "D", N70	HMA SHOULDER, 1 1/2"	HMA SHOULDER, 8"	HMA SHOULDER, 10"	HMA SURFACE REMOVAL - BUTT JOINT	TEMPORARY RAMP	PAVEMENT REMOVAL
STATION	TO	STATION	(SQ YD)	(POUND)	(POUND)	(SQ YD)	(SQ YD)	(SQ YD)	(TON)	(TON)	(SQ YD)	(SQ YD)	(SQ YD)	(SQ YD)	(SQ YD)	(SQ YD)
124+75.00	-	126+35.00	176		298				30	36	277	177		121	77	
126+35.00	-	127+15.00	14	214	96	214	214	214	39			83	84			243
127+15.00	-	128+75.00	174		301				39	36	193	169		121	77	15
TOTALS			364	214	695	214	214	214	108	72	470	429	84	242	154	258

PAVEMENT MARKING

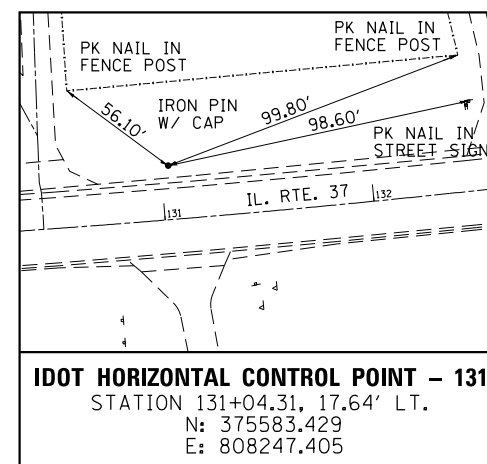
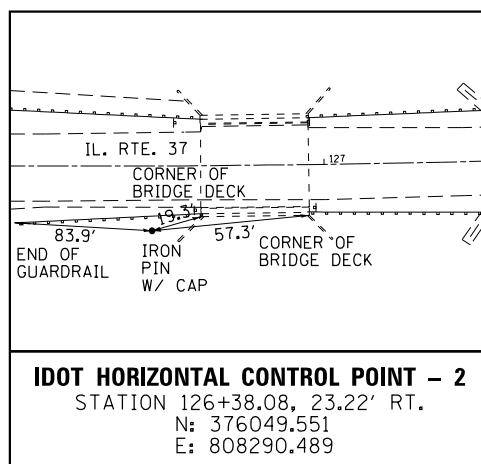
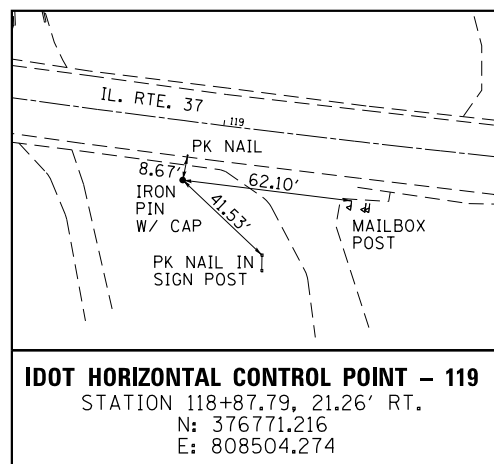
LOCATION STATION TO STATION			PAVEMENT MARKING REMOVAL	SHORT TERM PAVEMENT MARKING REMOVAL	SHORT-TERM PAVEMENT MARKING	TEMPORARY PAVEMENT MARKING - LINE 4"	TEMPORARY PAVEMENT MARKING REMOVAL	PAINT PAVEMENT MARKING - LINE 4"		RAISED REFLECTIVE PAVEMENT MARKER
			(SQ FT)	(SQ FT)	(FOOT)	(FOOT)	(SQ FT)	SOLID YELLOW	SOLID WHITE	(EACH)
								(FOOT)	(FOOT)	
122+00.00	-	130+50.00	*REFΔ	54	160	2,613	872	1,700	1,700	6
TOTALS			*REFΔ	54	160	2,613	872	1,700	1,700	6

EXIST. ϕ IL. RTE. 37
 CURVE-1 DATA
 PI STA. = 123+80.07
 Δ = 30° 53' 16" (LT)
 D = 0° 59' 52"
 R = 5,742.04'
 T = 1,586.36'
 L = 3,095.50'
 E = 215.10'
 P.C. STA. = 107+93.72
 P.T. STA. = 138+89.22



NOTES:

- HORIZONTAL CONTROL BASED ON THE ILLINOIS STATE PLANE EAST ZONE NAD 83 (ADJ).
- VERTICAL CONTROL BASED ON NAVD 88.



BENCHMARKS

BM "602"
 STA. 120+65.06+/-, 40.31' +/- RT.
 RAILROAD SPIKE IN POWER POLE ON WEST SIDE OF IL RTE. 37 ABOUT 600' NORTH OF EXIST. STRUCTURE 100-2002
 ELEV. = 426.15

BM "603"
 STA. 126+55.84+/-, 18.18' +/- RT.
 CHISLED "□" TOP OF NORTHWEST WINGWALL ON EXIST. STRUCTURE 100-2002
 ELEV. = 424.97

BM "604"
 STA. 132+32.93±, 44.81' ± RT.
 RAILROAD SPIKE IN POWER POLE ON WEST SIDE OF IL RTE. 37 ACROSS FROM MEMPHIS LANE
 ELEV. = 444.04

FILE NAME =	USER NAME = *USER*	DESIGNED - BJD	REVISED -
... \Sheets \D998855-sht-ABT-001.dgn		DRAWN - RAH	REVISED -
	PLOT SCALE = *SCALE*	CHECKED - JMM	REVISED -
	PLOT DATE = 2/15/2017	DATE - 02/01/2017	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

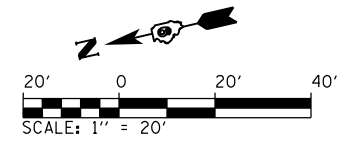
**ALIGNMENT, TIES AND BENCHMARKS
 F.A.S. ROUTE 2905 (IL. RTE. 37)**

SCALE: 1" = 100' SHEET NO. OF SHEETS STA. TO STA.

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2905	113B-1	WILLIAMSON	39	14
FED. ROAD DIST. NO. 7 ILLINOIS FED. AID PROJECT			CONTRACT NO. 98855	

Jon McAnelly
06-36-100-006

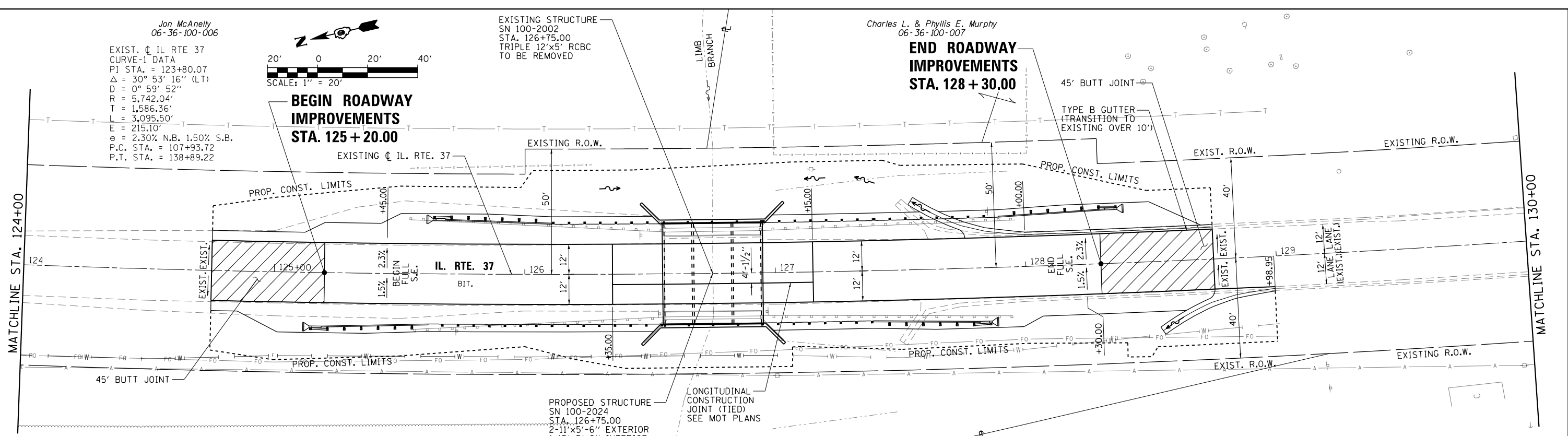
EXIST. C IL RTE 37
CURVE-1 DATA
PI STA. = 123+80.07
 $\Delta = 30^\circ 53' 16''$ (LT)
 $D = 0^\circ 59' 52''$
 $R = 5,742.04'$
 $T = 1,586.36'$
 $L = 3,095.50'$
 $E = 215.10'$
 $\theta = 2.30\%$ N.B. 1.50% S.B.
P.C. STA. = 107+93.72
P.T. STA. = 138+89.22



EXISTING STRUCTURE
SN 100-2002
STA. 126+75.00
TRIPLE 12'x5' RCBC
TO BE REMOVED

Charles L. & Phyllis E. Murphy
06-36-100-007

**END ROADWAY
IMPROVEMENTS
STA. 128 + 30.00**

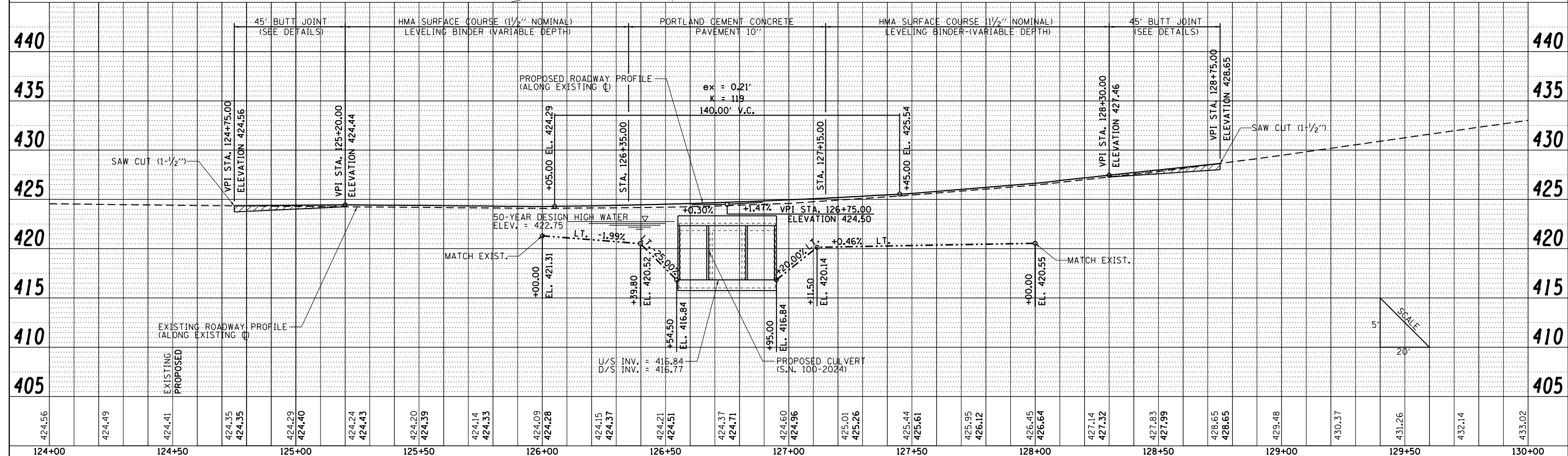


Donald & Sandra Rakow
06-36-100-002

NOTE: 1. ALL CONCRETE PAVEMENT JOINTS SHALL BE IN ACCORDANCE WITH IDOT HIGHWAY STANDARD 420001.

PLAN	SURVEYED	BY	DATE
	PLOTTED		
	ALIGNED		
	CHECKED		
	FILED		
	NO.		

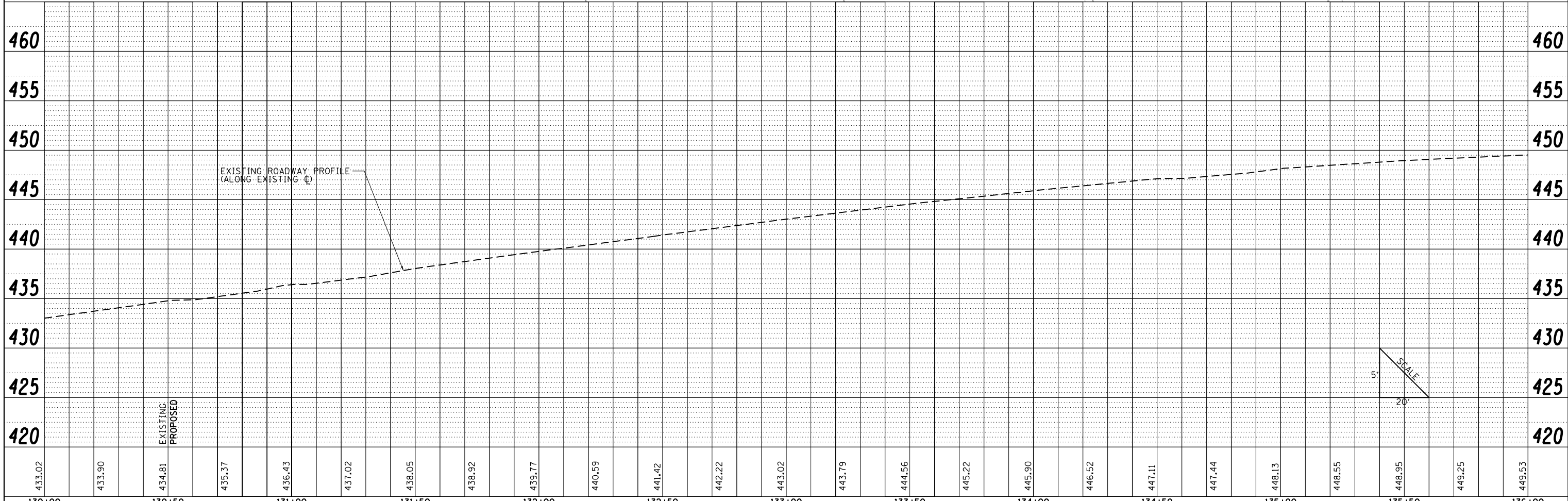
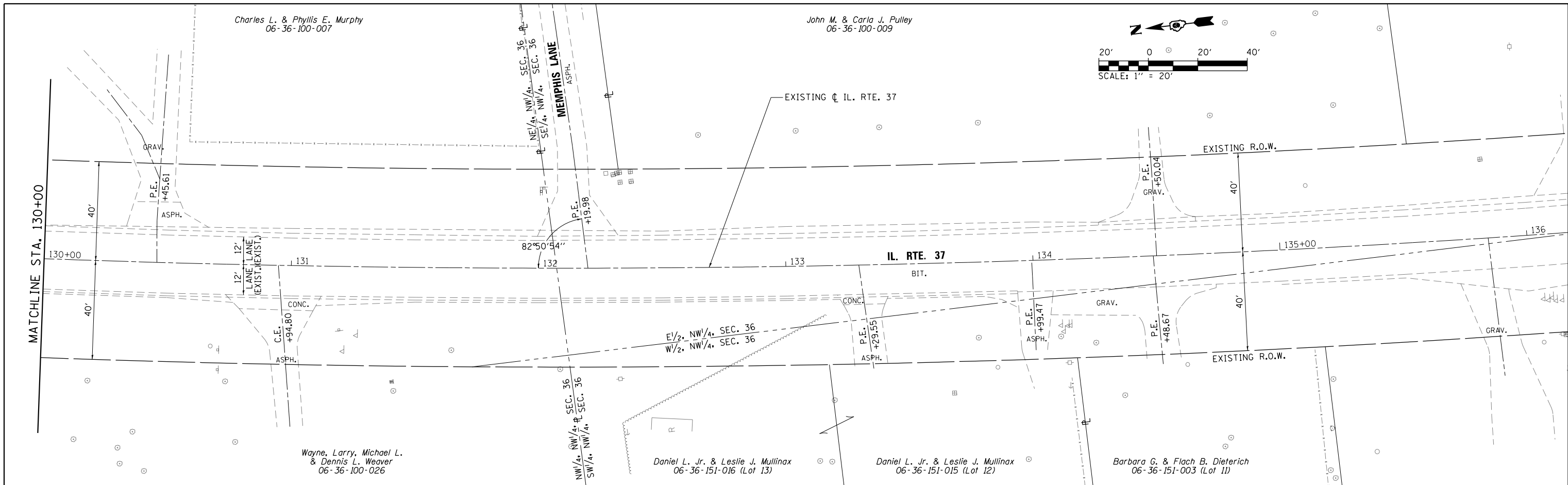
PROFILE	SURVEYED	BY	DATE
	PLOTTED		
	GRADES		
	CHECKED		
	STRUCTURE		
	NOTATIONS		
	CHFD		
	NO.		



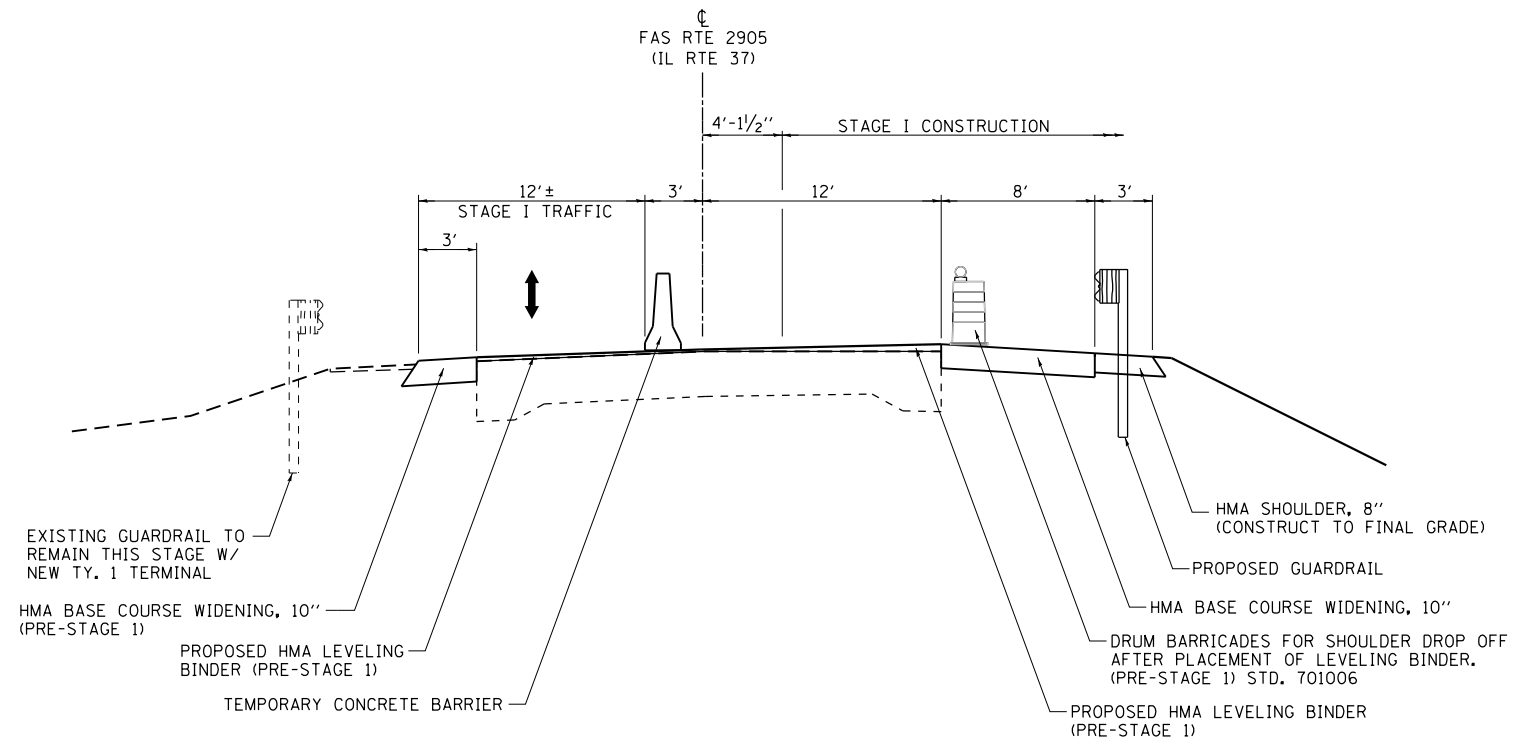
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	PLOT DATE = 2/15/2017	CHECKED - JMM	REVISED -			CONTRACT NO. 98855			FED. ROAD DIST. NO. 7 ILLINOIS FED. AID PROJECT	
		DATE - 02/01/2017	REVISED -			SCALE: 1" = 20'	SHEET NO.	OF SHEETS	STA. 124+00	TO STA. 130+00

PLAN	SURVEYED	BY	DATE
	PLOTTED		
	ALIGNED		
	CHECKED		
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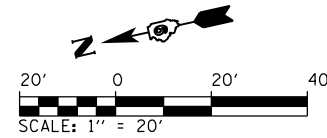
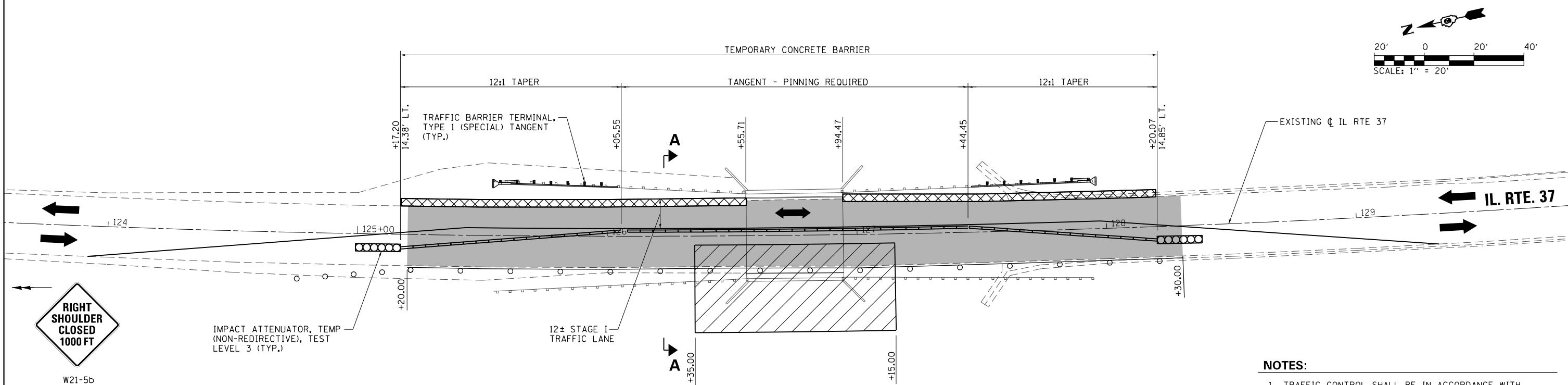
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	PLOTTED		
	GRADES		
	CHECKED		
	STRUCTURE		
	NOTATIONS		
	CHKD		
	NO.		



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		CHECKED - JMM	REVISED -			CONTRACT NO. 98855				
		DATE - 02/01/2017	REVISED -			FED. ROAD DIST. NO. 7 ILLINOIS FED. AID PROJECT				



SECTION A-A
N.T.S.



LEGEND

	PRE-STAGE 1 BASE COURSE WIDENING
	PRE-STAGE 1 LEVELING BINDER
	WORK ZONE

- NOTES:**
1. TRAFFIC CONTROL SHALL BE IN ACCORDANCE WITH STANDARD 701321.
 2. REMAINING SOUTH BOUND SHOULDER, GUARDRAIL AND TEMPORARY RAMP IMPROVEMENTS SHALL BE COMPLETED PRIOR TO STAGE II TRAFFIC CONFIGURATION.
 3. REMOVE SHOULDER CLOSURE AND ADVANCE SIGNAGE AFTER ESTABLISHING STAGE I LANE CLOSURE

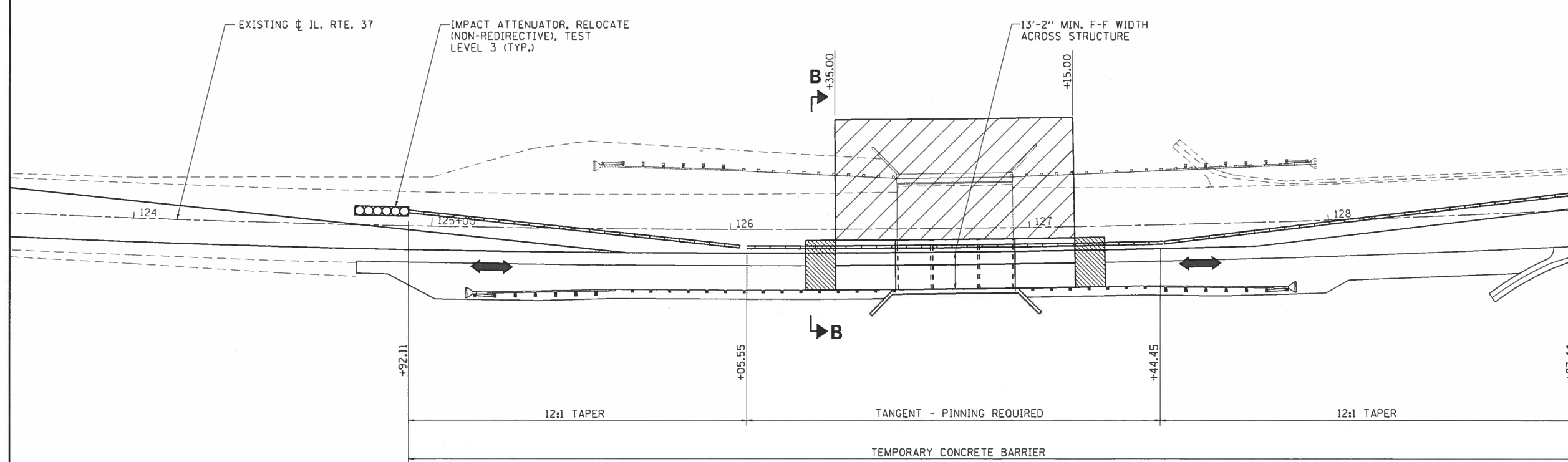
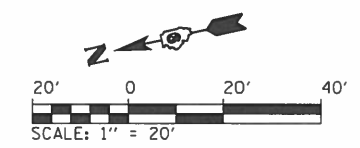
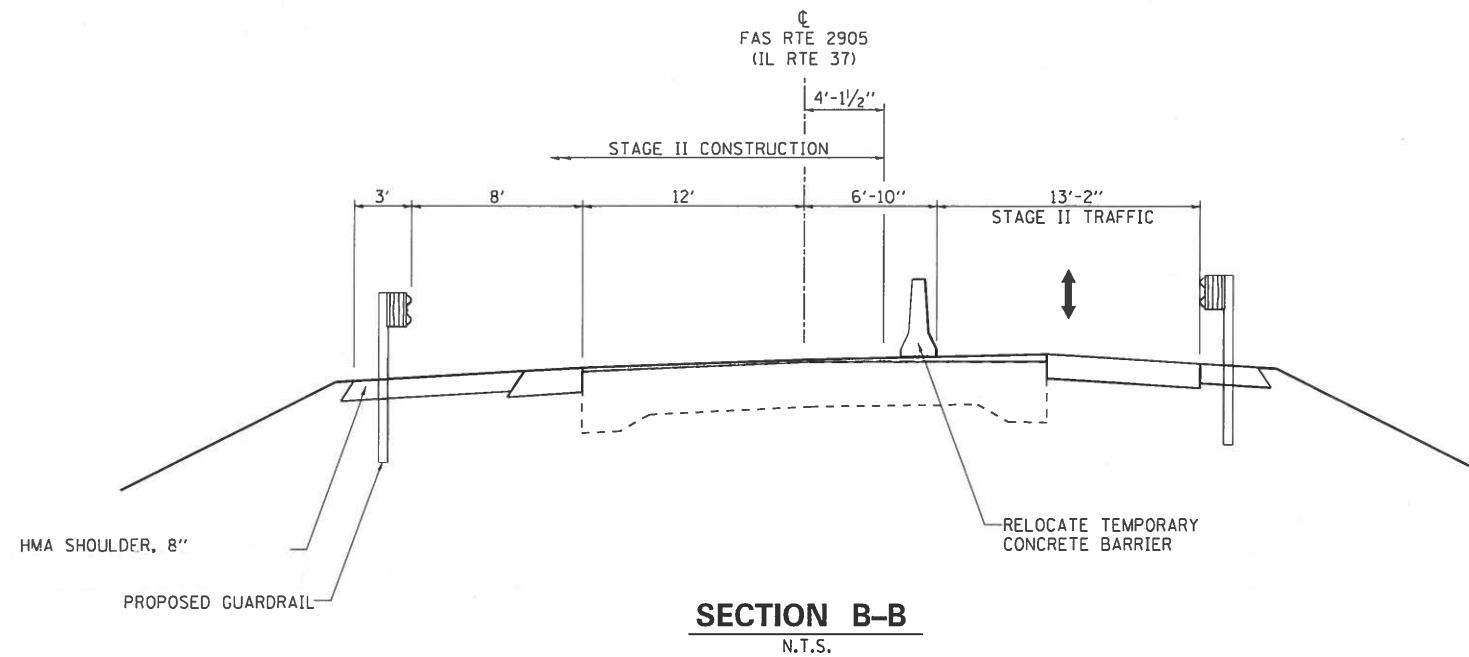
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	PLOT SCALE = *SCALE*	CHECKED - JMM	REVISED -
	PLOT DATE = 3/13/2017	DATE - 02/01/2017	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

STAGE I CONSTRUCTION
F.A.S. ROUTE 2905 (IL. RTE. 37)

SCALE: 1" = 20' SHEET NO. OF SHEETS STA. 124+00 TO STA. 129+00

F.A.S. RTE. 2905	SECTION 113B-1	COUNTY WILLIAMSON	TOTAL SHEETS 39	SHEET NO. 18
FED. ROAD DIST. NO. 7 ILLINOIS FED. AID PROJECT				CONTRACT NO. 98855



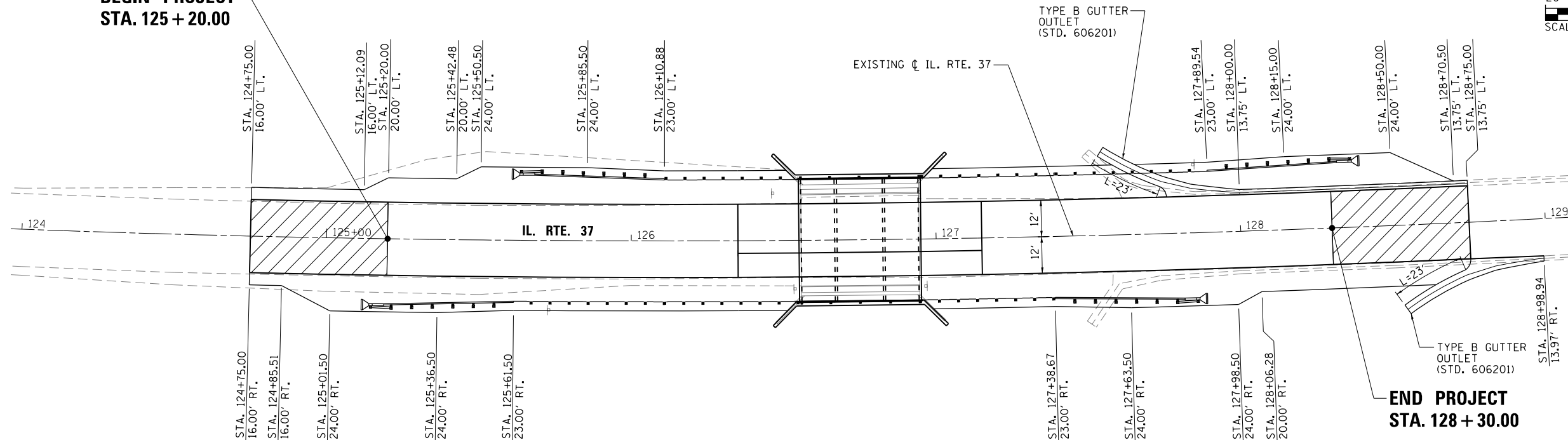
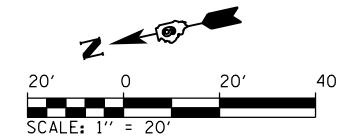
LEGEND

	TEMPORARY RAMP
	WORK ZONE

- NOTES:**
1. TRAFFIC CONTROL SHALL BE IN ACCORDANCE WITH STANDARD 701321.
 2. REMAINING NORTH BOUND SHOULDER, GUARDRAIL AND TEMPORARY RAMP IMPROVEMENTS SHALL BE COMPLETED PRIOR TO RESTORING TRAFFIC TO ORIGINAL CONFIGURATION.

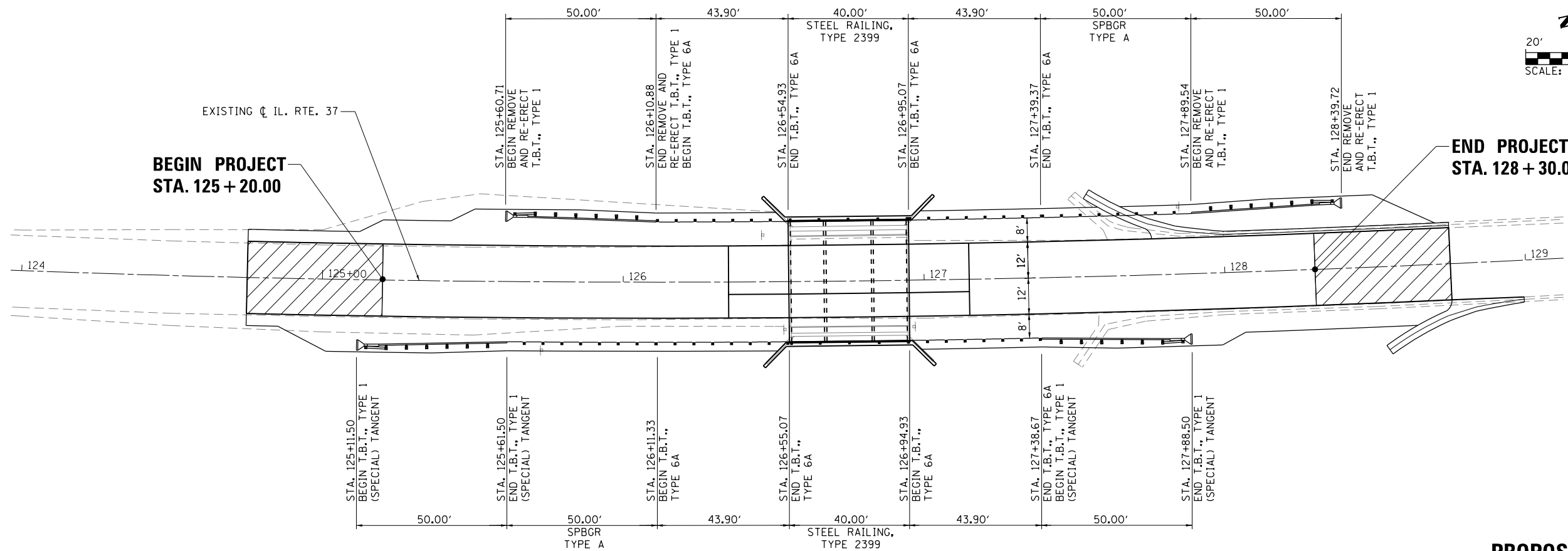
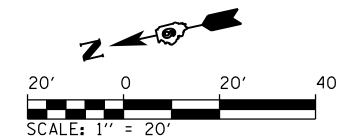
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	PLOT SCALE = \$SCALE\$	DRAWN - GLD	REVISED -		SCALE: 1" = 20'	SHEET NO. OF SHEETS	STA. 124+00 TO STA. 129+00	FED. ROAD DIST. NO. 7 ILLINOIS FED. AID PROJECT				
	PLOT DATE = 3/13/2017	CHECKED - JMM	REVISED -									
		DATE - 02/01/2017	REVISED -									
CONTRACT NO. 98855												

**BEGIN PROJECT
STA. 125 + 20.00**



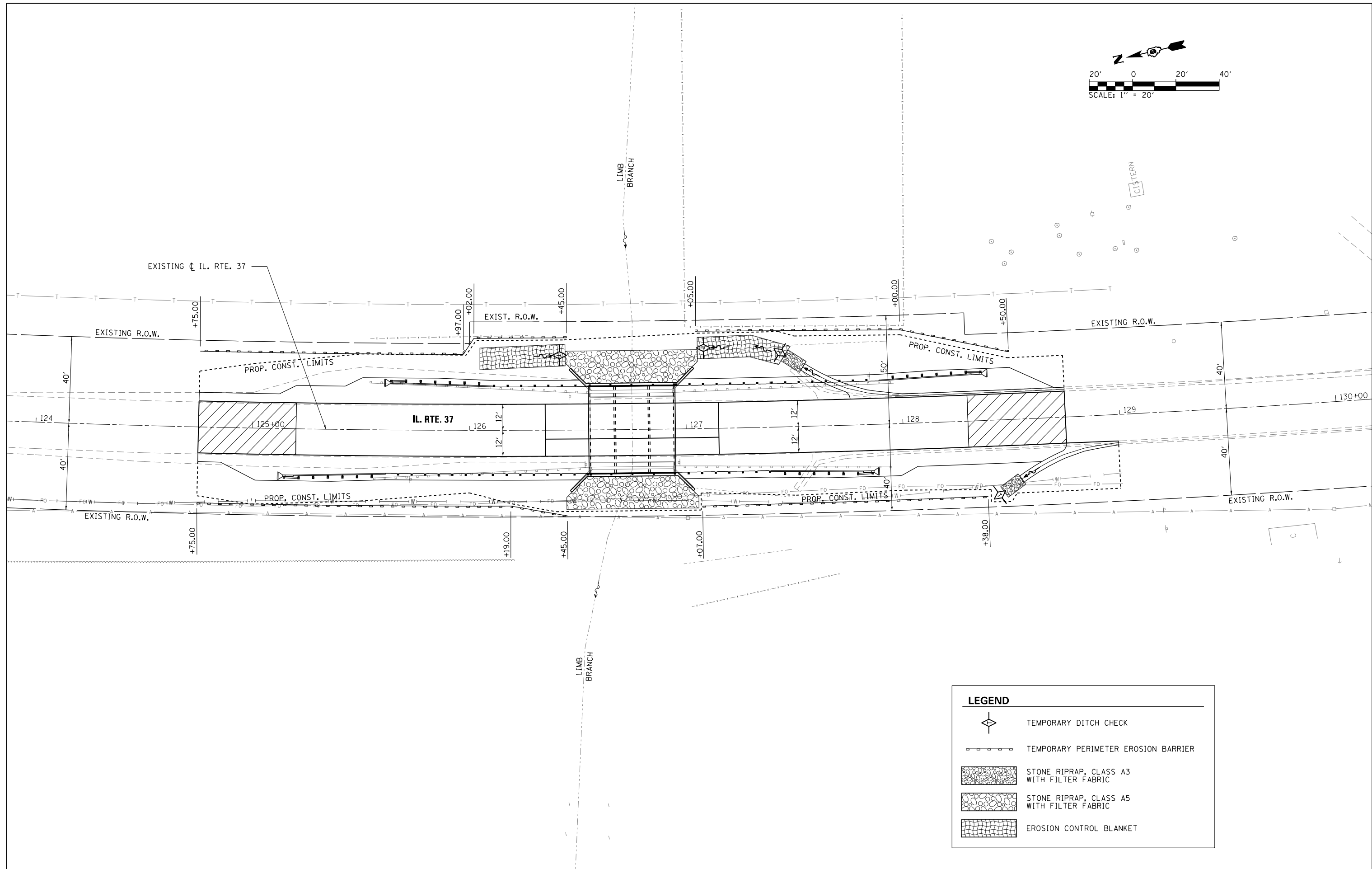
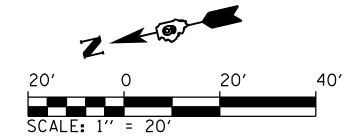
PROPOSED SHOULDER AND GUTTER LAYOUT

**BEGIN PROJECT
STA. 125 + 20.00**



PROPOSED GUARDRAIL LAYOUT

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PLOT DATE = 2/15/2017	DATE - 02/01/2017	REVISED -	REVISED -	SCALE: 1" = 20'		SHEET NO. OF SHEETS	STA. 124+00 TO STA. 129+00		FED. ROAD DIST. NO. 7 ILLINOIS FED. AID PROJECT		



LEGEND	
	TEMPORARY DITCH CHECK
	TEMPORARY PERIMETER EROSION BARRIER
	STONE RIPRAP, CLASS A3 WITH FILTER FABRIC
	STONE RIPRAP, CLASS A5 WITH FILTER FABRIC
	EROSION CONTROL BLANKET

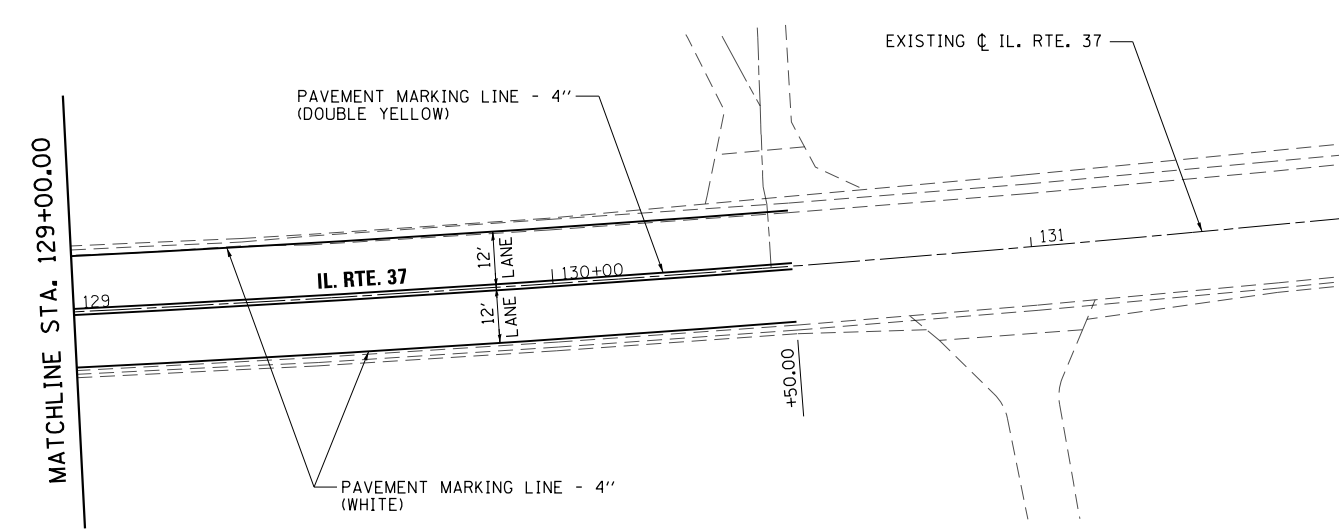
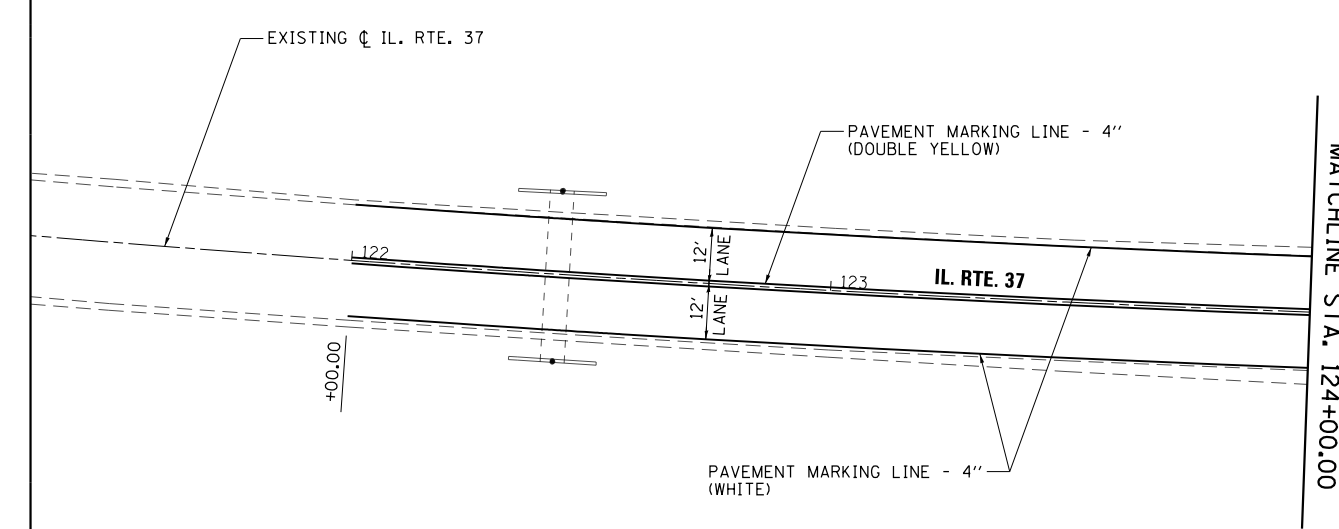
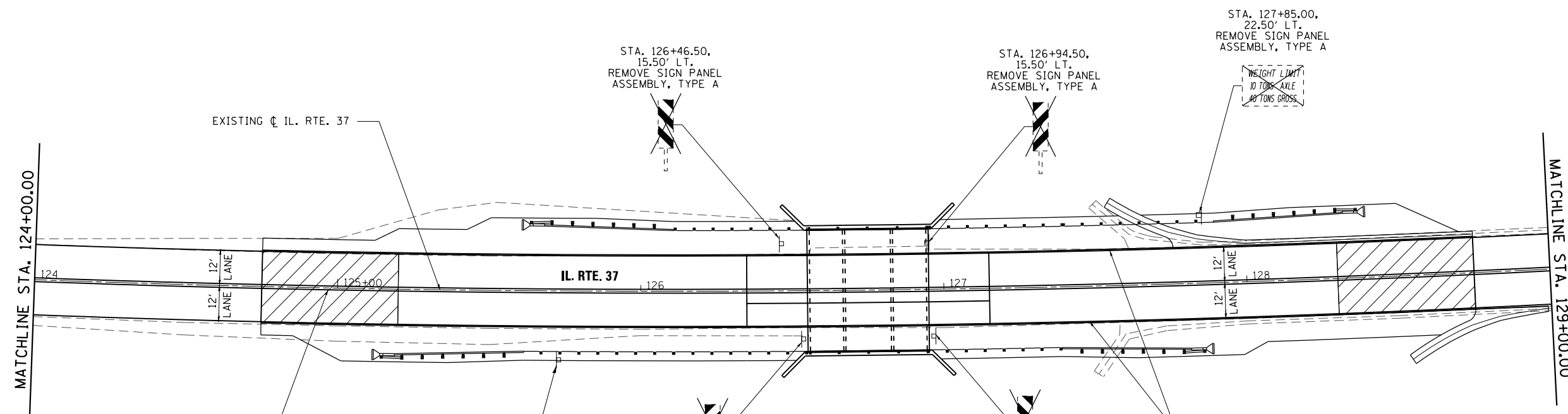
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

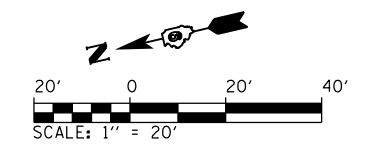
**EROSION CONTROL
F.A.S. ROUTE 2905 (IL. RTE. 37)**

SCALE: 1" = 20' SHEET NO. OF SHEETS STA. 123+50 TO STA. 129+50

F.A.S. RTE. 2905	SECTION 113B-1	COUNTY WILLIAMSON	TOTAL SHEETS 39	SHEET NO. 22
CONTRACT NO. 98855				
FED. ROAD DIST. NO. 7 ILLINOIS FED. AID PROJECT				

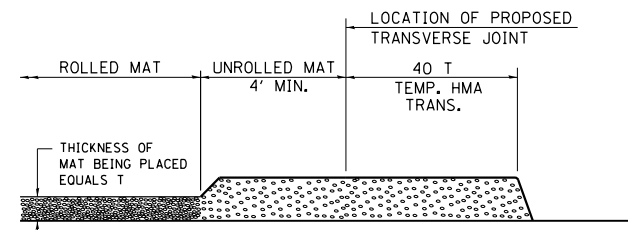


NOTE: 1. PAVEMENT MARKING TO BE PLACED IN ACCORDANCE WITH IDOT STANDARD 780001.
 2. CONTRACTOR TO COVER CONFLICTING SIGNAGE DURING STAGED CONSTRUCTION.



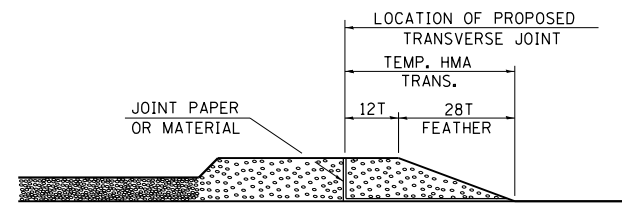
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	PLOT SCALE = *SCALE*	CHECKED - JMM	REVISED -					2905	113B-1	WILLIAMSON	39	23
PLOT DATE = 2/15/2017	DATE - 02/01/2017	REVISED -	REVISED -	SCALE: 1" = 20'			SHEET NO. OF SHEETS		STA. TO STA.	FED. ROAD DIST. NO. 7 ILLINOIS FED. AID PROJECT		
										CONTRACT NO. 98855		

TEMPORARY HOT-MIX ASPHALT TRANSITIONS



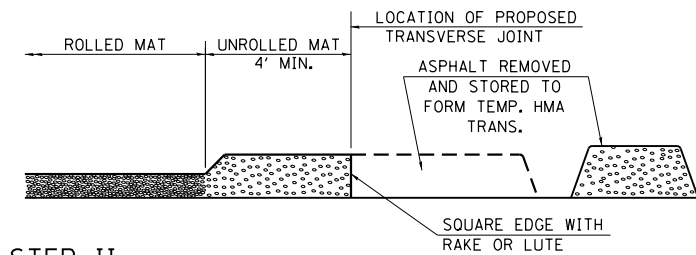
STEP I

1. PLACE HOT-MIX ASPHALT MAT, LENGTH 40 TIMES THE THICKNESS OF THE MAT BEING PLACED PAST THE PROPOSED TRANSVERSE JOINT LOCATION USING NORMAL OPERATING PROCEDURES.
2. EXTREME CARE SHOULD BE TAKEN TO MAINTAIN ENOUGH MATERIAL IN FRONT OF THE SCREED TO MAINTAIN REQUIRED PAVING DEPTH.



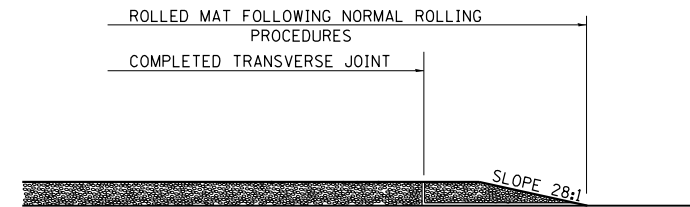
STEP III

1. JOINT PAPER OR OTHER PRESELECTED JOINT MATERIAL IS THEN PLACED IN THE CLEARED AREA AND THE EXCESS ASPHALT USED TO HAND FORM A TRANSITION TO THE DIMENSIONS SHOWN ABOVE.
2. NOTE THAT IN CONSTRUCTING THE TRANSITION, THE MAT DEPTH IS CONTINUED AS PART OF THE TRANSITION BEFORE FORMING THE FEATHER.



STEP II

1. MOVE THE PAVER OUT OF THE WAY AND REMOVE THE ASPHALT FROM THE AREA OF THE PROPOSED TEMPORARY HOT-MIX ASPHALT TRANSITION.
2. SQUARE UP THE END OF THE MAT WITH A RAKE OR LUTE.
3. NOTE THAT THE MAT WITHIN 4' OF THE END OF JOINT IS NOT TO BE ROLLED AT THIS TIME.



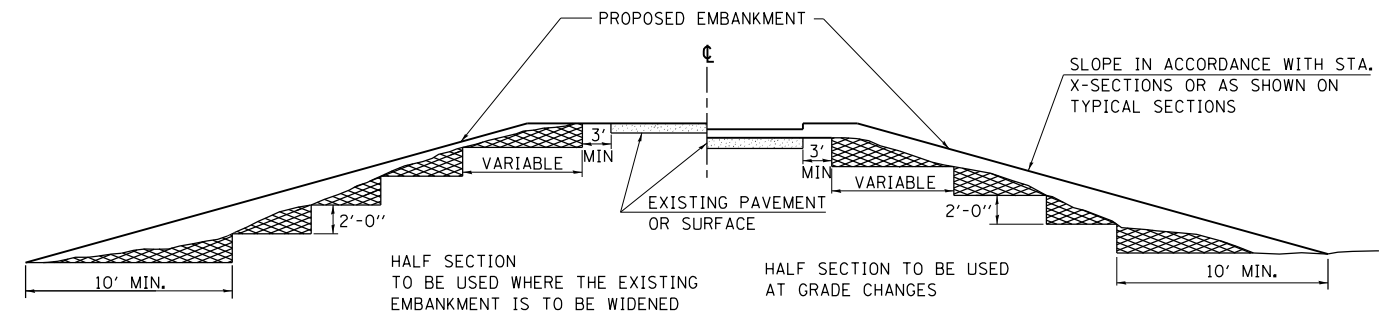
STEP IV

1. COMPLETE TEMPORARY TRANSITION BY ROLLING.
2. TO RESUME PAVING, AT THE JOINT, REMOVE TEMPORARY TRANSITION AND DISPOSE OF THE MATERIAL ACCORDING TO ART. 202.03 OF THE STD. SPECS. (COST INCLUDED IN THE CONTRACT).
3. CONSTRUCTING THE TEMPORARY TRANSITIONS WILL NOT BE PAID FOR SEPARATELY IN ACCORDANCE WITH ARTICLE 406.14 OF THE STANDARD SPECIFICATIONS.

STD. 9-26

REVISIONS	
REDRAWN	2-15-89
REVISED	8-16-94
REVISED	01-09-07
RESIZED	05-8-08
REVISED	05-16-13

TYPICAL CROSS SECTION SHOWING STEP CONSTRUCTION ON EXISTING FILL

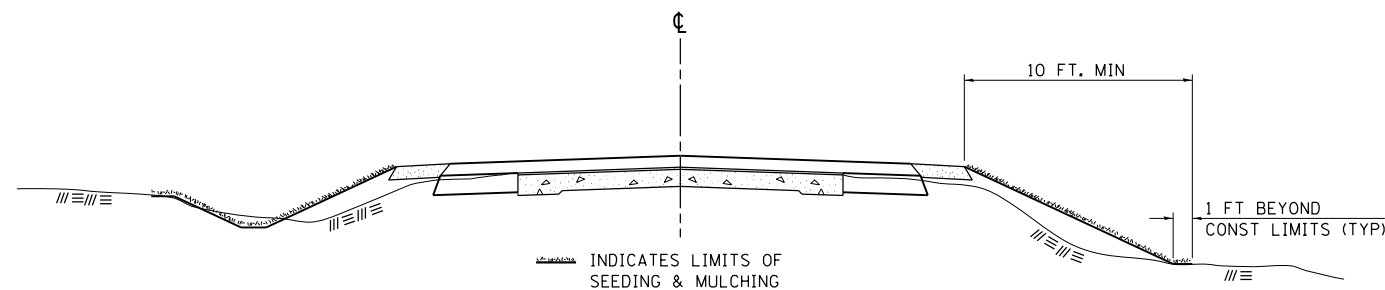


MATERIAL TO BE REMOVED AND REPLACED IN THE EMBANKMENT IN ACCORDANCE WITH ART. 205.04 OF THE STANDARD SPECIFICATION. COST TO BE INCLUDED IN THE VARIOUS ITEMS OF EXCAVATION AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED BECAUSE OF THIS WORK.

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

STD. 9-16

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 SPECIAL PROVISIONS FOR ROAD AND BRIDGE CONSTRUCTION.

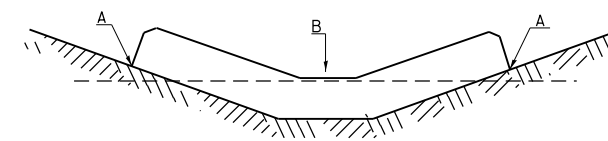
SECTIONS 250 AND 251 OF THE STANDARD SPECIFICATIONS SHALL GOVERN THIS WORK EXCEPT AS SPECIFIED HEREIN OR AS NOTED IN THE SPECIAL PROVISIONS.

STD. 9-12

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

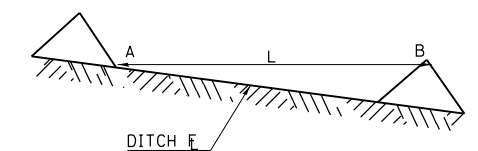
TEMPORARY DITCH CHECKS

PLACEMENT OF TEMPORARY DITCH CHECK IN DRAINAGE WAY



POINTS A SHOULD BE HIGHER THAN POINT B

SPACING BETWEEN TEMPORARY DITCH CHECKS



L = THE DISTANCE SUCH THAT POINTS A AND B ARE OF EQUAL ELEVATION
B = THE LOW POINT IN CENTER OF CHECK

STD. 9-108

REVISIONS	
DRAWN	9-01-99
REVISED	10-3-01
RESIZED	5-8-08
REVISED	05-04-10
REVIEWED	5-17-13

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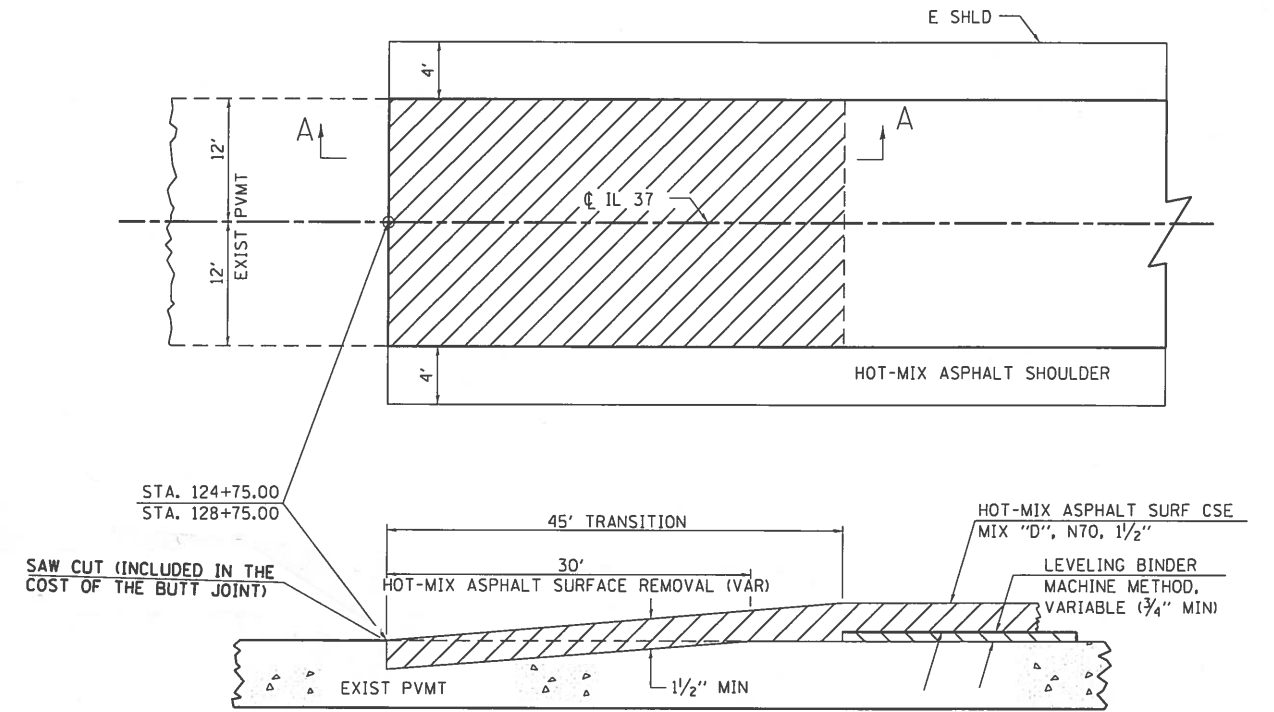
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**DISTRICT DETAILS
F.A.S. ROUTE 2905 (IL. RTE. 37)**

SCALE: N/A SHEET NO. OF SHEETS STA. TO STA.

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2905	113B-1	WILLIAMSON	39	24
FED. ROAD DIST. NO. 7 ILLINOIS FED. AID PROJECT			CONTRACT NO. 98855	

BUTT JOINT



SECTION A-A

REVISIONS	
DRAWN	10-17-90
REVISED	01-11-07
REVISED	3-25-08
REVISED	5-17-13

STD. 9-86

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		DRAWN - IDOT	REVISED -
	PLOT SCALE = \$SCALE\$	CHECKED -	REVISED -
	PLOT DATE = 2/15/2017	DATE - 02/01/2017	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

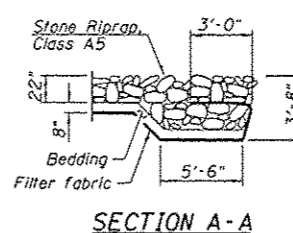
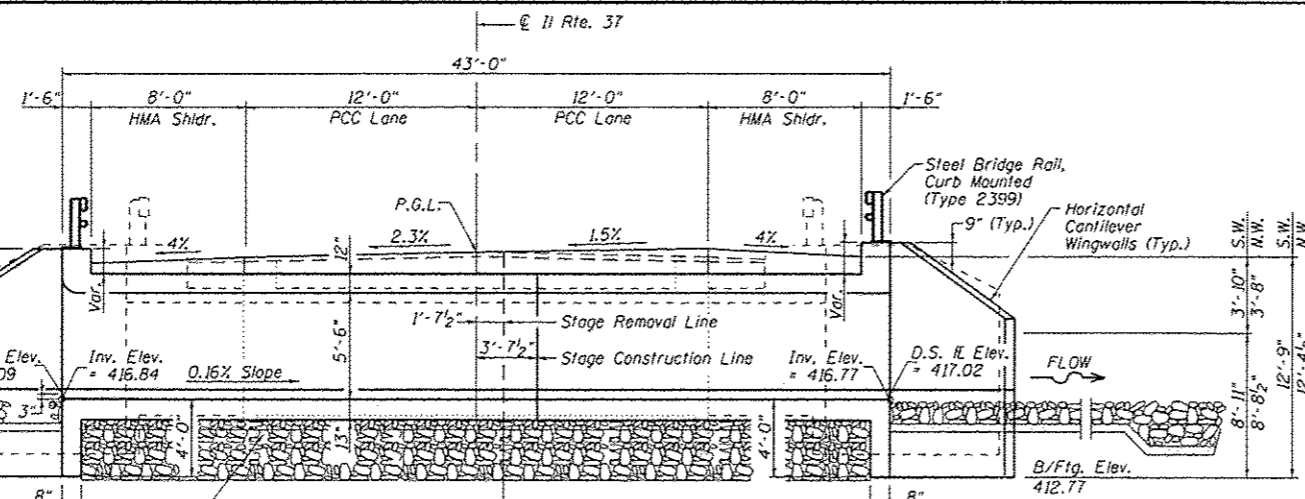
DISTRICT DETAILS
F.A.S. ROUTE 2905 (IL. RTE. 37)

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2905	1138-1	WILLIAMSON	39	25
FED. ROAD DIST. NO. 7 ILLINOIS FED. AID PROJECT				

SCALE: N/A SHEET NO. OF SHEETS STA. TO STA.

CONTRACT NO. 98855

Bench Mark: Chiseled "□" top of MW headwall of Str. #100-2002. Elev. 424.97
 Existing Structure: S.N. 100-2002 built in 1931 and widened in 1954 is a triple 12'x5' box culvert, no skew, 36'-4" out to out.
 Proposed Structure: Existing structure to be removed and replaced with a triple barrel (2-11'x5'-6" exterior and 1-15'x5'-6" interior) cast-in-place concrete box culvert. Traffic to be maintained utilizing stage construction with one lane of traffic open at all times.
 No salvage



STATION 126+75.00
 BUILT 2011 BY
 STATE OF ILLINOIS
 F.A.S. RT 2905 SEC. 113B-1
 LOADING HS-20
 STR. NO. 100-2024

NAME PLATE
 See Sid. 515001
 (Locate Name Plate on South end of East hdl.)

EXIST. @ IL RTE 37
 CURVE-1 DATA
 PT STA. = 123+80.07
 Δ = 30° 53' 16" (LT)
 D = 0° 59' 52"
 R = 5,742.04'
 T = 1,586.36'
 L = 3,095.50'
 E = 215.10'
 θ = 2.30% N.B., 1.50% S.B.
 T.R. = N/A
 S.E. RUN = N/A
 P.C. STA. = 107+93.72
 P.T. STA. = 138+89.22

INDEX OF SHEETS

SHEET NO.	TITLE
1.	General Plan
2.	Stage Construction Details
3.	Temporary Concrete Barrier for Stage Construction
4.	Box Culvert Details - 1
5.	Box Culvert Details - 2
6.	Steel Railing, Type 2399
7.	Bar Splicer Assembly and Mechanical Splicer Details
8.	Boring Logs 1
9.	Boring Logs 2

LOADING HS 20-44
 Allow 50#/sq. ft. for future wearing surface
 Allow for future 2 ft. grade raise

DESIGN SPECIFICATIONS
 AASHTO Standard Specifications for Highway Bridges 2002

DESIGN STRESSES
FIELD UNITS
 f'c = 3,500 psi
 fy = 60,000 psi (Reinforcement)

BORING DATA

Boring No.	Station	Offset
1-S	127+13	13' Rt.
2-S	126+54	14' Lt.

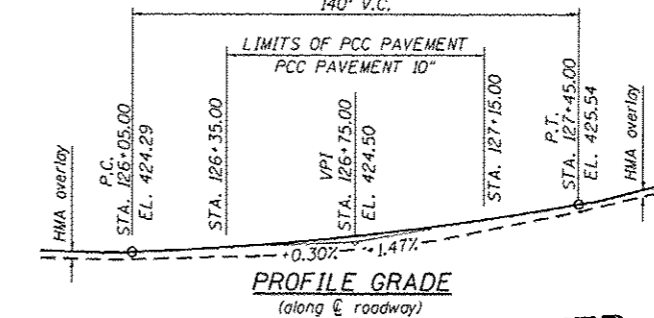
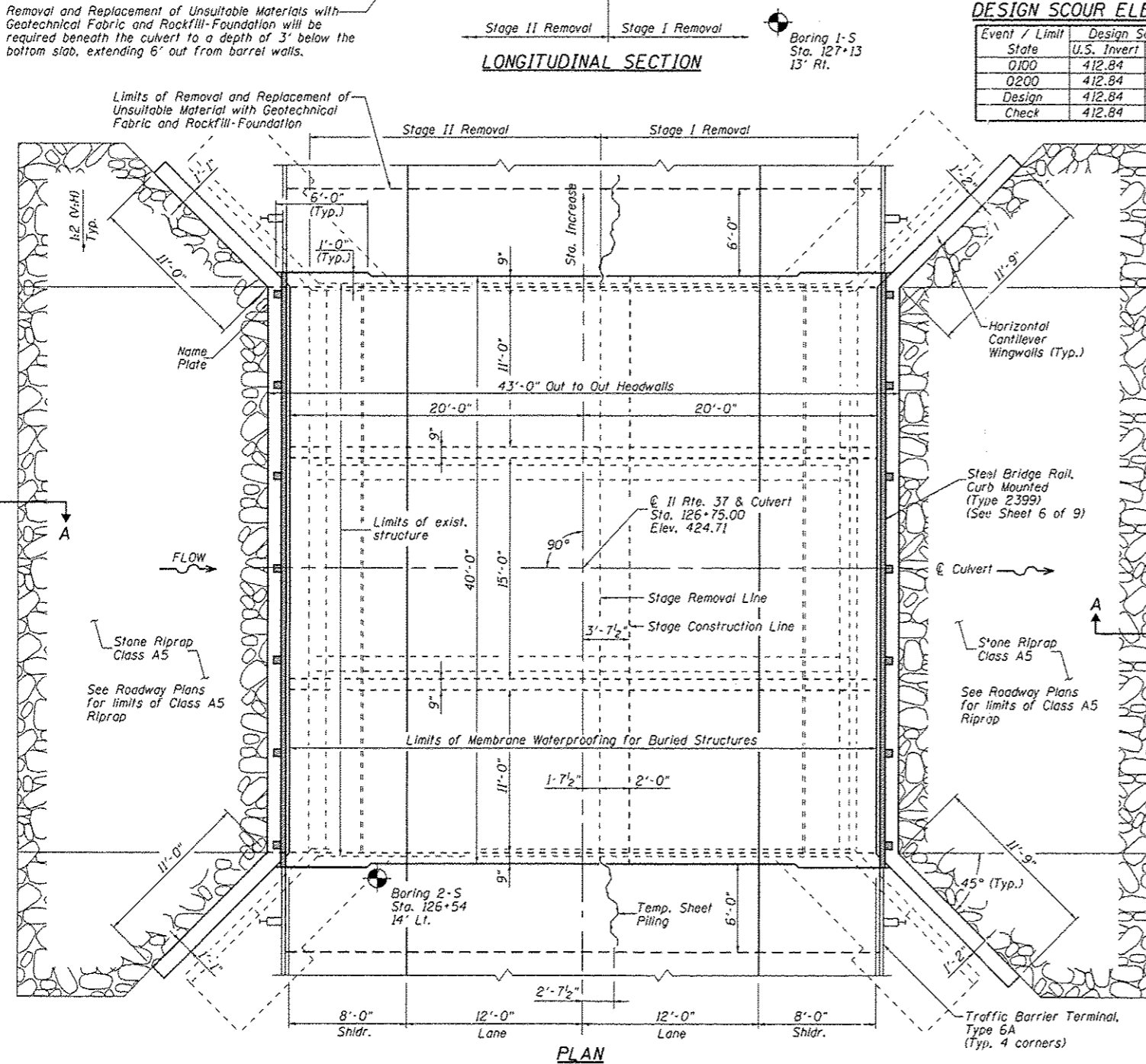
DESIGN SCOUR ELEVATION TABLE

Event / Limit State	Design Scour Elevations (ft.)		Item I13
	U.S. Invert	D.S. Invert	
0100	412.84	412.77	8
0200	412.84	412.77	
Design	412.84	412.77	
Check	412.84	412.77	

WATERWAY INFORMATION

Drainage Area = 2.76 Sq. Mi.

Freq. Yr.	S.N.	Q (cfs)		Opening (ft. ²)		Nat. H.W.E.	Head (ft.)		Headwater EL.		
		Exist.	Prop.	Exist.	Prop.		Exist.	Prop.	Exist.	Prop.	
10	100-2002	788	803	180.00	197.95	422.19	1.44	0.54	423.63	422.73	
	100-7109	79	64	18.25	18.25						
	Total	867	867	198.25	216.20						
Design 50	100-2002	1274	1278	180.00	203.50	422.75	1.40	1.23	424.15	423.98	
	100-7109	126	122	20.00	20.00						
	Total	1400	1400	200.00	223.50						
Base 100	100-2002	1516	1505	180.00	203.50	422.97	1.73	1.54	424.70	424.51	
	100-7109	134	145	20.00	20.00						
	Total	1650	1650	200.00	223.50						
Overlapping											
Existing 15	100-2002	909	926	180.00	202.39	422.31	1.80	0.68	424.11	422.99	
	100-7109	91	74	20.00	18.85						
	Total	1000	1000	200.00	221.24						
Proposed 67	100-2002	1419	1482	180.00	203.50	422.94	1.63	1.40	424.57	424.34	
	100-7109	136	116	20.00	20.00						
	Total	1555	1598	200.00	223.50						

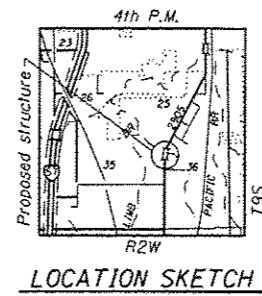


01-25-2017
APPROVED
 For Structural Adequacy Only
 William L. Bailey Jr., P.E. S.E.
 Illinois Licensed Structural Engineer
 License Number 081-005087
 Expiration Date: November 30, 2018

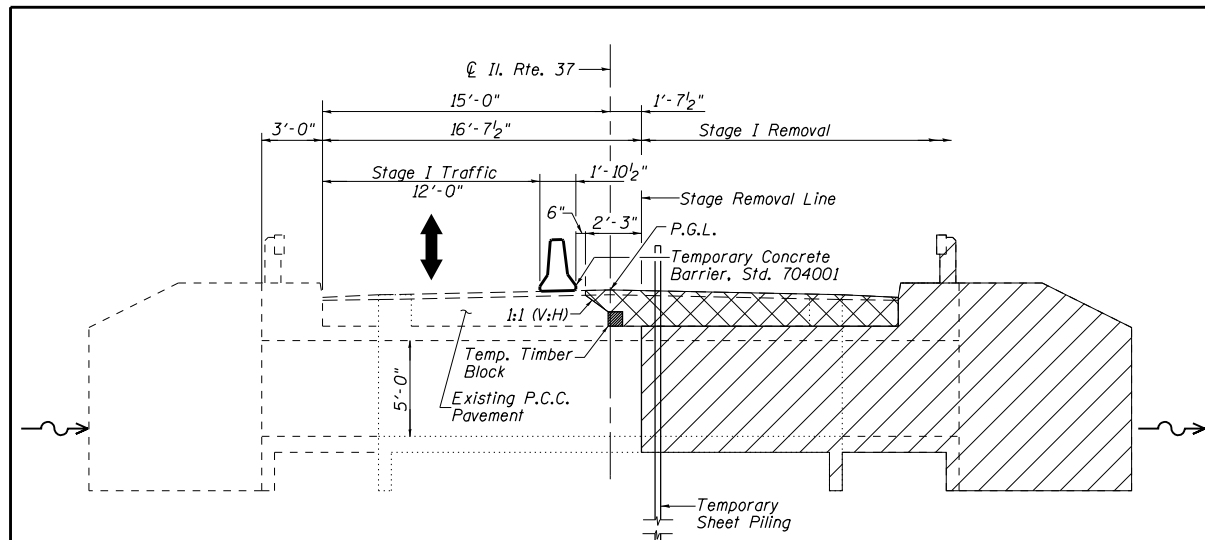
TOTAL BILL OF MATERIAL

ITEM	UNIT	QUANTITY
Removal and Disposal of Unsuitable Material	Cu. Yd.	241
Porous Granular Embankment	Cu. Yd.	300
Geotechnical Fabric for Ground Stabilization	Sq. Yd.	320
Rockfill- Foundation	Ton	503.1
Removal of Existing Structures	Each	1
Structure Excavation	Cu. Yd.	255
Reinforcement Bars, Epoxy Coated	Pound	33,100
Bar Splicers	Each	205
Steel Railing, Type 2399	Foot	80
Temporary Sheet Piling	Sq. Ft.	799
Name Plates	Each	1
Concrete Box Culverts	Cu. Yd.	194.4
Membrane Waterproofing for Buried Structures	Sq. Yd.	196

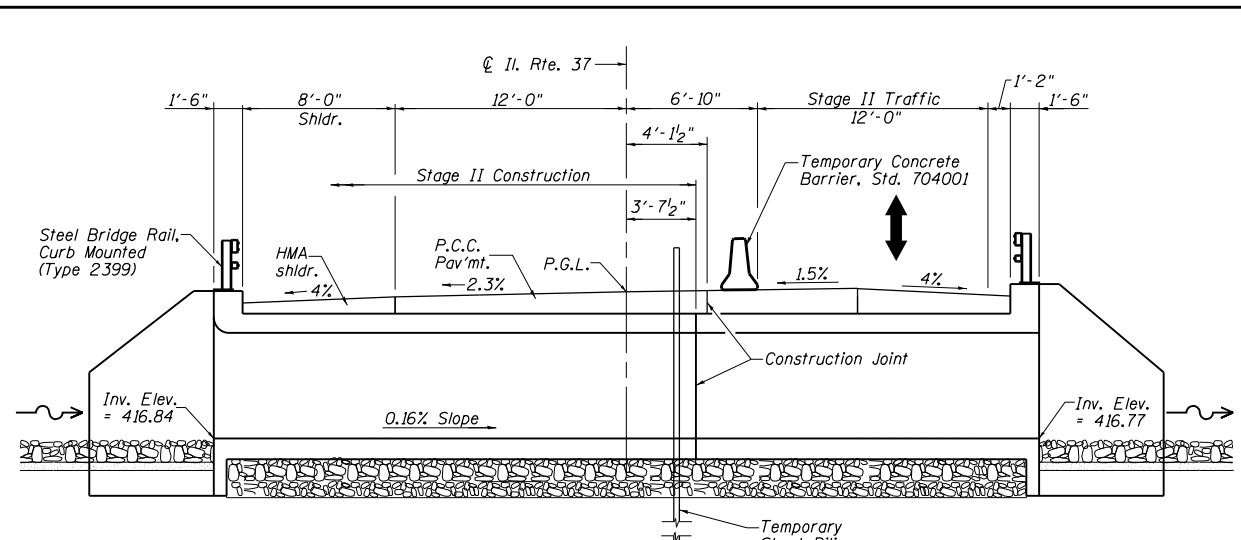
- GENERAL NOTES:**
1. Reinforcement Bars designated (E) shall be epoxy coated.
 2. Layout of slope protection system may be varied to suit ground conditions in the field as directed by the Engineer.
 3. Precast alternate is not allowed.
 4. A distance of half the length of the wingwall but not less than six feet of the barrel shall be poured monolithically with the wingwalls.



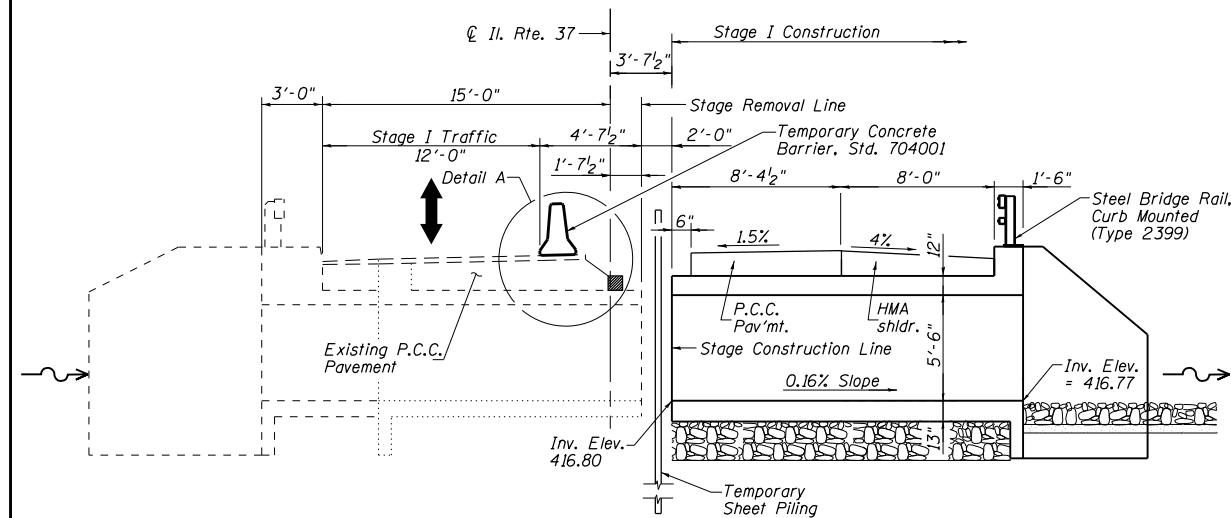
GENERAL PLAN
 IL RTE. 37 OVER TRIBUTARY
 TO LIMB BRANCH
 STATION 126+75.00
 STRUCTURE NO. 100-2024



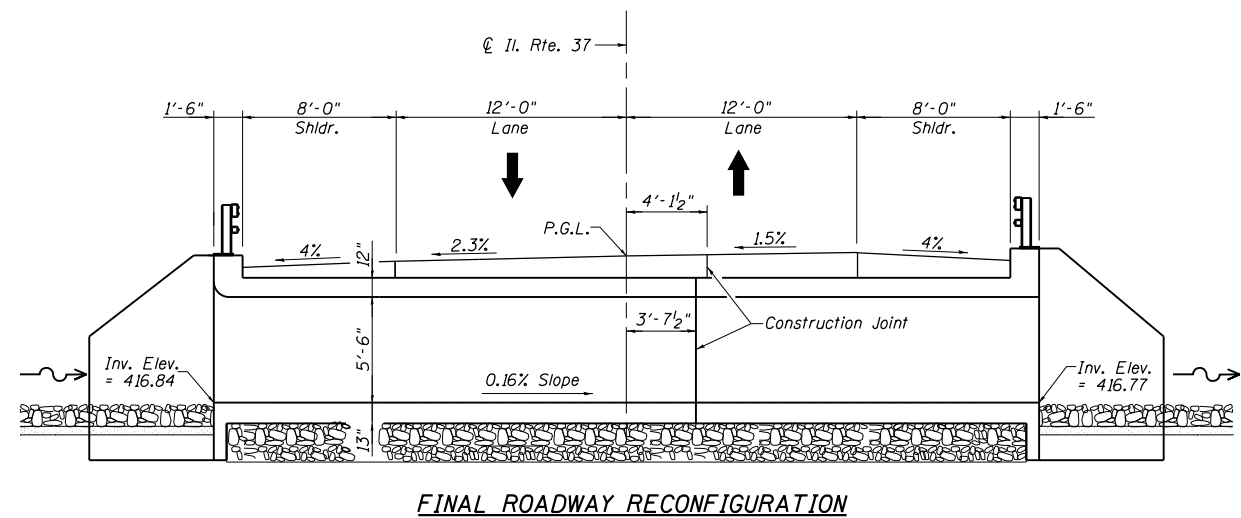
STAGE I REMOVAL
(Looking Southbound)



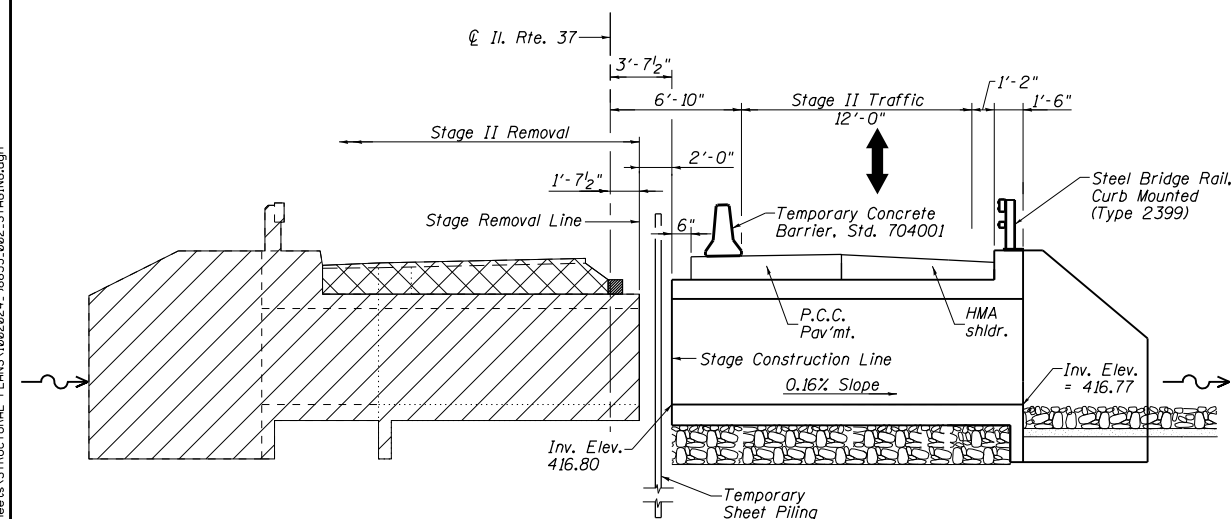
STAGE II CONSTRUCTION
(Looking Southbound)



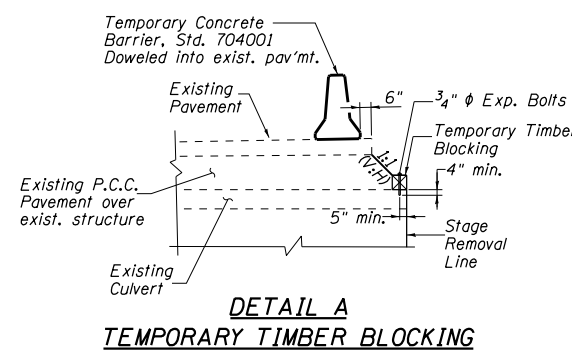
STAGE I CONSTRUCTION
(Looking Southbound)



FINAL ROADWAY RECONFIGURATION
(Looking Southbound)



STAGE II REMOVAL
(Looking Southbound)



DETAIL A
TEMPORARY TIMBER BLOCKING

LEGEND

- Pavement Removal
- Structure Removal

NOTES:

1. For details of Temporary Concrete Barrier, see Sheet 3 of 9
2. Hatched areas indicate areas of existing concrete removal to be paid for as "Removal of Existing Structures".
3. For quantity of Temporary Concrete Barrier, see Roadway Plans.
4. See Sheet 5 of 9 for Temporary Sheet Piling Detail.

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USER NAME =	DESIGNED	CJW	1/25/2017	REVISED
	CHECKED	WLB	1/25/2017	REVISED
PLOT SCALE =	DRAWN	GLD	1/25/2017	REVISED
PLOT DATE =	CHECKED	WLB	1/25/2017	REVISED

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

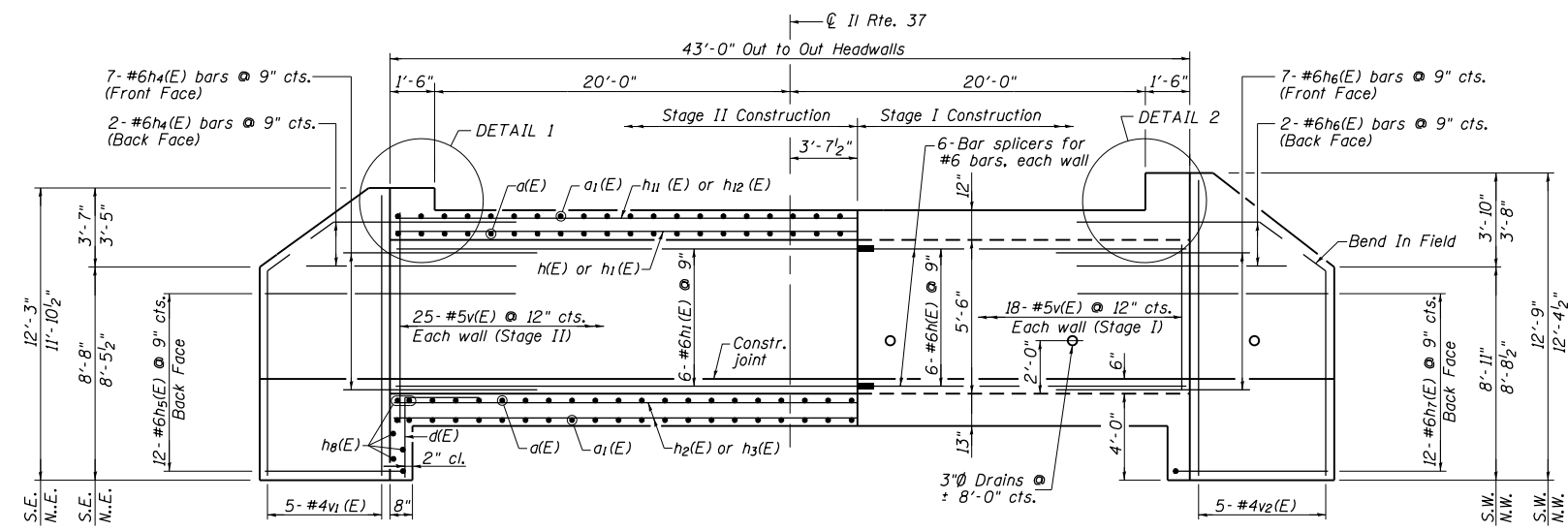
STAGE CONSTRUCTION DETAILS
STRUCTURE NO. 100-2024

SHEET NO. 2 OF 8 SHEETS

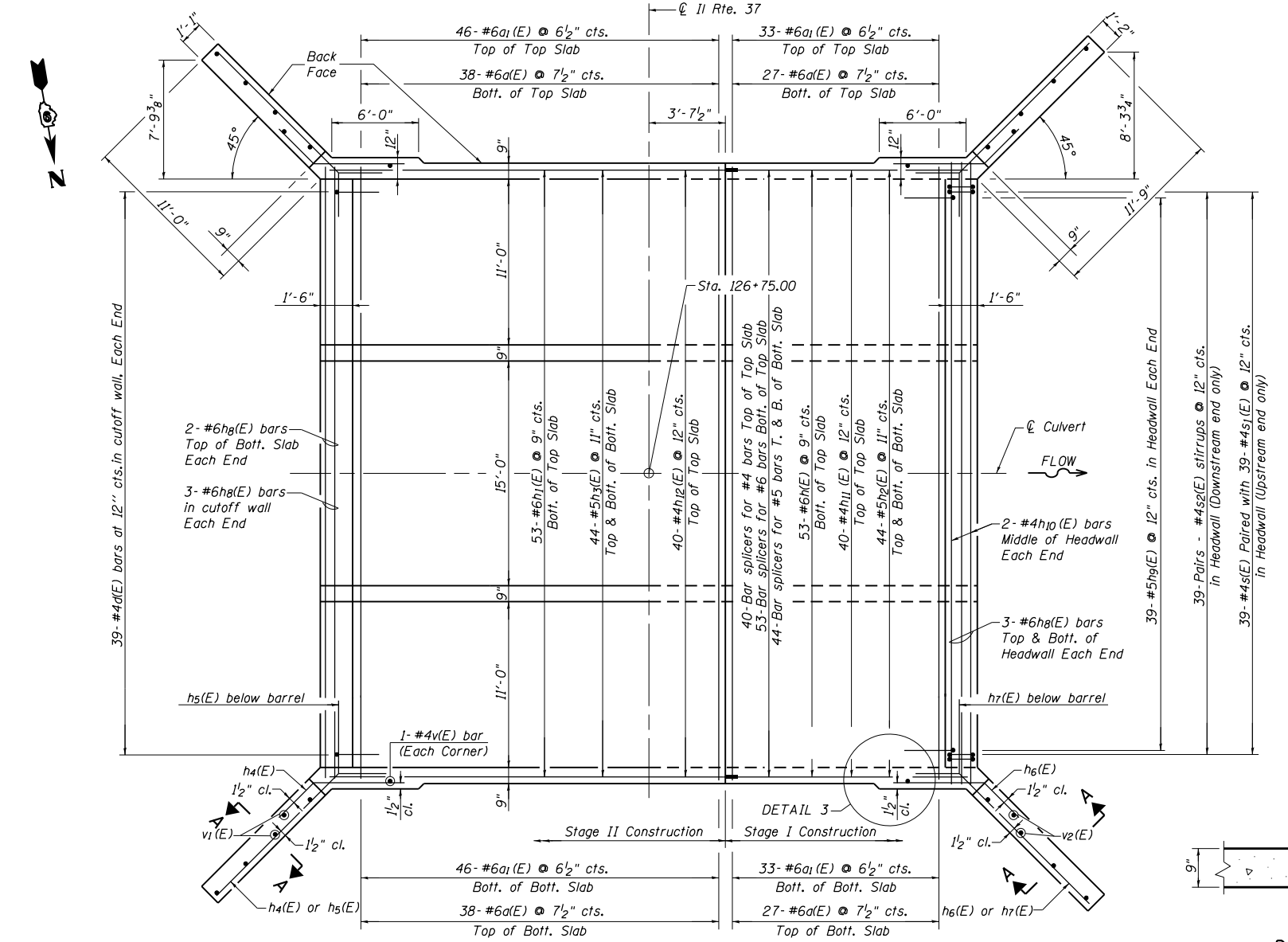
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2905	113B-1	WILLIAMSON	39	27
CONTRACT NO. 98855				

ILLINOIS FED. AID PROJECT

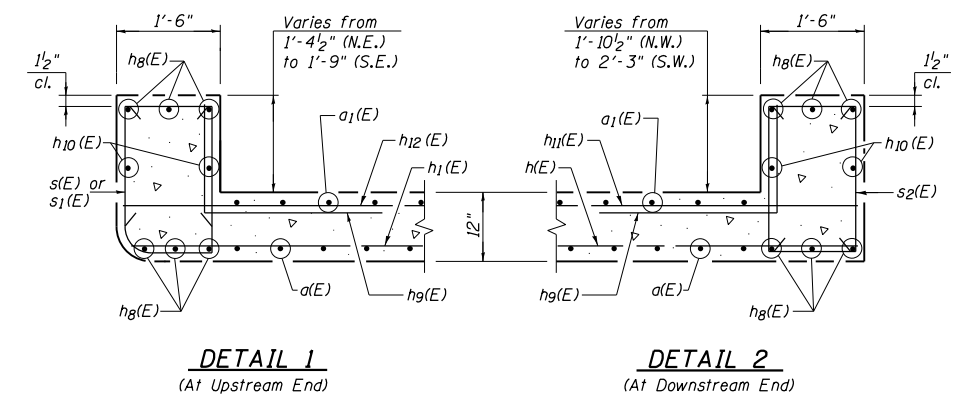
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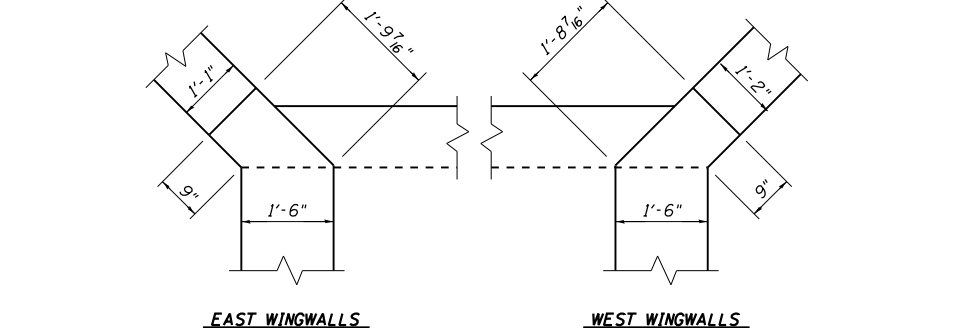
EAST WINGWALLS **HALF LONG. SECTION** **HALF ELEVATION** **WEST WINGWALLS**



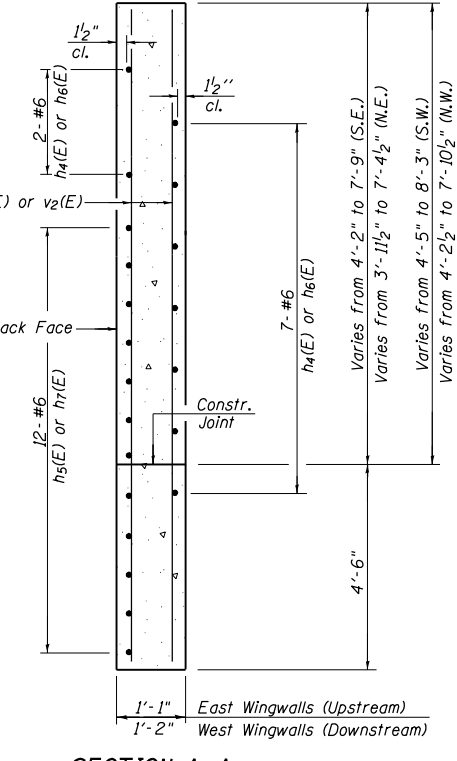
SHOWING REINFORCEMENT **SHOWING OUTLINES** **PLAN**



DETAIL 1 (At Upstream End) **DETAIL 2** (At Downstream End)



EAST WINGWALLS **WEST WINGWALLS** **CORNER DETAIL**

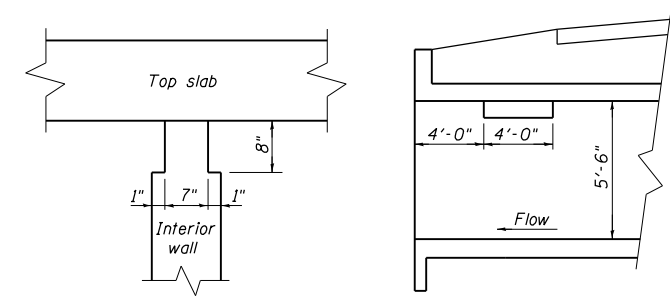
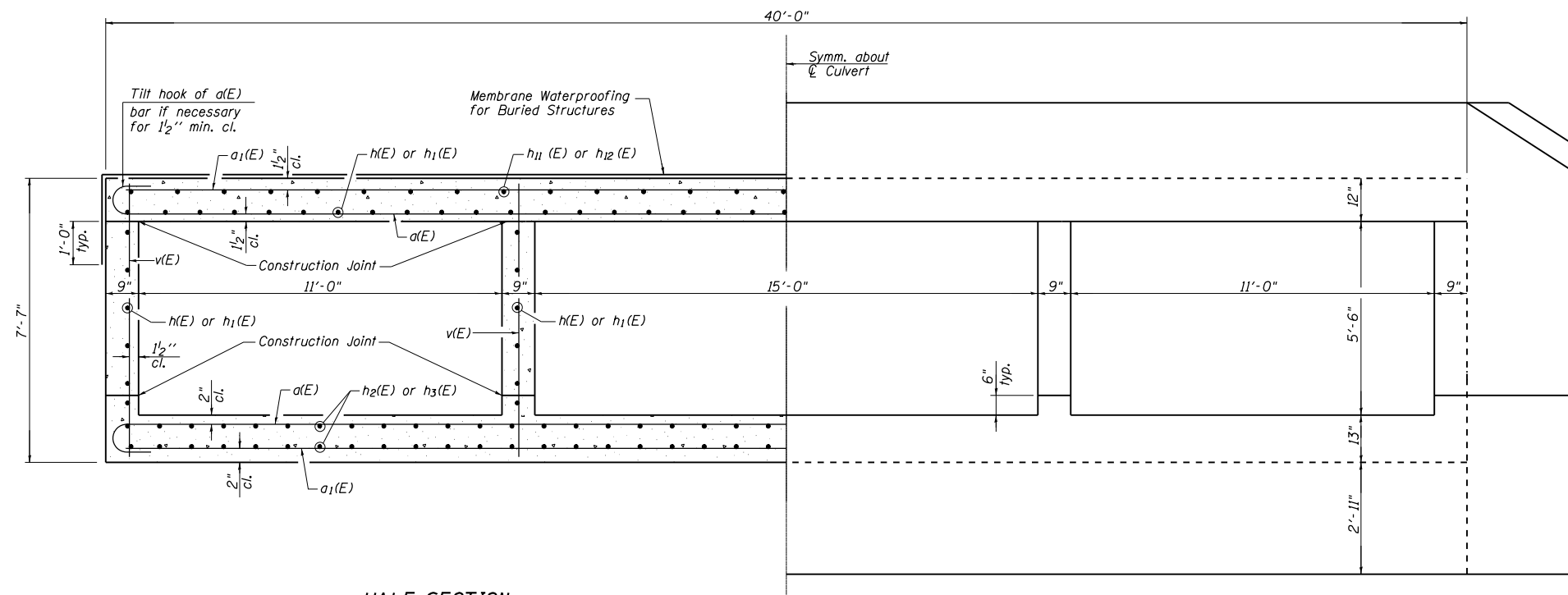


SECTION A-A

NOTES:
 1. A distance of half the length of the wingwall but not less than six feet of the barrel shall be poured monolithically with the wingwalls.
 2. See Sheet 5 of 9 for Section thru barrel, and Culvert Bill of Material.

	USER NAME =	DESIGNED CJW 1/25/2017	REVISED	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	BOX CULVERT DETAILS - 1 STRUCTURE NO. 100-2024	F.A.P. R.T.E.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	CHECKED WLB 1/25/2017	REVISED	2905			113B-1	WILLIAMSON	39	28	
	PLOT SCALE =	DRAWN GLD 1/25/2017	REVISED			CONTRACT NO. 98855				
	PLOT DATE	CHECKED WLB 1/25/2017	REVISED			ILLINOIS FED. AID PROJECT				

SHEET NO. 3 OF 8 SHEETS

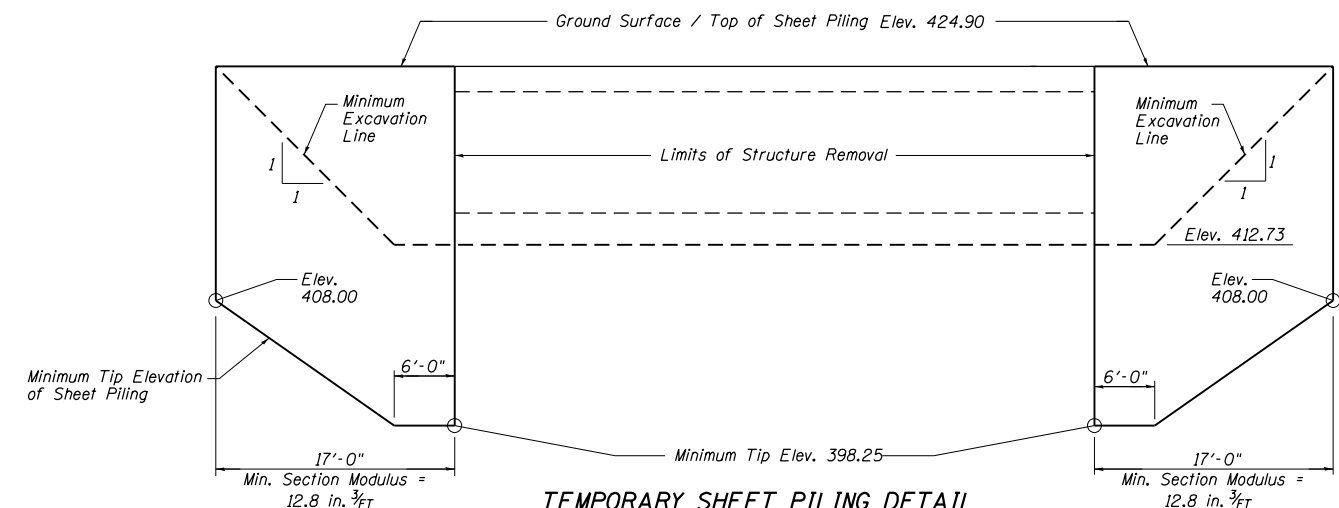


HALF SECTION THRU BARREL

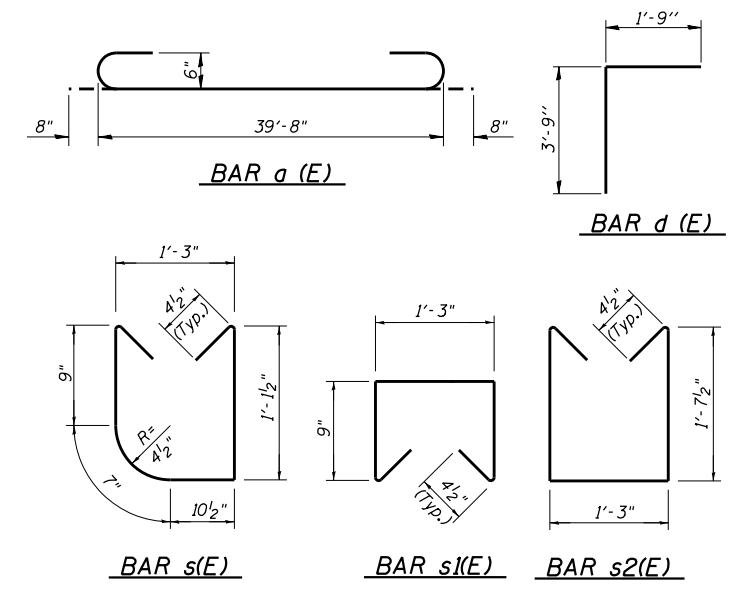
HALF END ELEVATION

NOTCH DETAIL LONGITUDINAL SECTION

PHOEBE NESTING SITE DETAIL (Near Downstream End)

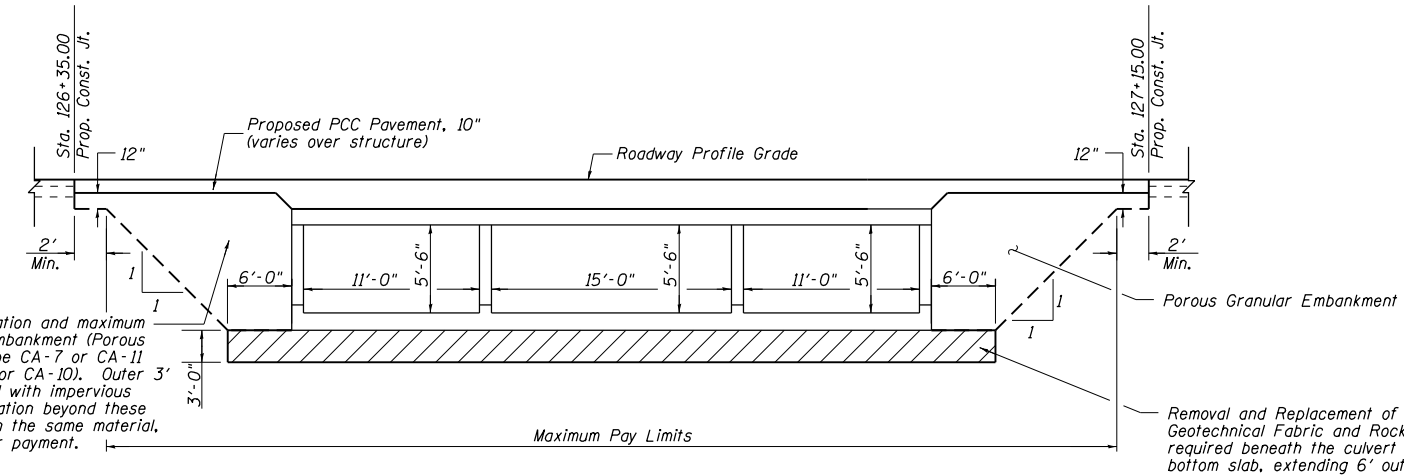


TEMPORARY SHEET PILING DETAIL

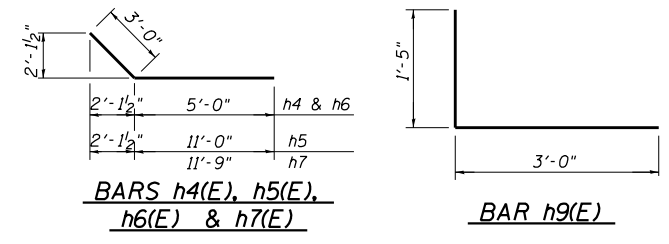


BILL OF MATERIAL

Bar	No.	Size	Length	Shape
a (E)	130	#6	41'-0"	
a1 (E)	158	#6	39'-8"	
d (E)	78	#4	5'-6"	
h (E)	77	#6	17'-7"	
h1 (E)	77	#6	24'-10"	
h2 (E)	88	#5	17'-7"	
h3 (E)	88	#5	24'-10"	
h4 (E)	18	#6	8'-0"	
h5 (E)	24	#6	14'-0"	
h6 (E)	18	#6	8'-0"	
h7 (E)	24	#6	14'-9"	
h8 (E)	26	#6	40'-0"	
h9 (E)	78	#5	4'-5"	
h10 (E)	4	#4	40'-0"	
h11 (E)	40	#4	17'-7"	
h12 (E)	40	#4	24'-10"	
s (E)	39	#4	4'-1"	
s1 (E)	39	#4	3'-6"	
s2 (E)	78	#4	5'-3"	
v (E)	176	#5	7'-3"	
v1 (E)	10	#4	11'-11"	
v2 (E)	10	#4	12'-5"	
Porous Granular Embankment			Cu. Yd.	300
Removal and Disposal of Unsuitable Materials			Cu. Yd.	241
Reinforcement Bars, Epoxy Coated			Pound	33,100
Concrete Box Culverts			Cu. Yd.	194.4
Bar Splicers			Each	205
Temporary Sheet Piling			Sq. Ft.	799
Membrane Waterproofing for Buried Structures			Sq. Yd.	196



GRANULAR CULVERT BACKFILL DETAIL



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USER NAME =	DESIGNED	CJW	1/25/2017	REVISED
	CHECKED	WLB	1/25/2017	REVISED
PLOT SCALE =	DRAWN	GLD	1/25/2017	REVISED
PLOT DATE =	CHECKED	WLB	1/25/2017	REVISED

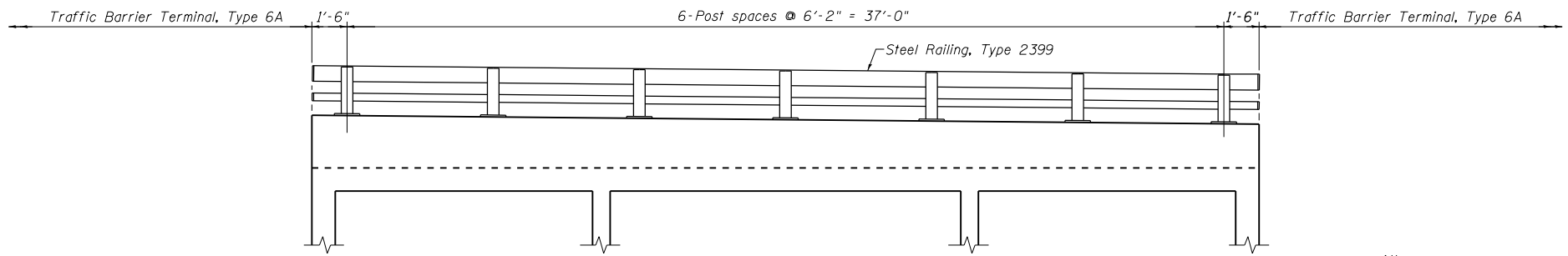
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**BOX CULVERT DETAILS - 2
STRUCTURE NO. 100-2024**
SHEET NO. 4 OF 8 SHEETS

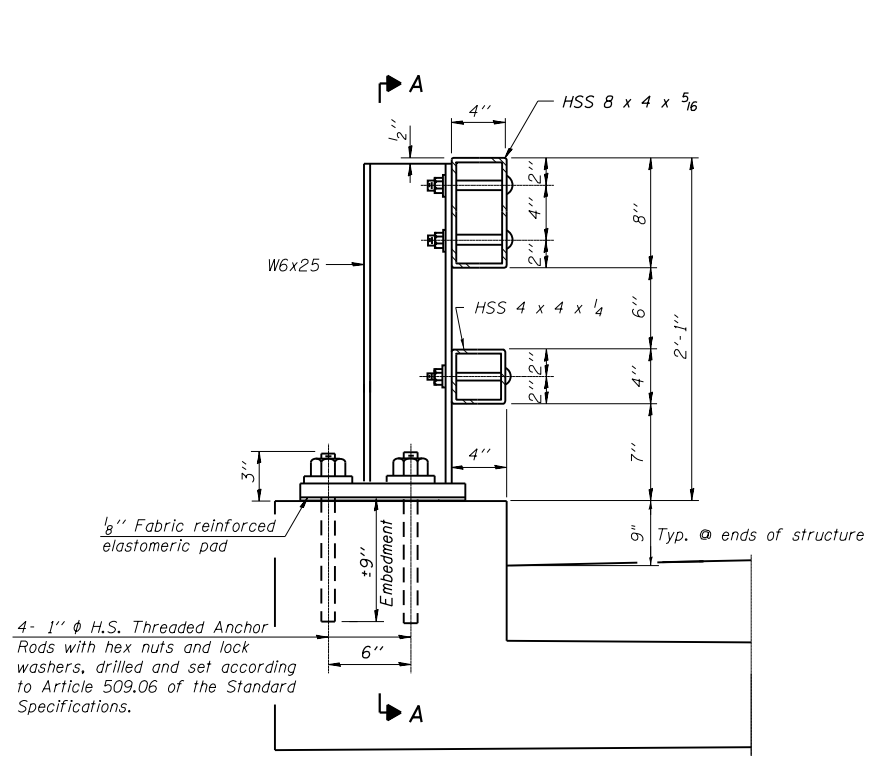
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2905	113B-1	WILLIAMSON	39	29
CONTRACT NO.			98855	

ILLINOIS FED. AID PROJECT

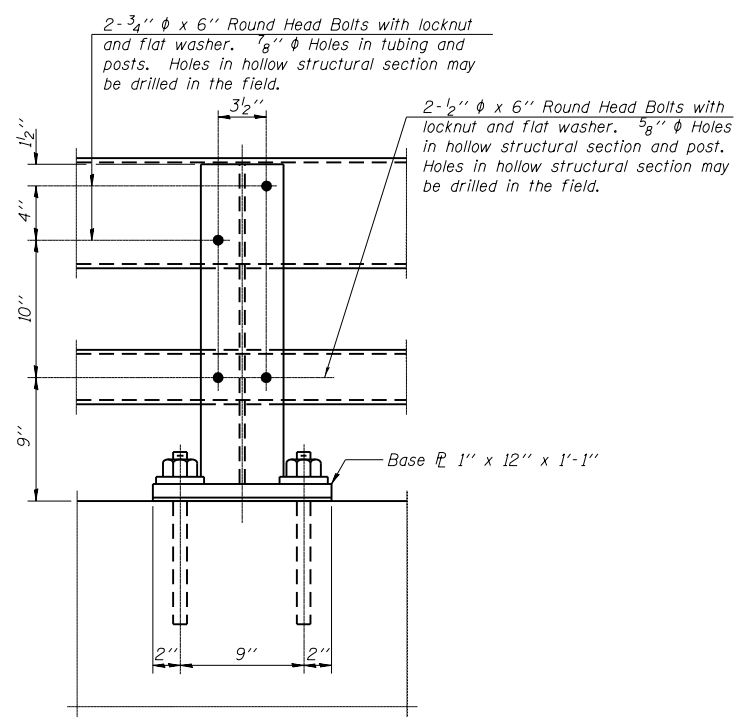
- NOTES:**
- Work this sheet with sheet 4 of 9.
 - If the contractor chooses to alter the temporary cantilevered sheet piling design requirements shown on the plans, a design submittal including plan details and calculations will be required for review and acceptance by the engineer.



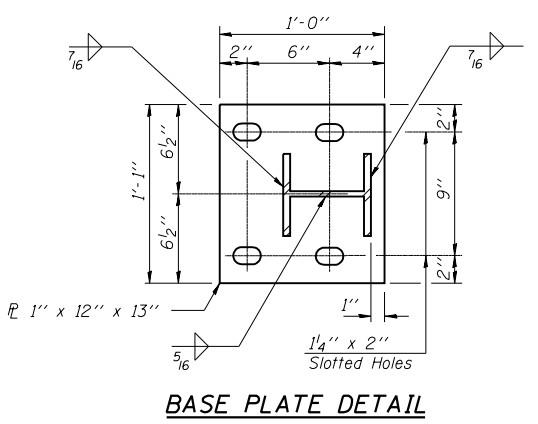
STEEL RAILING ELEVATION
(Typ. each side)



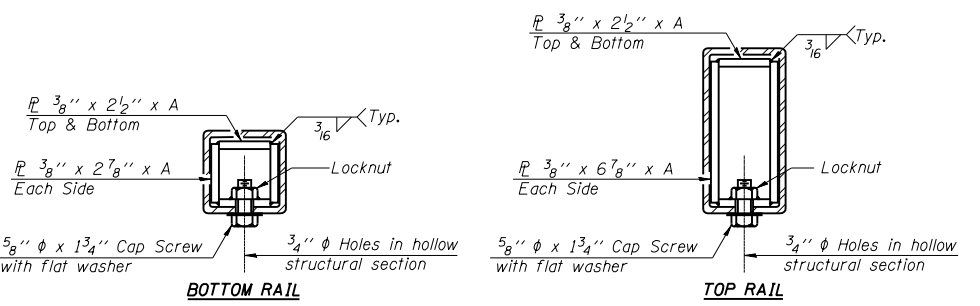
SECTION AT RAIL POST



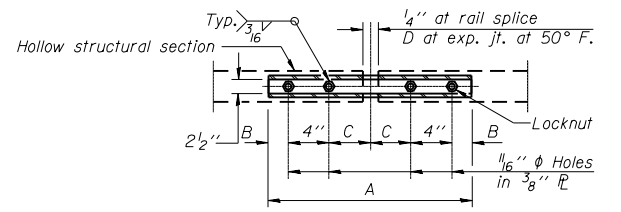
SECTION A-A



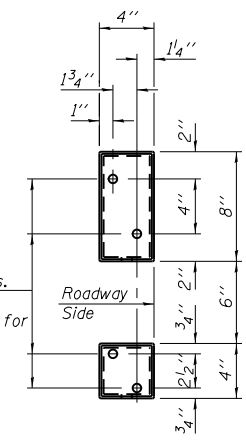
BASE PLATE DETAIL



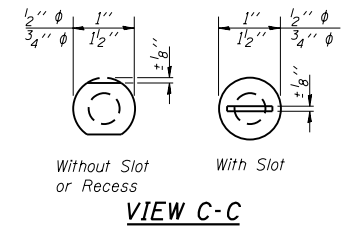
SECTIONS AT RAIL SPLICE



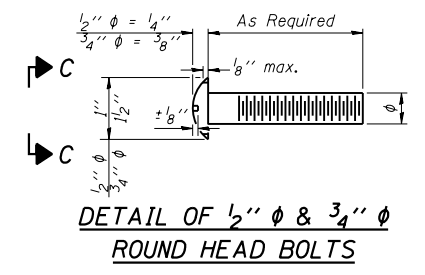
PLAN-BOTT. SPLICE @ TYPICAL



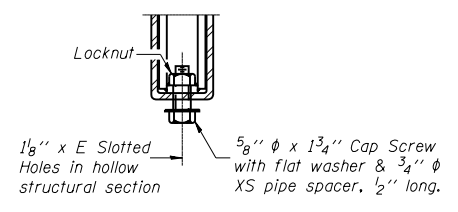
VIEW B-B



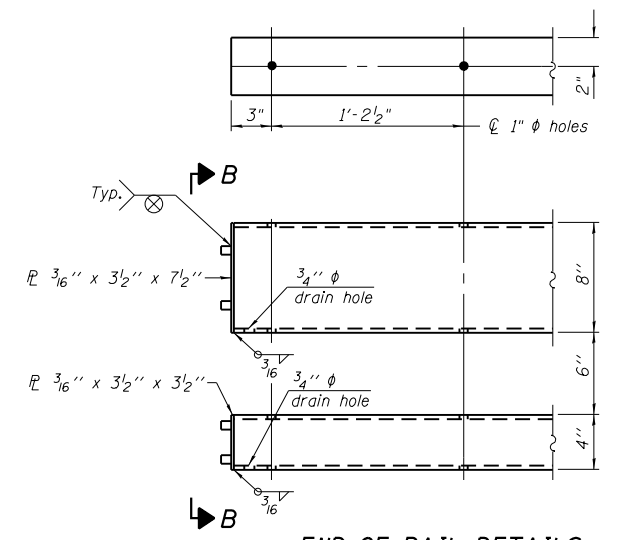
VIEW C-C



DETAIL OF 1/2" phi & 3/4" phi ROUND HEAD BOLTS



RAIL SPLICE CONNECTION AT EXPANSION JT.



END OF RAIL DETAILS

Notes:
 Posts shall not be located closer than 1'-3" to an existing bridge expansion joint or end of bridge.
 Steel Bridge Rail expansion joint shall be provided between any two (2) posts which span a bridge expansion joint. Bolts located at expansion joint shall be provided with locknuts and shall be tightened only to a point that will allow railing movement.
 Provide one 1/8" and two 1/16" steel shims for 25% of the posts. Shims shall be similar to base plates in size and holes.
 All steel rail elements shall be galvanized according to Article 509.05 of the Standard Specifications.

SPLICE DIMENSIONS

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

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

BILL OF MATERIAL

Item	Unit	Quantity
Steel Railing, Type 2399	Foot	80

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11-22-2016 (6'-3" Maximum Post Spacing)

USER NAME =	DESIGNED	REVISION
CJW	1/25/2017	REVIS
WLB	1/25/2017	REVIS
GLD	1/25/2017	REVIS
WLB	1/25/2017	REVIS

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

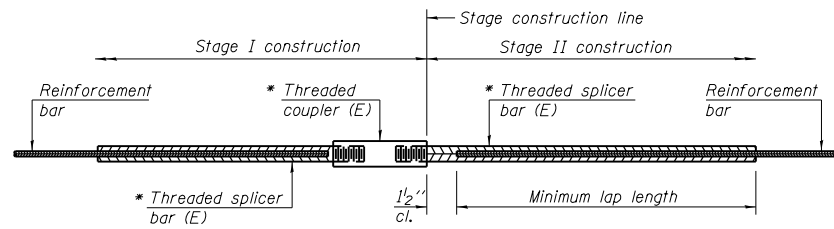
STEEL RAILING, TYPE 2399 STRUCTURE NO.

SHEET NO. 5 OF 8 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2905	113B-1	WILLIAMSON	39	30

CONTRACT NO. 98855

ILLINOIS FED. AID PROJECT

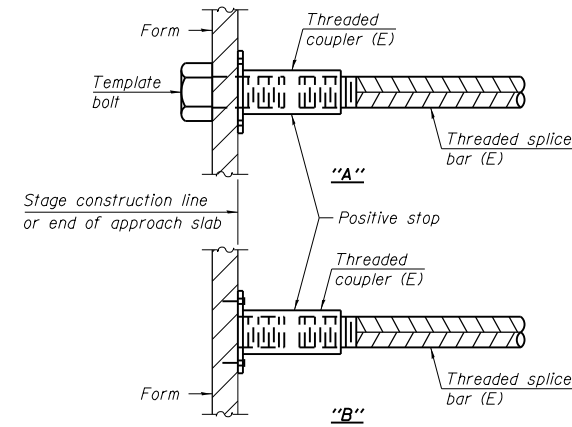


STANDARD BAR SPLICER ASSEMBLY

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

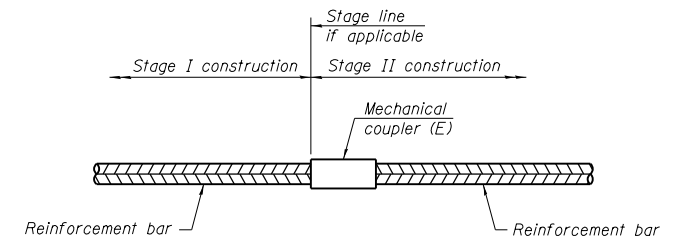
* Epoxy not required on Bar Splicer Assembly components used in conjunction with black bars.

Location	Bar size	No. assemblies required	Minimum lap length
Top of Top Slab	#4	40	2'-1"
Bottom of Top Slab	#6	53	3'-1"
Bottom Slab	#5	88	2'-7"
Culvert Barrel Walls	#6	24	3'-1"



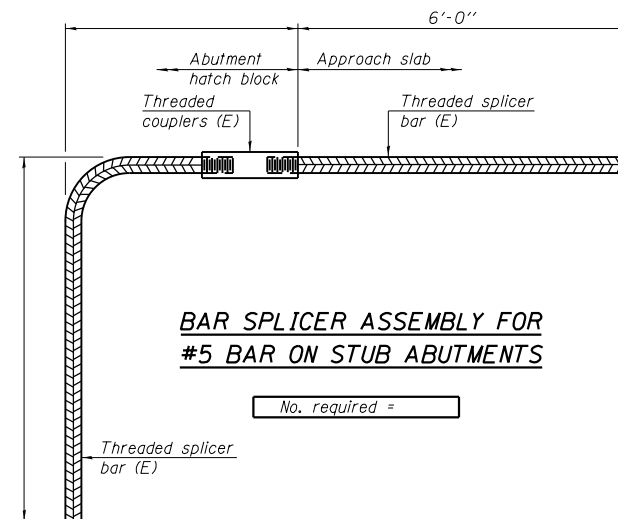
INSTALLATION AND SETTING METHODS

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



STANDARD MECHANICAL SPLICER

Location	Bar size	No. assemblies required



BAR SPLICER ASSEMBLY FOR #5 BAR ON STUB ABUTMENTS

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

11-22-2016



USER NAME =	DESIGNED	CJW	1/25/2017	REVISED
	CHECKED	WLB	1/25/2017	REVISED
PLOT SCALE =	DRAWN	GLD	1/25/2017	REVISED
PLOT DATE =	CHECKED	WLB	1/25/2017	REVISED

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BAR SPLICER ASSEMBLY AND MECHANICAL SPLICER DETAILS
STRUCTURE NO. 100-2024

SHEET NO. 6 OF 8 SHEETS

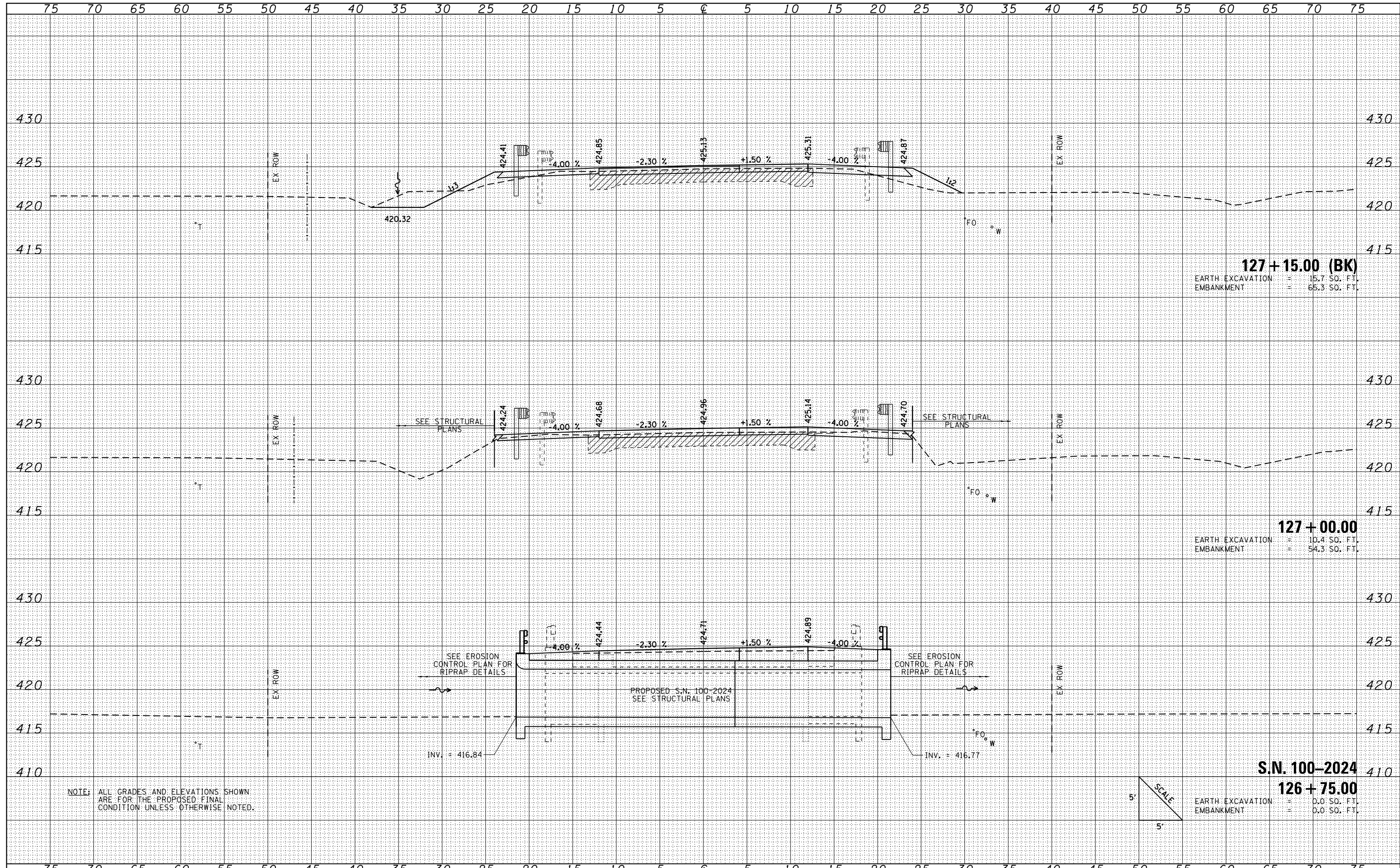
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2905	113B-1	WILLIAMSON	39	31
CONTRACT NO. 98855				

ILLINOIS FED. AID PROJECT

L:\1101\98855\10\15\Drawings\Structural\PLANS\1002024_98855_006_BAR_SPLICER.dgn

DATE	
BY	
SURVEYED	
PLOTTED	
TEMPLATE	
AREAS	
CHECKED	
NO.	

DATE	
BY	
SURVEYED	
PLOTTED	
TEMPLATE	
AREAS	
CHECKED	
NO.	



NOTE: ALL GRADES AND ELEVATIONS SHOWN ARE FOR THE PROPOSED FINAL CONDITION UNLESS OTHERWISE NOTED.

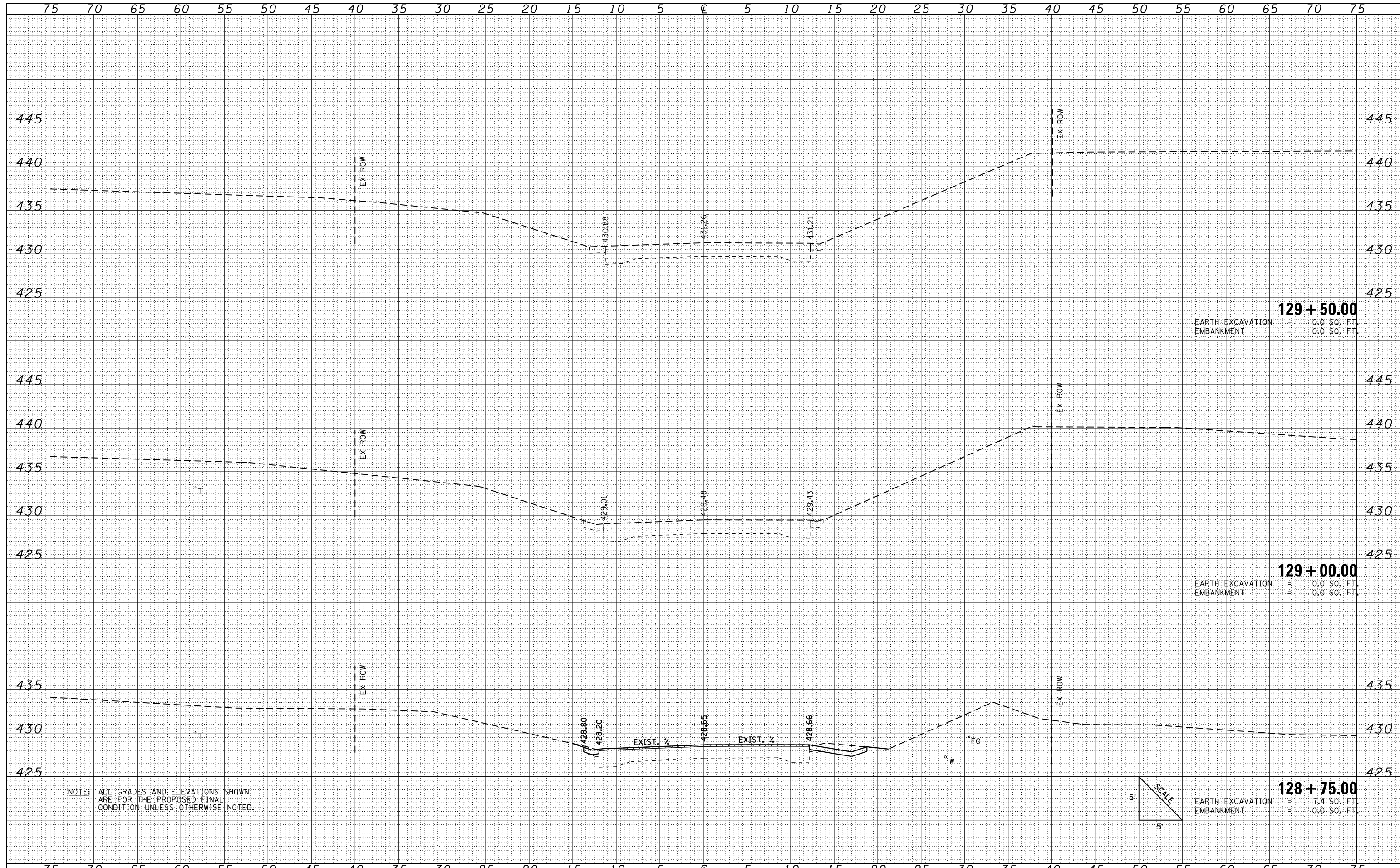
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L:\1001\0806610\10_5\Draw\Sheets\0998855-sht-XSC-IL137.dgn		DRAWN - RAH	REVISED -	2905	113B-1	WILLIAMSON	39	37
		CHECKED - JMM	REVISED -	SCALE:		SHEET NO. OF SHEETS		CONTRACT NO. 98855
		DATE - 02/01/2017	REVISED -	STA. 126+75.00 TO STA. 127+10.00		FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT		

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS
F.A.S. ROUTE 2905 (IL. RTE. 13)

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

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

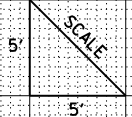


129 + 50.00
 EARTH EXCAVATION = 0.0 SQ. FT.
 EMBANKMENT = 0.0 SQ. FT.

129 + 00.00
 EARTH EXCAVATION = 0.0 SQ. FT.
 EMBANKMENT = 0.0 SQ. FT.

128 + 75.00
 EARTH EXCAVATION = 7.4 SQ. FT.
 EMBANKMENT = 0.0 SQ. FT.

NOTE: ALL GRADES AND ELEVATIONS SHOWN ARE FOR THE PROPOSED FINAL CONDITION UNLESS OTHERWISE NOTED.



FILE NAME =	USER NAME = *USERS*	DESIGNED - BJD	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	CROSS SECTIONS F.A.S. ROUTE 2905 (IL. RTE. 13)			F.A.S. RTE. 2905	SECTION 113B-1	COUNTY WILLIAMSON	TOTAL SHEETS 39	SHEET NO. 39
L:\IDOT\0806610\W0_5\Draw\Sheets\0998855-sht-XSC-IL137.dgn		DRAWN - RAH	REVISED -		SCALE:	SHEET NO.	OF SHEETS	STA. 128+75.00	TO STA. 129+50.00	FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT	CONTRACT NO. 98855
		CHECKED - JMM	REVISED -									
		DATE - 02/01/2017	REVISED -									