

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	(91-4B-1	UNION	160	1
		ILLINOIS	CONTRACT NO. 78522	

TRAFFIC DATA
SN091-0001 (NB)

FUNCTIONAL CLASSIFICATION: FEDERAL-AID INTERSTATE
 MAIN ROUTE
 ADT: 6920 (2017)
 PV: 53.8%
 TRUCKS: 46.2%
 DESIGN SPEED: 70 MPH
 POSTED SPEED: 70 MPH

TRAFFIC DATA
SN091-0002 (SB)

FUNCTIONAL CLASSIFICATION: FEDERAL-AID INTERSTATE
 MAIN ROUTE
 ADT: 6614 (2017)
 PV: 58.2%
 TRUCKS: 41.8%
 DESIGN SPEED: 70 MPH
 POSTED SPEED: 70 MPH

TRAFFIC DATA
SHAKE RAG ROAD (TR 277)

FUNCTIONAL CLASSIFICATION: LOCAL ROAD
 ADT: 127 (2017)
 PV: 96.8%
 TRUCKS: 3.2%
 DESIGN SPEED: 30 MPH
 POSTED SPEED: 30 MPH

TOWNSHIP

UNION COUNTY UNIT ROAD DISTRICT

DESIGN DESIGNATION : N.A.

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

POSTED SPEED : 70 MPH

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

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

CONTRACT NO. 78522

**PROPOSED
HIGHWAY PLANS**

FAI ROUTE 57 (I-57)
 SECTION (91-4)B-1
 PROJECT NHPP-MN6Q(190)
 BRIDGE REPLACEMENT
 OVER SHAKE RAG ROAD
 UNION COUNTY

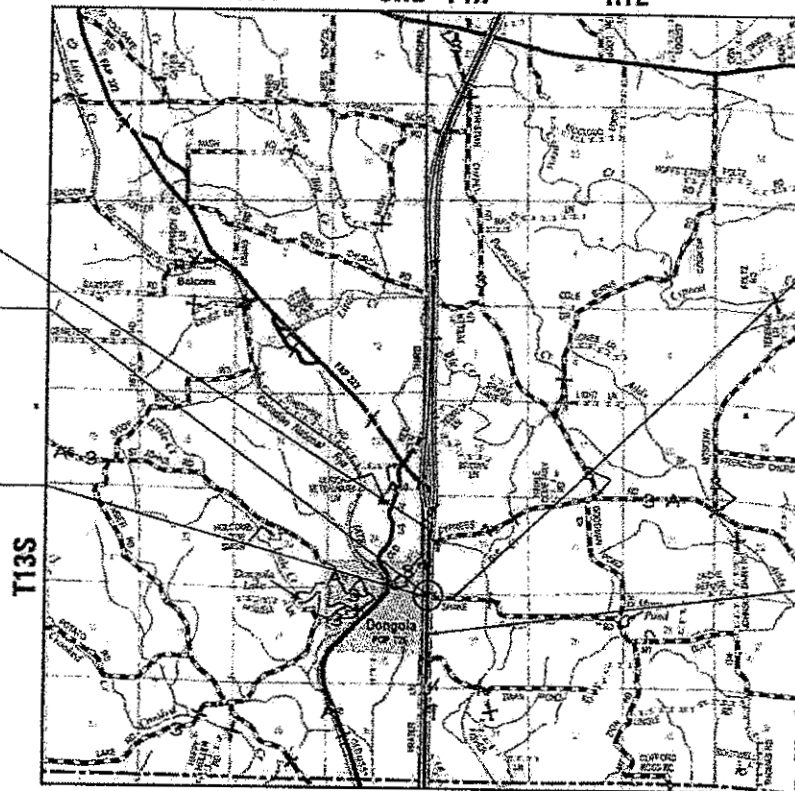
C-99-024-16

R1W 3RD PM R1E

IMPROVEMENTS BEGIN
STA 3035+40

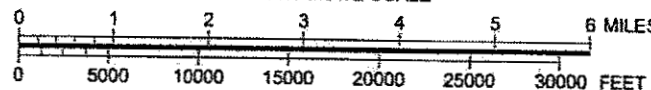
EXISTING STRUCTURE NO. 091-0001
 STATION 3040+23.00
 PROPOSED STRUCTURE NO. 091-0075
 STATION 3040+23.00
 OVER SHAKE RAG ROAD
 THREE SPAN W27 STEEL BEAMS
 127'-0" BK TO BK ABUTMENTS
 SKEWED 30° LEFT FORWARD

EXISTING STRUCTURE NO. 091-0002
 STATION 3039+62.96
 PROPOSED STRUCTURE NO. 091-0076
 STATION 3039+62.96
 OVER SHAKE RAG ROAD
 THREE SPAN W27 STEEL BEAMS
 127'-0" BK TO BK ABUTMENTS
 SKEWED 30° LEFT FORWARD



LOCATION MAP

APPROXIMATE SCALE



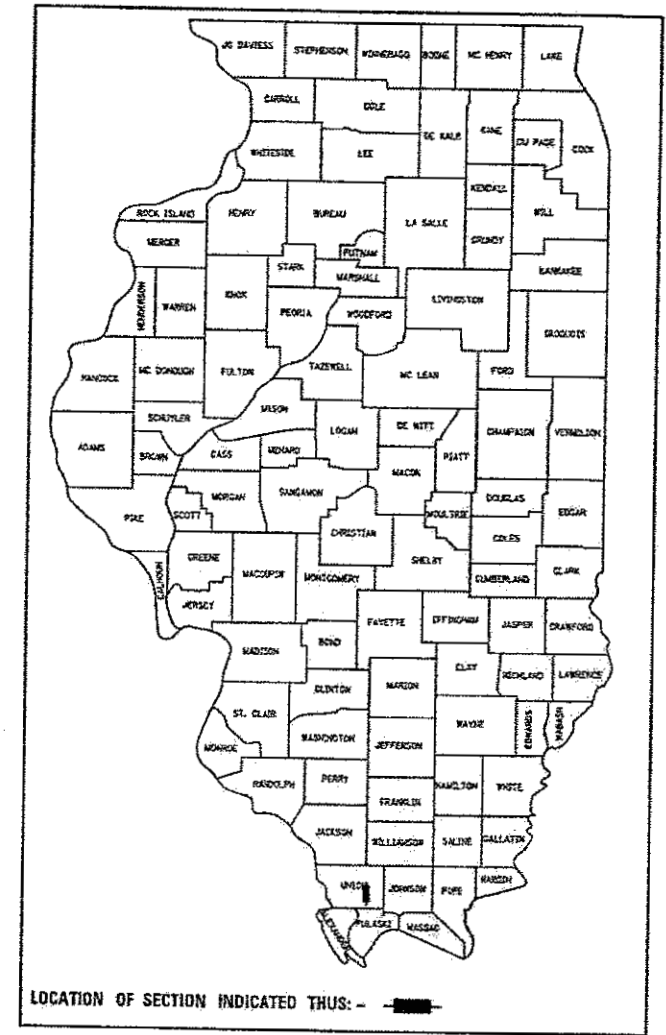
GROSS LENGTH = 1305.00 FT. = 0.247 MILES
 NET LENGTH = 1305.00 FT. = 0.247 MILES



EXPIRES 11-30-19

Signature of Eric L. Henkel

03-16-18
DATE



LOCATION OF SECTION INDICATED THUS: -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

SUBMITTED March 21 2018

Signature of Jeffrey Z. Keim
 REGION FIVE ENGINEER

Signature of Scott A. Etkin
 ENGINEER OF DESIGN AND ENVIRONMENT

Signature of Paul L. Chaffin
 DIRECTOR OF HIGHWAYS PROJECT IMPLEMENTATION

PRINTED BY THE AUTHORITY
OF THE STATE OF ILLINOIS



ESCA JOB NO. 1259.08

LIST OF ILLINOIS DOT HIGHWAY STANDARDS

STANDARD NO.	DESCRIPTION
000001-06	STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS
001001-02	AREAS OF REINFORCEMENT BARS
001006	DECIMAL OF AN INCH AND OF A FOOT
202001-01	EARTH MEDIAN DITCH CHECK
280001-07	TEMPORARY EROSION CONTROL SYSTEMS
420001-09	PAVEMENT JOINTS
420101-06	24' (7.2M) JOINTED PCC PAVEMENT
420401-12	PAVEMENT CONNECTOR (PCC) FOR BRIDGE APPROACH SLAB
421001-03	BAR REINFORCEMENT FOR CRC PAVEMENT
515001-03	NAME PLATE FOR BRIDGES
542401-03	METAL FLARED END SECTION FOR PIPE CULVERTS
542546-01	FLUSH INLET BOX FOR MEDIAN
601001-05	PIPE UNDERDRAINS
601101-02	CONCRETE HEADWALL FOR PIPE UNDERDRAINS
602301-04	INLET - TYPE A
602306-03	INLET - TYPE B
602401-04	PRECAST MANHOLE TYPE A 4' (1.22M) DIAMETER
602402	PRECAST MANHOLE TYPE A 5' (1.52M) DIAMETER
602601-05	PRECAST REINFORCED CONCRETE FLAT SLAB TOP
602701-02	MANHOLE STEPS
604001-04	FRAME AND LIDS TYPE 1
604036-03	GRATE TYPE 8
610001-08	SHOULDER INLET WITH CURB
630001-12	STEEL PLATE BEAM GUARDRAIL
630201-07	PCC/HMA STABILIZATION AT STEEL PLATE BEAM GUARDRAIL
630301-08	SHOULDER WIDENING FOR TYPE 1 (SPECIAL) GUARDRAIL TERMINALS
631031-15	TRAFFIC BARRIER TERMINAL, TYPE 6
631033-07	TRAFFIC BARRIER TERMINAL, TYPE 6B
635001-02	DELINEATORS
642001-02	SHOULDER RUMBLE STRIPS, 16 in.
701001-02	OFF-RD OPERATIONS, 2L, 2W, MORE THAN 15' (4.5m) AWAY
701006-05	OFF-RD OPERATIONS, 2L, 2W, 15' (4.5m) TO 24" (600mm) FROM PAVEMENT EDGE
701011-04	OFF-RD MOVING OPERATIONS, 2L, 2W, DAY ONLY
701101-05	OFF-RD OPERATIONS, MULTILANE, 15' (4.5m) TO 24" (600mm) FROM PAVEMENT EDGE
701106-02	OFF-RD OPERATIONS, MULTILANE, MORE THAN 15' (4.5m) AWAY
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
701400-09	APPROACH TO LANE CLOSURE, FREEWAY/EXPRESSWAY
701401-11	LANE CLOSURE, FREEWAY/EXPRESSWAY
701406-11	LANE CLOSURE, FREEWAY/EXPRESSWAY, DAY OPERATIONS ONLY
701411-09	LANE CLOSURE, MULTILANE, AT ENTRANCE OR EXIT RAMP, FOR SPEEDS ≥ 45 MPH
701416-11	LANE CLOSURE, FREEWAY/EXPRESSWAY, WITH CROSSOVER AND BARRIER
701426-09	LANE CLOSURE, MULTILANE, INTERMITTENT OR MOVING OPER., FOR SPEEDS ≥ 45 MPH
701901-07	TRAFFIC CONTROL DEVICES
704001-08	TEMPORARY CONCRETE BARRIER
720011-01	METAL POSTS FOR SIGNS, MARKERS & DELINEATORS
725001-01	OBJECT AND TERMINAL MARKERS
780001-05	TYPICAL PAVEMENT MARKINGS
781001-04	TYPICAL APPLICATIONS RAISED REFLECTIVE PAVEMENT MARKERS
782006	GUARDRAIL AND BARRIER WALL REFLECTOR MOUNTING DETAILS
B.L.R. 21-9	TYPICAL APPLICATION OF TRAFFIC CONTROL DEVICES FOR CONSTRUCTION ON RURAL LOCAL HIGHWAYS

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

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

PRINTED BY: ESCA CONSULTANTS INC. 11/15/18 10:53 AM
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USER NAME = SKM	DESIGNED - SKM	REVISED -
ESCA PROJECT NO. 1259.BB	DRAWN - SKM	REVISED -
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PLOT DATE = 3/6/2018 8:07:53 AM	DATE - 02/18	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

INDEX OF SHEETS AND HIGHWAY STANDARDS

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

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	(91-4)B-1	UNION	160	2
FED. ROAD DIST. NO.			ILLINOIS FED. AID PROJECT	

GENERAL NOTES

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

ALL HOT-MIX ASPHALT	2.016 TONS/CU YD
ALL AGGREGATE	2.05 TONS/CU YD
EARTH	110 LBS/CU FT
BITUMINOUS MATERIALS:	
ON PAVEMENT	0.05 POUND/SQ FT
INTERMEDIATE LIFTS	0.025 POUND/SQ FT
ON AGGREGATE SURFACE	0.25 POUND/SQ FT
- 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, OR CONSTRUCTION LIMITS, AND WHICH DO NOT INTERFERE WITH CONSTRUCTION, SHALL NOT BE DISTURBED.
- PROTECTIVE COAT SHALL BE APPLIED TO ALL GUTTER FLAGS AS NEEDED ACCORDING TO THE SEASONAL REQUIREMENTS OF ARTICLE 420.18.
- 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 CONTRACTOR SHALL STAMP STATIONING IN THE HOT MIX ASPHALT SURFACE AT 300 FT INTERVALS ON THE INSIDE EDGE OF THE OUTSIDE SHOULDER AND AS DIRECTED BY THE ENGINEER. THE STATION SYMBOL STAMPS USED SHALL BE FURNISHED BY THE CONTRACTOR. THEY SHALL BE 5 1/2 IN. TALL OF A DESIGN APPROVED BY THE ENGINEER, AND SHALL REMAIN THE PROPERTY OF THE CONTRACTOR.
- THE QUANTITY OF SHORT TERM PAVEMENT MARKING SHOWN IN THE PLANS IS BASED ON ONE APPLICATION ON THE COMPLETED SURFACE COURSE AND THAT NECESSARY AFTER REMOVAL OF TRAFFIC CONTROL. SHORT TERM PAVEMENT MARKING ON HMA SURFACE COURSE OR PCC SHALL BE TAPE.
- EXISTING PIPE UNDERDRAIN OUTLETS IN THE FORESLOPES OR MEDIAN SLOPES SHALL BE PRESERVED AND PROTECTED DURING CONSTRUCTION. ANY DAMAGE TO AN UNDERDRAIN OUTLET RESULTING FROM CONSTRUCTION ACTIVITY SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE.

- PRIOR TO PLACEMENT OF THE FINAL PAVEMENT MARKINGS THE RESIDENT ENGINEER SHALL CONTACT THE BUREAU OF OPERATIONS AND ARRANGE FOR INSPECTION AND APPROVAL OF THE PAVEMENT MARKING LAYOUT.
- THE TOP 6 IN. OF TOPSOIL SHALL BE STRIPPED FROM THE CONSTRUCTION LIMITS AT THE TEMPORARY CROSSOVER LOCATIONS. THIS MATERIAL SHALL BE STOCKPILED OFFSITE AT A LOCATION APPROVED BY THE ENGINEER AND REPLACED AFTER THE CROSSOVERS ARE REMOVED AND MAJOR GRADING OPERATIONS ARE COMPLETED. THIS WORK WILL BE PAID FOR AS TOPSOIL EXCAVATION AND PLACEMENT.
- CONNECTING OF NEW OR EXISTING STORM SEWER TO NEW OR EXISTING INLETS OR MANHOLES SHALL BE MADE IN A MANNER WHICH RESULTS IN A NEAT AND WATERTIGHT JOINT. WHEN PLACED THROUGH THE WALL OF AN INLET OR MANHOLE, STORM SEWER PIPE SHALL BE PLACED OR CUT FLUSH WITH THE FACE OF THE WALL AND DRESSED WITH MORTAR TO PROVIDE A SMOOTH ROUNDED OR BEVELED EDGE. THIS WORK WILL NOT BE PAID FOR SEPARATELY, BUT SHALL BE CONSIDERED AS INCLUDED IN THE CONTRACT UNIT PRICES OF THE STORM SEWERS OR STRUCTURES INVOLVED.
- AFTER A LIFT OF HOT MIX ASPHALT HAS BEEN PLACED, THE LANE SHALL REMAIN CLOSED TO TRAFFIC UNTIL THE NEW MAT HAS COOLED TO 150 DEGREES FAHRENHEIT.
- THERE ARE NO AVAILABLE WASTE SITES ON THE EXISTING RIGHT OF WAY WITHIN THE PROJECT LIMITS. DISPOSAL WILL BE THE RESPONSIBILITY OF THE CONTRACTOR AND WASTE MUST BE DISPOSED OF IN ACCORDANCE WITH ARTICLE 202.03 OF THE STANDARD SPECIFICATIONS.
- 14'-9" MINIMUM CLEARANCE UNDERNEATH BOTH STRUCTURES SHALL BE VERIFIED BY THE ENGINEER.
- TRIM EDGES OF EXISTING HOT MIX ASPHALT SURFACE FLUSH WITH EXISTING PAVEMENT PRIOR TO CONSTRUCTING NEW BASE COURSE WIDENING.
- HMA SHOULDERS SHALL BE MILLED TO THE SAME DEPTH AS ADJACENT ROADWAY TO FACILITATE PLACEMENT OF NEW HOT-MIX ASPHALT SHOULDERS.
- EXISTING TRAFFIC BARRIER TERMINALS TO BE REMOVED SHALL BE PAID FOR AS GUARDRAIL REMOVAL.
- BEFORE ORDERING PIPE CULVERTS, PIPE DRAINS, OR STORM SEWERS, THE CONTRACTOR SHALL CONSULT THE ENGINEER FOR EXACT LENGTHS.
- RUMBLE STRIPS SHALL BE CONSTRUCTED ON ALL NEW HMA SHOULDERS ON I-57. RUMBLE STRIPS WILL BE PAID PER FOOT AS SHOULDER RUMBLE STRIPS 16 INCH. THE RUMBLE STRIPS ADJACENT TO BOTH SOUTHBOUND LANES OF I-57 SHALL NOT BE INSTALLED UNTIL AFTER COMPLETION OF STAGE III.
- REFER TO HIGHWAY STANDARD 420101 FOR CONSTRUCTION DETAILS OF PCC PAVEMENT FOR CROSSOVERS.

- THE TEMPORARY PAVEMENT MARKING USED WITH HIGHWAY STANDARD 701416 IN STAGES II & III SHALL BE PAINT. SUPPLY, INSTALLATION, AND REMOVAL OF REFLECTORIZED PAVEMENT MARKING PAINT AND TAPE USED FOR TRAFFIC CONTROL AS SHOWN ON THE TRAFFIC CONTROL DRAWINGS WILL NOT BE PAID FOR SEPARATELY, BUT SHALL BE INCLUDED IN THE COST OF TRAFFIC CONTROL AND PROTECTION.
- TEMPORARY RAMPS SHALL BE CONSTRUCTED AT LOCATIONS DETERMINED BY THE ENGINEER. THIS WORK SHALL NOT BE PAID FOR SEPARATELY, BUT WILL BE INCLUDED IN THE SQUARE YARD PRICE FOR HOT-MIX ASPHALT SURFACE REMOVAL.
- THE EXISTING ROAD SIGNS THAT INTERFERE WITH CONSTRUCTION WILL BE REMOVED OR RELOCATED AS DIRECTED BY THE ENGINEER ACCORDING TO ARTICLE 107.25 OF THE STANDARD SPECIFICATIONS. AFTER THE CONSTRUCTION IS COMPLETED, THE CONTRACTOR WILL RE-ERECT THE SIGNS AS DIRECTED BY THE ENGINEER. THIS WORK WILL NOT BE PAID FOR SEPARATELY BUT SHALL BE CONSIDERED INCIDENTAL TO THE CONTRACT AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED.
- EARTH MEDIAN DITCH CHECKS SHALL BE INCLUDED IN THE COST OF EARTH EXCAVATION.
- THE COST OF REMOVING THE CONCRETE GUTTER AT THE BASE OF THE EXISTING SLOPE WALL IS INCLUDED IN REMOVAL OF EXISTING STRUCTURES.
- THE CONTRACTOR SHALL PROTECT THE EXISTING UTILITIES ON SHAKE RAG ROAD, INCLUDING THE WATER LINE, DURING BRIDGE DEMOLITION OPERATIONS.

COMMITMENTS

- SHAKE RAG ROAD WILL BE GRADED, COMPACTED, AND RESURFACED AS SHOWN IN THE PLANS AFTER THE BRIDGE CONSTRUCTION IS COMPLETE. THE PROPOSED PAVEMENT ELEVATIONS WILL NOT BE HIGHER THAN THOSE SHOWN ON THE PLANS.
- LETTER OF UNDERSTANDING L-9-18-002 WITH UNION COUNTY.
- DUE TO THE POTENTIAL PRESENCE OF THE INDIANA BAT AND GRAY BAT, CLEARING OF TREES SHALL BE PROHIBITED FROM APRIL 1 THROUGH SEPTEMBER 30.
- NO OTHER COMMITMENTS AS OF MARCH 16TH, 2018.

HMA MIXTURES REQUIREMENTS

MIXTURE USE	POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE	HOT-MIX ASPHALT SHOULDERS (BOTTOM LIFTS)	HOT-MIX ASPHALT SHOULDERS (TOP LIFT)	POLYMERIZED HOT-MIX ASPHALT BINDER COURSE	HOT-MIX ASPHALT SURFACE COURSE	TEMPORARY PAVEMENT (TOP LIFT)	TEMPORARY PAVEMENT (BOTTOM LIFTS)
AC/PG	SBS PG 76-22	PG 64-22	PG 64-22	SBS PG 76-22	PG 64-22	PG 64-22	PG 64-22
DESIGN AIR VOIDS	4.0% @ Ndes=90	4.0% @ Ndes=70	4.0% @ Ndes=70	4.0% @ Ndes=90	4.0% @ Ndes=70	4.0% @ Ndes=90	4.0% @ Ndes=70
MIX COMPOSITION	IL-9.5	IL-19.0	IL-9.5	IL-19.0	IL-9.5	IL-9.5	IL-19.0
FRICTION AGGREGATE	MIX D	N/A	MIX C	N/A	MIX C	MIX C	N/A
LOCATIONS	I-57 MAINLINE	I-57 SHOULDERS	I-57 SHOULDERS	I-57 MAINLINE	SHAKE RAG ROAD	CROSSOVERS	CROSSOVERS
MIXTURE WEIGHT	112 LBS/SQ YD/IN	112 LBS/SQ YD/IN	112 LBS/SQ YD/IN	112 LBS/SQ YD/IN	112 LBS/SQ YD/IN	112 LBS/SQ YD/IN	112 LBS/SQ YD/IN
ABR% (MAX)	SEE BDE SPECIAL PROVISION	SEE BDE SPECIAL PROVISION	SEE BDE SPECIAL PROVISION	SEE BDE SPECIAL PROVISION	SEE BDE SPECIAL PROVISION	SEE BDE SPECIAL PROVISION	SEE BDE SPECIAL PROVISION
QUALITY MANAGEMENT PROGRAM	QCQA	QCQA	QCQA	QCQA	QCQA	QCQA	QCQA
SUBLOT SIZE	N/A	N/A	N/A	N/A	N/A	N/A	N/A

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PLOT DATE = 4/25/2018 9:07:10 AM	DATE - 04/18	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

GENERAL NOTES AND COMMITMENTS

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

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	(91-4)B-1	UNION	160	3
CONTRACT NO. 78522				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

SUMMARY OF QUANTITIES				CONSTRUCTION CODE	
				90% FEDERAL 10% STATE ROADWAY 0010 ROADWAY	90% FEDERAL 10% STATE STRUCTURE 0010 S. N. 091-0075/76
CODE NO.	ITEM	UNIT	TOTAL QUANTITY		
28000400	PERIMETER EROSION BARRIER	FOOT	220	220	
28000500	INLET AND PIPE PROTECTION	EACH	16	16	
28200200	FILTER FABRIC	SQ YD	56	56	
28300400	AGGREGATE DITCH	TON	40	40	
31100100	SUBBASE GRANULAR MATERIAL, TYPE A	TON	202	202	
31100300	SUBBASE GRANULAR MATERIAL, TYPE A 4"	SQ YD	270	270	
31100700	SUBBASE GRANULAR MATERIAL, TYPE A 8"	SQ YD	5040	5040	
40600290	BITUMINOUS MATERIALS (TACK COAT)	POUND	4285	4285	
40600295	POLYMERIZED BITUMINOUS MATERIALS (TACK COAT)	POUND	3492	3492	
40600982	HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT	SQ YD	905	905	
40603240	POLYMERIZED HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N90	TON	2205	2205	
40603315	HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N70	TON	105	105	
40603545	POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N90	TON	510	510	
42000080	PAVEMENT CONNECTOR (PCC) FOR BRIDGE APPROACH SLAB	SQ YD	536	536	

14
 * SPECIALTY ITEM

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USER NAME = SKM
 ESCA PROJECT NO. 1259.08
 PLOT SCALE = 0.1667 / 1 in.
 PLOT DATE = 3/19/2018 12:57:06 PM

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

REVISED -
 REVISED -
 REVISED -
 REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES
 SCALE SHEET NO. 2 OF 9 SHEETS STA. TO STA.

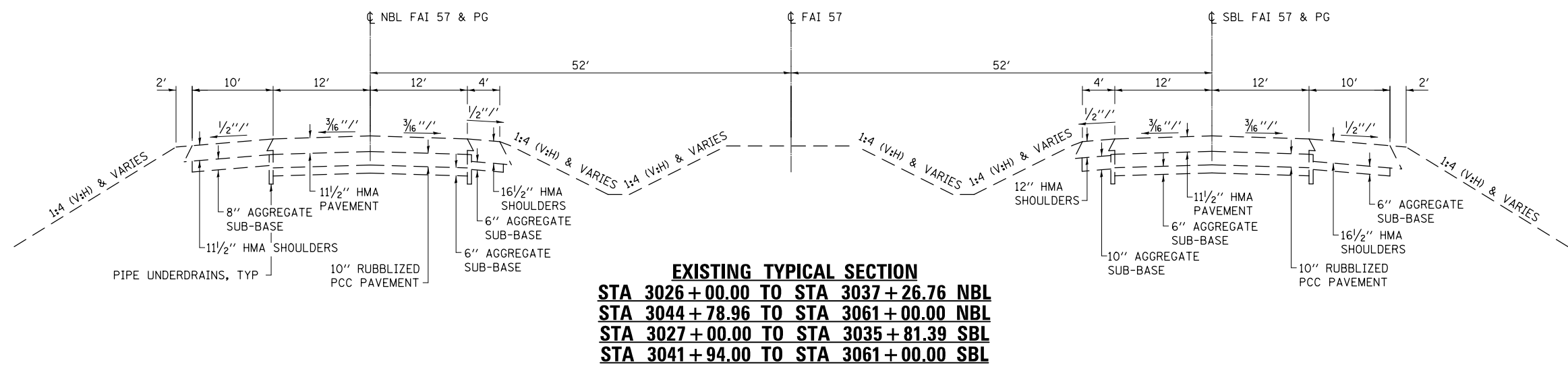
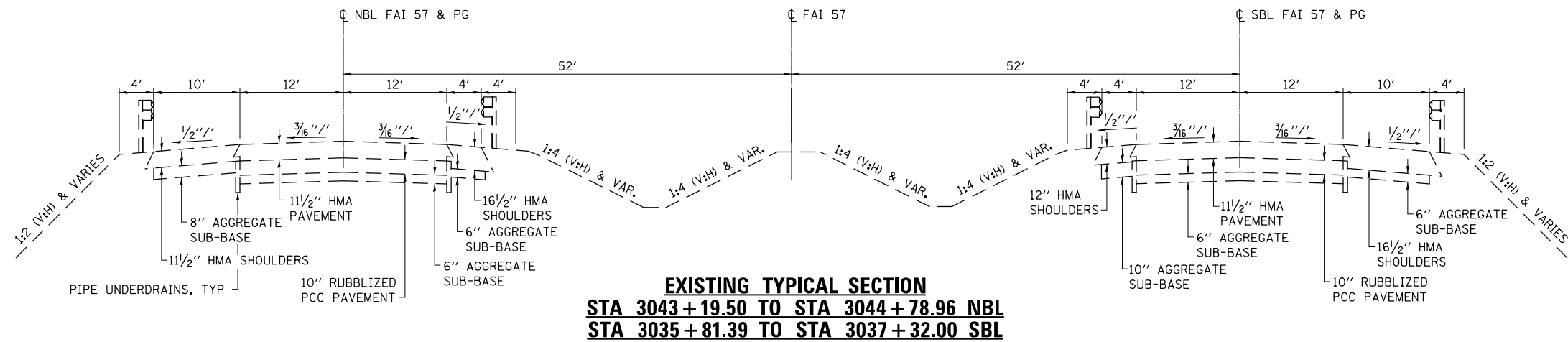
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	(91-4)B-1	UNION	160	5
CONTRACT NO. T8522				
FED. ROAD DIST. NO. [ILLINOIS] FED. AID PROJECT				

SUMMARY OF QUANTITIES				CONSTRUCTION CODE	
				90% FEDERAL 10% STATE ROADWAY 0010 ROADWAY	90% FEDERAL 10% STATE STRUCTURE 0010 S. N. 091-0075/76
CODE NO.	ITEM	UNIT	TOTAL QUANTITY		
61000335	TYPE G INLET BOX, STANDARD 610001	EACH	2	2	
⊗ 63100085	TRAFFIC BARRIER TERMINAL, TYPE 6	EACH	4	4	
63200310	GUARDRAIL REMOVAL	FOOT	363	363	
⊗ 63301210	REMOVE AND REERECT STEEL PLATE BEAM GUARDRAIL, TYPE A	FOOT	737.5	737.5	
63500105	DELINEATORS	EACH	7	7	
64200116	SHOULDER RUMBLE STRIPS, 16 INCH	FOOT	5820	5820	
67000400	ENGINEER'S FIELD OFFICE, TYPE A	CAL MO	27	27	
67100100	MOBILIZATION	L SUM	1	1	
70103815	TRAFFIC CONTROL SURVEILLANCE	CAL DAY	25	25	
70300100	SHORT TERM PAVEMENT MARKING	FOOT	2252	2252	
70300150	SHORT TERM PAVEMENT MARKING REMOVAL	SQ FT	751	751	
70300220	TEMPORARY PAVEMENT MARKING - LINE 4"	FOOT	38700	38700	
70400100	TEMPORARY CONCRETE BARRIER	FOOT	2525	2525	
70400200	RELOCATE TEMPORARY CONCRETE BARRIER	FOOT	2037.5	2037.5	

⊗ SPECIALTY ITEM

C:\Users\skm\OneDrive\Documents\ESCA\CADD\Highway\CADD_Sheets\0978522_sht_s001.dgn
 3/14/2018 12:57:07 PM

	USER NAME = SKM	DESIGNED - SKM	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SUMMARY OF QUANTITIES			F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	ESCA PROJECT NO. 1259.08	DRAWN - KJK	REVISED -		57	(91-4)B-1	UNION	160	9			
PLOT SCALE = 0.1667" = 1'	CHECKED - ELH	REVISED -			SCALE SHEET NO. 6 OF 9 SHEETS STA. TO STA.			CONTRACT NO. 78522				
PLOT DATE = 3/14/2018 12:57:07 PM	DATE - 02/18	REVISED -			FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT							



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 PLOT DATE = 3/19/2018 12:57:09 PM



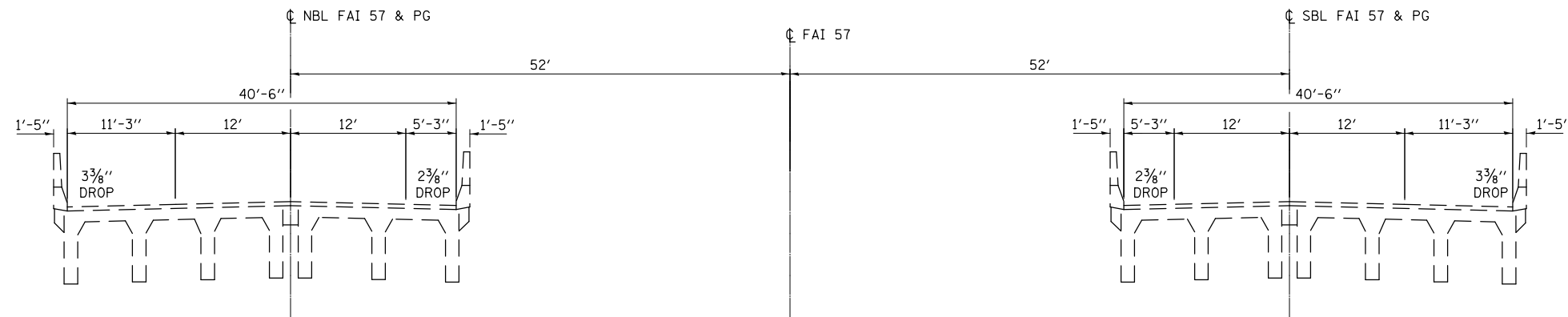
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ESCA PROJECT NO. 1259.08	DRAWN - KJA	REVISED -
PLOT SCALE = 0.1667' / 1" =	CHECKED - ELH	REVISED -
PLOT DATE = 3/19/2018 12:57:09 PM	DATE - 12/17	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

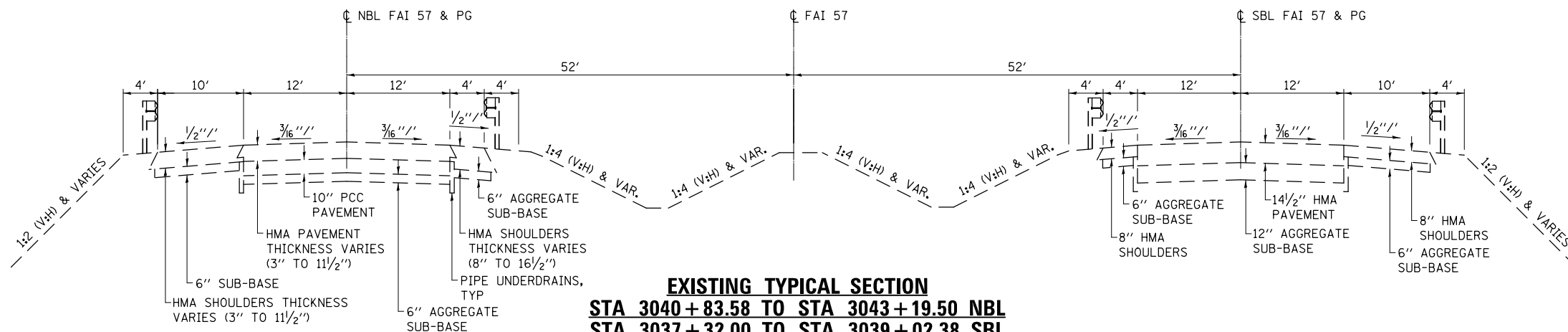
I-57 TYPICAL SECTIONS

SCALE: NONE SHEET NO. 1 OF 4 SHEETS STA. 3026+00.00 TO STA. 3061+00.00

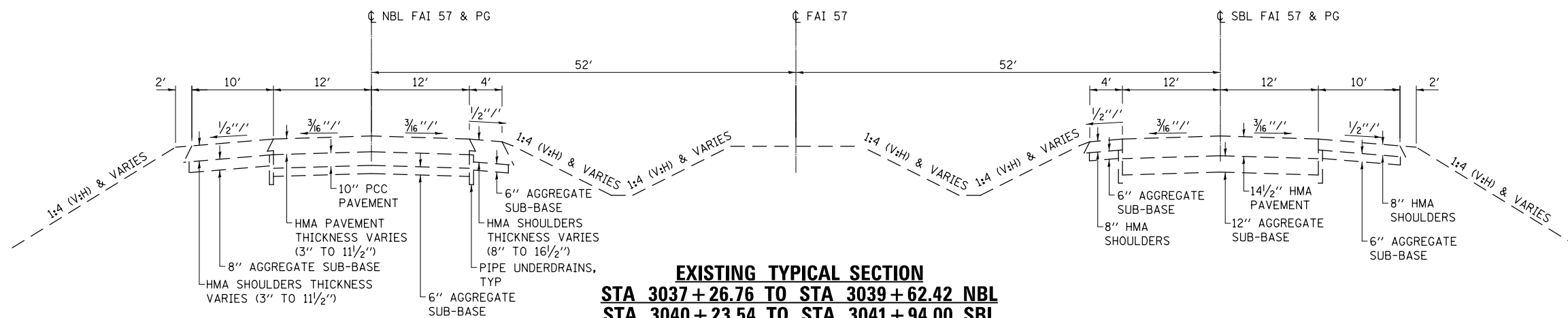
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	(91-4)B-1	UNION	160	13
CONTRACT NO. 78522				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				



EXISTING TYPICAL SECTION
STA 3039+62.42 TO STA 3040+83.58 NBL
STA 3039+02.38 TO STA 3040+23.54 SBL



EXISTING TYPICAL SECTION
STA 3040+83.58 TO STA 3043+19.50 NBL
STA 3037+32.00 TO STA 3039+02.38 SBL



EXISTING TYPICAL SECTION
STA 3037+26.76 TO STA 3039+62.42 NBL
STA 3040+23.54 TO STA 3041+94.00 SBL

PRINT DRIVER = L:\ESB\Bates\9
 ESCA PROJECT NO. 1259.08
 PLOT SCALE = 0.1667' / 1"



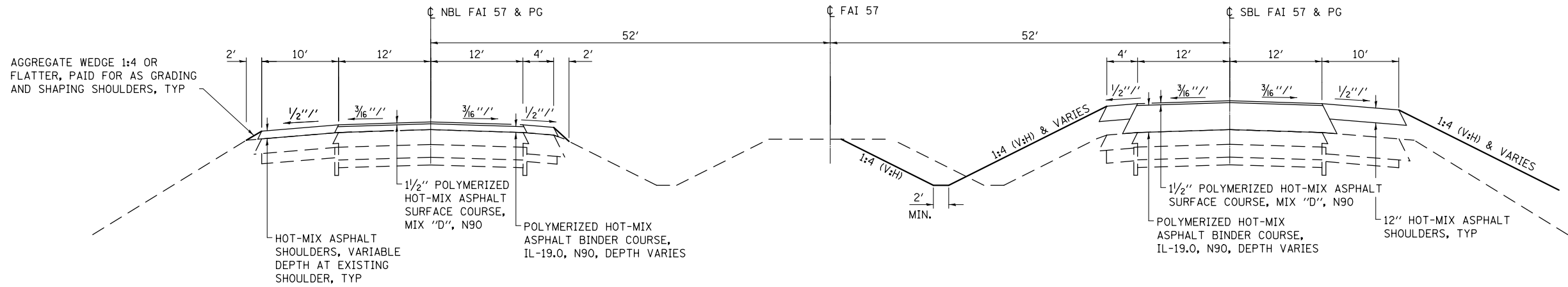
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ESCA PROJECT NO. 1259.08	DRAWN - KJA	REVISED -
PLOT SCALE = 0.1667' / 1"	CHECKED - ELH	REVISED -
PLOT DATE = 3/19/2018 12:57:09 PM	DATE - 12/17	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

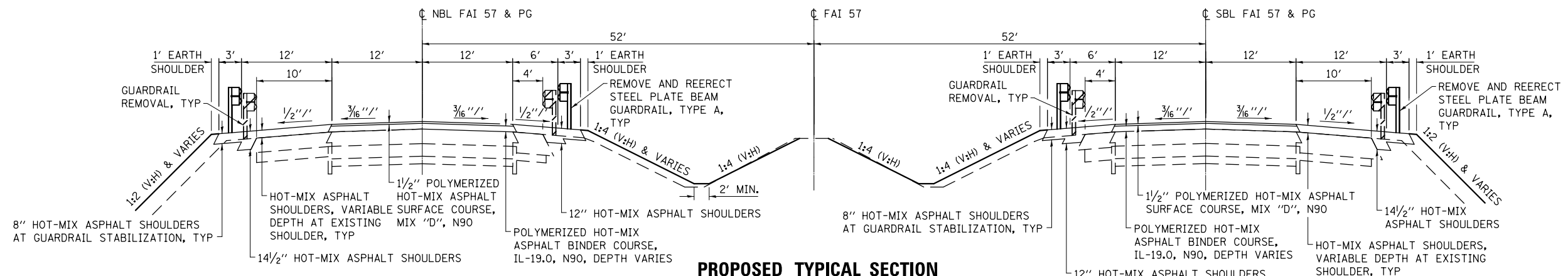
I-57 TYPICAL SECTIONS

SCALE: NONE SHEET NO. 2 OF 4 SHEETS STA. 3037+26.76 TO STA. 3043+19.50

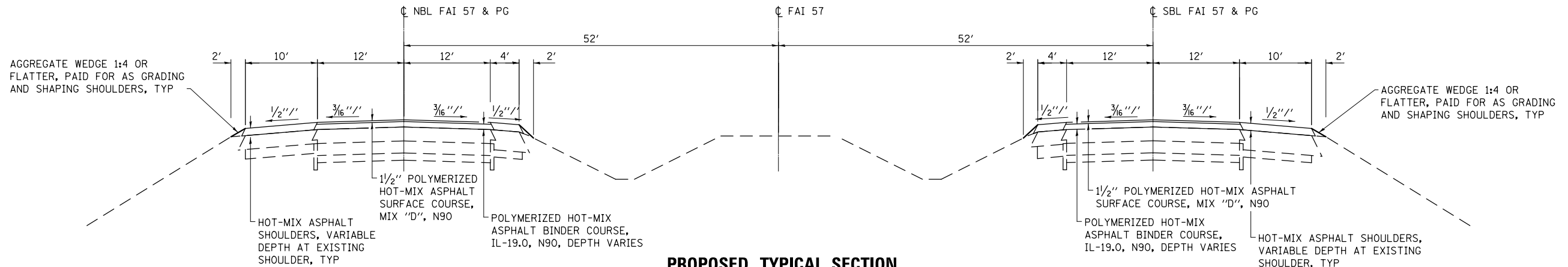
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	(91-4)B-1	UNION	160	14
CONTRACT NO. 78522				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				



PROPOSED TYPICAL SECTION
STA 3040+81.23 TO STA 3047+00.00 SBL



PROPOSED TYPICAL SECTION
STA 3041+44.73 TO STA 3043+78.00 NBL
STA 3036+59.00 TO STA 3038+41.23 SBL



PROPOSED TYPICAL SECTION
STA 3037+00.00 TO STA 3039+04.73 NBL
STA 3043+78.00 TO STA 3046+00.00 NBL
STA 3035+00.00 TO STA 3036+59.00 SBL
STA 3047+00.00 TO STA 3048+85.00 SBL

PRINT DRIVER = L:\05-EB\10179
 ESCA PROJECT NO. 1259.08
 PLOT SCALE = 0.1667' / 1"



USER NAME = SKM
 ESCA PROJECT NO. 1259.08
 PLOT SCALE = 0.1667' / 1"
 PLOT DATE = 3/19/2018 12:57:10 PM

DESIGNED - KJA
 DRAWN - KJA
 CHECKED - ELH
 DATE - 12/17

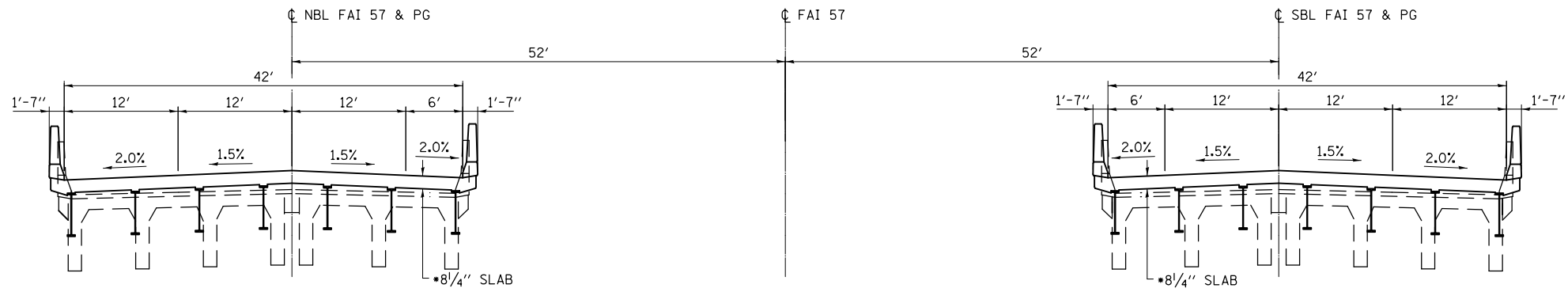
REVISED -
 REVISED -
 REVISED -
 REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

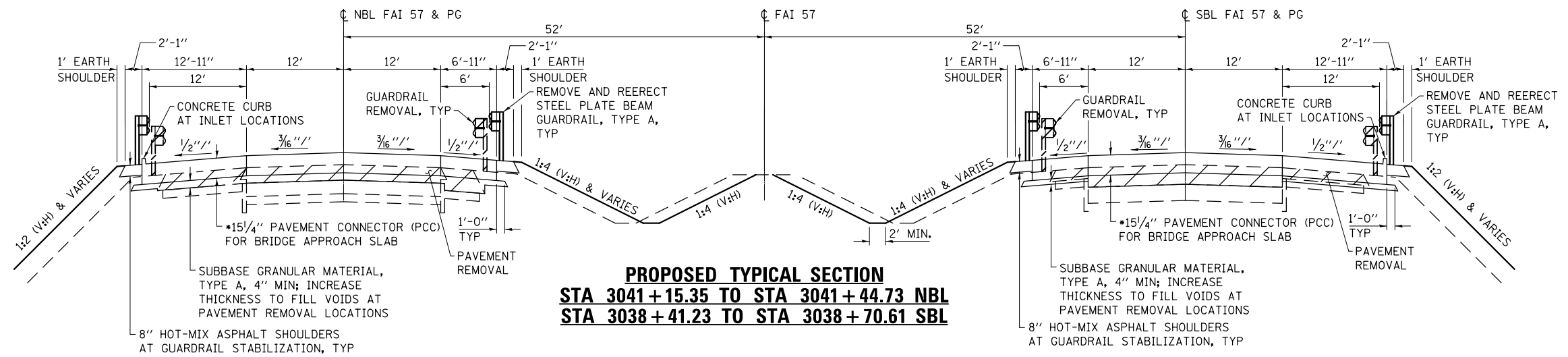
I-57 TYPICAL SECTIONS

SCALE: NONE SHEET NO. 3 OF 4 SHEETS STA. 3035+00.00 TO STA. 3048+85.00

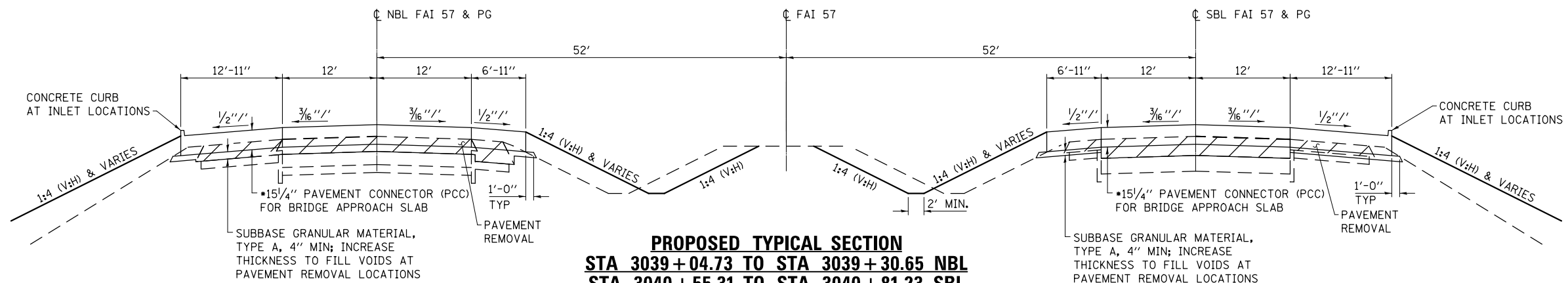
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57	(91-4)B-1	UNION	160	15
CONTRACT NO. 78522				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				



PROPOSED TYPICAL SECTION
STA 3039+59.50 TO STA 3040+86.50 NBL
STA 3038+99.46 TO STA 3040+26.46 SBL



PROPOSED TYPICAL SECTION
STA 3041+15.35 TO STA 3041+44.73 NBL
STA 3038+41.23 TO STA 3038+70.61 SBL



PROPOSED TYPICAL SECTION
STA 3039+04.73 TO STA 3039+30.65 NBL
STA 3040+55.31 TO STA 3040+81.23 SBL

PRINT DRIVER = L:\0-EB\Bates\19
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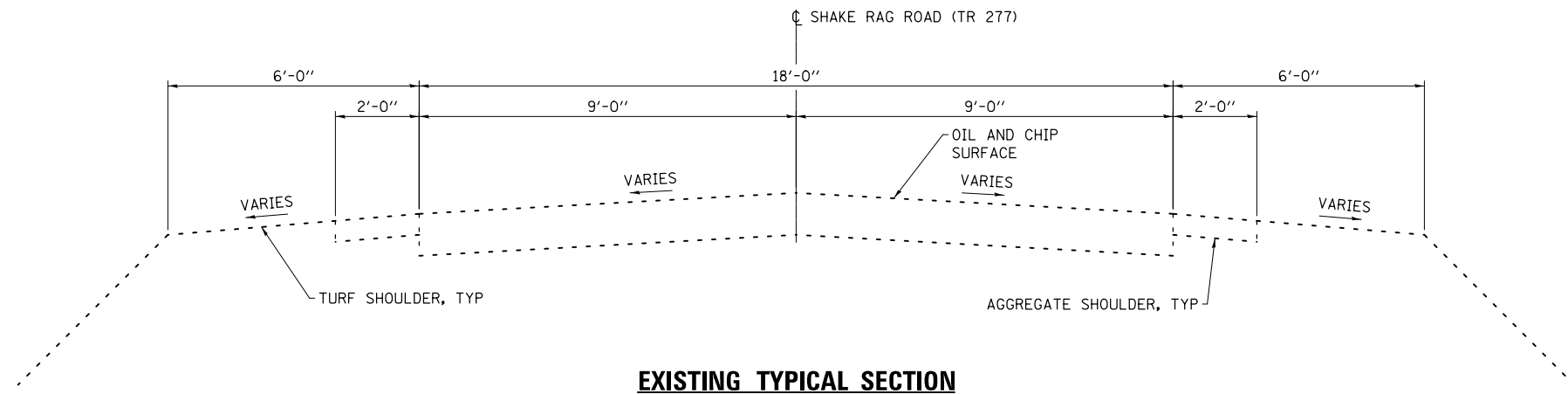
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ESCA PROJECT NO. 1259.08	DRAWN - KJA	REVISED -
PLOT SCALE = 0.1667' / 1" = 1/6"	CHECKED - ELH	REVISED -
PLOT DATE = 3/19/2018 12:57:11 PM	DATE - 02/18	REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

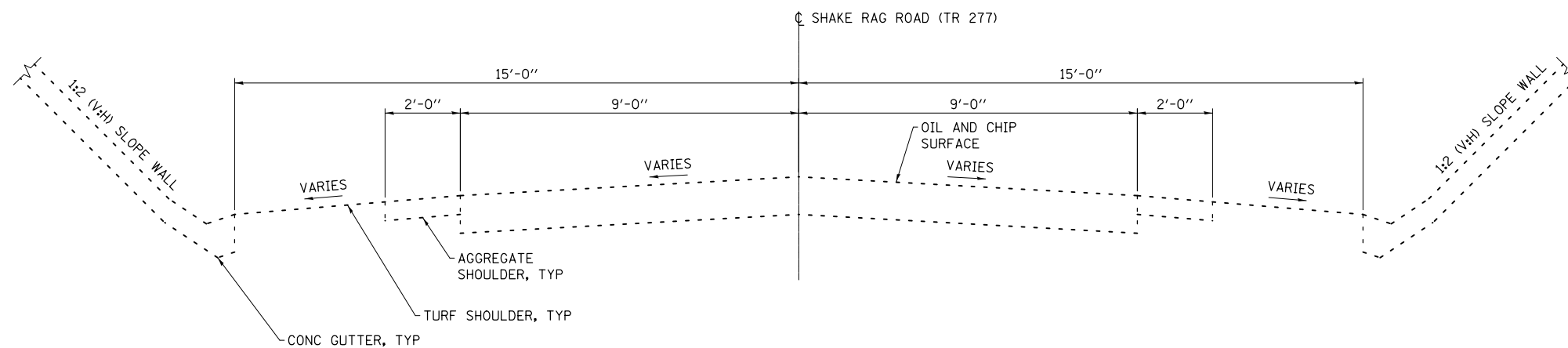
I-57 TYPICAL SECTIONS

SCALE: NONE SHEET NO. 4 OF 4 SHEETS STA. 3038+41.23 TO STA. 3041+44.73

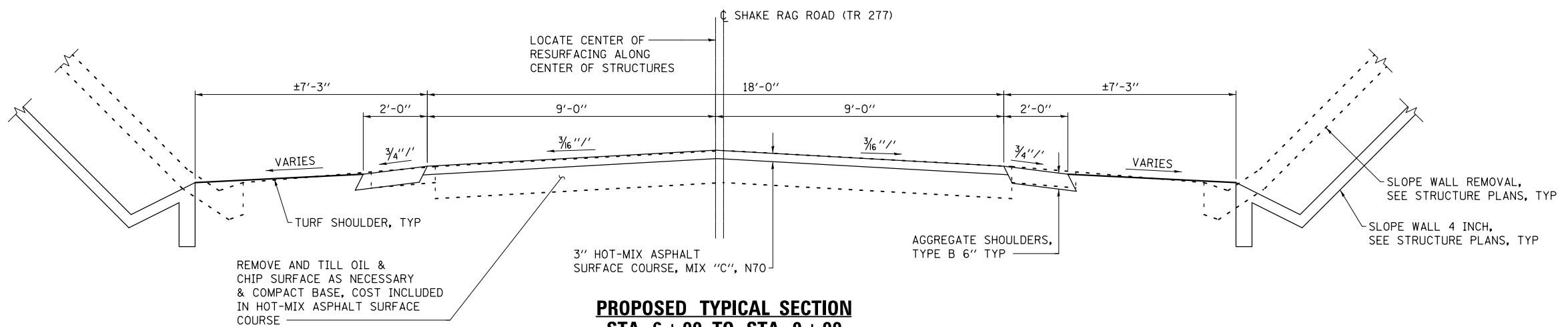
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	(91-4)B-1	UNION	160	16
CONTRACT NO. 78522				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				



EXISTING TYPICAL SECTION
STA 1+00 TO STA 6+50
STA 8+70 TO STA 10+10



EXISTING TYPICAL SECTION
STA 6+50 TO STA 8+70



PROPOSED TYPICAL SECTION
STA 6+00 TO STA 9+00

PRINT DRIVER = L:\0-EB\Bates\9
 SCALE NAME = PLOT
 FILE NAME = 020222-wa-1-gp-10-10-18.dwg



USER NAME = SKM	DESIGNED - KJA/ELH	REVISED - - -
ESCA PROJECT NO. 1259.08	DRAWN - KJA/KAH	REVISED - - -
PLOT SCALE = 0.1667' / 1" =	CHECKED - ELH	REVISED - - -
PLOT DATE = 3/19/2018 12:57:11 PM	DATE - 02/18	REVISED - - -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

SHAKE RAG ROAD
 TYPICAL SECTIONS

SCALE: NONE SHEET NO. 1 OF 1 SHEETS STA. 1+00 TO STA. 10+10

F.A.I. RTE. 57	SECTION (91-4)B-1	COUNTY UNION	TOTAL SHEETS 160	SHEET NO. 17
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT			CONTRACT NO. 78522	

PIPE UNDERDRAIN SCHEDULE				
LOCATION	CONCRETE HEADWALL REMOVAL	CONCRETE HEADWALLS FOR PIPE DRAINS	PIPE UNDERDRAINS 4" (SPECIAL)	REMOVE AND REINSTALL CONCRETE HEADWALL FOR PIPE DRAIN
	EACH	EACH	FOOT	EACH
STA 3030+07	1	1	44	1
STA 3030+97	1	1	41	
STA 3035+04	2	2	49	
STA 3042+01	1	1	11	
STA 3045+01	1	1	8	
STA 3048+05	1	1	9	
STA 3052+57	1	1	5	
STA 3054+04	1	1	35	1
STA 3060+03	1	1	2	
SN 091-0075		2		
SN 091-0076		2		
TOTALS	10	14	204	2

EROSION CONTROL SCHEDULE							
LOCATION	EROSION CONTROL BLANKET	TEMPORARY EROSION CONTROL SEEDING	PERIMETER EROSION BARRIER	TEMPORARY DITCH CHECKS	INLET AND PIPE PROTECTION	FILTER FABRIC	AGGREGATE DITCH
	SQ YD	POUND	FOOT	FOOT	EACH	SQ YD	TON
NORTHEAST QUADRANT	540	40					
NORTHWEST QUADRANT	280	30					
SOUTHWEST QUADRANT	582	150				56	40
SOUTHEAST QUADRANT	2460	100	220				
NORTH MEDIAN	620	370		125	5		
SOUTH MEDIAN	615	660		540	11		
TOTALS	5097	1350	220	665	16	56	40

PAVEMENT MARKING SCHEDULE										
LOCATION	SHORT TERM PAVEMENT MARKING		SHORT TERM PAVEMENT MARKING REMOVAL	MODIFIED URETHANE PAVEMENT MARKING - LINE 4"		RAISED REFLECTIVE PAVEMENT MARKER	REPLACEMENT REFLECTOR	RAISED REFLECTIVE PAVEMENT MARKER REMOVAL	PAVEMENT MARKING REMOVAL - WATER BLASTING	RAISED REFLECTIVE PAVEMENT MARKER, REFLECTOR REMOVAL
	FOOT		SQ FT	FOOT		EACH	EACH	EACH	SQ FT	EACH
	WHITE	YELLOW		WHITE	YELLOW					
NB I-57										
STA 3026+69 TO STA 3085+00	824	240	355	7300	5840	12	20	8	4380	20
FOR STAGE II									1220	
FOR STAGE III									203	
SB I-57										
SB ENTRANCE RAMP	32		11	600					200	
STA 2997+36 TO STA 3060+69	900	256	385	7910	6300	18	26	15	4740	26
FOR STAGE II									340	
FOR STAGE III									1487	
SUBTOTALS	1756	496	751	15810	12140	30	46	23	12570	46
TOTALS	2252		751	27950		30	46	23	12570	46

GUARDRAIL SCHEDULE									
LOCATION	GUARDRAIL REMOVAL	TBT, TYPE 6	REMOVE AND RE-ERECT SPBCR, TYPE A	TEMPORARY TBT, TYPE 6	TERMINAL MARKER - DIRECT APPLIED	GUARDRAIL REFLECTORS, TYPE A	TBT, TYPE 6B (SPECIAL)	REMOVE AND RE-ERECT TBT, TYPE 1 SPECIAL, TANGENT	TEMPORARY TBT, TYPE 1 SPECIAL, (FLARED)
	FOOT	EACH	FOOT	EACH	EACH	EACH	EACH	EACH	EACH
SN 091-0075 SOUTHWEST CORNER	70	1	187.5		1	3		1	
SN 091-0075 SOUTHEAST CORNER	82	1	250.0		1	4		1	
SN 091-0076 NORTHWEST CORNER	144	1	112.5		1	2		1	
SN 091-0076 NORTHEAST CORNER	67	1	187.5		1	3		1	
SN 091-0076 SOUTHEAST CORNER				1	1	3			1
SN 091-0001 NORTHWEST CORNER					1	3	1		1
TOTALS	363	4	737.5	1	6	18	1	4	2

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 USER NAME = J.PLOT
 FILE NAME = 030222-wa-1-mch-4-10-03.dgn



USER NAME = SKM	DESIGNED - SKM	REVISED -
ESCA PROJECT NO. 1259.08	DRAWN - SKM	REVISED -
PLOT SCALE = 0.1667' / 1"	CHECKED - ELH	REVISED -
PLOT DATE = 3/19/2018 12:57:13 PM	DATE - 03/18	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

SCHEDULES OF QUANTITIES

SCALE: NA SHEET NO. 3 OF 4 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	(91-4)B-1	UNION	160	20
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT			CONTRACT NO. 78522	

TEMPORARY PAVEMENT MARKING SCHEDULE			
LOCATION	TEMPORARY PAVEMENT MARKING - LINE 4"		TEMPORARY PAVEMENT MARKING REMOVAL
	FOOT		SQ FT
	WHITE	YELLOW	
AFTER STAGE II			
NB I-57			
STA 3035+08 TO STA 3085+00		5000	1667
STA 3037+00 TO STA 3052+50	1550		517
STA 3038+50 TO STA 3085+00	1200		400
SB I-57			
SB ENTRANCE RAMP			
STA 3011+14 TO STA 3021+14	600		200
STA 3021+14 TO STA 3060+75	1250		417
	4930	3960	2962
AFTER STAGE III			
NB I-57			
STA 3026+69 TO STA 3070+69	5500	4400	3300
STA 3070+69 TO STA 3080+69	1260		420
SB I-57			
STA 2997+36 TO STA 3053+50	3210	5580	2930
STA 3053+50 TO STA 3056+06		260	87
	SUBTOTALS	19500	12900
	TOTALS	38700	12900

TEMPORARY CONCRETE BARRIER SCHEDULE			
LOCATION	TEMPORARY CONCRETE BARRIER	RELOCATE TEMPORARY CONCRETE BARRIER	BARRIER WALL REFLECTORS, TYPE B
	FOOT	FOOT	EACH
	STAGE II TRAFFIC CONTROL		
STA 3035+08 TO STA 3055+34	2037.5		249
STAGE III TRAFFIC CONTROL			
STA 3030+87 TO STA 3056+06	487.5	2037.5	315
	TOTALS	2525	564

TEMPORARY RAISED REFLECTIVE PAVEMENT MARKER SCHEDULE		
LOCATION	TEMPORARY RAISED REFLECTIVE PAVEMENT MARKER	
	EACH	
	WHITE	YELLOW
STAGE I		
NORTH TAPER		66
SOUTH TAPER		66
STAGE II		
NORTH TAPER	51	
SOUTH TAPER		51
NORTH CROSSOVERS	43	43
SOUTH CROSSOVERS	55	55
STAGE III		
NORTH TAPER		51
SOUTH TAPER	51	
NORTH CROSSOVERS	43	43
SOUTH CROSSOVERS	55	55
STAGE IV		
NORTH TAPER		66
SOUTH TAPER		66
	SUBTOTALS	298
	TOTALS	860

CONCRETE GUTTER SCHEDULE		
LOCATION	CONCRETE GUTTER (SPECIAL)	PROTECTIVE COAT
	FOOT	SQ YD
	SHAKE RAG RD STA 5+89 TO 6+58, LT	71
SHAKE RAG RD STA 6+35 TO 6+78, RT	46	21
	TOTALS	117

CONCRETE WINGWALL EXTENSION SCHEDULE			
LOCATION	CONCRETE REMOVAL	CONCRETE SUPERSTRUCTURE	REINFORCEMENT BARS
	CU YD	CU YD	POUND
	SN 091-0001 NORTHWEST WINGWALL	0.1	0.4
	TOTALS	0.1	66

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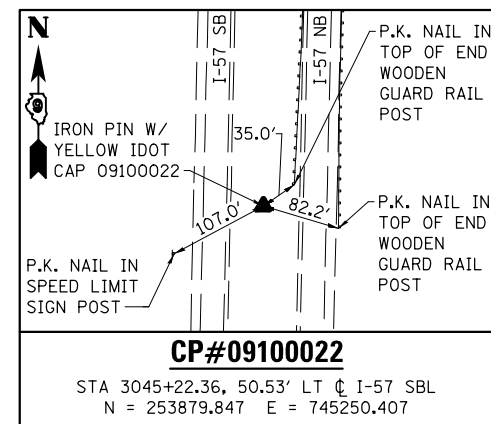
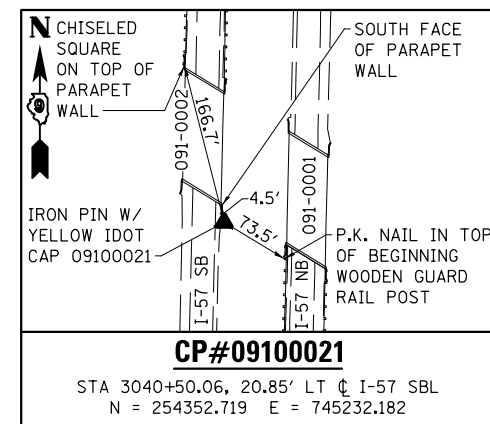
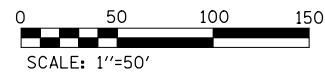
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ESCA PROJECT NO. 1259.08	DRAWN - SKM	REVISED -
PLOT SCALE = 0.1667' / 1"	CHECKED - ELH	REVISED -
PLOT DATE = 3/19/2018 12:57:13 PM	DATE - 03/18	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SCHEDULES OF QUANTITIES

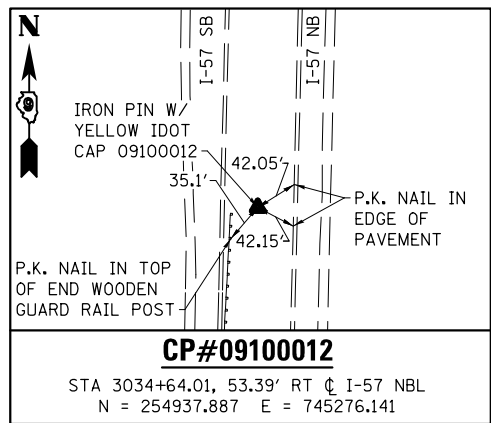
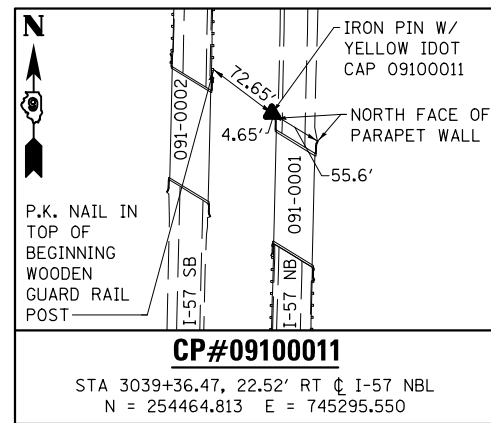
SCALE: NA SHEET NO. 4 OF 4 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	(91-4)B-1	UNION	160	21
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT			CONTRACT NO. 78522	



EX CURVE SHAKE1-2
 PI STA = 11+46.68
 $\Delta = 30^\circ 25' 19''$ (LT)
 D = 16° 16' 13"
 R = 352.15'
 T = 95.75'
 L = 186.98'
 E = 12.78'
 PC STA = 10+50.93
 PT STA = 12+37.91

EX CURVE SHAKE1-1
 PI STA = 4+72.51
 $\Delta = 25^\circ 20' 24''$ (RT)
 D = 11° 27' 33"
 R = 500.00'
 T = 112.40'
 L = 221.13'
 E = 12.48'
 PC STA = 3+60.10
 PT STA = 5+81.23



BENCHMARKS

- BM CY1 - "□" TOP OF WEST PARAPET WALL, NW CORNER OF SN 091-0002, NE CORNER OF APPROACH PARAPET, EL 423.17
- BM CY2 - "□" TOP OF EAST PARAPET WALL, NE CORNER OF SN 091-0001, NE CORNER OF APPROACH PARAPET, EL 422.96
- BM CY3 - "□" TOP SE CORNER OF HEADWALL OF 24" DIA. RCP, NORTH SIDE DITCH, NE QUAD OF SN 091-0001, EL 403.36
- BM CY4 - RAILROAD SPIKE IN NORTH SIDE OF POWER POLE, NW QUAD OF INTERSECTION OF SHAKE RAG ROAD AND EAST STREET, EL 425.98

PRINT DRIVER = L:\05-ESCA\1259\1259.dwg
 USER NAME = J.PLOT
 PLOT SCALE = 1/8"=1'-0"
 PLOT DATE = 3/19/2018



USER NAME = SKM
 ESCA PROJECT NO. 1259.08
 PLOT SCALE = 1/8" = 1'-0"
 PLOT DATE = 3/19/2018

DESIGNED - KAH
 DRAWN - KAH
 CHECKED - ELH
 DATE - 09/17

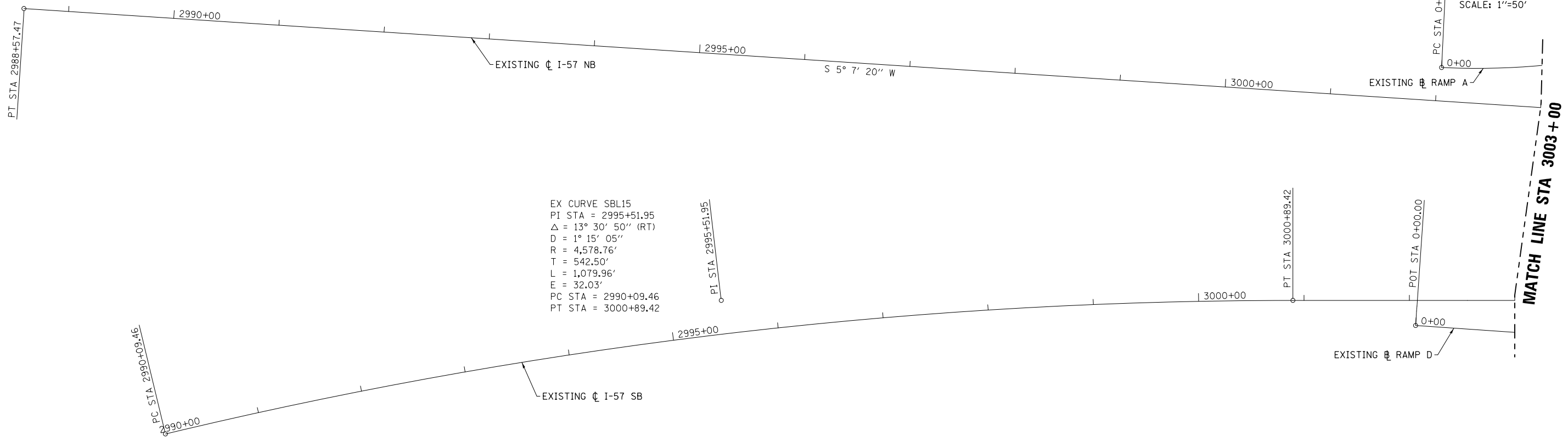
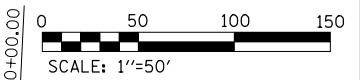
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**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

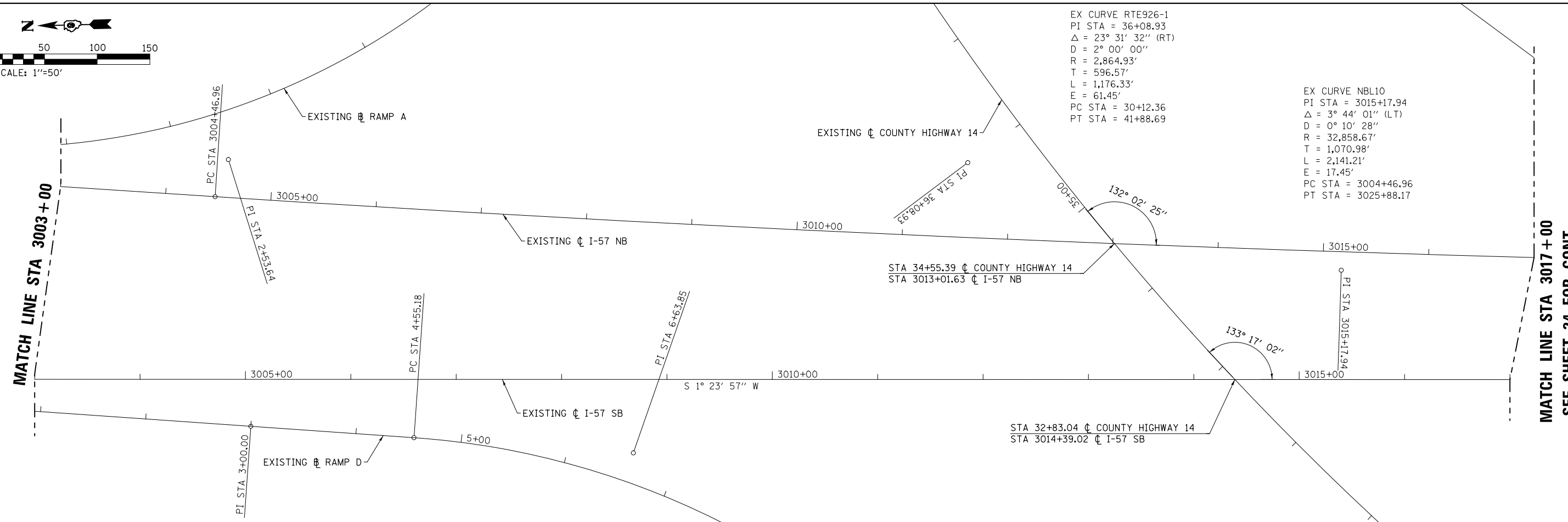
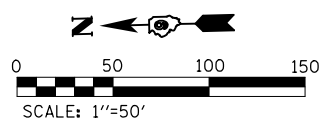
ALIGNMENT, TIES, AND BENCHMARKS

SCALE: 1"=50' SHEET NO. 1 OF 4 SHEETS STA. 1+69.50 TO STA. 14+57.85

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	(91-4)B-1	UNION	160	22
CONTRACT NO. 78522				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				



EX CURVE SBL15
 PI STA = 2995+51.95
 $\Delta = 13^\circ 30' 50''$ (RT)
 $D = 1^\circ 15' 05''$
 $R = 4,578.76'$
 $T = 542.50'$
 $L = 1,079.96'$
 $E = 32.03'$
 PC STA = 2990+09.46
 PT STA = 3000+89.42



EX CURVE RTE926-1
 PI STA = 36+08.93
 $\Delta = 23^\circ 31' 32''$ (RT)
 $D = 2^\circ 00' 00''$
 $R = 2,864.93'$
 $T = 596.57'$
 $L = 1,176.33'$
 $E = 61.45'$
 PC STA = 30+12.36
 PT STA = 41+88.69

EX CURVE NBL10
 PI STA = 3015+17.94
 $\Delta = 3^\circ 44' 01''$ (LT)
 $D = 0^\circ 10' 28''$
 $R = 32,858.67'$
 $T = 1,070.98'$
 $L = 2,141.21'$
 $E = 17.45'$
 PC STA = 3004+46.96
 PT STA = 3025+88.17

MATCH LINE STA 3017+00
 SEE SHEET 24 FOR CONT.

PRINT DRIVER = L:\05\B\B\1019
 ESCA PROJECT NO. 1259.08
 PLOT SCALE = 0.1667 / 1" = 50'
 PLOT DATE = 3/19/2018



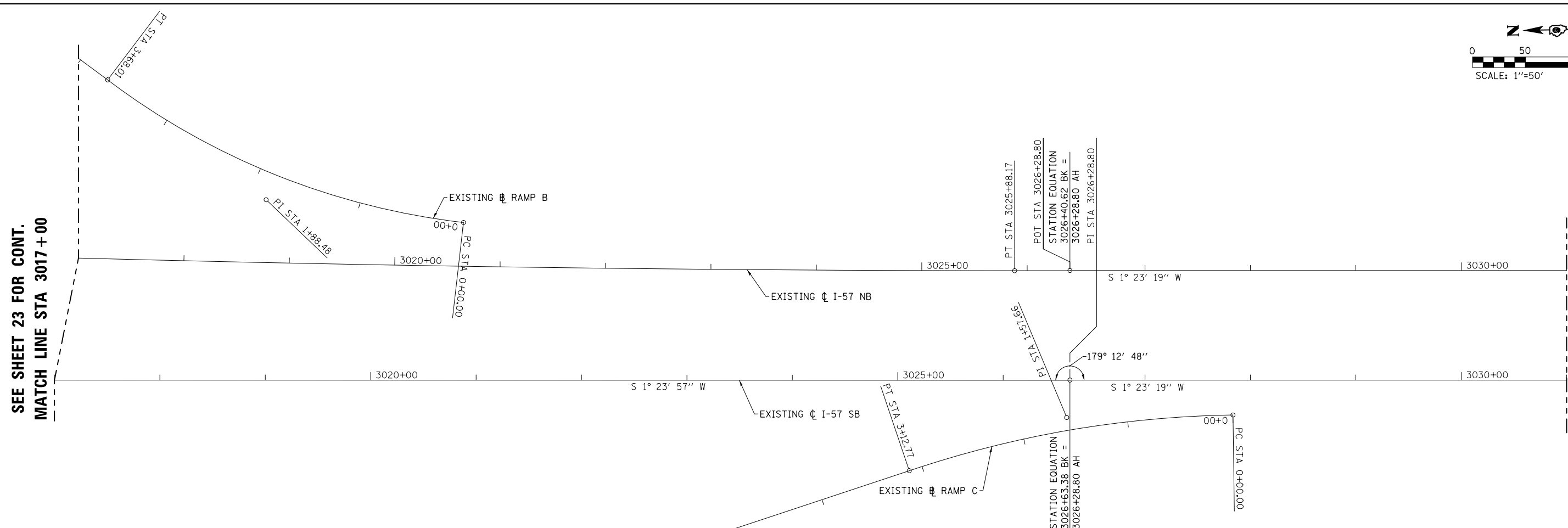
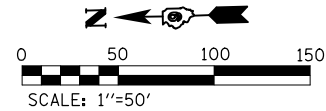
USER NAME = SKM	DESIGNED - KAH	REVISED -
ESCA PROJECT NO. 1259.08	DRAWN - KAH	REVISED -
PLOT SCALE = 0.1667 / 1" = 50'	CHECKED - ELH	REVISED -
PLOT DATE = 3/19/2018	DATE - 09/17	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

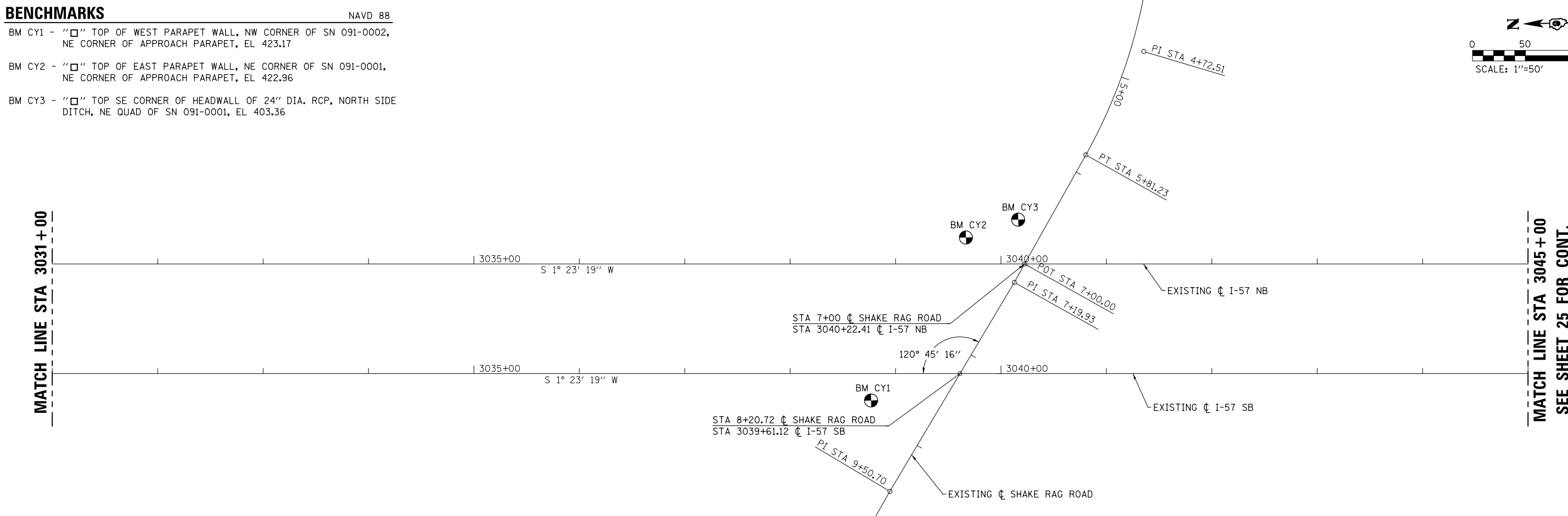
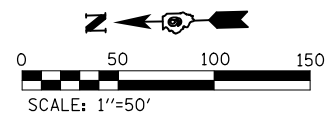
ALIGNMENT, TIES, AND BENCHMARKS

SCALE: 1"=50' SHEET NO. 2 OF 4 SHEETS STA. 2988+57.47 TO STA. 3017+00

F.A.I. RTE. = 57	SECTION = (91-4)B-1	COUNTY = UNION	TOTAL SHEETS = 160	SHEET NO. = 23
CONTRACT NO. 78522				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				



- BENCHMARKS** NAVD 88
- BM CY1 - "□" TOP OF WEST PARAPET WALL, NW CORNER OF SN 091-0002, NE CORNER OF APPROACH PARAPET, EL 423.17
 - BM CY2 - "□" TOP OF EAST PARAPET WALL, NE CORNER OF SN 091-0001, NE CORNER OF APPROACH PARAPET, EL 422.96
 - BM CY3 - "□" TOP SE CORNER OF HEADWALL OF 24" DIA. RCP, NORTH SIDE DITCH, NE QUAD OF SN 091-0001, EL 403.36



PRINT DRIVER = L:\05-EB\051519
 SCALE NAME = PLOT
 FILE NAME = 201202-11-11-11-11.dwg



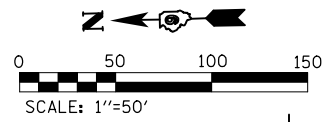
USER NAME = SKM	DESIGNED - KAH	REVISED -
ESCA PROJECT NO. 1259.08	DRAWN - KAH	REVISED -
PLOT SCALE = 0.1667' / 1"	CHECKED - ELH	REVISED -
PLOT DATE = 3/19/2018	DATE - 09/17	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ALIGNMENT, TIES, AND BENCHMARKS

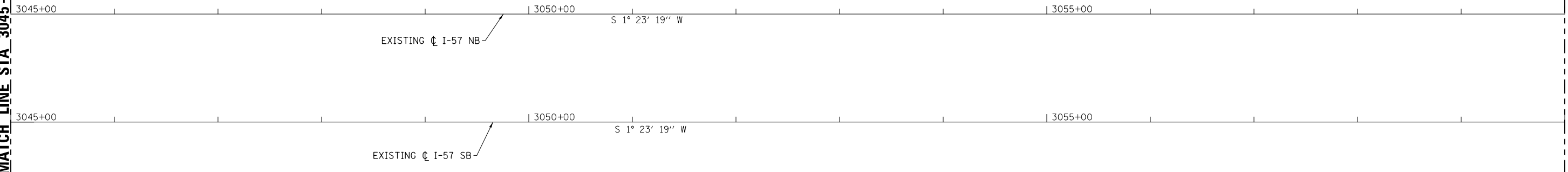
SCALE: 1"=50' SHEET NO. 3 OF 4 SHEETS STA. 3017+00 TO STA. 3045+00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	(91-4)B-1	UNION	160	24
CONTRACT NO. 78522				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

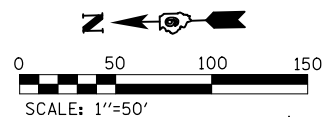


SEE SHEET 24 FOR CONT.

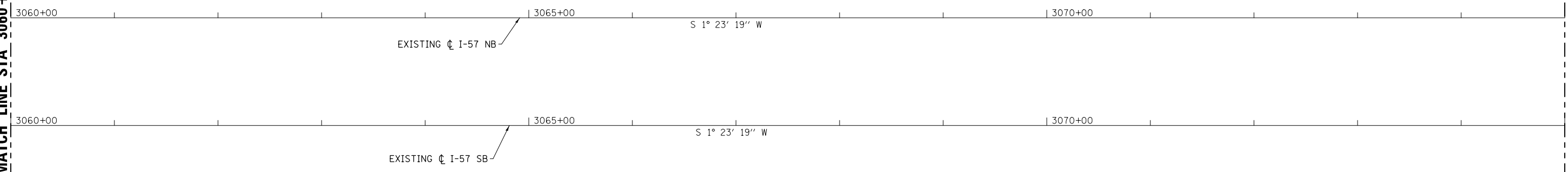
MATCH LINE STA 3045+00



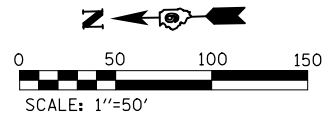
MATCH LINE STA 3060+00



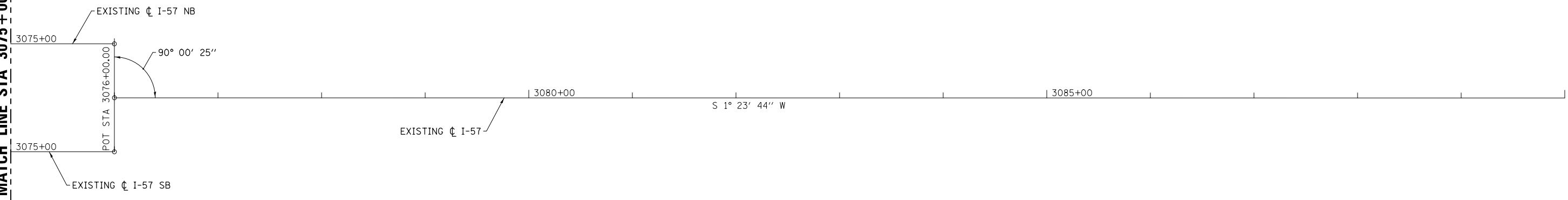
MATCH LINE STA 3060+00



MATCH LINE STA 3075+00



MATCH LINE STA 3075+00



PRINT DRIVER = L:\0-EB\B\1519
 SCALE NAME = PLOT
 FILE NAME = 010222-ent-align24.dgn



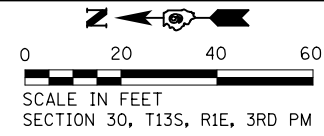
USER NAME = SKM	DESIGNED - KAH	REVISED -
ESCA PROJECT NO. 1259.08	DRAWN - KAH	REVISED -
PLOT SCALE = 0.1667' / 1"	CHECKED - ELH	REVISED -
PLOT DATE = 3/19/2018	DATE - 09/17	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

ALIGNMENT, TIES, AND BENCHMARKS

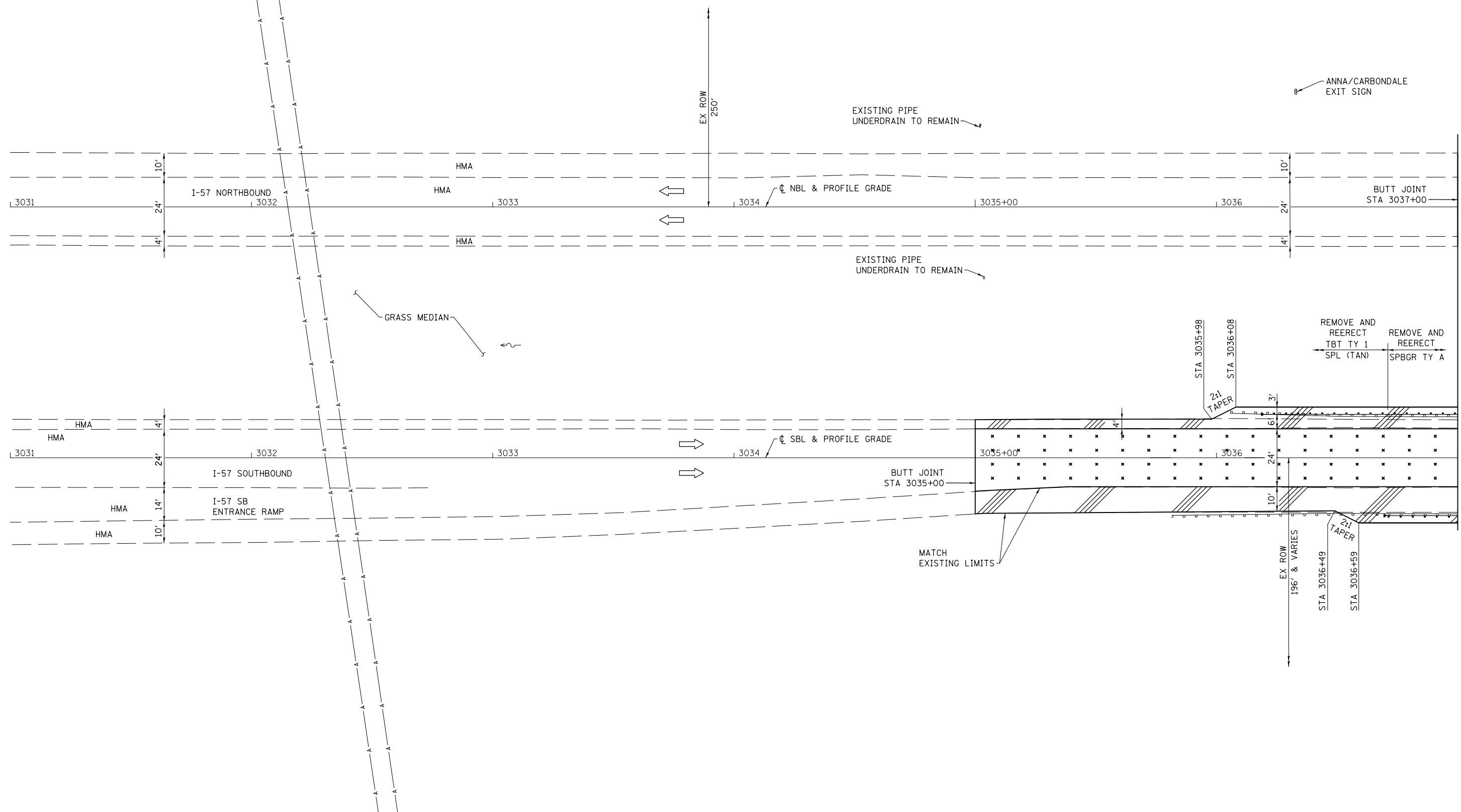
SCALE: 1"=50' SHEET NO. 4 OF 4 SHEETS STA. 3045+00 TO STA. 3090+00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	(91-4)B-1	UNION	160	25
CONTRACT NO. 78522				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				



LEGEND

	HMA SHOULDERS
	1/2" POLYMERIZED HMA SURFACE COURSE, MIX "D", N90



MATCH LINE STA 3037 + 00
SEE SHEET 27

PRINT DRIVER = L:\01\1259\1259.dwg
PLOT DATE = 3/19/2018
SCALE = 1"=20'



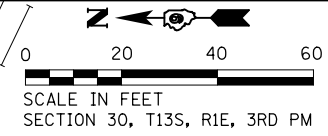
USER NAME = SKM	DESIGNED - KJA/SKM	REVISED -
ESCA PROJECT 1259.08	DRAWN - KJA/SKM	REVISED -
PLOT SCALE = 40.0000' / in.	CHECKED - ELH	REVISED -
PLOT DATE = 3/19/2018	DATE - 02/18	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

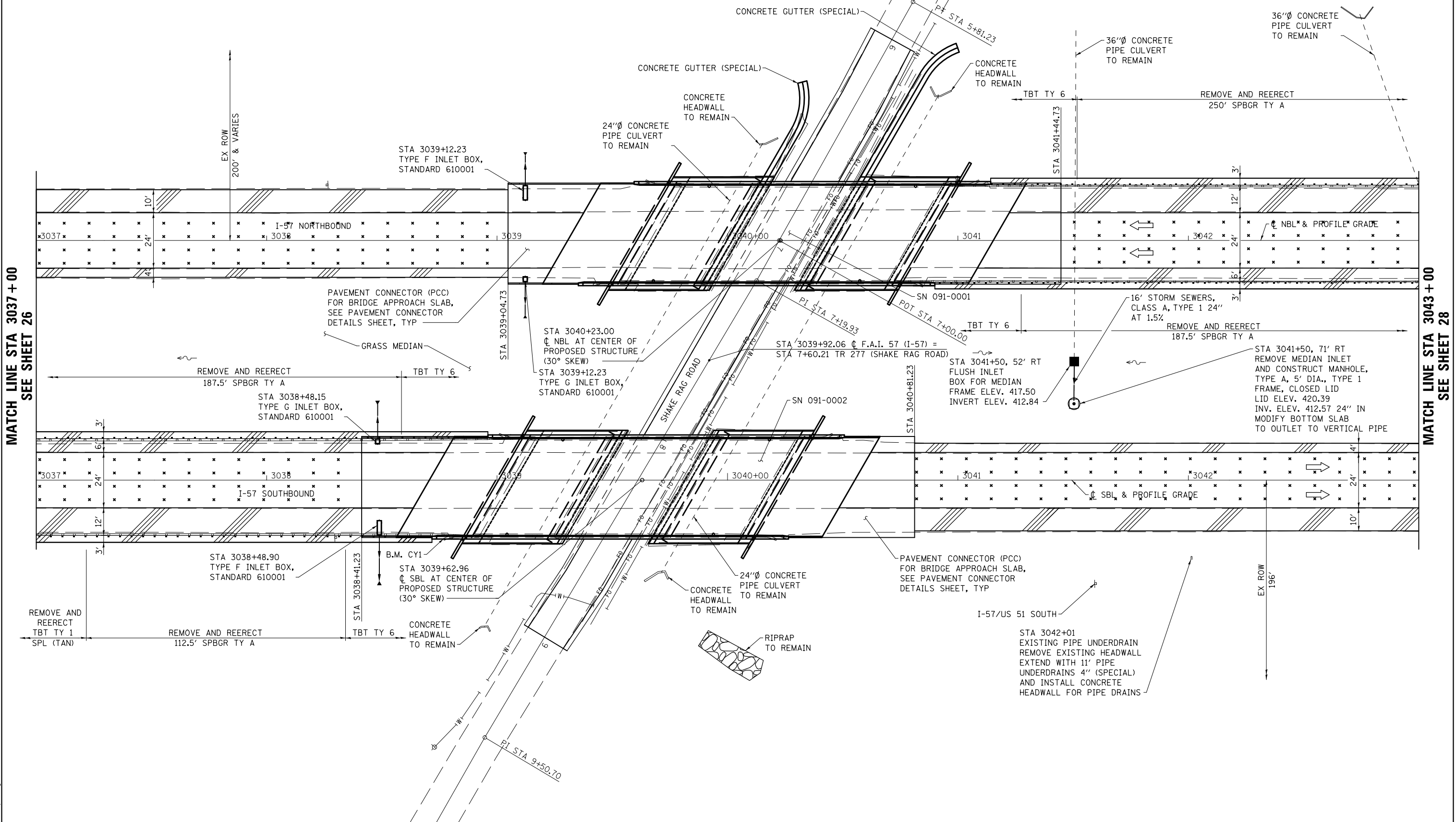
I-57 PLAN		
SCALE: 1"=20'	SHEET NO. 1 OF 3 SHEETS	STA. 3031+00 TO STA. 3037+00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	(91-4)B-1	UNION	160	26
CONTRACT NO. 78522			ILLINOIS FED. AID PROJECT	

B.M. CY1 ELEV. 423.17
 CHISELED SQUARE ON WEST PARAPET WALL,
 NW CORNER OF SN 091-0002, NE CORNER OF
 APPROACH PARAPET
 STA 3038+77, 77.5' RT.



LEGEND	
	HMA SHOULDERS
	1/2" POLYMERIZED HMA SURFACE COURSE, MIX "D", N90



MATCH LINE STA 3037+00
SEE SHEET 26

MATCH LINE STA 3043+00
SEE SHEET 28

PRINT DRIVER = L:\01\2018\1259\08\125908.dwg
 LAYOUT NAME = 125908.dwg
 PLOT DATE = 3/19/2018

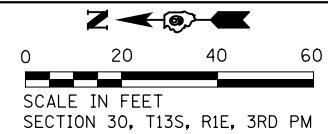


USER NAME = SKM	DESIGNED - KJA/SKM	REVISED -
ESCA PROJECT 1259.08	DRAWN - KJA/KAH/SKM	REVISED -
PLOT SCALE = 40.0000' / in.	CHECKED - ELH	REVISED -
PLOT DATE = 3/19/2018	DATE - 02/18	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

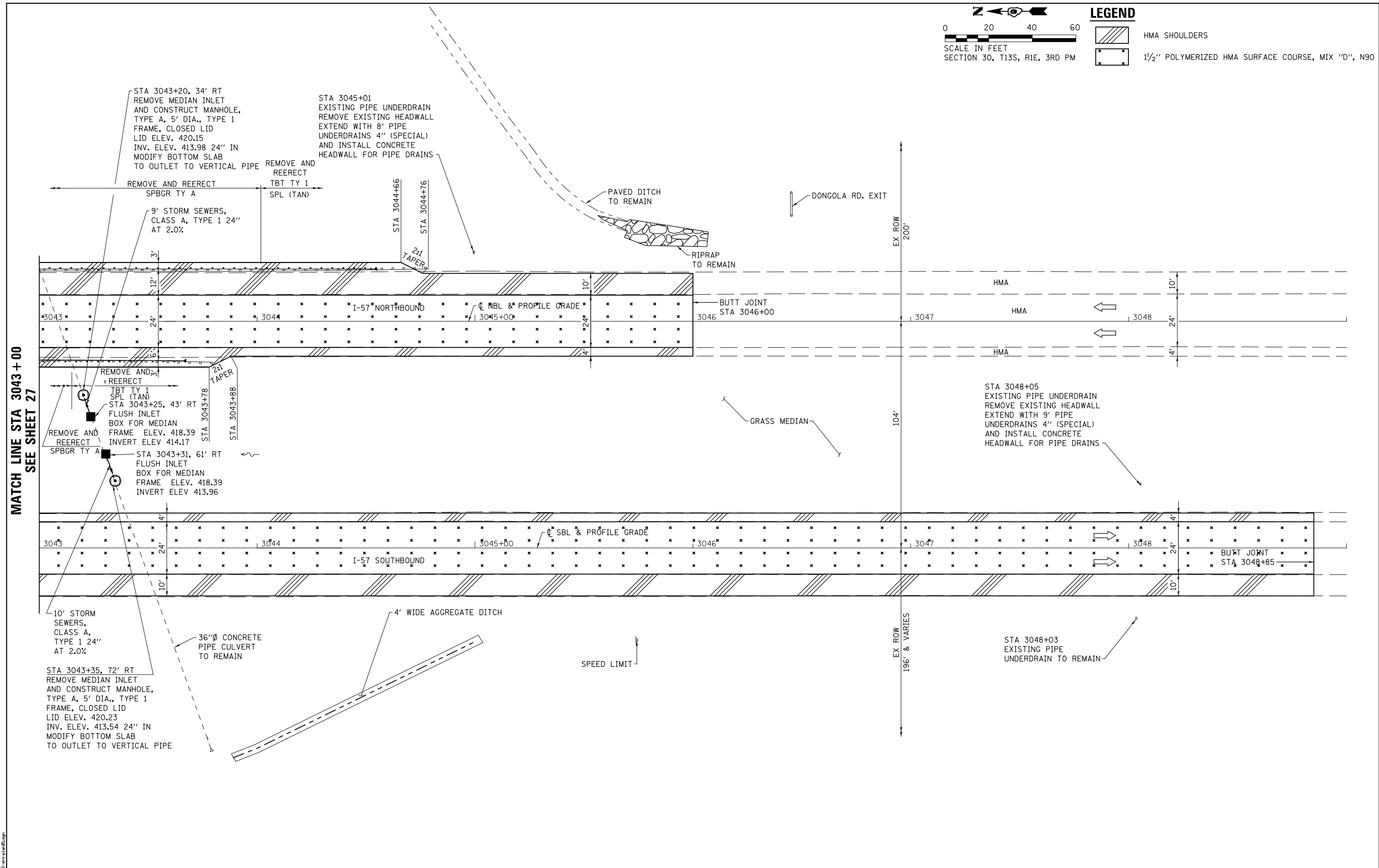
SCALE: 1"=20'		SHEET NO. 2 OF 3 SHEETS		STA. 3037+00 TO STA. 3043+00	
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F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	(91-4)B-1	UNION	160	27
CONTRACT NO. 78522				
ILLINOIS FED. AID PROJECT				



LEGEND

	HMA SHOULDERS
	1 1/2" POLYMERIZED HMA SURFACE COURSE, MIX "D", N90



MATCH LINE STA 3043+00
SEE SHEET 27

PRINT DRIVER = L:\01\2018\1259\1259.dwg
DATE = 3/19/2018
SCALE = 1"=20'



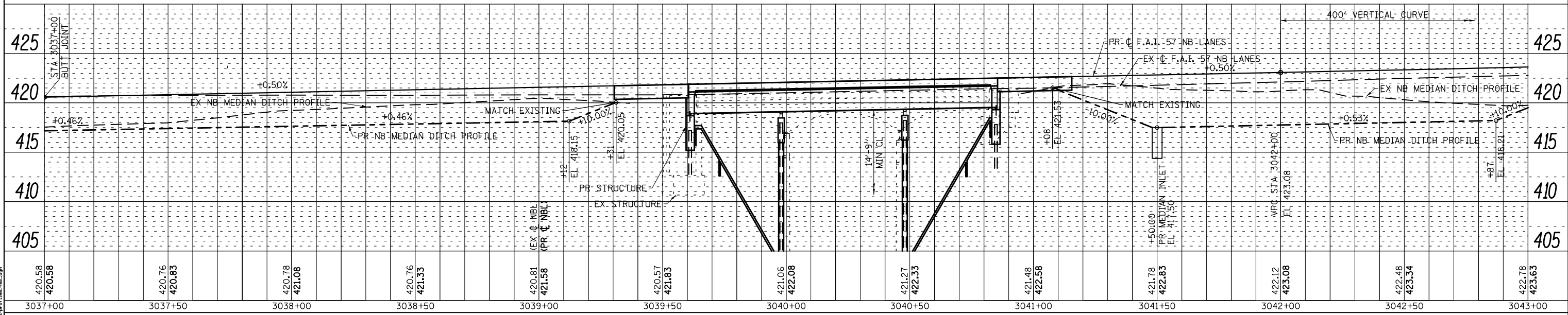
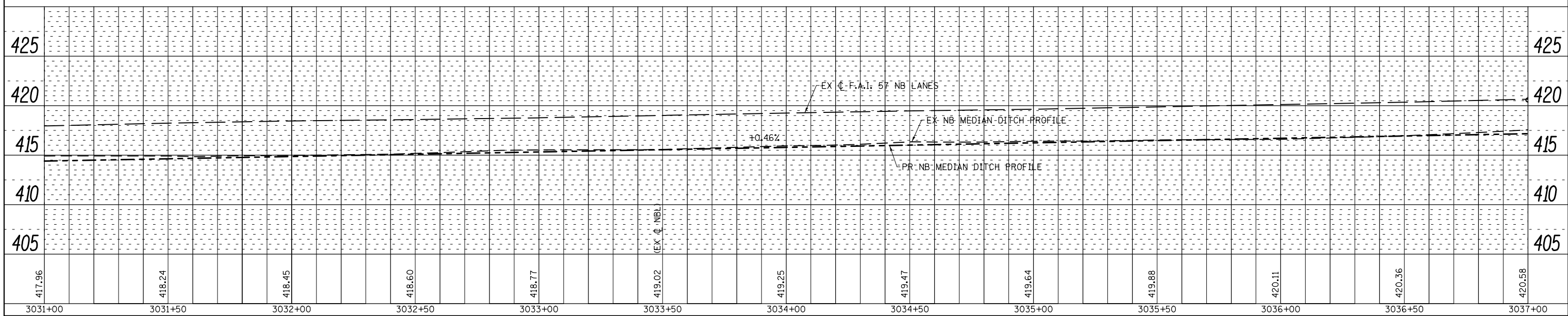
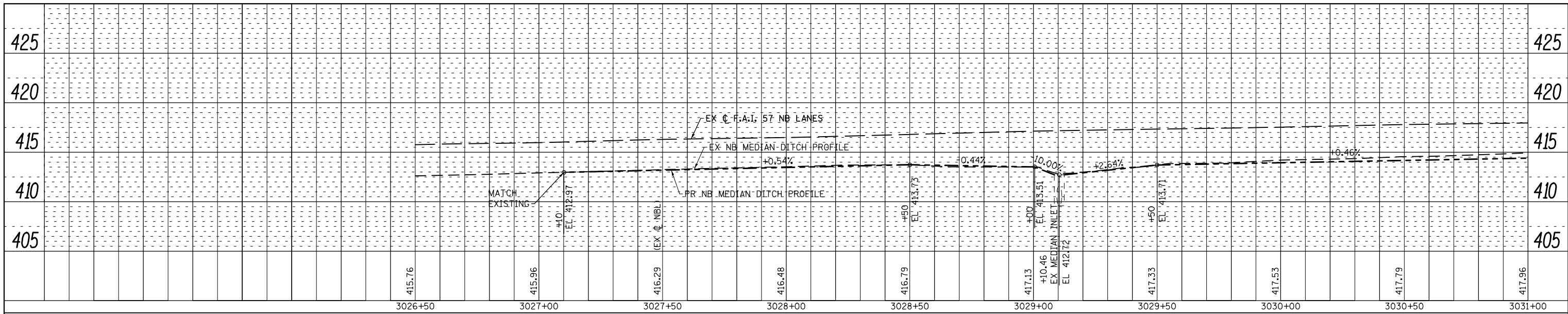
USER NAME = SKM	DESIGNED - KJA/SKM	REVISED -
ESCA PROJECT 1259.08	DRAWN - KJA/SKM	REVISED -
PLOT SCALE = 40.0000' / in.	CHECKED - ELH	REVISED -
PLOT DATE = 3/19/2018	DATE - 02/18	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

I-57 PLAN	
SCALE: 1"=20'	SHEET NO. 3 OF 3 SHEETS
STA. 3043+00	TO STA. 3049+00

F.A.I. RTE. 57	SECTION (91-4)B-1	COUNTY UNION	TOTAL SHEETS 160	SHEET NO. 28
CONTRACT NO. 78522				
ILLINOIS FED. AID PROJECT				

PROFILE	SUBMITTED	BY	DATE
NOTE BOOK	GRADES CHECKED		
NO.	STRUCTURE NOTATIONS CHK'D		



PRINT DRIVER = L:\D\1259\1259.dwg
 PLOT DATE = 3/19/2018
 PLOT SCALE = 48.0000' / 1"

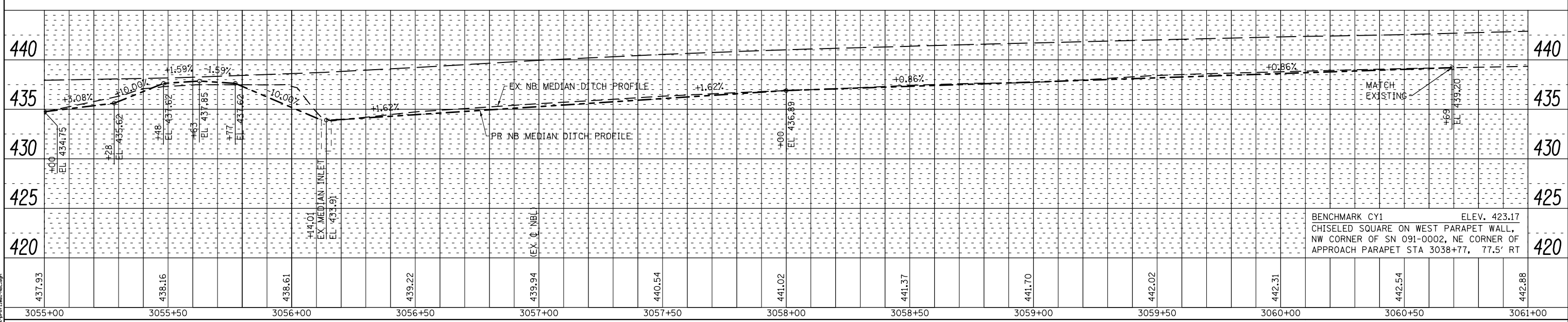
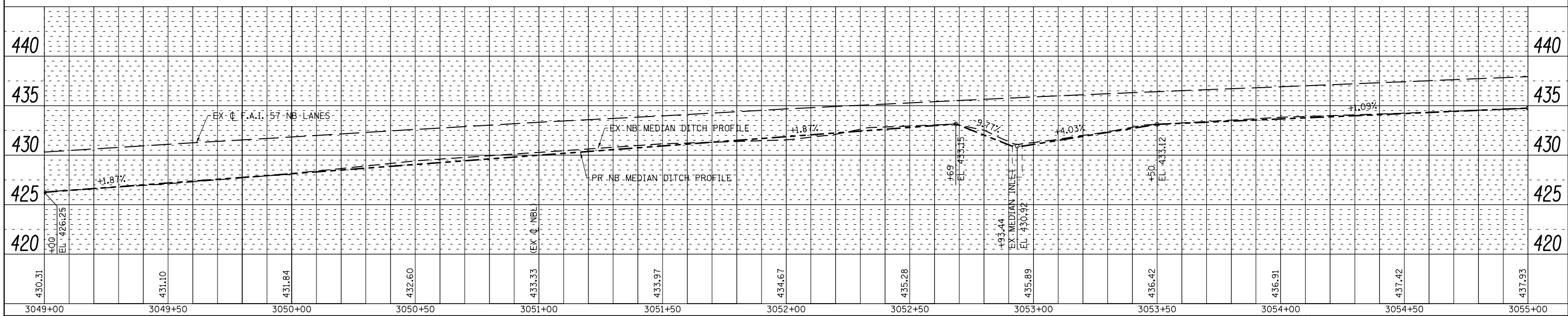
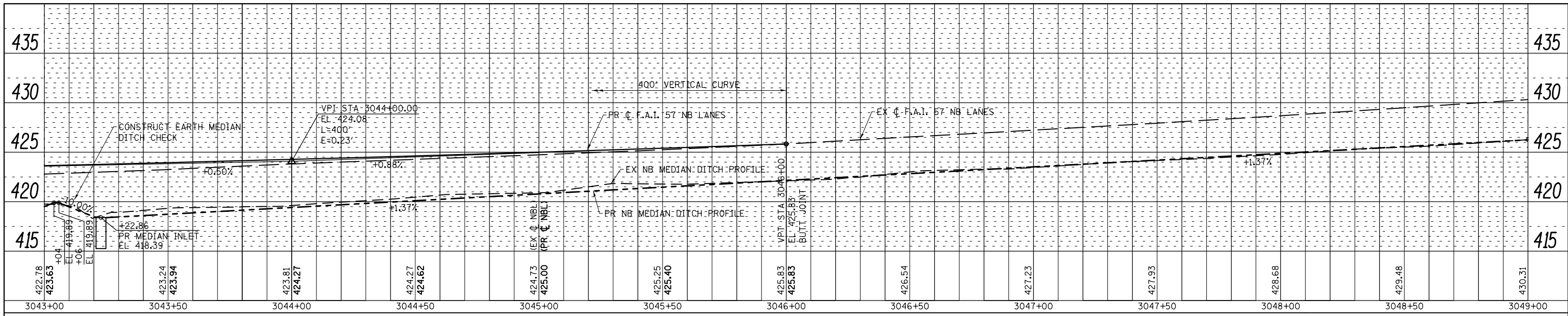


USER NAME = SKM	DESIGNED - KJA/SKM	REVISED -
ESCA PROJECT 1259.08	DRAWN - KJA/SKM	REVISED -
PLOT SCALE = 48.0000' / 1"	CHECKED - ELH	REVISED -
PLOT DATE = 3/19/2018	DATE - 12/17	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

I-57 NORTHBOUND PROFILE
 SCALE: AS SHOWN SHEET NO. 1 OF 2 SHEETS STA. 3026+50 TO STA. 3043+00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	(91-4B-1)	UNION	160	29
CONTRACT NO. 78522				
ILLINOIS FED. AID PROJECT				



PROFILE	SUBMITTED	DATE
NOTE BOOK	GRADES CHECKED	
NO.	STRUCTURE NOTATIONS CHK'D	

PRINT DRIVER = I:\D:\E\B\101619
 MODEL MAKE = D:\D\11\102161
 FILE NAME = D:\D\11\102161



USER NAME = SKM
 ESCA PROJECT 1259.08
 PLOT SCALE = 40.0000' / in.
 PLOT DATE = 3/19/2018

DESIGNED -	KJA/SKM	REVISED -	
DRAWN -	KJA/SKM	REVISED -	
CHECKED -	ELH	REVISED -	
DATE -	12/17	REVISED -	

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

I-57 NORTHBOUND PROFILE

SCALE: AS SHOWN SHEET NO. 2 OF 2 SHEETS STA. 3043+00 TO STA. 3061+00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	(91-4B-1)	UNION	160	30
CONTRACT NO. 78522				
ILLINOIS FED. AID PROJECT				

NB CROSSOVER
 BASELINE CURVE 1 DATA
 PI STA 12+10.32
 $\Delta = 12^\circ 38' 00''$
 $D = 3^\circ 00' 56''$
 $R = 1900.00'$
 $T = 210.32'$
 $L = 418.94'$
 $E = 11.61'$
 $S.E. = 0.02\%$

PC STA 10+00.00=I-57 STA 3026+68.90, 6.00' RT
 PCC STA 14+18.94=I-57 STA 3030+84.45, 52.00' RT
 LEFT E.O.P.

SB CROSSOVER
 BASELINE CURVE 4 DATA
 PI STA 36+29.26
 $\Delta = 12^\circ 38' 00''$
 $D = 3^\circ 00' 56''$
 $R = 1900.00'$
 $T = 210.32'$
 $L = 418.94'$
 $E = 11.61'$
 $S.E. = 0.02\%$

PCC STA 34+18.94=I-57 STA 3035+95.56, 52.00' RT
 PT STA 38+37.88=I-57 STA 3039+11.11, 6.00' RT

SB CROSSOVER
 BASELINE CURVE 3 DATA
 PI STA 32+10.32
 $\Delta = 12^\circ 38' 00''$
 $D = 3^\circ 00' 56''$
 $R = 1900.00'$
 $T = 210.32'$
 $L = 418.94'$
 $E = 11.61'$
 $S.E. = -0.02\%$

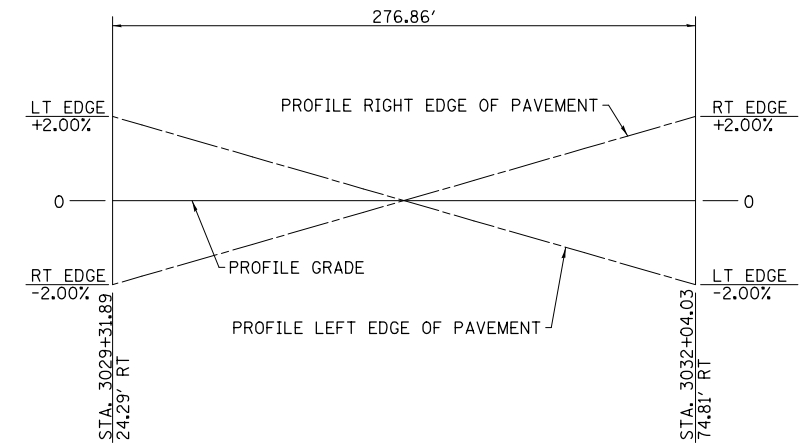
PC STA 30+00.00=I-57 STA 3030+80.00, 98.00' RT
 PCC STA 34+18.94=I-57 STA 3035+95.56, 52.00' RT

NB CROSSOVER
 BASELINE CURVE 2 DATA
 PI STA 16+29.26
 $\Delta = 12^\circ 38' 00''$
 $D = 3^\circ 00' 56''$
 $R = 1900.00'$
 $T = 210.32'$
 $L = 418.94'$
 $E = 11.61'$
 $S.E. = -0.02\%$

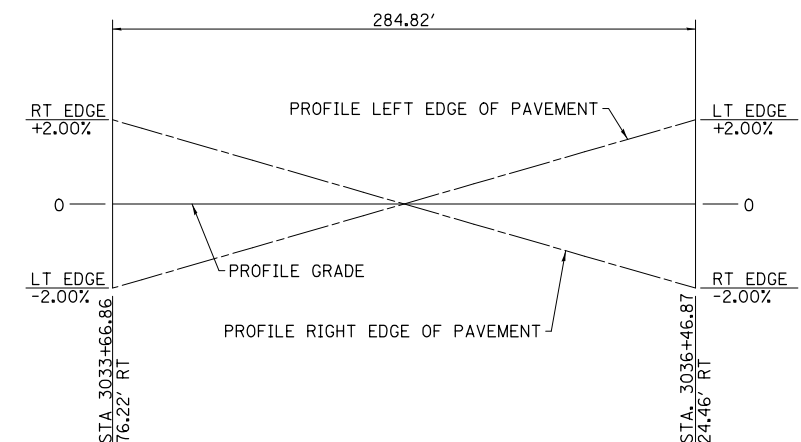
PCC STA 14+18.94=I-57 STA 3030+84.45, 52.00' RT
 PT STA 18+37.88=I-57 STA 3035+00.00, 98.00' RT

ELEVATION AND OFFSET DATA

CL NBL STATION	BASELINE #1		BASELINE #2		LEFT E.O.P.		RIGHT E.O.P. #2		LEFT E.O.P. #2		RIGHT E.O.P.					
	OFFSET (FT)	OFFSET (FT)	OFFSET (FT)	ELEVATION	OFFSET (FT)	ELEVATION	OFFSET (FT)	ELEVATION	OFFSET (FT)	ELEVATION	OFFSET (FT)	ELEVATION				
3026+68.90	6.00	RT	-	-	-	-	-	-	-	-	-	-				
3027+10.12	6.45	RT	-	-	16.45	RT	415.73	18.45	RT	415.68	-	-				
3027+63.51	8.36	RT	-	-	16.37	RT	416.00	18.37	RT	415.96	-	-				
3028+00.00	10.53	RT	-	-	16.32	RT	416.14	20.55	RT	416.05	-	-				
3028+50.00	14.65	RT	-	-	16.31	RT	416.40	24.70	RT	416.23	-	-				
3028+66.61	16.32	RT	-	-	16.32	RT	416.53	26.37	RT	416.32	-	-				
3029+00.00	20.11	RT	-	-	16.32	RT	416.77	30.18	RT	416.48	-	-				
3029+31.89	24.29	RT	-	-	16.21	RT	416.90	34.39	RT	416.52	-	-				
3029+50.00	26.91	RT	-	-	18.82	RT	416.94	37.02	RT	416.62	-	-				
3030+00.00	35.07	RT	-	-	26.95	RT	417.07	45.23	RT	416.89	-	-				
3030+50.00	44.61	RT	-	-	36.45	RT	417.20	54.82	RT	417.15	-	-				
3030+80.00	51.01	RT	98.00	RT	42.82	RT	417.29	61.25	RT	417.32	88.52	RT	417.53	92.52	RT	417.61
3030+84.45	52.00	RT	97.99	RT	43.80	RT	417.29	62.25	RT	417.33	88.48	RT	417.55	92.48	RT	417.63
3031+00.00	55.42	RT	97.89	RT	47.23	RT	417.33	65.65	RT	417.41	88.35	RT	417.61	92.35	RT	417.69
3031+63.13	67.90	RT	96.18	RT	59.77	RT	417.50	78.06	RT	417.76	88.17	RT	417.89	92.17	RT	417.97
3032+04.03	74.81	RT	93.95	RT	66.71	RT	417.60	84.93	RT	417.98	85.93	RT	418.00	92.16	RT	418.13
3032+28.27	78.47	RT	92.21	RT	70.38	RT	417.79	-	-	-	-	-	92.21	RT	418.24	
3032+50.00	81.48	RT	90.38	RT	73.41	RT	417.95	-	-	-	-	-	92.25	RT	418.34	
3032+90.00	86.36	RT	86.36	RT	78.31	RT	418.22	-	-	-	-	-	92.21	RT	418.51	
3033+49.15	92.00	RT	78.84	RT	70.76	RT	418.38	-	-	-	-	-	92.00	RT	418.82	
3033+66.86	93.33	RT	76.22	RT	68.13	RT	418.41	84.31	RT	418.75	85.31	RT	418.77	92.05	RT	418.91
3034+19.81	96.31	RT	67.37	RT	59.23	RT	418.71	75.50	RT	418.91	88.30	RT	419.06	92.38	RT	419.15
3034+50.00	97.34	RT	61.63	RT	53.47	RT	418.88	69.78	RT	419.01	88.23	RT	419.20	92.40	RT	419.28
3034+95.56	97.99	RT	52.00	RT	43.80	RT	419.14	60.20	RT	419.17	88.02	RT	418.40	92.04	RT	419.48
3035+00.00	98.00	RT	51.01	RT	42.82	RT	419.16	59.20	RT	419.18	88.00	RT	419.36	92.00	RT	419.50
3035+50.00	-	-	40.63	RT	32.48	RT	419.44	48.78	RT	419.34	-	-	-	-	-	-
3036+00.00	-	-	31.64	RT	23.53	RT	419.72	39.75	RT	419.50	-	-	-	-	-	-
3036+46.87	-	-	24.46	RT	16.39	RT	419.99	32.54	RT	419.65	-	-	-	-	-	-
3037+00.00	-	-	17.76	RT	16.30	RT	420.25	25.81	RT	420.05	-	-	-	-	-	-
3037+12.99	-	-	16.36	RT	16.36	RT	420.26	24.40	RT	420.09	-	-	-	-	-	-
3037+50.00	-	-	12.84	RT	16.63	RT	420.30	20.87	RT	420.21	-	-	-	-	-	-
3037+79.81	-	-	10.54	RT	16.56	RT	420.33	18.56	RT	420.29	-	-	-	-	-	-
3038+00.00	-	-	9.25	RT	16.47	RT	420.34	18.47	RT	420.30	-	-	-	-	-	-
3038+16.04	-	-	8.38	RT	16.39	RT	420.38	18.39	RT	420.34	-	-	-	-	-	-
3038+50.00	-	-	6.98	RT	-	-	-	-	-	-	-	-	-	-	-	-
3039+00.00	-	-	6.03	RT	-	-	-	-	-	-	-	-	-	-	-	-
3039+11.11	-	-	6.00	RT	-	-	-	-	-	-	-	-	-	-	-	-



**SUPERELEVATION TRANSITION DETAIL
 BASELINE #1**



**SUPERELEVATION TRANSITION DETAIL
 BASELINE #2**

NOTE:
 THE CONTRACTOR SHALL CONSTRUCT THIS MEDIAN CROSSOVER USING THE ELEVATION AND OFFSET DATA TABLE FOUND ON THIS SHEET. VALUES SHOWN ARE BASED ON THE ORIGINAL ROADWAY PLANS AND FIELD SURVEY. CONTRACTOR MAY MAKE MINOR ADJUSTMENTS IN THE FIELD AS APPROVED BY THE ENGINEER.

PRINT DRIVER = L:\0-EB\Bates\19
 SCALE NAME = 1:1000
 PLOT DATE = 3/19/2018



USER NAME = SKM
 ESCA PROJECT NO. 1259.08
 PLOT SCALE = 0.2" / 1' = 1/5" = 1/5" = 1/5"
 PLOT DATE = 3/19/2018 12:57:23 PM

DESIGNED - SKM
 DRAWN - SKM
 CHECKED - ELH
 DATE - 12/17

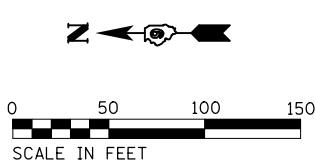
REVISED -
 REVISED -
 REVISED -
 REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

NORTH CROSSOVERS
 ELEVATIONS AND OFFSETS

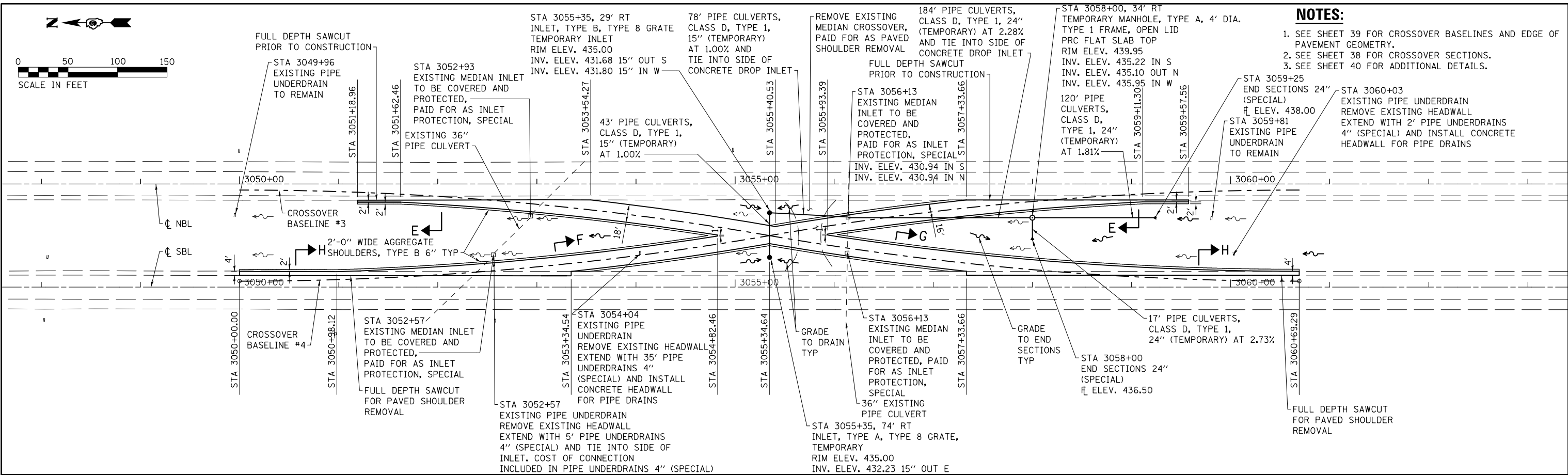
SCALE: 1"=50'-0" SHEET NO. 1 OF 1 SHEETS STA. 3026+00.00 TO STA. 3041+00.00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	(91-4)B-1	UNION	160	36
CONTRACT NO. 78522				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

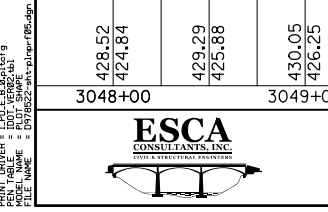
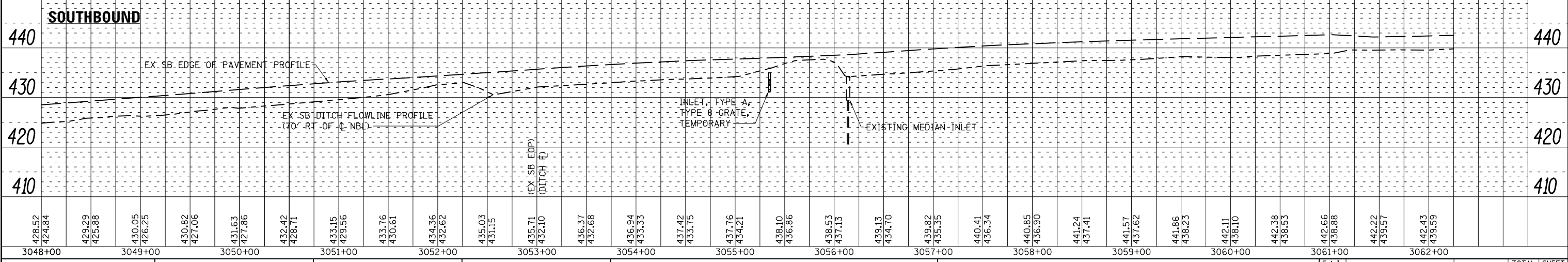
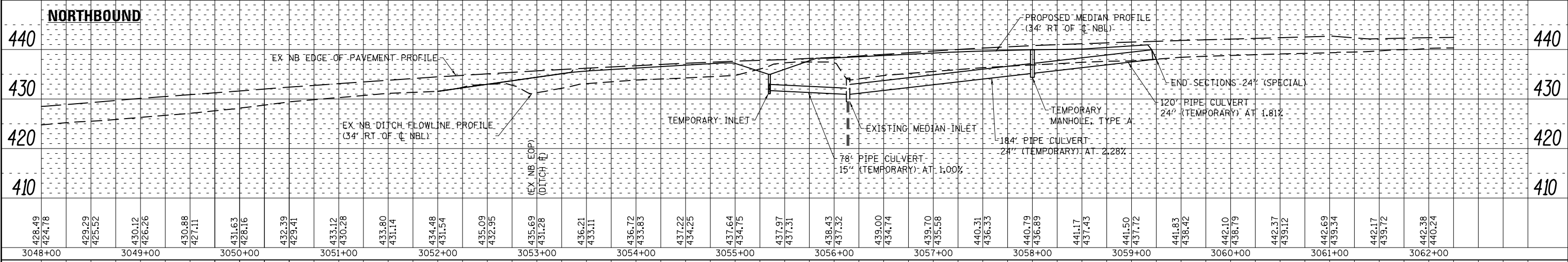


PLAN	SURVEYED	DATE
	PLOTTED	
	GRADES CHECKED	
	STRUCTURE NOTATIONS CHECKED	
	NOTE BOOK NO.	
	CARD FILE NAME	

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



- NOTES:**
1. SEE SHEET 39 FOR CROSSOVER BASELINES AND EDGE OF PAVEMENT GEOMETRY.
 2. SEE SHEET 38 FOR CROSSOVER SECTIONS.
 3. SEE SHEET 40 FOR ADDITIONAL DETAILS.

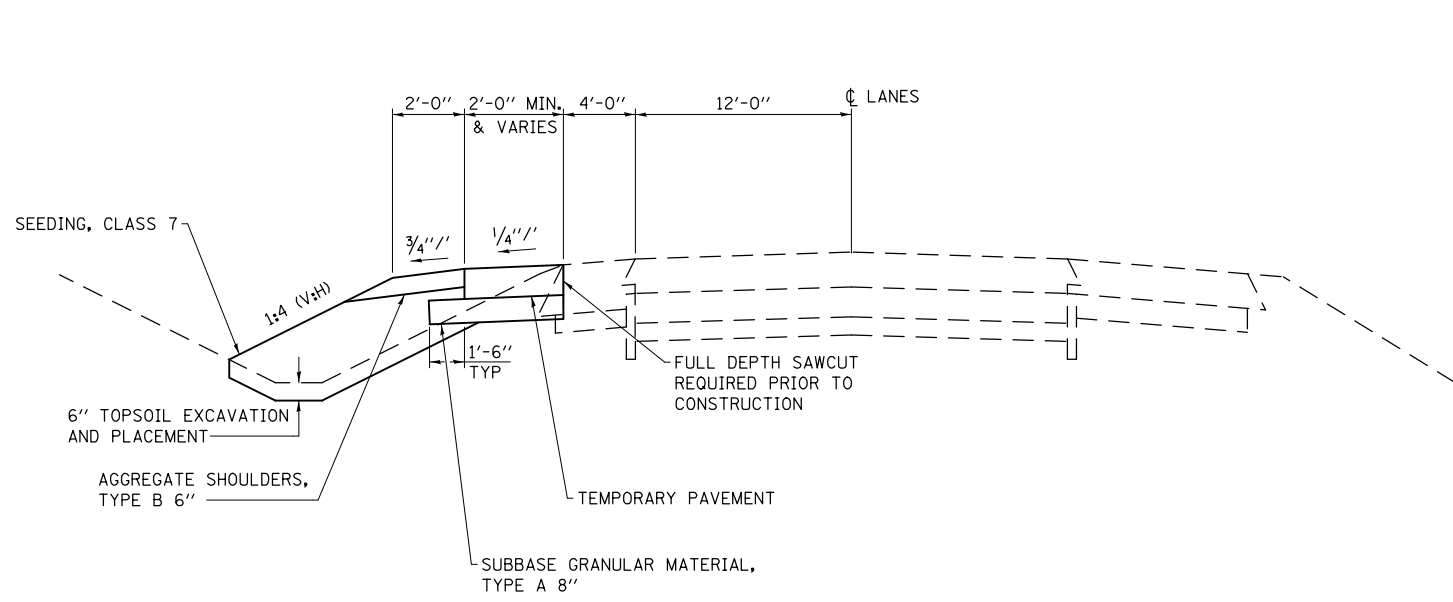


USER NAME = SKM	DESIGNED - SKM	REVISED -
ESCA PROJECT NO. 1259.08	DRAWN - SKM	REVISED -
SCALE: (HORIZ) 1"=50' (VERT) 1"=10'	CHECKED - ELH	REVISED -
PLOT DATE = 3/19/2018 12:57:24 PM	DATE - 03/18	REVISED -

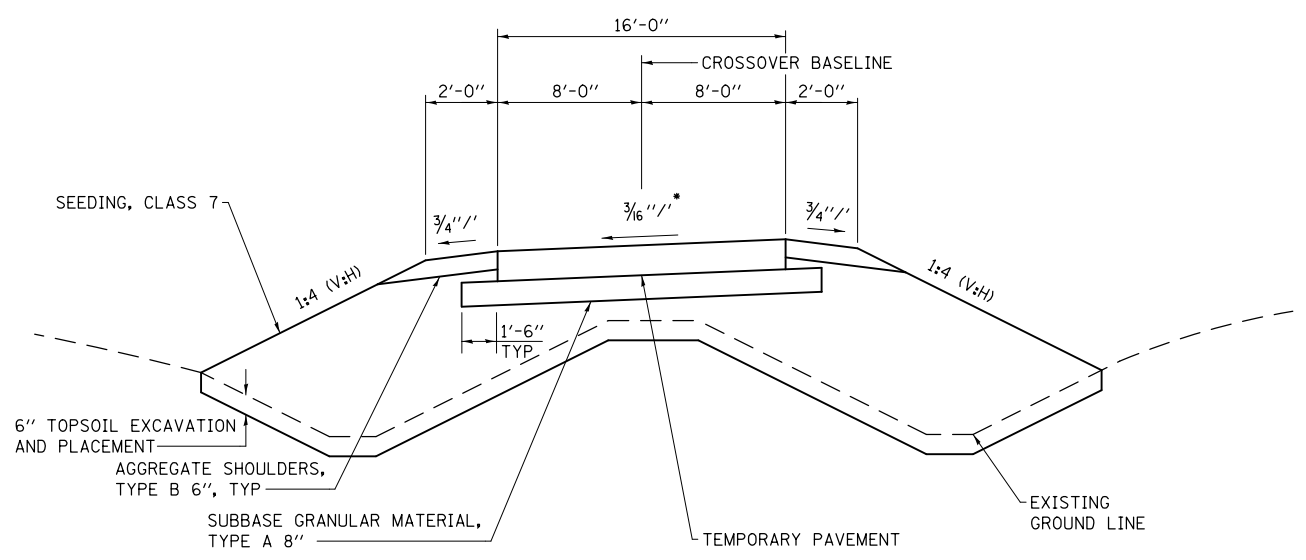
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

SOUTH CROSSOVERS PLAN AND PROFILE		
SCALE: AS SHOWN	SHEET NO. 1 OF 1 SHEETS	STA. 3048+00.00 TO STA. 3063+00.00

F.A.I. RTE. 57	SECTION (91-41B-1)	COUNTY UNION	TOTAL SHEETS 160	SHEET NO. 37
CONTRACT NO. 78522				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

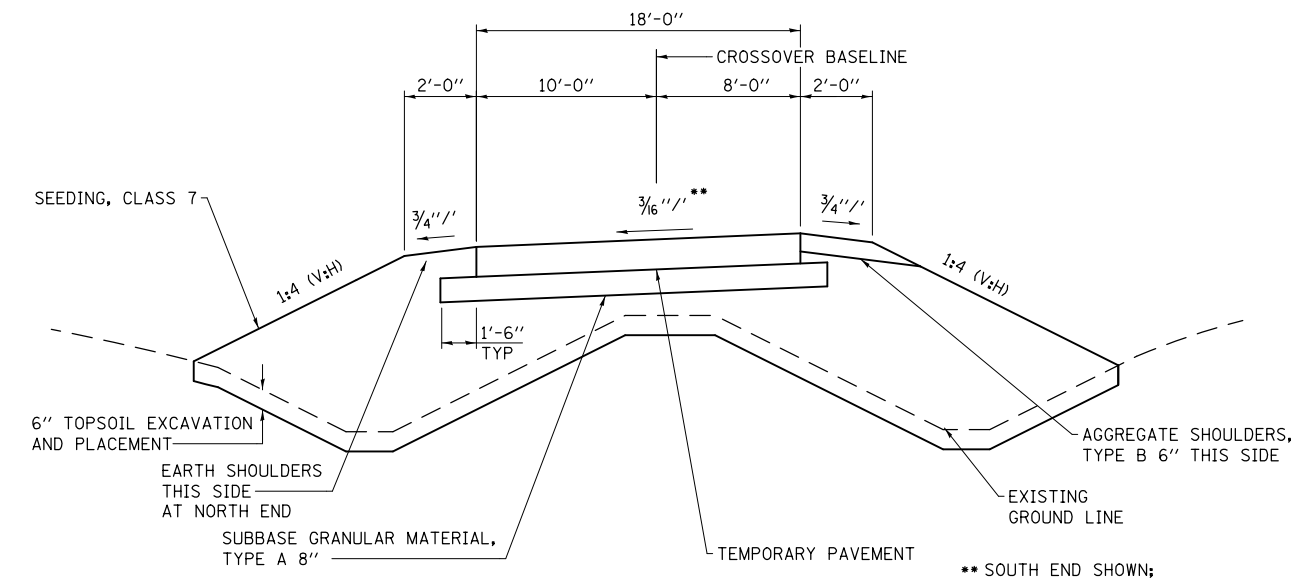


SOUTH CROSSOVERS SECTION E

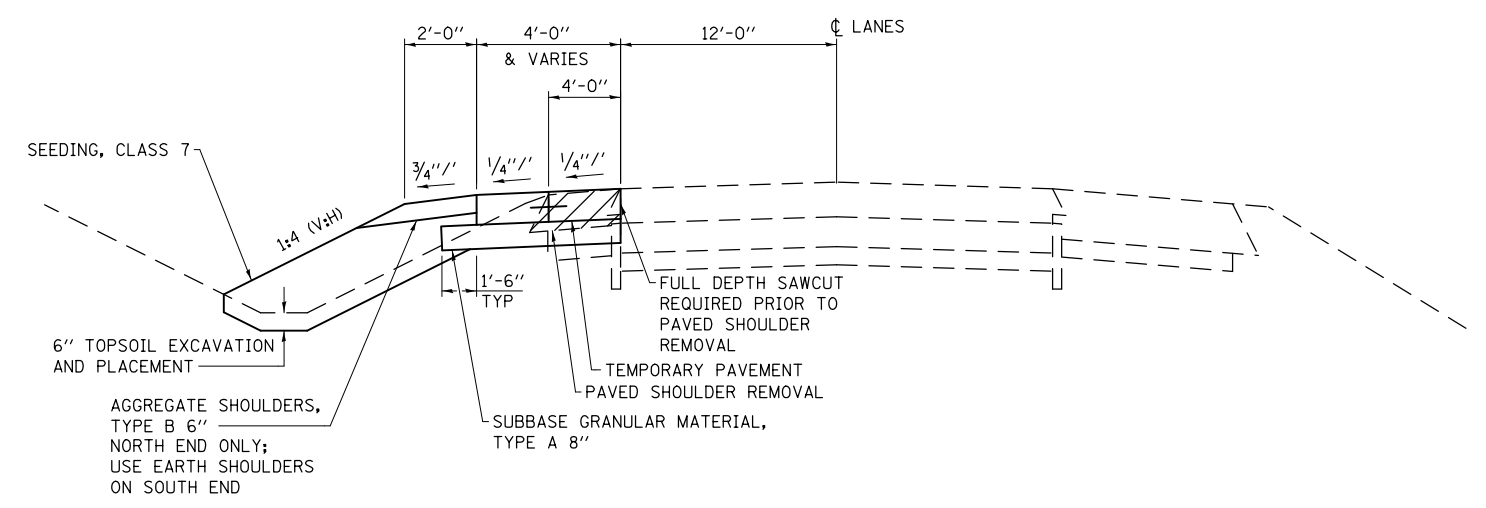


SOUTH CROSSOVERS SECTION F

NOTE: CONTRACTOR MAY CONSTRUCT
 10" JOINTED PCC PAVEMENT (SHOWN)
 OR 1 3/4" FULL DEPTH HMA
 PAVEMENT AS TEMPORARY
 PAVEMENT



SOUTH CROSSOVERS SECTION G



SOUTH CROSSOVERS SECTION H

PRINT DRIVER = L:\0-Substation\10-11-18\10-11-18.dwg
 PLOT DATE = 4/25/2018
 PLOT SCALE = 0.1667 / 1" = 1'-0"



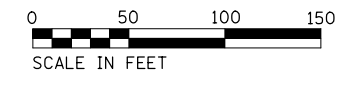
USER NAME = SKM	DESIGNED - SKM	REVISED -
ESCA PROJECT NO. 1259.08	DRAWN - SKM	REVISED -
PLOT SCALE = 0.1667 / 1" = 1'-0"	CHECKED - ELH	REVISED -
PLOT DATE = 4/25/2018	DATE - 04/18	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

SOUTH CROSSOVERS SECTIONS

SCALE: NONE SHEET NO. 1 OF 1 SHEETS STA. 3048+00.00 TO STA. 3063+00.00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	(91-4)B-1	UNION	160	38
CONTRACT NO. 78522				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				



SB CROSSOVER
 BASELINE CURVE 7 DATA
 PI STA 72+69.30
 $\Delta = 9^\circ 50' 06''$
 $D = 1^\circ 49' 50''$
 $R = 3130.00'$
 $T = 269.30'$
 $L = 537.28'$
 $E = 11.56'$
 S.E. = NONE
 PC STA 70+00.00=I-57 STA 3050+00.00, 6.00' RT
 PCC STA 75+37.28=I-57 STA 3055+34.64, 52.00' RT

NB CROSSOVER
 BASELINE CURVE 6 DATA
 PI STA 58+06.58
 $\Delta = 9^\circ 50' 06''$
 $D = 1^\circ 49' 50''$
 $R = 3130.00'$
 $T = 269.30'$
 $L = 537.28'$
 $E = 11.56'$
 S.E. = NONE
 PCC STA 55+37.28=I-57 STA 3055+34.64, 52.00' RT
 PT STA 60+74.56=I-57 STA 3060+69.29, 6.00' RT

NB CROSSOVER
 BASELINE CURVE 5 DATA
 PI STA 52+69.30
 $\Delta = 9^\circ 50' 06''$
 $D = 1^\circ 49' 50''$
 $R = 3130.00'$
 $T = 269.30'$
 $L = 537.28'$
 $E = 11.56'$
 S.E. = NONE
 PC STA 50+00.00=I-57 STA 3050+00.00, 98.00' RT
 PCC STA 55+37.28=I-57 STA 3055+34.64, 52.00' RT

SB CROSSOVER
 BASELINE CURVE 8 DATA
 PI STA 78+06.58
 $\Delta = 9^\circ 50' 06''$
 $D = 1^\circ 49' 50''$
 $R = 3130.00'$
 $T = 269.30'$
 $L = 537.28'$
 $E = 11.56'$
 S.E. = NONE
 PCC STA 75+37.28=I-57 STA 3055+34.64, 52.00' RT
 PT STA 80+74.56=I-57 STA 3060+69.29, 98.00' RT

ELEVATION AND OFFSET DATA

CL NBL STATION	BASELINE #3		BASELINE #4		LEFT E.O.P.		RIGHT E.O.P. #2		BREAK POINT		LEFT E.O.P. #2		RIGHT E.O.P.							
	OFFSET (FT)	RT	OFFSET (FT)	RT	OFFSET (FT)	ELEVATION	OFFSET (FT)	ELEVATION	OFFSET (FT)	ELEVATION	OFFSET (FT)	ELEVATION	OFFSET (FT)	ELEVATION						
3050+00.00	6.00	RT	98.00	RT	-	-	-	-	-	-	88.13	RT	431.46	92.13	RT	431.65				
3050+50.00	6.40	RT	97.60	RT	-	-	-	-	-	-	88.29	RT	432.37	92.29	RT	432.45				
3050+98.12	7.54	RT	96.46	RT	-	-	-	-	-	-	88.46	RT	433.08	92.46	RT	433.16				
3051+18.96	8.26	RT	95.74	RT	16.27	RT	433.15	18.27	RT	433.11	-	-	87.73	RT	433.29	92.48	RT	433.39		
3051+62.46	10.22	RT	93.78	RT	16.23	RT	433.70	18.23	RT	433.66	-	-	85.77	RT	433.78	92.47	RT	433.92		
3051+86.03	11.53	RT	92.47	RT	16.21	RT	434.00	19.55	RT	433.93	-	-	84.45	RT	434.03	92.47	RT	434.2		
3052+00.00	12.40	RT	91.60	RT	16.20	RT	434.18	20.41	RT	434.09	-	-	83.59	RT	434.19	92.47	RT	434.37		
3052+51.04	16.08	RT	87.92	RT	16.08	RT	434.84	24.11	RT	434.67	-	-	79.89	RT	434.80	92.52	RT	435.06		
3053+00.00	20.41	RT	83.59	RT	15.96	RT	435.44	28.45	RT	435.18	-	-	75.55	RT	435.38	92.57	RT	435.73		
3053+34.54	23.93	RT	80.07	RT	16.00	RT	435.85	31.98	RT	435.52	-	-	72.02	RT	435.68	92.58	RT	436.16		
3053+34.54	23.93	RT	80.07	RT	16.00	RT	435.85	31.98	RT	435.52	-	-	72.02	RT	435.68	92.58	RT	436.16		
3053+54.27	26.11	RT	77.89	RT	16.05	RT	436.07	34.17	RT	435.69	-	-	69.83	RT	435.94	85.94	RT	436.20		
3054+00.00	31.66	RT	72.34	RT	21.58	RT	436.50	39.73	RT	436.21	-	-	64.27	RT	436.35	80.40	RT	436.61		
3054+50.00	38.52	RT	65.48	RT	28.41	RT	437.03	46.60	RT	436.74	-	-	57.40	RT	436.84	73.57	RT	437.10		
3054+82.46	43.41	RT	60.59	RT	33.29	RT	437.27	51.50	RT	437.16	52.00	RT	437.16	52.50	RT	437.17	68.69	RT	437.41	
3055+00.00	46.19	RT	57.81	RT	36.06	RT	437.41	-	-	52.00	RT	437.33	-	-	65.91	RT	437.55	-	-	
3055+34.64	52.00	RT	52.00	RT	41.85	RT	437.83	-	-	52.00	RT	437.67	-	-	60.12	RT	437.80	-	-	
3055+40.53	53.02	RT	50.99	RT	42.87	RT	437.87	-	-	51.90	RT	437.73	-	-	61.13	RT	437.87	-	-	
3055+93.39	61.61	RT	42.39	RT	34.30	RT	438.50	50.49	RT	438.26	50.99	RT	438.25	51.49	RT	438.26	69.70	RT	438.48	
3056+50.00	69.79	RT	34.21	RT	26.14	RT	439.06	42.28	RT	438.80	-	-	59.70	RT	438.81	77.86	RT	439.10	-	-
3057+00.00	76.14	RT	27.86	RT	19.81	RT	439.55	35.92	RT	439.29	-	-	66.07	RT	439.34	84.19	RT	439.63	-	-
3057+33.66	79.95	RT	24.05	RT	16.00	RT	439.92	32.09	RT	439.58	-	-	69.90	RT	439.64	88.00	RT	440.02	-	-
3057+33.66	79.95	RT	24.05	RT	16.00	RT	439.92	32.09	RT	439.58	-	-	69.90	RT	439.64	88.00	RT	440.02	-	-
3057+50.00	81.67	RT	22.33	RT	16.00	RT	440.13	30.37	RT	439.83	-	-	71.62	RT	440.00	92.00	RT	440.42	-	-
3058+00.00	86.39	RT	17.61	RT	16.00	RT	440.61	25.64	RT	440.41	-	-	76.36	RT	440.53	92.00	RT	440.86	-	-
3058+19.29	88.00	RT	16.00	RT	16.00	RT	440.75	24.03	RT	440.58	-	-	77.97	RT	440.72	92.00	RT	441.01	-	-
3058+50.00	90.31	RT	13.69	RT	16.00	RT	440.97	21.71	RT	440.85	-	-	80.28	RT	441.01	92.00	RT	441.25	-	-
3058+75.58	92.00	RT	12.00	RT	16.00	RT	441.14	20.02	RT	441.06	-	-	81.98	RT	441.20	92.00	RT	441.41	-	-
3059+11.30	94.01	RT	9.99	RT	16.00	RT	441.38	18.00	RT	441.34	-	-	84.00	RT	441.47	92.00	RT	441.64	-	-
3059+57.56	96.01	RT	7.99	RT	16.00	RT	441.66	18.00	RT	441.62	-	-	86.00	RT	441.77	92.00	RT	441.90	-	-
3060+00.00	97.23	RT	6.77	RT	-	-	-	-	-	-	-	-	87.23	RT	442.02	92.00	RT	442.12	-	-
3060+50.00	97.94	RT	6.06	RT	-	-	-	-	-	-	-	-	87.94	RT	442.30	92.00	RT	442.38	-	-
3060+69.29	98.00	RT	6.00	RT	-	-	-	-	-	-	-	-	88.00	RT	442.34	92.00	RT	442.48	-	-

NOTE:
 THE CONTRACTOR SHALL CONSTRUCT THIS MEDIAN CROSSOVER USING THE ELEVATION AND OFFSET DATA TABLE FOUND ON THIS SHEET. VALUES SHOWN ARE BASED ON THE ORIGINAL ROADWAY PLANS AND FIELD SURVEY. CONTRACTOR MAY MAKE MINOR ADJUSTMENTS IN THE FIELD AS APPROVED BY THE ENGINEER.

PRINT DRIVER = L:\05-ESB\10179
 SCALE NAME = 1:1000
 PLOT DATE = 3/19/2018 12:57:25 PM



USER NAME = SKM
 ESCA PROJECT NO. 1259.08
 PLOT SCALE = 0.2" = 1' / in.
 PLOT DATE = 3/19/2018 12:57:25 PM

DESIGNED - SKM
 DRAWN - SKM
 CHECKED - ELH
 DATE - 12/17

REVISED -
 REVISED -
 REVISED -
 REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

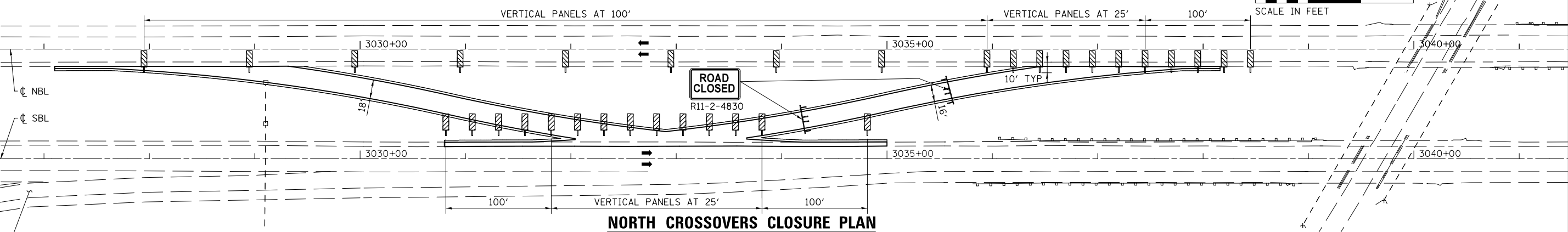
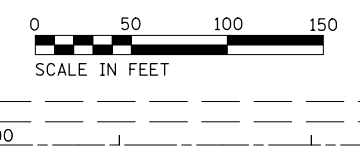
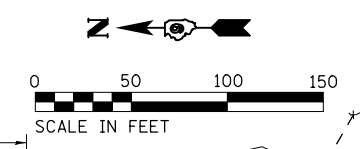
**SOUTH CROSSOVERS
 ELEVATIONS AND OFFSETS**

SCALE: 1"=50'-0" SHEET NO. 1 OF 1 SHEETS STA. 3048+00.00 TO STA. 3063+00.00

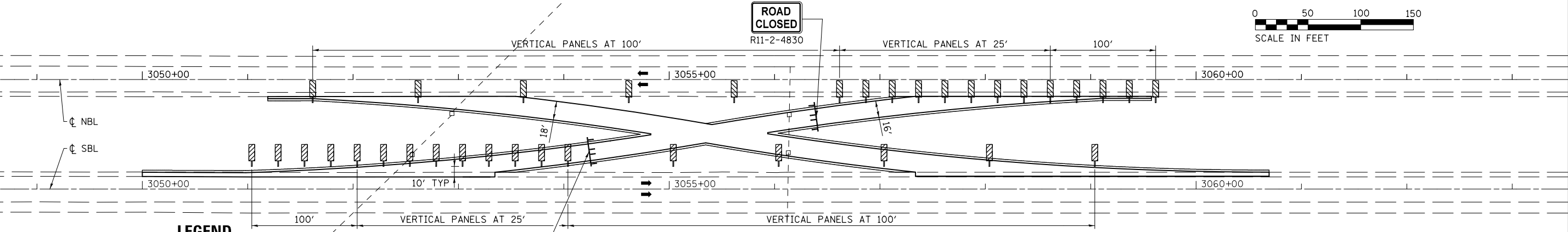
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	(91-4)B-1	UNION	160	39
CONTRACT NO. 78522				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

STATION EQUATION
3026+40.62 BK =
3026+28.80 AH

STATION EQUATION
3026+63.38 BK =
3026+28.80 AH

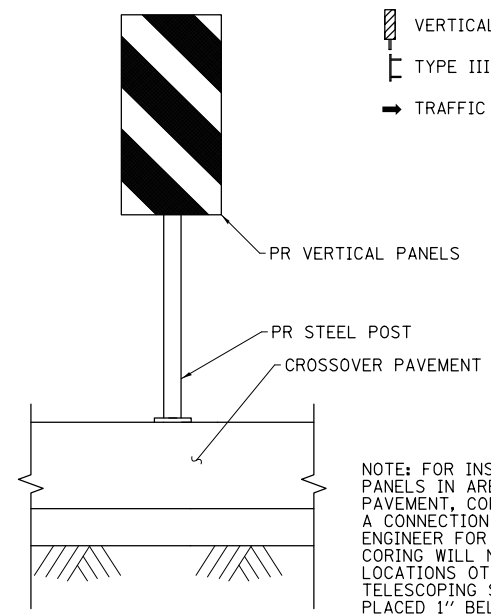


NORTH CROSSOVERS CLOSURE PLAN



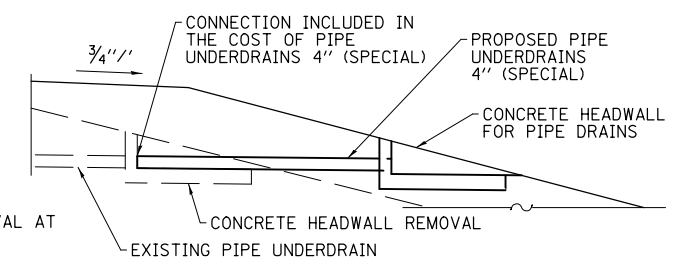
SOUTH CROSSOVERS CLOSURE PLAN

- LEGEND**
- VERTICAL SIGN PANEL
 - TYPE III BARRICADE
 - TRAFFIC FLOW ARROW



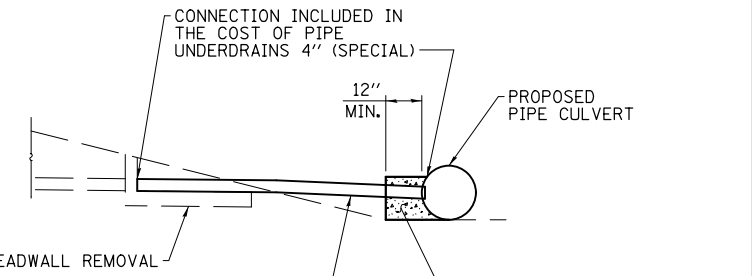
NOTE: FOR INSTALLATION OF VERTICAL PANELS IN AREAS OF CROSSOVER PAVEMENT, CONTRACTOR SHALL SUBMIT A CONNECTION DETAIL TO THE ENGINEER FOR APPROVAL. PAVEMENT CORING WILL NOT BE ALLOWED. AT LOCATIONS OTHER THAN PAVEMENT, TELESCOPING STEEL POLES WILL BE PLACED 1" BELOW SURFACE, AND WORK SHALL BE DONE TO THE SATISFACTION OF THE ENGINEER. WHEN OPENING CROSSOVER, PANELS WILL BE REMOVED. COST OF PANELS, POSTS, SLEEVES, POST CONNECTION, TYPE III BARRICADES AND SIGNS SHALL BE INCLUDED IN TRAFFIC CONTROL AND PROTECTION, (SPECIAL).

CROSSOVER CLOSURE SCHEDULE				
LOCATION	VERTICAL SIGN PANELS	TELESCOPING STEEL SIGN SUPPORTS	TYPE III BARRICADES	SIGN PANEL, TYPE 2
NORTH CROSSOVERS	33	33	4	20
SOUTH CROSSOVERS	36	36	4	20
TOTALS	69	69	8	40



NOTE: DURING CROSSOVERS REMOVAL AT UNDERDRAIN EXTENSIONS, THE PROPOSED PIPE UNDERDRAIN 4" (SPECIAL) EXTENSION SHALL BE REMOVED. THE CONCRETE HEADWALL FOR PIPE DRAINS SHALL BE REINSTALLED AT THE ORIGINAL END OF THE UNDERDRAIN. THIS WORK WILL BE PAID FOR AS REMOVE AND REINSTALL CONCRETE HEADWALL FOR PIPE DRAIN.

UNDERDRAIN EXTENSION AT CROSSOVERS



NOTE: DURING CROSSOVERS REMOVAL AT UNDERDRAIN CULVERT CONNECTIONS, THE PROPOSED PIPE UNDERDRAIN 4" (SPECIAL) SHALL BE REMOVED. A NEW CONCRETE HEADWALL FOR PIPE DRAINS SHALL BE REINSTALLED AT THE ORIGINAL END OF THE UNDERDRAIN. THIS WORK WILL BE PAID FOR AS CONCRETE HEADWALLS FOR PIPE DRAINS.

UNDERDRAIN CONNECTION TO MEDIAN CULVERT

PRINT DRIVER = LUD-EB@state.gov
 USER NAME = LUD-EB@state.gov
 PLOT DATE = 3/19/2018 12:57:26 PM



USER NAME = SKM
 ESCA PROJECT NO. 1259.08
 PLOT SCALE = 0.2" = 1' / in.
 PLOT DATE = 3/19/2018 12:57:26 PM

DESIGNED - SKM
 DRAWN - SKM
 CHECKED - ELH
 DATE - 02/18

REVISED -
 REVISED -
 REVISED -
 REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CROSSOVERS DETAILS
 SCALE: AS SHOWN SHEET NO. 1 OF 1 SHEETS STA. 3026+00.00 TO STA. 3063+00.00

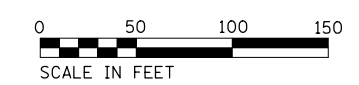
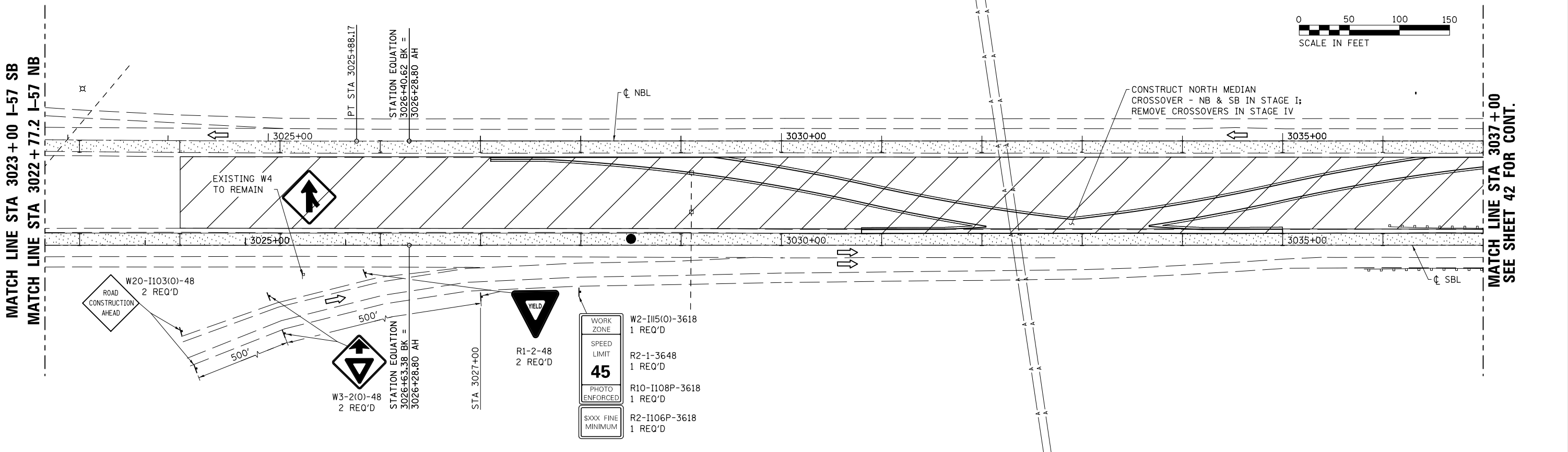
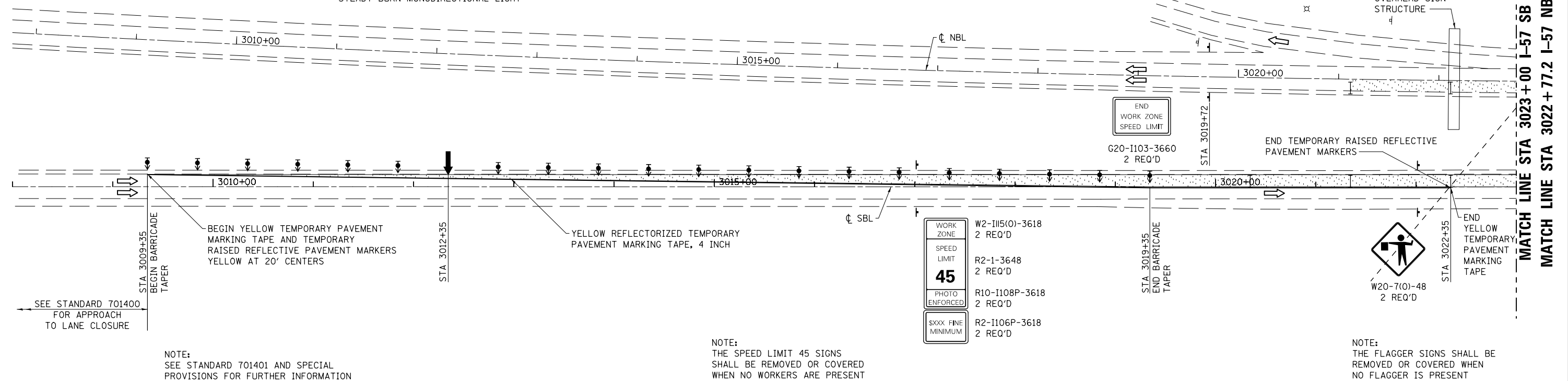
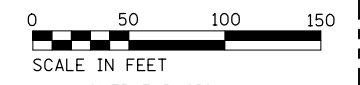
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	(91-4)B-1	UNION	160	40

CONTRACT NO. 78522

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

LEGEND

- ARROW BOARD
- WORK AREA
- SIGN
- DIRECTION INDICATOR BARRICADE WITH STEADY BURN MONODIRECTIONAL LIGHT
- TYPE II BARRICADE, DRUM, OR VERTICAL BARRICADE
- FLAGGER WITH TRAFFIC CONTROL SIGN
- LANE CLOSED TO TRAFFIC



PRINT DRIVER = LUD-EB-04-10-19
 SCALE NAME = PLOT
 FILE NAME = 20180222-1111-1111.dwg



USER NAME = SKM
 ESCA PROJECT NO. 1259.08
 PLOT SCALE = 0.1667" / 1' = 1/6"
 PLOT DATE = 3/19/2018

DESIGNED - SKM
 DRAWN - SKM
 CHECKED - ELH
 DATE - 12/17

REVISED -
 REVISED -
 REVISED -
 REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

STAGES I AND IV TRAFFIC CONTROL

SCALE: 1"=50' SHEET NO. 1 OF 3 SHEETS STA. 3008+00 TO STA. 3037+00





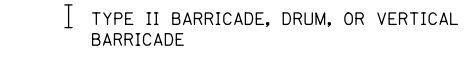

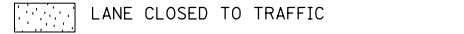
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	(91-4)B-1	UNION	160	41
CONTRACT NO. 78522				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

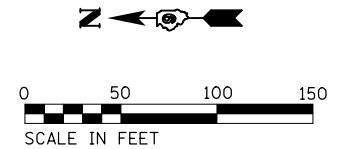
MODIFY EXISTING WINGWALL AND CONSTRUCT TRAFFIC BARRIER TERMINAL, TYPE 6B (SPECIAL) FOR STAGE II TRAFFIC CONTROL; SEE DETAILS ON SHEETS 65 & 66

TEMPORARY TRAFFIC BARRIER TERMINAL, TYPE 1, SPECIAL (FLARED)

SHAKE RAG RD.

LEGEND

-  ARROW BOARD
-  WORK AREA
-  SIGN
-  DIRECTION INDICATOR BARRICADE WITH STEADY BURN MONODIRECTIONAL LIGHT
-  TYPE II BARRICADE, DRUM, OR VERTICAL BARRICADE
-  FLAGGER WITH TRAFFIC CONTROL SIGN
-  LANE CLOSED TO TRAFFIC



SEE SHEET 41 FOR CONT.
MATCH LINE STA 3037+00

MATCH LINE STA 3052+00

NOTE:
SEE STANDARD 701401 AND SPECIAL PROVISIONS FOR FURTHER INFORMATION

MATCH LINE STA 3052+00

MATCH LINE STA 3067+00
SEE SHEET 43 FOR CONT.

CONSTRUCT SOUTH MEDIAN CROSSOVER - NB & SB IN STAGE I;
REMOVE CROSSOVERS IN STAGE IV

BEGIN YELLOW TEMPORARY PAVEMENT MARKING TAPE AND TEMPORARY RAISED REFLECTIVE PAVEMENT MARKERS YELLOW AT 20' CENTERS

NOTE:
THE FLAGGER SIGNS SHALL BE REMOVED OR COVERED WHEN NO FLAGGER IS PRESENT



PRINT DRIVER = L:\05-ESB\10179
 SCALE NAME = PLOT
 FILE NAME = 121222-111-10179.dwg



USER NAME = SKM	DESIGNED - SKM	REVISED -
ESCA PROJECT NO. 1259.08	DRAWN - SKM	REVISED -
PLOT SCALE = 0.1667' / 1" =	CHECKED - ELH	REVISED -
PLOT DATE = 3/19/2018	DATE - 12/17	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

STAGES I AND IV TRAFFIC CONTROL

SCALE: 1"=50' SHEET NO. 2 OF 3 SHEETS STA. 3037+00 TO STA. 3067+00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	(91-4)B-1	UNION	160	42
CONTRACT NO. 78522				
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

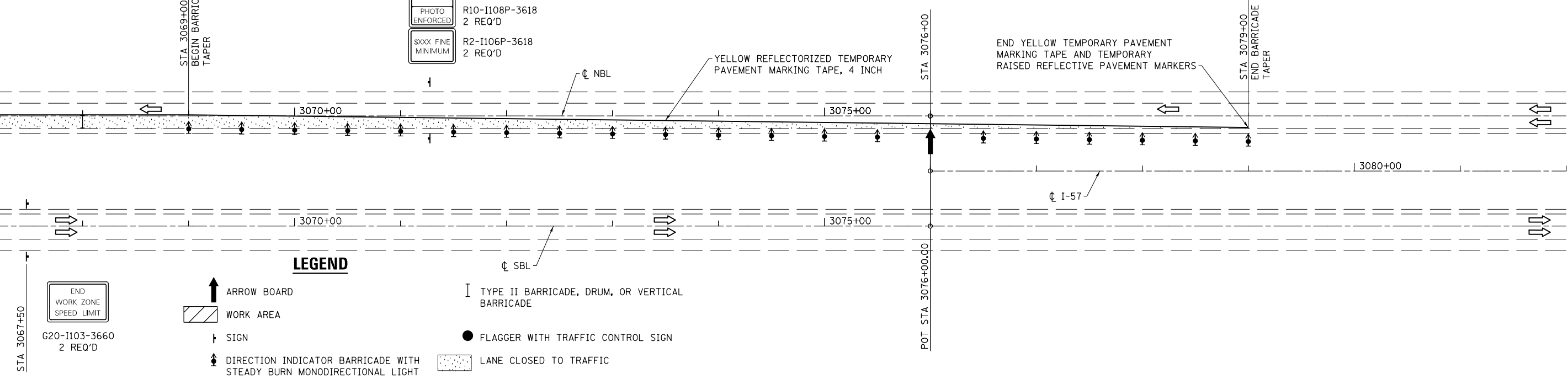


SEE STANDARD 701400 FOR APPROACH TO LANE CLOSURE

WORK ZONE	W2-II(5(0))-3618
SPEED LIMIT	R2-1-3648 2 REQ'D
PHOTO ENFORCED	R10-II08P-3618 2 REQ'D
SXXX FINE MINIMUM	R2-II06P-3618 2 REQ'D

NOTE:
THE SPEED LIMIT 45 SIGNS SHALL BE REMOVED OR COVERED WHEN NO WORKERS ARE PRESENT

SEE SHEET 42 FOR CONT.
MATCH LINE STA 3067+00



END WORK ZONE SPEED LIMIT
G20-II03-3660
2 REQ'D

LEGEND

- ARROW BOARD
- WORK AREA
- SIGN
- DIRECTION INDICATOR BARRICADE WITH STEADY BURN MONODIRECTIONAL LIGHT
- TYPE II BARRICADE, DRUM, OR VERTICAL BARRICADE
- FLAGGER WITH TRAFFIC CONTROL SIGN
- LANE CLOSED TO TRAFFIC

NOTE:
SEE STANDARD 701401 AND SPECIAL PROVISIONS FOR FURTHER INFORMATION

PRINT DRIVER = L:\05-EB\Bates\9
SCALE NAME = PLOT
SCALE VALUE = 0.16667
FILE NAME = 010222-111-1-1-1.dwg



USER NAME = SKM	DESIGNED - SKM	REVISED -
ESCA PROJECT NO. 1259.08	DRAWN - SKM	REVISED -
PLOT SCALE = 0.1667' / 1"	CHECKED - ELH	REVISED -
PLOT DATE = 3/19/2018	DATE - 12/17	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

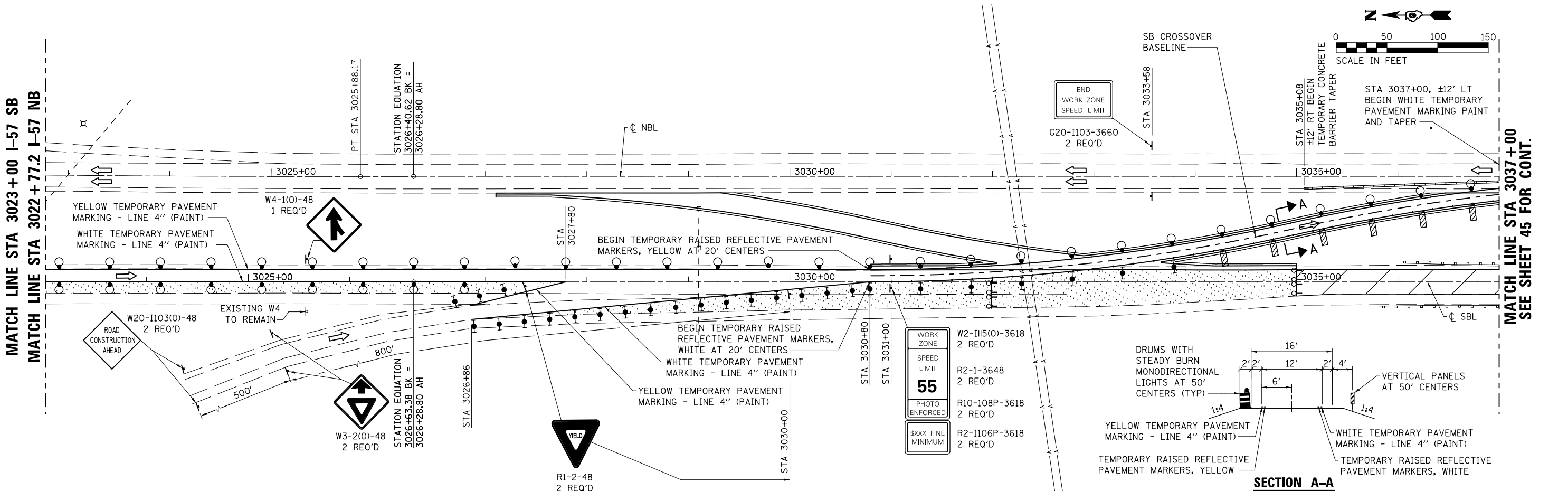
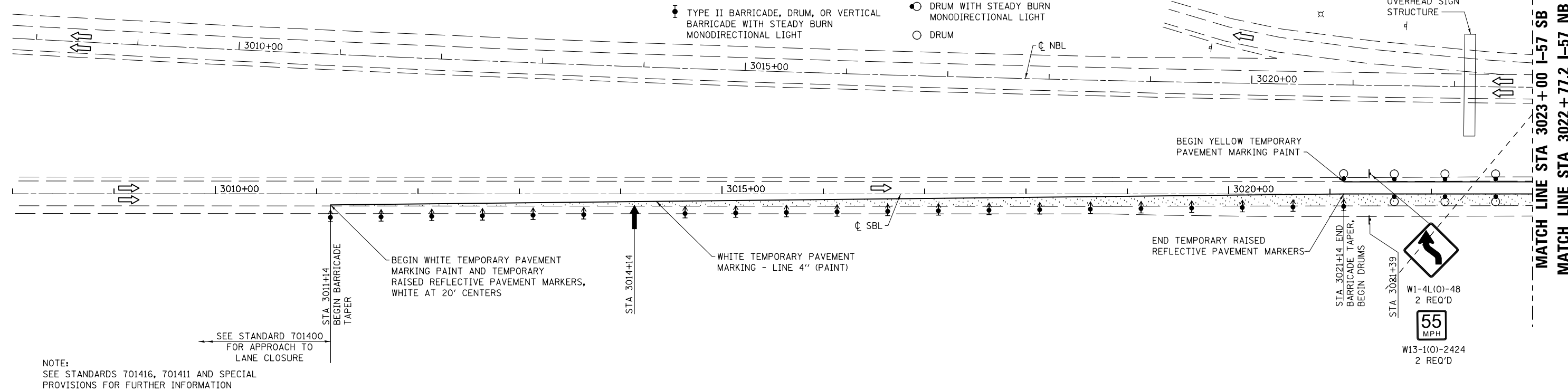
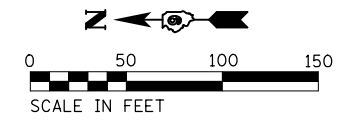
STAGES I AND IV TRAFFIC CONTROL

SCALE: 1"=50' SHEET NO. 3 OF 3 SHEETS STA. 3067+00 TO STA. 3082+00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	(91-4)B-1	UNION	160	43
CONTRACT NO. 78522				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

LEGEND

- ARROW BOARD
- WORK AREA
- SIGN
- DIRECTION INDICATOR BARRICADE WITH STEADY BURN MONODIRECTIONAL LIGHT
- TYPE II BARRICADE, DRUM, OR VERTICAL BARRICADE WITH STEADY BURN MONODIRECTIONAL LIGHT
- VERTICAL PANEL (BACK TO BACK)
- TYPE III BARRICADE WITH FLASHING LIGHTS
- TEMPORARY CONCRETE BARRIER
- LANE CLOSED TO TRAFFIC
- DRUM WITH STEADY BURN MONODIRECTIONAL LIGHT
- DRUM



PRINT DRIVER = L:\05\B\B\1019
 ESCA PROJECT NO. 1259.08
 PLOT SCALE = 0.1667" / 1"
 PLOT DATE = 3/19/2018



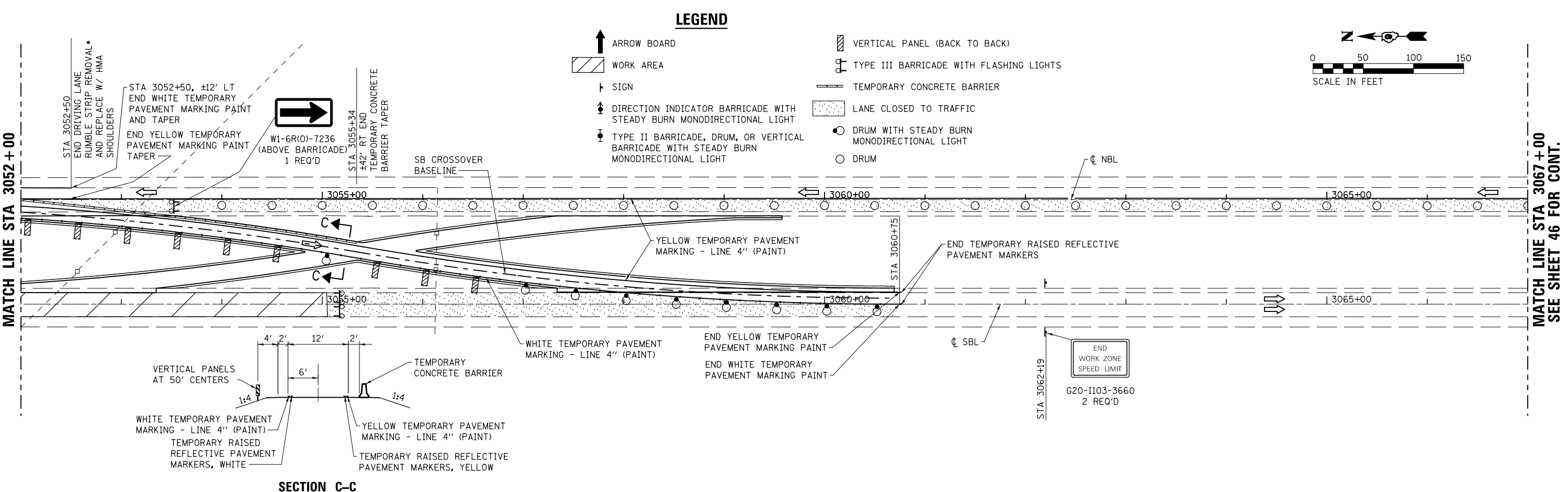
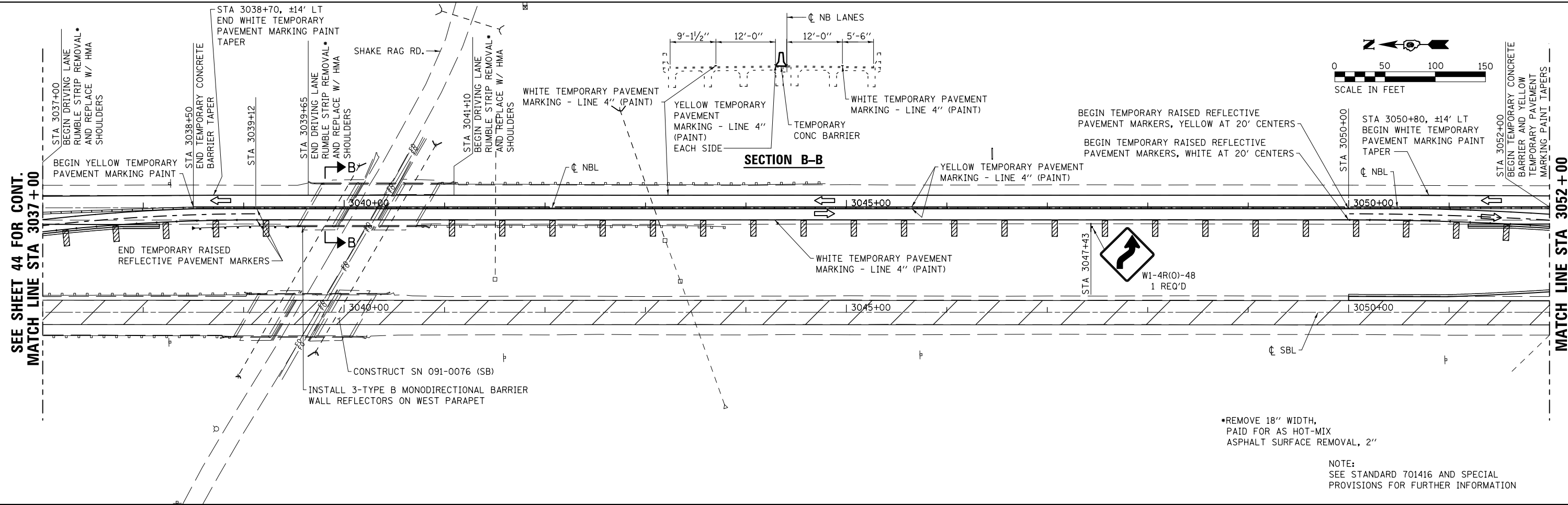
USER NAME = SKM	DESIGNED - SKM	REVISED -
ESCA PROJECT NO. 1259.08	DRAWN - SKM	REVISED -
PLOT SCALE = 0.1667" / 1"	CHECKED - ELH	REVISED -
PLOT DATE = 3/19/2018	DATE - 02/18	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

STAGE II TRAFFIC CONTROL

SCALE: 1"=50' SHEET NO. 1 OF 3 SHEETS STA. 3008+00 TO STA. 3037+00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	(91-4)B-1	UNION	160	44
CONTRACT NO. 78522				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				



LEGEND

- ARROW BOARD
- WORK AREA
- SIGN
- DIRECTION INDICATOR BARRICADE WITH STEADY BURN MONODIRECTIONAL LIGHT
- TYPE II BARRICADE, DRUM, OR VERTICAL BARRICADE WITH STEADY BURN MONODIRECTIONAL LIGHT
- VERTICAL PANEL (BACK TO BACK)
- TYPE III BARRICADE WITH FLASHING LIGHTS
- TEMPORARY CONCRETE BARRIER
- LANE CLOSED TO TRAFFIC
- DRUM WITH STEADY BURN MONODIRECTIONAL LIGHT
- DRUM

PRINT DRIVER = L:\D-E\B\1819
 USER NAME = L:\D-E\B\1819
 PLOT DATE = 3/19/2018




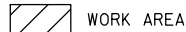






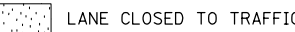


USER NAME = SKM	DESIGNED - SKM	REVISED -
ESCA PROJECT NO. 1259.08	DRAWN - SKM	REVISED -
PLOT SCALE = 0.1667' / 1"	CHECKED - ELH	REVISED -
PLOT DATE = 3/19/2018	DATE - 02/18	REVISED -

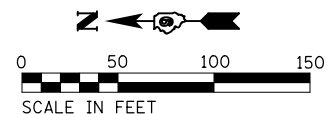
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

STAGE II TRAFFIC CONTROL
 SCALE: 1"=50' SHEET NO. 2 OF 3 SHEETS STA. 3037+00 TO STA. 3067+00

F.A.I. RTE. 57	SECTION (91-4)B-1	COUNTY UNION	TOTAL SHEETS 160	SHEET NO. 45
CONTRACT NO. 78522				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

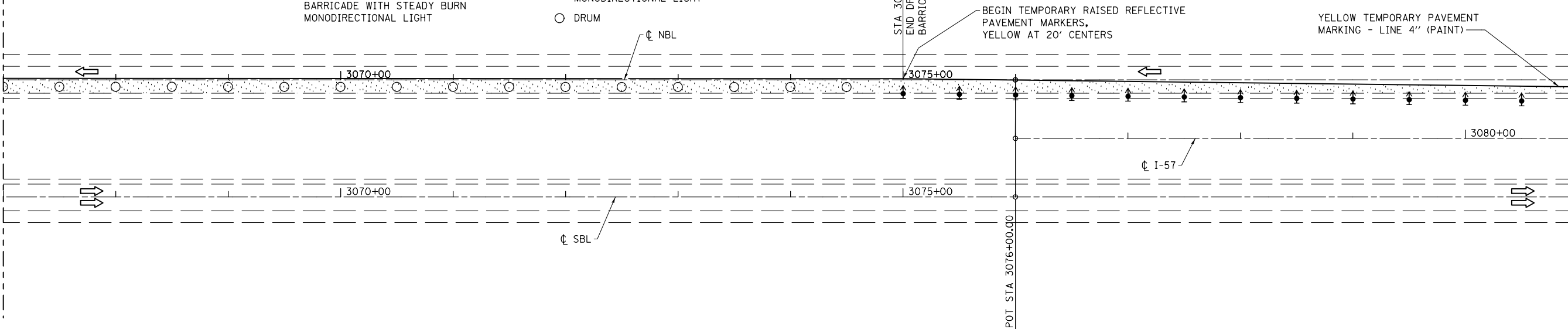
LEGEND

-  ARROW BOARD
-  WORK AREA
-  SIGN
-  DIRECTION INDICATOR BARRICADE WITH STEADY BURN MONODIRECTIONAL LIGHT
-  TYPE II BARRICADE, DRUM, OR VERTICAL BARRICADE WITH STEADY BURN MONODIRECTIONAL LIGHT
-  VERTICAL PANEL (BACK TO BACK)
-  TYPE III BARRICADE WITH FLASHING LIGHTS
-  TEMPORARY CONCRETE BARRIER
-  LANE CLOSED TO TRAFFIC
-  DRUM WITH STEADY BURN MONODIRECTIONAL LIGHT
-  DRUM



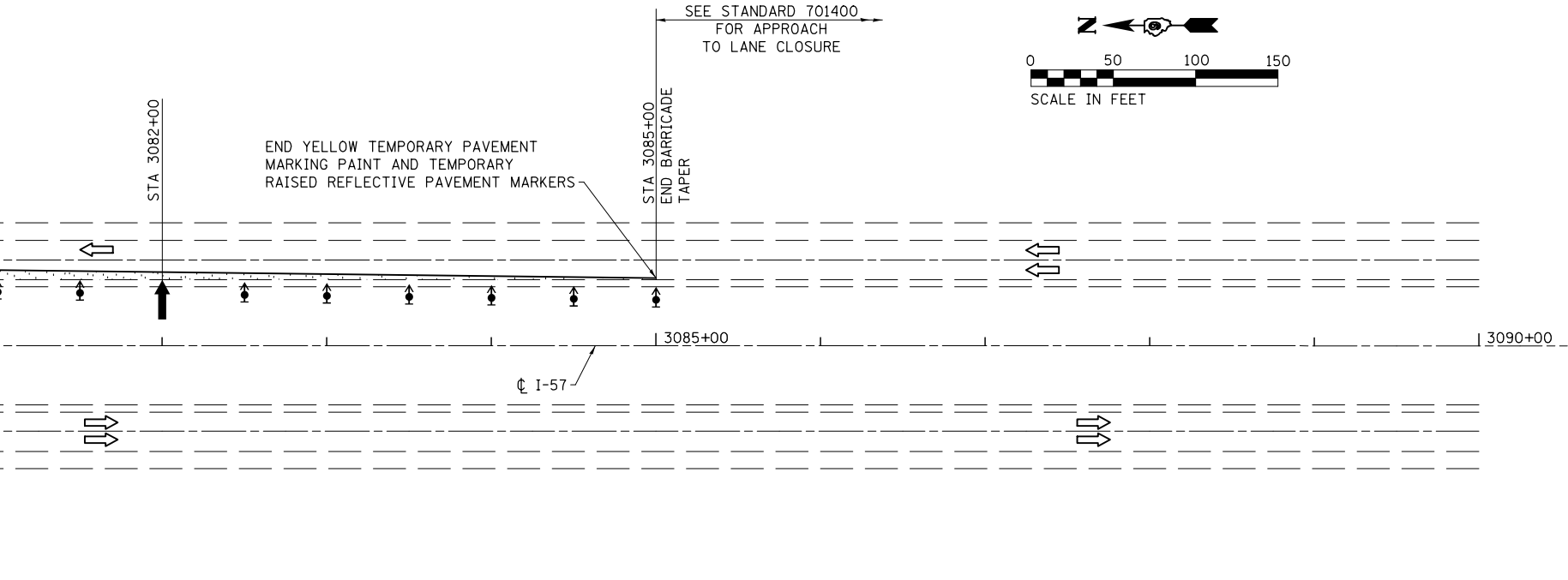
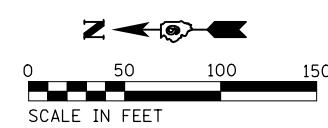
SEE SHEET 45 FOR CONT.
MATCH LINE STA 3067+00

MATCH LINE STA 3081+00



NOTE:
SEE STANDARD 701416 AND SPECIAL PROVISIONS FOR FURTHER INFORMATION

MATCH LINE STA 3081+00



PRINT DRIVER = L:\05-ESCA\10199
 SCALE NAME = PLOT
 FILE NAME = 020222-111-1-10199.dwg



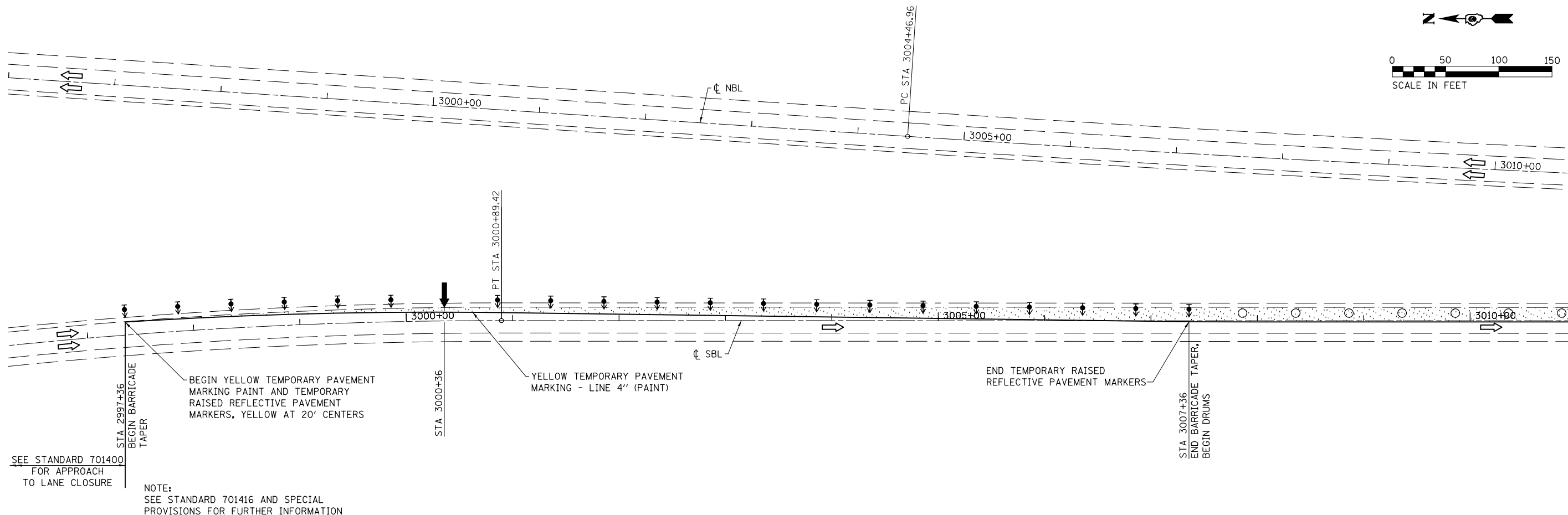
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ESCA PROJECT NO. 1259.08	DRAWN - SKM	REVISED -
PLOT SCALE = 0.1667' / 1"	CHECKED - ELH	REVISED -
PLOT DATE = 3/19/2018	DATE - 02/18	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

STAGE II TRAFFIC CONTROL

SCALE: 1"=50' SHEET NO. 3 OF 3 SHEETS STA. 3067+00 TO STA. 3090+00

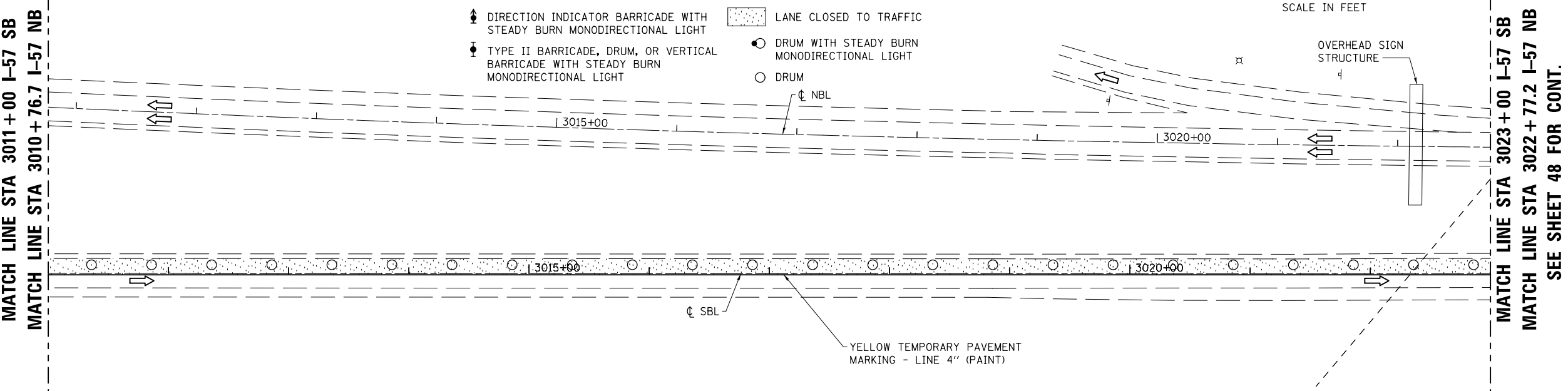
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	(91-4)B-1	UNION	160	46
CONTRACT NO. 78522				
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		



NOTE:
SEE STANDARD 70146 AND SPECIAL PROVISIONS FOR FURTHER INFORMATION

LEGEND

- ARROW BOARD
- WORK AREA
- SIGN
- DIRECTION INDICATOR BARRICADE WITH STEADY BURN MONODIRECTIONAL LIGHT
- TYPE II BARRICADE, DRUM, OR VERTICAL BARRICADE WITH STEADY BURN MONODIRECTIONAL LIGHT
- VERTICAL PANEL (BACK TO BACK)
- TYPE III BARRICADE WITH FLASHING LIGHTS
- TEMPORARY CONCRETE BARRIER
- LANE CLOSED TO TRAFFIC
- DRUM WITH STEADY BURN MONODIRECTIONAL LIGHT
- DRUM



SEE SHEET 48 FOR CONT.

PRINT DRIVER = L:\E-Books\1019
 SCALE NAME = PLOT
 SCALE NAME = 0.1667
 PLOT DATE = 3/19/2018



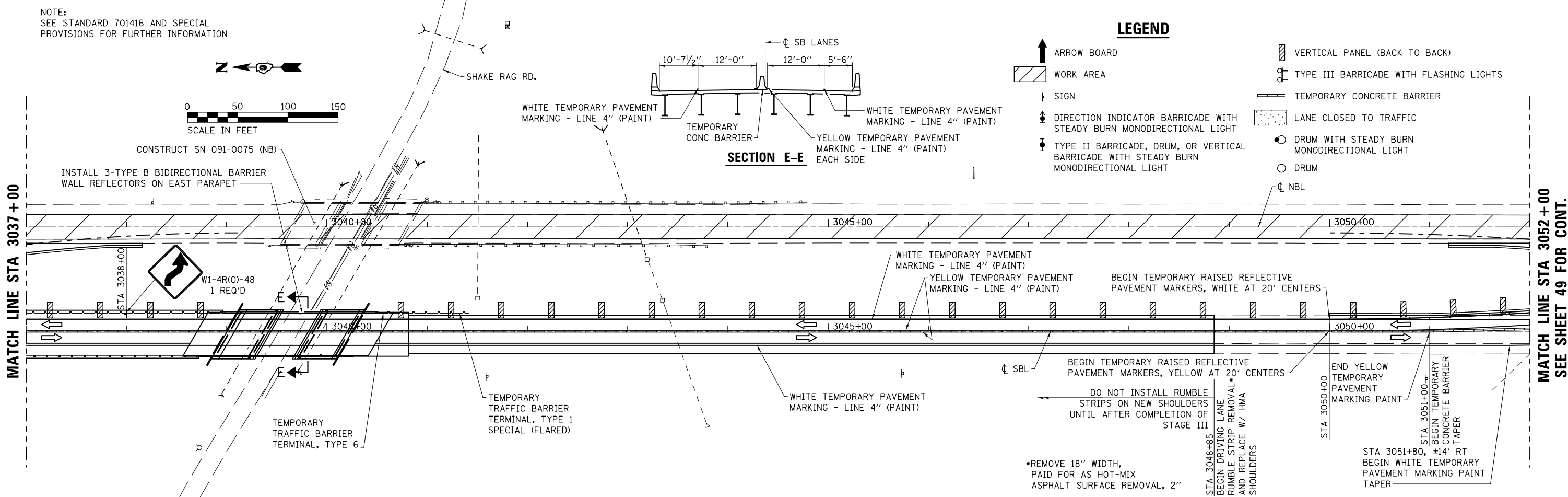
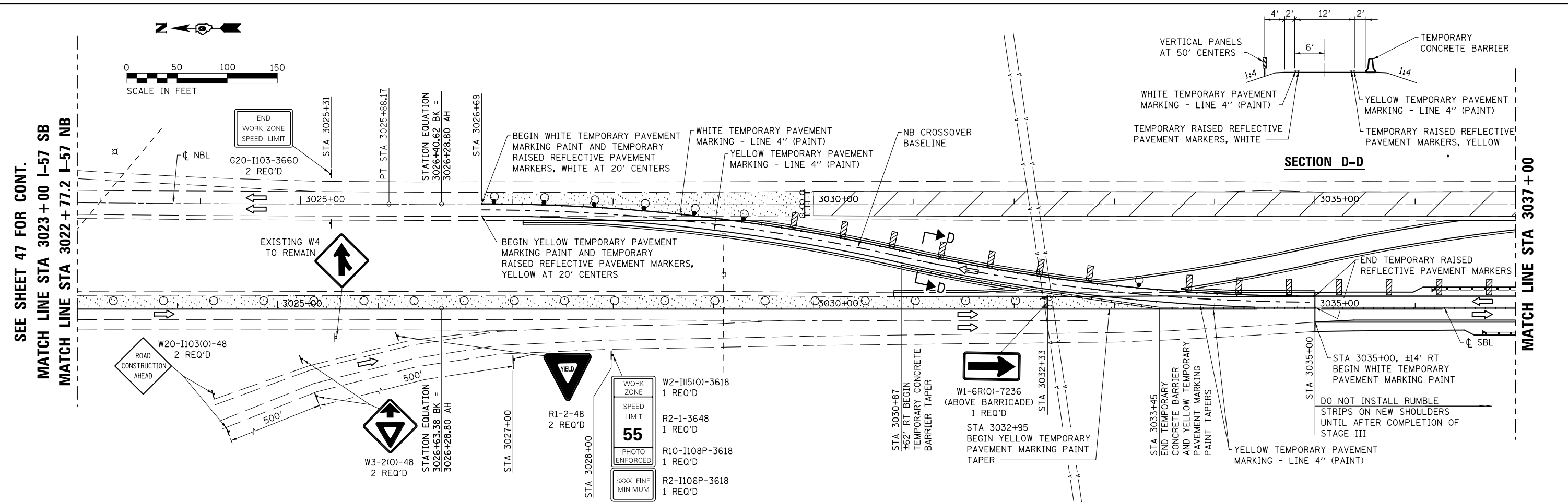
USER NAME = SKM	DESIGNED - SKM	REVISED -
ESCA PROJECT NO. 1259.08	DRAWN - SKM	REVISED -
PLOT SCALE = 0.1667' / 1"	CHECKED - ELH	REVISED -
PLOT DATE = 3/19/2018	DATE - 02/18	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

STAGE III TRAFFIC CONTROL

SCALE: 1"=50' SHEET NO. 1 OF 3 SHEETS STA. 2996+00 TO STA. 3023+00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	(91-4)B-1	UNION	160	47
CONTRACT NO. 78522				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				



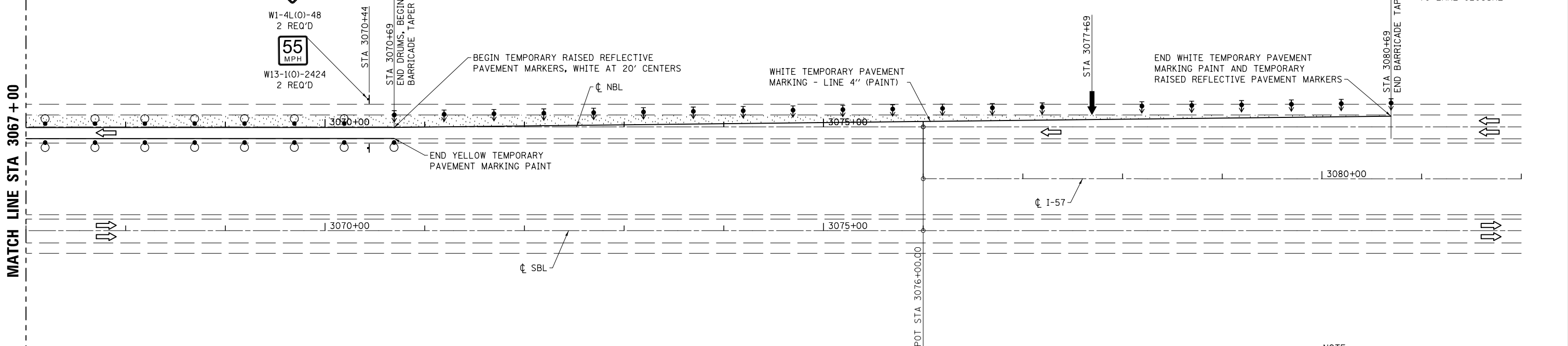
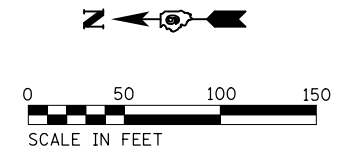
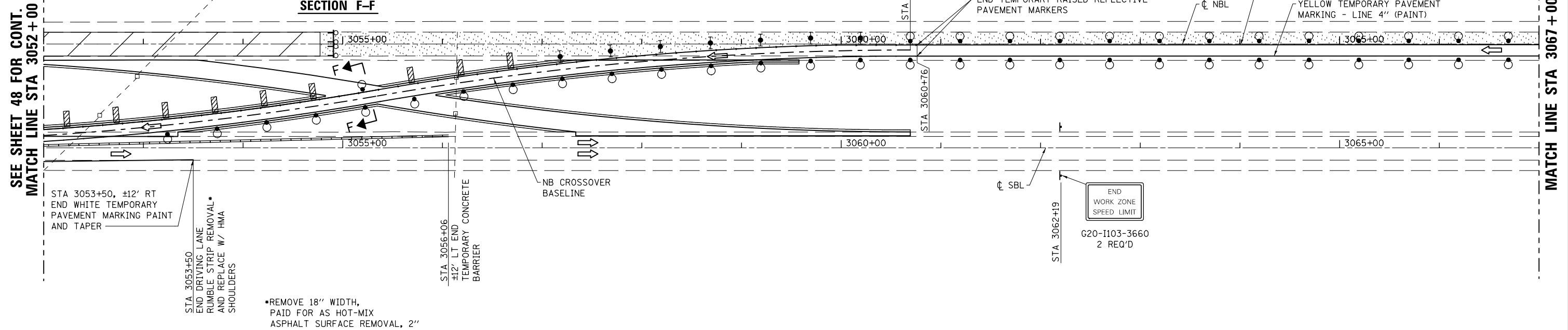
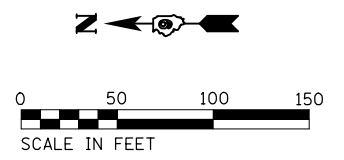
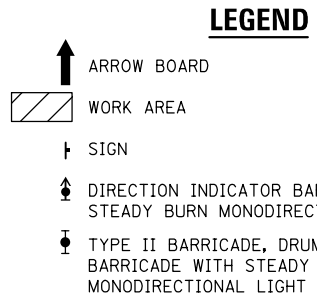
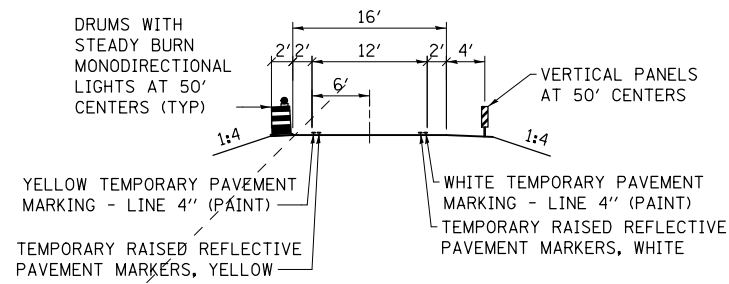
USER NAME = SKM	DESIGNED - SKM	REVISED -
ESCA PROJECT NO. 1259.08	DRAWN - SKM	REVISED -
PLOT SCALE = 0.1667" / 1"	CHECKED - ELH	REVISED -
PLOT DATE = 3/19/2018	DATE - 02/18	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

STAGE III TRAFFIC CONTROL

SCALE: 1"=50' SHEET NO. 2 OF 3 SHEETS STA. 3023+00 TO STA. 3052+00

F.A.I. RTE. = 57	SECTION = (91-4)B-1	COUNTY =	TOTAL SHEETS = 160	SHEET NO. = 48
UNION =		CONTRACT NO. 78522		
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				



NOTE:
SEE STANDARD 701416 AND SPECIAL PROVISIONS FOR FURTHER INFORMATION

PRINT DRIVER = L:\05\B\B\1519
 PLOT DATE = 3/19/2018
 PLOT SCALE = 0.1667' / 1"



USER NAME = SKM
 ESCA PROJECT NO. 1259.08
 PLOT SCALE = 0.1667' / 1"
 PLOT DATE = 3/19/2018

DESIGNED - SKM
 DRAWN - SKM
 CHECKED - ELH
 DATE - 02/18

REVISED -
 REVISED -
 REVISED -
 REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

STAGE III TRAFFIC CONTROL

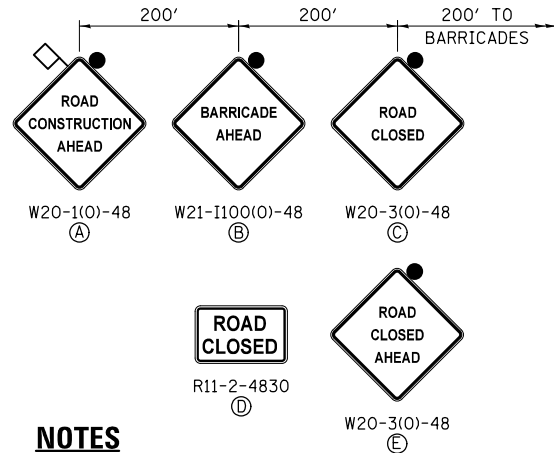
SCALE: 1"=50' SHEET NO. 3 OF 3 SHEETS STA. 3052+00 TO STA. 3082+00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	(91-4)B-1	UNION	160	49
CONTRACT NO. 78522				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				



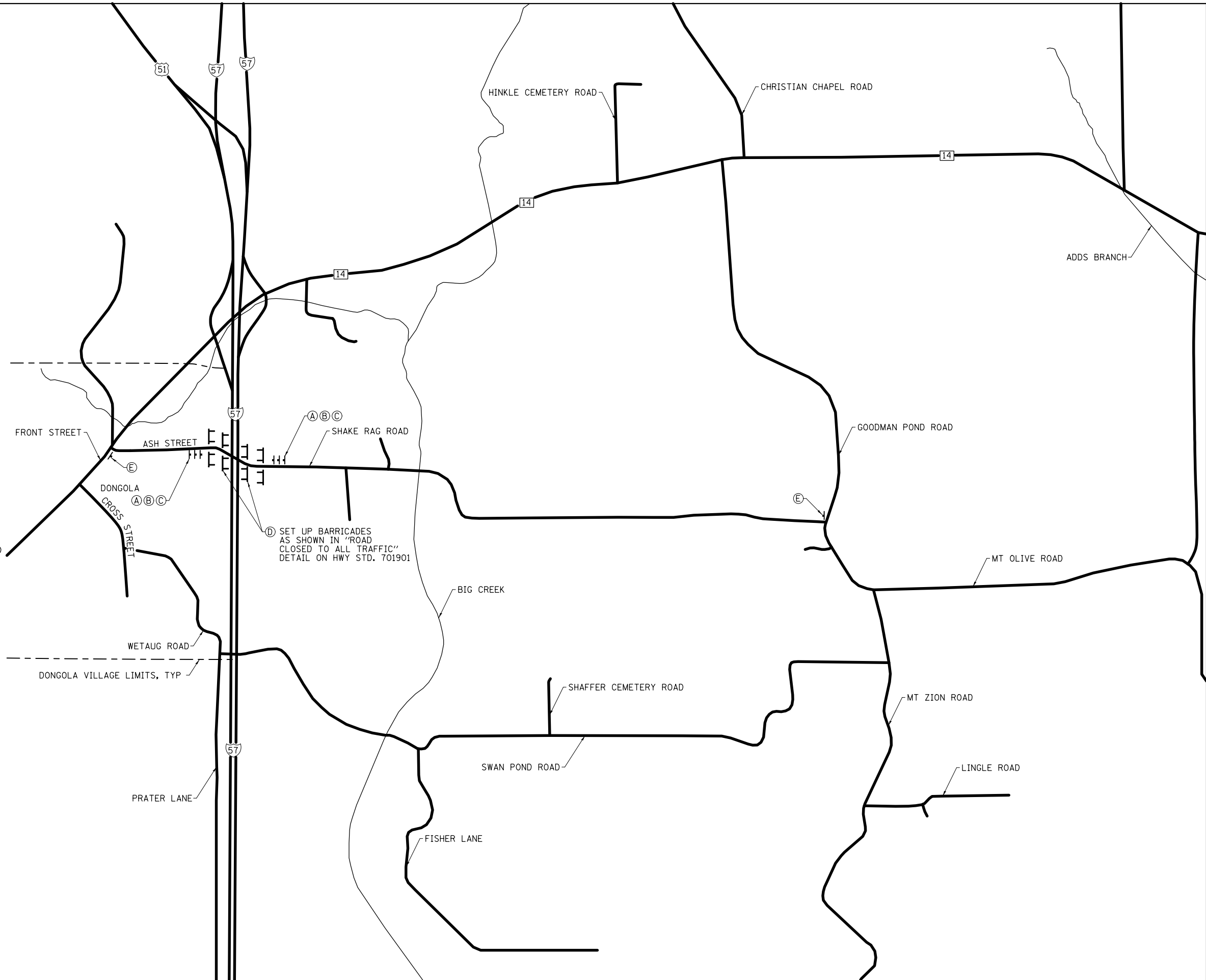
LEGEND

- ↓ SIGN ON PERMANENT SUPPORT
- ⊥ TYPE III BARRICADES WITH FLASHING LIGHTS



NOTES

1. ALL TRAFFIC CONTROL DEVICES SHALL BE FURNISHED, ERECTED, MAINTAINED, AND REMOVED BY THE CONTRACTOR.
2. ALL SIGNS NOT ATTACHED TO BARRICADES SHALL BE POST MOUNTED.
3. LOCATIONS OF TRAFFIC CONTROL DEVICES MAY BE ADJUSTED BY THE ENGINEER.
4. SEE STANDARD 701901 FOR ADDITIONAL DETAILS.
5. ALL TRAFFIC CONTROL SHOWN ON THIS SHEET SHALL BE INCLUDED IN THE LUMP SUM AMOUNT FOR TRAFFIC CONTROL AND PROTECTION, (SPECIAL).
6. SHAKE RAG ROAD MAY BE CLOSED INTERMITTENTLY WHEN REQUIRED FOR BRIDGE CONSTRUCTION. SEE SPECIAL PROVISIONS.



① SET UP BARRICADES AS SHOWN IN "ROAD CLOSED TO ALL TRAFFIC" DETAIL ON HWY STD. 701901

PRINT DRIVER = L:\05-EB\Bates\9
 SCALE NAME = PLOT
 FILE NAME = 010222-ent-1-ent-1-ent-1.dwg



USER NAME = SKM
 ESCA PROJECT NO. 1259.08
 PLOT SCALE = 0:2 '1" / 1"
 PLOT DATE = 3/19/2018 12:57:35 PM

DESIGNED - ELH
 DRAWN - KAH
 CHECKED - RDP
 DATE - 12/17

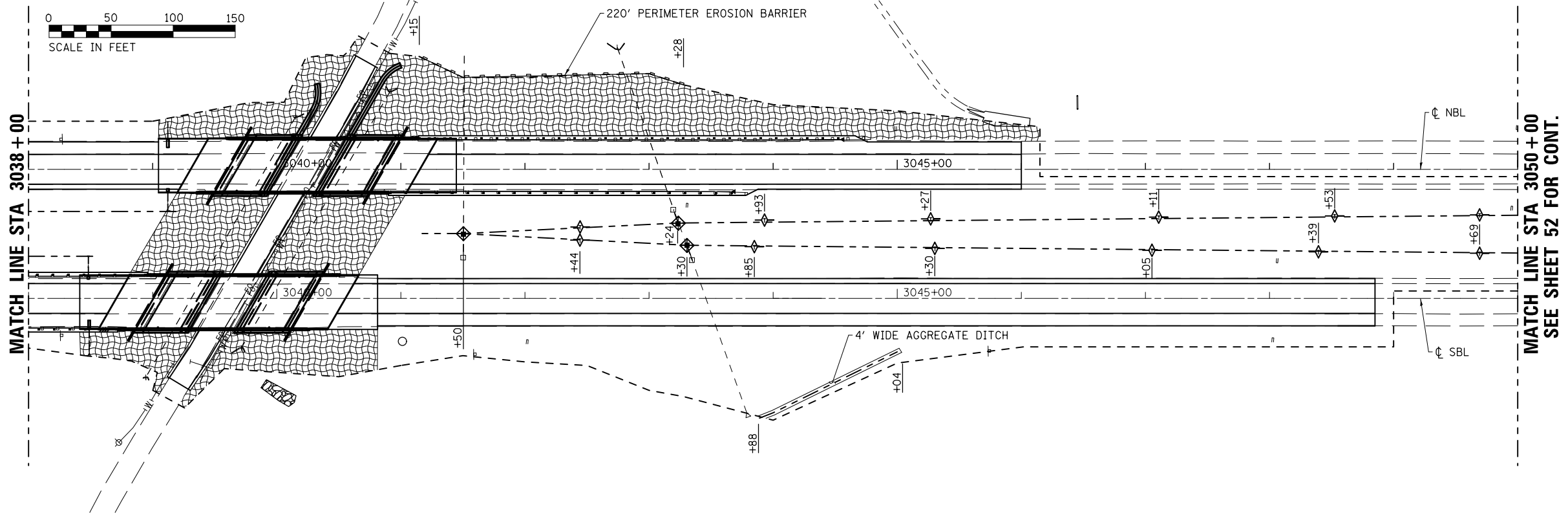
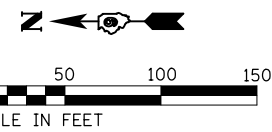
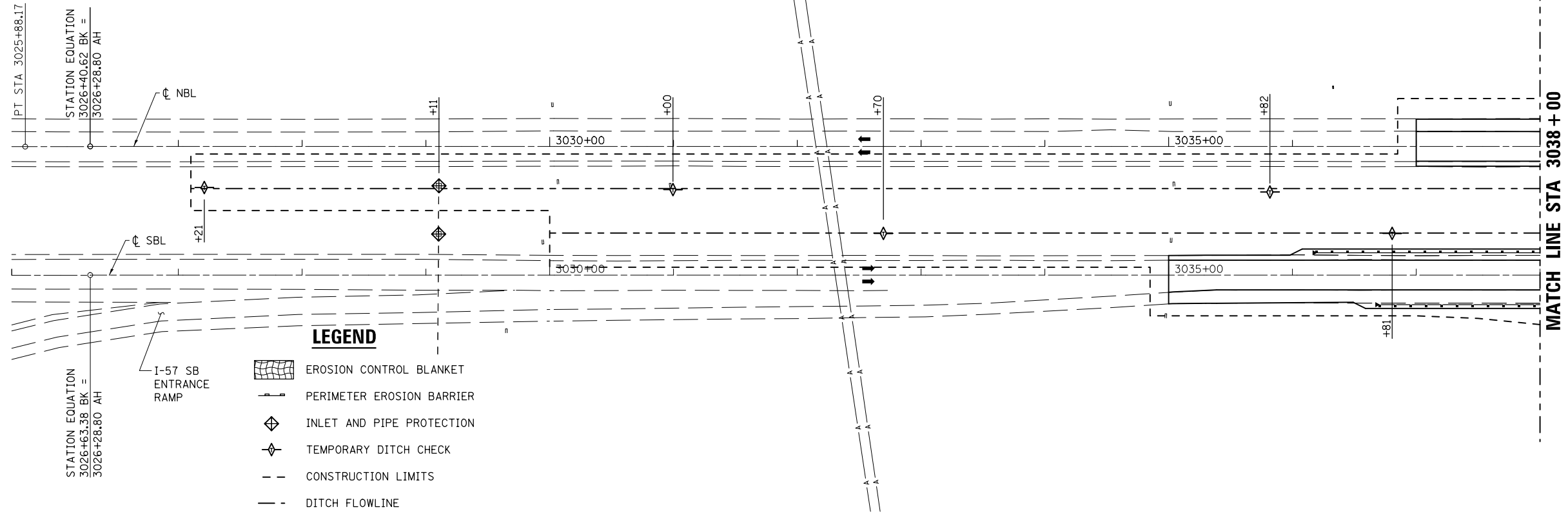
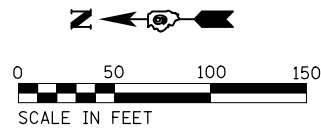
REVISED -
 REVISED -
 REVISED -
 REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

SHAKE RAG ROAD CLOSURE PLAN

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

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	(91-4)B-1	UNION	160	50
CONTRACT NO. 78522				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				



PRINT DRIVER = L:\05-EB\Bates\179
SCALE NAME = 1:50000
FILE NAME = 302522-1041-1000.dwg



USER NAME = SKM	DESIGNED - SKM	REVISED -
ESCA PROJECT NO. 1259.08	DRAWN - SKM	REVISED -
PLOT SCALE = 0.2" = 1' = 1/4"	CHECKED - ELH	REVISED -
PLOT DATE = 3/19/2018 12:57:36 PM	DATE - 03/18	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION







EROSION CONTROL PLANS

SCALE: 1"=50'-0" SHEET NO. 1 OF 3 SHEETS STA. 3026+00.00 TO STA. 3050+00.00

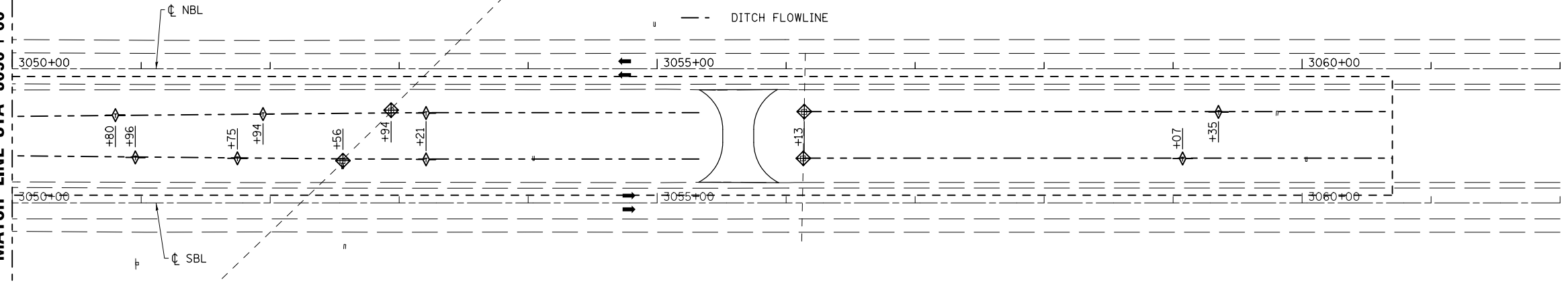
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	(91-4)B-1	UNION	160	51
CONTRACT NO. 78522				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				



LEGEND

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

SEE SHEET 51 FOR CONT.
MATCH LINE STA 3050+00



PRINT DRIVER = L:\0-EB\Bates\9
 SCALE NAME = PLOT
 FILE NAME = 010222-ent\eroc22.dgn



USER NAME = SKM	DESIGNED - SKM	REVISED -
ESCA PROJECT NO. 1259.08	DRAWN - SKM	REVISED -
PLOT SCALE = 0:2 '1' / in.	CHECKED - ELH	REVISED -
PLOT DATE = 3/19/2018 12:57:37 PM	DATE - 12/17	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

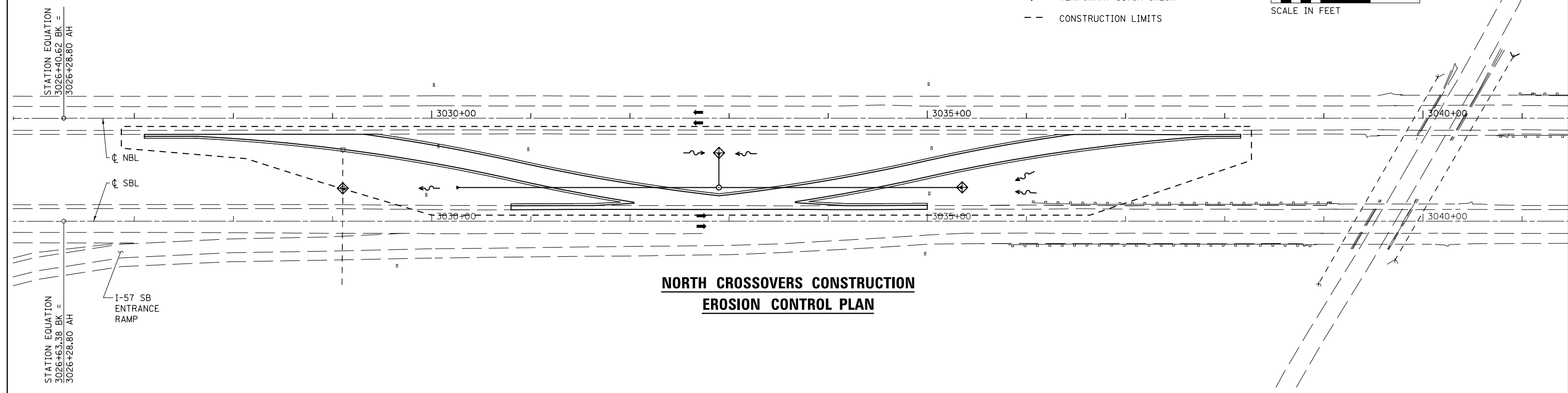
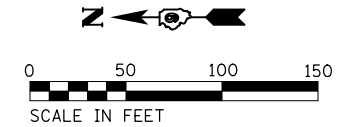
EROSION CONTROL PLANS

SCALE: 1"=50'-0" SHEET NO. 2 OF 3 SHEETS STA. 3050+00.00 TO STA. 3062+00.00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	(91-4)B-1	UNION	160	52
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT			CONTRACT NO. 78522	

LEGEND

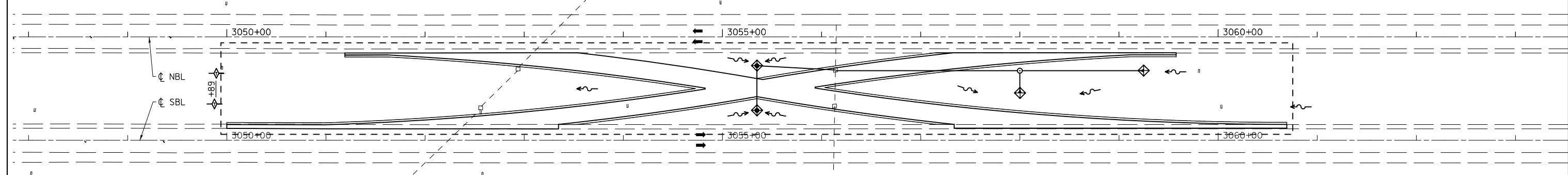
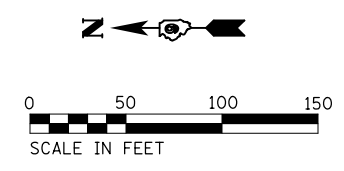
- ◆ INLET AND PIPE PROTECTION
- ◇ TEMPORARY DITCH CHECK
- - CONSTRUCTION LIMITS



**NORTH CROSSOVERS CONSTRUCTION
EROSION CONTROL PLAN**

LEGEND

- ◆ INLET AND PIPE PROTECTION
- ◇ TEMPORARY DITCH CHECK
- - CONSTRUCTION LIMITS



**SOUTH CROSSOVERS CONSTRUCTION
EROSION CONTROL PLAN**

PRINT DRIVER = L:\E-Books\10199...
 USER NAME = J:\10199...
 PLOT DATE = 3/19/2018 12:57:38 PM



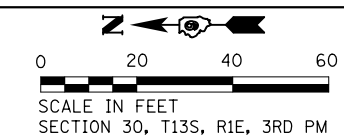
USER NAME = SKM	DESIGNED - SKM	REVISED -
ESCA PROJECT NO. 1259.08	DRAWN - SKM	REVISED -
PLOT SCALE = 0:2' / in.	CHECKED - ELH	REVISED -
PLOT DATE = 3/19/2018 12:57:38 PM	DATE - 03/18	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

EROSION CONTROL PLANS

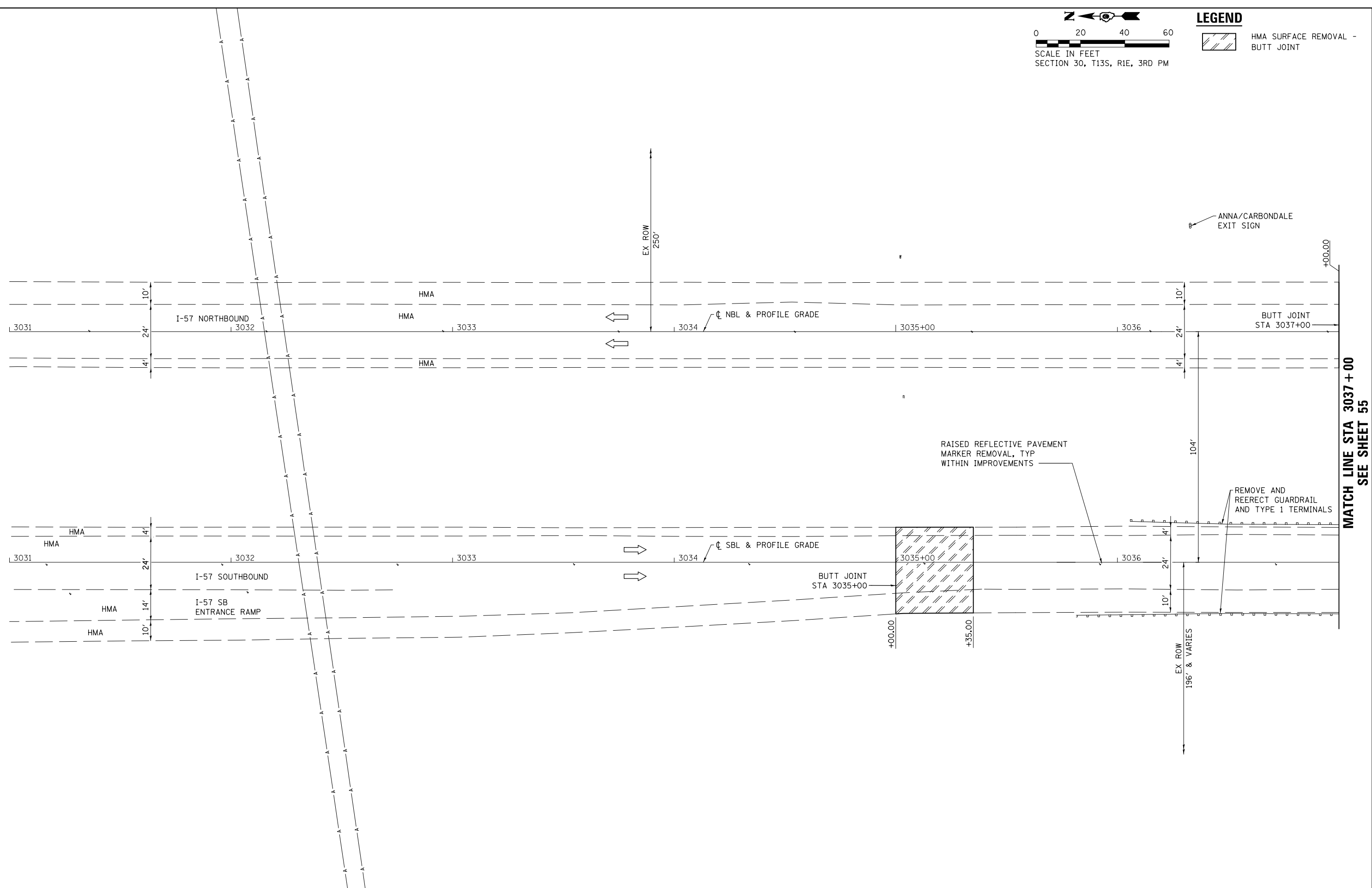
SCALE: 1"=50'-0" SHEET NO. 3 OF 3 SHEETS STA. 3026+00.00 TO STA. 3063+00.00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	(91-4)B-1	UNION	160	53
CONTRACT NO. 78522				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				



LEGEND

	HMA SURFACE REMOVAL - BUTT JOINT
--	----------------------------------



MATCH LINE STA 3037 + 00
SEE SHEET 55

PRINT DRIVER = L:\01\1259\1259.dwg
PLOT DATE = 3/19/2018
SCALE = 1/4"=20'
FILE NAME = 1259.dwg



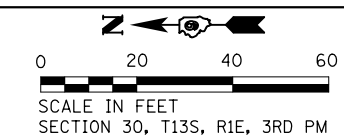
USER NAME = skm	DESIGNED - SKM	REVISED -
ESCA PROJECT 1259.08	DRAWN - SKM	REVISED -
PLOT SCALE = 40.0000' / in.	CHECKED - ELH	REVISED -
PLOT DATE = 3/19/2018	DATE - 03/18	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

REMOVAL PLANS

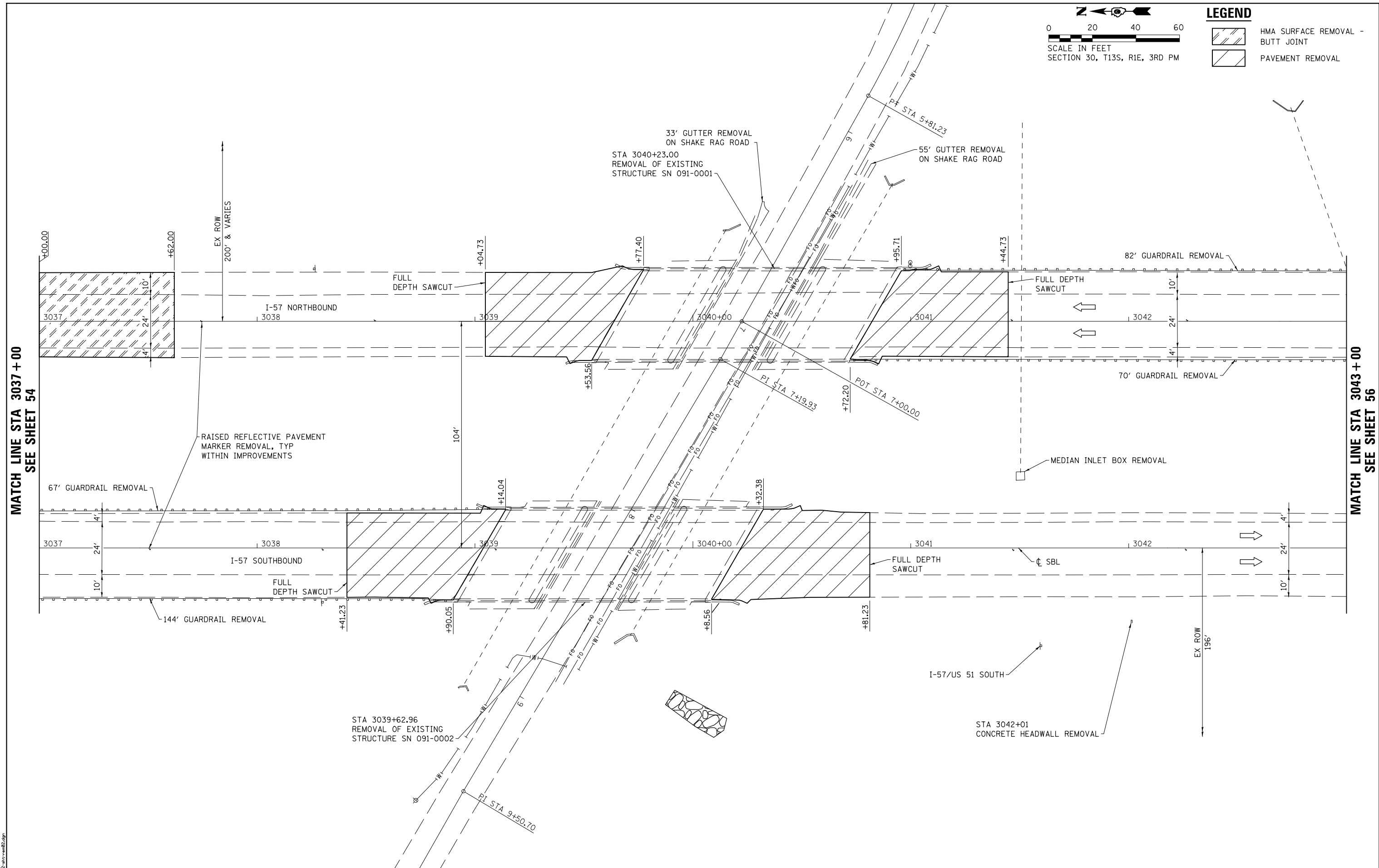
SCALE: 1"=20' SHEET NO. 1 OF 3 SHEETS STA. 3031+00 TO STA. 3037+00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	(91-4)B-1	UNION	160	54
CONTRACT NO. 78522			ILLINOIS FED. AID PROJECT	



LEGEND

	HMA SURFACE REMOVAL - BUTT JOINT
	PAVEMENT REMOVAL



MATCH LINE STA 3037 + 00
SEE SHEET 54

MATCH LINE STA 3043 + 00
SEE SHEET 56

PRINT DRIVER = L:\01\2018\1259\08\1259_08.dwg
PLOT DATE = 3/19/2018
SCALE = 1/8"=1'-0"



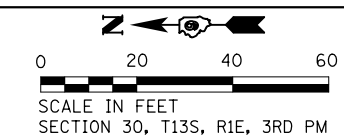
USER NAME = skm	DESIGNED - SKM	REVISED -
ESCA PROJECT 1259.08	DRAWN - SKM	REVISED -
PLOT SCALE = 40.0000' / 1"	CHECKED - ELH	REVISED -
PLOT DATE = 3/19/2018	DATE - 03/18	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

REMOVAL PLANS

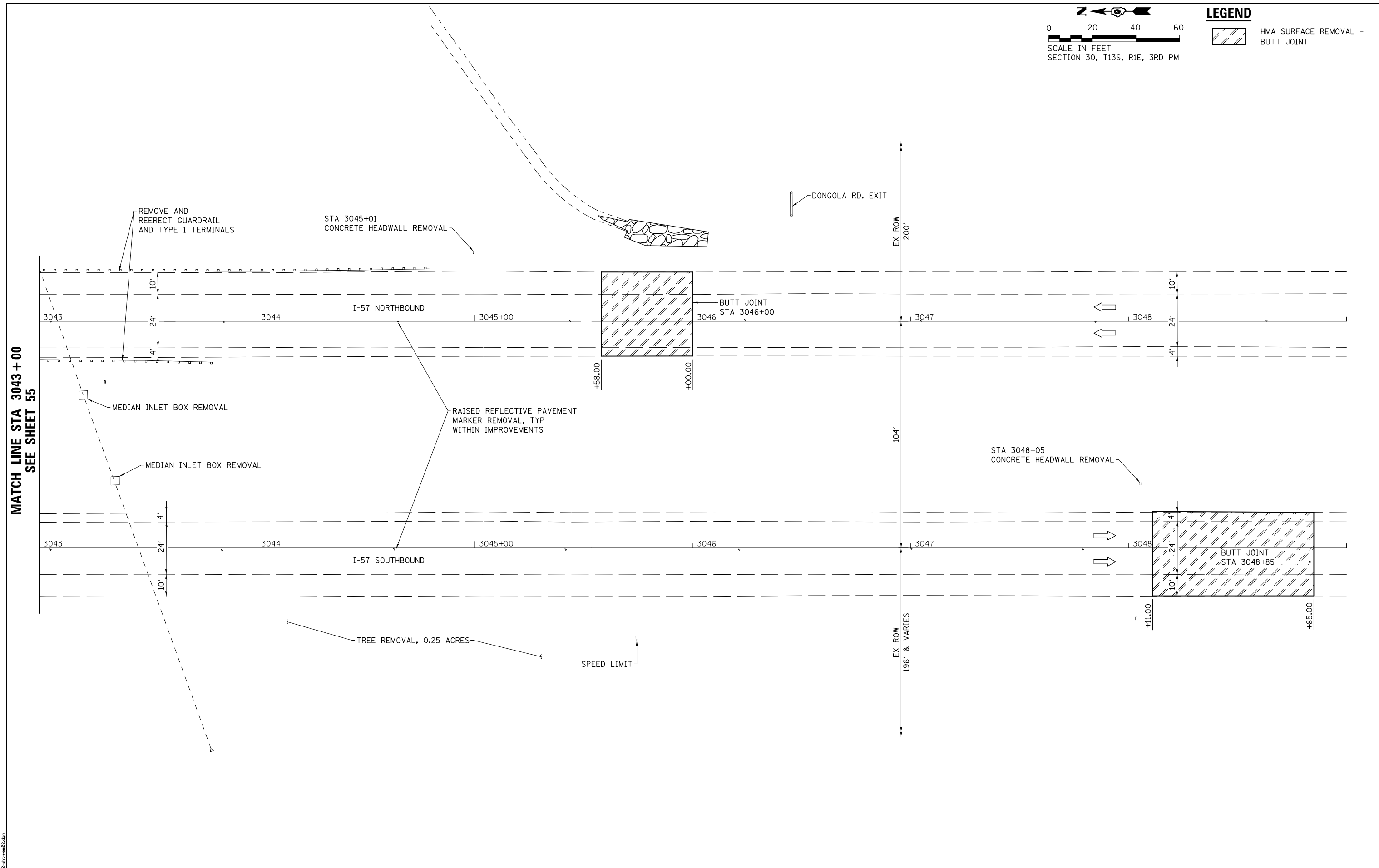
SCALE: 1"=20' SHEET NO. 2 OF 3 SHEETS STA. 3037+00 TO STA. 3043+00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	(91-4)B-1	UNION	160	55
CONTRACT NO. 78522			ILLINOIS FED. AID PROJECT	



LEGEND

	HMA SURFACE REMOVAL - BUTT JOINT
--	----------------------------------



PRINT DRIVER = L:\01\1259\1259.dwg
 USER NAME = SKM
 PLOT DATE = 3/19/2018



USER NAME = skm	DESIGNED - SKM	REVISED -
ESCA PROJECT 1259.08	DRAWN - SKM	REVISED -
PLOT SCALE = 40.0000' / in.	CHECKED - ELH	REVISED -
PLOT DATE = 3/19/2018	DATE - 03/18	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

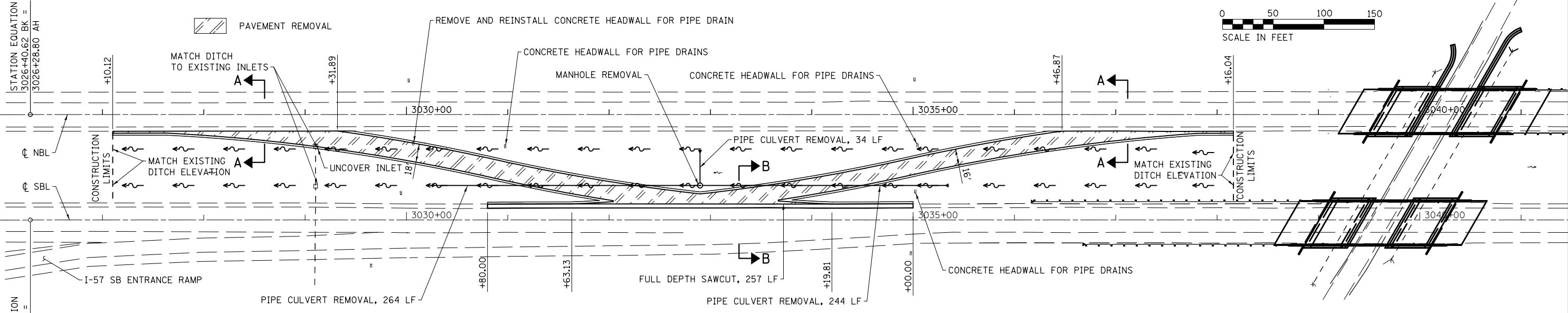
REMOVAL PLANS

SCALE: 1"=20' SHEET NO. 3 OF 3 SHEETS STA. 3043+00 TO STA. 3049+00

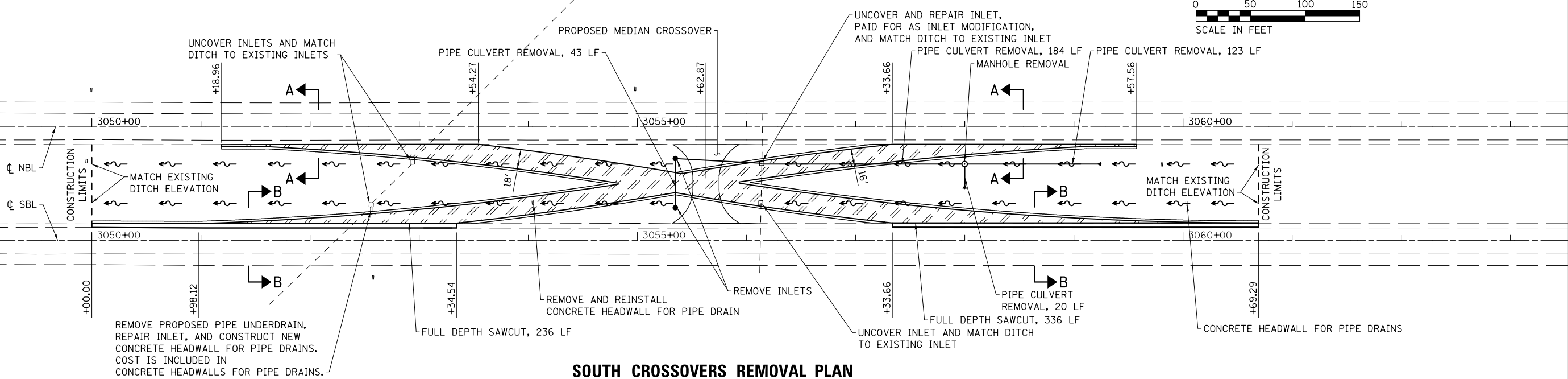
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	(91-4)B-1	UNION	160	56
CONTRACT NO. 78522				
ILLINOIS FED. AID PROJECT				

LEGEND

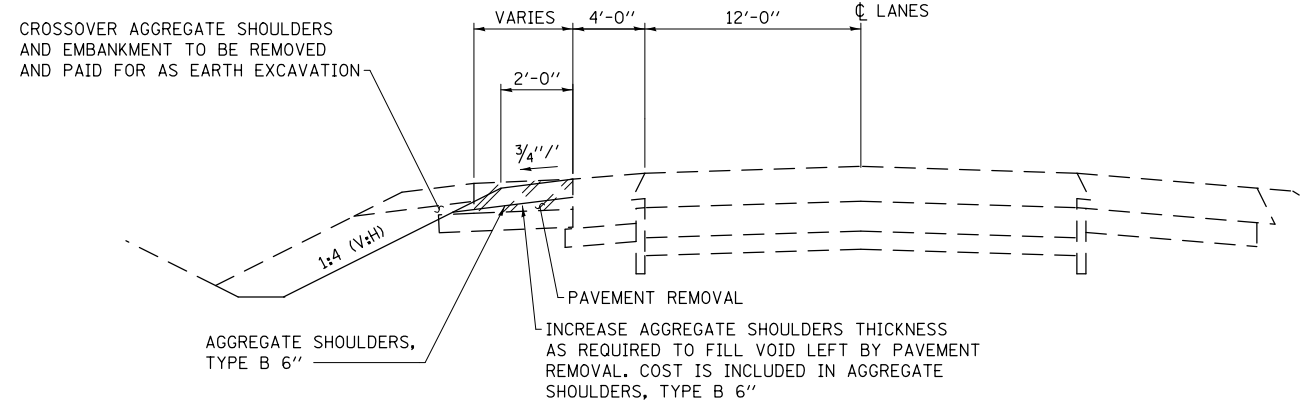
PAVEMENT REMOVAL



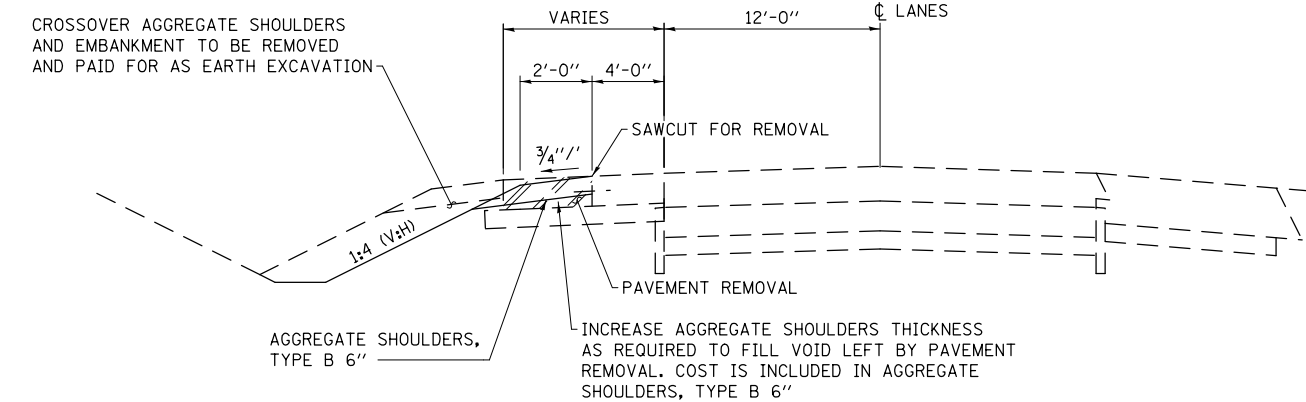
NORTH CROSSOVERS REMOVAL PLAN



SOUTH CROSSOVERS REMOVAL PLAN



SECTION A-A



SECTION B-B

PRINT DRIVER = L:\05-EB\Bates\p9
 SCALE NAME = 1:1000
 FILE NAME = 030222-001-000.dwg



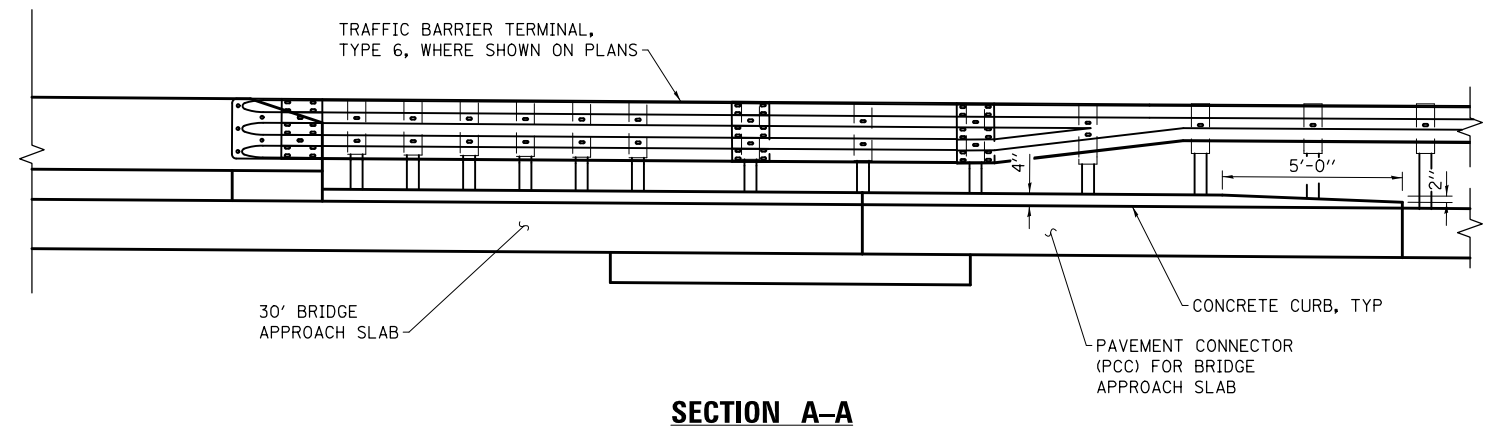
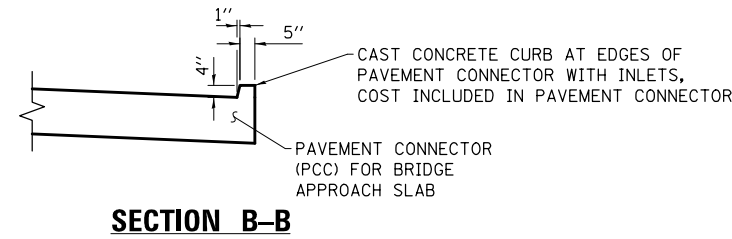
USER NAME = SKM	DESIGNED - SKM	REVISED -
ESCA PROJECT NO. 1259.08	DRAWN - SKM	REVISED -
PLOT SCALE = 0.2" = 1' = 1/8"	CHECKED - ELH	REVISED -
PLOT DATE = 3/19/2018 12:57:52 PM	DATE - 03/18	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

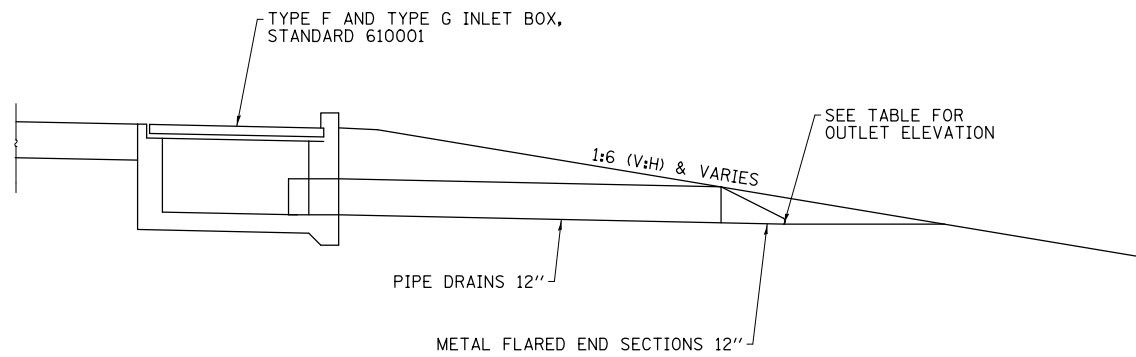
**CROSSOVERS
REMOVAL PLANS**

SCALE: 1"=50'-0" SHEET NO. 1 OF 1 SHEETS STA. 3026+00.00 TO STA. 3063+00.00

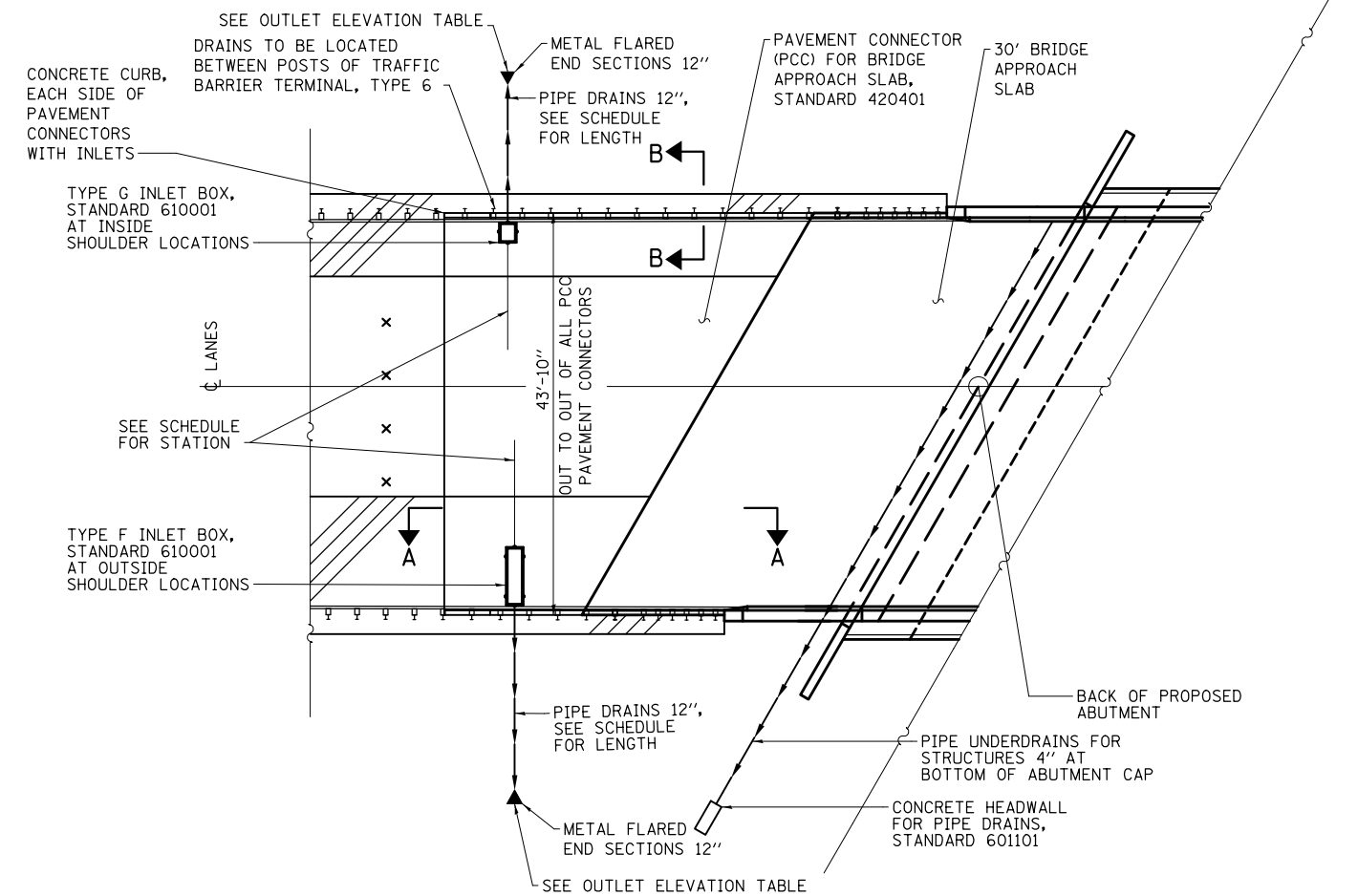
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	(91-4)B-1	UNION	160	57
CONTRACT NO. 78522				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				



SECTION A-A



SECTION AT TYPE F AND TYPE G INLET BOX



PLAN

(NORTH ABUTMENT OF SOUTHBOUND SN 091-0076 SHOWN; OTHER LOCATIONS SIMILAR)

PCC PAVEMENT CONNECTOR DRAINAGE SCHEDULE							
LOCATION			INLET BOX, STD. 610001		CONCRETE THRUST BLOCKS	PIPE DRAINS 12"	METAL FLARED END SECTIONS 12"
			TYPE G	TYPE F			
STATION	LANE	OFFSET	EACH	EACH	EACH	FOOT	EACH
3038+48.15	SBL	LEFT	1			14	1
3038+48.90	SBL	RIGHT		1	1	10	1
3039+12.23	NBL	LEFT		1	1	20	1
3039+12.23	NBL	RIGHT	1			16	1
TOTALS			2	2	2	60	4

OUTLET ELEVATION TABLE			
LOCATION			OUTLET ELEVATION
STATION	LANE	OFFSET	
3038+48.15	SBL	LEFT	418.50
3038+48.90	SBL	RIGHT	417.35
3039+12.23	NBL	LEFT	418.15
3039+12.23	NBL	RIGHT	418.35

PRINT DRIVER = L:\05-2018\091-0076\091-0076.dwg
 USER NAME = L:\05-2018\091-0076\091-0076.dwg
 PLOT DATE = 3/19/2018



USER NAME = skm
 ESCA PROJECT NO. 1259.08
 PLOT SCALE = 0.1667' / 1"

DESIGNED - SKM
 DRAWN - SKM
 CHECKED - ELH
 DATE - 12/17

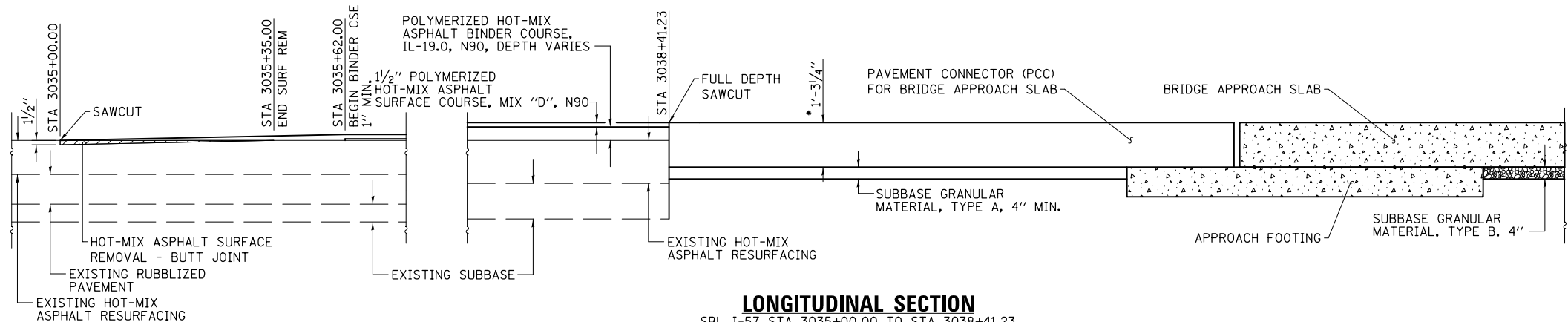
REVISED -
 REVISED -
 REVISED -
 REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

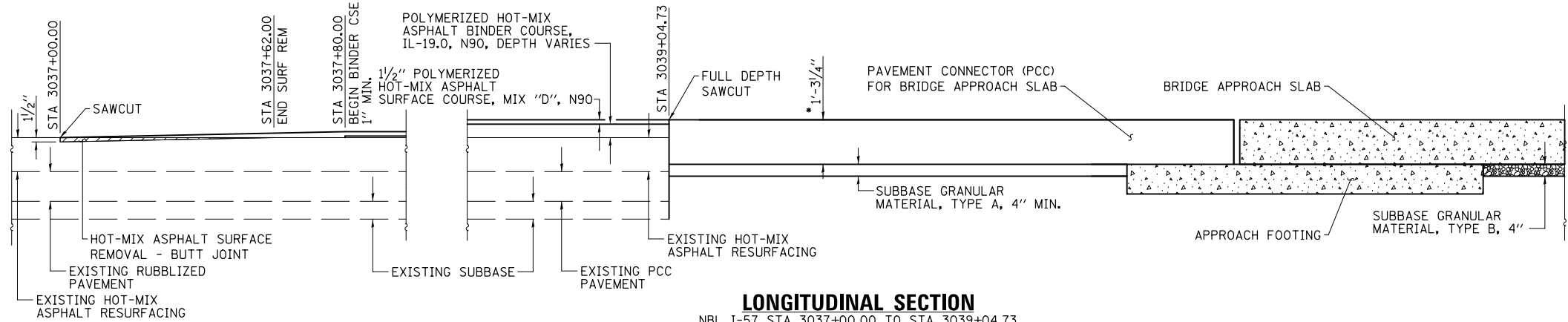
PAVEMENT CONNECTOR DETAILS

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

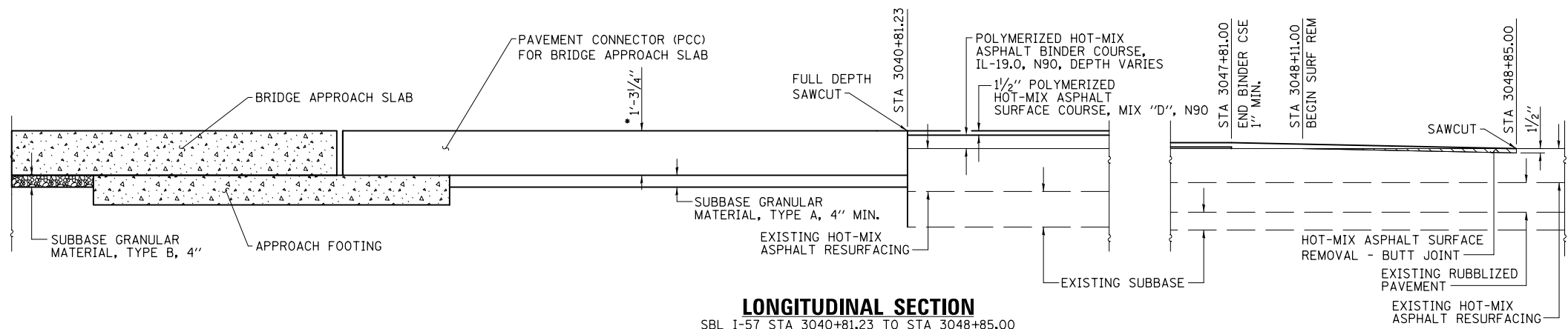
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	(91-4)B-1	UNION	160	58
CONTRACT NO. 78522				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				



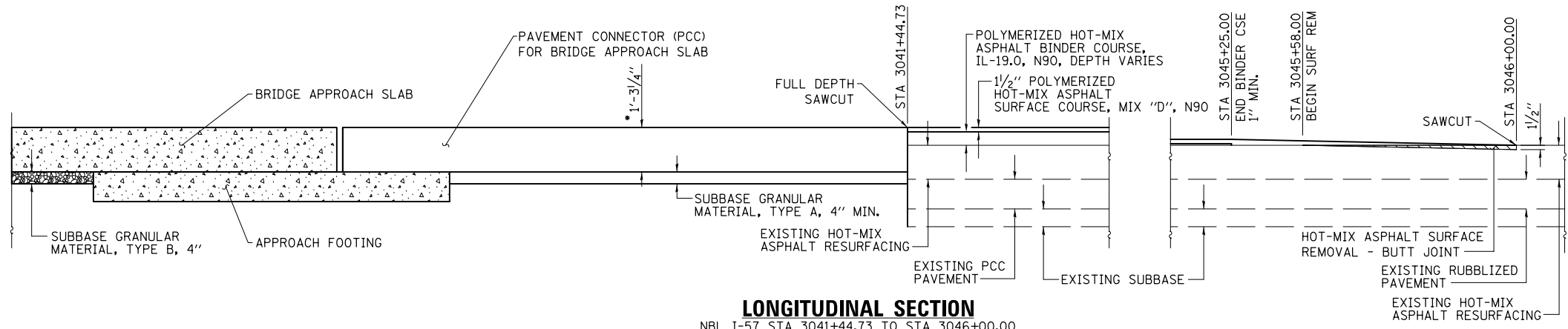
LONGITUDINAL SECTION
SBL I-57 STA 3035+00.00 TO STA 3038+41.23



LONGITUDINAL SECTION
NBL I-57 STA 3037+00.00 TO STA 3039+04.73



LONGITUDINAL SECTION
SBL I-57 STA 3040+81.23 TO STA 3048+85.00



LONGITUDINAL SECTION
NBL I-57 STA 3041+44.73 TO STA 3046+00.00

• PRIOR TO GRINDING

PRINT DRIVER = L:\05-EB\Bates\p9
 SCALE NAME = PLOT
 FILE NAME = 031922-wt-04.mxd.dwg



USER NAME = SKM
 ESCA PROJECT NO. 1259.08
 PLOT SCALE = 0.1667' / 1" = 1/6"
 PLOT DATE = 3/19/2018

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

REVISED -
 REVISED -
 REVISED -
 REVISED -

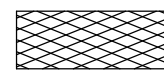
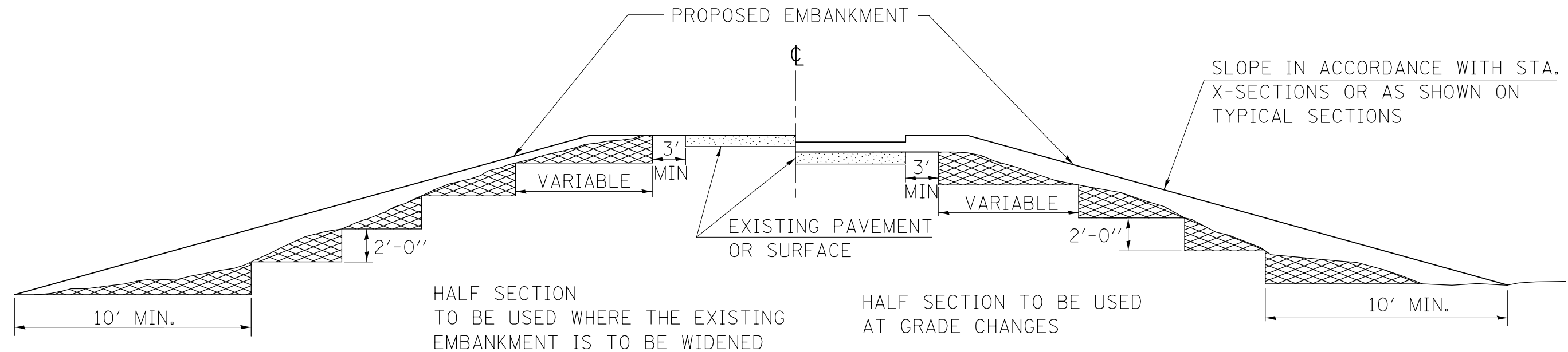
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PAVEMENT TRANSITION DETAILS

SCALE: NONE SHEET NO. 1 OF 1 SHEETS STA. 3035+00 TO STA. 3048+85

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	(91-4)B-1	UNION	160	59
CONTRACT NO. 78522				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

TYPICAL CROSS SECTION SHOWING STEP CONSTRUCTION ON EXISTING FILL



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

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

STD. 9-16

PRINT DRIVER = L:\E-Books\109
 USER NAME = PLT
 PLOT DATE = 3/19/2018



USER NAME = SKM
 ESCA PROJECT NO. 1259.08
 PLOT SCALE = 0.1667' / 1"

DESIGNED - ELH
 DRAWN - KAH
 CHECKED - RDP
 DATE - 09/17

REVISED -
 REVISED -
 REVISED -
 REVISED -

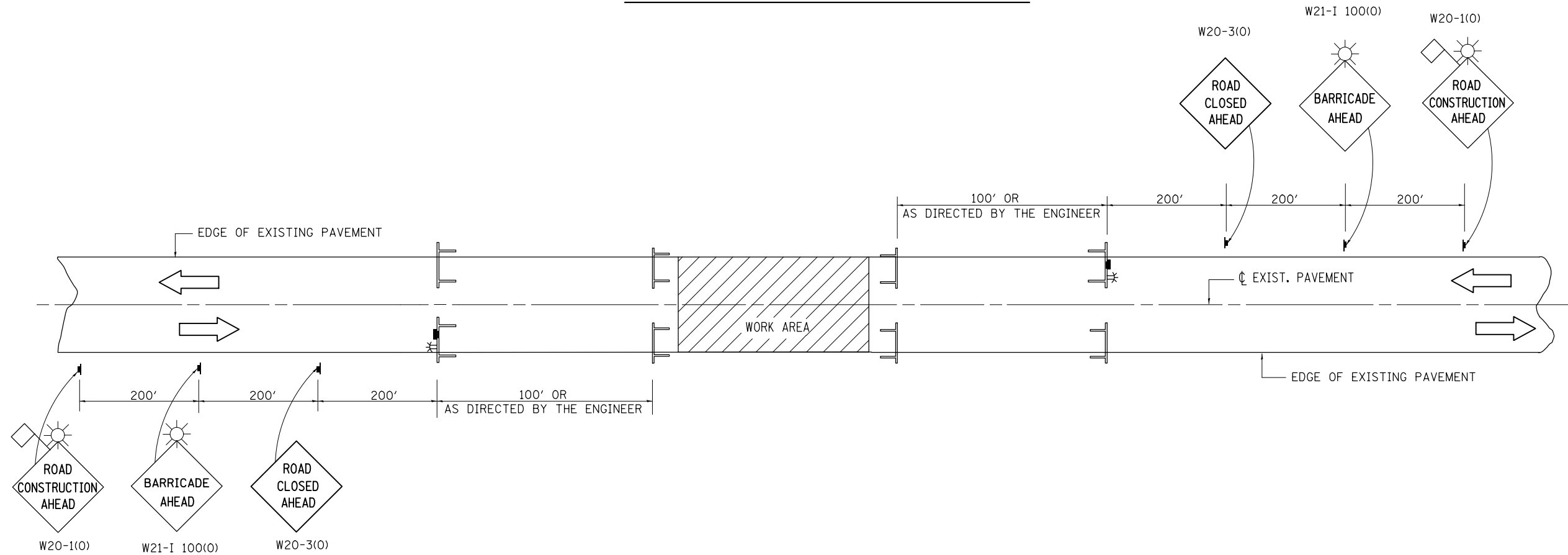
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

STEP CONSTRUCTION ON EXISTING FILL DETAILS

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

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	(91-4)B-1	UNION	160	61
CONTRACT NO. 78522				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

TYPICAL APPLICATION OF TRAFFIC CONTROL DEVICES FOR BRIDGE OR ROAD CLOSURE









GENERAL NOTES

- FLASHING BEACONS SHALL BE INSTALLED ABOVE THE TYPE III BARRICADES AT THE LOCATIONS SHOWN ABOVE. THE BEACONS SHALL BE ATTACHED 18 TO 24 INCHES ABOVE THE BARRICADES IN ALIGNMENT WITH TRAFFIC APPROACHING FROM EACH DIRECTION.
- EACH BEACON SHALL HAVE A YELLOW LENS WITH A NOMINAL DIAMETER OF 8 INCHES, A PARABOLIC REFLECTOR, AN AC POWERED CLEAR LAMP WITH A MINIMUM RATING OF 64 WATTS, AND A CONTROLLER WHICH IS SET TO PROVIDE BETWEEN 50 AND 60 FLASHES PER MINUTE WITH EQUAL ON AND OFF INTERVALS. THE BEACONS WILL BE KEPT BURNING 24 HOURS PER DAY.
- THE CONTROLLER SHALL BE HOUSED IN A WEATHERPROOF CABINET AND MOUNTED ON A POST OR POLE. THE ELECTRICAL CABLE MUST EITHER BE AERIALY SUSPENDED, OR BURIED WITH A MINIMUM OF 2 INCHES OF COVER.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR ARRANGEMENTS AND COST OF 110 VOLT ELECTRICAL SERVICE.
- THE ENGINEER MAY REQUIRE THAT DRUMS, EITHER 55 GALLON OR 30 GALLON, BE USED TO SUPPLEMENT THE BARRICADES IF THE CLOSURE TIME EXCEEDS FOUR DAYS.
- ALL SIGNS SHALL BE POST MOUNTED IF THE CLOSURE TIME EXCEEDS FOUR DAYS.

- FLASHING LIGHTS SHALL BE USED ON EACH APPROACH IN ADVANCE OF THE WORK AREA DURING HOURS OF DARKNESS. THESE LIGHTS SHALL BE INSTALLED ABOVE THE FIRST TWO SIGNS IN EACH SERIES.
- WHEN A SIDE ROAD INTERSECTS THE HIGHWAY ON WHICH WORK IS BEING PERFORMED, ADDITIONAL TRAFFIC CONTROL DEVICES SHALL BE ERECTED AS DIRECTED BY THE ENGINEER.
- LONGITUDINAL DIMENSIONS MAY BE ADJUSTED SLIGHTLY TO FIT FIELD CONDITIONS.
- ALL WARNING SIGNS SHALL HAVE MINIMUM DIMENSIONS OF 48 IN. BY 48 IN. AND SHALL HAVE A BLACK LEGEND AND BORDER ON AN ORANGE REFLECTORIZED BACKGROUND.
- FORMS BT 725 AND 726 ARE REQUIRED.
- ALL ITEMS NECESSARY TO COMPLETE THIS DETAIL SHALL BE INCLUDED IN THE LUMP SUM AMOUNT FOR TRAFFIC CONTROL AND PROTECTION, (SPECIAL).
- TYPE III BARRICADES AND R11-2 SIGNS SHALL BE POSITIONED AS SHOWN IN "ROAD CLOSED TO ALL TRAFFIC" DETAIL ON HIGHWAY STANDARD 701901.

SYMBOLS

-  WORK AREA
-  SIGN WITH 18 IN. BY 18 IN. (MINIMUM) ORANGE FLAG ATTACHED
-  SIGN ON PORTABLE OR PERMANENT SUPPORT
-  TYPE III BARRICADE
-  TYPE III BARRICADE WITH FLASHING BEACON AND "ROAD CLOSED" SIGN STD. R11-2
-  FLASHING BEACON

PRINT DRIVER = L:\05-EB\Bates\p9
 SCALE NAME = 1/16" = 1' PLOT
 FILE NAME = 20180222-ent-10-10-18.dwg



USER NAME = SKM	DESIGNED - SKM	REVISED -
ESCA PROJECT NO. 1259.08	DRAWN - SKM	REVISED -
PLOT SCALE = 0.167' / in.	CHECKED - ELH	REVISED -
PLOT DATE = 3/19/2018	DATE - 11/17	REVISED -

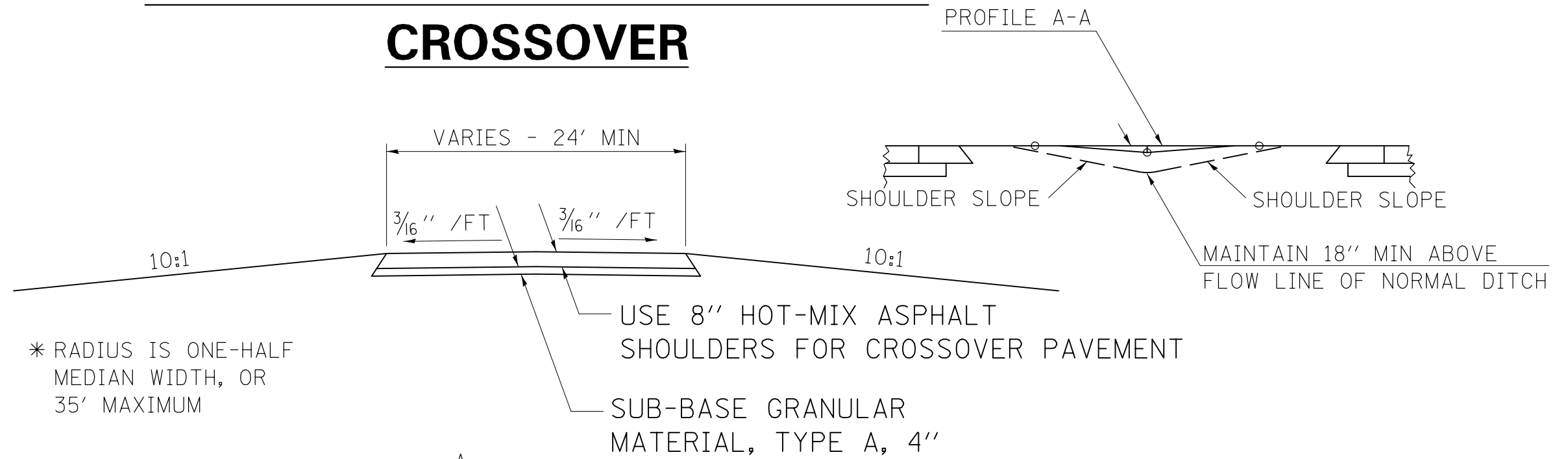
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

BRIDGE OR ROAD CLOSURE DETAILS

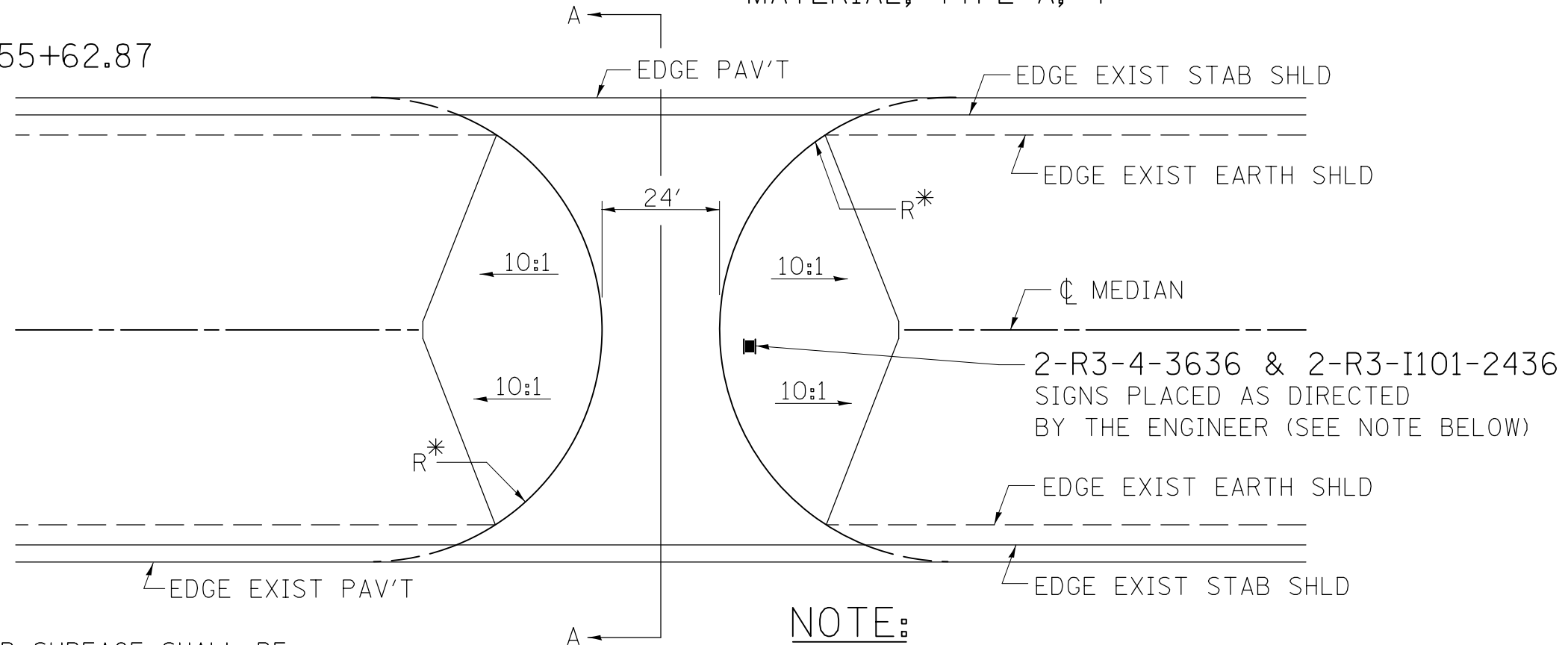
SCALE: NONE SHEET NO. 1 OF 1 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	(91-4)B-1	UNION	160	62
CONTRACT NO. 78522				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

DETAIL OF PROPOSED MEDIAN CROSSOVER



TO BE USED: STA 3055+62.87



NOTE:

THE PROPOSED CROSSOVER SURFACE SHALL BE BUTTED TO THE EDGE OF THE EXISTING STABILIZED SHOULDER. SEE SHEET NO. 18 FOR EARTHWORK SCHEDULE. EARTHWORK SHALL BE COMPACTED TO THE SATISFACTION OF THE ENGINEER.

NOTE:

THE SIGN ASSEMBLY FOR EACH LOCATION SHALL BE PAID FOR AT THE CONTRACT UNIT PRICE EACH FOR "RELOCATE SIGN PANEL ASSEMBLY-TYPE B" EXISTING SIGN SUPPORTS SHALL BE USED FOR NEW INSTALLATION.

REVISIONS	
DRAWN	8-30-89
REVISED	01-10-07
REVISED	3-26-08
REVISED	

STD. 9-55

PRINT DRIVER = L:\E-Books\1019
 SCALE NAME = PLOT
 FILE NAME = 010222-111-1111111111.dwg



USER NAME = SKM	DESIGNED - ELH	REVISED -
ESCA PROJECT NO. 1259.08	DRAWN - SKM	REVISED -
PLOT SCALE = 0.167' / in.	CHECKED - RDP	REVISED -
PLOT DATE = 3/19/2018	DATE - 10/17	REVISED -

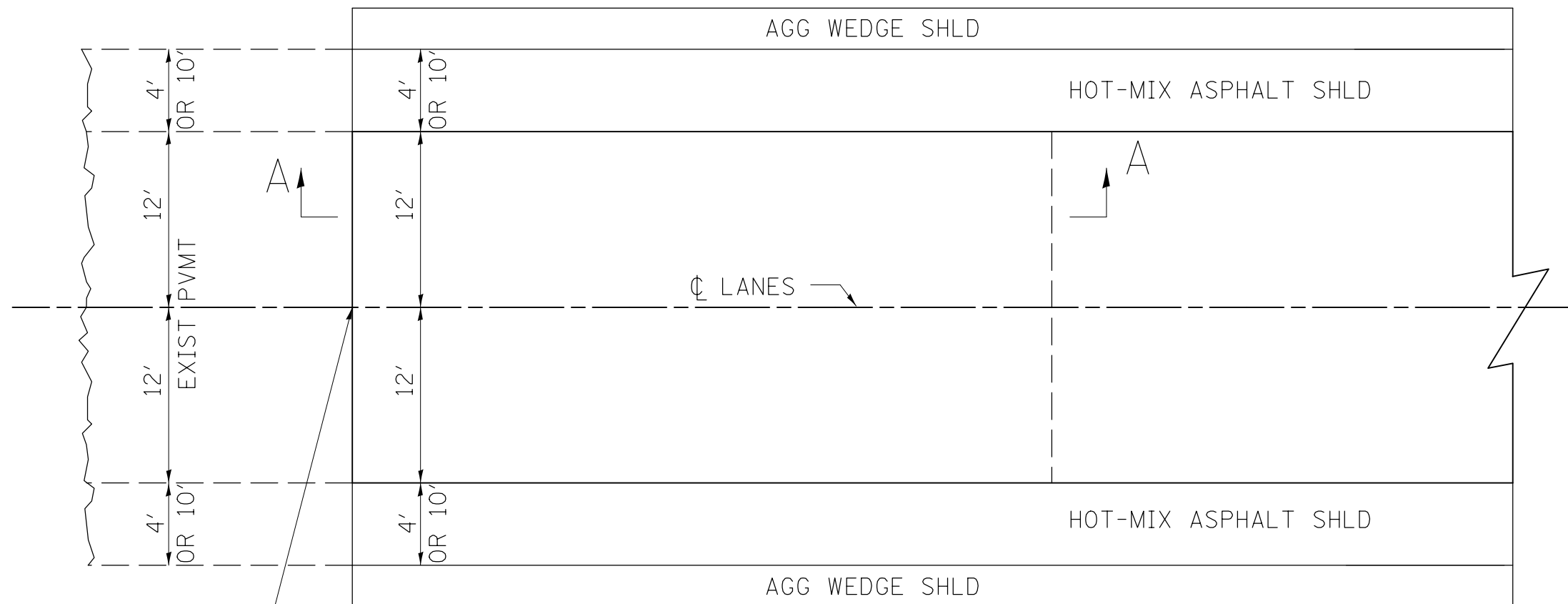
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

PROPOSED MEDIAN CROSSOVER DETAILS

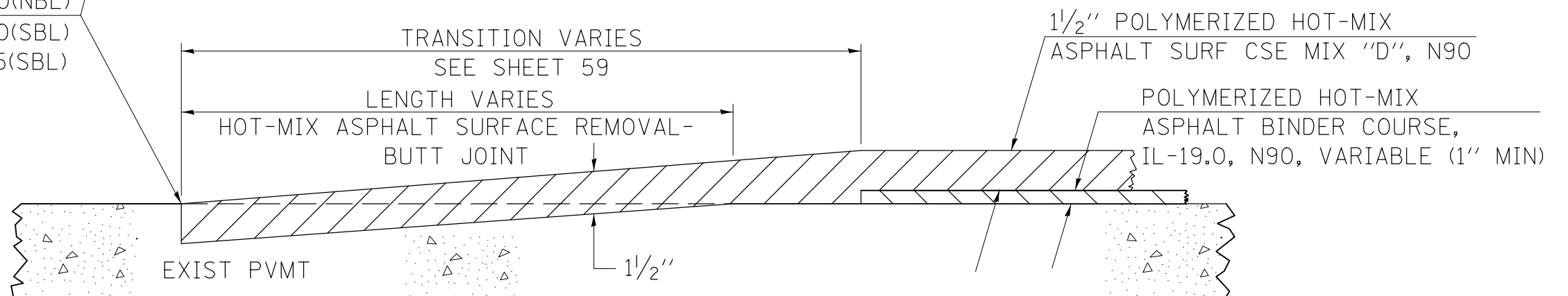
SCALE: NONE SHEET NO. 1 OF 1 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	(91-4)B-1	UNION	160	63
CONTRACT NO. 78522				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

BUTT JOINT



STA 3037+00(NBL)
 STA 3046+00(NBL)
 STA 3035+00(SBL)
 STA 3048+85(SBL)



SECTION A-A

PRINT DRIVER = L:\E-Books\1019
 SCALE NAME = PLOT
 FILE NAME = 101922-1019.ctb



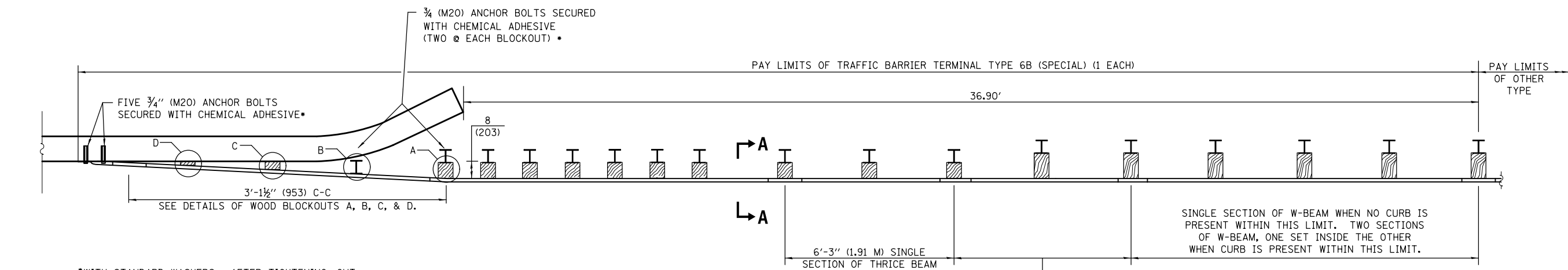
USER NAME = SKM	DESIGNED - SKM	REVISED -
ESCA PROJECT NO. 1259.08	DRAWN - SKM	REVISED -
PLOT SCALE = 0.167' / in.	CHECKED - ELH	REVISED -
PLOT DATE = 3/19/2018	DATE - 03/18	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BUTT JOINT DETAILS

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

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	(91-4)B-1	UNION	160	64
CONTRACT NO. 78522				
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		



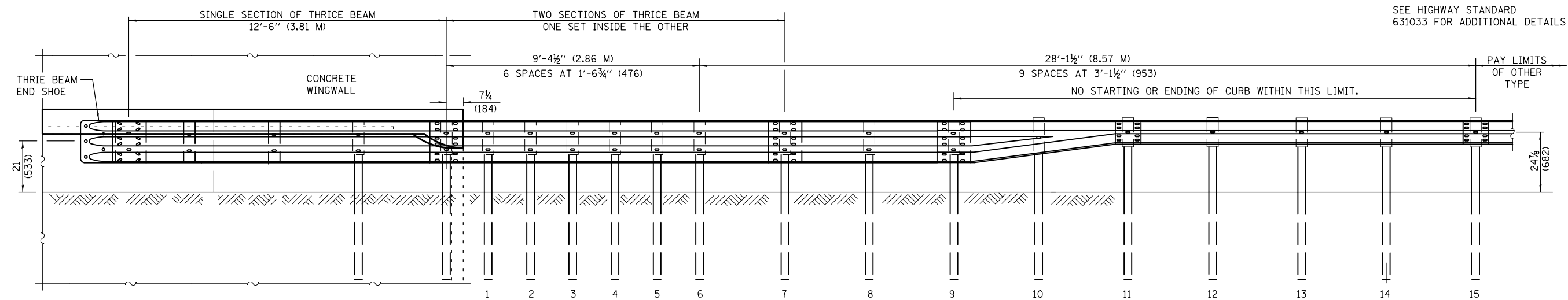
*WITH STANDARD WASHERS. AFTER TIGHTENING, CUT THE ANCHOR BOLTS FLUSH WITH THE NUTS AND DAMAGE THE NUTS TO PREVENT THEM FROM LOOSENING.

6'-3" (1.91 M) SINGLE SECTION OF THRIE BEAM

SINGLE SECTION OF W-BEAM WHEN NO CURB IS PRESENT WITHIN THIS LIMIT. TWO SECTIONS OF W-BEAM, ONE SET INSIDE THE OTHER WHEN CURB IS PRESENT WITHIN THIS LIMIT.

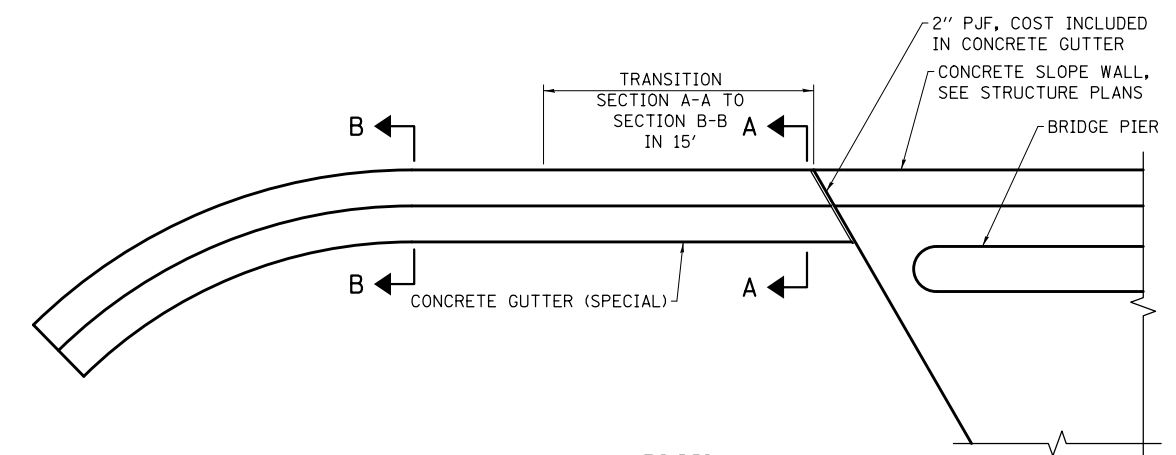
PLAN

TRANSITION SECTION (SEE DETAIL) INCLUDED IN TRAFFIC BARRIER TERMINAL TYPE 6

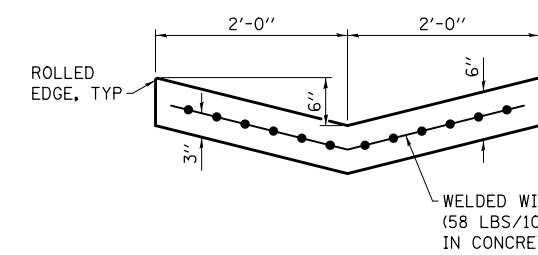


ELEVATION

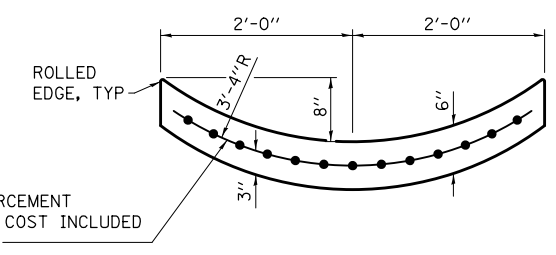
TRAFFIC BARRIER TERMINAL, TYPE 6B (SPECIAL)



PLAN
NORTH GUTTER SHOWN; SOUTH GUTTER SIMILAR



SECTION A-A



SECTION B-B

CONCRETE GUTTER (SPECIAL)

PRINT DRIVER = L:\0-EB\Bates\p9
 PLOT DATE = 3/19/2018
 PLOT SCALE = 0.1667' / 1"



USER NAME = SKM
 ESCA PROJECT NO. 1259.08
 PLOT SCALE = 0.1667' / 1"
 PLOT DATE = 3/19/2018

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

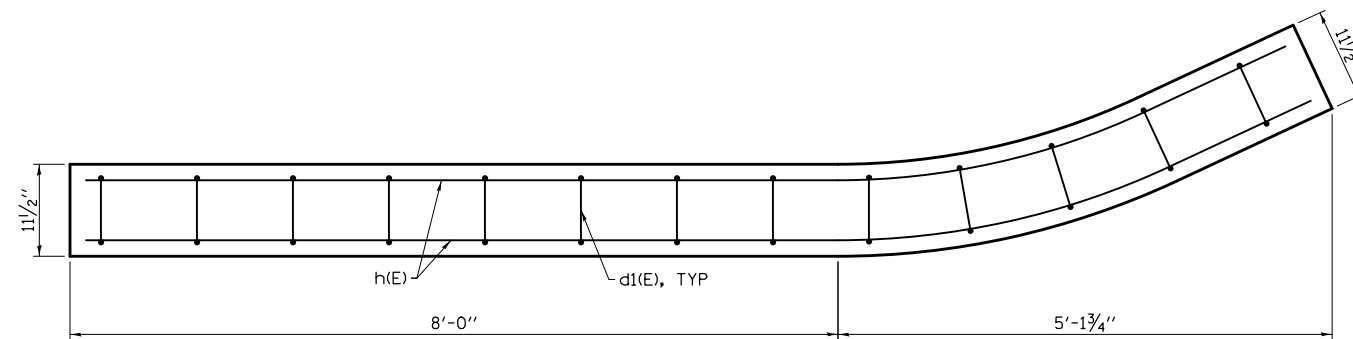
REVISED -
 REVISED -
 REVISED -
 REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

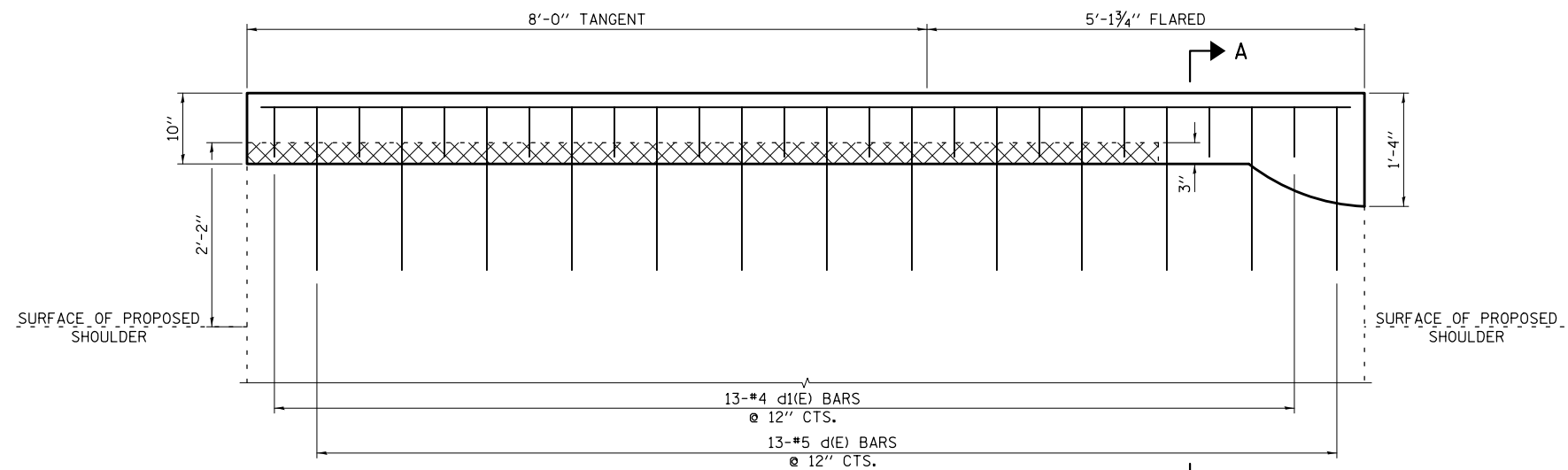
ROADWAY DETAILS

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

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	(91-4)B-1	UNION	160	65
CONTRACT NO. 78522				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

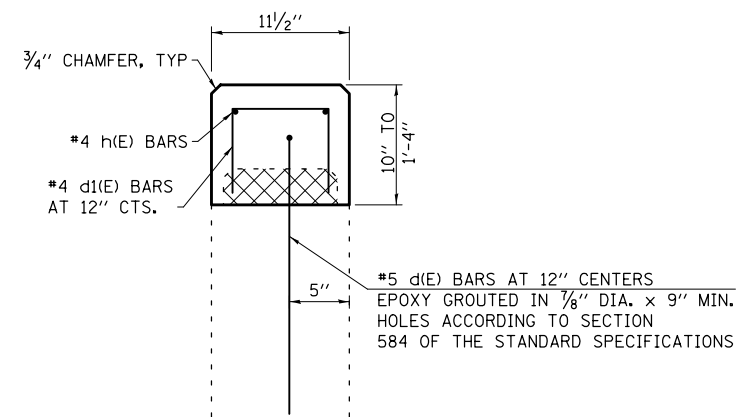
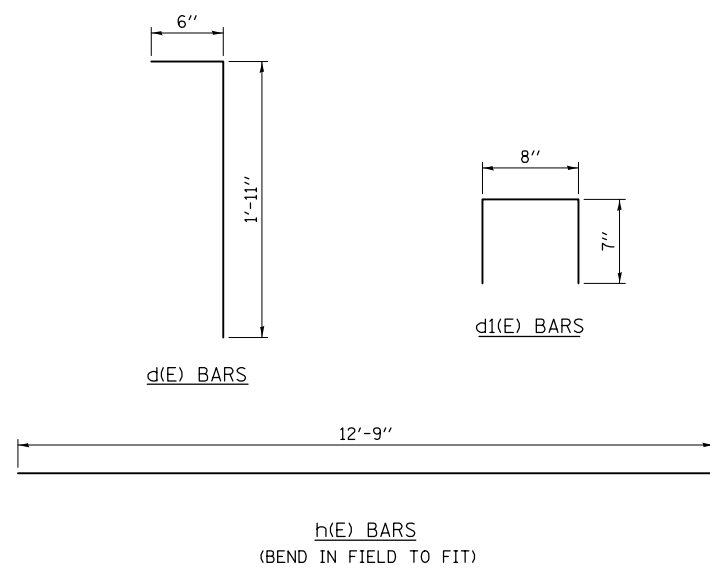


PLAN



ELEVATION

CONCRETE REMOVAL



SECTION A-A

BILL OF MATERIAL

BAR	NO.	SIZE	LENGTH	SHAPE
d(E)	13	5	2'-5"	
d1(E)	13	4	1'-10"	
h(E)	2	4	12'-9"	
CONCRETE REMOVAL		CU YD		.1
CONCRETE SUPERSTRUCTURE		CU YD		.4
REINFORCEMENT BARS		POUND		66

NORTHWEST WINGWALL EXTENSION ON SN091-0001

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROADWAY DETAILS

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

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	(91-4)B-1	UNION	160	66
CONTRACT NO. 78522				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

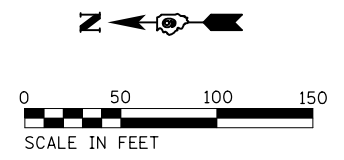
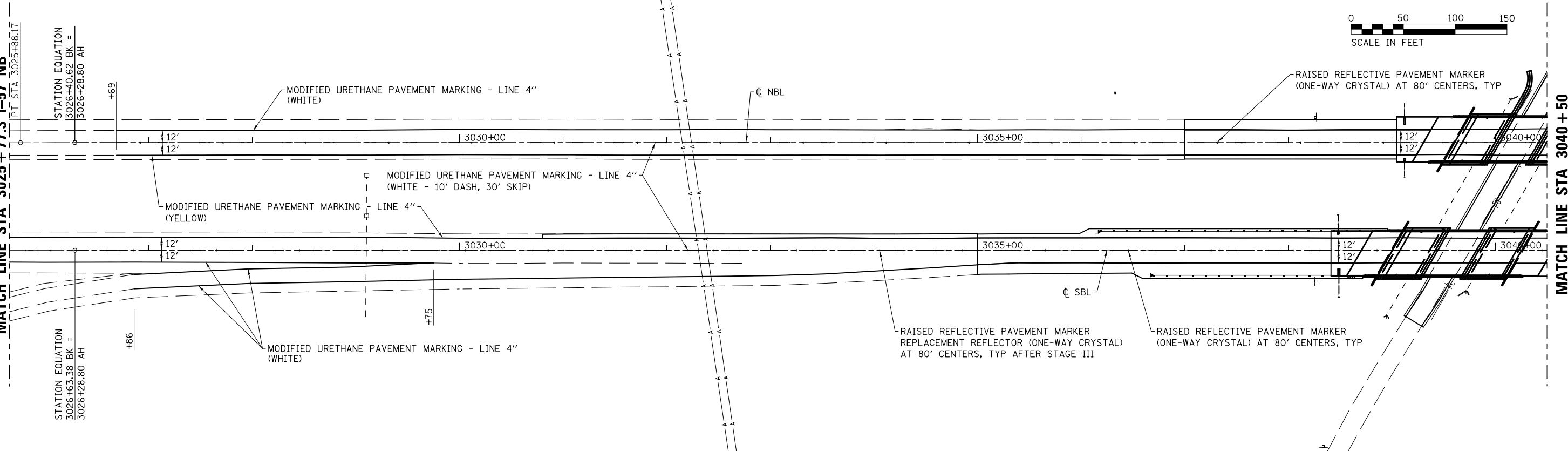
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FILE NAME = 010222-ent-041019.dwg



USER NAME = SKM	DESIGNED - ELH	REVISED -
ESCA PROJECT NO. 1259.08	DRAWN - KAH	REVISED -
PLOT SCALE = 0.1667' / 1"	CHECKED - ELH	REVISED -
PLOT DATE = 3/19/2018	DATE - 12/17	REVISED -

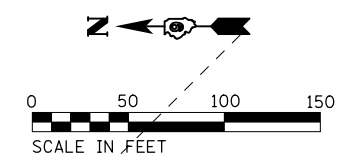
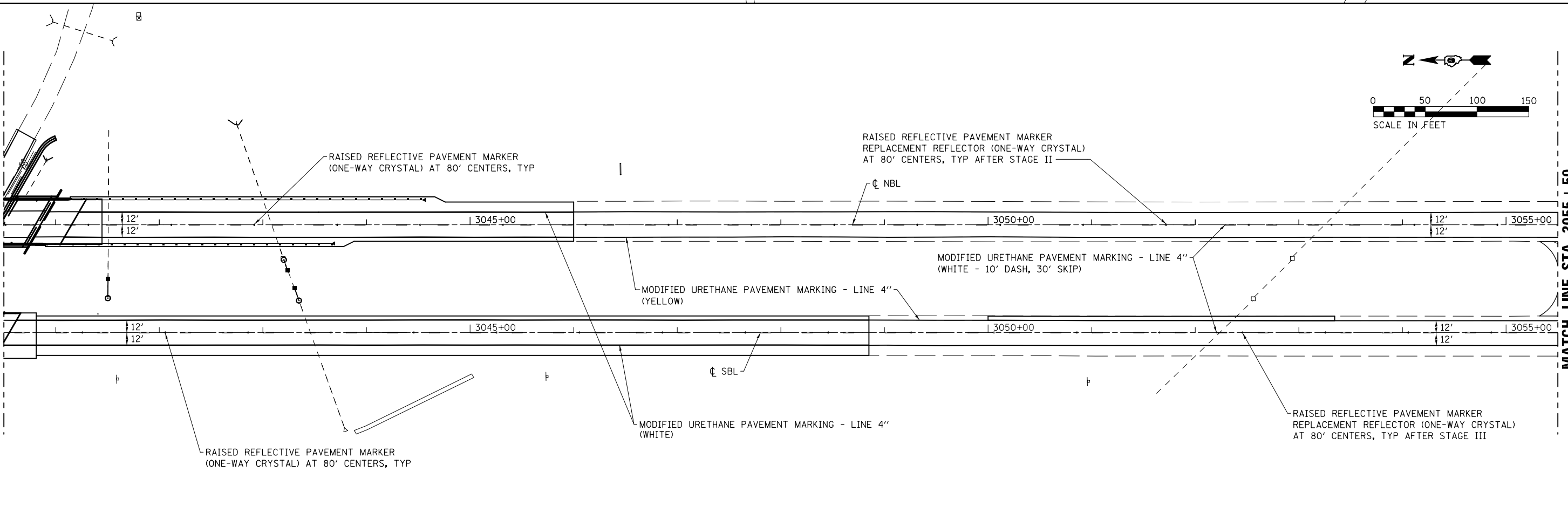
SEE SHEET 67 FOR CONT.

MATCH LINE STA 3026+00 I-57 SB
MATCH LINE STA 3025+77.3 I-57 NB



MATCH LINE STA 3040+50

MATCH LINE STA 3040+50



MATCH LINE STA 3055+50
SEE SHEET 69 FOR CONT.

PRINT DRIVER = L:\0-EB\Bates\9
SCALE NAME = PLOT
SCALE NAME = 0.1667=1/16
DATE = 3/19/2018



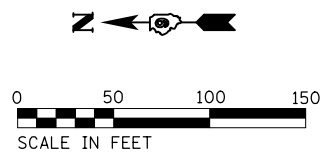
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PLOT DATE = 3/19/2018	DATE - 03/18	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

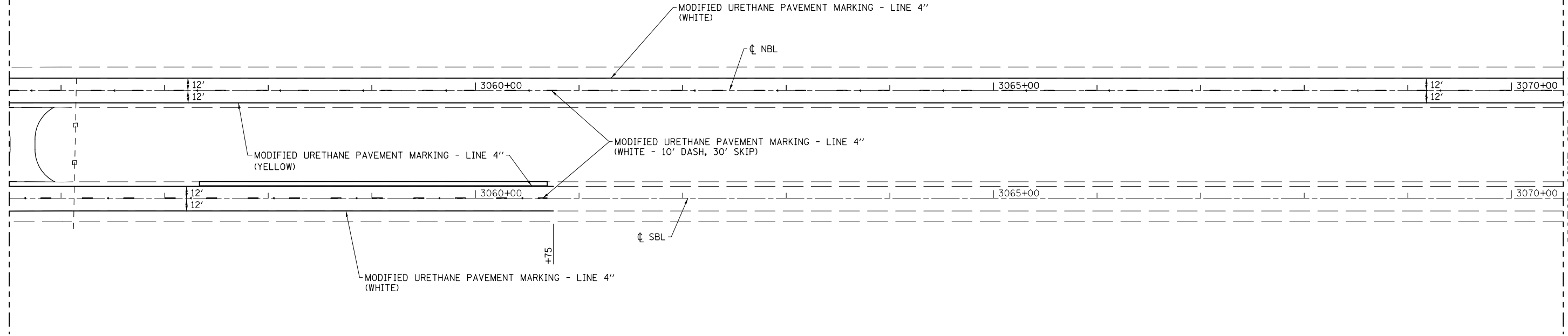
PAVEMENT MARKING PLANS

SCALE: 1"=50' SHEET NO. 2 OF 3 SHEETS STA. 3026+00 TO STA. 3055+50

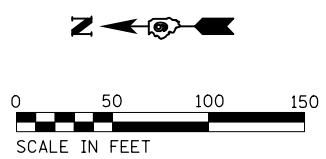
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57	(91-4)B-1	UNION	160	68
CONTRACT NO. 78522				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				



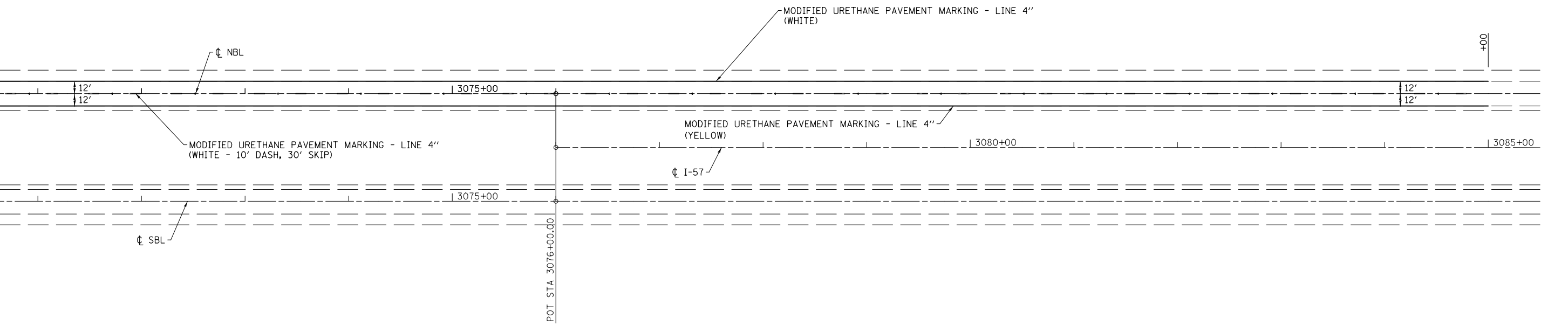
SEE SHEET 68 FOR CONT.
MATCH LINE STA 3055 +50



MATCH LINE STA 3070 +50



MATCH LINE STA 3070 +50



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PLOT DATE = 3/19/2018	DATE - 03/18	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

PAVEMENT MARKING PLANS

SCALE: 1"=50' SHEET NO. 3 OF 3 SHEETS STA. 3055+50 TO STA. 3085+50

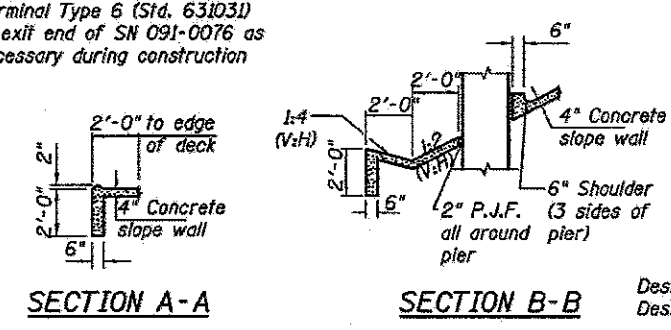
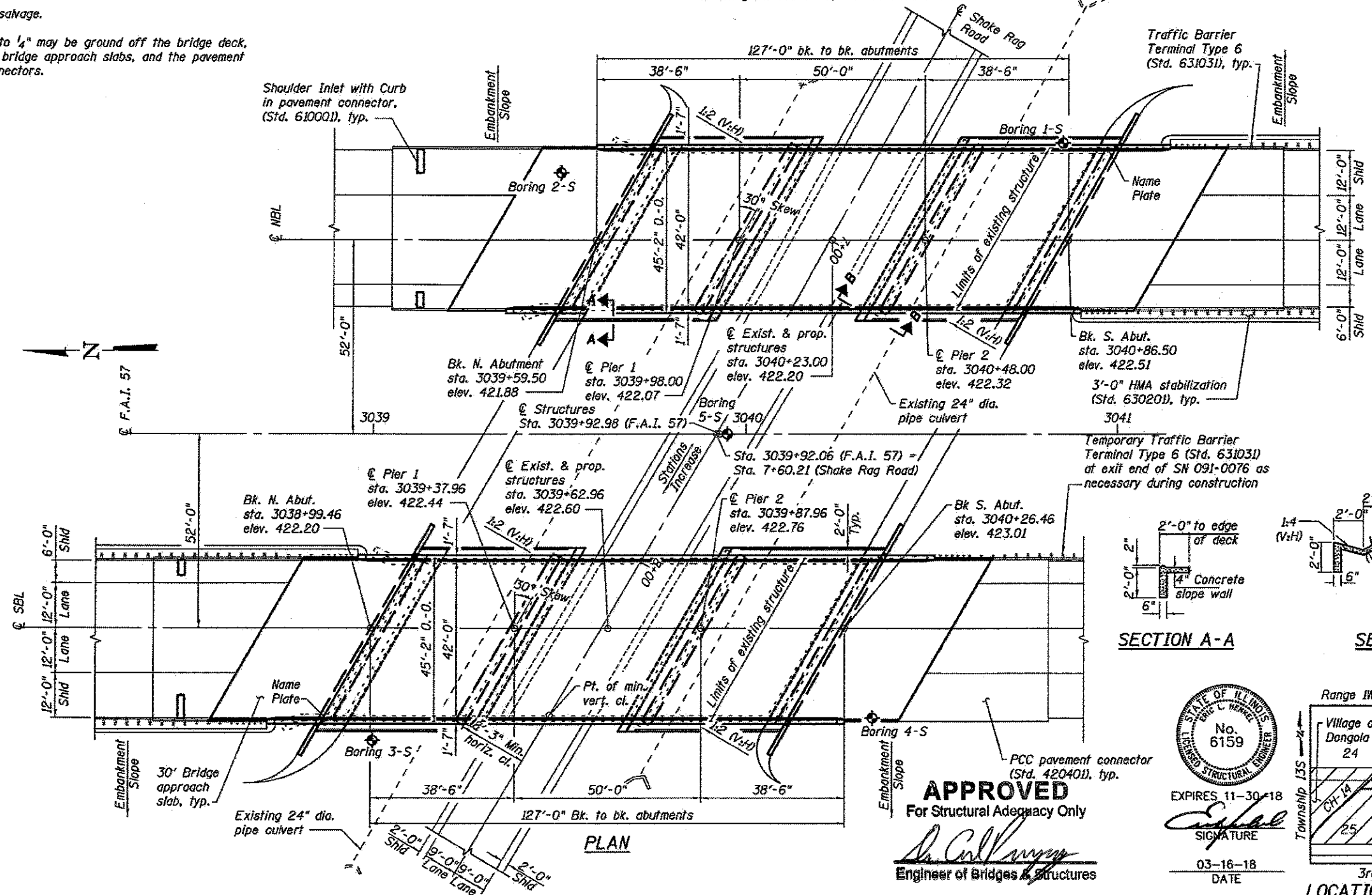
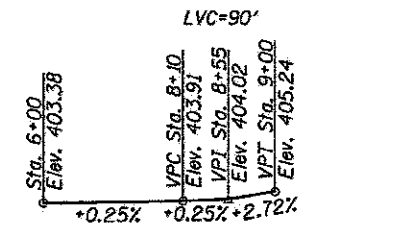
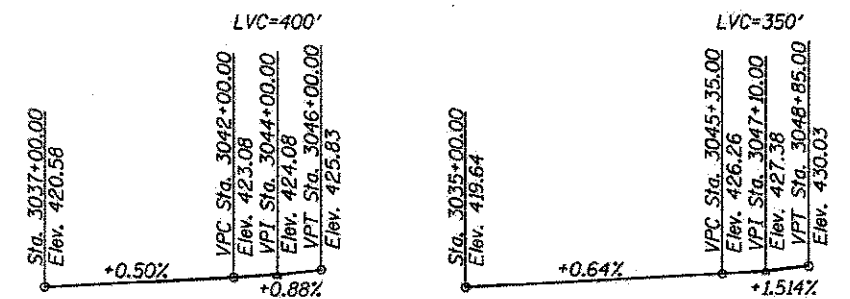
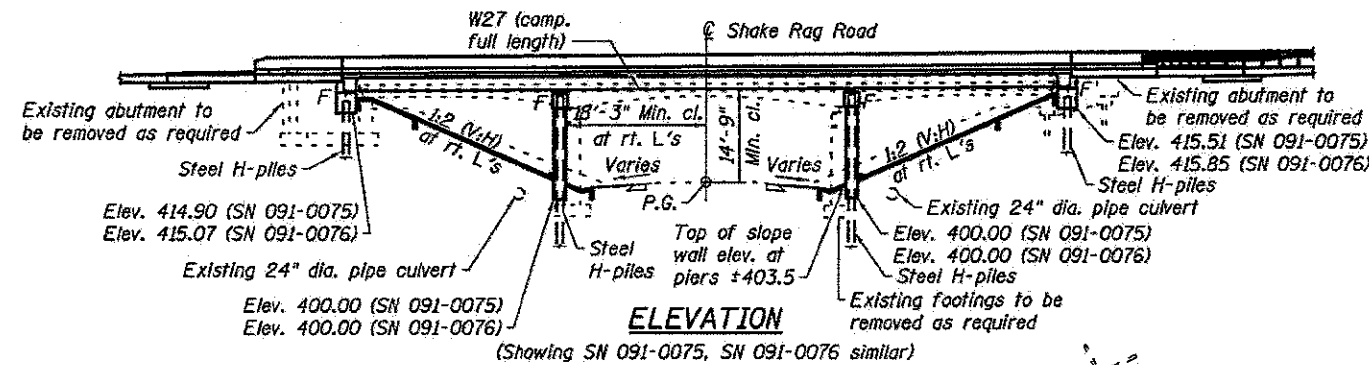
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57	(91-4)B-1	UNION	160	69
CONTRACT NO. 78522				
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

BENCHMARK: CY1 - Chiseled square on the west parapet wall, NW corner of SN 091-0002. NE corner of approach parapet. Sta. 3038+77. 77.5' RT. Elev. 423.17

EXISTING STRUCTURES: SN 091-0001 and SN 091-0002 were originally built in 1957 as F.A.I. 57, Section 91-4HB-2. The three-span structures consist of concrete decks, each supported by seven haunched concrete T-beams. The concrete spans are supported by concrete wall piers and open abutments. The piers and north abutments are supported on spread footings. The south abutments are supported on steel piles. Back to back abutments is 121'-2". The superstructure width is 40'-6" between parapets. The skew is 30°. Interstate traffic shall be maintained utilizing crossovers. Shake Rag Road shall be closed as necessary.

No salvage.

Up to 1/4" may be ground off the bridge deck, the bridge approach slabs, and the pavement connectors.



DESIGN SPECIFICATIONS

2014 AASHTO LRFD Bridge Design Specifications 7th Edition with 2015 and 2016 Interims

DESIGN STRESSES FIELD UNITS

f'c = 3,500 psi (substructure)
f'c = 4,000 psi (superstructure)
fy = 50,000 psi (AASHTO M270 Grade 50)
fy = 60,000 psi (reinforcement)

SEISMIC DATA

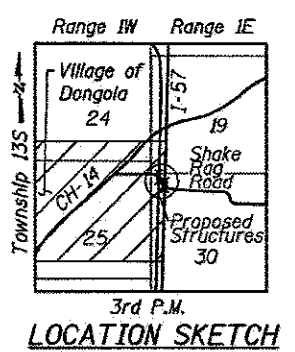
Seismic Performance Zone (SPZ) = 4
Design Spectral Acceleration at 1.0 sec. (S_{D1}) = 0.898g
Design Spectral Acceleration at 0.2 sec. (S_{D2}) = 1.214g
Soil Site Class = E

LOADING HL-93

Allow 50 psf for future wearing surface

GENERAL PLAN & ELEVATION I 57 & US 51 OVER SHAKE RAG ROAD FAI ROUTE 57 SECTION (91-4)B-1

UNION COUNTY
STATION 3039+92.98
STRUCTURE NO. 091-0075 (NB)
STRUCTURE NO. 091-0076 (SB)



APPROVED
For Structural Adequacy Only
[Signature]
Engineer of Bridges & Structures

STATE OF ILLINOIS
No. 6159
EXPIRES 11-30-18
[Signature]
SIGNATURE
03-16-18
DATE



USER NAME = SKM
ESCA PROJECT NO. 1259.88
PLOT SCALE = 1/2" = 1'-0"
PLOT DATE = 3/14/2018 12:58:45 PM

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CHECKED - RDP	11/17	REVISED -	
DRAWN - KAH	11/17	REVISED -	
CHECKED - RTM/ELH	03/18	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	091-4B-1	UNION	160	70
				CONTRACT NO. 78522
ILLINOIS FED. AID PROJECT				

GENERAL NOTES

- Fasteners shall be ASTM A325 Type 1, mechanically galvanized bolts. Bolts 7/8" φ, holes 15/16" φ, unless otherwise noted.
- Calculated weight of Structural Steel = 155,800 lbs. (Grade 50) Calculated weight of Structural Steel = 18,200 lbs. (Grade 36)
- No field welding is permitted except as specified in the contract documents.
- Reinforcement bars designated (E) shall be epoxy coated.
- Bearing seat surfaces shall be constructed or adjusted to the designated elevations within a tolerance of 1/8 in. (0.01 ft.). Adjustment shall be made either by grinding the surface or by shimming the bearings.
- The existing structural steel coating contains lead. The Contractor shall take appropriate precautions to deal with the presence of lead on this project.
- The Inorganic Zinc Rich Primer / Acrylic / Acrylic Paint System shall be used for shop and field painting of new structural steel except where otherwise noted. The color of the final finish coat for all interior steel surfaces shall be gray, Munsell No. 5B 7/1. The color of the final finish coat for the exterior and bottom flange of the fascia beams shall be Interstate Green, Munsell No. 7.5G 4/8.
- The embankment configuration shown shall be the minimum that must be placed and compacted prior to construction of the abutments.
- Slipforming of the parapets is not allowed.
- Removal of SN 091-0001 (NB) will be paid for as Removal of Existing Structures No. 1, and removal of SN 091-0002 (SB) will be paid for as Removal of Existing Structures No. 2.
- The finishing machine rails shall be placed on the top of the top flange of the exterior beams within the deck pour. Beam blocks shall be placed between beams at all tie locations in each bay for the full width of the deck pour.
- Slope wall shall be reinforced with welded wire fabric, 6 in. x 6 in. - W4.0 x W4.0, weighing 58lbs. per 100 sq. ft.
- Quantities of Hot-Mix Asphalt Surface Removal (Deck) and Deck Slab Repair are included to repair 091-0001 prior to allowing two-way traffic over the structure. The entire deck of 091-0001 shall be milled to allow a patching survey and then resurfaced after repairs. Quantities of Deck Slab Repair are included to repair 091-0002 as necessary. See Roadway Plans for quantity and requirements of Hot-Mix Asphalt Surface Course. The quantities used shall be determined by the Engineer.
- The cost of removal of all construction debris is included in Removal of Existing Structures. This includes existing debris from previous deck patching and maintenance operations.

TOTAL BILL OF MATERIAL

ITEM	UNIT	SUPER	SUB	TOTAL
Removal of Existing Structures No. 1	Each			1
Removal of Existing Structures No. 2	Each			1
Structure Excavation	Cu. Yd.		674	674
Concrete Structures	Cu. Yd.	62.6	421.2	483.8
Concrete Superstructure	Cu. Yd.	433.2		433.2
Protective Coat	Sq. Yd.	2,022		2,022
Concrete Superstructure (Approach Slab)	Cu. Yd.	251.6		251.6
Furnishing and Erecting Structural Steel	L Sum	1		1
Stud Shear Connectors	Each	8,862		8,862
Reinforcement Bars, Epoxy Coated	Pound	194,700	47,760	242,460
Slope Wall 4 Inch	Sq. Yd.		934	934
Furnishing Steel Piles HP14x102	Foot		3,839	3,839
Furnishing Steel Piles HP14x89	Foot		3,600	3,600
Driving Piles	Foot		7,439	7,439
Test Pile Steel HP14x102	Each		4	4
Test Pile Steel HP14x89	Each		4	4
Pile Shoes	Each		88	88
Name Plates	Each	2		2
Anchor Bolts, 5/8"	Each	112		112
Geocomposite Wall Drain	Sq. Yd.		124	124
Bridge Deck Grooving (Longitudinal)	Sq. Yd.	1,280		1,280
Granular Backfill for Structures	Cu. Yd.		308	308
Diamond Grinding (Bridge Section)	Sq. Yd.	2,028		2,028
Pipe Underdrains for Structures 4"	Foot		320	320
Hot-Mix Asphalt Surface Removal (Deck)	Sq. Yd.	535		535
Deck Slab Repair (Full Depth, Type I)	Sq. Yd.	10		10
Deck Slab Repair (Full Depth, Type II)	Sq. Yd.	30		30

STATION 3040+23.00
BUILT 201 BY
STATE OF ILLINOIS
F.A.I. RT. 57 SEC. (91-4)B-1
LOADING HL-93
STR. NO. 091-0075

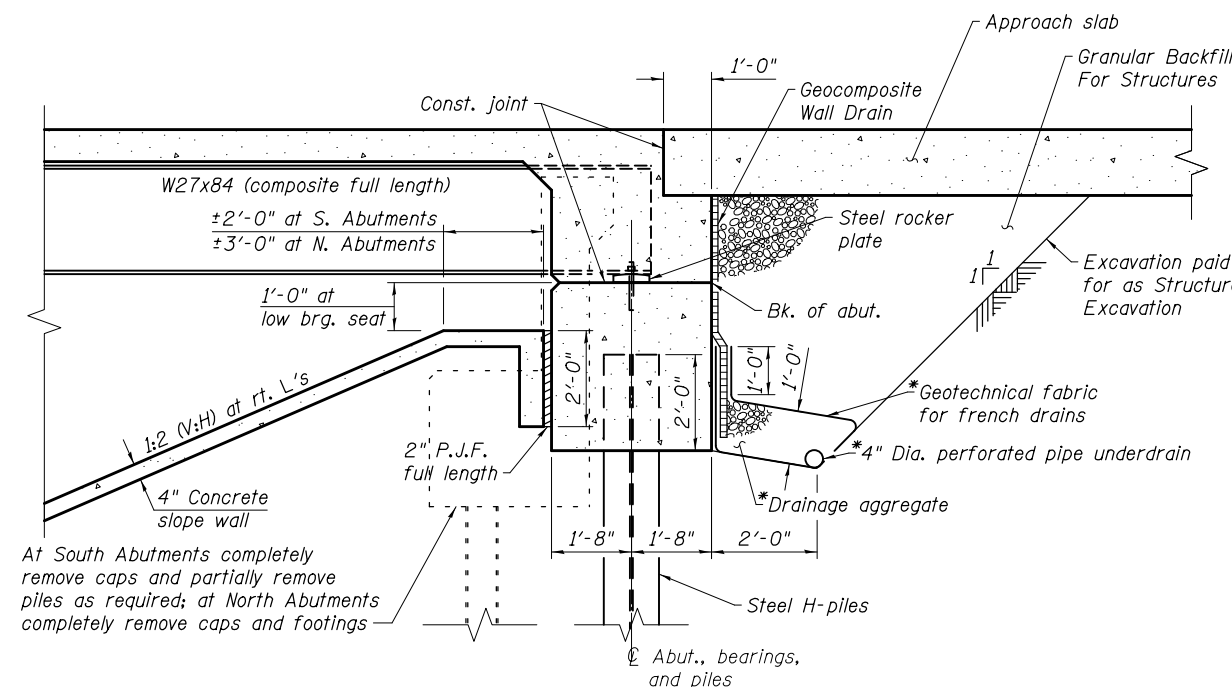
NORTHBOUND

STATION 3039+62.96
BUILT 201 BY
STATE OF ILLINOIS
F.A.I. RT. 57 SEC. (91-4)B-1
LOADING HL-93
STR. NO. 091-0076

SOUTHBOUND

NAME PLATES

See Std. 515001



SECTION THROUGH ABUTMENT

(Horizontal dimensions at rt. L's)

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).

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

STRUCTURE INDEX OF SHEETS

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Top of Slab Elevations - (SB)	Sheet No. 7 of 37
Top of Approach Slab Elevations - (NB)	Sheet No. 8 of 37
Top of Approach Slab Elevations - (SB)	Sheet No. 9 of 37
Superstructure - (NB)	Sheet No. 10 of 37
Superstructure Details - (NB)	Sheet No. 11 of 37
Superstructure - (SB)	Sheet No. 12 of 37
Superstructure Details - (SB)	Sheet No. 13 of 37
Diaphragm Details	Sheet No. 14 of 37
Bridge Approach Slab Details	Sheet No. 15-16 of 37
Steel Framing Plan and Details - (NB)	Sheet No. 17 of 37
Steel Framing Details - (NB)	Sheet No. 18 of 37
Steel Framing Plan and Details - (SB)	Sheet No. 19 of 37
Steel Framing Details - (SB)	Sheet No. 20 of 37
Bearing Details - (NB)	Sheet No. 21 of 37
Bearing Details - (SB)	Sheet No. 22 of 37
North Abutment - (NB)	Sheet No. 23 of 37
South Abutment - (NB)	Sheet No. 24 of 37
North Abutment - (SB)	Sheet No. 25 of 37
South Abutment - (SB)	Sheet No. 26 of 37
Pier 1 - (NB)	Sheet No. 27 of 37
Pier 2 - (NB)	Sheet No. 28 of 37
Pier 1 - (SB)	Sheet No. 29 of 37
Pier 2 - (SB)	Sheet No. 30 of 37
HP Pile Details	Sheet No. 31 of 37
Boring Logs	Sheet No. 32-37 of 37

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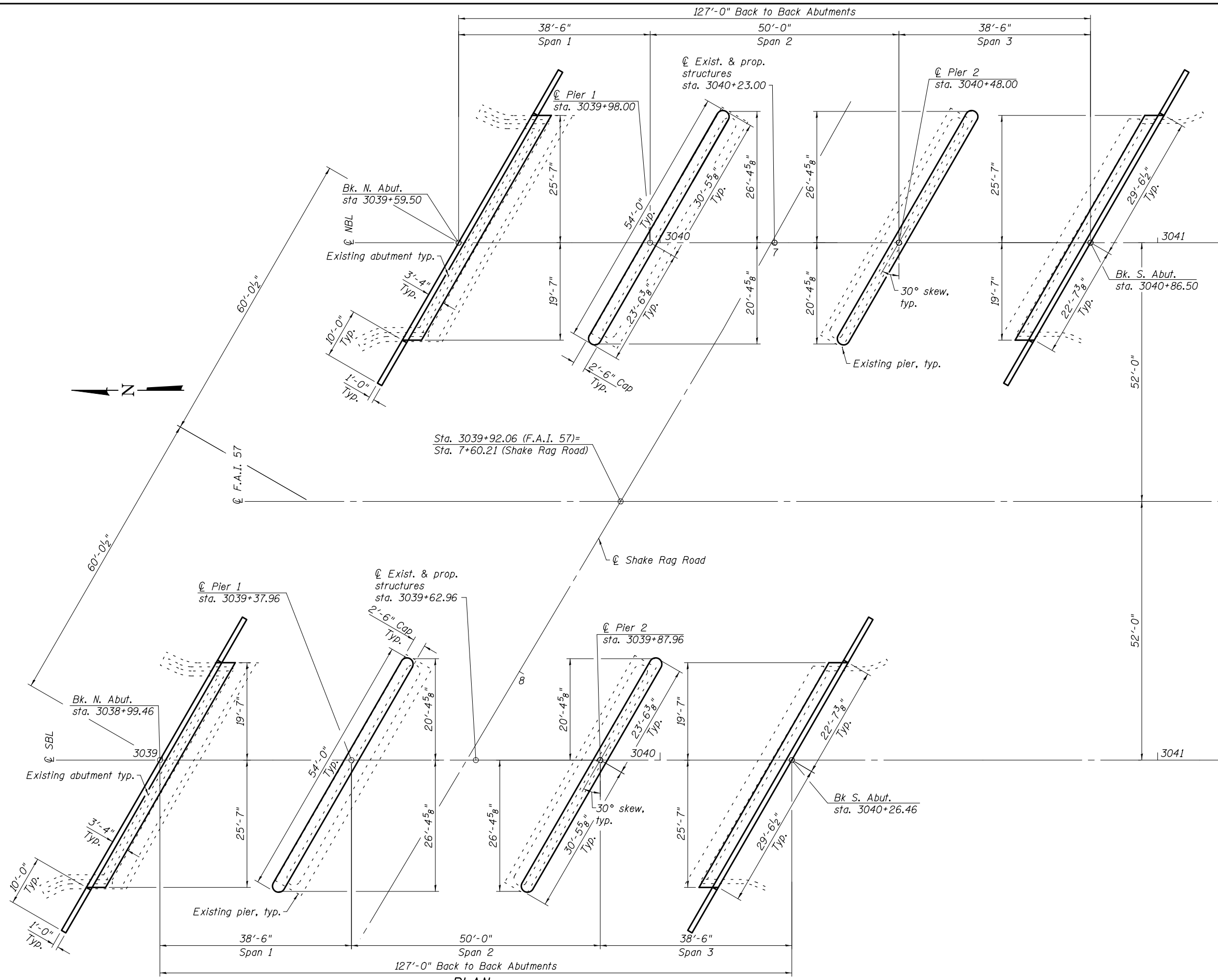
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**GENERAL DATA
STRUCTURE NO. 091-0075 (NB) & 091-0076 (SB)**

SHEET NO. 2 OF 37 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	(91-4)B-1	UNION	161	71
CONTRACT NO. 78522				
ILLINOIS FED. AID PROJECT				



PLAN

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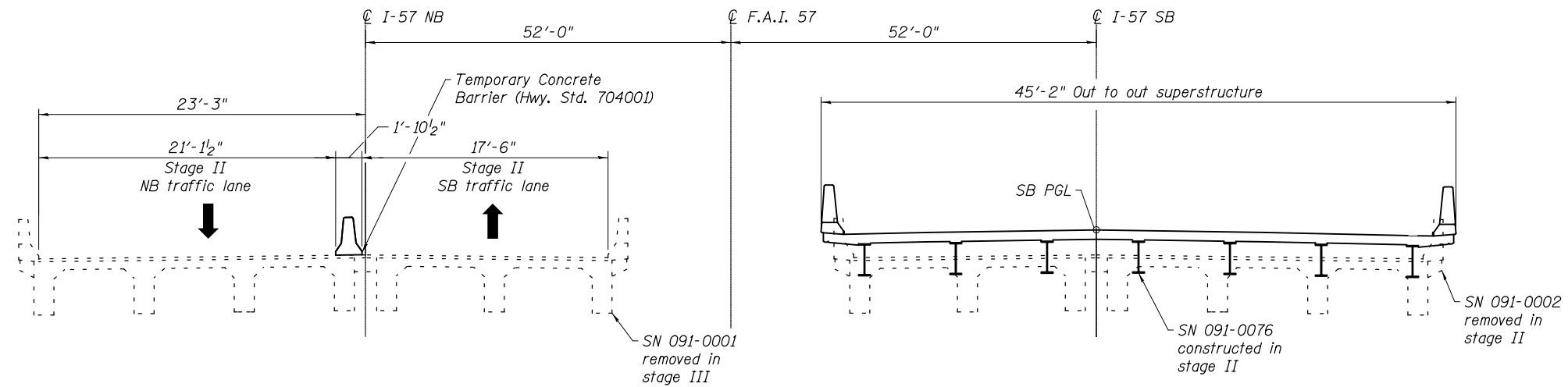
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

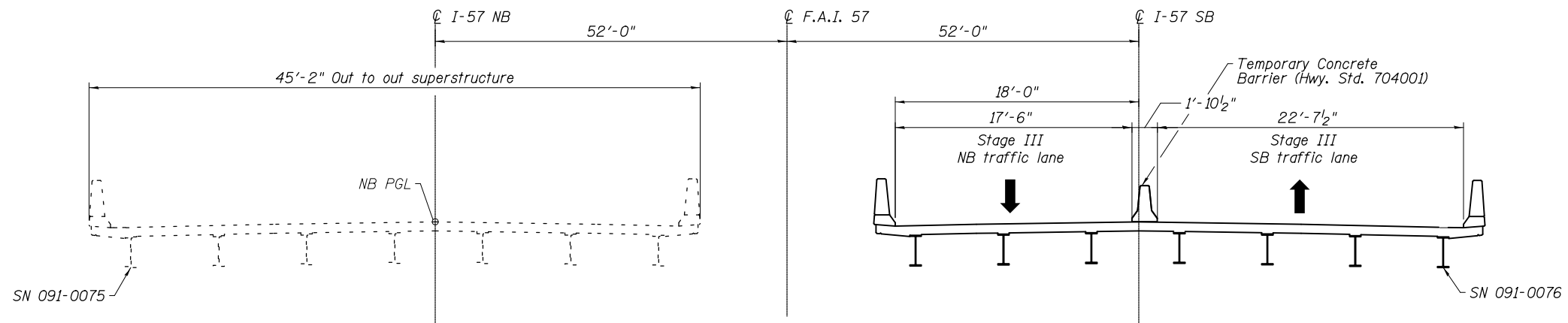
SUBSTRUCTURE LAYOUT
STRUCTURE NO. 091-0075 (NB) & 091-0076 (SB)

SHEET NO. 3 OF 37 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	(91-4)B-1	UNION	160	72
CONTRACT NO. 78522			ILLINOIS FED. AID PROJECT	



STAGE II REMOVAL AND CONSTRUCTION



STAGE III REMOVAL AND CONSTRUCTION

STAGE CONSTRUCTION NOTES

1. All sections are looking south.
2. See roadway plans for limits and quantities of Temporary Concrete Barrier.

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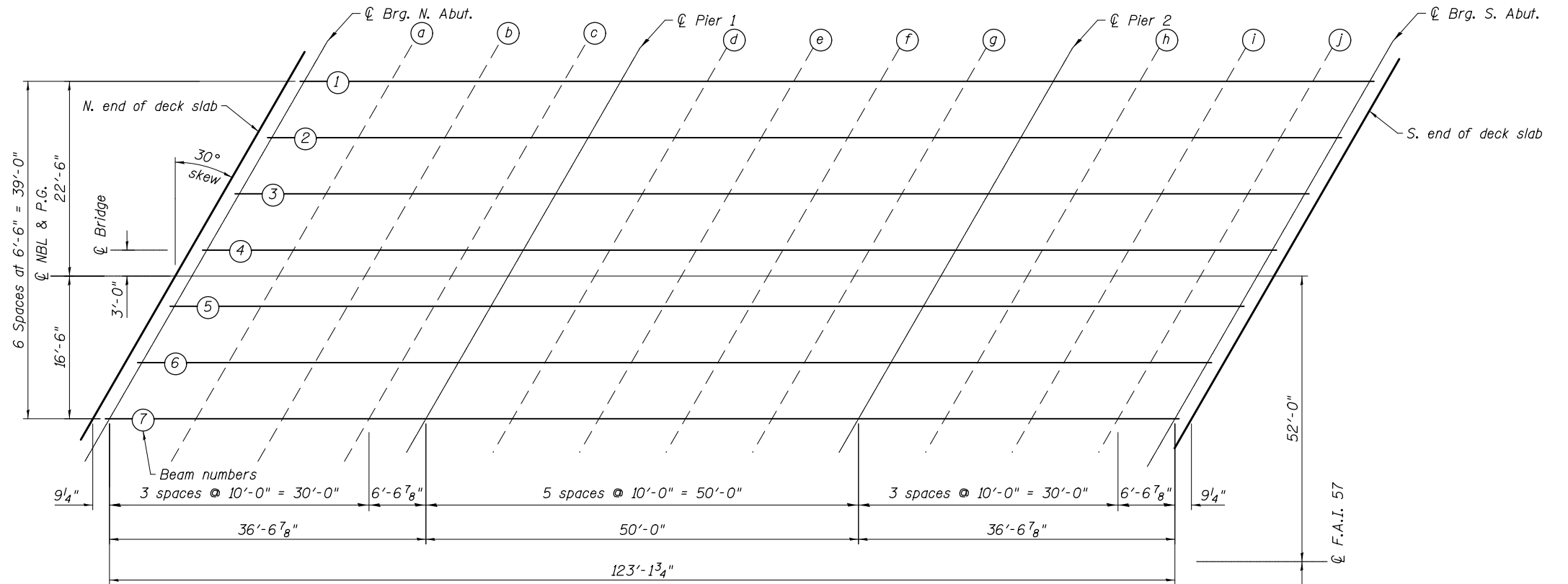
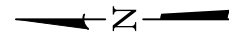
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

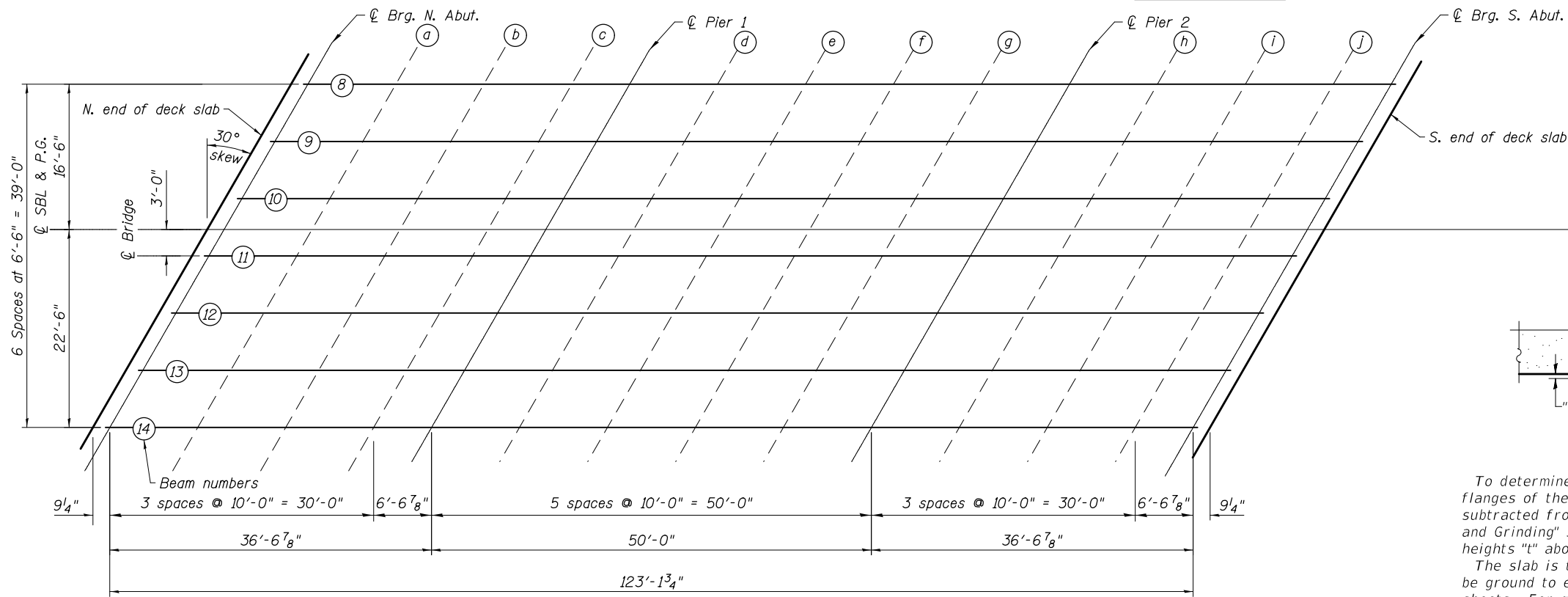
**STAGE CONSTRUCTION DETAILS
STRUCTURE NO. 091-0075 (NB) & 091-0076 (SB)**

SHEET NO. 4 OF 37 SHEETS

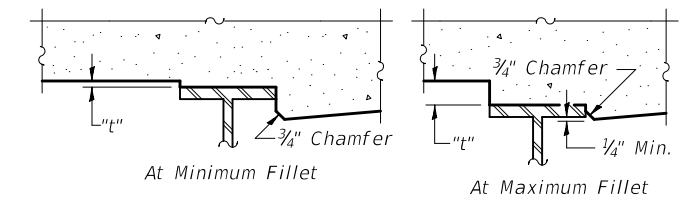
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57	(91-4)B-1	UNION	160	73
CONTRACT NO. 78522			ILLINOIS FED. AID PROJECT	



PLAN - NBL



PLAN - SBL



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 and Grinding" shown on the following sheets, minus slab thickness, equals the fillet heights "t" above top flange of beams.
 The slab is to be ground after curing to achieve smoothness, but the slab is not to be ground to elevations below the "Theoretical Grade Elevations" shown on the following sheets. For grinding the deck, see Special Provisions.

FILLET HEIGHTS

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 PLOT SCALE = 0.2' = 1"



USER NAME = SKM	DESIGNED - RTM 11/17	REVISED -
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PLOT SCALE = 0.2' = 1"	DRAWN - KAH 11/17	REVISED -
PLOT DATE = 3/19/2018 12:58:19 PM	CHECKED - RTM/ELH 11/17	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TOP OF SLAB ELEVATIONS
STRUCTURE NO. 091-0075 (NB) & 091-0076 (SB)

SHEET NO. 5 OF 37 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	(91-4)B-1	UNION	160	74
CONTRACT NO. 78522				
ILLINOIS FED. AID PROJECT				

BEAM 1

Location	Station	Offset (ft.)	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection and Grinding
N. end of slab	3039+73.64	-22.50	421.56	421.58
☉ Brg. N. Abut.	3039+74.41	-22.50	421.56	421.58
a	3039+84.41	-22.50	421.61	421.64
b	3039+94.41	-22.50	421.66	421.69
c	3040+04.41	-22.50	421.71	421.73
☉ Pier 1	3040+10.99	-22.50	421.74	421.77
d	3040+20.99	-22.50	421.79	421.83
e	3040+30.99	-22.50	421.84	421.89
f	3040+40.99	-22.50	421.89	421.94
g	3040+50.99	-22.50	421.94	421.98
☉ Pier 2	3040+60.99	-22.50	421.99	422.02
h	3040+70.99	-22.50	422.04	422.07
i	3040+80.99	-22.50	422.09	422.13
j	3040+90.99	-22.50	422.14	422.17
☉ Brg. S. Abut.	3040+97.56	-22.50	422.18	422.20
S. end of slab	3040+98.34	-22.50	422.18	422.20

BEAM 2

Location	Station	Offset (ft.)	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection and Grinding
N. end of slab	3039+69.89	-16.00	421.67	421.69
☉ Brg. N. Abut.	3039+70.66	-16.00	421.67	421.69
a	3039+80.66	-16.00	421.72	421.75
b	3039+90.66	-16.00	421.77	421.80
c	3040+00.66	-16.00	421.82	421.85
☉ Pier 1	3040+07.23	-16.00	421.86	421.88
d	3040+17.23	-16.00	421.91	421.94
e	3040+27.23	-16.00	421.96	422.01
f	3040+37.23	-16.00	422.01	422.06
g	3040+47.23	-16.00	422.06	422.09
☉ Pier 2	3040+57.23	-16.00	422.11	422.13
h	3040+67.23	-16.00	422.16	422.18
i	3040+77.23	-16.00	422.21	422.24
j	3040+87.23	-16.00	422.26	422.28
☉ Brg. S. Abut.	3040+93.81	-16.00	422.29	422.31
S. end of slab	3040+94.59	-16.00	422.29	422.31

BEAM 3

Location	Station	Offset (ft.)	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection and Grinding
N. end of slab	3039+66.13	-9.50	421.77	421.79
☉ Brg. N. Abut.	3039+66.90	-9.50	421.77	421.79
a	3039+76.90	-9.50	421.82	421.85
b	3039+86.90	-9.50	421.87	421.90
c	3039+96.90	-9.50	421.92	421.94
☉ Pier 1	3040+03.48	-9.50	421.95	421.98
d	3040+13.48	-9.50	422.00	422.04
e	3040+23.48	-9.50	422.05	422.10
f	3040+33.48	-9.50	422.10	422.15
g	3040+43.48	-9.50	422.15	422.19
☉ Pier 2	3040+53.48	-9.50	422.20	422.23
h	3040+63.48	-9.50	422.25	422.28
i	3040+73.48	-9.50	422.30	422.34
j	3040+83.48	-9.50	422.35	422.38
☉ Brg. S. Abut.	3040+90.05	-9.50	422.39	422.41
S. end of slab	3040+90.84	-9.50	422.39	422.41

BEAM 4

Location	Station	Offset (ft.)	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection and Grinding
N. end of slab	3039+62.38	-3.00	421.85	421.87
☉ Brg. N. Abut.	3039+63.15	-3.00	421.85	421.87
a	3039+73.15	-3.00	421.90	421.93
b	3039+83.15	-3.00	421.95	421.98
c	3039+93.15	-3.00	422.00	422.02
☉ Pier 1	3039+99.73	-3.00	422.03	422.05
d	3040+09.73	-3.00	422.08	422.12
e	3040+19.73	-3.00	422.13	422.18
f	3040+29.73	-3.00	422.18	422.23
g	3040+39.73	-3.00	422.23	422.27
☉ Pier 2	3040+49.73	-3.00	422.28	422.30
h	3040+59.73	-3.00	422.33	422.36
i	3040+69.73	-3.00	422.38	422.42
j	3040+79.73	-3.00	422.43	422.46
☉ Brg. S. Abut.	3040+86.30	-3.00	422.47	422.49
S. end of slab	3040+87.08	-3.00	422.47	422.49

BEAM 5

Location	Station	Offset (ft.)	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection and Grinding
N. end of slab	3039+58.63	3.50	421.82	421.84
☉ Brg. N. Abut.	3039+59.40	3.50	421.82	421.85
a	3039+69.40	3.50	421.87	421.91
b	3039+79.40	3.50	421.92	421.96
c	3039+89.40	3.50	421.97	422.00
☉ Pier 1	3039+95.97	3.50	422.01	422.03
d	3040+05.97	3.50	422.06	422.09
e	3040+15.97	3.50	422.11	422.16
f	3040+25.97	3.50	422.16	422.21
g	3040+35.97	3.50	422.21	422.24
☉ Pier 2	3040+45.97	3.50	422.26	422.28
h	3040+55.97	3.50	422.31	422.33
i	3040+65.97	3.50	422.36	422.39
j	3040+75.97	3.50	422.41	422.44
☉ Brg. S. Abut.	3040+82.55	3.50	422.44	422.46
S. end of slab	3040+83.33	3.50	422.44	422.46

BEAM 6

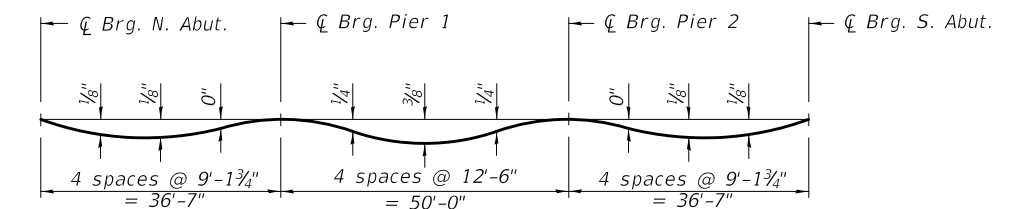
Location	Station	Offset (ft.)	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection and Grinding
N. end of slab	3039+54.88	10.00	421.70	421.73
☉ Brg. N. Abut.	3039+55.65	10.00	421.71	421.73
a	3039+65.65	10.00	421.76	421.79
b	3039+75.65	10.00	421.81	421.84
c	3039+85.65	10.00	421.86	421.88
☉ Pier 1	3039+92.22	10.00	421.89	421.91
d	3040+02.22	10.00	421.94	421.98
e	3040+12.22	10.00	421.99	422.04
f	3040+22.22	10.00	422.04	422.09
g	3040+32.22	10.00	422.09	422.13
☉ Pier 2	3040+42.22	10.00	422.14	422.16
h	3040+52.22	10.00	422.19	422.22
i	3040+62.22	10.00	422.24	422.27
j	3040+72.22	10.00	422.29	422.32
☉ Brg. S. Abut.	3040+78.79	10.00	422.32	422.34
S. end of slab	3040+79.58	10.00	422.33	422.35

BEAM 7

Location	Station	Offset (ft.)	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection and Grinding
N. end of slab	3039+51.12	16.50	421.57	421.59
☉ Brg. N. Abut.	3039+51.89	16.50	421.57	421.59
a	3039+61.89	16.50	421.62	421.65
b	3039+71.89	16.50	421.67	421.70
c	3039+81.89	16.50	421.72	421.74
☉ Pier 1	3039+88.47	16.50	421.75	421.77
d	3039+98.47	16.50	421.80	421.84
e	3040+08.47	16.50	421.85	421.90
f	3040+18.47	16.50	421.90	421.95
g	3040+28.47	16.50	421.95	421.99
☉ Pier 2	3040+38.47	16.50	422.00	422.02
h	3040+48.47	16.50	422.05	422.08
i	3040+58.47	16.50	422.10	422.13
j	3040+68.47	16.50	422.15	422.18
☉ Brg. S. Abut.	3040+75.04	16.50	422.19	422.21
S. end of slab	3040+75.82	16.50	422.19	422.21

PROFILE GRADE NBL

Location	Station	Offset (ft.)	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection and Grinding
N. end of slab	3039+60.65	0.00	421.88	421.90
☉ Brg. N. Abut.	3039+61.42	0.00	421.89	421.91
a	3039+71.42	0.00	421.94	421.97
b	3039+81.42	0.00	421.99	422.02
c	3039+91.42	0.00	422.04	422.06
☉ Pier 1	3039+98.00	0.00	422.07	422.09
d	3040+08.00	0.00	422.12	422.16
e	3040+18.00	0.00	422.17	422.20
f	3040+28.00	0.00	422.22	422.25
g	3040+38.00	0.00	422.27	422.29
☉ Pier 2	3040+48.00	0.00	422.32	422.34
h	3040+58.00	0.00	422.37	422.40
i	3040+68.00	0.00	422.42	422.45
j	3040+78.00	0.00	422.47	422.50
☉ Brg. S. Abut.	3040+84.57	0.00	422.50	422.52
S. end of slab	3040+85.35	0.00	422.51	422.53



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 and grinding as shown.

PRINT DRIVER = L:\05-EB\1414\F9
 SCALE NAME = PLOT
 FILE NAME = P:\05\1414\F9\0522-06-13\SCALE-06.dwg



USER NAME = SKM
 ESCA PROJECT NO. 1259.08
 PLOT SCALE = 0/2 '1' / in.
 PLOT DATE = 3/19/2018 12:58:20 PM

DESIGNED - RTM 11/17
 CHECKED - RDP 11/17
 DRAWN - KAH 11/17
 CHECKED - RTM/ELH 02/18

REVISED -
 REVISED -
 REVISED -
 REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

TOP OF SLAB ELEVATIONS (NB)
 STRUCTURE NO. 091-0075 (NB)

SHEET NO. 6 OF 37 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	(91-4)B-1	UNION	160	75
CONTRACT NO. 78522				
ILLINOIS FED. AID PROJECT				

BEAM 8

Location	Station	Offset (ft.)	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection and Grinding
N. end of slab	3039+10.14	-16.50	421.99	422.02
☉ Brg. N. Abut.	3039+10.91	-16.50	422.00	422.02
a	3039+20.91	-16.50	422.06	422.10
b	3039+30.91	-16.50	422.13	422.16
c	3039+40.91	-16.50	422.19	422.21
☉ Pier 1	3039+47.49	-16.50	422.23	422.25
d	3039+57.49	-16.50	422.30	422.33
e	3039+67.49	-16.50	422.36	422.41
f	3039+77.49	-16.50	422.43	422.48
g	3039+87.49	-16.50	422.49	422.53
☉ Pier 2	3039+97.49	-16.50	422.55	422.57
h	3040+07.49	-16.50	422.62	422.64
i	3040+17.49	-16.50	422.68	422.71
j	3040+27.49	-16.50	422.75	422.77
☉ Brg. S. Abut.	3040+34.06	-16.50	422.79	422.81
S. end of slab	3040+34.83	-16.50	422.79	422.81

BEAM 9

Location	Station	Offset (ft.)	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection and Grinding
N. end of slab	3039+06.39	-10.00	422.09	422.11
☉ Brg. N. Abut.	3039+07.16	-10.00	422.10	422.12
a	3039+17.16	-10.00	422.16	422.19
b	3039+27.16	-10.00	422.22	422.25
c	3039+37.16	-10.00	422.29	422.31
☉ Pier 1	3039+43.73	-10.00	422.33	422.35
d	3039+53.73	-10.00	422.39	422.43
e	3039+63.73	-10.00	422.46	422.51
f	3039+73.73	-10.00	422.52	422.57
g	3039+83.73	-10.00	422.59	422.62
☉ Pier 2	3039+93.73	-10.00	422.65	422.67
h	3040+03.73	-10.00	422.71	422.74
i	3040+13.73	-10.00	422.78	422.81
j	3040+23.73	-10.00	422.84	422.87
☉ Brg. S. Abut.	3040+30.31	-10.00	422.88	422.90
S. end of slab	3040+31.08	-10.00	422.89	422.91

BEAM 10

Location	Station	Offset (ft.)	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection and Grinding
N. end of slab	3039+02.64	-3.50	422.16	422.19
☉ Brg. N. Abut.	3039+03.41	-3.50	422.17	422.19
a	3039+13.41	-3.50	422.23	422.26
b	3039+23.41	-3.50	422.30	422.33
c	3039+33.41	-3.50	422.36	422.38
☉ Pier 1	3039+39.98	-3.50	422.40	422.42
d	3039+49.98	-3.50	422.47	422.50
e	3039+59.98	-3.50	422.53	422.58
f	3039+69.98	-3.50	422.60	422.65
g	3039+79.98	-3.50	422.66	422.69
☉ Pier 2	3039+89.98	-3.50	422.72	422.74
h	3039+99.98	-3.50	422.79	422.81
i	3040+09.98	-3.50	422.85	422.88
j	3040+19.98	-3.50	422.92	422.94
☉ Brg. S. Abut.	3040+26.55	-3.50	422.96	422.98
S. end of slab	3040+27.33	-3.50	422.96	422.98

BEAM 11

Location	Station	Offset (ft.)	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection and Grinding
N. end of slab	3038+98.88	3.00	422.15	422.17
☉ Brg. N. Abut.	3038+99.65	3.00	422.15	422.17
a	3039+09.65	3.00	422.22	422.25
b	3039+19.65	3.00	422.28	422.31
c	3039+29.65	3.00	422.34	422.37
☉ Pier 1	3039+36.23	3.00	422.39	422.41
d	3039+46.23	3.00	422.45	422.49
e	3039+56.23	3.00	422.51	422.56
f	3039+66.23	3.00	422.58	422.63
g	3039+76.23	3.00	422.64	422.68
☉ Pier 2	3039+86.23	3.00	422.71	422.73
h	3039+96.23	3.00	422.77	422.80
i	3040+06.23	3.00	422.83	422.87
j	3040+16.23	3.00	422.90	422.93
☉ Brg. S. Abut.	3040+22.80	3.00	422.94	422.96
S. end of slab	3040+23.57	3.00	422.95	422.97

BEAM 12

Location	Station	Offset (ft.)	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection and Grinding
N. end of slab	3038+95.13	9.50	422.03	422.05
☉ Brg. N. Abut.	3038+95.90	9.50	422.03	422.05
a	3039+05.90	9.50	422.10	422.13
b	3039+15.90	9.50	422.16	422.19
c	3039+25.90	9.50	422.22	422.25
☉ Pier 1	3039+32.48	9.50	422.27	422.29
d	3039+42.48	9.50	422.33	422.36
e	3039+52.48	9.50	422.39	422.44
f	3039+62.48	9.50	422.46	422.51
g	3039+72.48	9.50	422.52	422.56
☉ Pier 2	3039+82.48	9.50	422.59	422.61
h	3039+92.48	9.50	422.65	422.68
i	3040+02.48	9.50	422.71	422.75
j	3040+12.48	9.50	422.78	422.81
☉ Brg. S. Abut.	3040+19.05	9.50	422.82	422.84
S. end of slab	3040+19.82	9.50	422.82	422.85

BEAM 13

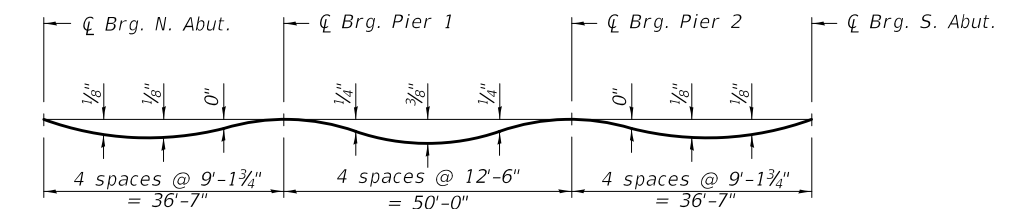
Location	Station	Offset (ft.)	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection and Grinding
N. end of slab	3038+91.38	16.00	421.88	421.91
☉ Brg. N. Abut.	3038+92.15	16.00	421.89	421.91
a	3039+02.15	16.00	421.95	421.99
b	3039+12.15	16.00	422.02	422.05
c	3039+22.15	16.00	422.08	422.10
☉ Pier 1	3039+28.72	16.00	422.12	422.14
d	3039+38.72	16.00	422.19	422.22
e	3039+48.72	16.00	422.25	422.30
f	3039+58.72	16.00	422.32	422.37
g	3039+68.72	16.00	422.38	422.42
☉ Pier 2	3039+78.72	16.00	422.44	422.46
h	3039+88.72	16.00	422.51	422.53
i	3039+98.72	16.00	422.57	422.60
j	3040+08.72	16.00	422.64	422.66
☉ Brg. S. Abut.	3040+15.29	16.00	422.68	422.70
S. end of slab	3040+16.07	16.00	422.68	422.70

BEAM 14

Location	Station	Offset (ft.)	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection and Grinding
N. end of slab	3038+87.62	22.50	421.73	421.75
☉ Brg. N. Abut.	3038+88.40	22.50	421.74	421.76
a	3038+98.40	22.50	421.80	421.83
b	3039+08.40	22.50	421.86	421.89
c	3039+18.40	22.50	421.93	421.95
☉ Pier 1	3039+24.97	22.50	421.97	421.99
d	3039+34.97	22.50	422.03	422.07
e	3039+44.97	22.50	422.10	422.15
f	3039+54.97	22.50	422.16	422.21
g	3039+64.97	22.50	422.23	422.26
☉ Pier 2	3039+74.97	22.50	422.29	422.31
h	3039+84.97	22.50	422.35	422.38
i	3039+94.97	22.50	422.42	422.45
j	3040+04.97	22.50	422.48	422.51
☉ Brg. S. Abut.	3040+11.54	22.50	422.52	422.54
S. end of slab	3040+12.32	22.50	422.53	422.55

PROFILE GRADE SBL

Location	Station	Offset (ft.)	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection and Grinding
N. end of slab	3039+00.61	0.00	422.20	422.22
☉ Brg. N. Abut.	3039+01.39	0.00	422.21	422.23
a	3039+11.39	0.00	422.27	422.30
b	3039+21.39	0.00	422.34	422.37
c	3039+31.39	0.00	422.40	422.42
☉ Pier 1	3039+37.96	0.00	422.44	422.46
d	3039+47.96	0.00	422.51	422.54
e	3039+57.96	0.00	422.57	422.60
f	3039+67.96	0.00	422.63	422.68
g	3039+77.96	0.00	422.70	422.73
☉ Pier 2	3039+87.96	0.00	422.76	422.78
h	3039+97.96	0.00	422.83	422.85
i	3040+07.96	0.00	422.89	422.92
j	3040+17.96	0.00	422.95	422.98
☉ Brg. S. Abut.	3040+24.53	0.00	423.00	423.02
S. end of slab	3040+25.31	0.00	423.00	423.02



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 and grinding as shown.

PRINT DRIVER = L:\05-ESCA\1415\F9
 SCALE NAME = PLOT
 FILE NAME = P:\2015\1259-08\1415-08.dwg



USER NAME = SKM
 ESCA PROJECT NO. 1259-08
 PLOT SCALE = 0:2 '1" / in.
 PLOT DATE = 3/19/2018 12:58:21 PM

DESIGNED - RTM 11/17
 CHECKED - RDP 11/17
 DRAWN - KAH 11/17
 CHECKED - RTM/ELH 02/18

REVISED -
 REVISED -
 REVISED -
 REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

TOP OF SLAB ELEVATIONS (SB)
 STRUCTURE NO. 091-0076 (SB)

SHEET NO. 7 OF 37 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	(91-4)B-1	UNION	160	76
CONTRACT NO. 78522				
ILLINOIS FED. AID PROJECT				

NORTH APPROACH SLAB (NB)

EAST EDGE OF SHOULDER

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Grinding
N. end of N. Appr.	3039+44.51	-24.00	421.38	421.40
A1	3039+54.51	-24.00	421.43	421.45
A2	3039+64.51	-24.00	421.48	421.50
S. End of N. Appr.	3039+74.51	-24.00	421.53	421.55

EAST EDGE OF ROADWAY

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Grinding
N. end of N. Appr.	3039+37.58	-12.00	421.59	421.61
A1	3039+47.58	-12.00	421.64	421.66
A2	3039+57.58	-12.00	421.69	421.71
S. End of N. Appr.	3039+67.58	-12.00	421.74	421.76

☐ NBL & P.G.

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Grinding
N. end of N. Appr.	3039+30.65	0.00	421.73	421.75
A1	3039+40.65	0.00	421.78	421.80
A2	3039+50.65	0.00	421.83	421.85
S. End of N. Appr.	3039+60.65	0.00	421.88	421.90

WEST EDGE OF ROADWAY

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Grinding
N. end of N. Appr.	3039+23.72	12.00	421.52	421.54
A1	3039+33.72	12.00	421.57	421.59
A2	3039+43.72	12.00	421.62	421.64
S. End of N. Appr.	3039+53.72	12.00	421.67	421.69

WEST EDGE OF SHOULDER

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Grinding
N. end of N. Appr.	3039+20.26	18.00	421.38	421.40
A1	3039+30.26	18.00	421.43	421.45
A2	3039+40.26	18.00	421.48	421.50
S. End of N. Appr.	3039+50.26	18.00	421.53	421.55

SOUTH APPROACH SLAB (NB)

EAST EDGE OF SHOULDER

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Grinding
N. end of S. Appr.	3040+99.20	-24.00	422.16	422.18
A3	3041+09.20	-24.00	422.21	422.23
A4	3041+19.20	-24.00	422.26	422.28
S. End of S. Appr.	3041+29.20	-24.00	422.31	422.33

EAST EDGE OF ROADWAY

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Grinding
N. end of S. Appr.	3040+92.27	-12.00	422.36	422.38
A3	3041+02.27	-12.00	422.41	422.43
A4	3041+12.27	-12.00	422.46	422.48
S. End of S. Appr.	3041+22.27	-12.00	422.51	422.53

☐ NBL & P.G.

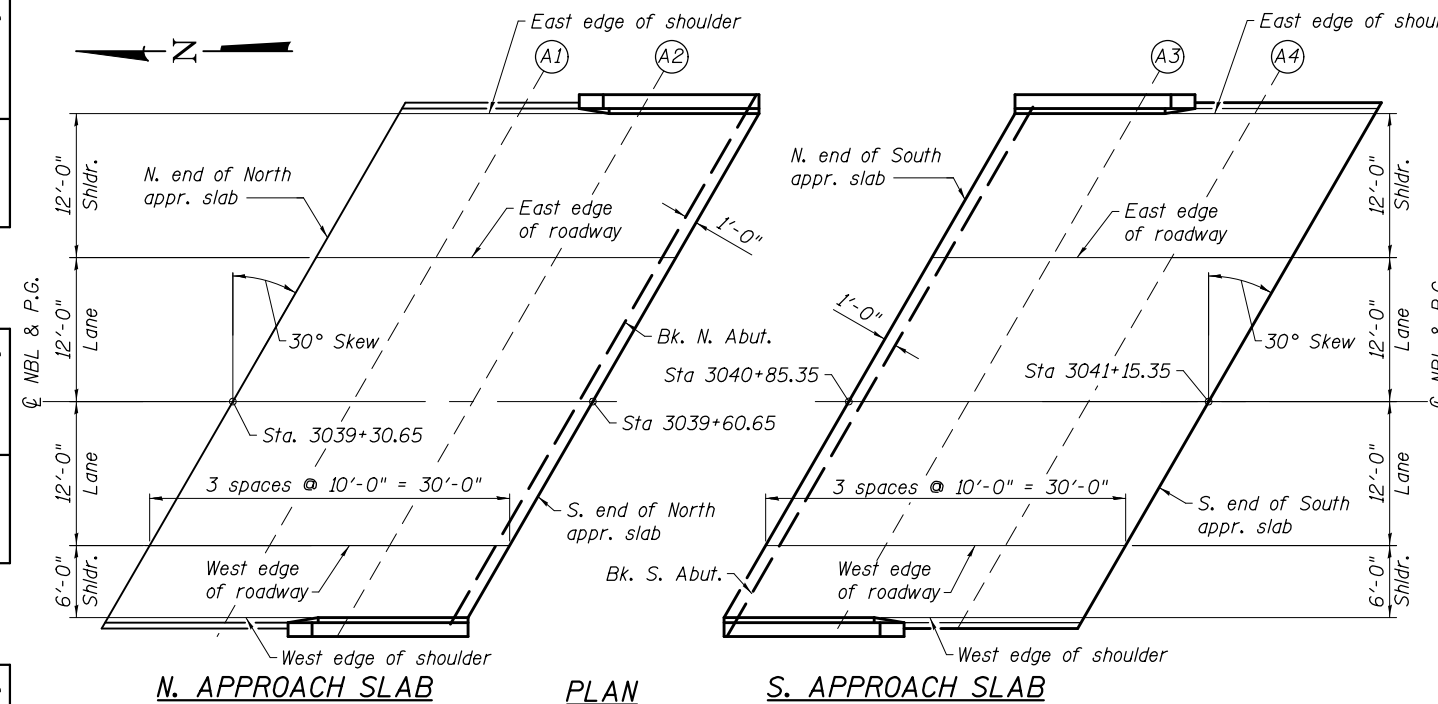
Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Grinding
N. end of S. Appr.	3040+85.35	0.00	422.51	422.53
A3	3040+95.35	0.00	422.56	422.58
A4	3041+05.35	0.00	422.61	422.63
S. End of S. Appr.	3041+15.35	0.00	422.66	422.68

WEST EDGE OF ROADWAY

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Grinding
N. end of S. Appr.	3040+78.42	12.00	422.29	422.31
A3	3040+88.42	12.00	422.34	422.36
A4	3040+98.42	12.00	422.39	422.41
S. End of S. Appr.	3041+08.42	12.00	422.44	422.46

WEST EDGE OF SHOULDER

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Grinding
N. end of S. Appr.	3040+74.95	18.00	422.15	422.18
A3	3040+84.95	18.00	422.20	422.23
A4	3040+94.95	18.00	422.25	422.28
S. End of S. Appr.	3041+04.95	18.00	422.30	422.33



N. APPROACH SLAB PLAN S. APPROACH SLAB

PRINT DRIVER = L:\05-ESCA\10479
 SCALE NAME = PLOT
 PLOT DATE = 3/19/2018 12:58:22 PM



USER NAME = SKM
 ESCA PROJECT NO. 1259.08
 PLOT SCALE = 0.2" = 1' / in.
 PLOT DATE = 3/19/2018 12:58:22 PM

DESIGNED - RTM 11/17
 CHECKED - RDP 11/17
 DRAWN - KAH 11/17
 CHECKED - RTM/ELH 02/18

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

TOP OF APPROACH SLAB ELEVATIONS (NB)
 STRUCTURE NO. 091-0075 (NB)

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	(91-41B-1)	UNION	160	77
CONTRACT NO. 78522				
ILLINOIS FED. AID PROJECT				

NORTH APPROACH SLAB (SB)

EAST EDGE OF SHOULDER

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Grinding
N. end of N. Apr.	3038+81.01	-18.00	421.78	421.80
A1	3038+91.01	-18.00	421.84	421.86
A2	3039+01.01	-18.00	421.91	421.93
S. End of N. Apr.	3039+11.01	-18.00	421.97	421.99

EAST EDGE OF ROADWAY

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Grinding
N. end of N. Apr.	3038+77.55	-12.00	421.88	421.90
A1	3038+87.55	-12.00	421.94	421.96
A2	3038+97.55	-12.00	422.00	422.03
S. End of N. Apr.	3039+07.55	-12.00	422.07	422.09

☐ SBL & P.G.

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Grinding
N. end of N. Apr.	3038+70.62	0.00	422.01	422.03
A1	3038+80.62	0.00	422.08	422.10
A2	3038+90.62	0.00	422.14	422.16
S. End of N. Apr.	3039+00.62	0.00	422.20	422.22

WEST EDGE OF ROADWAY

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Grinding
N. end of N. Apr.	3038+63.69	12.00	421.79	421.81
A1	3038+73.69	12.00	421.85	421.87
A2	3038+83.69	12.00	421.92	421.94
S. End of N. Apr.	3038+93.69	12.00	421.98	422.00

WEST EDGE OF SHOULDER

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Grinding
N. end of N. Apr.	3038+56.76	24.00	421.50	421.52
A1	3038+66.76	24.00	421.57	421.59
A2	3038+76.76	24.00	421.63	421.65
S. End of N. Apr.	3038+86.76	24.00	421.70	421.72

SOUTH APPROACH SLAB (SB)

EAST EDGE OF SHOULDER

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Grinding
N. end of S. Apr.	3040+35.70	-18.00	422.77	422.79
A3	3040+45.70	-18.00	422.83	422.85
A4	3040+55.70	-18.00	422.90	422.92
S. End of S. Apr.	3040+65.70	-18.00	422.96	422.98

EAST EDGE OF ROADWAY

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Grinding
N. end of S. Apr.	3040+32.24	-12.00	422.87	422.89
A3	3040+42.24	-12.00	422.93	422.95
A4	3040+52.24	-12.00	422.99	423.02
S. End of S. Apr.	3040+62.24	-12.00	423.06	423.08

☐ SBL & P.G.

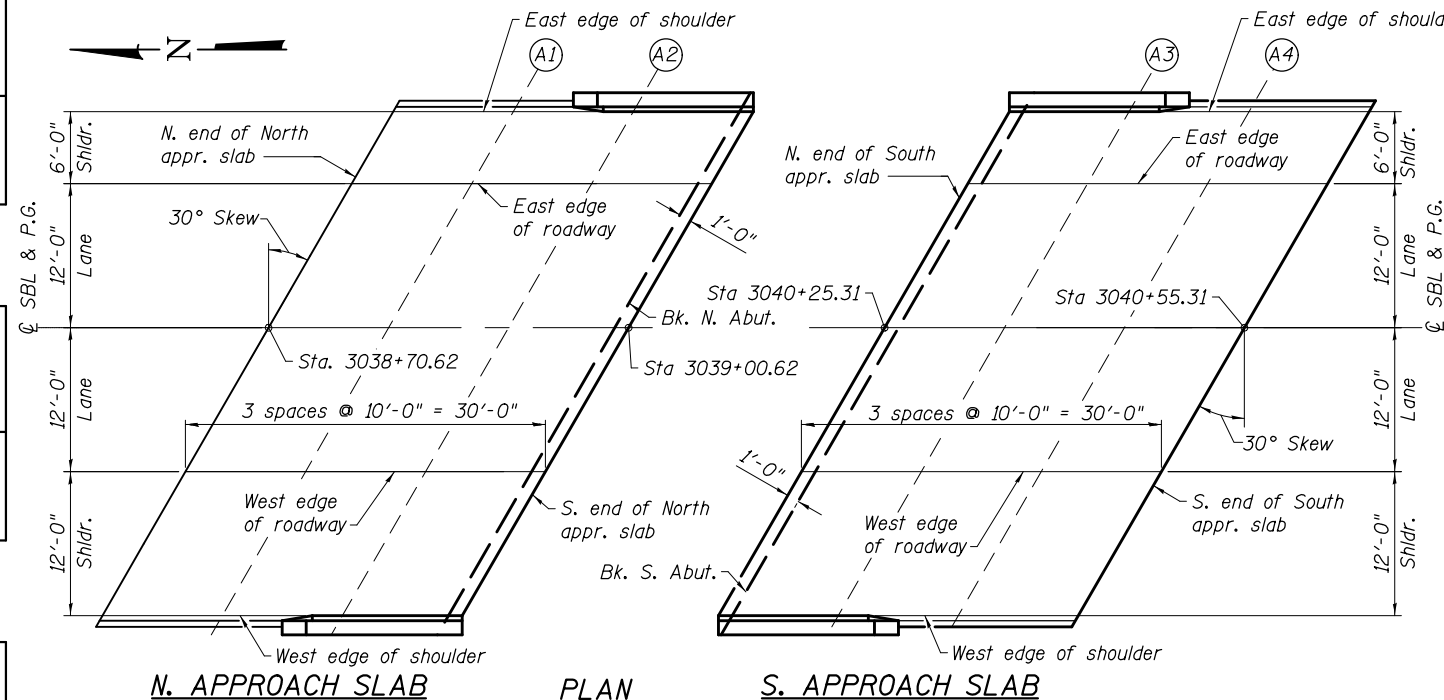
Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Grinding
N. end of S. Apr.	3040+25.31	0.00	423.00	423.02
A3	3040+35.31	0.00	423.07	423.09
A4	3040+45.31	0.00	423.13	423.15
S. End of S. Apr.	3040+55.31	0.00	423.19	423.21

WEST EDGE OF ROADWAY

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Grinding
N. end of S. Apr.	3040+18.38	12.00	422.78	422.80
A3	3040+28.38	12.00	422.84	422.86
A4	3040+38.38	12.00	422.91	422.93
S. End of S. Apr.	3040+48.38	12.00	422.97	422.99

WEST EDGE OF SHOULDER

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Grinding
N. end of S. Apr.	3040+11.45	24.00	422.49	422.51
A3	3040+21.45	24.00	422.56	422.58
A4	3040+31.45	24.00	422.62	422.64
S. End of S. Apr.	3040+41.45	24.00	422.69	422.71



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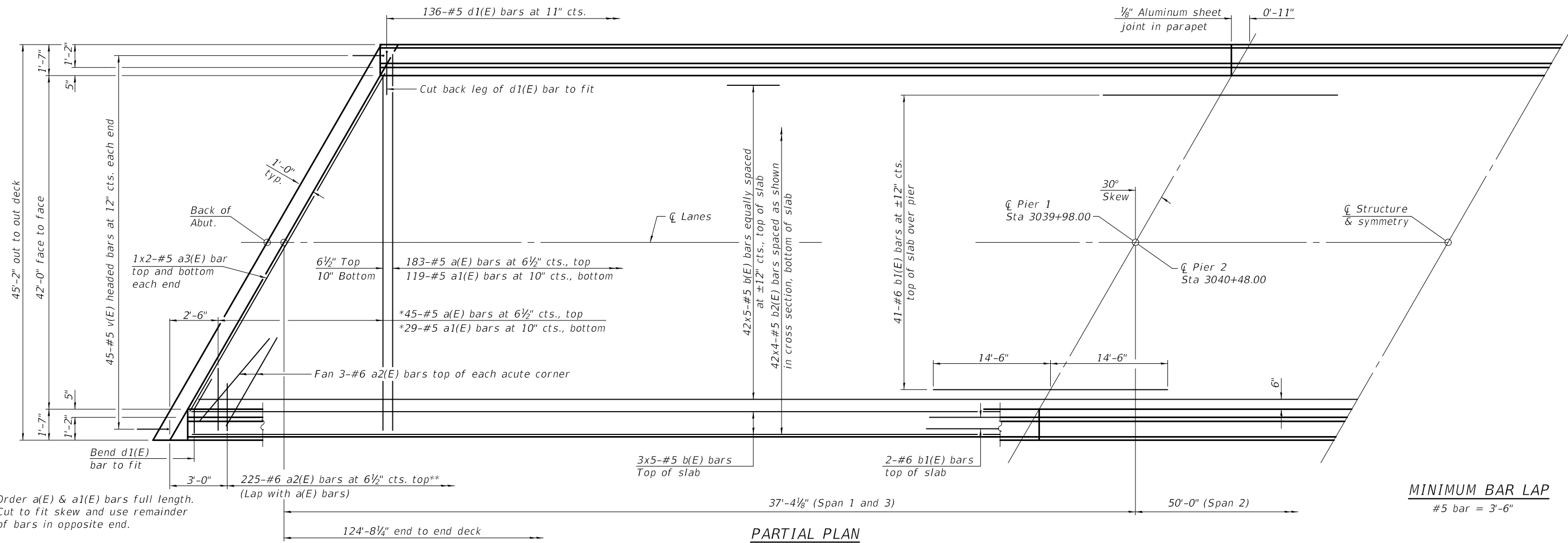
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 CHECKED - RDP 11/17
 DRAWN - KAH 11/17
 CHECKED - RTM/ELH 02/18

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

TOP OF APPROACH SLAB ELEVATIONS (SB)
 STRUCTURE NO. 091-0076 (SB)

SHEET NO. 9 OF 37 SHEETS

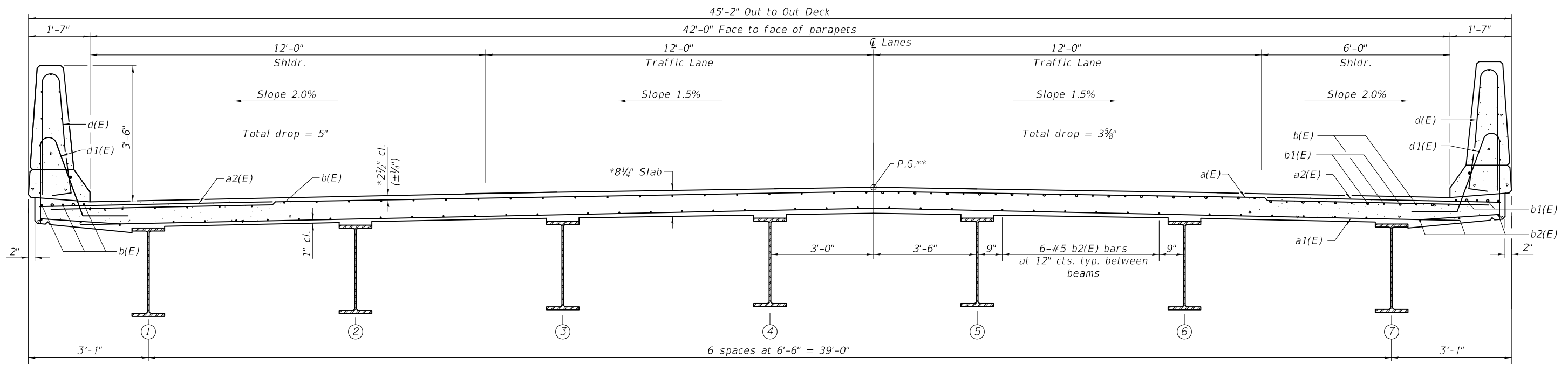
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	(91-4)B-1	UNION	160	78
CONTRACT NO. 78522				
ILLINOIS FED. AID PROJECT				



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

**Field cut to fit as required at end of deck

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



CROSS SECTION
(SN 091-0075 looking south)

*Prior to grinding
**After grinding

Notes:
See sheet 11 of 37 for superstructure details and Bill of Material.
Bars indicated thus 20 x 3-#5 etc. indicates 20 lines of bars with 3 lengths per line.

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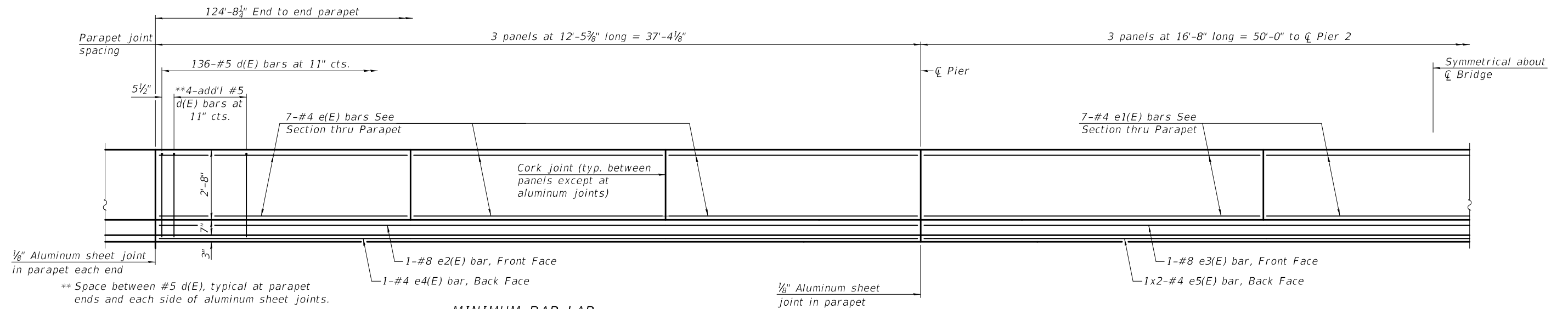
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUPERSTRUCTURE (NB)
STRUCTURE NO. 091-0075 (NB)

SHEET NO. 10 OF 37 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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CONTRACT NO. 78522				

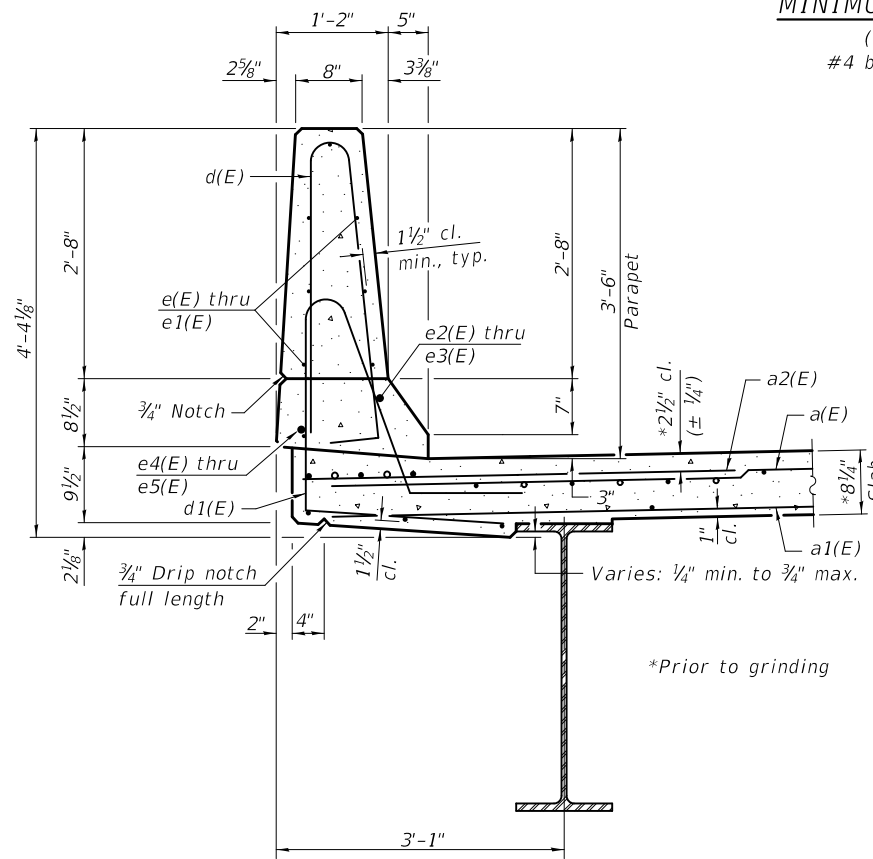
ILLINOIS FED. AID PROJECT



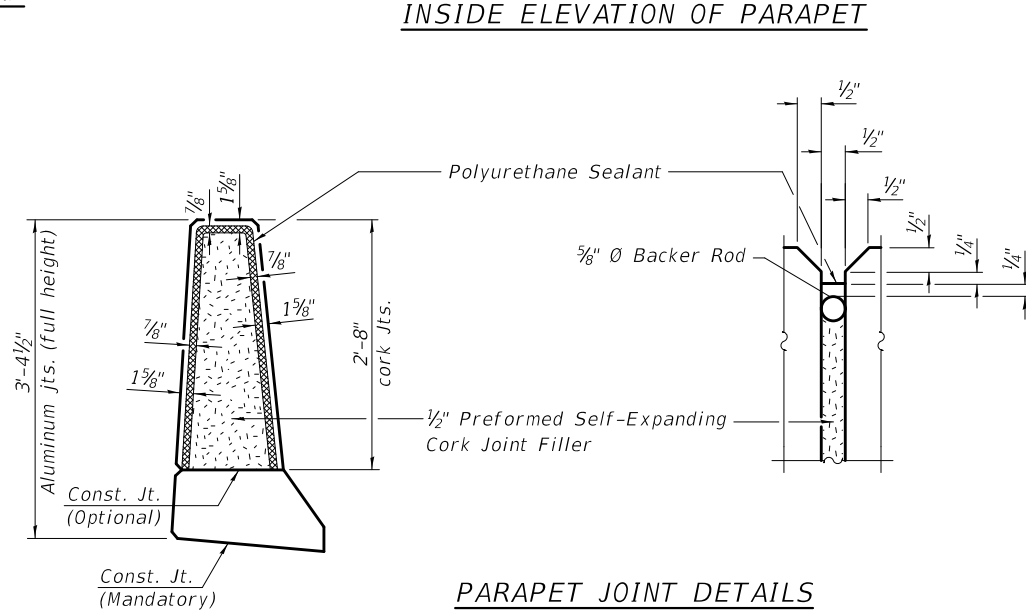
1/8" Aluminum sheet joint in parapet each end
 ** Space between #5 d(E), typical at parapet ends and each side of aluminum sheet joints.

MINIMUM BAR LAP
 (Parapet)
 #4 bar = 2'-5"

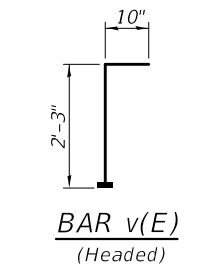
INSIDE ELEVATION OF PARAPET



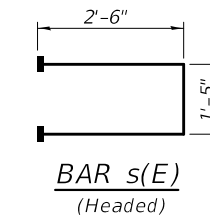
SECTION THRU PARAPET



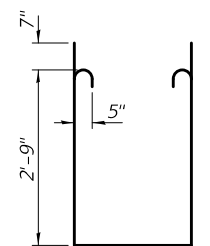
PARAPET JOINT DETAILS



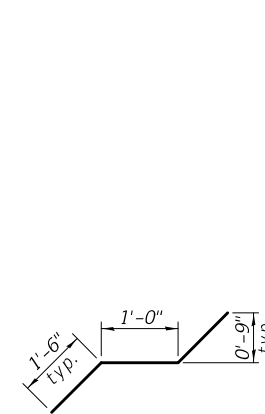
BAR v(E)
 (Headed)



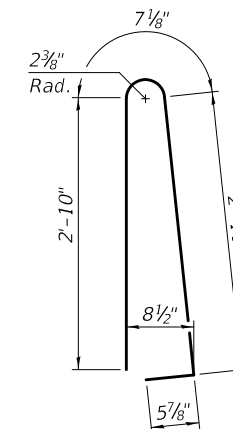
BAR s(E)
 (Headed)



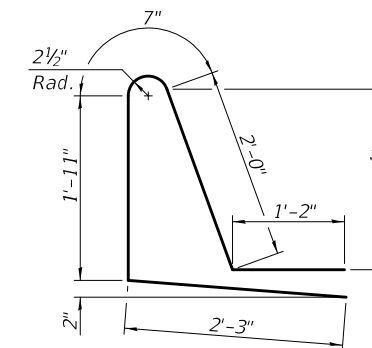
BAR s1(E)



BAR m3(E)



BAR d(E)



BAR d1(E)

SUPERSTRUCTURE BILL OF MATERIAL

Bar	No.	Size	Length	Shape
a(E)	228	#5	44'-6"	—
a1(E)	148	#5	44'-0"	—
a2(E)	456	#6	6'-6"	—
a3(E)	8	#5	27'-8"	—
b(E)	240	#5	27'-9"	—
b1(E)	90	#6	29'-0"	—
b2(E)	168	#5	33'-9"	—
d(E)	288	#5	6'-10"	⌋
d1(E)	272	#5	7'-11"	⌋
e(E)	84	#4	12'-1"	—
e1(E)	42	#4	16'-4"	—
e2(E)	4	#8	37'-0"	—
e3(E)	2	#8	49'-8"	—
e4(E)	4	#4	37'-0"	—
e5(E)	4	#4	26'-1"	—
m(E)	12	#6	27'-10"	—
m1(E)	24	#6	7'-0"	—
m2(E)	8	#6	3'-2"	—
m3(E)	28	#5	4'-0"	—
s(E)	88	#5	6'-5"	⌋
s1(E)	88	#5	8'-11"	⌋
v(E)	90	#5	3'-1"	⌋
Reinforcement Bars, Epoxy Coated		Lbs.	46010	
Concrete Superstructure		Cu. Yds.	208.9	

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

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

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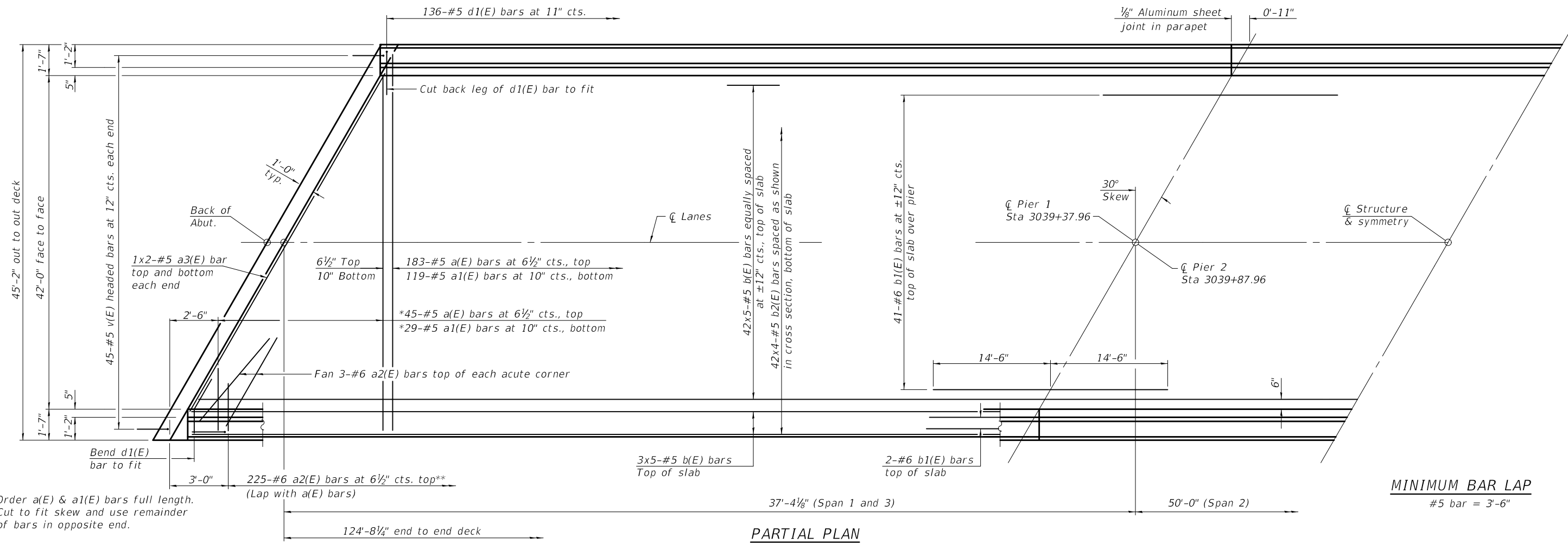
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STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

SUPERSTRUCTURE DETAILS (NB)
 STRUCTURE NO. 091-0075 (NB)

SHEET NO. 11 OF 37 SHEETS

F.A.I. RTE. 57	SECTION (91-41B-1)	COUNTY UNION	TOTAL SHEETS 160	SHEET NO. 80
			CONTRACT NO. 78522	
ILLINOIS FED. AID PROJECT				

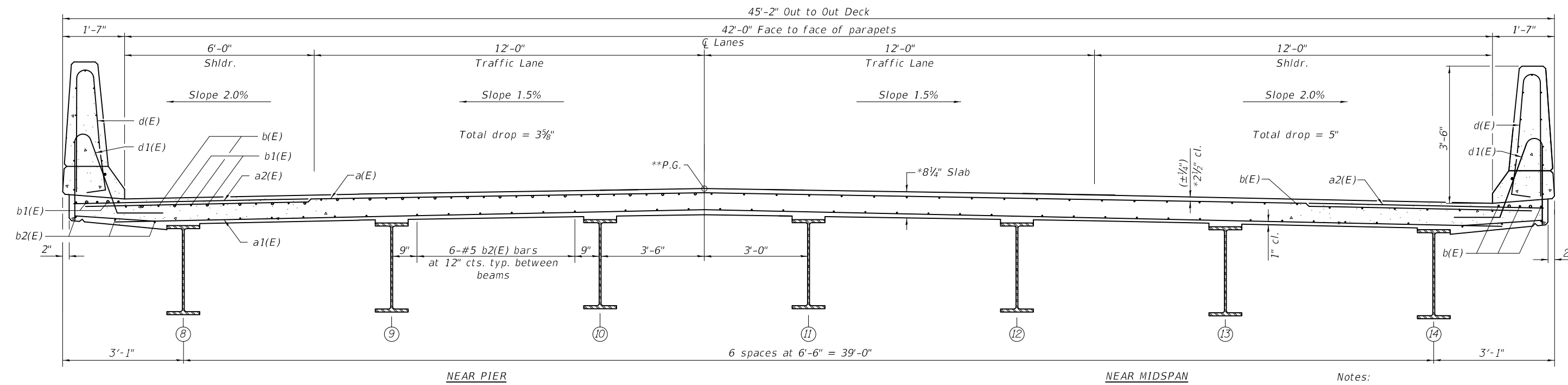


*Order a(E) & a1(E) bars full length. Cut to fit skew and use remainder of bars in opposite end.

**Field cut to fit as req'd at end of deck

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

PARTIAL PLAN



CROSS SECTION
(SN 091-0076 looking south)

*Prior to grinding
**After grinding

Notes:
See sheet 13 of 37 for superstructure details and Bill of Material.
Bars indicated thus 20 x 3-#5 etc. indicates 20 lines of bars with 3 lengths per line.

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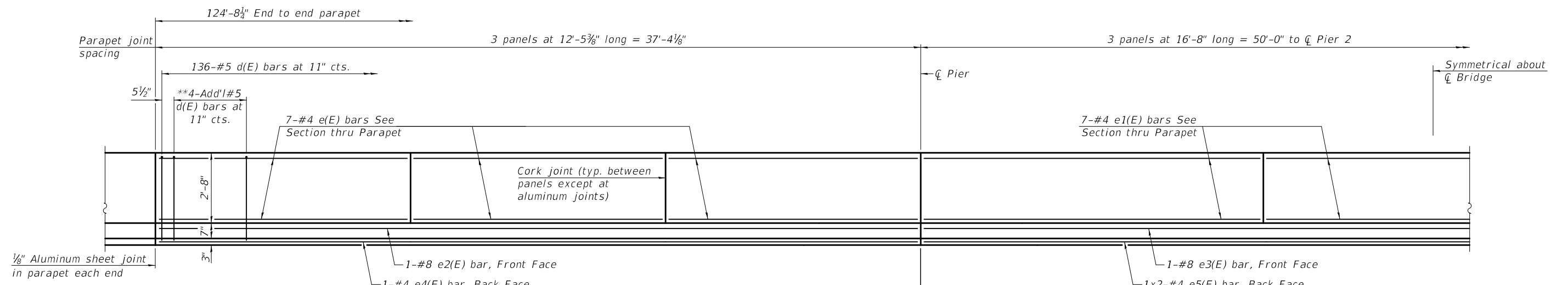
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUPERSTRUCTURE (SB)
STRUCTURE NO. 091-0076 (SB)

SHEET NO. 12 OF 37 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	(91-4)B-1		160	81
CONTRACT NO. 78522				

ILLINOIS FED. AID PROJECT

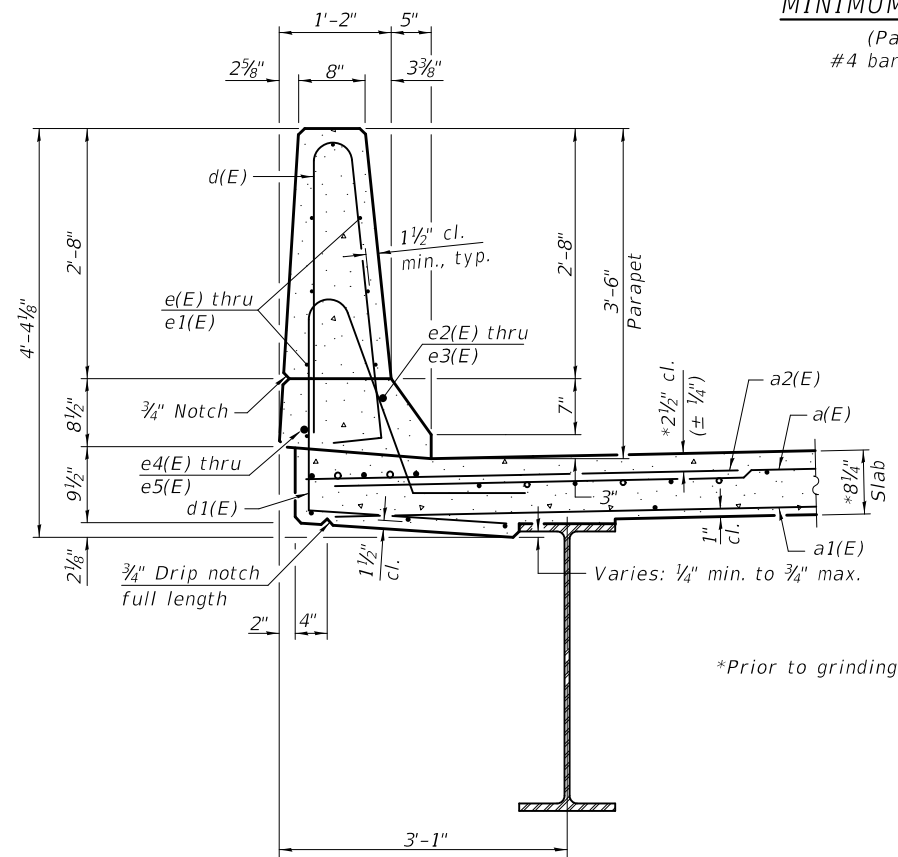


1/8" Aluminum sheet joint in parapet each end

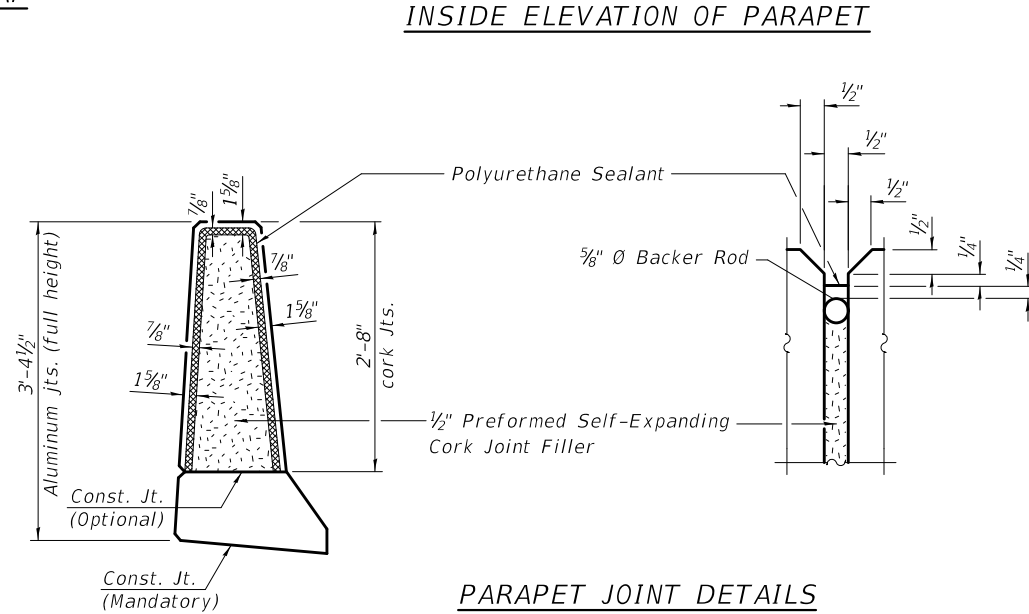
** Space btwn #5d(e), typical at parapet ends and each side of aluminum sheet joints.

MINIMUM BAR LAP
(Parapet)
#4 bar = 2'-5"

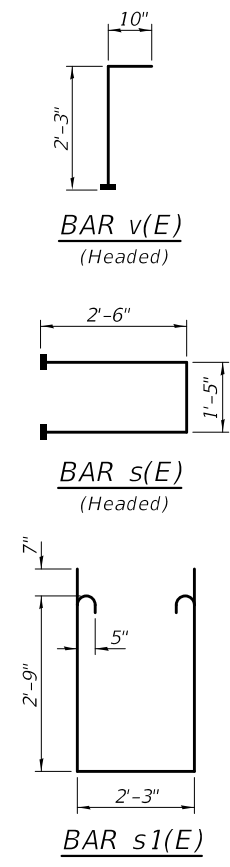
INSIDE ELEVATION OF PARAPET



SECTION THRU PARAPET



PARAPET JOINT DETAILS

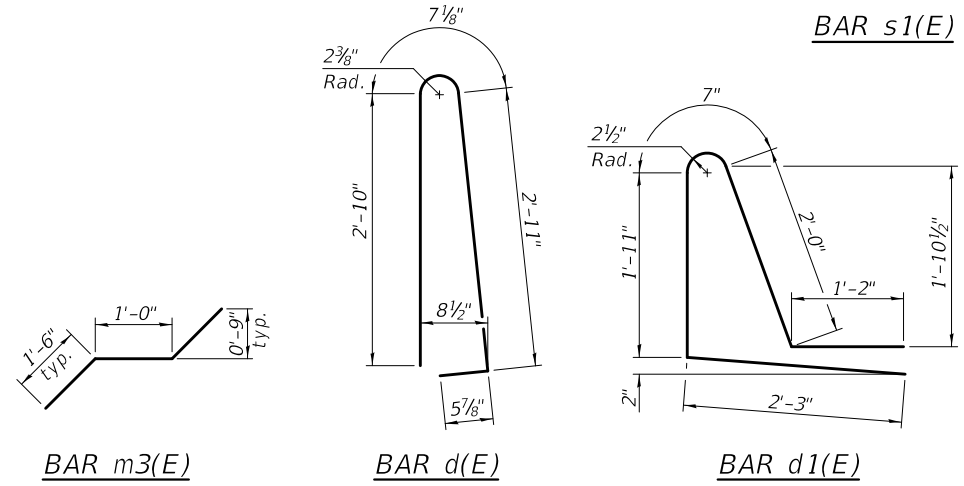


SUPERSTRUCTURE BILL OF MATERIAL

Bar	No.	Size	Length	Shape
a(E)	228	#5	44'-6"	—
a1(E)	148	#5	44'-0"	—
a2(E)	456	#6	6'-6"	—
a3(E)	8	#5	27'-8"	—
b(E)	240	#5	27'-9"	—
b1(E)	90	#6	29'-0"	—
b2(E)	168	#5	33'-9"	—
d(E)	288	#5	6'-10"	⌒
d1(E)	272	#5	7'-11"	⌒
e(E)	84	#4	12'-1"	—
e1(E)	42	#4	16'-4"	—
e2(E)	4	#8	37'-0"	—
e3(E)	2	#8	49'-8"	—
e4(E)	4	#4	37'-0"	—
e5(E)	4	#4	26'-1"	—
m(E)	12	#6	27'-10"	—
m1(E)	24	#6	7'-0"	—
m2(E)	8	#6	3'-2"	—
m3(E)	28	#5	4'-0"	—
s(E)	88	#5	6'-5"	⌒
s1(E)	88	#5	8'-11"	⌒
v(E)	90	#5	3'-1"	⌒
Reinforcement Bars, Epoxy Coated			Lbs.	46010
Concrete Superstructure			Cu. Yds.	208.9

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

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



STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

SUPERSTRUCTURE DETAILS (SB) STRUCTURE NO. 091-0076 (SB)

SHEET NO. 13 OF 37 SHEETS

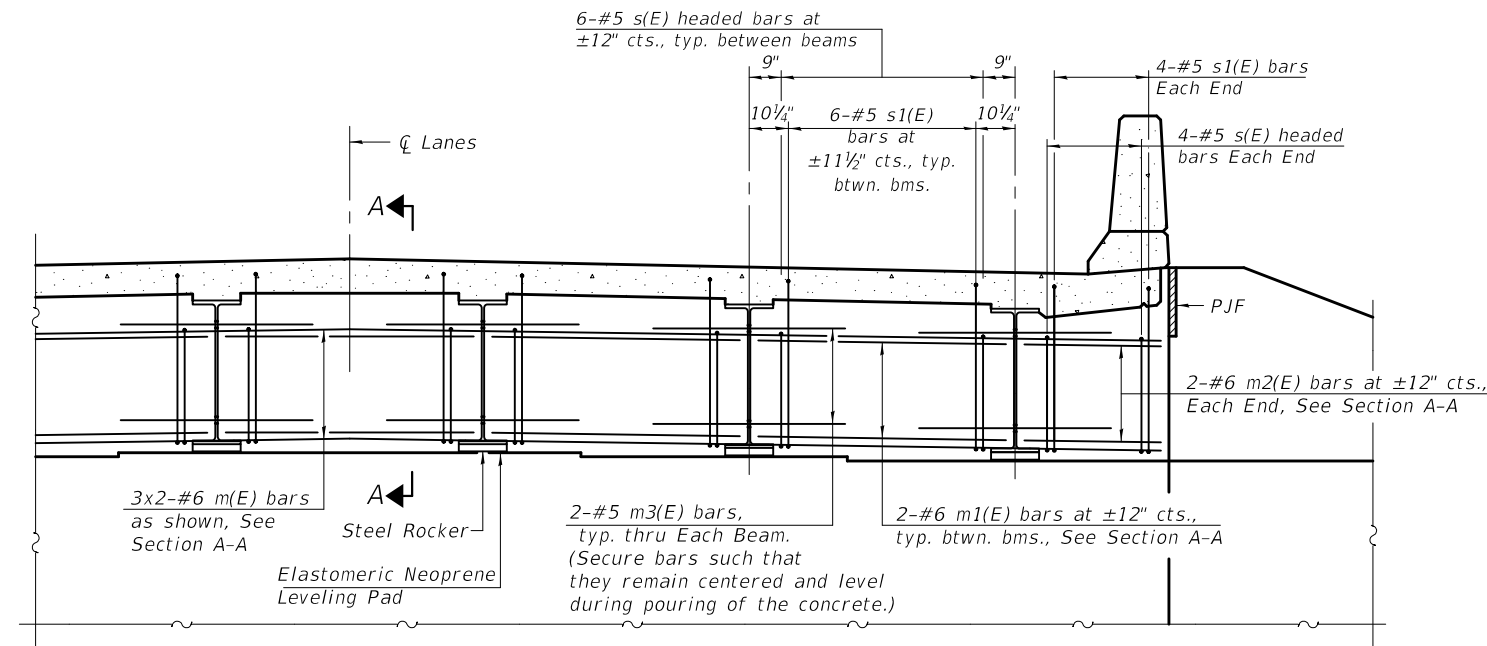
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57	(91-41B-1)	UNION	160	82
				CONTRACT NO. 78522

ILLINOIS FED. AID PROJECT

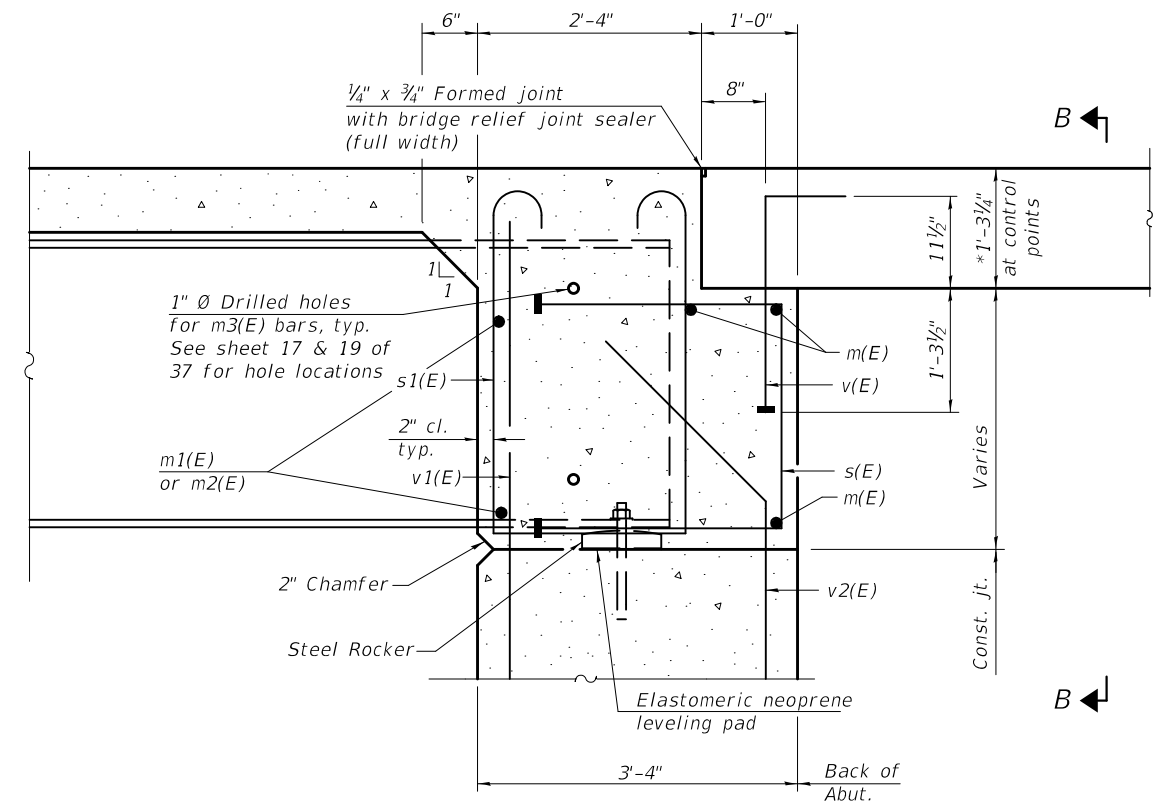
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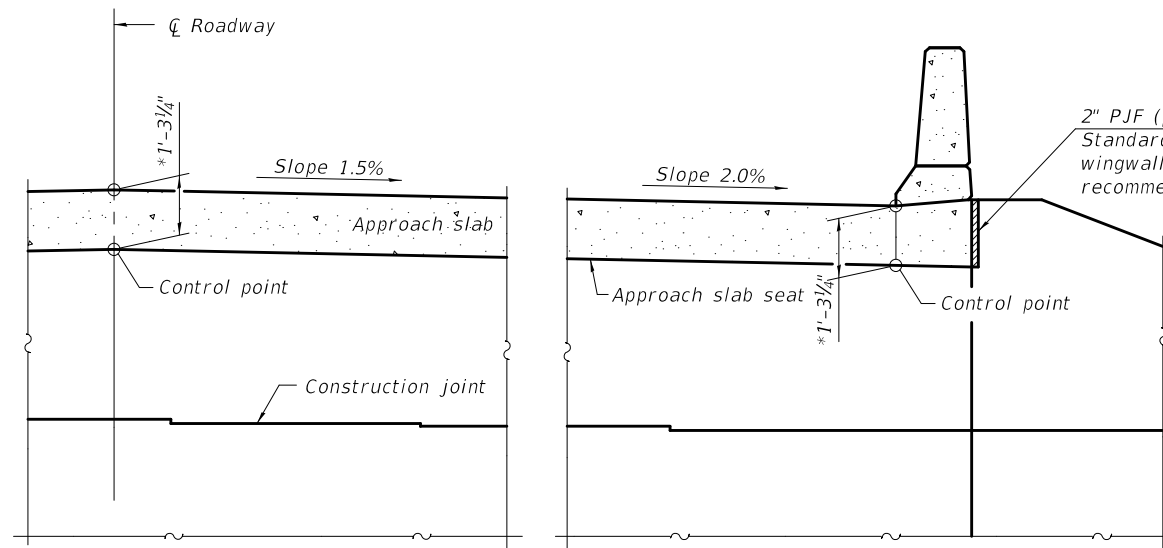
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DIAPHRAGM AT ABUTMENT

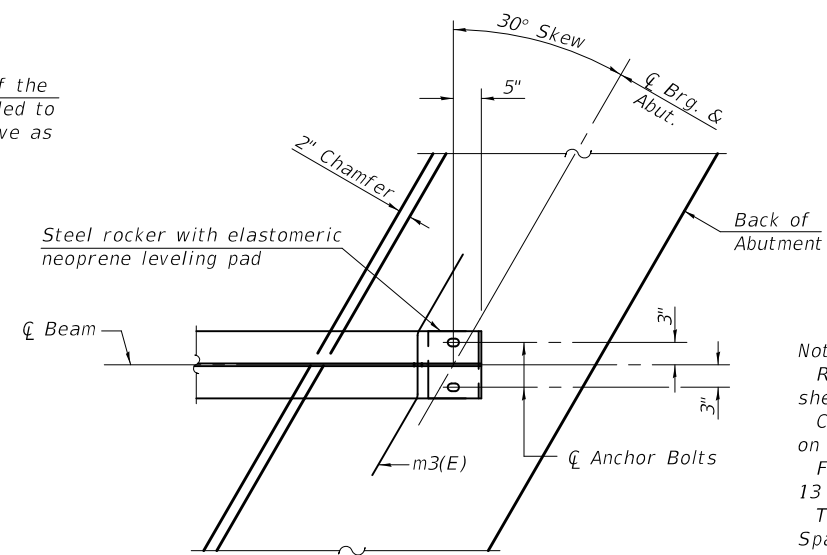


SECTION A-A
(at Rt. L's)



SECTION B-B

*Prior to grinding



PLAN AT ABUTMENT
(Showing bottom flange of beam)

Notes:
 Reinforcement bars in diaphragm are billed with superstructure on sheets 11 and 13 of 37.
 Concrete in diaphragm is included with Concrete Superstructure on sheet 11 and 13 of 37.
 For details of bars s(E), s1(E), m3(E), and v(E) see sheets 11 and 13 of 37.
 The s(E) and s1(E) bars shall be placed parallel to the beams. Spacing for these bars shall be at right angles to the beams.
 The approach slab seat shall have a constant slope determined from the control points shown.
 For bearing details see sheets 21 and 22 of 37.
 Beams shall be braced for stability during erection and remain braced until deck is poured and cured.
 The v1(E) and v2(E) bars are included with the abutment drawings on sheets 23, 24, 25, and 26 of 37.

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DIAPHRAGM DETAILS
STRUCTURE NO. 091-0075 (NB) & 091-0076 (SB)

SHEET NO. 14 OF 37 SHEETS

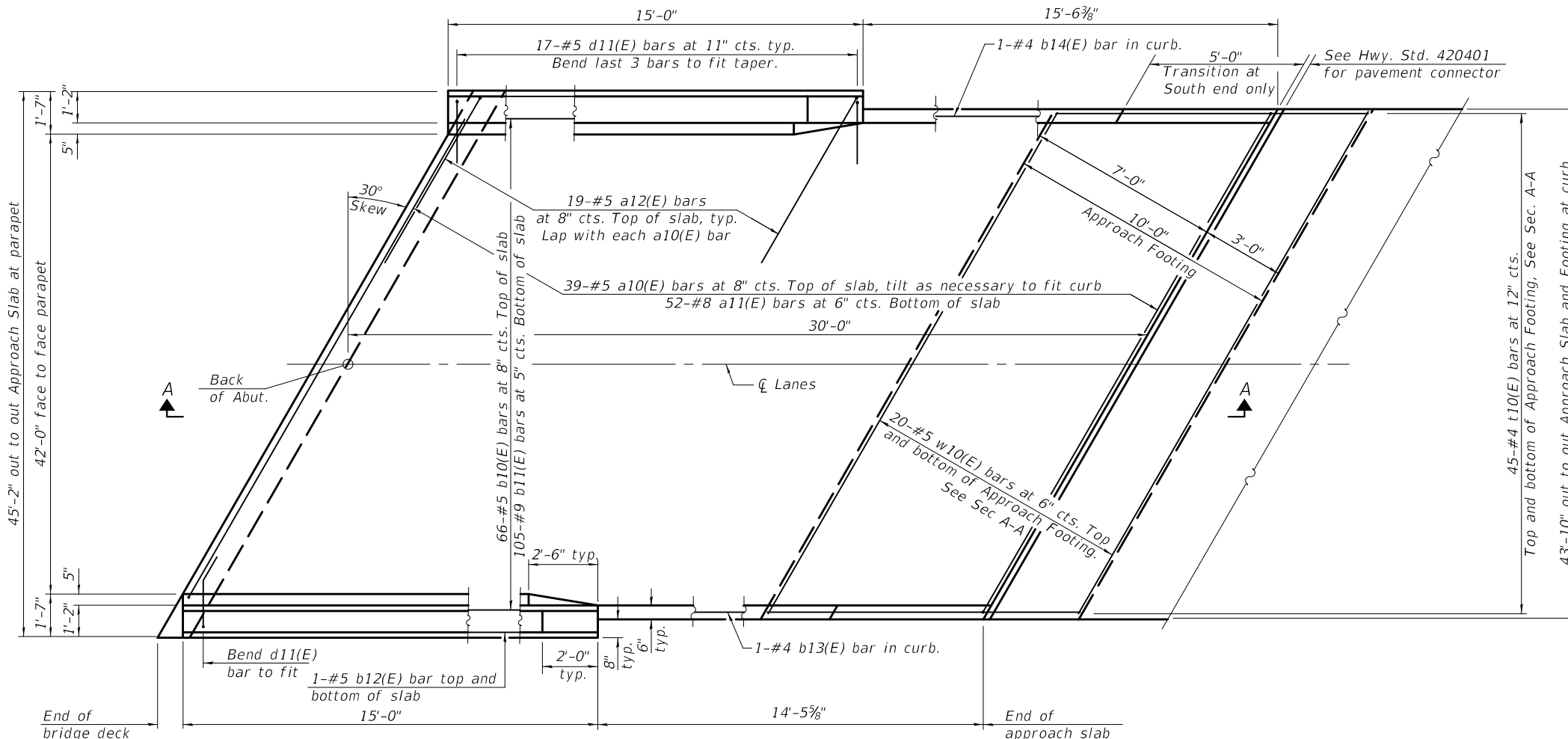
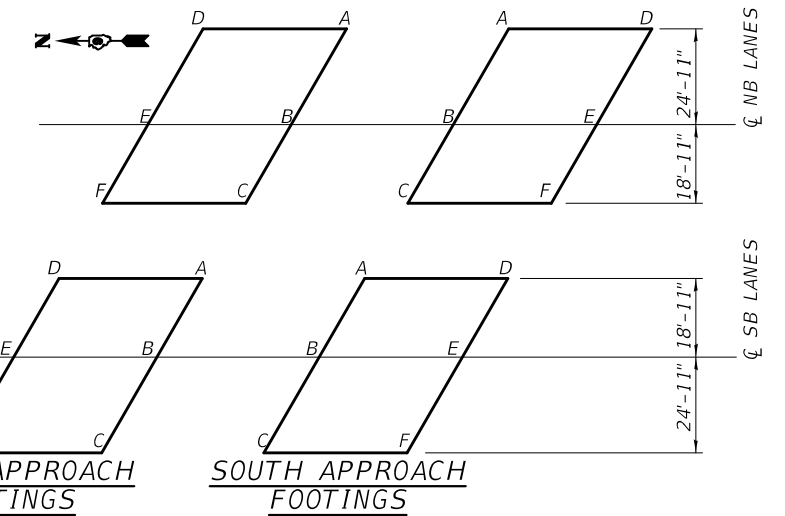
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57	(91-4)B-1	UNION	160	83
CONTRACT NO. 78522				
ILLINOIS FED. AID PROJECT				

**NORTHBOUND (NB)
TOP AND BOTTOM ELEVATIONS
FOR APPROACH FOOTING**

Point	North Approach		South Approach	
	Top	Bottom	Top	Bottom
A	420.14	419.31	420.98	420.15
B	420.52	419.69	421.37	420.54
C	420.14	419.31	420.98	420.15
D	420.08	419.25	421.04	420.21
E	420.47	419.64	421.42	420.59
F	420.08	419.25	421.04	420.21

**SOUTHBOUND (SB)
TOP AND BOTTOM ELEVATIONS
FOR APPROACH FOOTING**

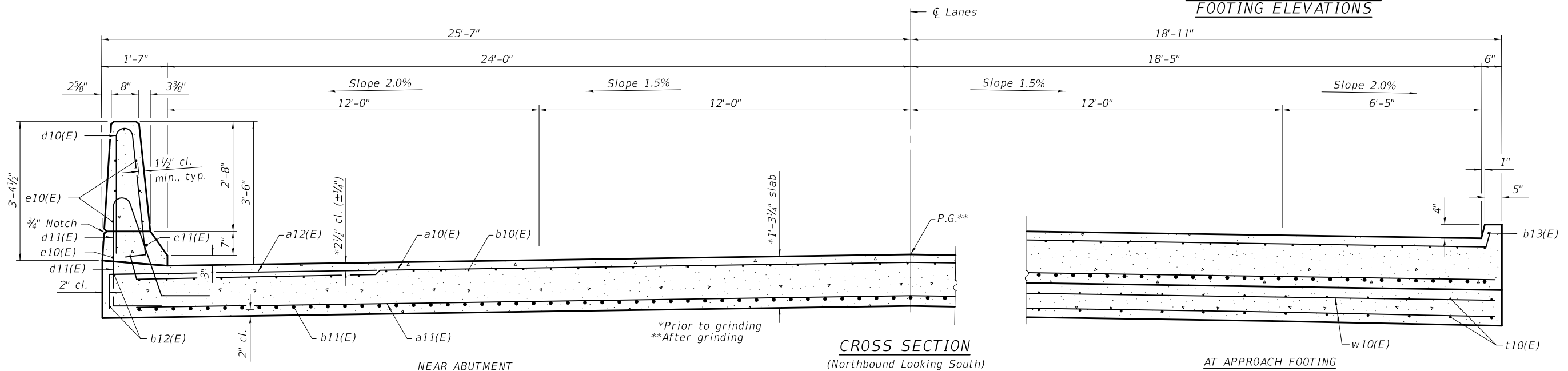
Point	North Approach		South Approach	
	Top	Bottom	Top	Bottom
A	420.56	419.73	421.63	420.80
B	420.81	419.98	421.89	421.06
C	420.28	419.45	421.34	420.51
D	420.49	419.66	421.70	420.87
E	420.74	419.91	421.97	421.14
F	420.20	419.37	421.42	420.59



PLAN

See sheet 16 of 37 for Section A-A, bill of material and additional details

LEGEND FOR APPROACH FOOTING ELEVATIONS



CROSS SECTION

(Northbound Looking South)
(Southbound Looking North)

AT APPROACH FOOTING

(Sheet 1 of 2)

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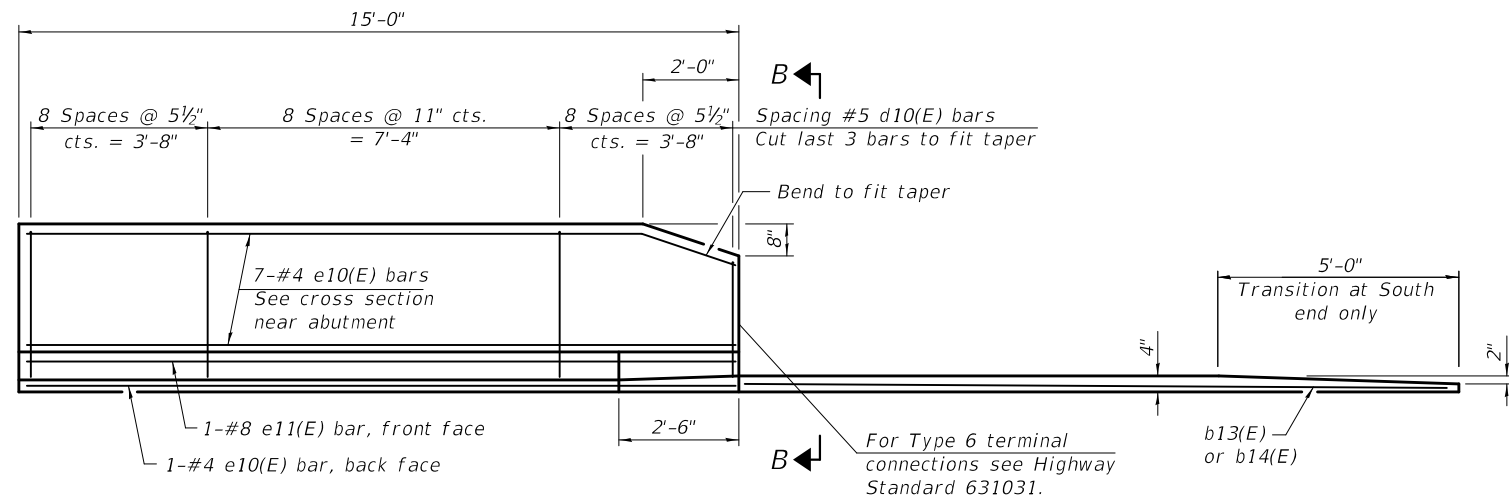
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**BRIDGE APPROACH SLAB DETAILS
STRUCTURE NO. 091-0075 (NB) & 091-0076 (SB)**

SHEET NO. 15 OF 37 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	(91-41B-1)	UNION	160	84
CONTRACT NO. 78522				

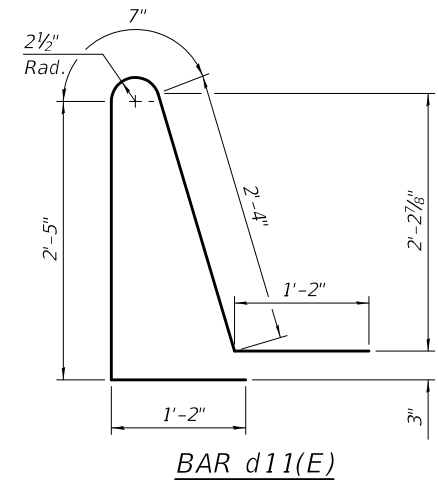
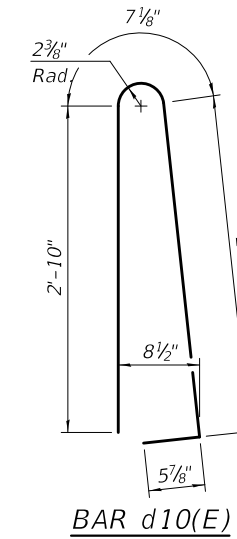
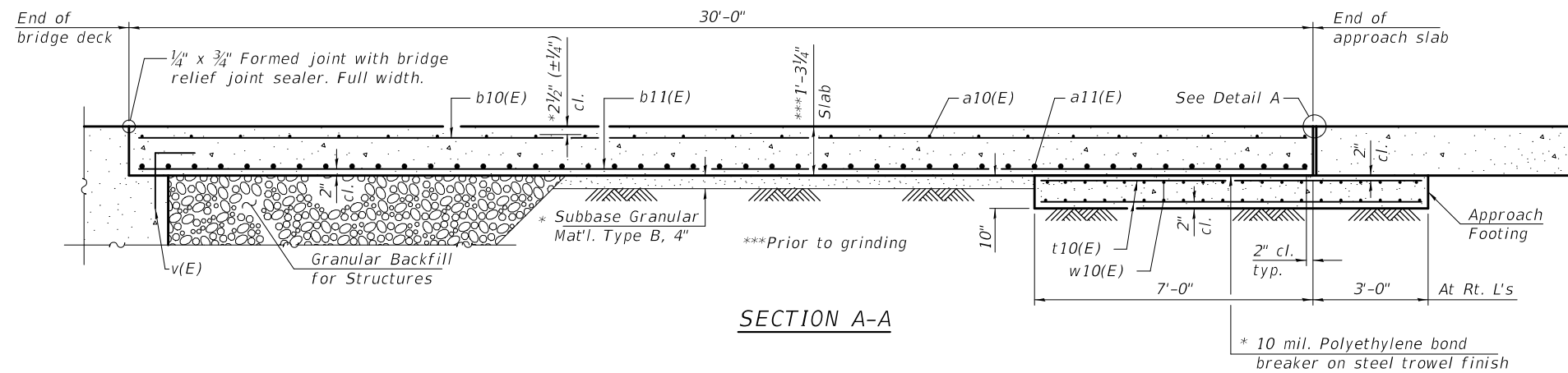
ILLINOIS FED. AID PROJECT



Notes:

The joint opening shall be adjusted for temperature per Article 520.04 of the Standard Specifications. However, since this detail is for jointless structures, the length of bridge used to calculate the adjustment shall be equal to half the total bridge length plus the length of the bridge approach slab.
 Parapet concrete shall be paid for as Concrete Superstructure.
 Approach slab shall be paid for as Concrete Superstructure (Approach Slab).
 Approach footing concrete shall be paid for as Concrete Structures.
 The approach footing maximum applied service bearing pressure (Qmax) = 2.0 ksf.
 Cost of excavation for approach footing included with Concrete Structures.
 For Granular Backfill for Structures and drainage treatment details, see sheet 2 of 37.

INSIDE ELEVATION OF PARAPET AND CURB

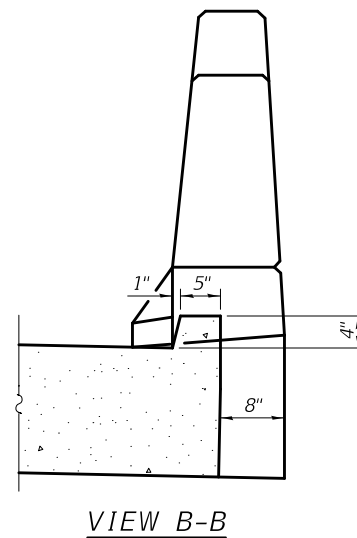
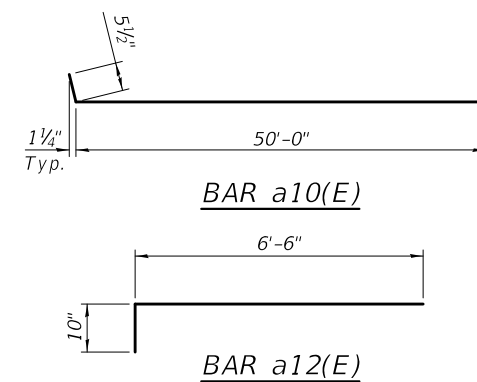
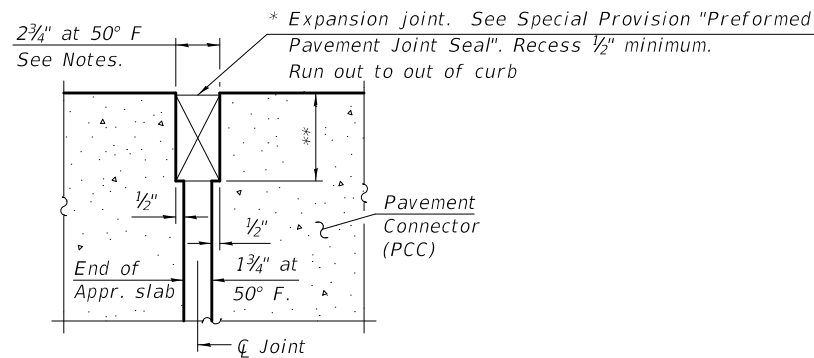


**NORTHBOUND (NB)
TWO APPROACHES
BILL OF MATERIAL**

Bar	No.	Size	Length	Shape
a10(E)	78	#5	50'-11"	U
a11(E)	104	#8	50'-2"	U
a12(E)	76	#5	7'-4"	U
b10(E)	132	#5	29'-8"	—
b11(E)	210	#9	29'-8"	—
b12(E)	8	#5	14'-8"	—
b13(E)	2	#4	14'-1"	—
b14(E)	2	#4	15'-2"	—
d10(E)	100	#5	6'-10"	U
d11(E)	68	#5	7'-8"	U
e10(E)	32	#4	14'-8"	—
e11(E)	4	#8	14'-8"	—
t10(E)	180	#4	11'-2"	—
w10(E)	80	#5	50'-2"	—
Concrete Superstructure		Cu. Yd.	7.7	
Concrete Superstructure (Approach Slab)		Cu. Yd.	125.8	
Concrete Structures		Cu. Yd.	31.3	
Reinforcement Bars, Epoxy Coated		Pound	51340	

**SOUTHBOUND (SB)
TWO APPROACHES
BILL OF MATERIAL**

Bar	No.	Size	Length	Shape
a10(E)	78	#5	50'-11"	U
a11(E)	104	#8	50'-2"	U
a12(E)	76	#5	7'-4"	U
b10(E)	132	#5	29'-8"	—
b11(E)	210	#9	29'-8"	—
b12(E)	8	#5	14'-8"	—
b13(E)	2	#4	14'-1"	—
b14(E)	2	#4	15'-2"	—
d10(E)	100	#5	6'-10"	U
d11(E)	68	#5	7'-8"	U
e10(E)	32	#4	14'-8"	—
e11(E)	4	#8	14'-8"	—
t10(E)	180	#4	11'-2"	—
w10(E)	80	#5	50'-2"	—
Concrete Superstructure		Cu. Yd.	7.7	
Concrete Superstructure (Approach Slab)		Cu. Yd.	125.8	
Concrete Structures		Cu. Yd.	31.3	
Reinforcement Bars, Epoxy Coated		Pound	51340	



* Cost included with Concrete Superstructure (Approach Slab).

** Per manufacturer recommendations

(Sheet 2 of 2)

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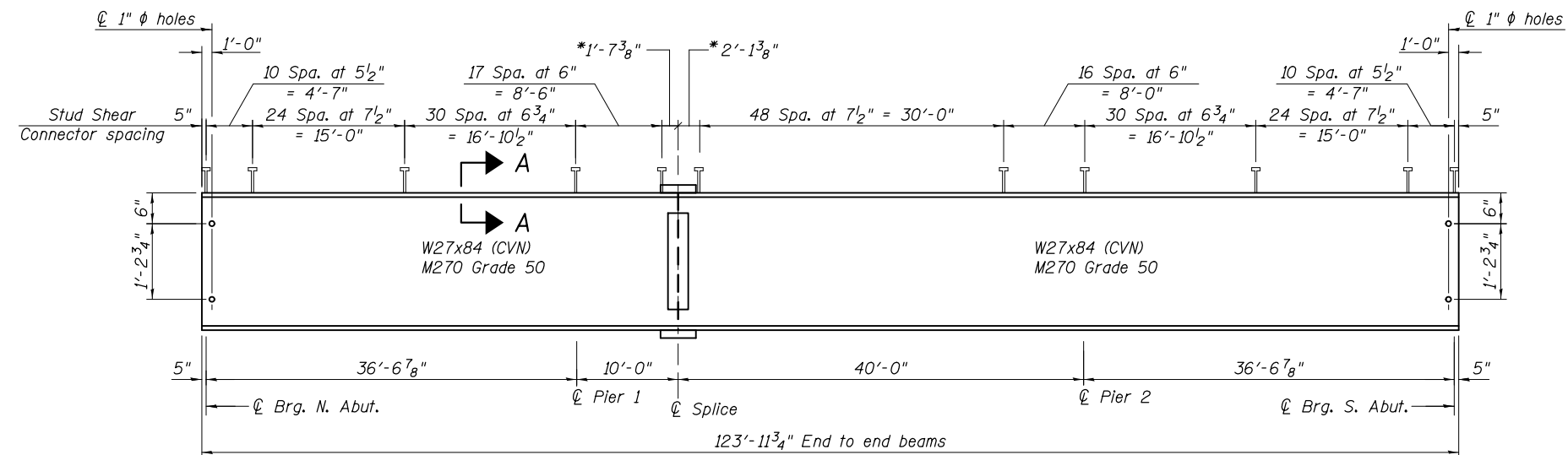
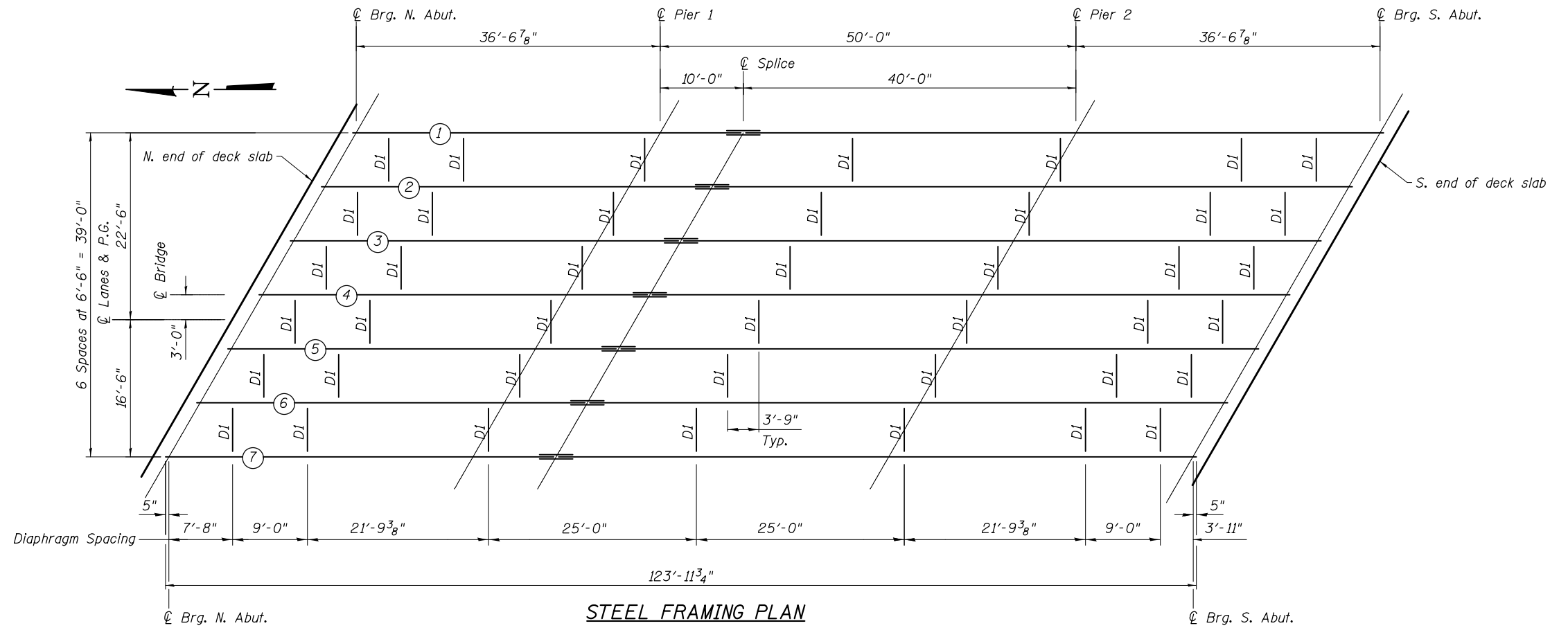
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**BRIDGE APPROACH SLAB DETAILS
STRUCTURE NO. 091-0075 (NB) & 091-0076 (SB)**

SHEET NO. 16 OF 37 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	(91-4)B-1	UNION	160	85
CONTRACT NO. 78522				
ILLINOIS FED. AID PROJECT				

Notes:
 See sheet 18 of 37 for additional steel details.
 All diaphragms shall be installed as steel is erected and secured with erection pins and bolts except as otherwise noted. Individual diaphragms at supports may be temporarily disconnected to install bearing anchor rods.
 Load carrying components designated (CVN) denotes Charpy-V-Notch impact energy requirements, zone 2.



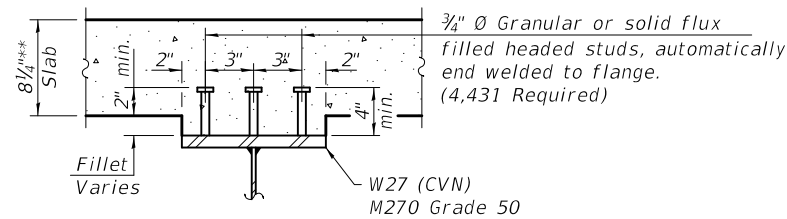
BEAM ELEVATION

* Omit shear connectors over splices

TOP OF BEAM ELEVATIONS

(For fabrication only)

Beam	☉ Brg. N. Abut.	☉ Pier 1	☉ Splice	☉ Pier 2	☉ Brg. S. Abut.
1	420.81	420.99	421.04	421.24	421.43
2	420.92	421.10	421.15	421.36	421.54
3	421.03	421.21	421.25	421.45	421.64
4	421.11	421.29	421.33	421.53	421.72
5	421.08	421.26	421.31	421.51	421.69
6	420.96	421.14	421.19	421.39	421.57
7	420.82	421.00	421.05	421.25	421.44



SECTION A-A

**Prior to grinding

Notes:
 Elevations shown do not include deflection and are intended only for use in fabrication of steel beams.
 Elevations at splice locations are top of flange (not splice plate).

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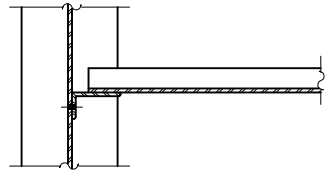
**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**STEEL FRAMING PLAN & DETAILS (NB)
 STRUCTURE NO. 091-0075 (NB)**

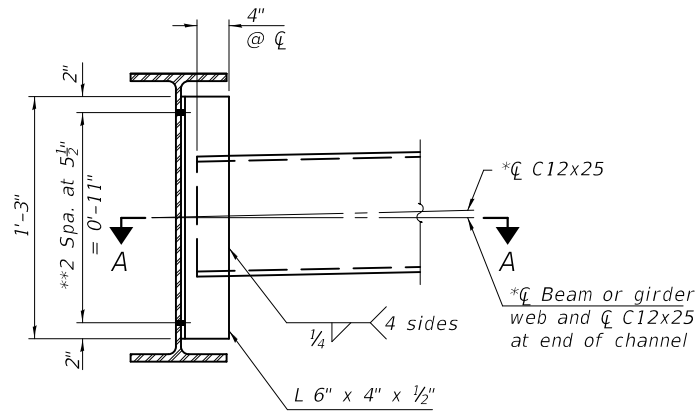
SHEET NO. 17 OF 37 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	(91-4)B-1	UNION	160	86

CONTRACT NO. 78522
 ILLINOIS FED. AID PROJECT



SECTION A-A



	Abut.		Pier	
	Interior	Exterior	Interior	Exterior
LLDF	0.707	0.530	0.707	0.530
OCF	1.12	1.12	-	-
RDC1 (k)	10.1	9.9	37.8	37.4
RDC2 (k)	1.9	1.9	7.2	7.2
RDW (k)	3.9	3.9	14.6	14.6
R _L (k)	46.7	35.0	79.3	59.4
R _{IM} (k)	13.2	9.9	18.9	13.4
R _{Total} (k)	75.8	60.6	157.8	132.0

		0.4 Sp. 1 or 0.6 Sp. 3		Pier	0.5 Sp. 2
I _s	(in ⁴)	2850		2850	2850
I _{c(n)}	(in ⁴)	9262		9262	9262
I _{c(3n)}	(in ⁴)	7033		7033	7033
I _{c(cr)}	(in ⁴)	-		4515	-
S _s	(in ³)	213		213	213
S _{c(n)}	(in ³)	344		344	344
S _{c(3n)}	(in ³)	313		313	313
S _{c(cr)}	(in ³)	-		264	-
DC1	(k/ft)	0.755		0.755	0.755
MDC1	(k)	65.0		150.0	90.8
DC2	(k/ft)	0.148		0.148	0.148
MDC2	(k)	12.4		28.8	17.5
DW	(k/ft)	0.300		0.300	0.300
MDW	(k)	25.2		58.3	35.4
LLDF		0.650		0.631	0.615
M _{L + IM}	(k)	327.3		400.1	350.1
M _u (Strength I)	(k)	705.7		1011.2	800.3
Øf M _n	(k)	1793.3		1338.3	1793.3
f _s DC1	(ksi)	3.66		6.82	5.12
f _s DC2	(ksi)	0.49		1.31	0.67
f _s DW	(ksi)	0.99		2.65	1.36
f _s (L+IM)	(ksi)	11.60		18.18	12.20
f _s (Service II)	(ksi)	20.22		34.41	23.01
0.95R _h F _{yf}	(ksi)	47.50		47.50	47.50
f _s (Total)(Strength I)	(ksi)	26.97		45.95	30.63
Øf F _n	(ksi)	50		50	50
V _f	(k)	21.72		20.77	-

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 (in⁴ and in³).

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 (in⁴ and in³).

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 (in⁴ and in³).

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 (in⁴ and in³).

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

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

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

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

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

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

M_{L + IM}: Un-factored live load moment plus dynamic load allowance (impact) (kip-ft.).

M_u (Strength I): Factored design moment (kip-ft.).

Øf M_n: Compact composite positive moment capacity computed according to Article 6.10.7.1 or non-slender negative moment capacity according to Article A6.1.1 or A6.1.2 (kip-ft.).

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

f_s DC2: Un-factored stress at edge of flange for controlling steel flange due to vertical composite dead loads as calculated below (ksi).

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).

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).

f_s (Service II): Sum of stresses as computed below (ksi).

0.95R_hF_{yf}: Composite stress capacity for Service II loading according to Article 6.10.4.2 (ksi).

f_s (Total)(Strength I): Sum of stresses as computed below on non-compact section (ksi).

Øf F_n: Non-Compact composite positive or negative stress capacity for Strength I loading according to Article 6.10.7 or 6.10.8 (ksi).

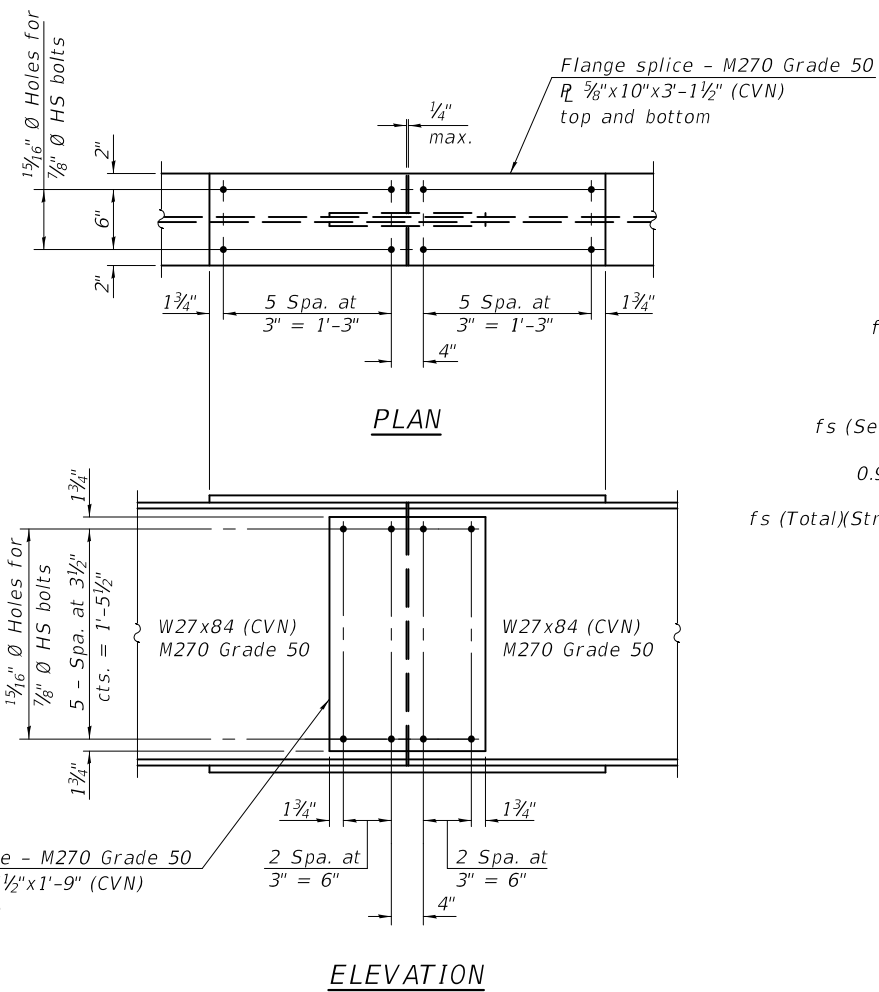
V_f: Maximum factored shear range in span computed according to Article 6.10.10.

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

OCF: Obtuse correction factor computed according to Table 4.6.2.2.3c-1 or as simplified in Section 3.3.1 of the Bridge Manual.

INTERIOR DIAPHRAGM (D1)
(42 Required)

Note:
Two hardened washers required for each set of oversized holes.
*Alternate channels are permitted to facilitate material acquisition. Calculated weight of structural steel is based on the lighter section.
The alternate, if utilized, shall be provided at no additional cost to the Department.
**3/4" Ø HS bolts, 1 1/16" Ø holes



PLAN
ELEVATION
SPlice DETAIL
(7 Required)

Web splice - M270 Grade 50
R 3/8"x1'-7 1/2"x1'-9" (CVN)
each side

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

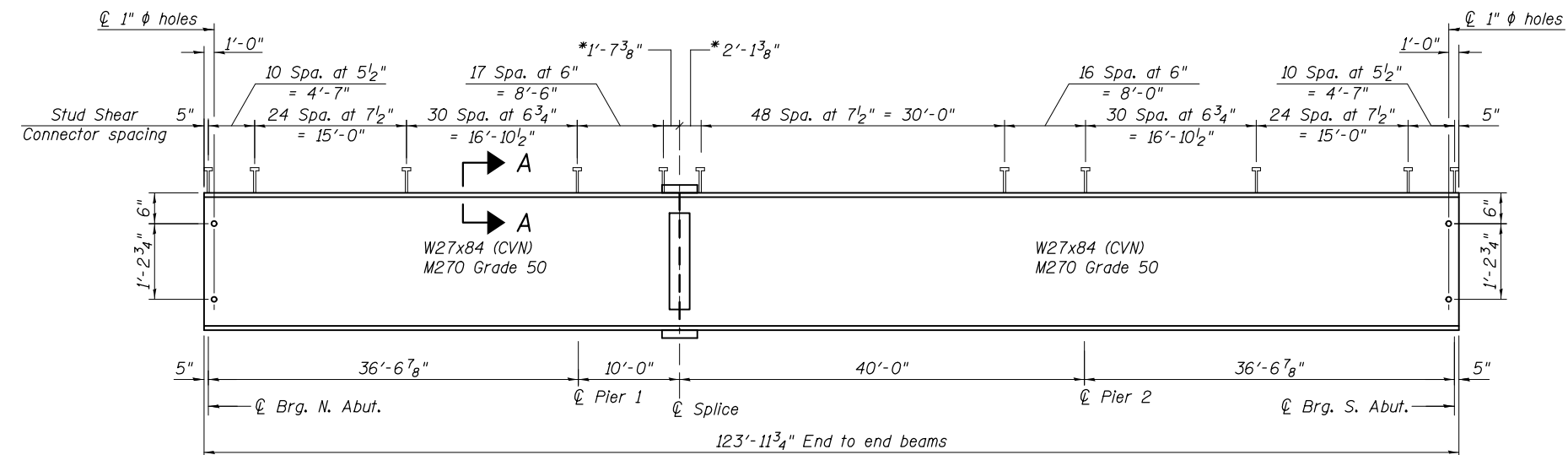
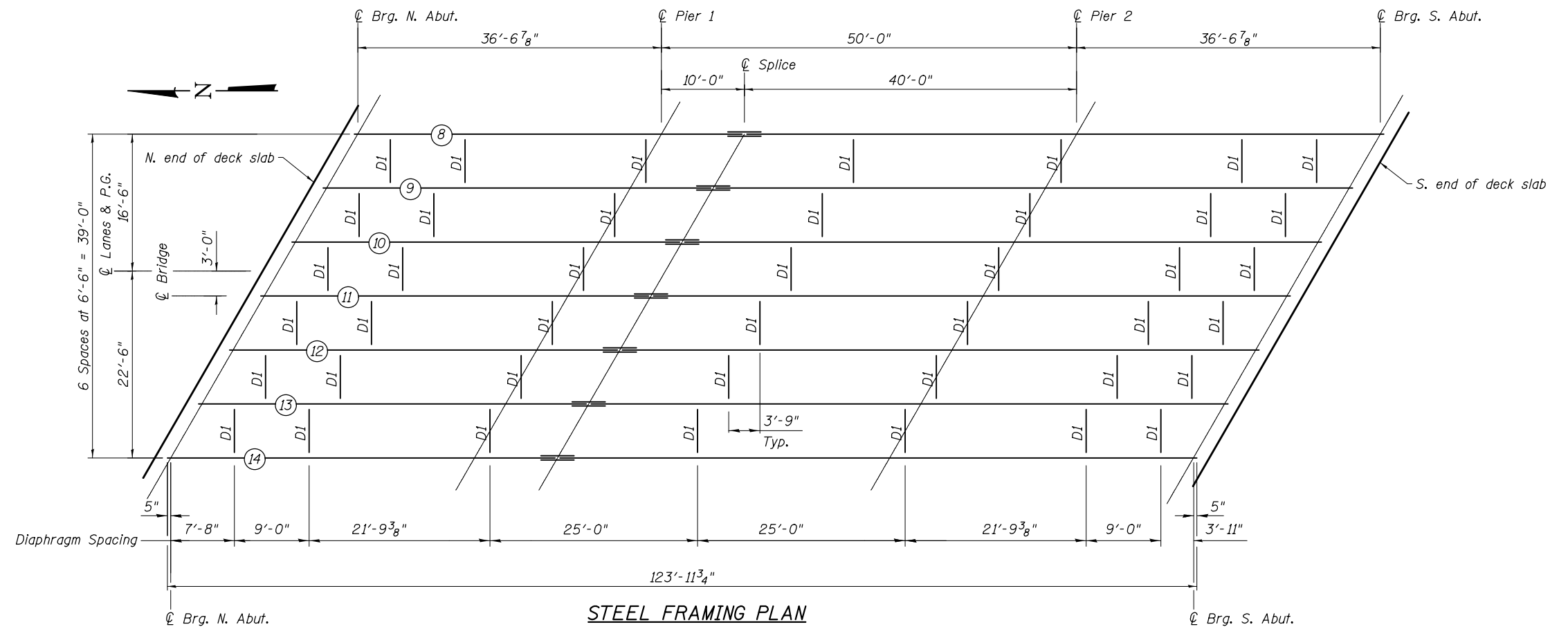
STEEL FRAMING DETAILS (NB)
STRUCTURE NO. 091-0075 (NB)

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	(91-41B-1)	UNION	160	87
CONTRACT NO. 78522				

SHEET NO. 18 OF 37 SHEETS

ILLINOIS FED. AID PROJECT

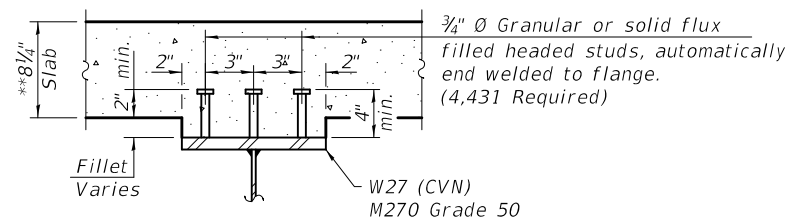
Notes:
 See sheet 20 of 37 for additional steel details.
 All diaphragms shall be installed as steel is erected and secured with erection pins and bolts except as otherwise noted. Individual diaphragms at supports may be temporarily disconnected to install bearing anchor rods.
 Load carrying components designated (CVN) denotes Charpy-V-Notch impact energy requirements, zone 2.



* Omit shear connectors over splices

TOP OF BEAM ELEVATIONS
 (For fabrication only)

Beam	☉ Brg. N. Abut.	☉ Pier 1	☉ Splice	☉ Pier 2	☉ Brg. S. Abut.
8	421.25	421.48	421.55	421.80	422.04
9	421.35	421.58	421.65	421.90	422.13
10	421.42	421.65	421.72	421.97	422.21
11	421.40	421.64	421.71	421.96	422.19
12	421.28	421.52	421.59	421.84	422.07
13	421.14	421.37	421.44	421.69	421.93
14	420.99	421.22	421.29	421.54	421.77



**Prior to grinding

Notes:
 Elevations shown do not include deflection and are intended only for use in fabrication of steel beams.
 Elevations at splice locations are top of flange (not splice plate).

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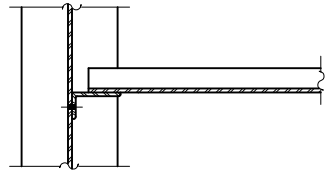
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 DEPARTMENT OF TRANSPORTATION**

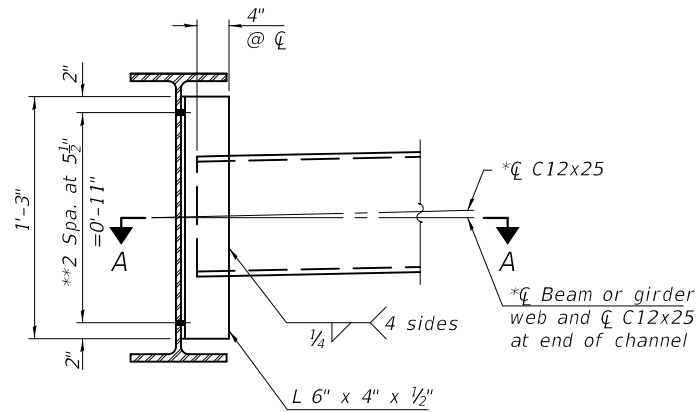
**STEEL FRAMING PLAN & DETAILS (SB)
 STRUCTURE NO. 091-0076 (SB)**

SHEET NO. 19 OF 37 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	(91-4)B-1	UNION	160	88
CONTRACT NO. 78522			ILLINOIS FED. AID PROJECT	



SECTION A-A



INTERIOR DIAPHRAGM (D1)
(42 Required)

Note:

Two hardened washers required for each set of oversized holes.

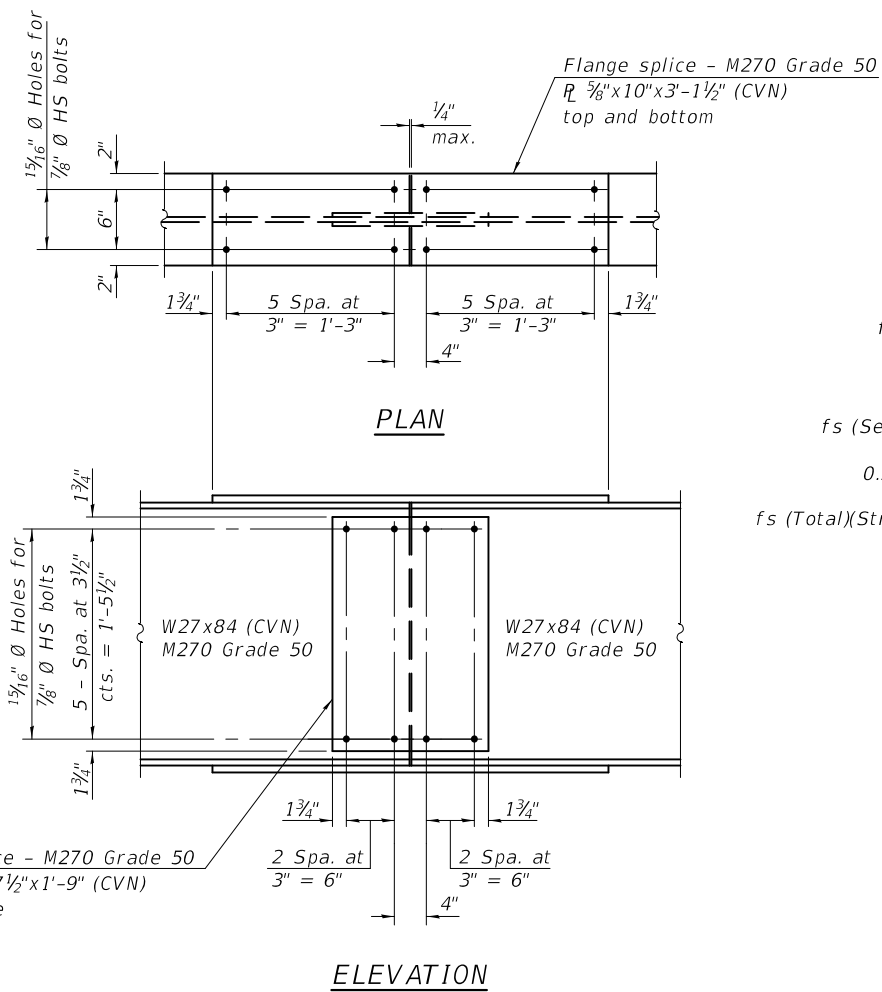
*Alternate channels are permitted to facilitate material acquisition. Calculated weight of structural steel is based on the lighter section.

The alternate, if utilized, shall be provided at no additional cost to the Department.

**3/4" Ø HS bolts, 1 1/16" Ø holes

	Abut.		Pier	
	Interior	Exterior	Interior	Exterior
LLDF	0.707	0.530	0.707	0.530
OCF	1.12	1.12	-	-
RDC1 (k)	10.1	9.9	37.8	37.4
RDC2 (k)	1.9	1.9	7.2	7.2
RDW (k)	3.9	3.9	14.6	14.6
R _L (k)	46.7	35.0	79.3	59.4
R _{IM} (k)	13.2	9.9	18.9	13.4
R _{Total} (k)	75.8	60.6	157.8	132.0

		INTERIOR GIRDER MOMENT TABLE		
		0.4 Sp. 1 or 0.6 Sp. 3	Pier	0.5 Sp. 2
Is	(in ⁴)	2850	2850	2850
Ic(n)	(in ⁴)	9262	9262	9262
Ic(3n)	(in ⁴)	7033	7033	7033
Ic(cr)	(in ⁴)	-	4515	-
Ss	(in ³)	213	213	213
Sc(n)	(in ³)	344	344	344
Sc(3n)	(in ³)	313	313	313
Sc(cr)	(in ³)	-	264	-
DC1	(k/ft)	0.755	0.755	0.755
MDC1	(k)	65.0	150.0	90.8
DC2	(k/ft)	0.148	0.148	0.148
MDC2	(k)	12.4	28.8	17.5
DW	(k/ft)	0.300	0.300	0.300
MDW	(k)	25.2	58.3	35.4
LLDF		0.650	0.631	0.615
M _L + IM	(k)	327.3	400.1	350.1
Mu (Strength I)	(k)	705.7	1011.2	800.3
Øf Mn	(k)	1793.3	1338.3	1793.3
fs DC1	(ksi)	3.66	6.82	5.12
fs DC2	(ksi)	0.49	1.31	0.67
fs DW	(ksi)	0.99	2.65	1.36
fs (L+IM)	(ksi)	11.60	18.18	12.20
fs (Service II)	(ksi)	20.22	34.41	23.01
0.95Rh Fyf	(ksi)	47.50	47.50	47.50
fs (Total)(Strength I)	(ksi)	26.97	45.95	30.63
Øf Fn	(ksi)	50	50	50
Vf	(k)	21.72	20.77	-



ELEVATION

SPLICE DETAIL

(7 Required)

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

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

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

Ic(cr), Sc(cr): Composite moment of inertia and section modulus of the steel and longitudinal deck reinforcement, used for computing fs (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).

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

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

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

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

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

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

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

Mu (Strength I): Factored design moment (kip-ft.).

1.25 (MDC1 + MDC2) + 1.5 MDW + 1.75 M_L + IM

Øf Mn: Compact composite positive moment capacity computed according to Article 6.10.7.1 or non-slender negative moment capacity according to Article A6.1.1 or A6.1.2 (kip-ft.).

fs DC1: Un-factored stress at edge of flange for controlling steel flange due to vertical non-composite dead loads as calculated below (ksi).

MDC1/ Snc

fs DC2: Un-factored stress at edge of flange for controlling steel flange due to vertical composite dead loads as calculated below (ksi).

MDC2/ Sc(3n) or MDC2/ Sc(cr) as applicable.

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

MDW/ Sc(3n) or MDW/ Sc(cr) as applicable.

fs (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 / Sc(n) or M_L + IM / Sc(cr) as applicable.

fs (Service II): Sum of stresses as computed below (ksi).

fsDC1 + fsDC2 + fsDW + 1.3 fs(L+IM)

0.95RhFyf: Composite stress capacity for Service II loading according to Article 6.10.4.2 (ksi).

fs (Total)(Strength I): Sum of stresses as computed below on non-compact section (ksi).

1.25 (fsDC1 + fsDC2) + 1.5 fsDW + 1.75 fs(L+IM)

Øf Fn: Non-Compact composite positive or negative stress capacity for Strength I loading according to Article 6.10.7 or 6.10.8 (ksi).

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

LLDF: Live Load Distribution factor computed according to Table 4.6.2.2.2b-1 and Table 4.6.2.2.2d-1.

OCF: Obtuse correction factor computed according to Table 4.6.2.2.3c-1 or as simplified in Section 3.3.1 of the Bridge Manual.

Note:
M_L and R_L include the effects of centrifugal force and superelevation.

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DRAWN -	KAH	11/17	REVISED -
CHECKED -	RTM/ELH	03/18	REVISED -

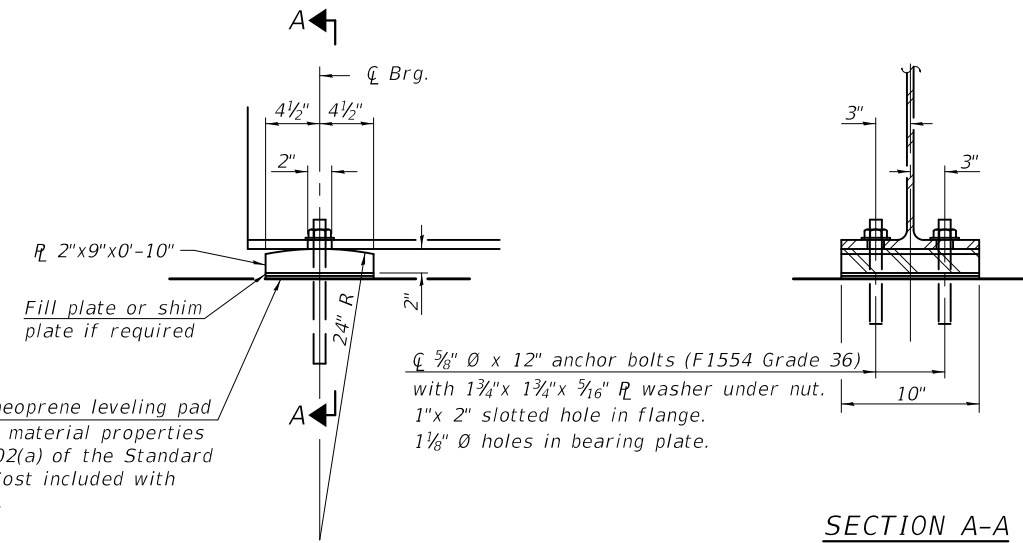
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

STEEL FRAMING DETAILS (SB)
STRUCTURE NO. 091-0076 (SB)

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	(91-41B-1)	UNION	160	89
CONTRACT NO. 78522				

SHEET NO. 20 OF 37 SHEETS

ILLINOIS FED. AID PROJECT



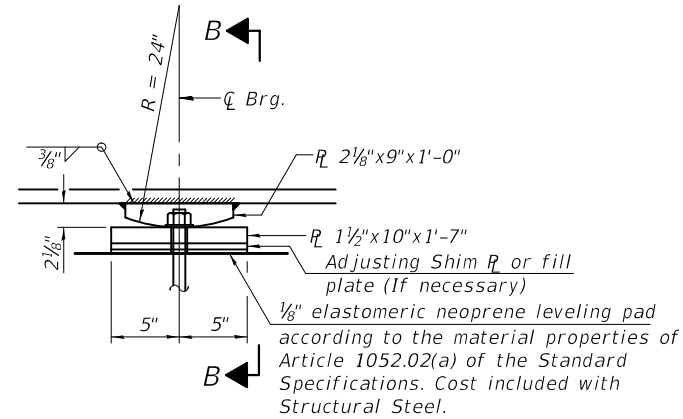
1/8" elastomeric neoprene leveling pad according to the material properties of Article 1052.02(a) of the Standard Specifications. Cost included with Structural Steel.

3/8" \varnothing x 12" anchor bolts (F1554 Grade 36) with 1 3/4" x 1 3/4" x 5/16" \varnothing washer under nut. 1" x 2" slotted hole in flange. 1 1/8" \varnothing holes in bearing plate.

ELEVATION AT ABUTMENT

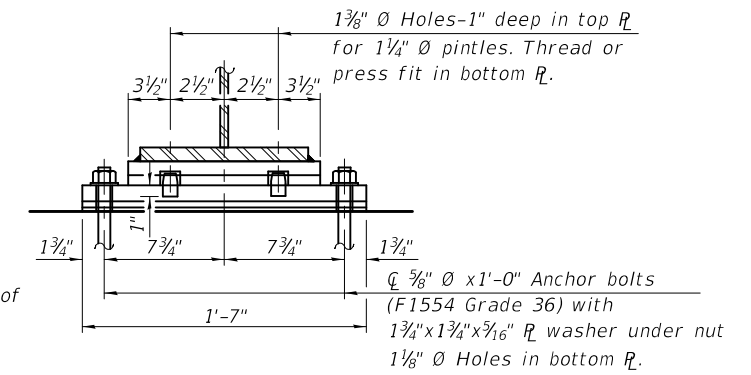
SECTION A-A

FIXED BEARING AT ABUTMENT

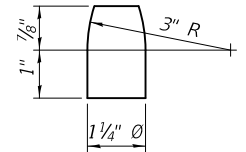


ELEVATION AT PIER

FIXED BEARING AT PIER



SECTION B-B



PINTLE

BEARING FILL PLATES

Location	Beam	Thickness
North Abutment	Beam 4	3/8"
Pier 1	Beam 4	3/8"
Pier 2	Beam 4	3/8"
South Abutment	Beam 4	3/8"

Notes:

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

Anchor bolts shall be according to Article 521.06 of the Standard Specifications.

Beams shall be braced for stability during erection and remain braced until deck is poured and cured.

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

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

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

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

The structural steel plates of the Bearing Assembly shall conform to the requirements of AASHTO M270 Grade 50.

BILL OF MATERIAL

Item	Unit	Total
Anchor Bolts, 3/8"	Each	56

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SCALE NAME = PLOT
FILE NAME = 8/19/18\78522-01-Bearing.dwg



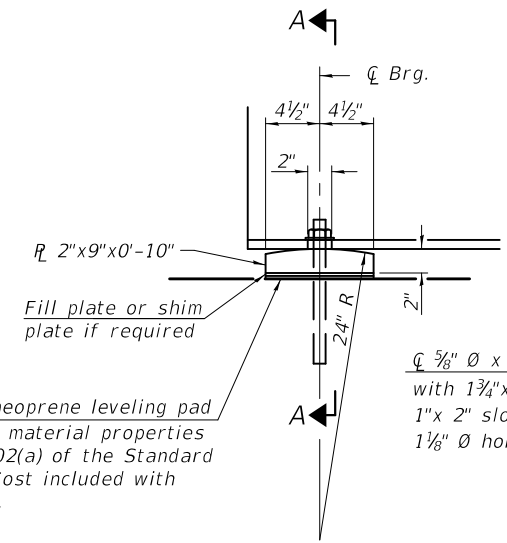
USER NAME = SKM	DESIGNED - RTM 11/17	REVISED -
ESCA PROJECT NO. 1259.08	CHECKED - RDP 11/17	REVISED -
PLOT SCALE = 0:2 '1" / in.	DRAWN - KAH 11/17	REVISED -
PLOT DATE = 3/19/2018 12:58:32 PM	CHECKED - RTM/ELH 03/18	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BEARING DETAILS (NB)
STRUCTURE NO. 091-0075 (NB)

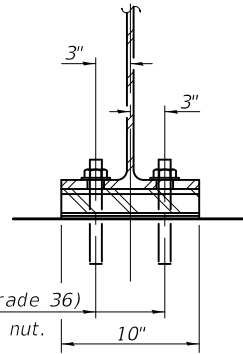
SHEET NO. 21 OF 37 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	(91-4)B-1	UNION	160	90
CONTRACT NO. 78522				
ILLINOIS FED. AID PROJECT				



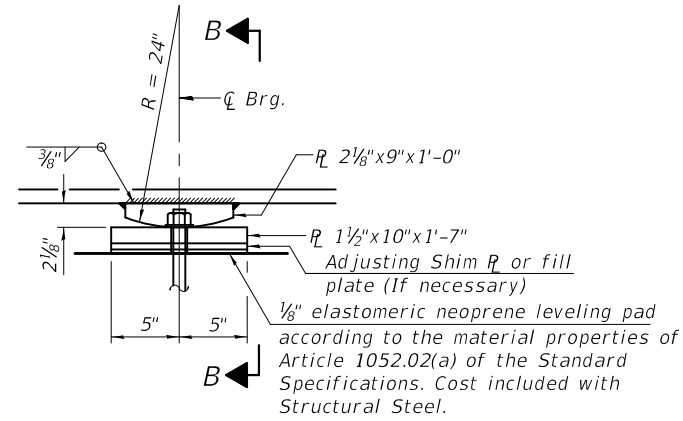
1/8" elastomeric neoprene leveling pad according to the material properties of Article 1052.02(a) of the Standard Specifications. Cost included with Structural Steel.

ELEVATION AT ABUTMENT



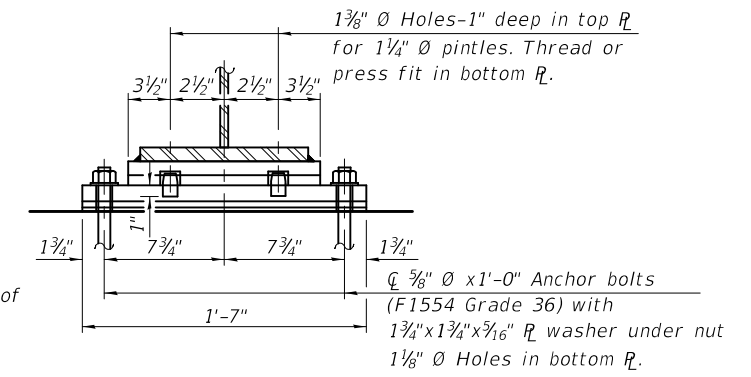
SECTION A-A

FIXED BEARING AT ABUTMENT

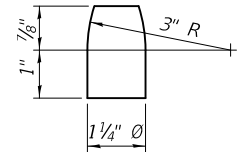


ELEVATION AT PIER

FIXED BEARING AT PIER



SECTION B-B



PINTLE

BEARING FILL PLATES

Location	Beam	Thickness
North Abutment	Beam 10	1/4"
Pier 1	Beam 10	1/4"
Pier 2	Beam 10	1/4"
South Abutment	Beam 10	1/4"

Notes:

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

Anchor bolts shall be according to Article 521.06 of the Standard Specifications.

Beams shall be braced for stability during erection and remain braced until deck is poured and cured.

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

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

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

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

The structural steel plates of the Bearing Assembly shall conform to the requirements of AASHTO M270 Grade 50.

BILL OF MATERIAL

Item	Unit	Total
Anchor Bolts, 3/8"	Each	56

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 PLOT DATE = 3/19/2018 12:58:33 PM



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 ESCA PROJECT NO. 1259.08
 PLOT SCALE = 1/8" = 1' / in.
 PLOT DATE = 3/19/2018 12:58:33 PM

DESIGNED - RTM 11/17
 CHECKED - RDP 11/17
 DRAWN - KAH 11/17
 CHECKED - RTM/ELH 03/18

REVISED -
 REVISED -
 REVISED -
 REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

BEARING DETAILS (SB)
 STRUCTURE NO. 091-0076 (SB)

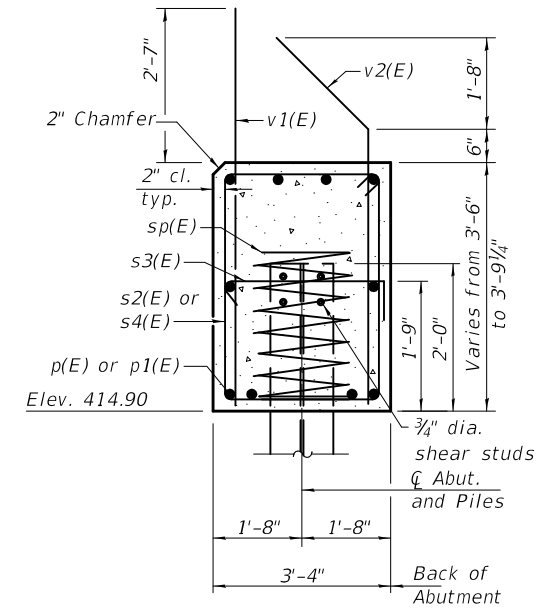
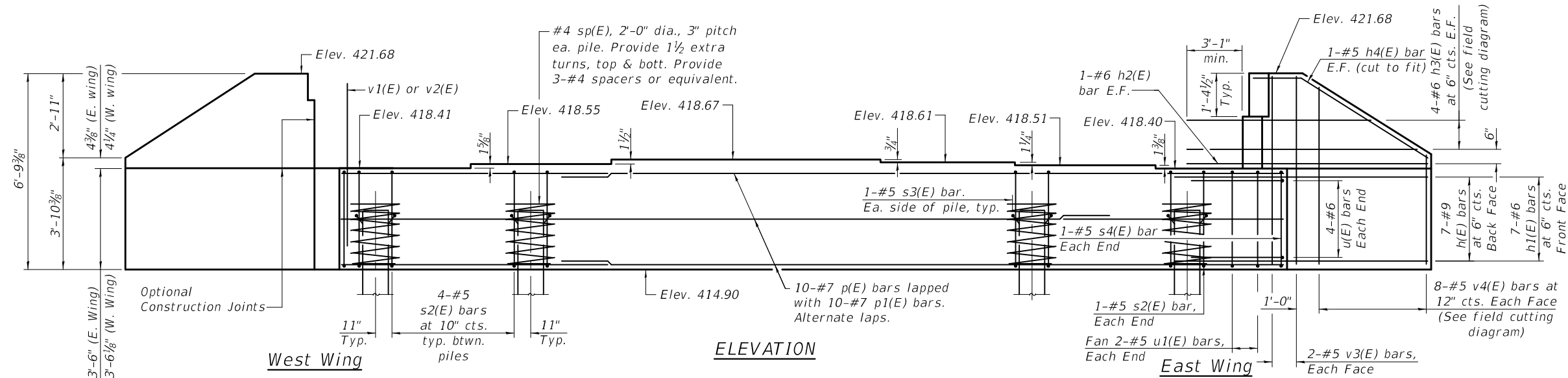
SHEET NO. 22 OF 37 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	(91-4)B-1	UNION	160	91

CONTRACT NO. 78522

ILLINOIS FED. AID PROJECT

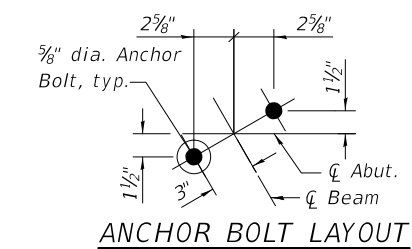
Notes:
 Pour steps monolithically with cap.
 For details of piles see sheet 31 of 37.
 Space reinforcement in cap to miss anchor bolts.



SEC. THRU ABUT.

Dimensions at right angles to abutment.

MINIMUM BAR LAP
 #7 bars = 3'-10"



ANCHOR BOLT LAYOUT

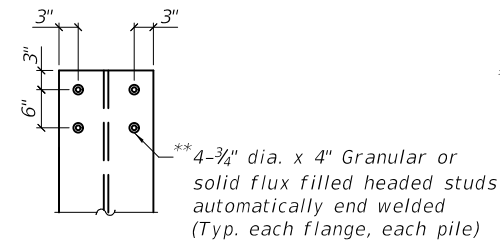
BILL OF MATERIAL

Bar	No.	Size	Length	Shape
h(E)	14	#9	16'-0"	—
h1(E)	14	#6	11'-8"	—
h2(E)	4	#6	13'-5"	—
h3(E)	8	#6	21'-0"	—
h4(E)	4	#5	10'-1"	—
p(E)	10	#7	36'-0"	—
p1(E)	10	#7	19'-10"	—
* sp(E)	12	#4	2'-0"	MMM
s2(E)	46	#5	13'-3"	□
s3(E)	24	#5	4'-5"	□
s4(E)	2	#5	14'-2"	□
u(E)	8	#6	11'-0"	—
u1(E)	4	#5	8'-2"	—
v1(E)	54	#8	5'-11"	—
v2(E)	54	#8	6'-2"	—
v3(E)	8	#5	6'-5"	—
v4(E)	16	#5	9'-7"	—
Structure Excavation			Cu. Yd.	117
Concrete Structures			Cu. Yd.	27.8
Reinforcement Bars, Epoxy Coated			Pound	5900
Furnishing Steel Piles, HP 14x102			Foot	1089
Driving Piles			Foot	1089
Pile Shoes			Each	12
Test Pile, Steel HP 14x102			Each	1

*Length is height of spiral

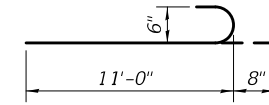
SHEAR STUD DETAIL

**Cost included with Furnishing Piles.

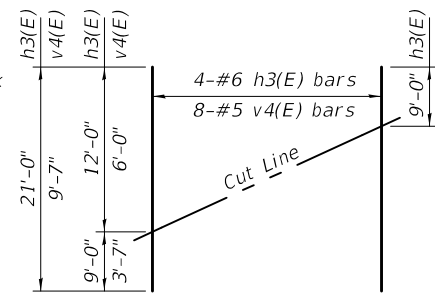


PILE DATA

Type: HP14x102
 Nominal Required Bearing: 810k
 Factored Resistance Available: 445k
 Est. Length: 99'
 No. Production Piles: 11
 No. Test Piles: 1

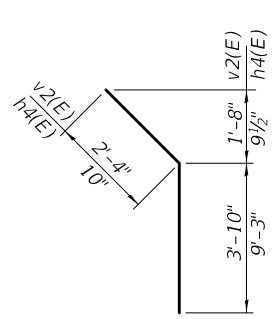


BAR h1(E)

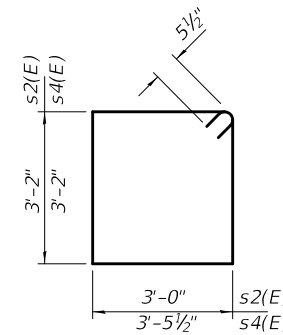


FIELD CUTTING DIAGRAM

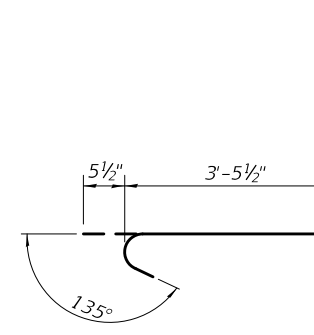
Order h3(E) and v4(E) full length. Cut as shown and use remainder of bars in opposite face.



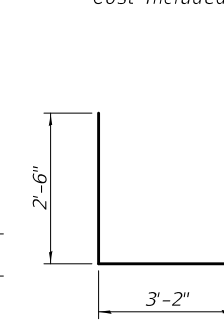
BAR v2(E) & h4(E)



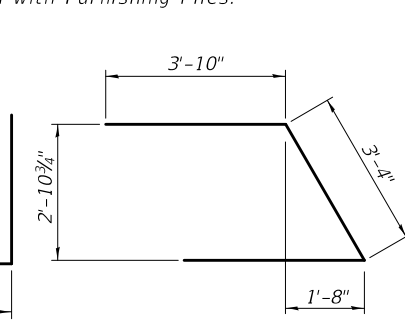
BAR s2(E) & s4(E)



BAR s3(E)



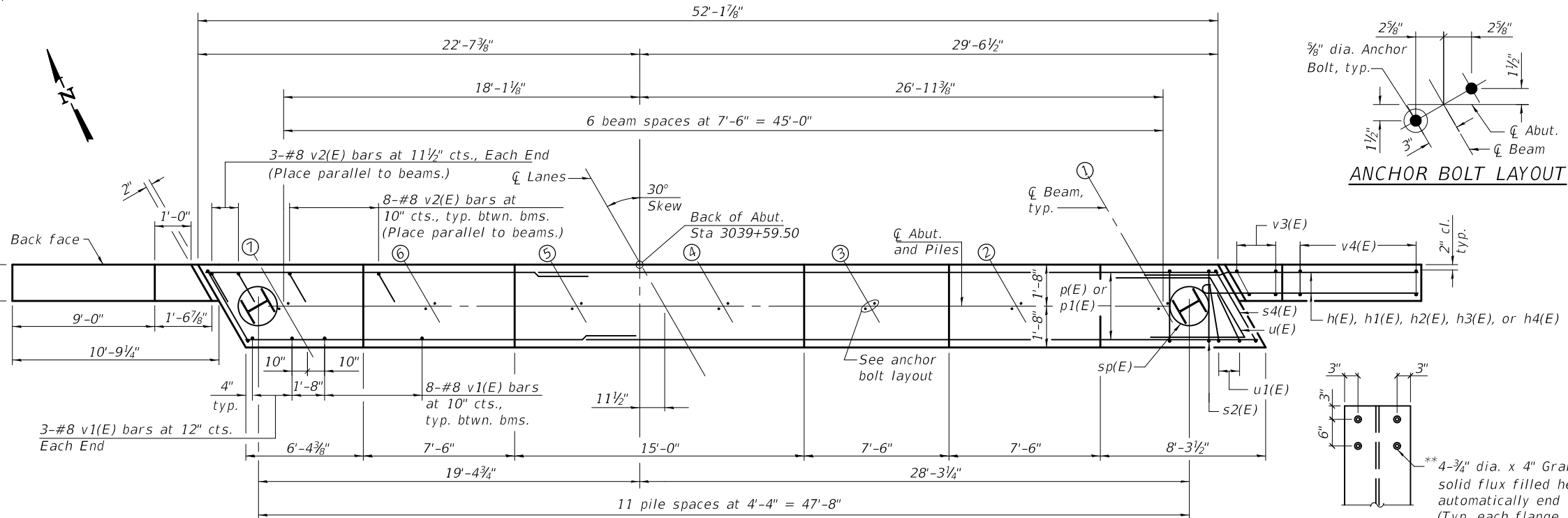
BAR u1(E)



BAR u(E)

ELEVATION

PLAN



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ESCA PROJECT NO. 1259.08	CHECKED - RDP	11/17	REVISED -
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PLOT DATE = 3/19/2018 12:58:34 PM	CHECKED - KJA/ELH	03/18	REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

NORTH ABUTMENT (NB)
 STRUCTURE NO. 091-0075 (NB)

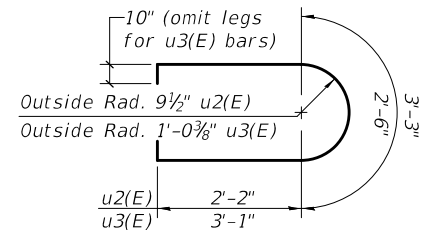
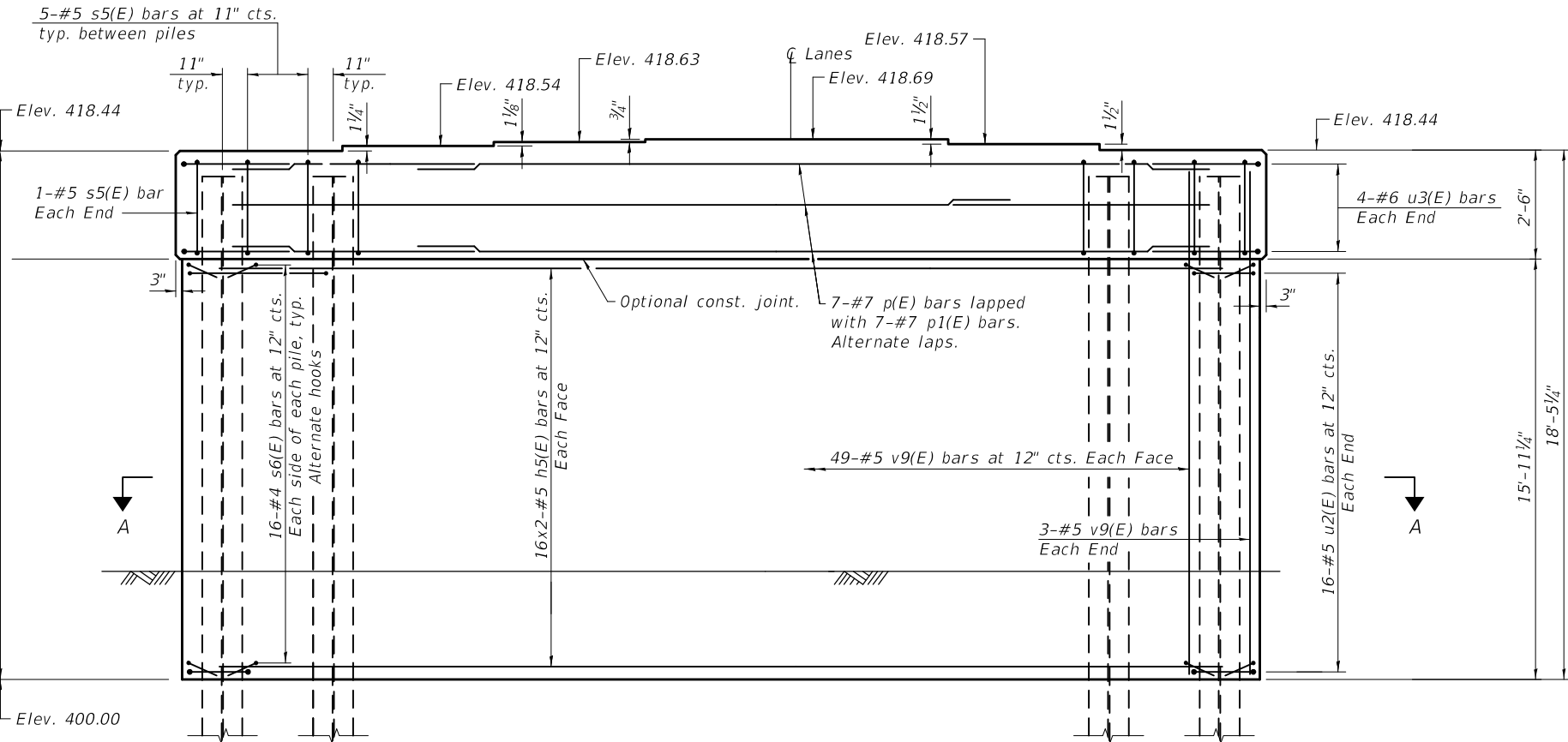
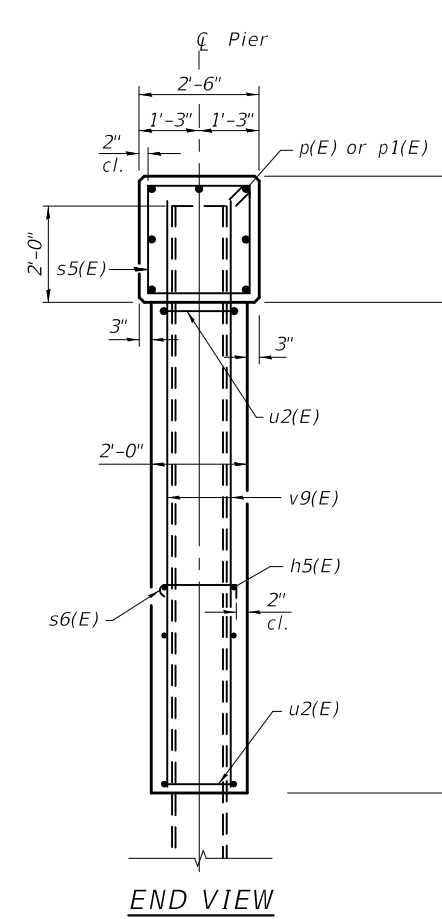
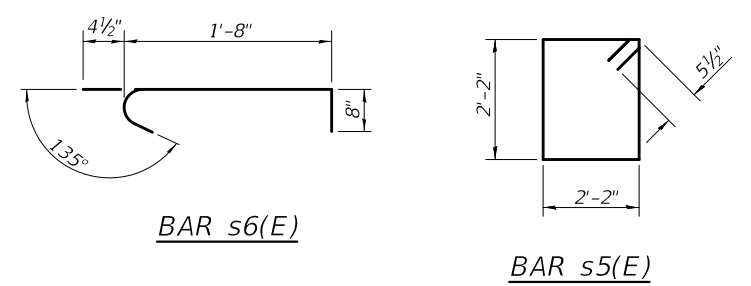
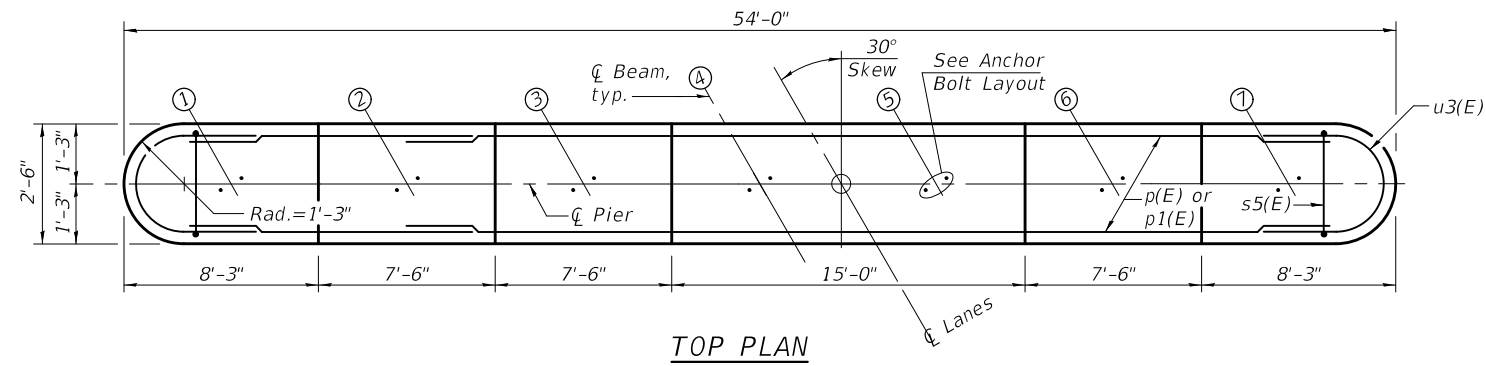
SHEET NO. 23 OF 37 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	(91-41B-1)	UNION	160	92
CONTRACT NO. 78522				
ILLINOIS FED. AID PROJECT				

Notes:
 Space reinforcement in cap to miss anchor bolts.
 Pour steps monolithically with cap.
 For details of piles, see sheet 31 of 37.
 Bars indicated thus 10x2-#7 etc. indicates 10 lines of bars with 2 lengths per line.

PILE DATA

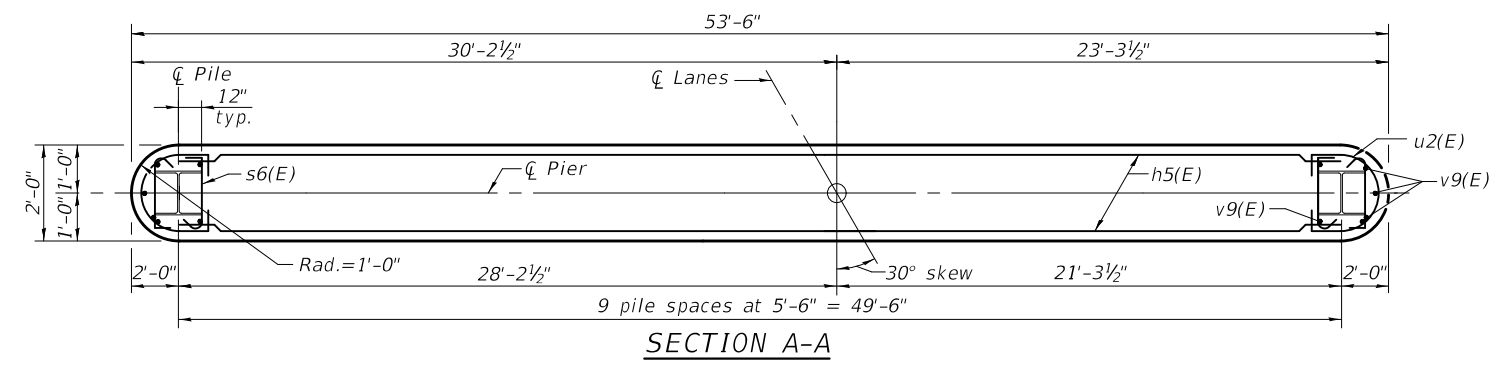
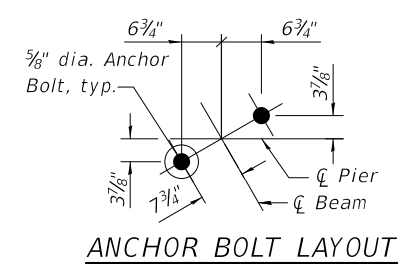
Type: HP14x89
 Nominal Required Bearing: 705kips
 Factored Resistance Available: 388kips
 Est. Length: 100'
 No. Production Piles: 9
 No. Test Piles: 1



MINIMUM BAR LAP
 #5 bars = 3'-7"
 #7 bars = 3'-10"

BILL OF MATERIAL

Bar	No.	Size	Length	Shape
h5(E)	64	#5	27'-7"	—
p(E)	7	#7	36'-0"	—
p1(E)	7	#7	19'-10"	—
s5(E)	47	#5	9'-7"	□
s6(E)	320	#4	2'-9"	┌
u2(E)	32	#5	8'-6"	U
u3(E)	8	#6	9'-5"	U
v9(E)	104	#5	18'-1"	—
Structure Excavation		Cu. Yd.	56	
Concrete Structures		Cu. Yd.	75.7	
Reinforcement Bars, Epoxy Coated		Pound	6060	
Furnishing Steel Piles, HP14x89		Foot	900	
Driving Piles		Foot	900	
Piles Shoes		Each	10	
Test Pile, Steel HP 14x89		Each	1	



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DESIGNED - KJA 11/17
 CHECKED - RDP 11/17
 DRAWN - KAH 11/17
 CHECKED - KJA/ELH 02/18

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

PIER 1 (NB)
 STRUCTURE NO. 091-0075 (NB)
 SHEET NO. 27 OF 37 SHEETS

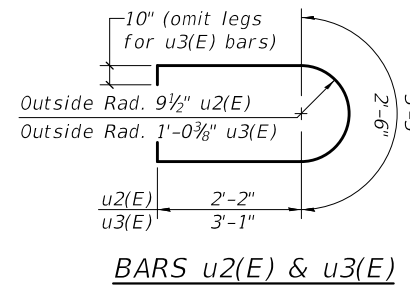
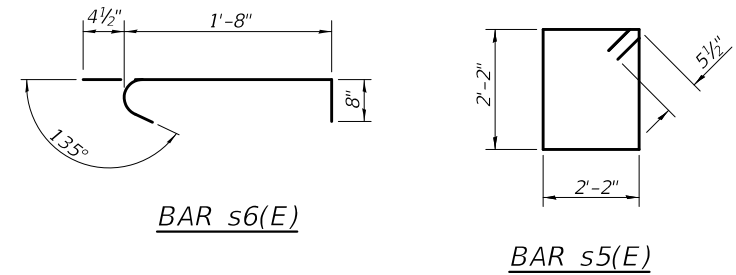
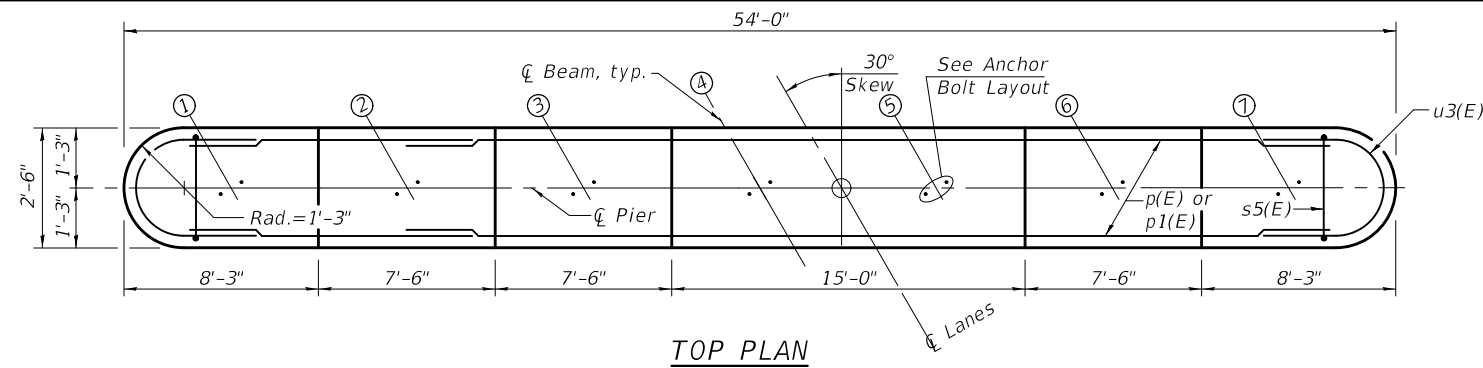
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	(91-4)B-1	UNION	160	96

CONTRACT NO. 78522
 ILLINOIS FED. AID PROJECT

Notes:
 Space reinforcement in cap to miss anchor bolts.
 Pour steps monolithically with cap.
 For details of piles, see sheet 31 of 37.
 Bars indicated thus 10x2-#7 etc. indicates 10 lines of bars with 2 lengths per line.

PILE DATA

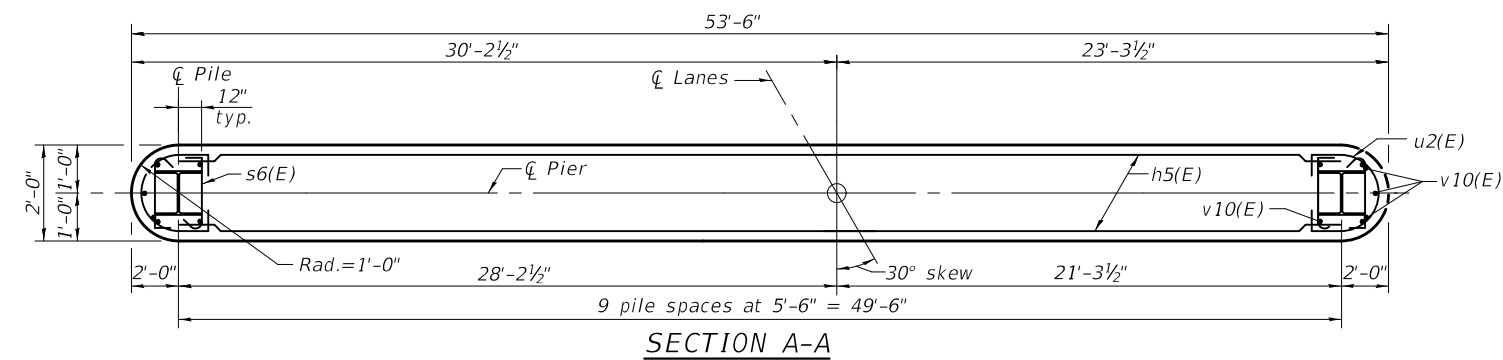
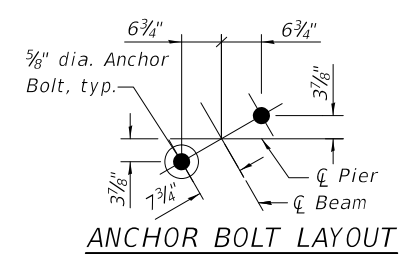
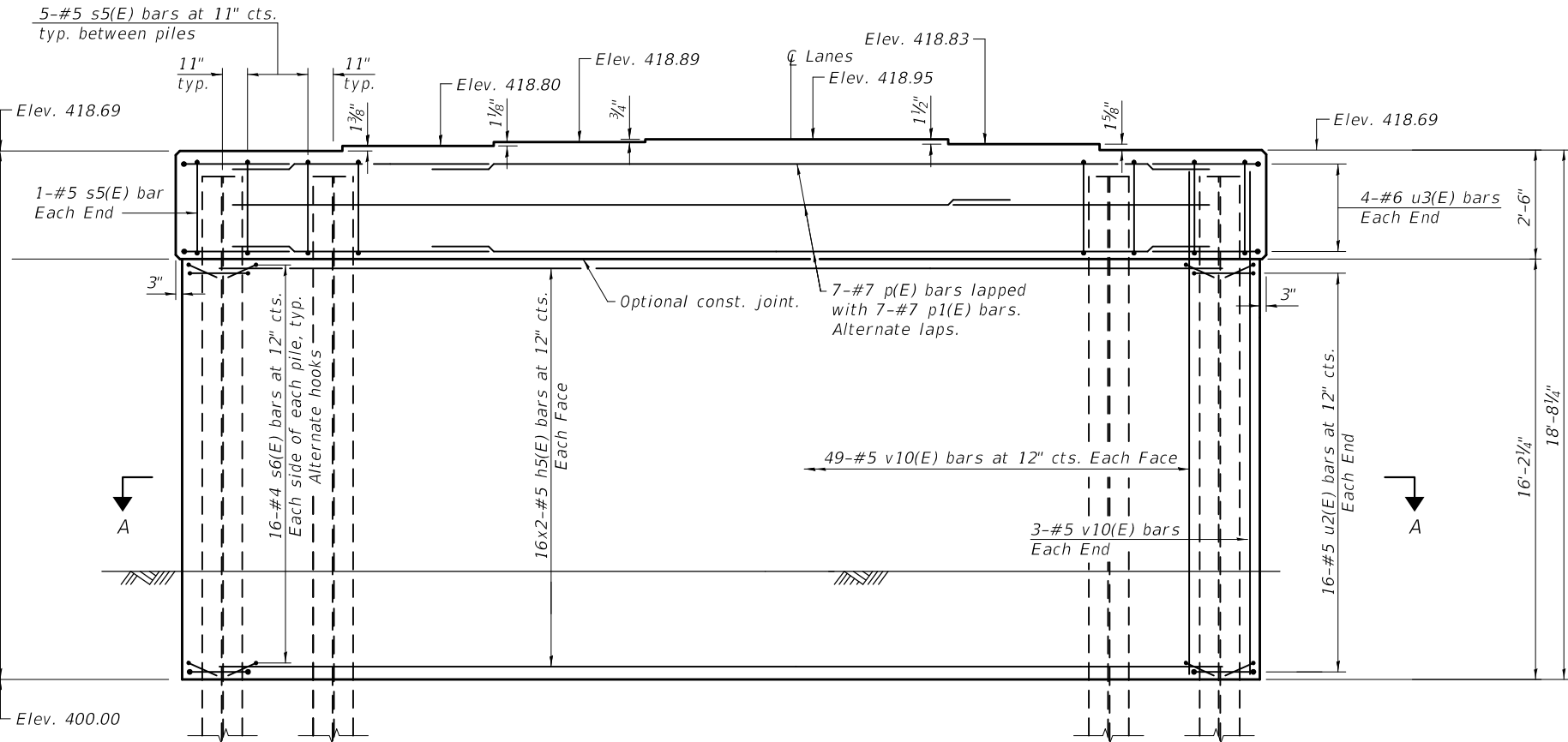
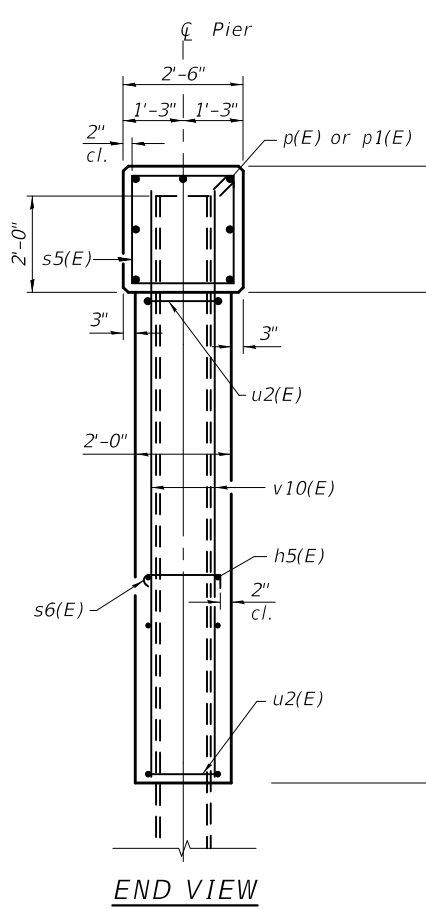
Type: HP14x89
 Nominal Required Bearing: 705kips
 Factored Resistance Available: 388kips
 Est. Length: 100'
 No. Production Piles: 9
 No. Test Piles: 1



MINIMUM BAR LAP
 #5 bars = 3'-7"
 #7 bars = 3'-10"

BILL OF MATERIAL

Bar	No.	Size	Length	Shape
h5(E)	64	#5	27'-7"	—
p(E)	7	#7	36'-0"	—
p1(E)	7	#7	19'-10"	—
s5(E)	47	#5	9'-7"	□
s6(E)	320	#4	2'-9"	┌
u2(E)	32	#5	8'-6"	U
u3(E)	8	#6	9'-5"	U
v10(E)	104	#5	18'-4"	—
Structure Excavation		Cu. Yd.	55	
Concrete Structures		Cu. Yd.	76.7	
Reinforcement Bars, Epoxy Coated		Pound	6090	
Furnishing Steel Piles, HP14x89		Foot	900	
Driving Piles		Foot	900	
Piles Shoes		Each	10	
Test Pile, Steel HP 14x89		Each	1	



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 PLOT DATE = 3/19/2018 12:58:37 PM



USER NAME = SKM
 ESCA PROJECT NO. 1259.08
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 PLOT DATE = 3/19/2018 12:58:37 PM

DESIGNED - KJA 11/17
 CHECKED - RDP 11/17
 DRAWN - KAH 11/17
 CHECKED - KJA/ELH 01/18

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

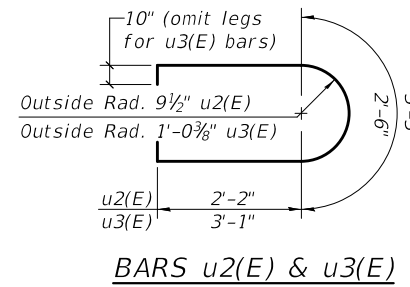
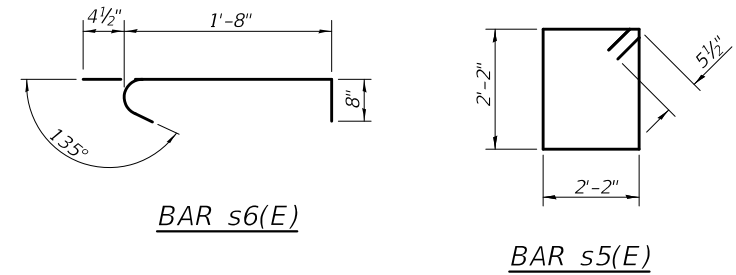
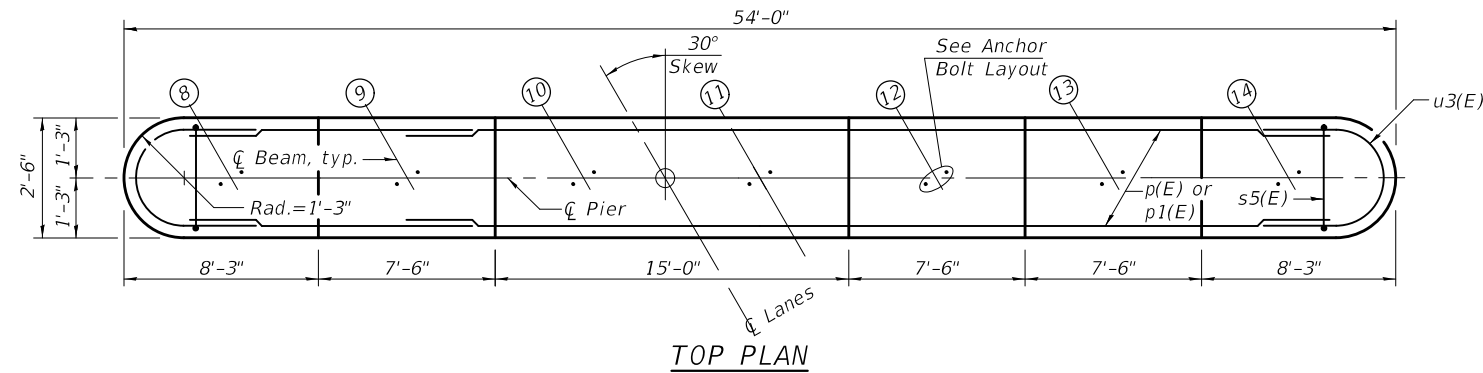
PIER 2 (NB)
 STRUCTURE NO. 091-0075 (NB)
 SHEET NO. 28 OF 37 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	(91-4)B-1	UNION	160	97
CONTRACT NO. 78522				
ILLINOIS FED. AID PROJECT				

Notes:
 Space reinforcement in cap to miss anchor bolts.
 Pour steps monolithically with cap.
 For details of piles, see sheet 31 of 37.
 Bars indicated thus 10x2-#7 etc. indicates 10 lines of bars with 2 lengths per line.

PILE DATA

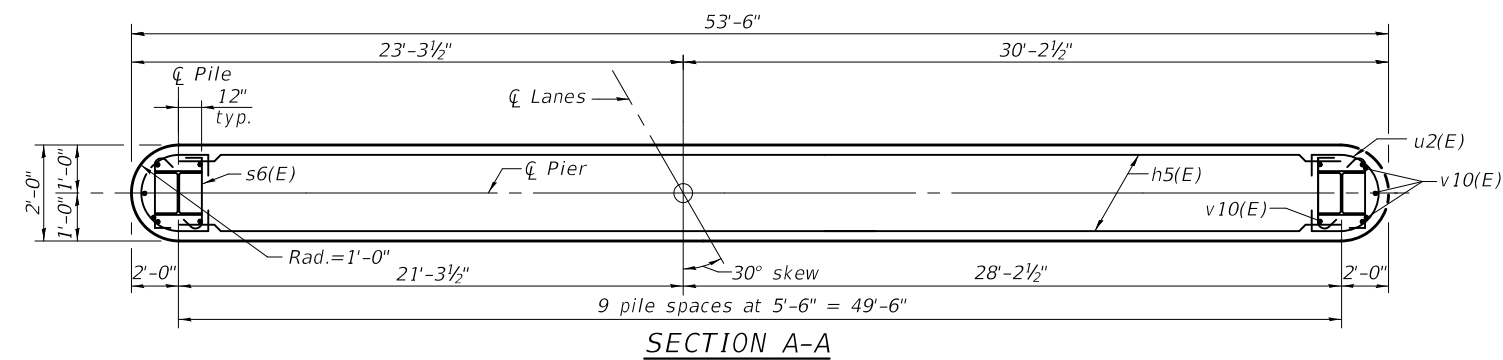
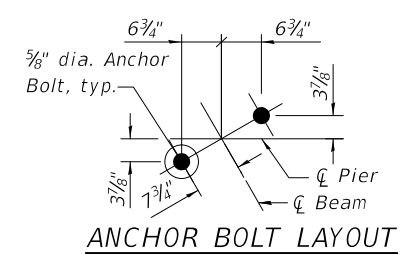
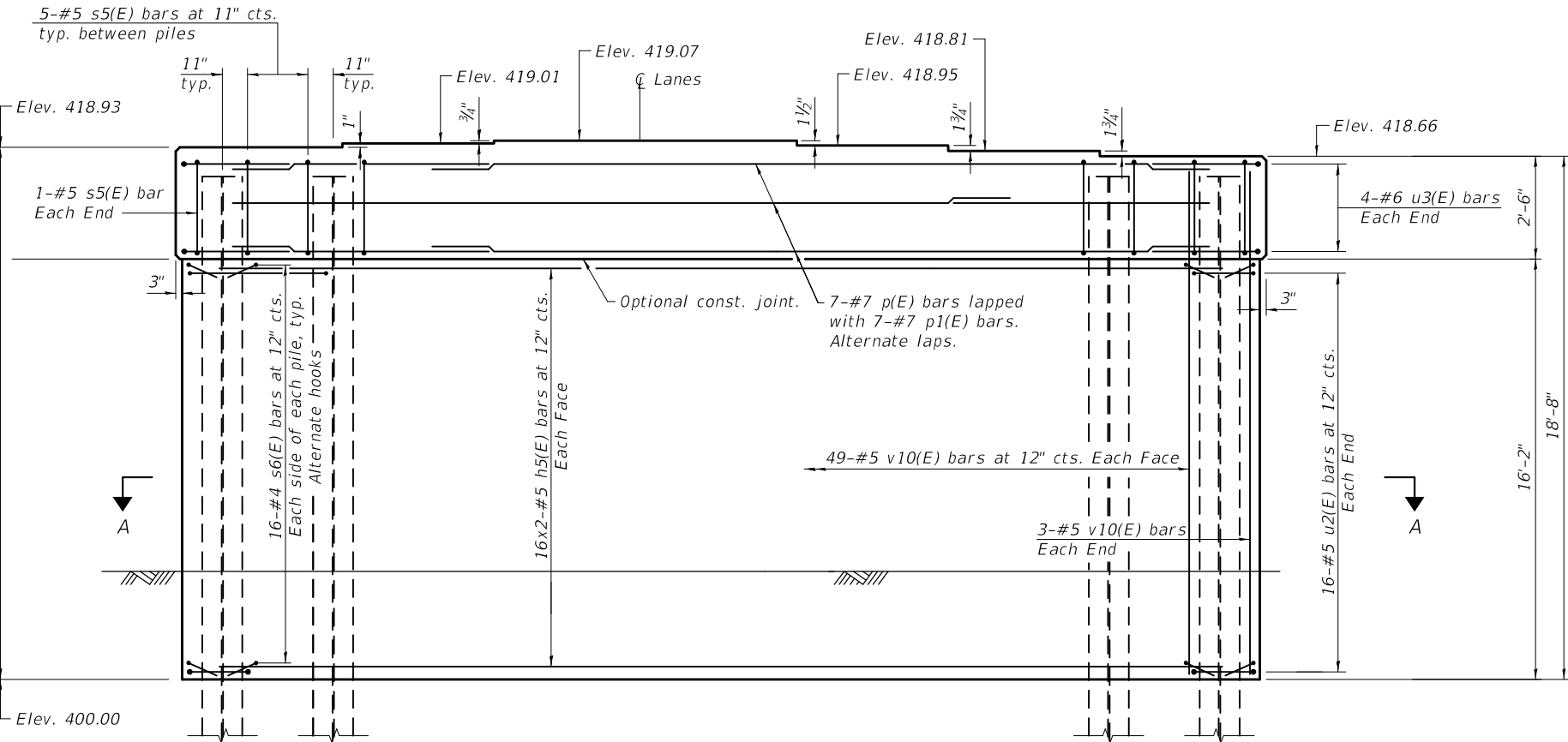
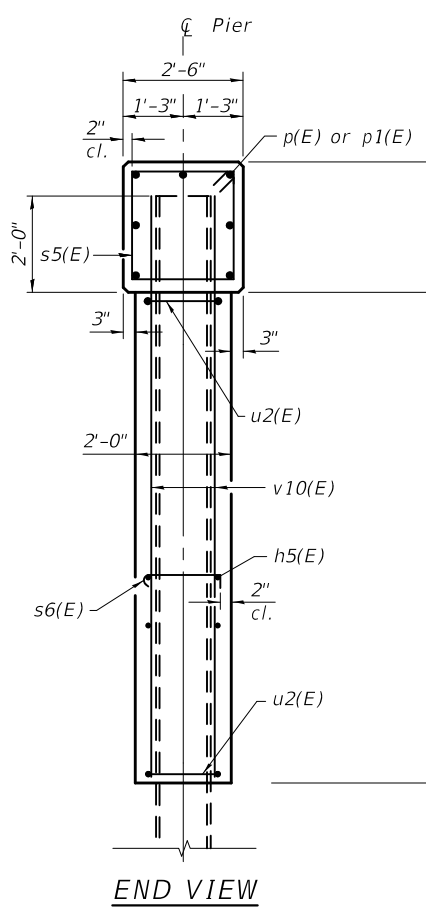
Type: HP14x89
 Nominal Required Bearing: 705kips
 Factored Resistance Available: 388kips
 Est. Length: 100'
 No. Production Piles: 9
 No. Test Piles: 1



MINIMUM BAR LAPS
 #5 bars = 3'-7"
 #7 bars = 3'-10"

BILL OF MATERIAL

Bar	No.	Size	Length	Shape
h5(E)	64	#5	27'-7"	—
p(E)	7	#7	36'-0"	—
p1(E)	7	#7	19'-10"	—
s5(E)	47	#5	9'-7"	□
s6(E)	320	#4	2'-9"	┌
u2(E)	32	#5	8'-6"	U
u3(E)	8	#6	9'-5"	U
v10(E)	104	#5	18'-4"	—
Structure Excavation		Cu. Yd.	50	
Concrete Structures		Cu. Yd.	77.3	
Reinforcement Bars, Epoxy Coated		Pound	6090	
Furnishing Steel Piles, HP14x89		Foot	900	
Driving Piles		Foot	900	
Piles Shoes		Each	10	
Test Pile, Steel HP 14x89		Each	1	



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USER NAME = SKM	DESIGNED - KJA	11/17	REVISED -
ESCA PROJECT NO. 1259.08	CHECKED - RDP	11/17	REVISED -
PLOT SCALE = 0:2 '1" / in.	DRAWN - KAH	11/17	REVISED -
PLOT DATE = 3/19/2018 12:58:38 PM	CHECKED - KJA/ELH	01/18	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**PIER 1 (SB)
 STRUCTURE NO. 091-0076 (SB)**

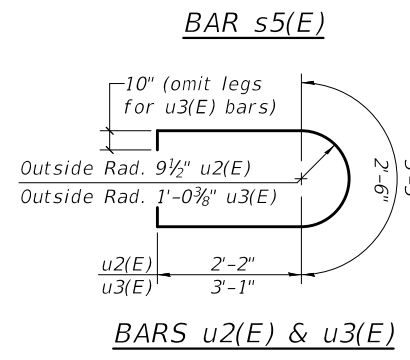
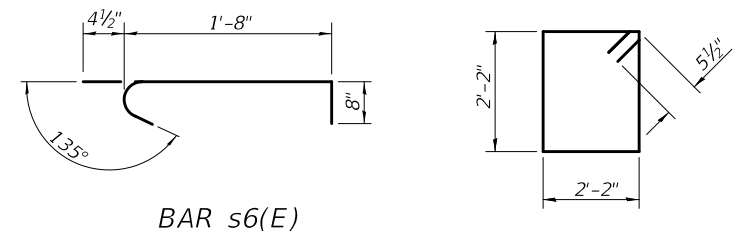
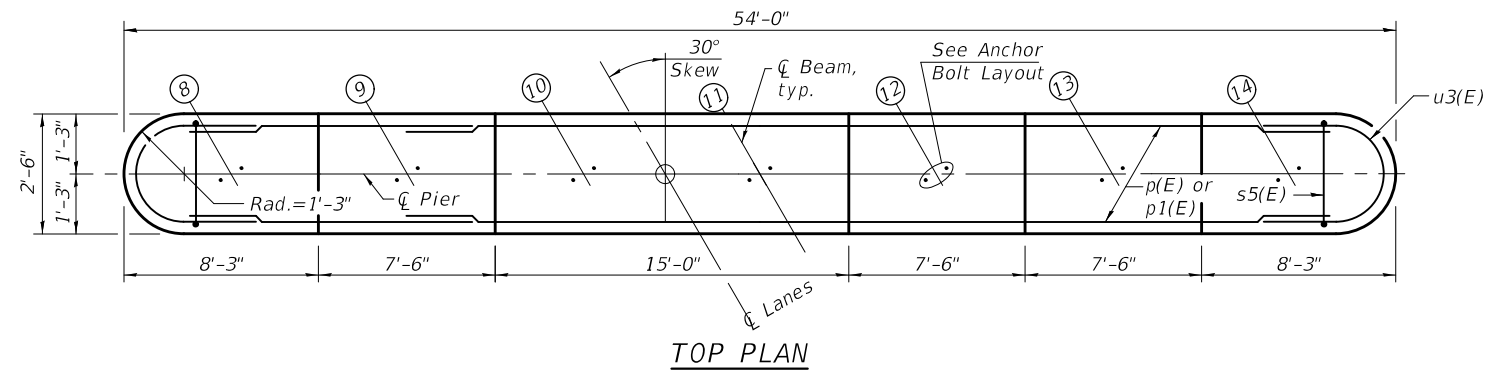
SHEET NO. 29 OF 37 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	(91-4)B-1	UNION	160	98
CONTRACT NO. 78522				
ILLINOIS FED. AID PROJECT				

Notes:
 Space reinforcement in cap to miss anchor bolts.
 Pour steps monolithically with cap.
 For details of piles, see sheet 31 of 37.
 Bars indicated thus 10x2-#7 etc. indicates 10 lines of bars with 2 lengths per line.

PILE DATA

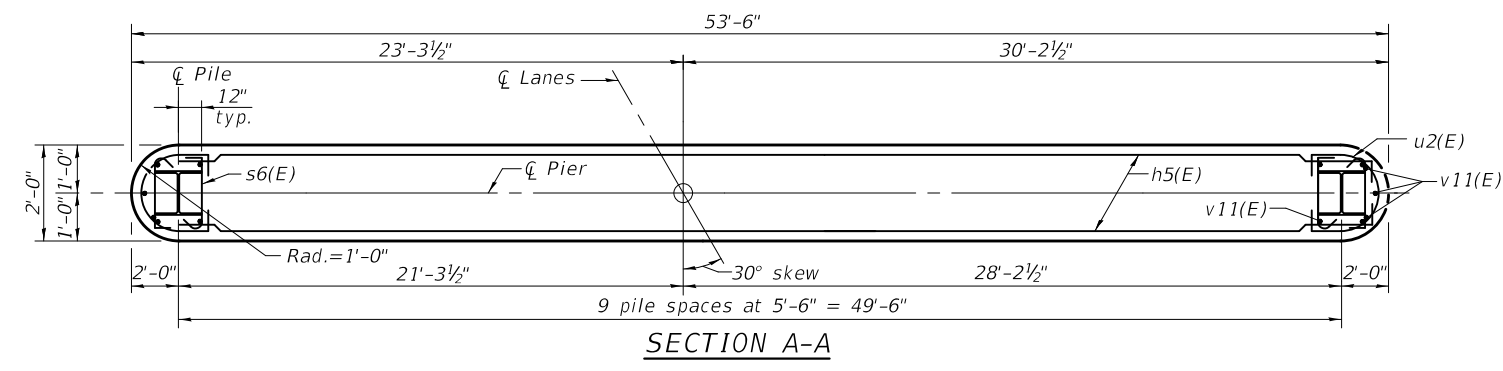
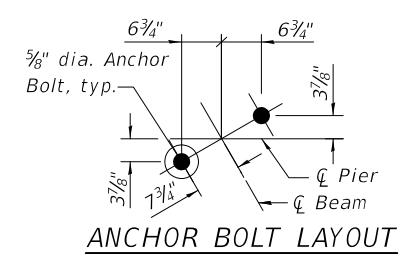
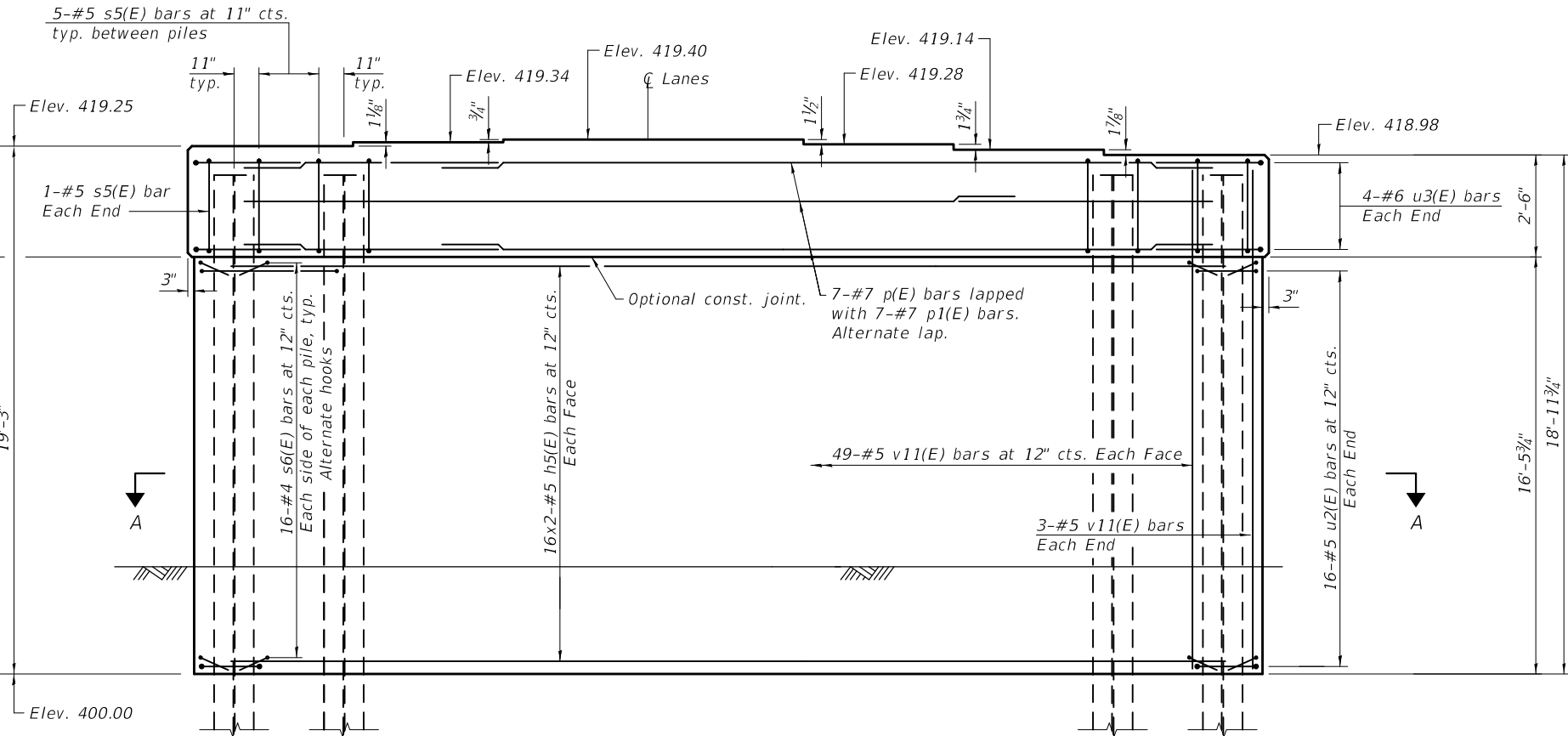
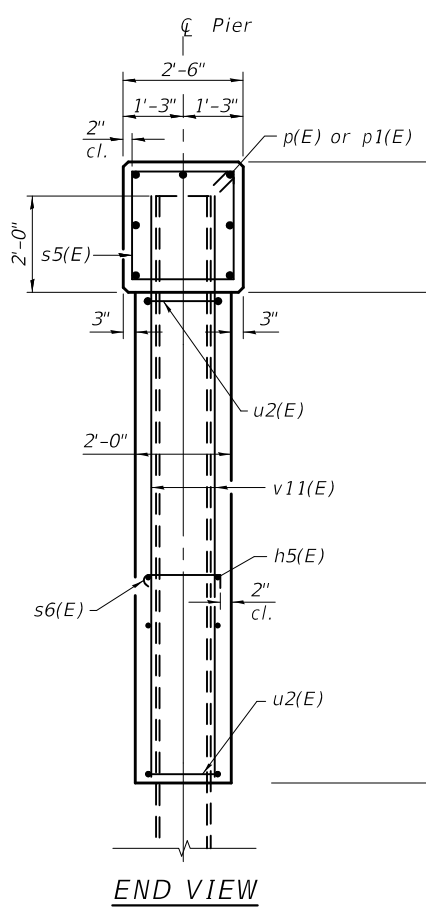
Type: HP14x89
 Nominal Required Bearing: 705kips
 Factored Resistance Available: 388kips
 Est. Length: 100'
 No. Production Piles: 9
 No. Test Piles: 1



MINIMUM BAR LAP
 #5 bars = 3'-7"
 #7 bars = 3'-10"

BILL OF MATERIAL

Bar	No.	Size	Length	Shape
h5(E)	64	#5	27'-7"	—
p(E)	7	#7	36'-0"	—
p1(E)	7	#7	19'-10"	—
s5(E)	47	#5	9'-7"	□
s6(E)	320	#4	2'-9"	┌
u2(E)	32	#5	8'-6"	U
u3(E)	8	#6	9'-5"	U
v11(E)	104	#5	18'-8"	—
Structure Excavation		Cu. Yd.	55	
Concrete Structures		Cu. Yd.	78.5	
Reinforcement Bars, Epoxy Coated		Pound	6120	
Furnishing Steel Piles, HP14x89		Foot	900	
Driving Piles		Foot	900	
Piles Shoes		Each	10	
Test Pile, Steel HP 14x89		Each	1	



PRINT DRIVER = L:\05-EB\14x89
 SCALE NAME = PLOT
 PLOT DATE = 3/19/2018 12:58:39 PM



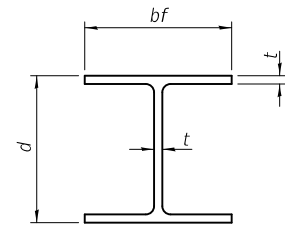
USER NAME = SKM	DESIGNED - KJA 11/17	REVISED -
ESCA PROJECT NO. 1259.08	CHECKED - RDP 11/17	REVISED -
PLOT SCALE = 0:2 '1' / in.	DRAWN - KAH 11/17	REVISED -
PLOT DATE = 3/19/2018 12:58:39 PM	CHECKED - KJA/ELH 01/18	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**PIER 2 (SB)
 STRUCTURE NO. 091-0076 (SB)**

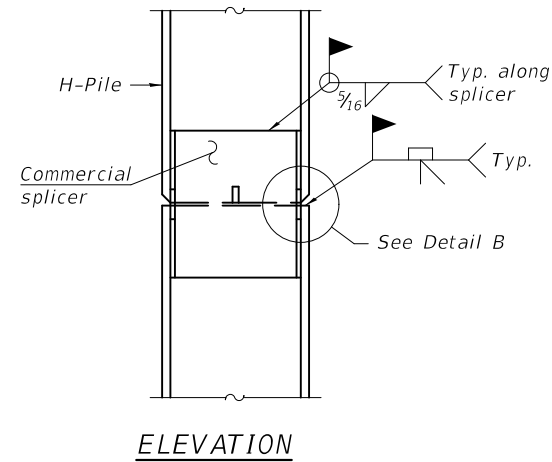
SHEET NO. 30 OF 37 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	(91-4)B-1	UNION	160	99
CONTRACT NO. 78522				
ILLINOIS FED. AID PROJECT				

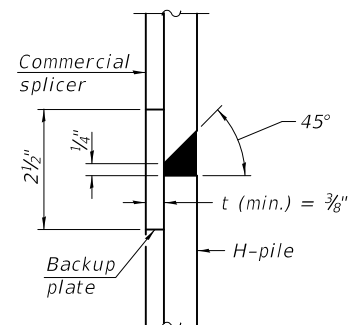


STEEL PILE TABLE

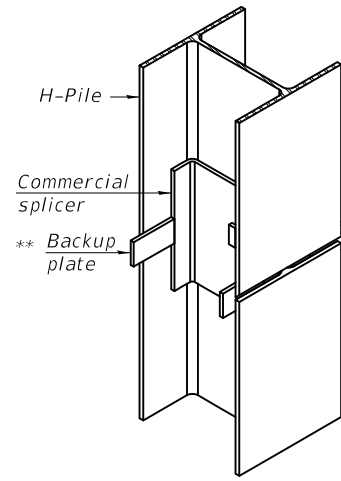
Designation	Depth d	Flange width bf	Web and Flange thickness t	Encasement diameter A
HP 14x117	14 1/4"	14 7/8"	1 3/16"	30"
x102	14"	14 3/4"	1 1/16"	30"
x89	13 7/8"	14 3/4"	5/8"	30"
x73	13 3/8"	14 3/8"	1/2"	30"
HP 12x84	12 1/4"	12 1/4"	1 1/16"	24"
x74	12 1/8"	12 1/4"	5/8"	24"
x63	12"	12 1/8"	1/2"	24"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



ELEVATION

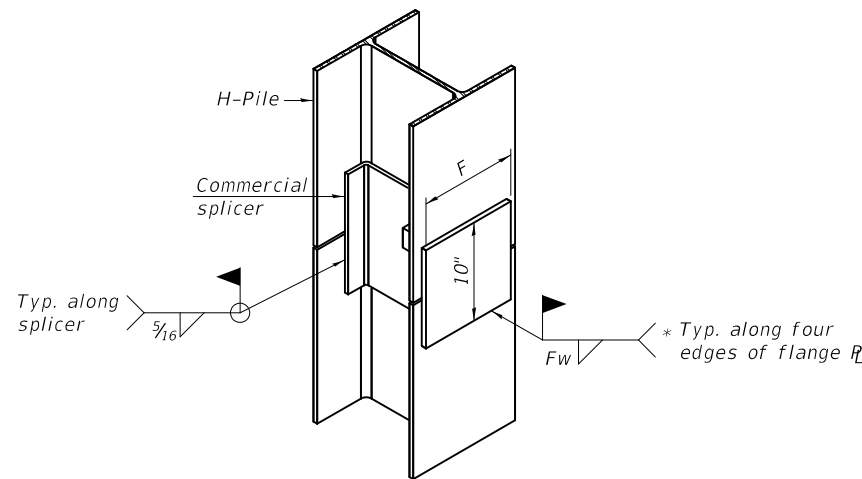


DETAIL "B"



ISOMETRIC VIEW

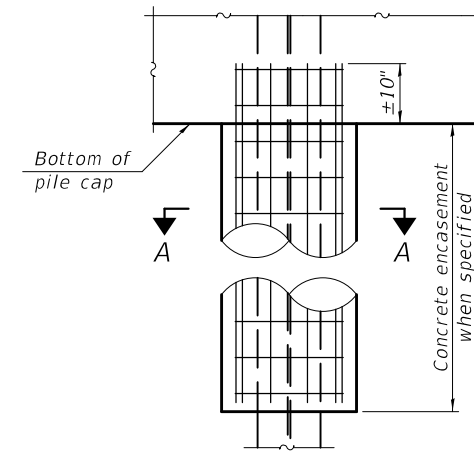
WELDED COMMERCIAL SPLICE



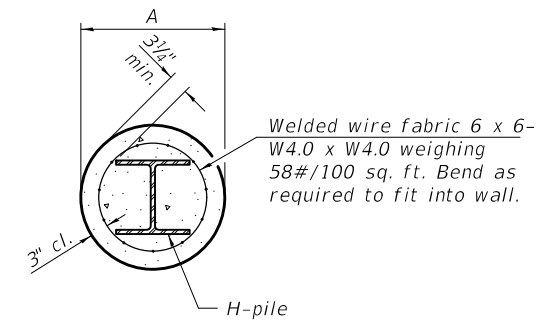
ISOMETRIC VIEW

WELDED COMMERCIAL SPLICE ALTERNATE

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

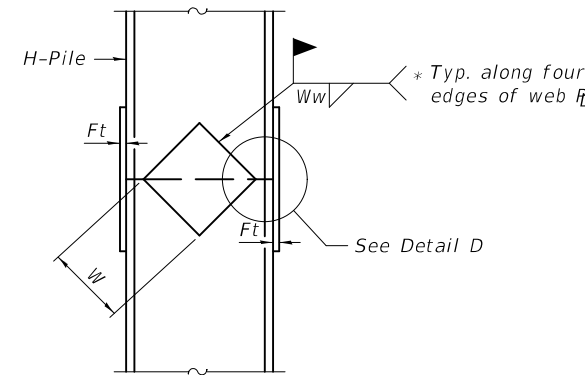


ELEVATION

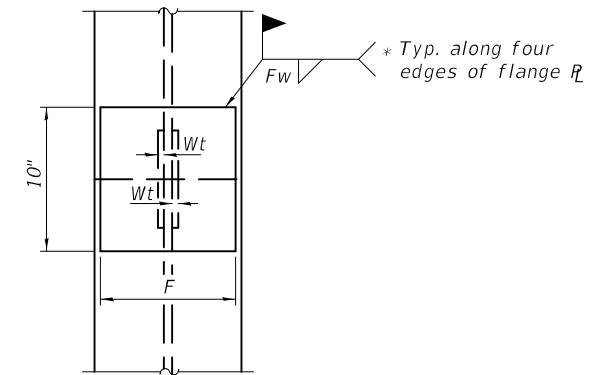


SECTION A-A

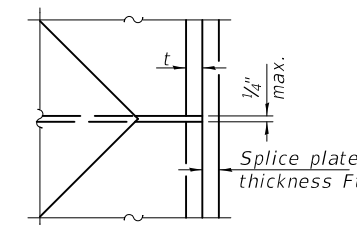
INDIVIDUAL PILE CONCRETE ENCASUREMENT
(Forms for encasement may be omitted when soil conditions permit).



ELEVATION



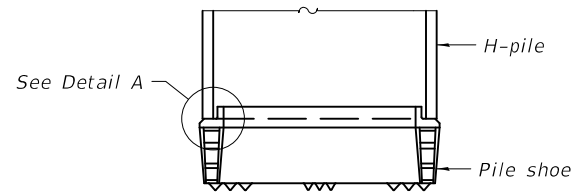
END VIEW



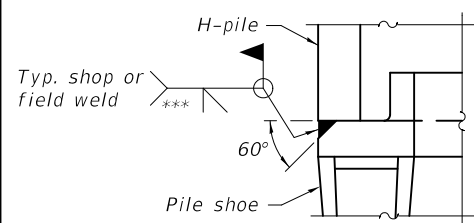
DETAIL D

WELDED PLATE FIELD SPLICE

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



ELEVATION



DETAIL A

SHOE ATTACHMENT

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

F-HP 8-11-2017

PRINT DRIVER = L:\E-Books\14179
 PLOT SCALE = 1/8" = 1'-0"
 PLOT DATE = 3/19/2018 12:58:48 PM



USER NAME = SKM	DESIGNED - KJA 11/17	REVISED -
ESCA PROJECT NO. 1259.08	CHECKED - RDP 11/17	REVISED -
PLOT SCALE = 0:2 't' / in.	DRAWN - KJA 11/17	REVISED -
PLOT DATE = 3/19/2018	CHECKED - KJA 02/18	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**HP PILE DETAILS
STRUCTURE NO. 091-0075 (NB) & 091-0076 (SB)**

SHEET NO. 31 OF 37 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	(91-4)B-1	UNION	160	100
CONTRACT NO. 78522				
ILLINOIS FED. AID PROJECT				