

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

F.A.I. RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
64	(97-2B-2) BDR-1	WHITE	33	1
		ILLINOIS	CONTRACT NO. 78A07	

INDEX OF SHEETS

SHEET NO.	DESCRIPTION
1	COVER SHEET
2	DISTRICT SIGNATURE BLOCK
3	GENERAL NOTES AND HIGHWAY STANDARDS
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8	TYPICAL SECTIONS
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PROPOSED  
HIGHWAY PLANS

FAI ROUTE 64 (I-64)  
SECTION (97-2B-2) BDR-1  
PROJECT NHPP-E26T(151)  
BRIDGE DECK OVERLAY  
WHITE COUNTY

C-99-056-23

D-99-040-23



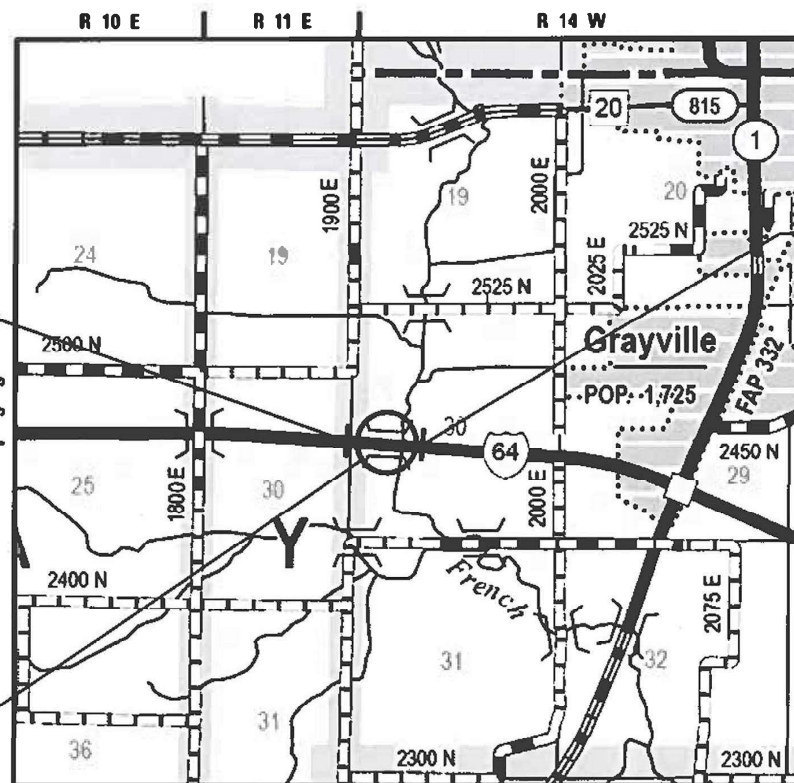
BRIDGE DATA

INVENTORY RATING 0.87 (31)  
OPERATING RATING 1.450 (52)  
NO LOADING POSTING

I-64 TRAFFIC DATA

2022 ADT: 15,800  
39% TRUCKS  
POSTED SPEED: 70 MPH

TOWNSHIP: GRAY  
COORDINATE SYSTEM: IL EAST STATE PLANE NAD 83



BEGIN IMPROVEMENT  
STA 5763 + 38.50

END IMPROVEMENT  
STA 5764 + 91.50

LOCATION MAP



*Sean D. Maxwell* 12/04/2023  
SEAN D. MAXWELL ILLINOIS P.E. 062.071986 DATE  
EXPIRES 11/30/2025

**QEI**  
QUIGG ENGINEERING INC  
2351 SOUTH DIRKSEN PARKWAY  
SPRINGFIELD, ILLINOIS 62703  
PROJECT MANAGER: MICHAEL CIMA  
www.quiggengineering.com

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

PROJECT ENGINEER EHREN KIRBY (618)351-5227

CONTRACT NO. 78A07

PROJECT LENGTH  
GROSS LENGTH = 153.00 FT. = 0.029 MILE  
NET LENGTH = 153.00 FT. = 0.029 MILE

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

SUBMITTED Dec 11 2023  
Kirk H. Brown  
REGION FIVE ENGINEER

February 2, 2024  
Sean A. Etkin  
ENGINEER OF DESIGN AND ENVIRONMENT

February 2, 2024  
Stephen M. Smith  
DIRECTOR OF HIGHWAYS PROJECT IMPLEMENTATION

PRINTED BY THE AUTHORITY  
OF THE STATE OF ILLINOIS

MODEL: S:\2023\11\10\33 - PTB 199-38 09 - OEI - Various IJHW-1E 1:64 BR Roberts 097-0051652CAD\CADD Sheets\18A07-181-geoparc.dgn

PREPARED BY: Charles Stein  
 DISTRICT STUDIES AND PLANS ENGINEER

EXAMINED BY: Nancy Lee  
 DISTRICT LAND ACQUISITION ENGINEER

EXAMINED BY: Con Nelson  
 DISTRICT PROGRAM DEVELOPMENT ENGINEER

EXAMINED BY: [Signature]  
 DISTRICT OPERATIONS ENGINEER

EXAMINED BY: Daryl J. Thelie  
 DISTRICT PROJECT IMPLEMENTATION ENGINEER

EXAMINED BY: Daryl J. Thelie  
 DISTRICT CONSTRUCTION ENGINEER

EXAMINED BY: Aam Hays  
 DISTRICT MATERIALS ENGINEER



USER NAME = smacwell	DESIGNED - SDM	REVISED -
	DRAWN - TO	REVISED -
PLOT SCALE = 100.0000 / 1 in.	CHECKED - MCV	REVISED -
PLOT DATE = 12/4/2023	DATE - 11/10/2023	REVISED -

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**DISTRICT SIGNATURE BLOCK**

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

FA I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
64	(97-2B-2) BDR-1	WHITE	33	2
CONTRACT NO. 78A07				
ILLINOIS FED. AID PROJECT				



CONSTRUCTION TYPE CODE

STP 90% FED, 10% STATE

BRIDGE

0047

S.N. 097-0051  
& S.N. 097-0052

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	
40600290	BITUMINOUS MATERIALS (TACK COAT)	POUND	161	161
40600370	LONGITUDINAL JOINT SEALANT	FOOT	80	80
40604174	POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, IL-9.5, MIX "E", N90	TON	24	24
44000157	HOT-MIX ASPHALT SURFACE REMOVAL, 2"	SQ YD	356	356
48102100	AGGREGATE WEDGE SHOULDER, TYPE B	TON	81	81
48203005	HOT-MIX ASPHALT SHOULDERS, 2"	SQ YD	143	143
50102400	CONCRETE REMOVAL	CU YD	3.4	3.4
50300255	CONCRETE SUPERSTRUCTURE	CU YD	3.8	3.8
50300300	PROTECTIVE COAT	SQ YD	930	930
50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	420	420
* 63000001	STEEL PLATE BEAM GUARDRAIL, TYPE A, 6 FOOT POSTS	FOOT	362.5	362.5
* 63100085	TRAFFIC BARRIER TERMINAL, TYPE 6	EACH	4	4
* 63100167	TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT	EACH	1	1

\* SPECIALTY ITEM

REV. - MS

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PLOT DATE = 12/4/2023	CHECKED - MCV	REVISED -
	DATE - 11/10/2023	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES

SCALE: NONE SHEET 1 OF 4 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
64	(97-2B-2) BDR-1	WHITE	33	4
			CONTRACT NO. 78A07	
ILLINOIS FED. AID PROJECT				

CONSTRUCTION TYPE CODE
STP 90% FED, 10% STATE
BRIDGE
0047
S.N. 097-0051 & S.N. 097-0052

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	
63200310	GUARDRAIL REMOVAL	FOOT	337	337
67000400	ENGINEER'S FIELD OFFICE, TYPE A	CAL MO	3	3
67100100	MOBILIZATION	L SUM	1	1
70100205	TRAFFIC CONTROL AND PROTECTION, STANDARD 701401	EACH	1	1
70100207	TRAFFIC CONTROL AND PROTECTION, STANDARD 701402	EACH	1	1
70100700	TRAFFIC CONTROL AND PROTECTION, STANDARD 701406	L SUM	1	1
70103815	TRAFFIC CONTROL SURVEILLANCE	CAL DA	10	10
70107025	CHANGEABLE MESSAGE SIGN	CAL DA	42	42
70306120	TEMPORARY PAVEMENT MARKING - LINE 4" - TYPE III TAPE	FOOT	12,106	12,106
70400100	TEMPORARY CONCRETE BARRIER	FOOT	1,200.0	1,200.0
70400200	RELOCATE TEMPORARY CONCRETE BARRIER	FOOT	1,050.0	1,050.0
70600270	IMPACT ATTENUATORS, TEMPORARY (FULLY REDIRECTIVE, WIDE), TEST LEVEL 3	EACH	2	2
70600327	IMPACT ATTENUATORS, RELOCATE (FULLY REDIRECTIVE, WIDE), TEST LEVEL 3	EACH	2	2

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REV. - MS



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PLOT DATE = 12/4/2023	CHECKED - MCV	REVISED -
	DATE - 11/10/2023	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**SUMMARY OF QUANTITIES**

SCALE: NONE SHEET 2 OF 4 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
64	(97-2B-2) BDR-1	WHITE	33	5
			CONTRACT NO. 78A07	
			ILLINOIS FED. AID PROJECT	

CONSTRUCTION TYPE CODE

STP 90% FED, 10% STATE

BRIDGE

0047

S.N. 097-0051  
& S.N. 097-0052

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	
* 72501000	TERMINAL MARKER - DIRECT APPLIED	EACH	1	1
* 78003111	PREFORMED PLASTIC PAVEMENT MARKING, TYPE B - STANDARD - LINE 4"	FOOT	3,229	3,229
* 78003131	PREFORMED PLASTIC PAVEMENT MARKING, TYPE B - STANDARD - LINE 6"	FOOT	1,139	1,139
* 78100300	REPLACEMENT REFLECTOR	EACH	54	54
* 78200005	GUARDRAIL REFLECTORS, TYPE A	EACH	4	4
* 78200011	BARRIER WALL REFLECTORS, TYPE C	EACH	31	31
78300200	RAISED REFLECTIVE PAVEMENT MARKER REMOVAL	EACH	4	4
78300202	PAVEMENT MARKING REMOVAL - WATER BLASTING	SQ FT	4,882	4,882
Z0004556	HOT-MIX ASPHALT SURFACE REMOVAL (DECK)	SQ YD	914	914
Z0012132	BRIDGE DECK SCARIFICATION 1"	SQ YD	914	914
Z0012170	BRIDGE DECK MICROSILICA CONCRETE OVERLAY 3 1/4"	SQ YD	914	914
Z0012754	STRUCTURAL REPAIR OF CONCRETE (DEPTH EQUAL TO OR LESS THAN 5 INCHES)	SQ FT	27	27
Z0012755	STRUCTURAL REPAIR OF CONCRETE (DEPTH GREATER THAN 5 INCHES)	SQ FT	7	7

\* SPECIALTY ITEM

REV. - MS

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PLOT DATE = 12/4/2023	DATE - 11/10/2023	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES

SCALE: NONE SHEET 3 OF 4 SHEETS STA. TO STA.

F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
64	(97-2B-2) BDR-1	WHITE	33	6
CONTRACT NO. 78A07				
ILLINOIS FED. AID PROJECT				

CONSTRUCTION TYPE CODE

STP 90% FED, 10% STATE

BRIDGE

0047

S.N. 097-0051  
& S.N. 097-0052

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	
Z0016002	DECK SLAB REPAIR (FULL DEPTH, TYPE II)	SQ YD	1	1
Z0029090	DIAMOND GRINDING (BRIDGE SECTION)	SQ YD	820	820
Z0041895	POLYMER CONCRETE	CU FT	3.6	3.6
X5030250	BRIDGE DECK GROOVING (LONGITUDINAL)	SQ YD	820	820
* X6330900	VERTICAL ADJUSTMENT OF GUARDRAIL	FOOT	37.5	37.5
X7830050	RAISED REFLECTIVE PAVEMENT MARKER, REFLECTOR REMOVAL	EACH	54	54

\* SPECIALTY ITEM

REV. - MS

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STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

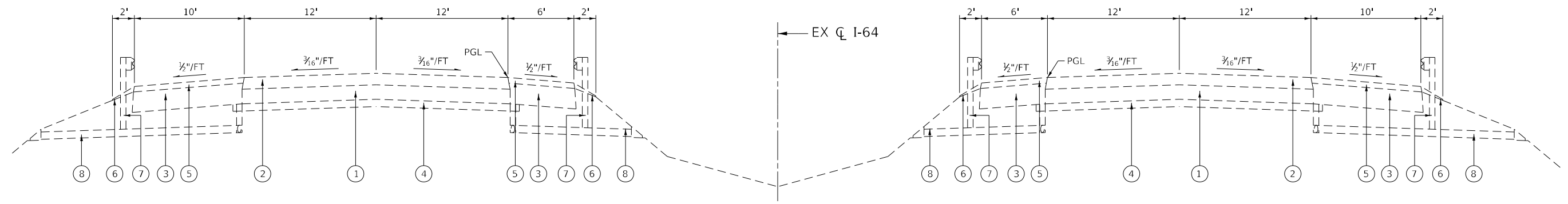
SUMMARY OF QUANTITIES

SCALE: NONE SHEET 4 OF 4 SHEETS STA. TO STA.

F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
64	(97-2B-2) BDR-1	WHITE	33	7
				CONTRACT NO. 78A07
				ILLINOIS FED. AID PROJECT

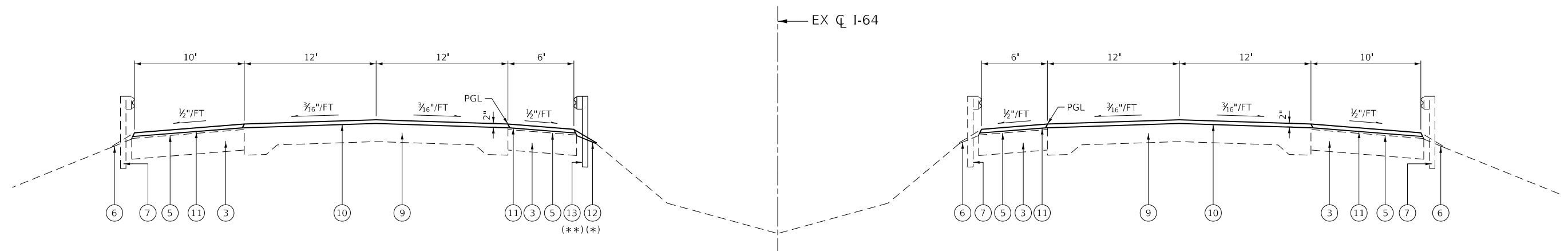
**LEGEND**

- ① EX CRC PAVEMENT 8"
- ② EX BIT SURFACE AND BINDER (4 3/4")
- ③ EX HMA SHOULDER BASE
- ④ EX STABILIZED SUB BASE (4")
- ⑤ EX HMA SHOULDER SURFACE
- ⑥ EX AGG WEDGE SHOULDER
- ⑦ EX GUARDRAIL
- ⑧ EX PIPE UNDERDRAINS
- ⑨ EX APPROACH SLAB
- ⑩ HOT-MIX ASPHALT SURFACE REMOVAL, 2"
- ⑪ POLYMERIZED HMA SURFACE COURSE, IL-9.5, MIX E, N90
- ⑫ HOT-MIX ASPHALT SURFACE REMOVAL, 2"
- ⑬ HOT-MIX ASPHALT SHOULDERS, 2"
- ⑭ AGGREGATE WEDGE SHOULDER, TYPE B
- ⑮ STEEL PLATE BEAM GUARDRAIL, TYPE A, 6 FOOT POSTS



**EXISTING TYPICAL SECTION**

STA 5744+33.36 TO STA 5763+38.50  
 BRIDGE OMISSION: STA 5763+58.50 TO STA 5764+71.50  
 STA 5764+91.50 TO STA 5784+96.50



**APPROACH SLAB TYPICAL SECTION**

STA 5763+38.50 TO STA 5763+58.50  
 BRIDGE OMISSION: STA 5763+58.50 TO STA 5764+71.50  
 STA 5764+71.50 TO STA 5764+91.50

- (\*) AGGREGATE WEDGE SHOULDER, TYPE B  
 WB INSIDE START STA 5764+80.50  
 WB INSIDE END STA 5768+21.50
- (\*\*) STEEL PLATE BEAM GUARDRAIL  
 WB INSIDE START STA 5764+80.50  
 WB INSIDE END STA 5765+67.40

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	DATE - 11/10/2023	REVISED -

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**TYPICAL SECTIONS  
 I - 64**

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

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
64	(97-2B-2) BDR-1	WHITE	33	8
CONTRACT NO. 78A07				
ILLINOIS FED. AID PROJECT				



PAVEMENT SCHEDULE								
LOCATION			BITUMINOUS MATERIALS (TACK COAT)	LONGITUDINAL JOINT SEALANT	POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, IL 9.5, MIX "E", N90	HOT-MIX ASPHALT SURFACE REMOVAL, 2"	AGGREGATE WEDGE SHOULDER, TYPE B	HOT-MIX ASPHALT SHOULDERS, 2"
STA	STA	DIRECTION	40600290	40600370	40604174	44000157	48102100	48203005
			POUND	FOOT	TON	SQ YD	SQ FT	SQ FT
5763+38.50	5763+58.50	EB	40.17	20.00	5.99	88.89		35.55
5764+71.50	5764+91.50	EB	40.17	20.00	5.99	88.89		35.55
5763+38.50	5763+58.50	WB	40.17	20.00	5.99	88.89		35.55
5764+71.50	5764+91.50	WB	40.17	20.00	5.99	88.89		35.55
5764+80.50	5768+21.50	WB					80.50	
TOTAL			160.68	80.00	23.96	355.56	80.5	142.20
USE			161	80	24	356	81	143

GUARDRAIL SCHEDULE								
LOCATION			STEEL PLATE BEAM GUARDRAIL, TYPE A, 6 FOOT POSTS	TRAFFIC BARRIER TERMINAL, TYPE 6	TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT	GUARDRAIL REMOVAL	TERMINAL MARKER - DIRECT APPLIED	GUARDRAIL REFLECTORS, TYPE A
STA	STA	DIRECTION	63000001	63100085	63100167	63200310	72501000	78200005
			FEET	EACH	EACH	FOOT	EACH	EACH
5764+78.00	5765+17.40	WB	250.0	1	1	336.9	1	4
5764+78.00	5765+17.40	WB	37.5	1				
5763+12.60	5763+52.00	EB	37.5	1				
5763+12.60	5763+52.00	EB	37.5	1				
TOTAL			362.5	4	1	336.9	1	4
USE			362.5	4	1	337	1	4

TEMPORARY CONCRETE BARRIER SCHEDULE							
LOCATION			TEMPORARY CONCRETE BARRIER	RELOCATE TEMPORARY CONCRETE BARRIER	IMPACT ATTENUATORS, TEMPORARY (FULLY REDIRECTIVE, WIDE), TEST LEVEL 3	IMPACT ATTENUATORS, RELOCATE (FULLY REDIRECTIVE, WIDE), TEST LEVEL 3	BARRIER WALL REFLECTORS, TYPE C
STA	STA	EB / WB	70400100	70400200	70600270	70600327	78200011
			FOOT	FOOT	EACH	EACH	EACH
STAGE 1							
5760+07.85	5760+20.37	EB	12.5	12.5	1		27
5760+20.37	5761+94.84	EB	175.0	175.0			
5761+94.84	5765+32.34	EB	337.5	337.5			
5762+94.00	5766+31.50	WB	337.5	337.5			
5766+31.50	5768+05.93	WB	175.0	175.0			
5768+05.93	5768+18.47	WB	12.5	12.5	1		
STAGE 2							
5761+23.36	5761+98.36	EB	75.0				4
5766+31.50	5767+06.50	WB	75.0				
5759+36.42						1	
5768+93.43						1	
TOTAL			1,200.0	1,050.0	2	2	31
USE			1,200.0	1,050.0	2	2	31

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DESIGNED - SDM  
 DRAWN - TO  
 CHECKED - MCV  
 DATE - 11/10/2023

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STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

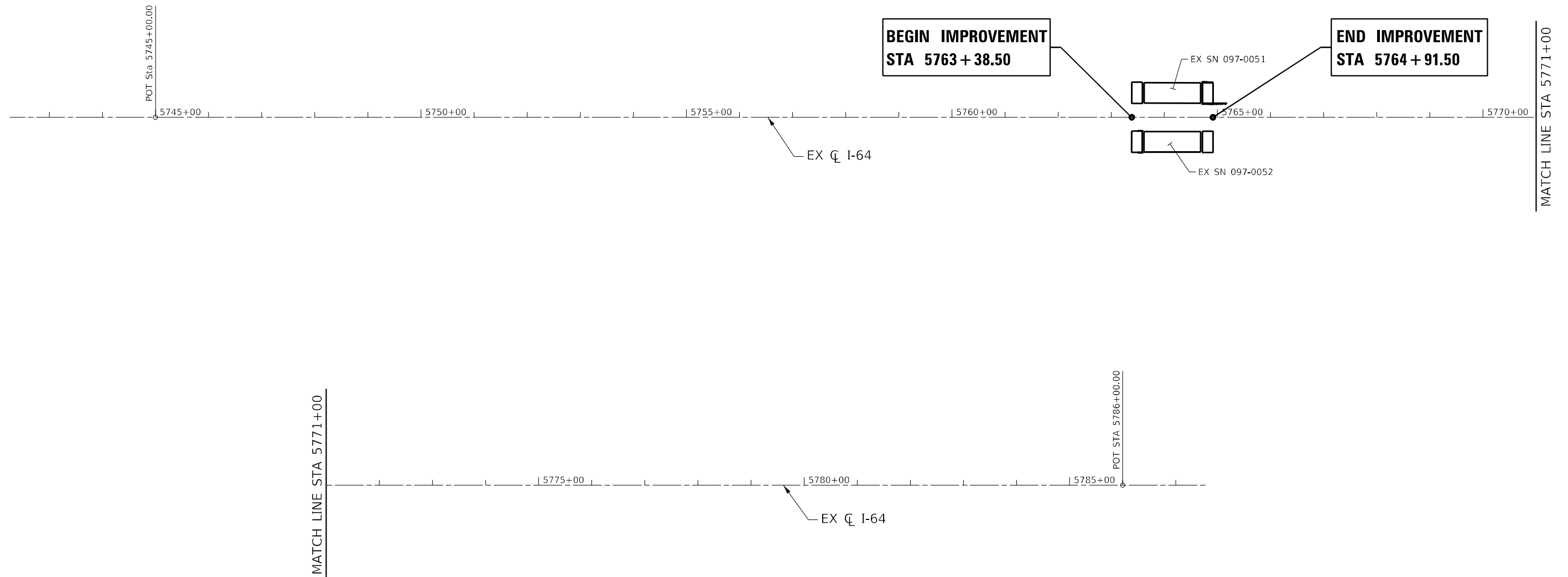
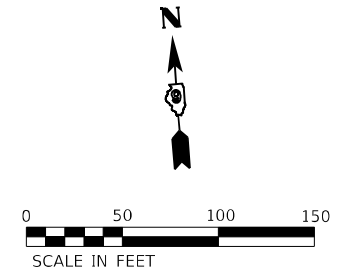
SCHEDULE OF QUANTITIES

SCALE: NONE SHEET 1 OF 2 SHEETS STA. TO STA.

F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
64	(97-2B-2) BDR-1	WHITE	33	9
CONTRACT NO. 78A07				
ILLINOIS FED. AID PROJECT				



CENTERLINE CONTROL TABLE		
DESCRIPTION	NORTHING	EASTING
POT STA 5745+00.00	571949.523	1071165.681
POT STA 5786+00.00	571654.122	1075255.026



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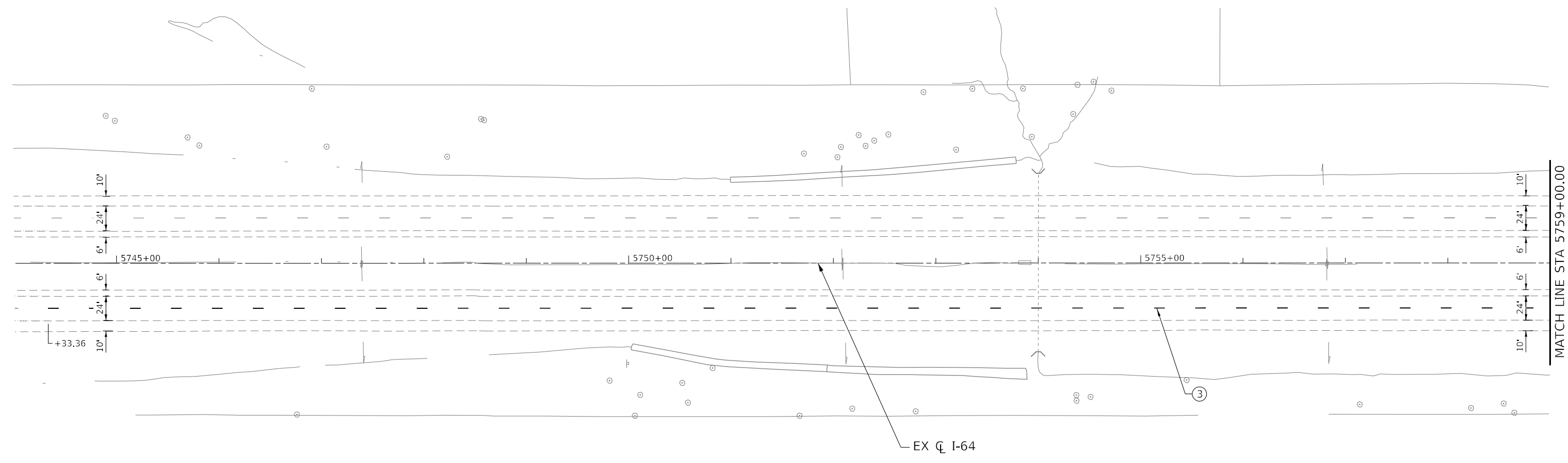
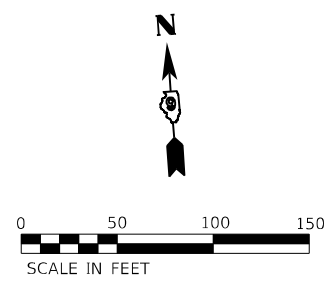


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	DATE - 11/10/2023	REVISED -

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

<b>ALIGNMENT, TIES, AND BENCHMARKS</b>		
<b>I - 64</b>		
SCALE: 1" = 50'	SHEET 1 OF 2 SHEETS	STA. 5745+00.00 TO STA. 5786+00.00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
64	(97-2B-2) BDR-1	WHITE	33	11
CONTRACT NO. 78A07				
ILLINOIS FED. AID PROJECT				



**LEGEND**

- ① PREFORMED PLASTIC PAVEMENT MARKING, TYPE B - LINE 4" (SOLID WHITE)
- ② PREFORMED PLASTIC PAVEMENT MARKING, TYPE B - LINE 4" (SOLID YELLOW)
- ③ PREFORMED PLASTIC PAVEMENT MARKING, TYPE B - LINE 6" (SKIP-DASH WHITE)

MODEL: SUT\_1  
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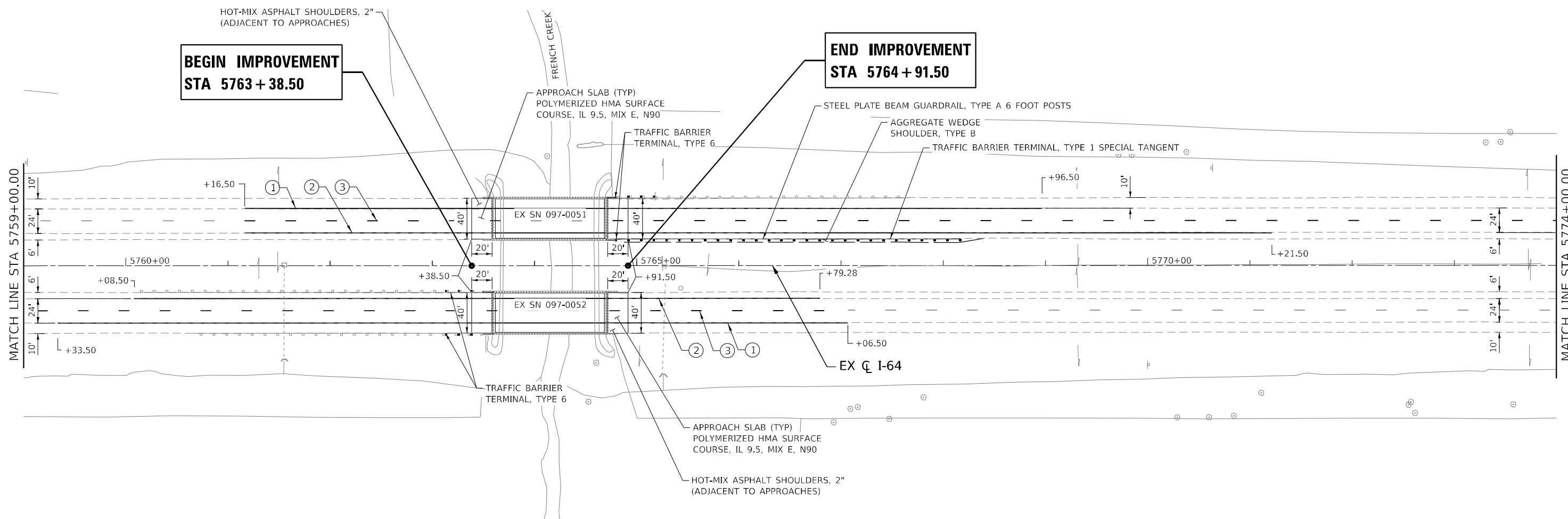
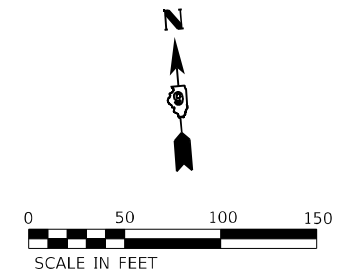
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**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**ROADWAY PLAN  
 I - 64**

SCALE: 1" = 50'      SHEET 1 OF 3 SHEETS      STA. 5744+00.00 TO STA. 5759+00.00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
64	(97-2B-2) BDR-1	WHITE	33	12
CONTRACT NO. 78A07				
ILLINOIS FED. AID PROJECT				



**LEGEND**

- ① PREFORMED PLASTIC PAVEMENT MARKING, TYPE B - LINE 4" (SOLID WHITE)
- ② PREFORMED PLASTIC PAVEMENT MARKING, TYPE B - LINE 4" (SOLID YELLOW)
- ③ PREFORMED PLASTIC PAVEMENT MARKING, TYPE B - LINE 6" (SKIP-DASH WHITE)

MODEL: SUT 2  
 FILE NAME: S:\2023\12\11\033 - PTB 199-38 D9 - QEI - Various - HWOC-16 164 BR Repair 097-0051652\CADD\CADD Sheets\078A07-2-1.dwg



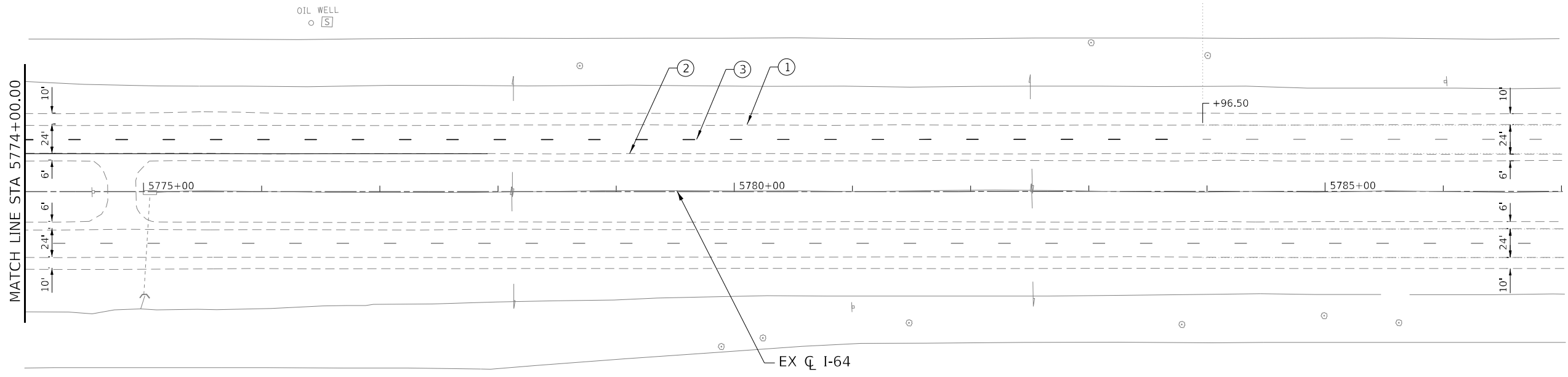
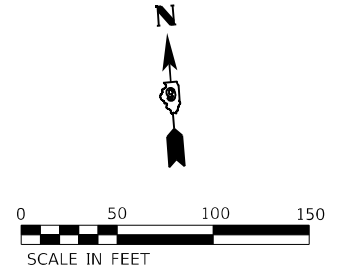
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PLOT DATE = 12/4/2023	DATE - 11/10/2023	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**ROADWAY PLAN  
I - 64**

SCALE: 1" = 50'    SHEET 2 OF 3 SHEETS    STA. 5759+00.00 TO STA. 5774+00.00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
64	(97-2B-2) BDR-1	WHITE	33	13
CONTRACT NO. 78A07				
ILLINOIS FED. AID PROJECT				



**LEGEND**

- ① PREFORMED PLASTIC PAVEMENT MARKING, TYPE B - LINE 4" (SOLID WHITE)
- ② PREFORMED PLASTIC PAVEMENT MARKING, TYPE B - LINE 4" (SOLID YELLOW)
- ③ PREFORMED PLASTIC PAVEMENT MARKING, TYPE B - LINE 6" (SKIP-DASH WHITE)

MODEL: SUT\_3  
 FILE NAME: S:\2023\12\11\033 - PTB 199-38 D9 - QEI - Various - HWOC-16 164 BR Resurf - 097-0051652\CADD\CADD Sheets\078A07-PTB.dwg



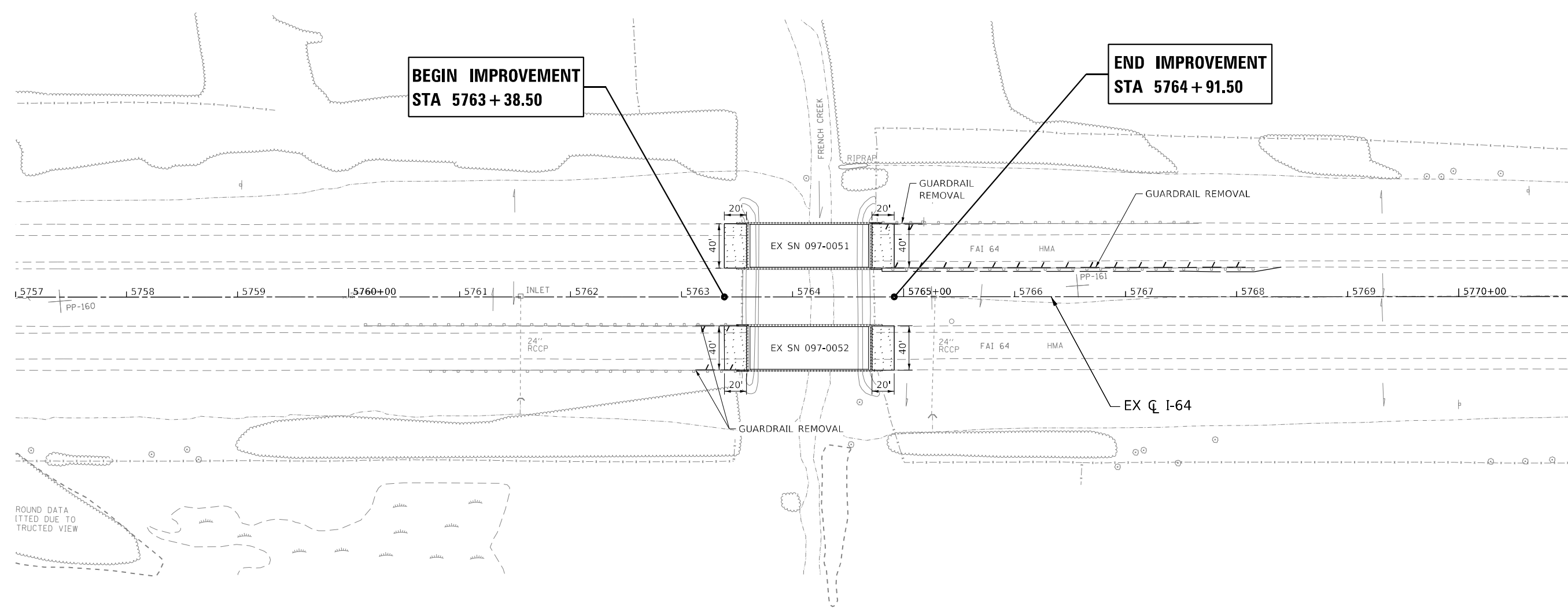
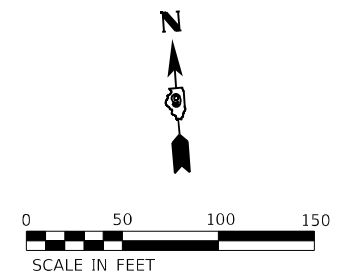
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PLOT SCALE = 100,0000 ' / in.	DATE - 11/10/2023	REVISED -
PLOT DATE = 12/4/2023		

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**ROADWAY PLAN  
I - 64**

SCALE: 1" = 50'      SHEET 3 OF 3 SHEETS      STA. 5774+00.00 TO STA. 5787+00.00

F.A.1 RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
64	(97-2B-2) BDR-1	WHITE	33	14
CONTRACT NO. 78A07				
ILLINOIS FED. AID PROJECT				



**BEGIN IMPROVEMENT  
STA 5763 + 38.50**

**END IMPROVEMENT  
STA 5764 + 91.50**

ROUND DATA  
FITTED DUE TO  
TRUNCATED VIEW

**LEGEND**

- LINEAR REMOVAL ITEM
- HOT-MIX ASPHALT SURFACE REMOVAL, 2"

MODEL: D:\p4\h...  
 FILE NAME: S:\2023\12\11\033...  
 PLOT DATE: 12/4/2023



USER NAME = smaxwell	DESIGNED - TO	REVISED -
PLOT SCALE = 100,0000' / in.	DRAWN - TO	REVISED -
PLOT DATE = 12/4/2023	CHECKED - MCV	REVISED -
	DATE - 11/10/2023	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**REMOVAL PLAN  
I - 64**

SCALE: 1" = 50' SHEET 1 OF 1 SHEETS STA. 5757+00.00 TO STA. 5771+00.00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
64	(97-2B-2) BDR-1	WHITE	33	15
CONTRACT NO. 78A07				
ILLINOIS FED. AID PROJECT				

**MAINTENANCE OF TRAFFIC GENERAL NOTES**

1. THE MAINTENANCE OF TRAFFIC CONTROL (MOT) PLANS SHALL SERVE AS A GUIDE FOR SAFE DIVERSION OF TRAFFIC DURING EXECUTION OF THIS CONTRACT. HOWEVER, THE CONTRACTOR MAY MODIFY THE MOT PLANS TO MEET CONSTRUCTION NEEDS, BUT NOT AT THE EXPENSE OF PUBLIC SAFETY OR CONVENIENCE. ANY CHANGES TO THE MOT PLANS SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL.
2. THE CONTRACTOR SHALL NOTIFY THE IDOT RESIDENT ENGINEER A MINIMUM OF 72 HOURS IN ADVANCE OF BEGINNING WORK AND 48 HOURS IN ADVANCE OF ANY PROPOSED CHANGE TO THE MOT PLANS.
3. ALL EXISTING PAVEMENT MARKINGS IN CONFLICT WITH THE MAINTENANCE OF TRAFFIC STRIPING SHALL BE BLACKED OUT OR REMOVED TO THE LIMITS SHOWN IN THE PLANS.
4. ALL TEMPORARY PAVEMENT MARKING WHICH CONFLICTS WITH THE NEXT STAGE OR FINAL STRIPING SHALL BE BLACKED OUT OR REMOVED TO THE LIMITS SPECIFIED IN THE PLANS.
5. ALL TRAFFIC CONTROL DEVICES USED FOR THE MAINTENANCE OF TRAFFIC, AS DETAILED ON THE PLANS OR HIGHWAY STANDARD, SHALL BE REFLECTORIZED PRIOR TO INSTALLATION AND CLEANED AS SPECIFIED IN THE MAINTENANCE OF TRAFFIC SPECIAL PROVISIONS OR AS DIRECTED BY THE ENGINEER.
6. ALL TRAFFIC CONTROL DEVICES LOCATIONS AND SPACING SHALL BE ACCORDING TO THE HIGHWAY STANDARDS UNLESS OTHERWISE SHOWN IN THE PLANS. ALL VERTICAL PANELS SHALL BE SPACED AT 40' INTERVALS WHERE SHOWN IN THE PLANS.
7. ALL DRUMS, VERTICAL PANELS AND BARRICADES ADJACENT TO THE EDGE OF TRAVELED WAY SHALL BE AS REQUIRED IN THE TRAFFIC CONTROL STANDARDS.
8. ALL EXISTING SIGNS WITHIN MAINTENANCE OF TRAFFIC LIMITS WHICH ARE OBSCURED BY OR INTERFERE WITH CONSTRUCTION OPERATIONS AND MAINTENANCE OF TRAFFIC, SHALL BE COVERED OR REMOVED BY THE CONTRACTOR UNLESS OTHERWISE SPECIFIED IN THE PLANS OR WHEN DIRECTED BY THE ENGINEER. THIS WORK SHALL BE IN ACCORDANCE WITH ARTICLE 107.25 OF THE IDOT STANDARD SPECIFICATIONS.

**SUGGESTED MAINTENANCE OF TRAFFIC SEQUENCING**

**STAGE I**

INSTALL THE EASTBOUND AND WESTBOUND PORTION OF CONSTRUCTION TRAFFIC CONTROL SIGNS, DRUMS, BARRICADES, TEMPORARY CONCRETE BARRIER AND TEMPORARY PAVEMENT MARKINGS AS DETAILED IN THE STAGE I PLANS AND APPROPRIATE STANDARD DRAWINGS.

MERGE ALL EASTBOUND TRAFFIC TO THE EXISTING INSIDE LANE AND SHOULDER.

MERGE ALL WESTBOUND TRAFFIC TO THE EXISTING INSIDE LANE AND SHOULDER.

COORDINATE WORK TO BE COMPLETED IN THIS STAGE WITH DETAILS IN THE BRIDGE PLANS.

INSTALL OUTSIDE TRAFFIC BARRIER TERMINALS, TYPE 6 IN THE EASTBOUND AND WESTBOUND DIRECTIONS AS DETAILED IN THE PLANS. VERTICALLY ADJUST ADJACENT POSTS AND RAIL AS NEEDED.

**STAGE II**

CHANGE THE CONSTRUCTION TRAFFIC CONTROL SIGNS, DRUMS, BARRICADES, TEMPORARY CONCRETE BARRIER AND TEMPORARY PAVEMENT MARKINGS AS DETAILED IN THE STAGE II PLANS AND APPROPRIATE STANDARD DRAWINGS.

MERGE ALL EASTBOUND TRAFFIC TO THE EXISTING OUTSIDE LANE AND SHOULDER.

MERGE ALL WESTBOUND TRAFFIC TO THE EXISTING OUTSIDE LANE AND SHOULDER.

REMOVE ALL CONFLICTING TRAFFIC CONTROL ITEMS FROM STAGE I SETUP.

COORDINATE WORK TO BE COMPLETED IN THIS STAGE WITH DETAILS IN THE BRIDGE PLANS.

INSTALL INSIDE GUARDRAIL IN WESTBOUND DIRECTION AS DETAILED IN THE PLANS

INSTALL INSIDE TRAFFIC BARRIER TERMINALS, TYPE 6 IN THE EASTBOUND DIRECTION AS DETAILED IN THE PLANS. VERTICALLY ADJUST POSTS AND RAIL AS NEEDED.

**POST STAGE**

REMOVE ALL CONSTRUCTION TRAFFIC CONTROL AND TEMPORARY CONSTRUCTION ITEMS.

REMOVE ANY REMAINING EXISTING AND TEMPORARY PAVEMENT MARKINGS WITHIN THE PERMANENT PAVEMENT MARKING LIMITS.

INSTALL PERMANENT PAVEMENT MARKINGS.

MODEL Path: \\... 199-38 D9 - PTB - 199-38 D9 - QEI - Various - HWOC-16 164 BR Repair 097-0051652\CADD\CADD Sheets\078A07-rt-ctg\mnotes.dgn  
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PLOT SCALE = 2,0000' / in.	CHECKED - MCV	REVISED -
PLOT DATE = 12/4/2023	DATE - 11/10/2023	REVISED -

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**MAINTENANCE OF TRAFFIC NOTES**

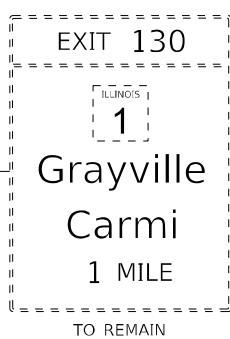
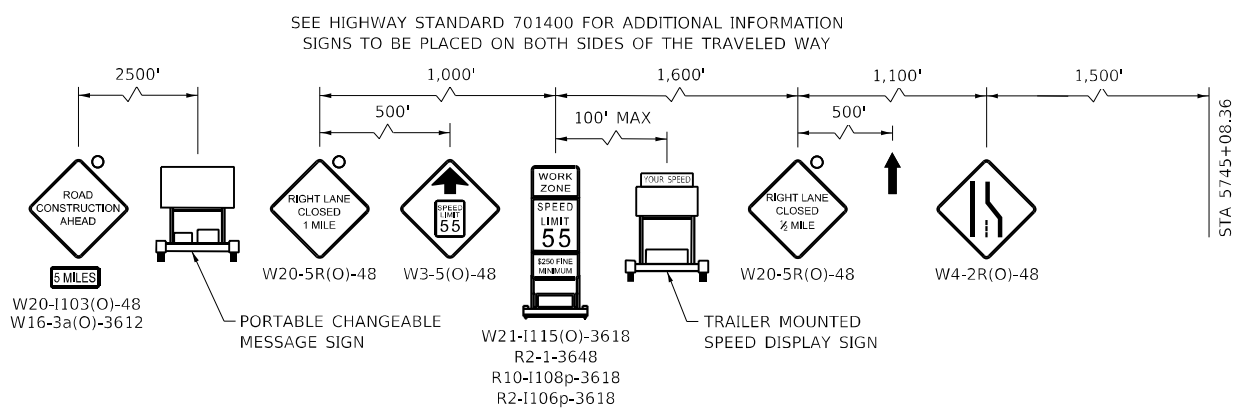
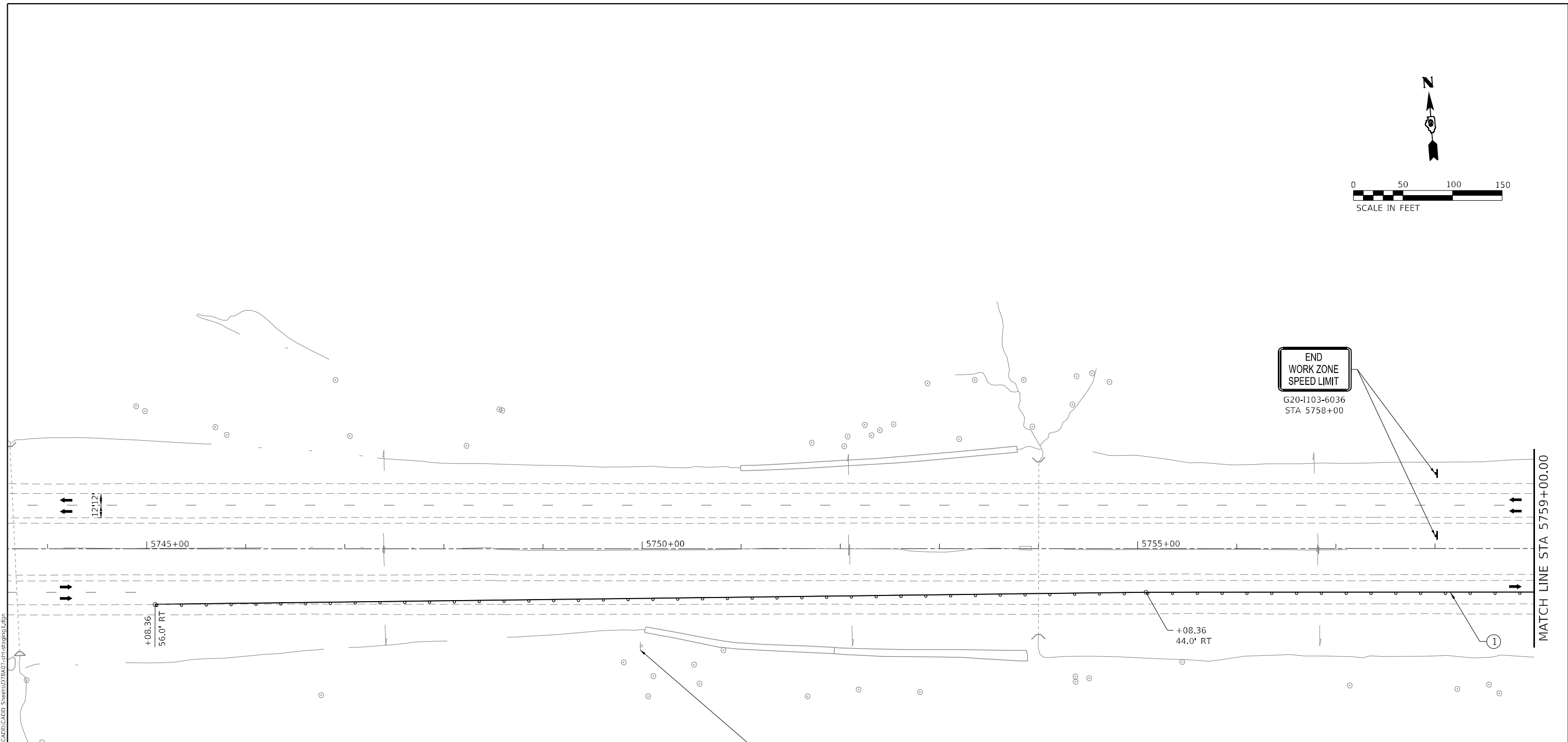
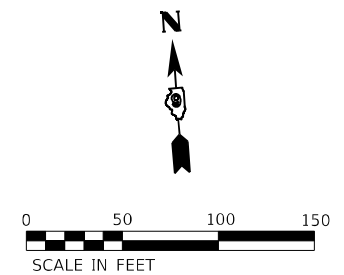
**I - 64**

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

F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
64	(97-2B-2) BDR-1	WHITE	33	16
CONTRACT NO. 78A07				
ILLINOIS FED. AID PROJECT				







**LEGEND**

- WORK ZONE
- IMPACT ATTENUATOR
- TRAFFIC SIGN
- VERTICAL PANEL WITH STEADY BURN LIGHT
- TEMPORARY CONCRETE BARRIER
- TYPE II BARRICADE OR DRUM WITH STEADY BURN LIGHT
- TYPE II DIRECTIONAL BARRICADE WITH STEADY BURN LIGHT
- DIRECTION OF TRAFFIC
- ARROW BOARD
- TEMPORARY PAVEMENT MARKING - LINE 4" - TYPE III TAPE (WHITE)
- TEMPORARY PAVEMENT MARKING - LINE 4" - TYPE III TAPE (YELLOW)

MODEL: SUT\_1  
 FILE NAME: S:\2021\12\11\033 - PTB 199-38 09 - QEI - Various - HW0-16 164 BR Resurf 097-0051652\CADD\CADD Sheets\078A07-ht-ctg.dgn

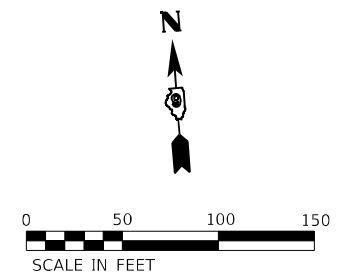


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PLOT DATE = 12/4/2023	CHECKED - MCV	REVISED -
	DATE - 11/10/2023	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

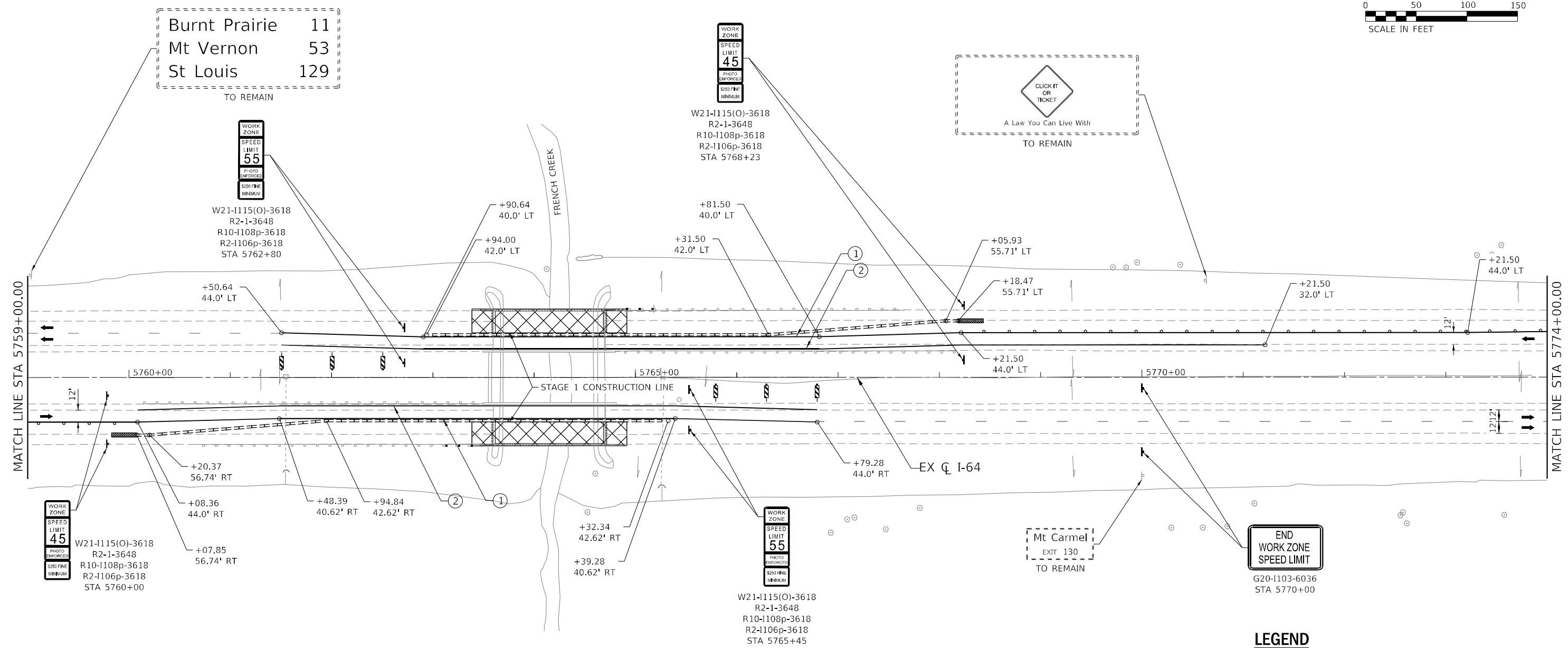
<b>MAINTENANCE OF TRAFFIC - STAGE I</b>			
<b>I - 64</b>			
SCALE: 1" = 50'	SHEET 1 OF 3 SHEETS	STA. 5744+00.00 TO STA. 5759+00.00	

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
64	(97-2B-2) BDR-1	WHITE	33	18
CONTRACT NO. 78A07				
ILLINOIS FED. AID PROJECT				



Burnt Prairie 11  
 Mt Vernon 53  
 St Louis 129  
 TO REMAIN

CLICK IT OR TICKET  
 A Law You Can Live With  
 TO REMAIN



**LEGEND**

- WORK ZONE
- IMPACT ATTENUATOR
- TRAFFIC SIGN
- VERTICAL PANEL WITH STEADY BURN LIGHT
- TEMPORARY CONCRETE BARRIER
- TYPE II BARRICADE OR DRUM WITH STEADY BURN LIGHT
- TYPE II DIRECTIONAL BARRICADE WITH STEADY BURN LIGHT
- DIRECTION OF TRAFFIC
- ARROW BOARD
- TEMPORARY PAVEMENT MARKING - LINE 4" - TYPE III TAPE (WHITE)
- TEMPORARY PAVEMENT MARKING - LINE 4" - TYPE III TAPE (YELLOW)

MODEL: SUT\_2  
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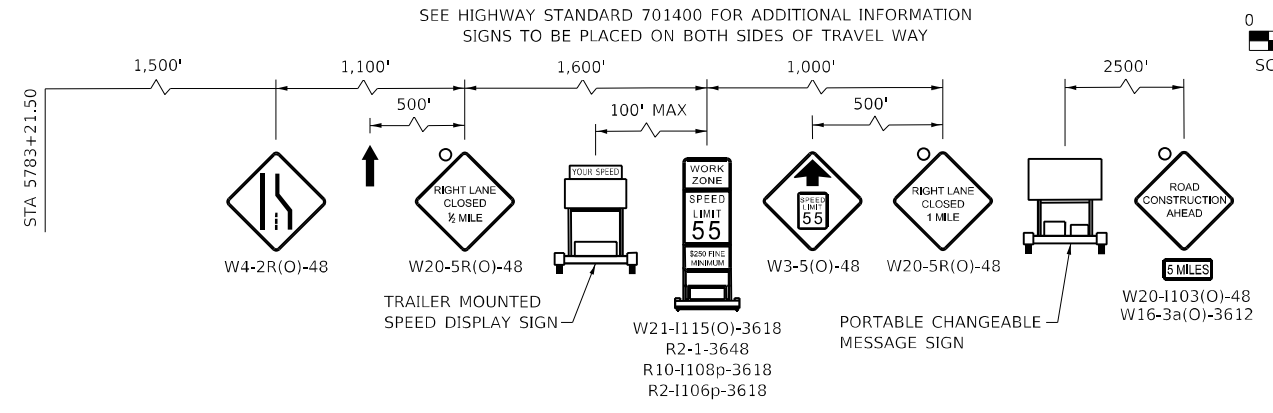


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PLOT DATE = 12/4/2023	DATE - 11/10/2023	REVISED -

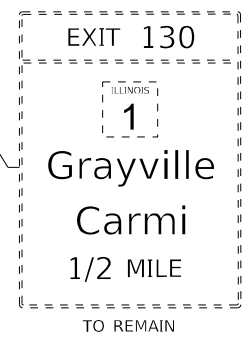
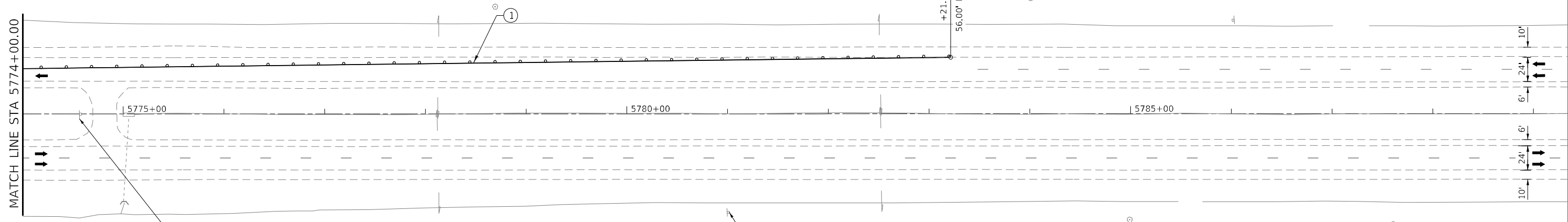
**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**MAINTENANCE OF TRAFFIC - STAGE I**  
**I - 64**  
 SCALE: 1" = 50' SHEET 2 OF 3 SHEETS STA. 5759+00.00 TO STA. 5774+00.00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
64	(97-2B-2) BDR-1	WHITE	33	19
CONTRACT NO. 78A07				
ILLINOIS FED. AID PROJECT				



OIL WELL  
○ 5



**LEGEND**

	WORK ZONE
	IMPACT ATTENUATOR
	TRAFFIC SIGN
	VERTICAL PANEL WITH STEADY BURN LIGHT
	TEMPORARY CONCRETE BARRIER
	TYPE II BARRICADE OR DRUM WITH STEADY BURN LIGHT
	TYPE II DIRECTIONAL BARRICADE WITH STEADY BURN LIGHT
	DIRECTION OF TRAFFIC
	ARROW BOARD
①	TEMPORARY PAVEMENT MARKING - LINE 4" - TYPE III TAPE (WHITE)
②	TEMPORARY PAVEMENT MARKING - LINE 4" - TYPE III TAPE (YELLOW)

MODEL: SUT\_3  
FILE NAME: S:\2023\12\11\033 - PTB 199-38 D9 - QEI - Various - HWOC-16 164 BR - Resurf - 097-0051652\CADD\CADD Sheets\078A07-ph-ctg.dgn

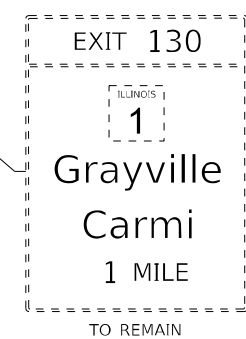
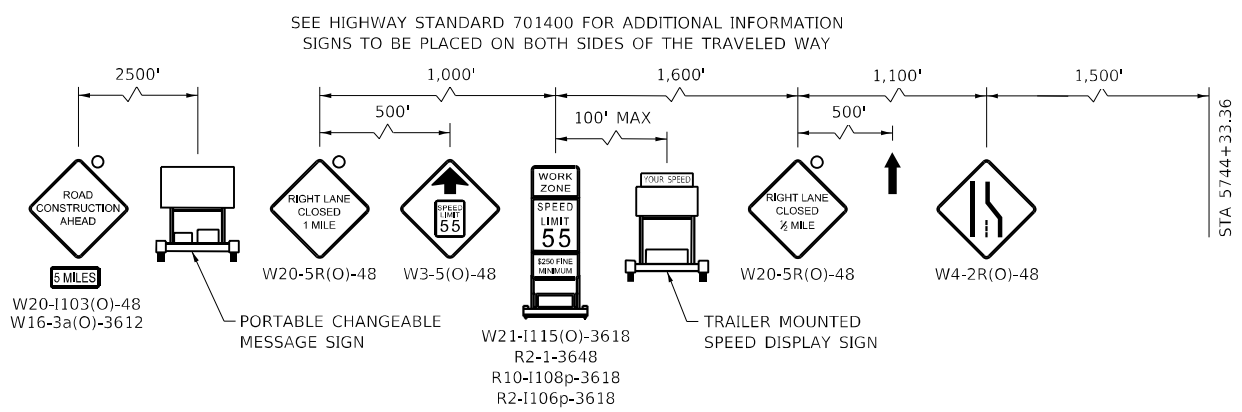
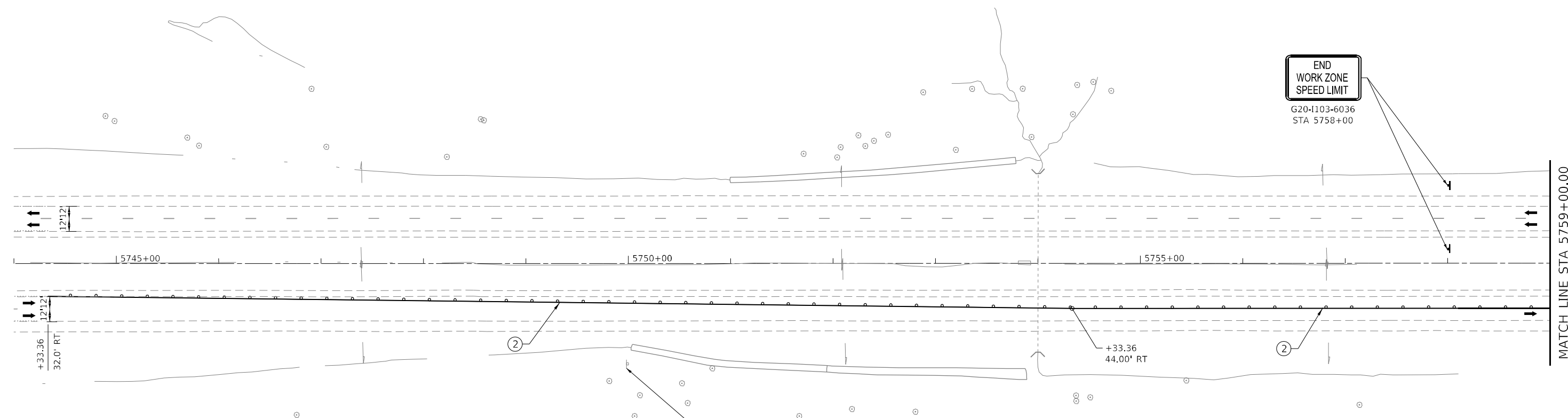
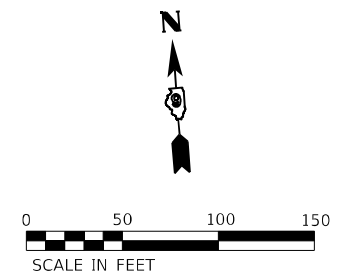


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PLOT SCALE = 100,0000' / in.	CHECKED - MCV	REVISED -
PLOT DATE = 12/4/2023	DATE - 11/10/2023	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

<b>MAINTENANCE OF TRAFFIC - STAGE I</b>	
<b>I - 64</b>	
SCALE: 1" = 50'	SHEET 3 OF 3 SHEETS STA. 5774+00.00 TO STA. 5789+00.00

F.A.1 RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
64	(97-2B-2) BDR-1	WHITE	33	20
CONTRACT NO. 78A07				
ILLINOIS FED. AID PROJECT				



**LEGEND**

- WORK ZONE
- IMPACT ATTENUATOR
- TRAFFIC SIGN
- VERTICAL PANEL WITH STEADY BURN LIGHT
- TEMPORARY CONCRETE BARRIER
- TYPE II BARRICADE OR DRUM WITH STEADY BURN LIGHT
- TYPE II DIRECTIONAL BARRICADE WITH STEADY BURN LIGHT
- DIRECTION OF TRAFFIC
- ARROW BOARD
- TEMPORARY PAVEMENT MARKING - LINE 4" - TYPE III TAPE (WHITE)
- TEMPORARY PAVEMENT MARKING - LINE 4" - TYPE III TAPE (YELLOW)

MODEL: SUT\_1  
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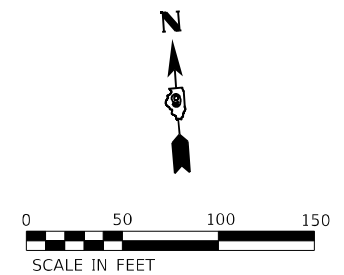


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PLOT DATE = 12/4/2023	CHECKED - MCV	REVISED -
	DATE - 11/10/2023	REVISED -

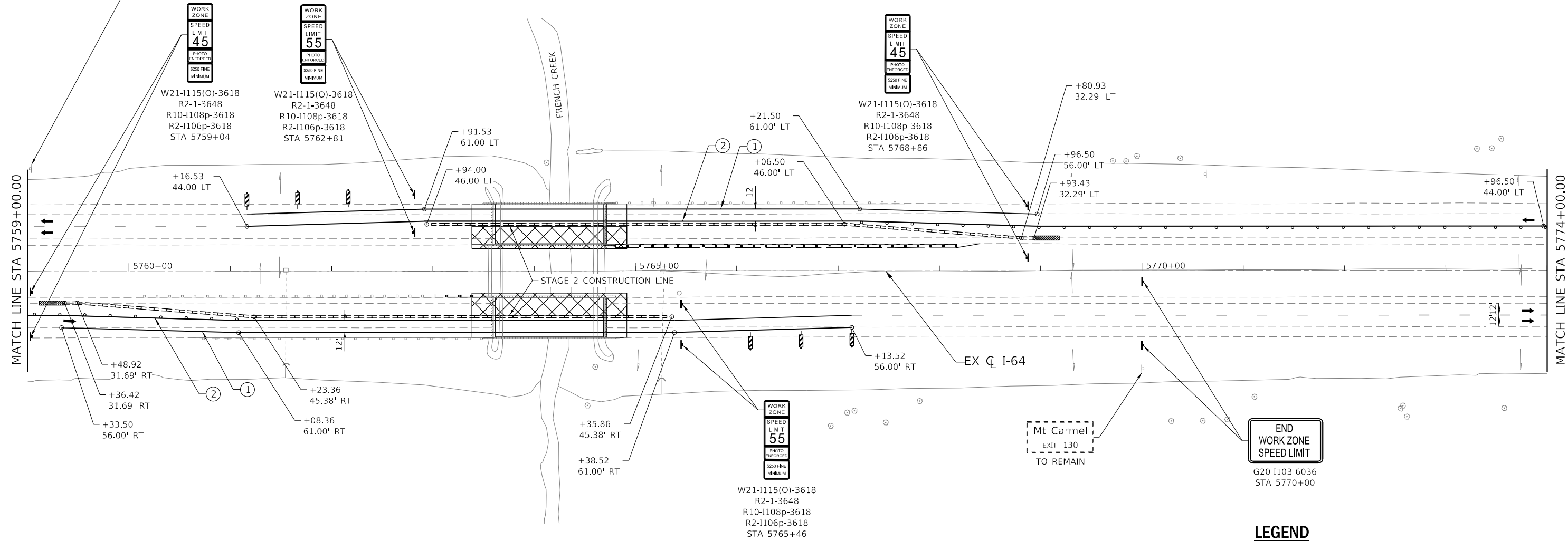
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

<b>MAINTENANCE OF TRAFFIC - STAGE II</b>	
<b>I - 64</b>	
SCALE: 1" = 50'	SHEET 1 OF 3 SHEETS STA. 5744+00.00 TO STA. 5759+00.00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
64	(97-2B-2) BDR-1	WHITE	33	21
CONTRACT NO. 78A07				
ILLINOIS FED. AID PROJECT				



Burnt Prairie 11  
 Mt Vernon 53  
 St Louis 129  
 TO REMAIN



Mt Carmel  
 EXIT 130  
 TO REMAIN

END  
 WORK ZONE  
 SPEED LIMIT  
 G20-1103-6036  
 STA 5770+00

- LEGEND**
- WORK ZONE
  - IMPACT ATTENUATOR
  - TRAFFIC SIGN
  - VERTICAL PANEL WITH STEADY BURN LIGHT
  - TEMPORARY CONCRETE BARRIER
  - TYPE II BARRICADE OR DRUM WITH STEADY BURN LIGHT
  - TYPE II DIRECTIONAL BARRICADE WITH STEADY BURN LIGHT
  - DIRECTION OF TRAFFIC
  - ARROW BOARD
  - TEMPORARY PAVEMENT MARKING - LINE 4" - TYPE III TAPE (WHITE)
  - TEMPORARY PAVEMENT MARKING - LINE 4" - TYPE III TAPE (YELLOW)

MODEL: SUT\_2  
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 DATE: 12/4/2023



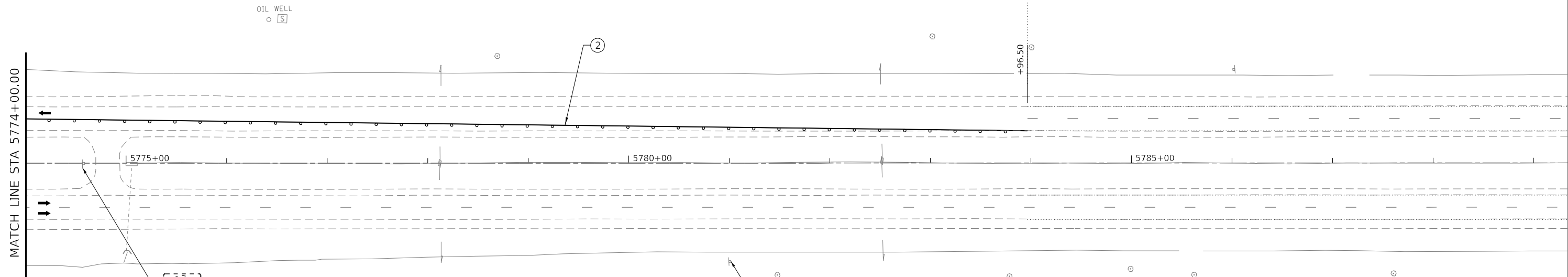
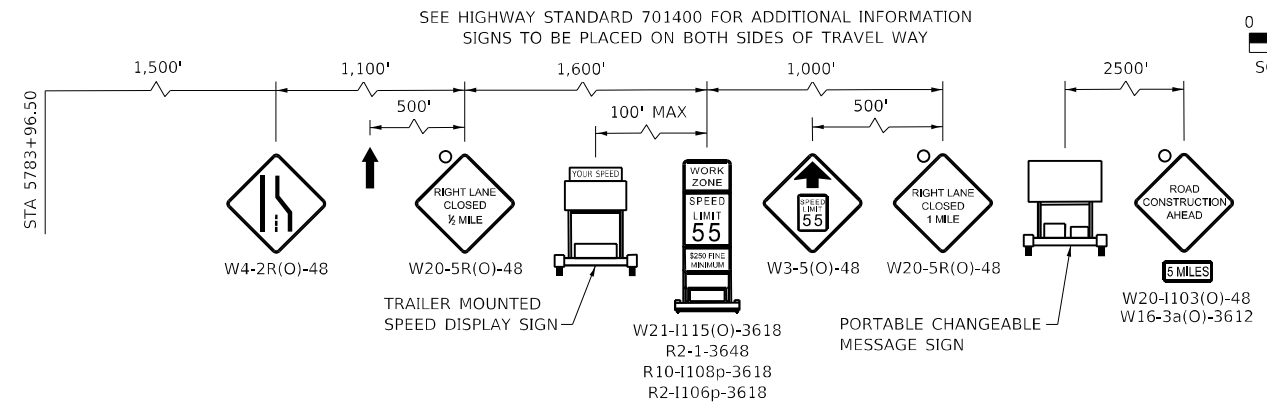
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DRAWN - TO	REVISED -	
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PLOT DATE = 12/4/2023	DATE - 11/10/2023	REVISED -

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**MAINTENANCE OF TRAFFIC - STAGE II**  
**I - 64**

SCALE: 1" = 50'    SHEET 2 OF 3 SHEETS    STA. 5759+00.00 TO STA. 5774+00.00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
64	(97-2B-2) BDR-1	WHITE	33	22
CONTRACT NO. 78A07				
ILLINOIS FED. AID PROJECT				



EXCEPT  
AUTHORIZED  
VEHICLES  
TO REMAIN

EXIT 130  
1  
Grayville  
Carmi  
1/2 MILE  
TO REMAIN

**LEGEND**

	WORK ZONE
	IMPACT ATTENUATOR
	TRAFFIC SIGN
	VERTICAL PANEL WITH STEADY BURN LIGHT
	TEMPORARY CONCRETE BARRIER
	TYPE II BARRICADE OR DRUM WITH STEADY BURN LIGHT
	TYPE II DIRECTIONAL BARRICADE WITH STEADY BURN LIGHT
	DIRECTION OF TRAFFIC
	ARROW BOARD
①	TEMPORARY PAVEMENT MARKING - LINE 4" - TYPE III TAPE (WHITE)
②	TEMPORARY PAVEMENT MARKING - LINE 4" - TYPE III TAPE (YELLOW)

MODEL: SUT\_3  
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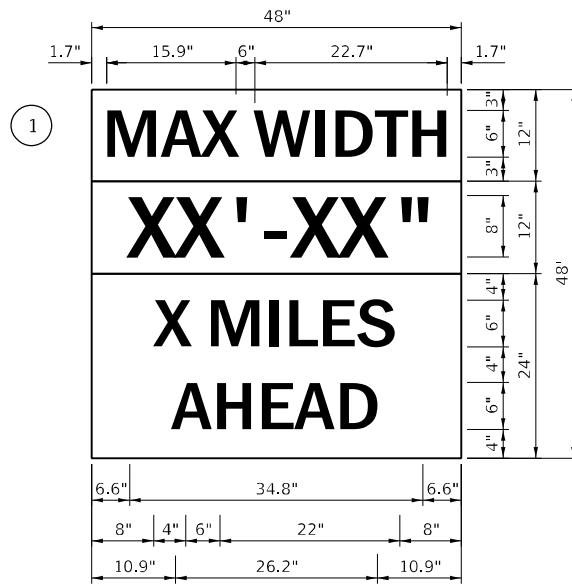
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PLOT DATE = 12/4/2023	DATE - 11/10/2023	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

<b>MAINTENANCE OF TRAFFIC - STAGE II</b>	
<b>I - 64</b>	
SCALE: 1" = 50'	SHEET 3 OF 3 SHEETS
STA. 5774+00.00 TO STA. 5789+00.00	

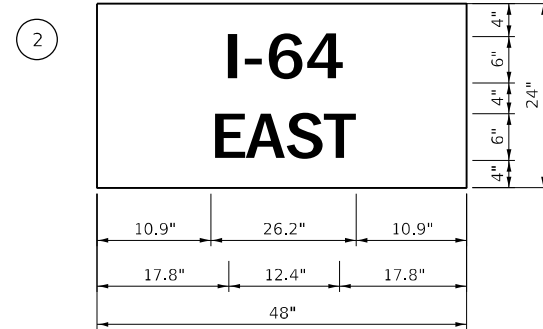
F.A.1 RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
64	(97-2B-2) BDR-1	WHITE	33	23
CONTRACT NO. 78A07				
ILLINOIS FED. AID PROJECT				

**SIGN LEGEND**

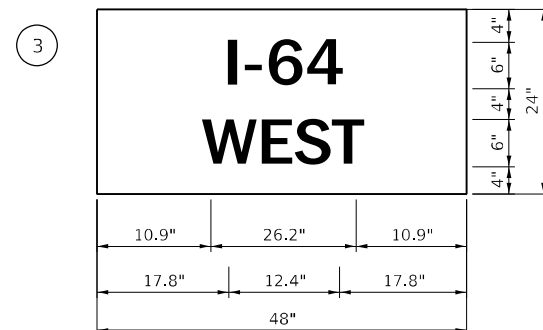


**W12-I103**

W12-I103 (WIDTH IS 8D);  
 NO BORDER, BLACK ON WHITE;  
 "MAX WIDTH" D;  
 NO BORDER, BLACK ON ORANGE;  
 "XX'-XX'" D;  
 NO BORDER, BLACK ON WHITE;  
 "X MILES" D; "AHEAD" D



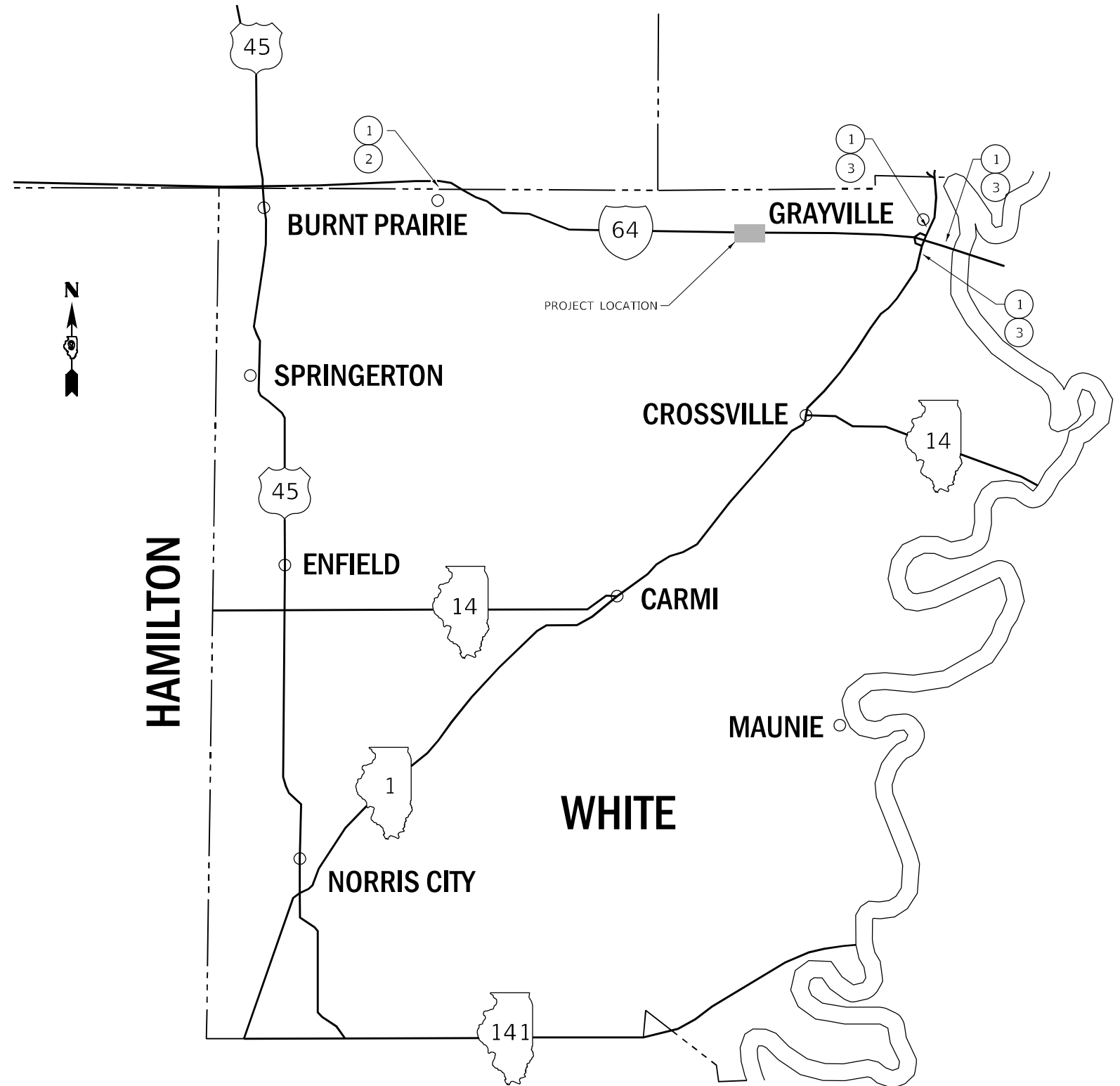
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 "I-64" D;  
 NO BORDER, BLACK ON WHITE;  
 "EAST" D  
 FOR WESTBOUND REPLACE "EAST"  
 WITH "WEST"



NO BORDER, BLACK ON WHITE;  
 "I-64" D;  
 NO BORDER, BLACK ON WHITE;  
 "EAST" D  
 FOR WESTBOUND REPLACE "EAST"  
 WITH "WEST"

**WIDE LOAD NOTES:**

1. THE CONTRACTOR SHALL FURNISH THE POSTS AND ERECT THE SIGNS AT THE LOCATIONS AS DIRECTED BY THE ENGINEER. ALL SIGNS SHALL BE POST MOUNTED.
2. THE WIDTH SHOWN ON THE W12-I103 SIGN #1 SHALL BE 12'-9" FOR STAGE I AND 16'-9" FOR STAGE II OR AS DIRECTED BY THE ENGINEER. THE "X" MILES AHEAD WILL BE DETERMINED BY THE ENGINEER.
3. THE ABOVE NOTED WORK, INCLUDING SIGNS, POSTS, HARDWARE AND LABOR SHALL BE INCLUDED IN THE CONTRACT UNIT PRICE, EACH, FOR TRAFFIC CONTROL AND PROTECTION, STANDARD 701402 AND NO OTHER COMPENSATION WILL BE ALLOWED.



**WIDE LOAD SIGNING PLAN**

MODEL SHEET 2  
 FILE NAME: S:\2021\11\033 - PFB 199-38 D9 - QEI - Various HWOC-16 164 BR Resurf 097-0051652\CADD\CADD Sheets\0975A07-2-1c-drtbdr.dgn



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**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

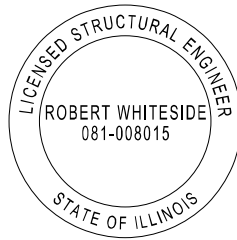
<b>WIDE LOAD SIGNING PLAN</b>	
<b>I - 64</b>	
SCALE: NONE	SHEET 1 OF 1 SHEETS STA. TO STA.

F.A.1 RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
64	(97-2B-2) BDR-1	WHITE	33	24
CONTRACT NO. 78A07				
ILLINOIS FED. AID PROJECT				



Existing Structures: S.N. 097-0051 & 097-0052 (I-64), originally built in 1972, as a three-span continuous wide flange steel beam superstructures with stub abutments and solid wall piers. The back to back length = 114'-0" and the out to out width = 42'-0". In 2014 an HMA overlay was applied to both structures and the deck joints were replaced. Bridges are to be repaired as detailed in these plans. Stage construction will be used to maintain traffic.

No Salvage



*Robert Whiteside*  
 Robert Whiteside, Illinois S.E. 081-008015 Date 11/29/2023  
 Expires 11/30/2024

**TOTAL BILL OF MATERIAL**

ITEM	UNIT	SUPER	SUB	TOTAL
Concrete Removal	Cu. Yd.	3.4		3.4
Concrete Superstructures	Cu. Yd.	3.8		3.8
Protective Coat	Sq. Yd.	930		930
Reinforcement Bars, Epoxy Coated	Pound	420		420
Hot-Mix Asphalt Surface Removal (Deck)	Sq. Yd.	914		914
Bridge Deck Scarification 1"	Sq. Yd.	914		914
Bridge Deck Microsilica Concrete Overlay 3 1/4"	Sq. Yd.	914		914
Structural Repair of Concrete (Depth Equal to or Less Than 5")	Sq. Ft.		27	27
Structural Repair of Concrete (Depth Greater Than 5")	Sq. Ft.		7	7
Deck Slab Repair (Full Depth, Type II)	Sq. Yd.	1		1
Diamond Grinding (Bridge Section)	Sq. Yd.	820		820
Polymer Concrete	Cu. Ft.	3.6		3.6
Bridge Deck Grooving (Longitudinal)	Sq. Yd.	820		820

**GENERAL NOTES**

No field welding is permitted except as specified in the contract documents.

Reinforcement bars designated (E) shall be epoxy coated.

Plan dimensions and details relative to existing plans are subject to nominal construction variations. The Contractor shall field verify existing dimensions and details affecting new construction and make necessary approved adjustments prior to construction or ordering of materials. Such variations shall not be cause for additional compensation for a change in scope of the work, however, the Contractor will be paid for the quantity actually furnished at the unit price bid for the work.

Existing reinforcement bars extending into the removal area shall be cleaned, straightened and incorporated into the new construction. Any reinforcement bars that are damaged during concrete removal shall be replaced with an approved bar splicer or anchorage system. Cost included with Concrete Removal.

Up to 1/4 inch to be ground off the bridge deck.

The protective coat shall be applied to the new microsilica concrete overlay and new portions of the wingwalls.

The Bridge Deck Grooving (Longitudinal) shall be applied along the length of the bridge and over a width that extends to within 2' of the toe of each parapet.

**DESIGN SPECIFICATIONS**

2002 AASHTO Standard Specifications for Highway Bridges, 17th Edition

**DESIGN STRESSES**

**FIELD UNITS (NEW CONST.)**

f'c = 4,000 psi (Superstructure)

fy = 60,000 psi (Reinforcement)

**FIELD UNITS (EXIST. CONST.)**

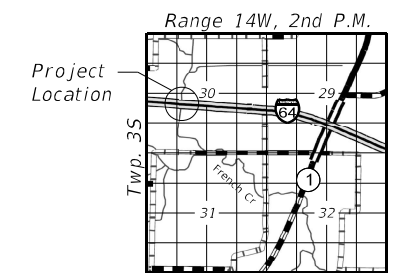
f'c = 3,500 psi (Super & Sub)

fy = 40,000 psi (Reinforcement)

fy = 36,000 psi (Structural Steel)

**LOADING HS20-44**

Existing and Proposed



LOCATION SKETCH

**INDEX OF SHEETS**

1. General Plan and Elevation
2. Stage Construction Details
3. Temporary Concrete Barrier
4. Westbound Bridge Deck Overlay Plan
5. Eastbound Bridge Deck Overlay Plan
6. Bridge Deck Overlay Details
7. Westbound Abutment Repair Details
8. Eastbound Abutment Repair Details
9. Wingwall Modification Details

**SCOPE OF WORK**

1. Remove the existing HMA overlay and WMS.
2. Scarify the bridge deck.
3. Complete full depth deck repairs.
4. Place a microsilica concrete overlay.
5. Diamond grind the bridge deck.
6. Concrete repair of abutments.
7. Modify the wingwall at the approach ends.

**GENERAL PLAN & ELEVATION**

**I-64 OVER FRENCH CREEK**

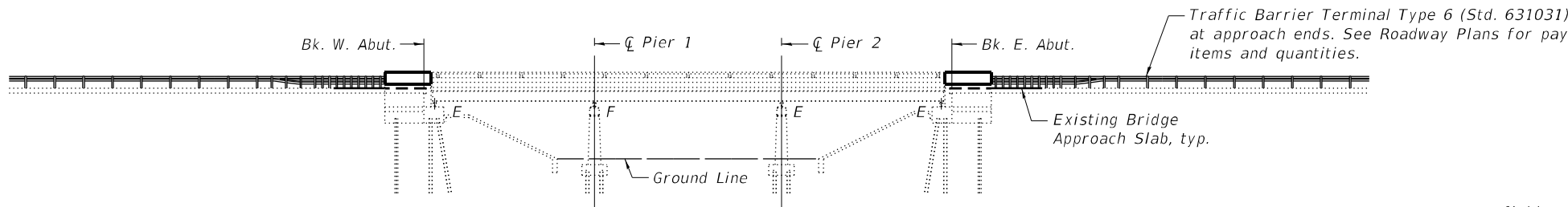
**F.A.I. RTE. 64**

**SECTION (97-2B-2)BDR-1**

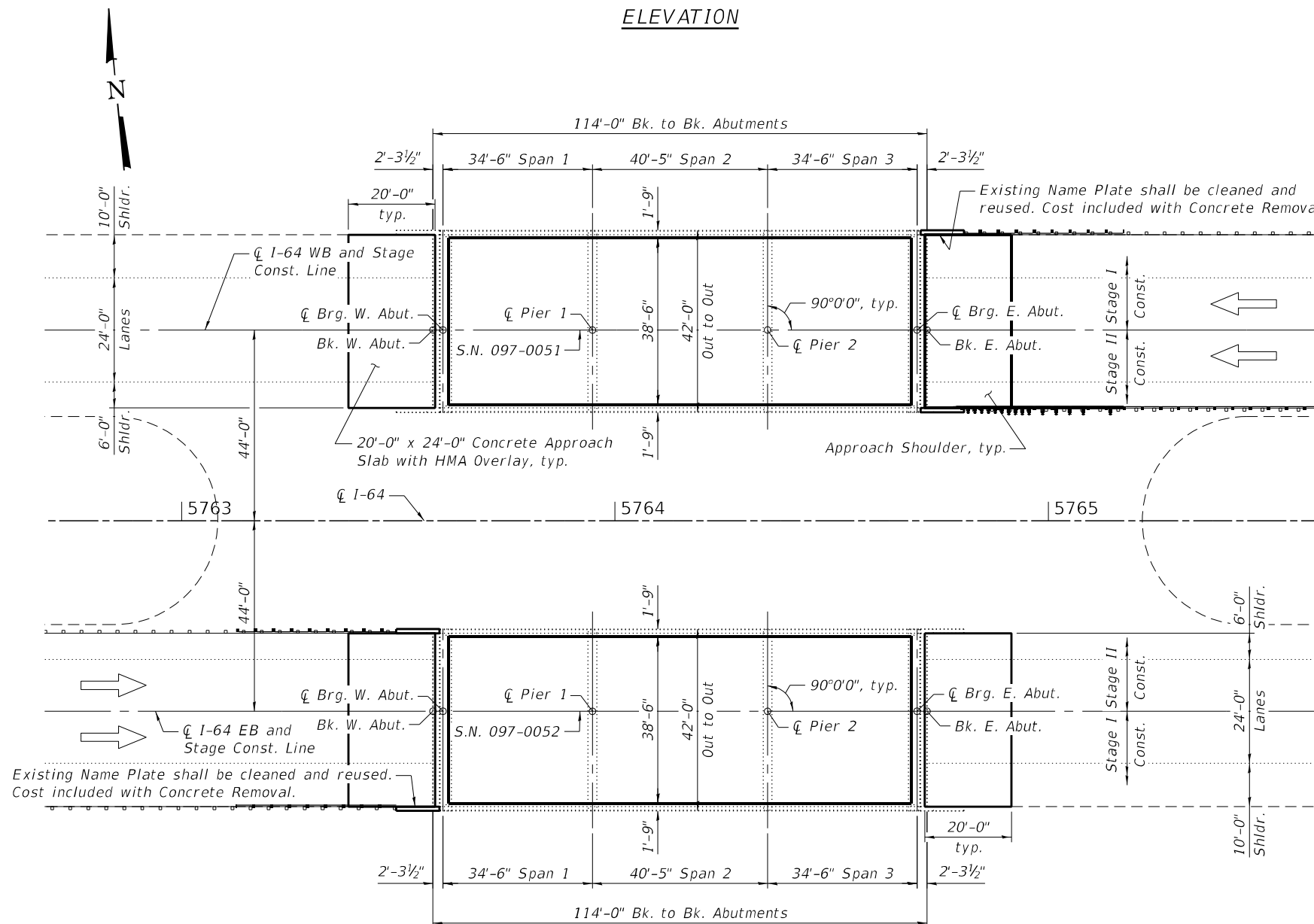
**WHITE COUNTY**

**STRUCTURES NO. 097-0051 (WB)**

**& 097-0052 (EB)**



**ELEVATION**



**PLAN**

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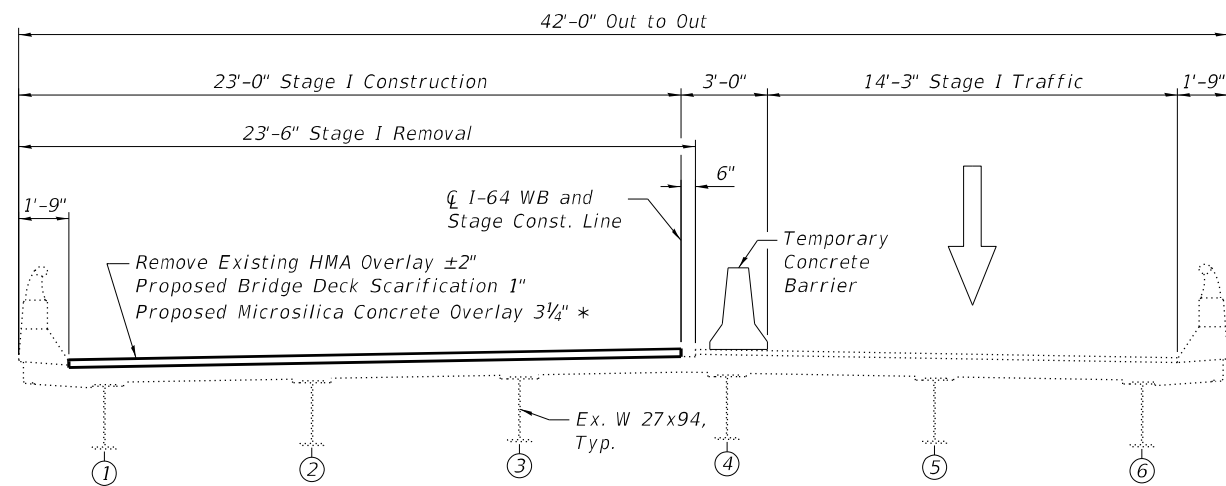
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**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

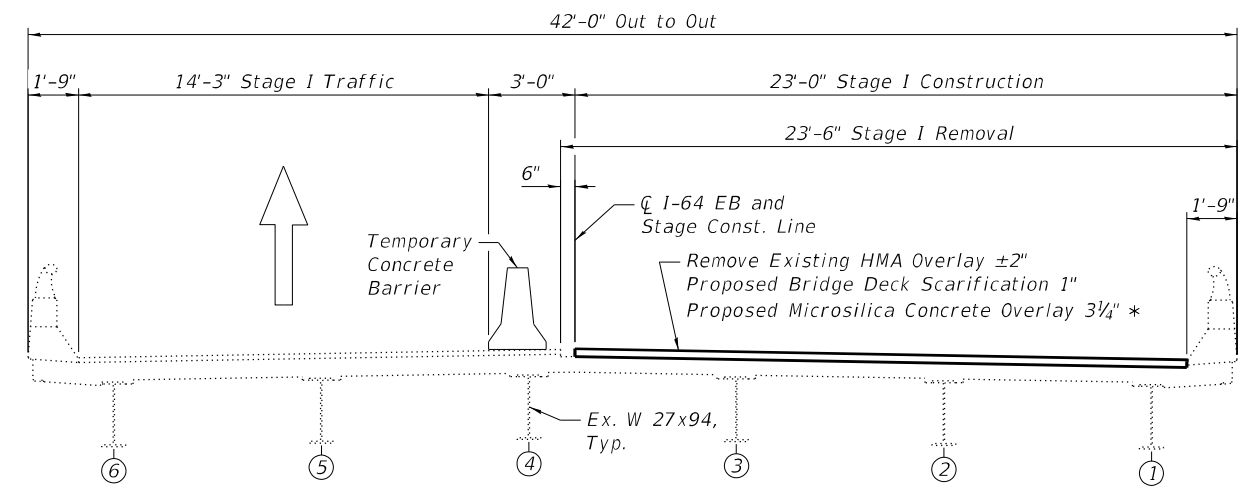
**GENERAL PLAN AND ELEVATION  
 STRUCTURES NO. 097-0051 & 097-0052**

SHEET 1 OF 9 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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CONTRACT NO. 78A07				
ILLINOIS FED. AID PROJECT				

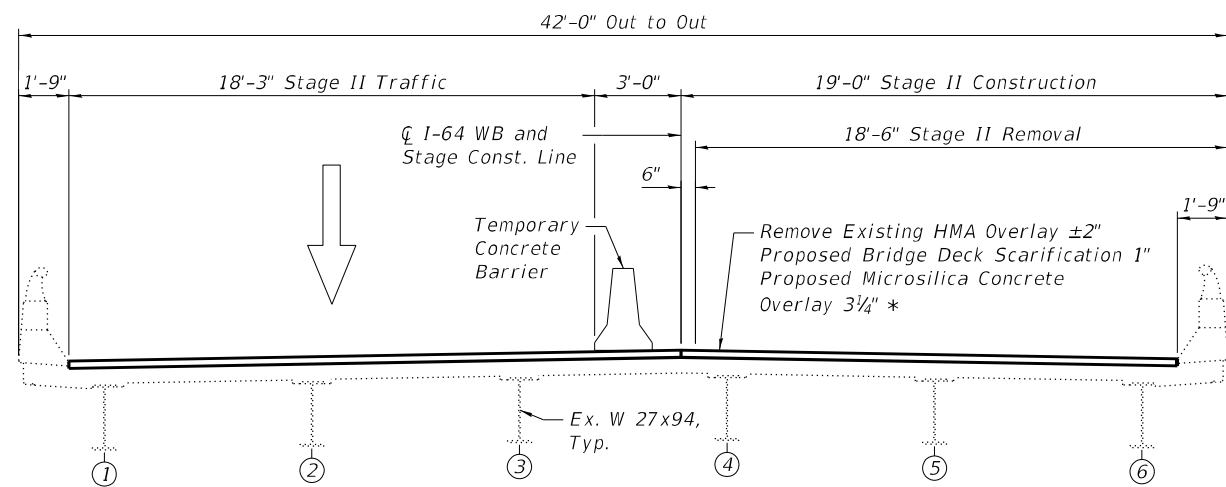


**STAGE I WESTBOUND CONSTRUCTION**  
(Looking East)

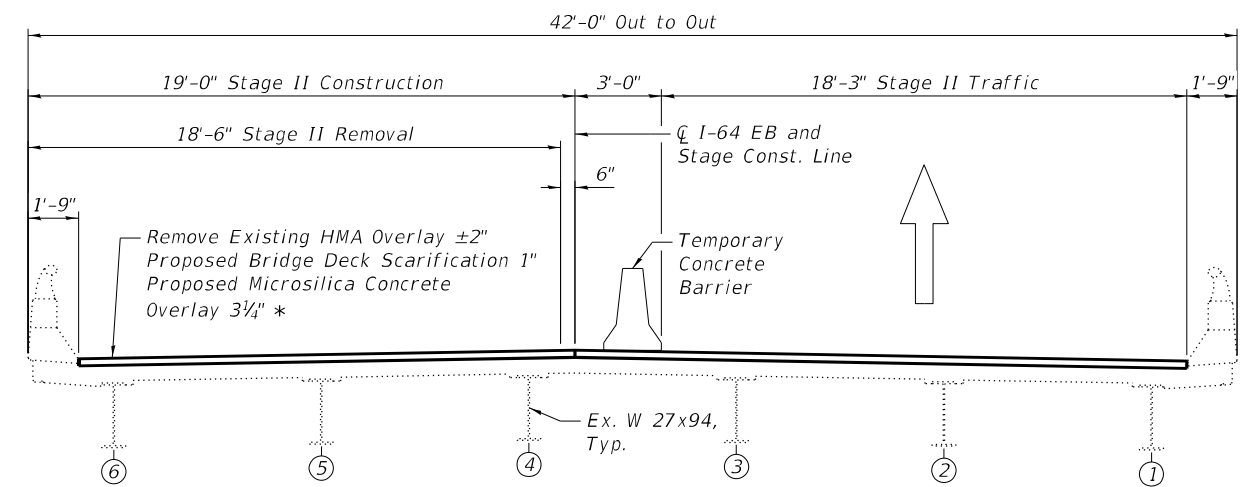


**STAGE I EASTBOUND CONSTRUCTION**  
(Looking East)

\* Prior to grinding



**STAGE II WESTBOUND CONSTRUCTION**  
(Looking East)



**STAGE II EASTBOUND CONSTRUCTION**  
(Looking East)

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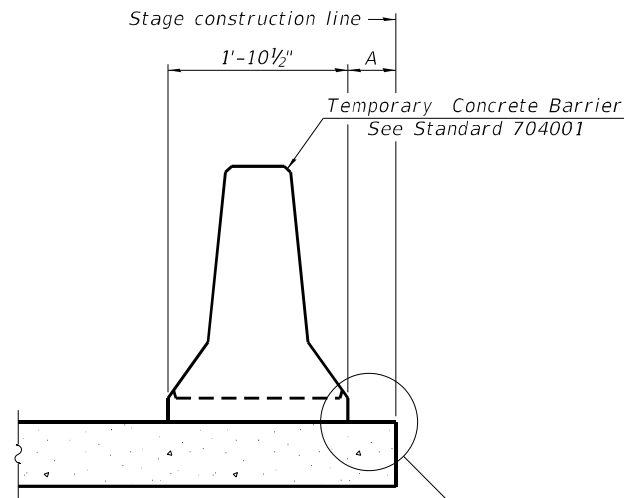
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**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**STAGE CONSTRUCTION DETAILS  
STRUCTURES NO. 097-0051 & 097-0052**

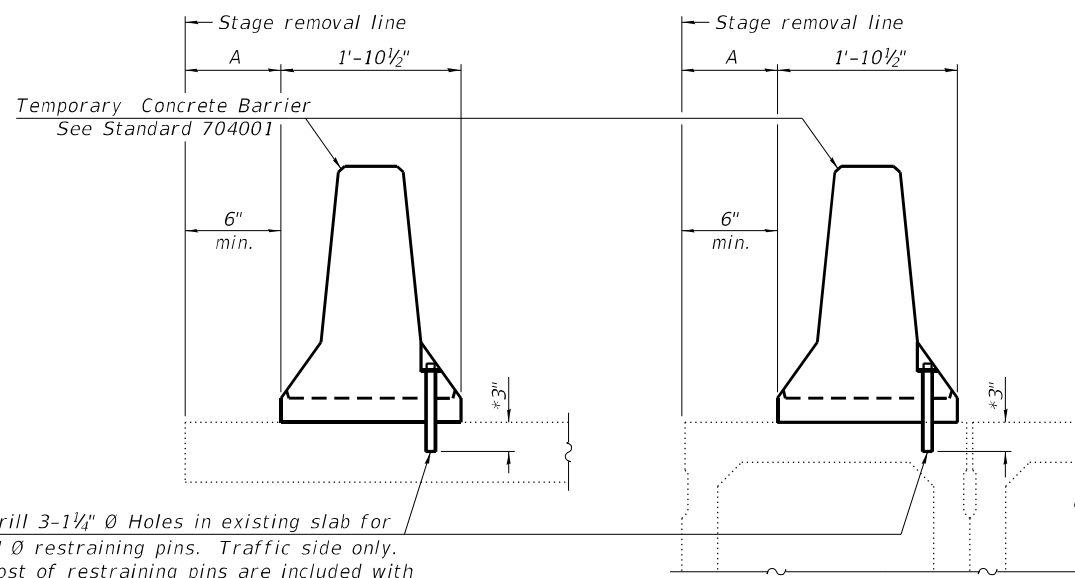
SHEET 2 OF 9 SHEETS

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64	(97-2B-2)BDR-1	WHITE	33	26
CONTRACT NO. 78A07				
ILLINOIS FED. AID PROJECT				



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

NEW SLAB OR NEW DECK BEAM



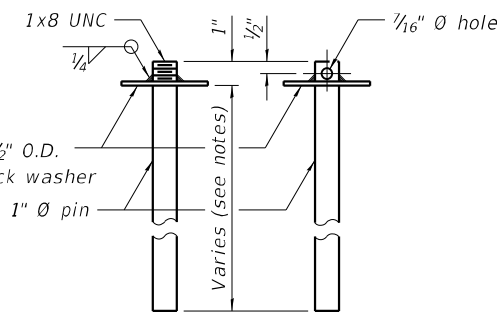
Drill 3-1/4" Ø Holes in existing slab for 1" Ø restraining pins. Traffic side only. Cost of restraining pins are included with Temporary Concrete Barrier. No restraint is required when "A" is greater than 3'-1".

EXISTING SLAB

EXISTING DECK BEAM

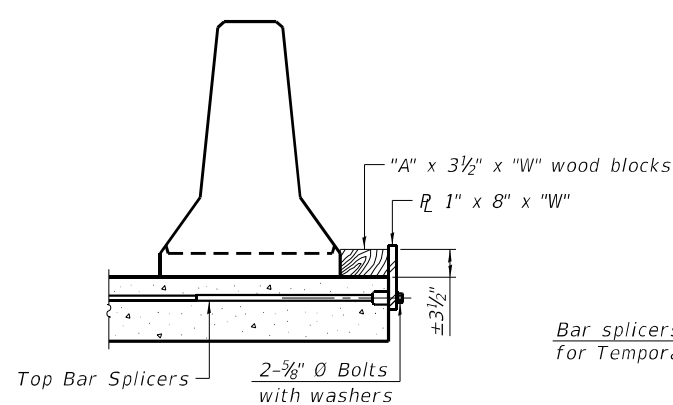
\* When hot-mix asphalt wearing surface is present, embedment shall be 3" plus the wearing surface depth.

SECTIONS THRU SLAB OR DECK BEAM

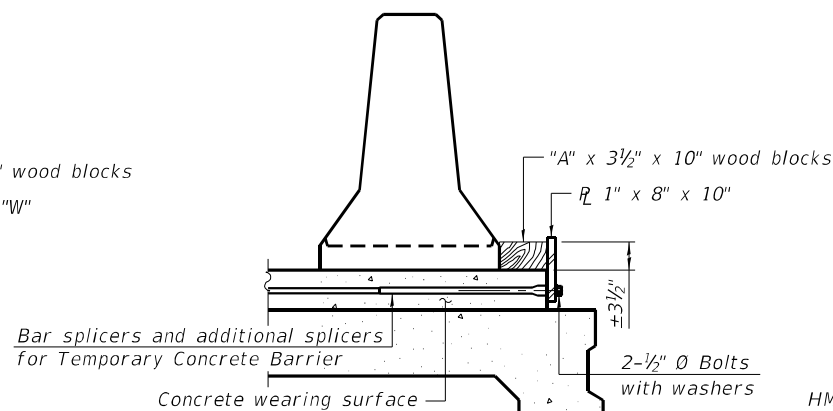


US Std. 1 1/16" I.D. x 2 1/2" O.D. x approx. 8 gauge thick washer

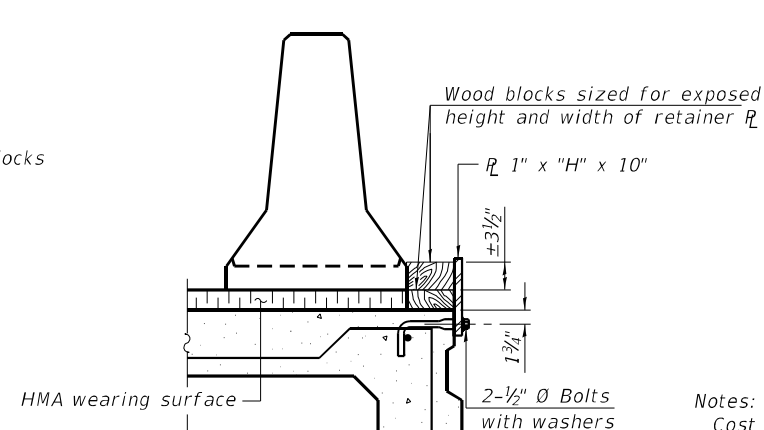
RESTRAINING PIN



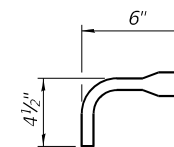
DETAIL I



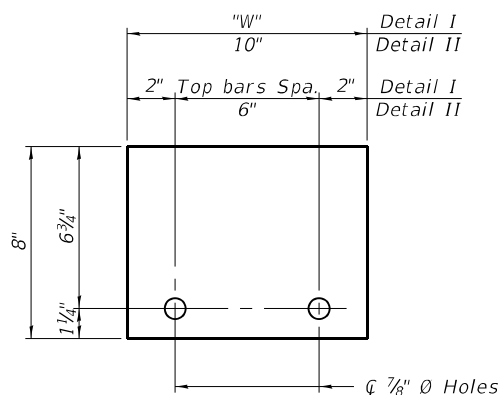
DETAIL II



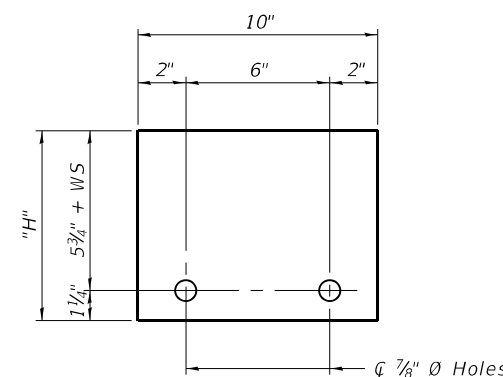
DETAIL III



BAR SPLICER FOR #4 BAR - DETAIL III



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



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

Notes:  
 Cost of retainer assembly is included with Temporary Concrete Barrier.  
 A retainer assembly shall be located at the approximate  $\bar{c}$  of each temporary concrete barrier.  
 The retainer plate shall not be removed until the concrete on the adjacent stage is ready to be poured. For Detail III applications the retainer plate shall not be removed until just prior to placing the adjacent beam.  
 When the 'A' dimension is less than 1 1/2', the wood block shall be omitted and the barrier shall be placed in direct contact with the steel retainer plate. For deck beam applications the minimum required 'A' distance is 6" to accommodate the shear key clamping device.

Detail I - Installation for a new bridge deck or bridge slab.  
 Detail II - Installation for a new deck beam with an initial concrete wearing surface. Additional bar splicers shall be provided at 6'-0" centers and paired with the bar splicers of the concrete wearing surface reinforcement to accommodate the installation of the retainer assemblies. The cost of the additional bar splicers is included with the concrete wearing surface.  
 Detail III - Installation for a new deck beam with no initial wearing surface or with an initial hot-mix asphalt (HMA) wearing surface present. The deck beam directly beneath the temporary concrete barrier shall be fabricated with bar splicer inserts in the side of the beam, as detailed, to accommodate the installation of the retainer assemblies. A pair of bar splicers, 6" apart, shall be placed at 6'-0" centers along the length of the beam. The cost of the bar splicers is included with the deck beam.

RAILING CRITERIA

NCHRP 350 Test Level	3
Railing Weight (plf)	440

R-27 10-12-2021

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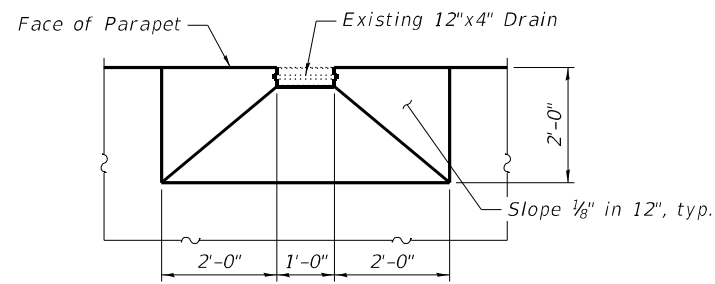
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STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

TEMPORARY CONCRETE BARRIER  
 STRUCTURES NO. 097-0051 & 097-0052

SHEET 3 OF 9 SHEETS

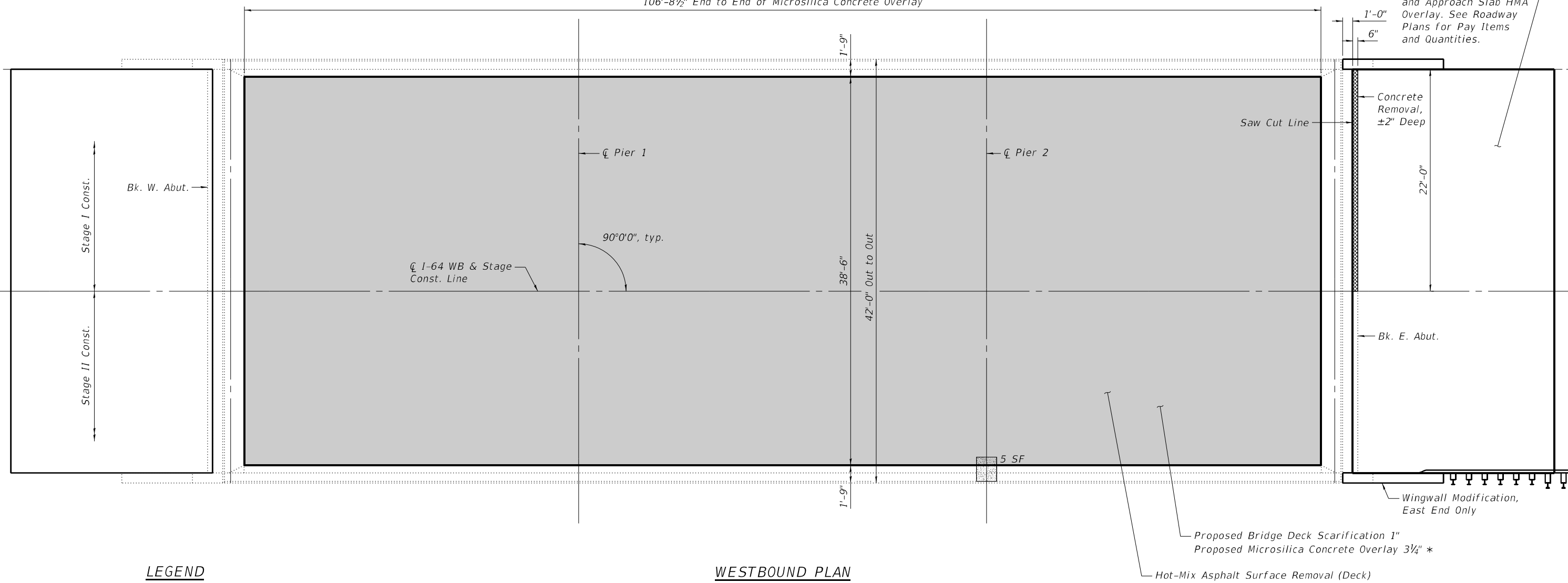
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64	(97-28-2)BDR-1	WHITE	33	27
CONTRACT NO. 78A07				
ILLINOIS FED. AID PROJECT				



**DRAIN TOP PLAN**  
(Overlay Transition at Drain)



106'-8 1/2" End to End of Microsilica Concrete Overlay



**WESTBOUND PLAN**

**LEGEND**

- Deck Slab Repair (Full Depth, Type II)
- Concrete Removal
- Scarification and Microsilica Concrete Overlay Limits

\* Prior to grinding

**WESTBOUND BILL OF MATERIAL**

ITEM	UNIT	TOTAL
Concrete Removal	Cu. Yd.	0.1
Protective Coat	Sq. Yd.	457
Hot-Mix Asphalt Surface Removal (Deck)	Sq. Yd.	457
Bridge Deck Scarification 1"	Sq. Yd.	457
Bridge Deck Microsilica Concrete Overlay 3 1/4"	Sq. Yd.	457
Deck Slab Repair (Full-Depth, Type II)	Sq. Yd.	1
Diamond Grinding (Bridge Section)	Sq. Yd.	410
Bridge Deck Grooving (Longitudinal)	Sq. Yd.	410

**Notes:**  
 Deck Slab Repair (Full-Depth, Type II) areas are estimated and will be field verified by the Engineer prior to patching. The Engineer shall show actual locations of deck repairs on as-built plans.  
 See Sheet 6 of 9 for cross sections.  
 For approach slab overlay details see Roadway Plans.  
 For Wingwall Modifications see Sheet 9 of 9.

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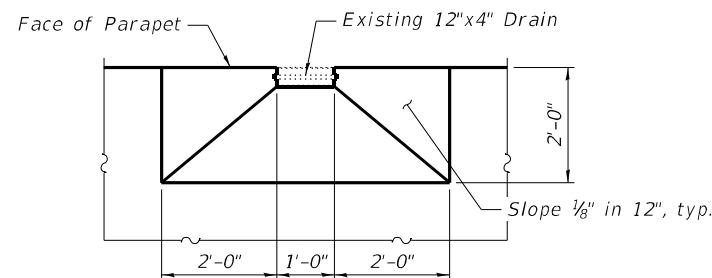
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**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

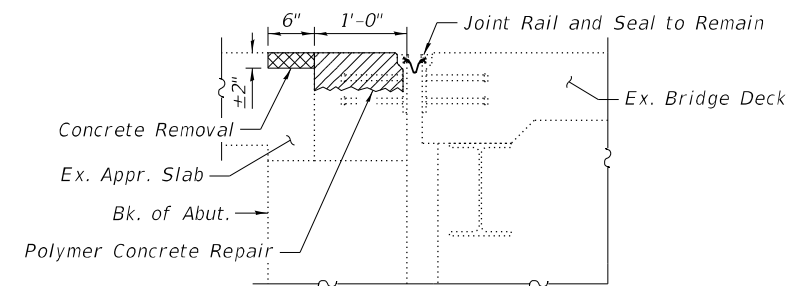
**WESTBOUND BRIDGE DECK OVERLAY PLAN**  
**STRUCTURE NO. 097-0051**

SHEET 4 OF 9 SHEETS

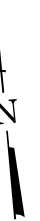
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CONTRACT NO. 78A07				
ILLINOIS FED. AID PROJECT				



**DRAIN TOP PLAN**  
(Overlay Transition at Drain)

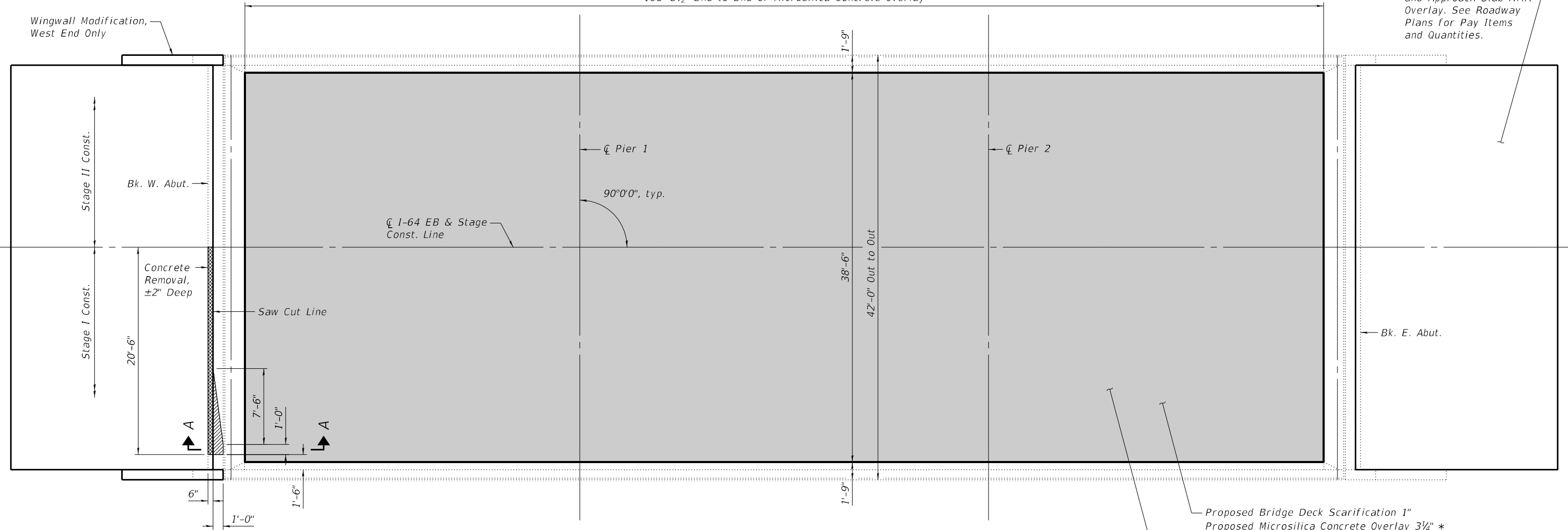


**SECTION A-A**



Approach Slab Existing HMA Overlay Removal and Approach Slab HMA Overlay. See Roadway Plans for Pay Items and Quantities.

106'-8 1/2" End to End of Microsilica Concrete Overlay



**EASTBOUND PLAN**

**LEGEND**

- Polymer Concrete Repair
- Concrete Removal
- Scarification and Microsilica Concrete Overlay Limits

\* Prior to grinding

**EASTBOUND BILL OF MATERIAL**

ITEM	UNIT	TOTAL
Concrete Removal	Cu. Yd.	0.2
Protective Coat	Sq. Yd.	457
Hot-Mix Asphalt Surface Removal (Deck)	Sq. Yd.	457
Bridge Deck Scarification 1"	Sq. Yd.	457
Bridge Deck Microsilica Concrete Overlay 3 1/4"	Sq. Yd.	457
Diamond Grinding (Bridge Section)	Sq. Yd.	410
Polymer Concrete	Cu. Ft.	3.6
Bridge Deck Grooving (Longitudinal)	Sq. Yd.	410

**Notes:**

See Sheet 6 of 9 for cross sections.  
 For approach slab overlay details see Roadway Plans.  
 For Wingwall Modifications see Sheet 9 of 9.  
 Polymer Concrete Repair areas are estimated and will be field verified by the Engineer prior to patching. The Engineer shall show actual locations of Polymer Concrete Repairs on as-built plans.

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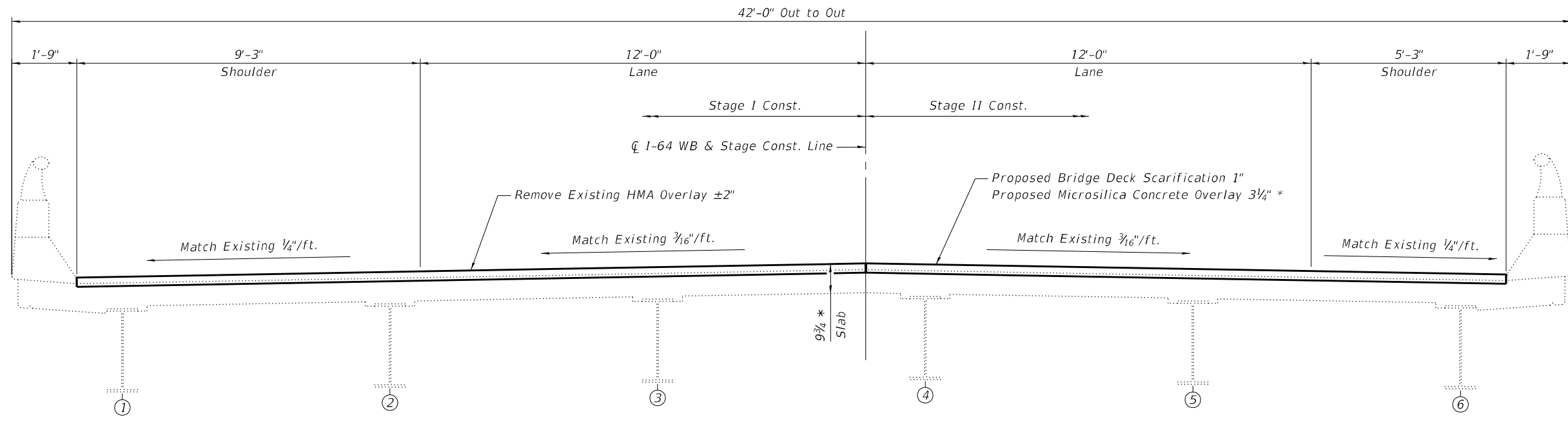
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**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

**EASTBOUND BRIDGE DECK OVERLAY PLAN**  
**STRUCTURE NO. 097-0052**

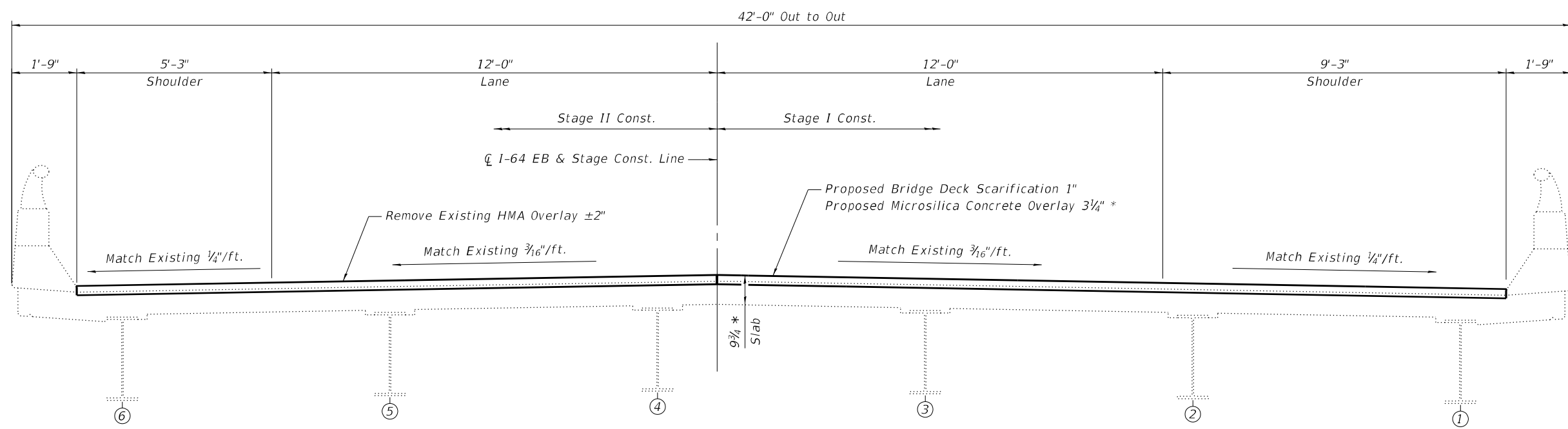
SHEET 5 OF 9 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
64	(97-28-2)BDR-1	WHITE	33	29
CONTRACT NO. 78A07				
ILLINOIS FED. AID PROJECT				



**WESTBOUND CROSS SECTION**  
(Looking East)

\* Prior to grinding



**EASTBOUND CROSS SECTION**  
(Looking East)

Notes:  
See Sheet 4 and 5 of 9 for overlay limits and Bill of Materials.

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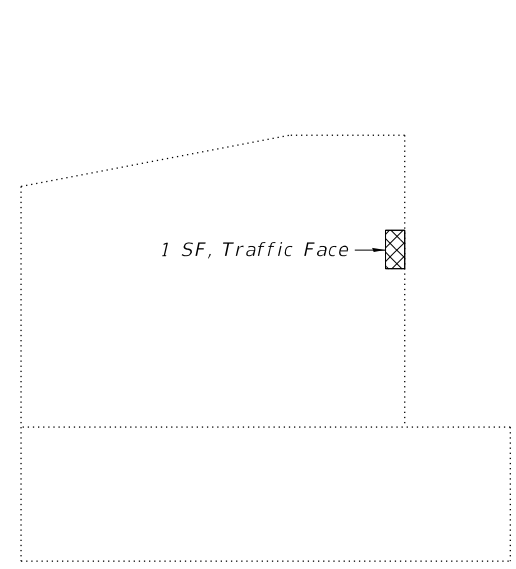
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**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

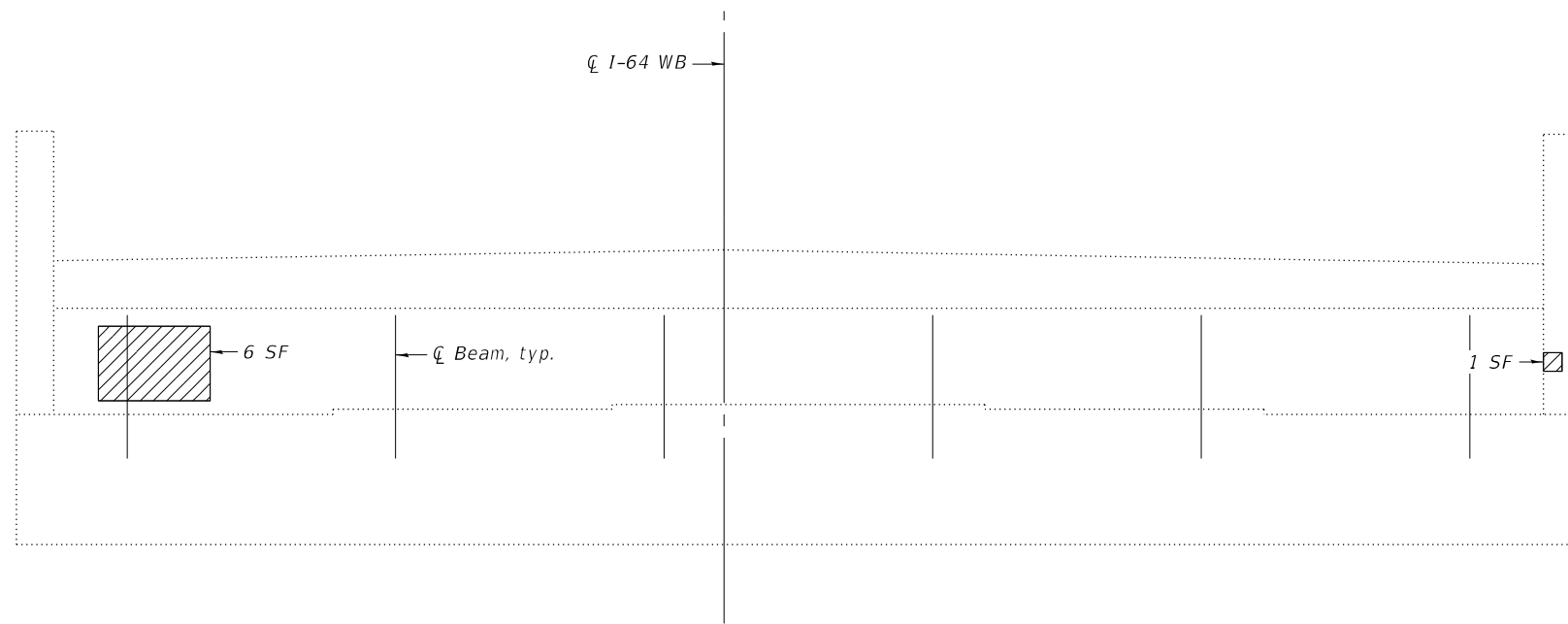
**BRIDGE DECK OVERLAY DETAILS**  
**STRUCTURES NO. 097-0051 & 097-0052**

SHEET 6 OF 9 SHEETS

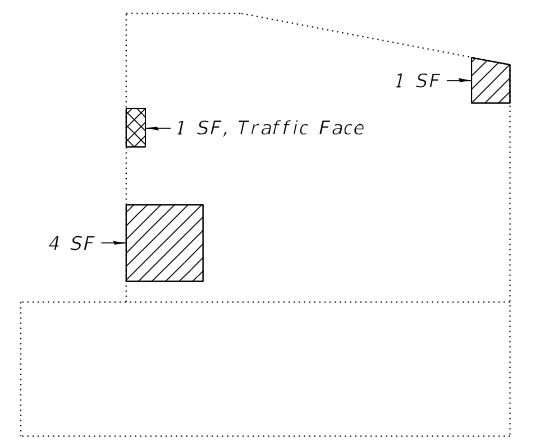
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ILLINOIS FED. AID PROJECT				



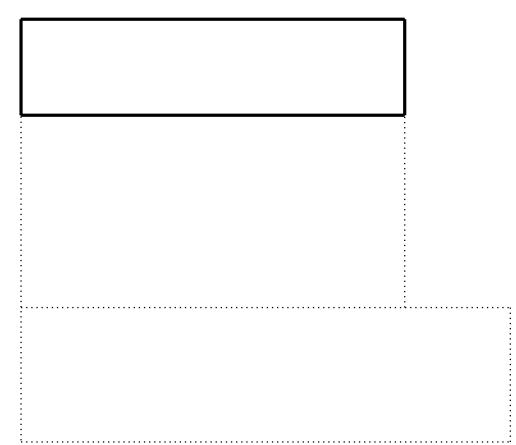
**WESTBOUND SOUTHWEST WINGWALL**  
(Looking North)



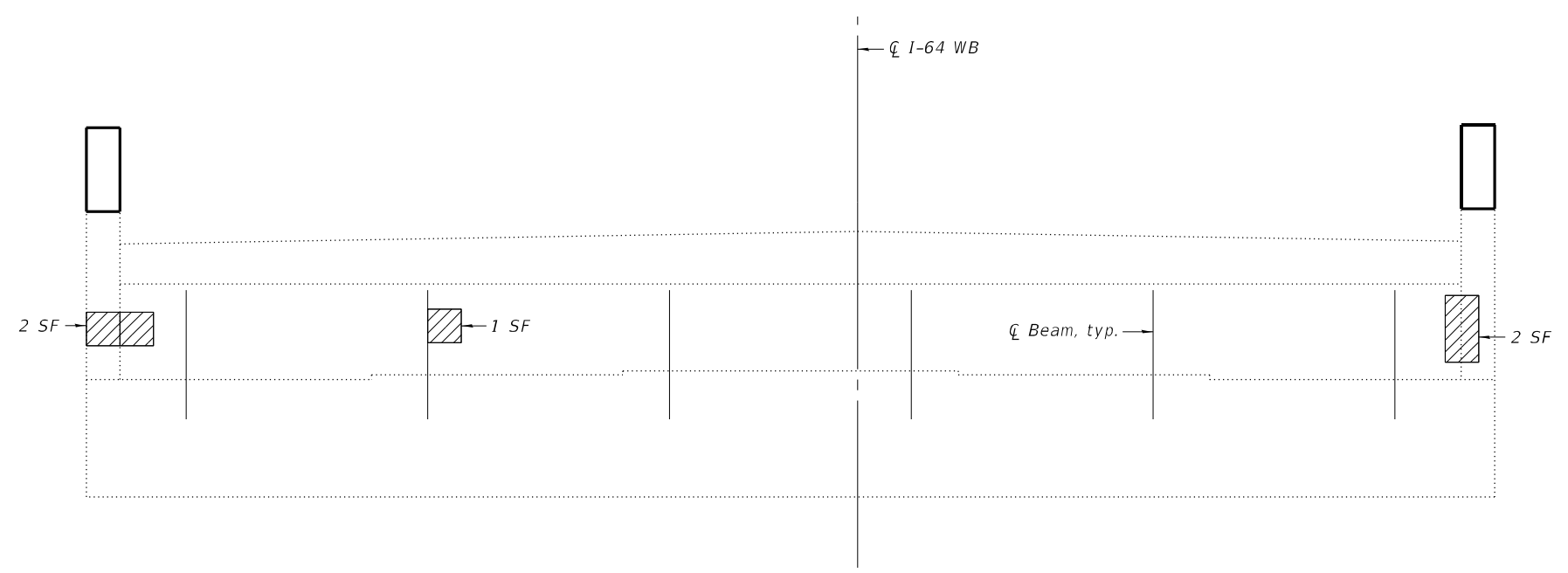
**WESTBOUND WEST ABUTMENT ELEVATION**  
(Looking West)



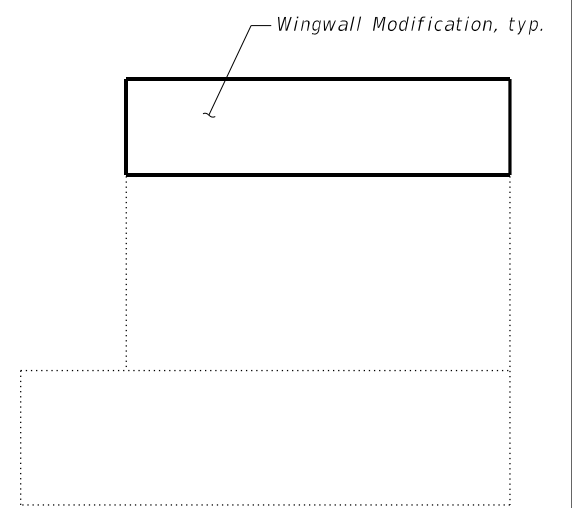
**WESTBOUND NORTHWEST WINGWALL**  
(Looking South)



**WESTBOUND NORTHEAST WINGWALL**  
(Looking South)



**WESTBOUND EAST ABUTMENT ELEVATION**  
(Looking East)



**WESTBOUND SOUTHEAST WINGWALL**  
(Looking North)

**LEGEND**

- Structural Repair of Concrete (Depth ≤ 5")
- Structural Repair of Concrete (Depth > 5")

*Notes:*  
Concrete repair areas are located on outside face of wingwalls unless noted otherwise.  
For Wingwall Modifications see Sheet 9 of 9.

**WESTBOUND BILL OF MATERIAL**

ITEM	UNIT	TOTAL
Structural Repair of Concrete (Depth Equal to or Less Than 5")	Sq. Ft.	17
Structural Repair of Concrete (Depth Greater Than 5")	Sq. Ft.	2

MODEL: Default  
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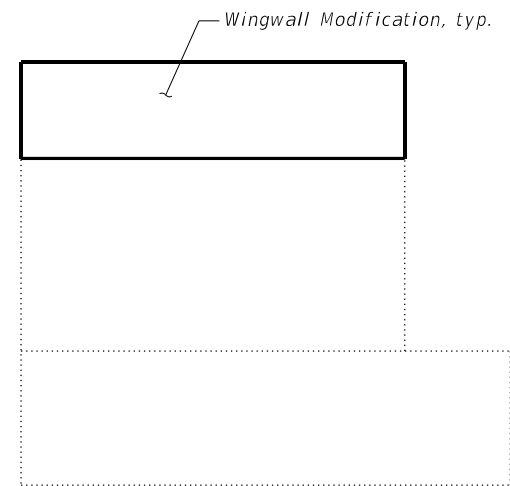
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**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**WESTBOUND ABUTMENT REPAIR DETAILS  
STRUCTURE NO. 097-0051**

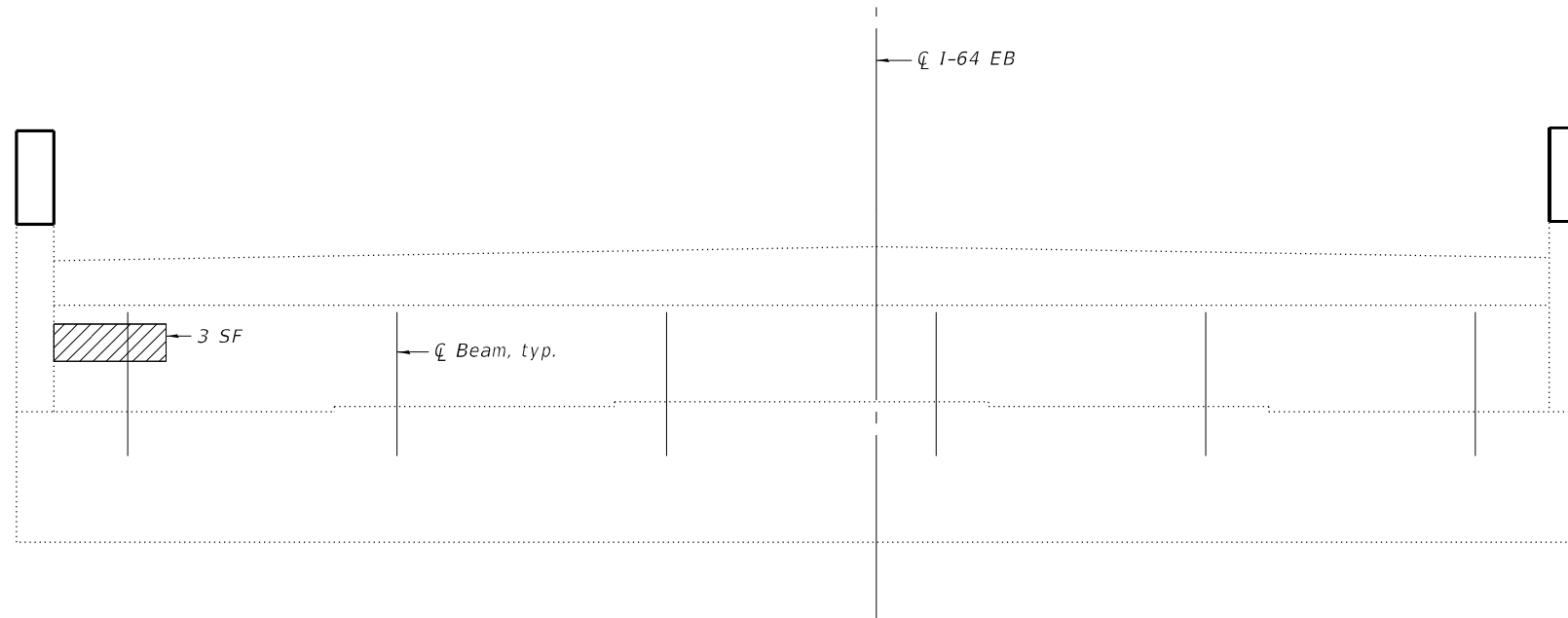
SHEET 7 OF 9 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
64	(97-2B-2)BDR-1	WHITE	33	31
CONTRACT NO. 78A07				
ILLINOIS FED. AID PROJECT				



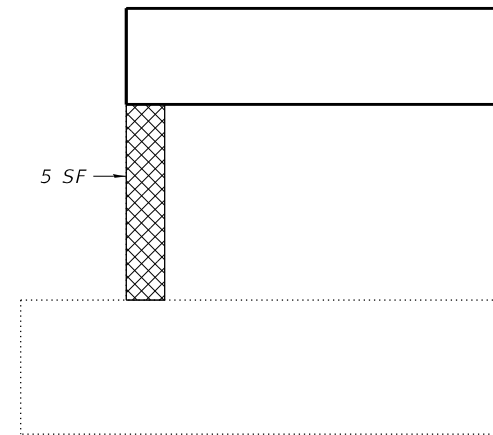
**EASTBOUND SOUTHWEST WINGWALL**

(Looking North)



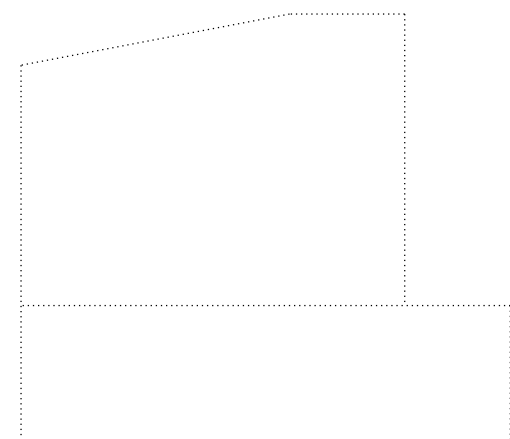
**EASTBOUND WEST ABUTMENT ELEVATION**

(Looking West)



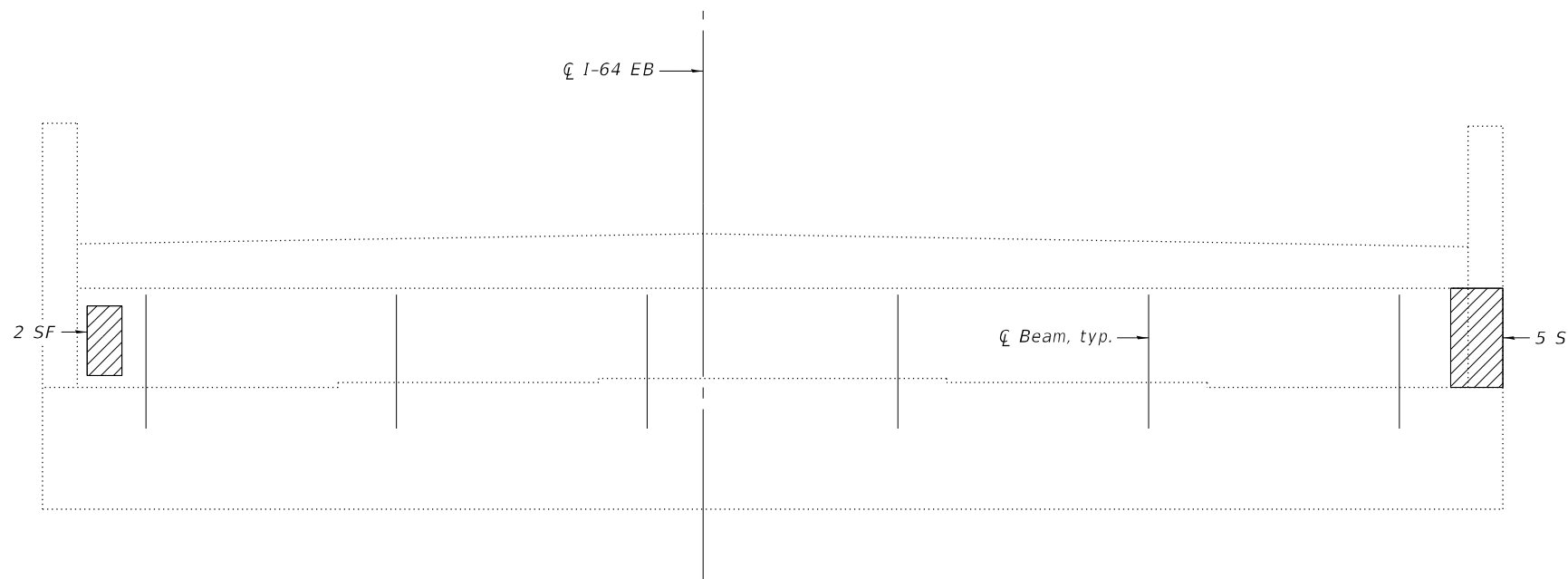
**EASTBOUND NORTHWEST WINGWALL**

(Looking South)



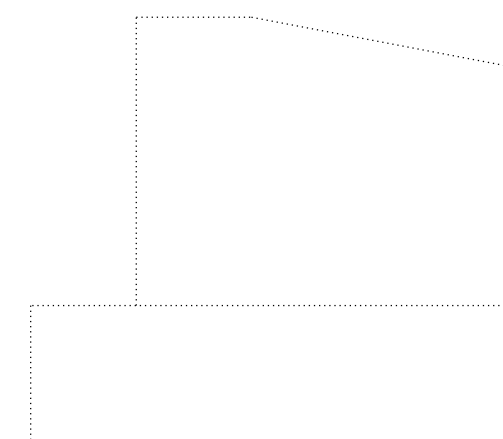
**EASTBOUND NORTHEAST WINGWALL**

(Looking South)



**EASTBOUND EAST ABUTMENT ELEVATION**

(Looking East)



**EASTBOUND SOUTHEAST WINGWALL**

(Looking North)

**LEGEND**

- Structural Repair of Concrete (Depth ≤ 5")
- Structural Repair of Concrete (Depth > 5")

Notes:  
 Concrete repair areas are located on outside face of wingwalls unless noted otherwise.  
 For Wingwall Modifications see Sheet 9 of 9.

**EASTBOUND BILL OF MATERIAL**

ITEM	UNIT	TOTAL
Structural Repair of Concrete (Depth Equal to or Less Than 5")	Sq. Ft.	10
Structural Repair of Concrete (Depth Greater Than 5")	Sq. Ft.	5

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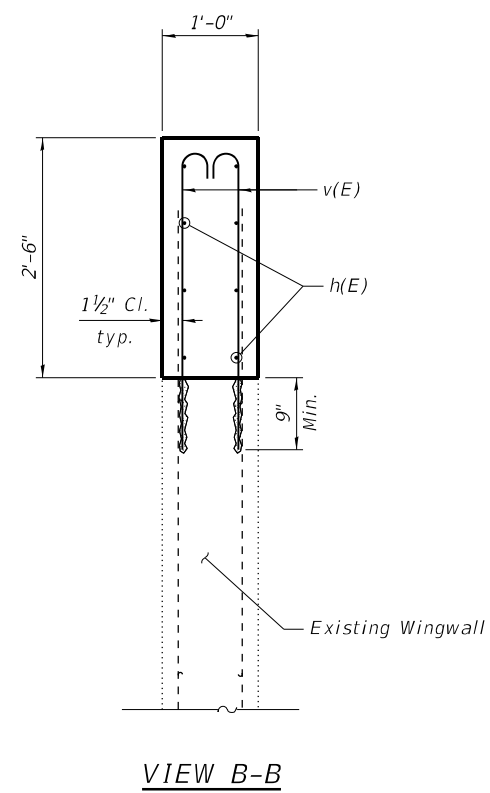
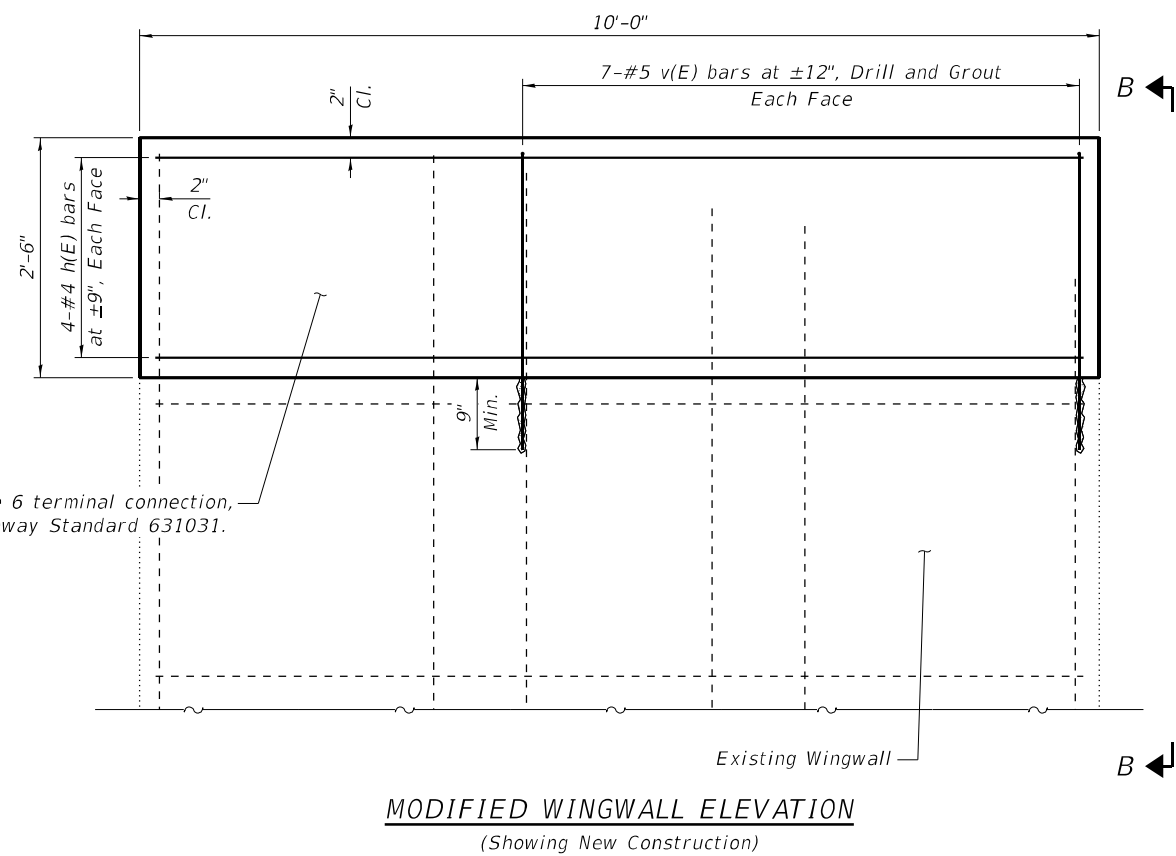
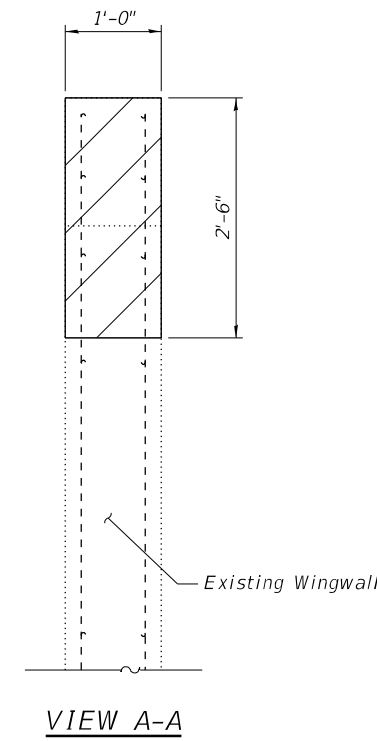
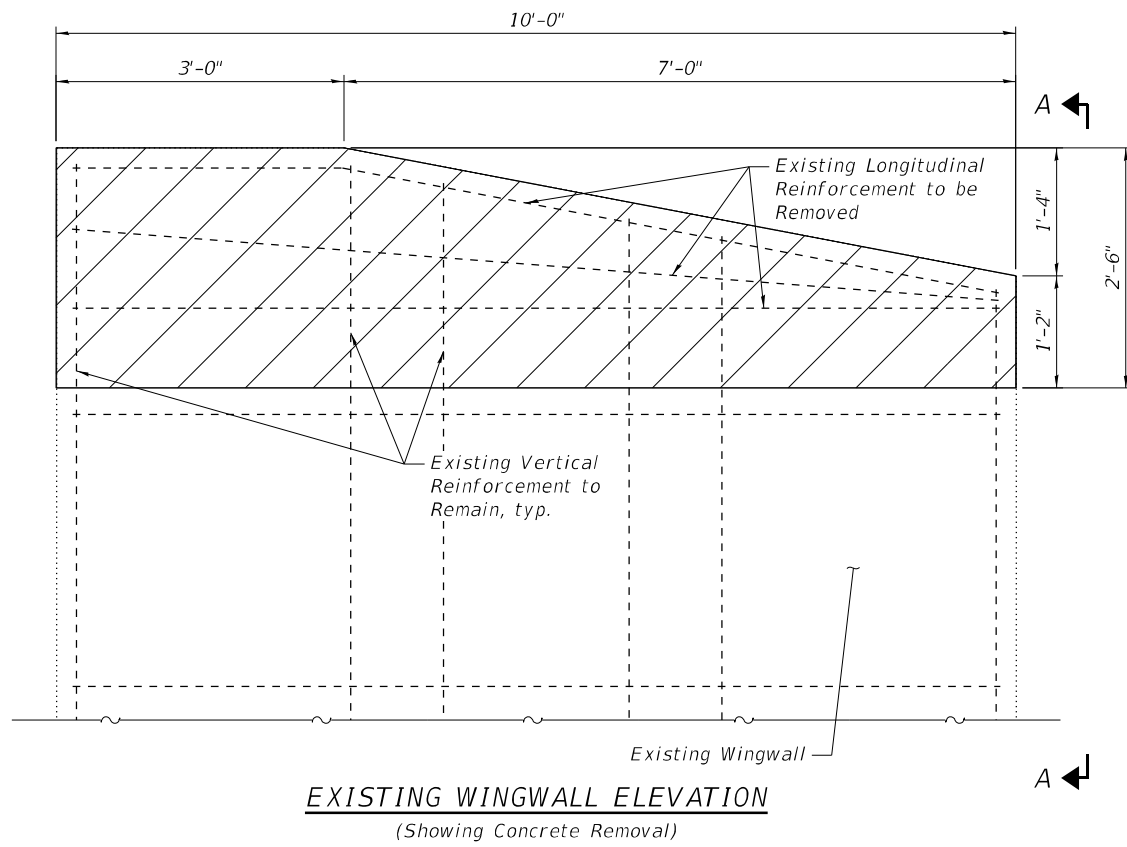
**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**EASTBOUND ABUTMENT REPAIR DETAILS  
 STRUCTURE NO.097-0052**

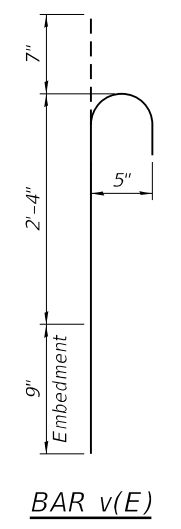
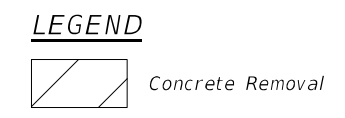
SHEET 8 OF 9 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
64	(97-2B-2)BDR-1	WHITE	33	32
CONTRACT NO. 78A07				
		ILLINOIS	FED. AID PROJECT	





**Notes:**  
 Existing vertical reinforcement bars extending into the removal area shall be cleaned, straightened and incorporated into the new construction. Any reinforcement bars that are damaged during concrete removal shall be replaced with an approved bar splicer or anchorage system. Cost included with Concrete Removal.  
 Drill and epoxy grout v(E) bars to a minimum depth of 9" in accordance with Article 584 of the standard specifications. Cost included with Reinforcement Bars, Epoxy Coated.  
 See Sheets 4 and 5 of 9 for location of wingwalls that shall be modified.



**FOUR WINGWALLS BILL OF MATERIAL**

BAR	NO.	SIZE	LENGTH	SHAPE
h(E)	32	#4	9'-6"	—
v(E)	56	#5	3'-8"	⌋
Concrete Removal			Cu. Yd.	3.1
Concrete Superstructure			Cu. Yd.	3.8
Protective Coat			Sq. Yd.	16
Reinforcement Bar, Epoxy Coated			Pound	420

MODEL: Default  
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PLOT DATE =	CHECKED - MDC	REVISED -

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**WINGWALL MODIFICATION DETAILS  
 STRUCTURES NO. 097-0051 & 097-0052**

SHEET 9 OF 9 SHEETS

F.A.I. RTE. 64	SECTION (97-28-2)BDR-1	COUNTY WHITE	TOTAL SHEETS 33	SHEET NO. 33
CONTRACT NO. 78A07				
ILLINOIS FED. AID PROJECT				