



BACON | FARMER | WORKMAN  
ENGINEERING & TESTING, INC.

403 NORTH COURT STREET MADISON IL 62206  
421 S. GRAND AVENUE WEST SPRINGFIELD IL 62704  
907 ARROW ROAD, SUITE 2 CHAMPAIGN IL 61821

WWW.BFWENGINEERS.COM

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FOR INDEX OF SHEETS & LIST OF STANDARDS, SEE SHEET NO. 2

FOR SUMMARY OF QUANTITIES, SEE SHEET NO. 3-7

**TRAFFIC DATA**

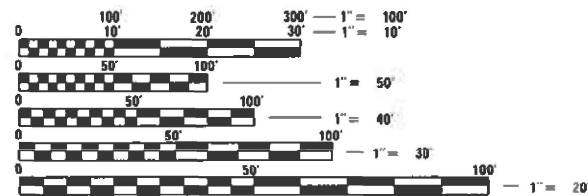
**I-57 OVER SCATTERING FORK RIVER**

2021 ADT = 22,400  
PV% = 65.5%  
SU% = 2.8%  
MU% = 31.7%



**FUNCTIONAL CLASSIFICATION**

I-57 - INTERSTATE



FULL SIZE PLANS HAVE BEEN PREPARED USING STANDARD ENGINEERING SCALES. REDUCED SIZED PLANS WILL NOT CONFORM TO STANDARD SCALES. IN MAKING MEASUREMENTS ON REDUCED PLANS, THE ABOVE SCALES MAY BE USED.

J.U.L.I.E.  
JOINT UTILITY LOCATION INFORMATION FOR EXCAVATION  
1-800-892-0123  
OR 811  
TOWNSHIP(S): TUSCOLA

PROJECT ENGINEER: RYAN CARROLL, PE.  
SENIOR SQUAD LEADER: CLARE DIETZ, PE.  
PHONE NUMBER: (217) 465-4181  
CONTRACT NO. 70H01

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

12-13-2024 SPECIAL LETTING ITEM 007

**PROPOSED  
HIGHWAY PLANS**

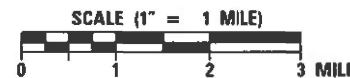
**FAI ROUTE 57 (I-57)  
SECTION (21-27B-2)BR  
PROJECT NO. NHPP-575D(356)  
BRIDGE DECK OVERLAY  
DOUGLAS COUNTY**

C-95-024-24

AT SCATTERING FORK RIVER 1.5 MILES  
SOUTH OF US 36



LOCATION MAP



PROJECT LENGTH = 113.15 FT. = 0.021 MILES  
TOTAL PROJECT LENGTH = 113.15 FT. = 0.021 MILES

END PROJECT  
STA. 464 + 82.93

IMPROVEMENTS INCLUDE  
BRIDGE DECK OVERLAY TO  
SN 021-0007 NB; AND  
SN 021-0008 SB; STA. 464 + 00.00;  
I-57 OVER SCATTERING FORK

BEGIN PROJECT  
STA. 463 + 18.93

FAI RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	(21-27B-2)BR	DOUGLAS	49	1

P-95-016-24



LOCATION OF SECTION INDICATED THUS: - [shaded box] -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

SUBMITTED 8/15 2024  
Kenneth A. Barnett, Sr.  
REGIONAL ENGINEER

October 4, 2024  
Scott A. Elk  
ENGINEER OF DESIGN AND ENVIRONMENT

October 4, 2024  
James J. Gu  
DIRECTOR OF HIGHWAYS PROJECT IMPLEMENTATION

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OF THE STATE OF ILLINOIS

**INDEX OF SHEETS**

SHEET #	DESCRIPTION
1	COVER SHEET
2	INDEX OF SHEETS, HIGHWAY STANDARDS AND GENERAL NOTES
3-7	SUMMARY OF QUANTITIES
8-9	TYPICAL SECTIONS
10-11	SCHEDULE OF QUANTITIES
12	ALIGNMENT, TIES & BENCHMARKS
13-14	PLAN SHEETS
15-20	STAGE CONSTRUCTION AND TRAFFIC CONTROL DETAILS
21	PAVEMENT MARKING PLANS
22-43	STRUCTURAL DETAILS (SN 021-0007, SN 021-0008)
44	THICKNESS TRANSITION ON APPROACH PAVEMENT DETAIL
45	WIDTH RESTRICTION SIGNING PLAN
46	D5 DETAIL NO. 7800BBBB-6IN, PAVEMENT MARKING
47	D5 DETAIL NO. X032AAAA, REAL-TIME TRAFFIC CONTROL SYSTEM
48	D5 DETAIL TEMPORARY RUMBLE STRIPS (SPECIAL)
49	D5 DETAIL NO. X7200201, WIDTH RESTRICTION SIGNING

**LIST OF HIGHWAY STANDARDS**

STANDARD NO.	DESCRIPTION
000001-08	STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS
001001-02	AREAS OF REINFORCEMENT BARS
001006	DECIMAL OF AN INCH AND OF A FOOT
515001-04	NAME PLATES FOR BRIDGES
630001-13	STEEL PLATE BEAM GUARDRAIL
630301-09	SHOULDER WIDENING FOR TYPE 1 (SPECIAL) GUARDRAIL TERMINALS
631066	TRAFFIC BARRIER TERMINAL, TYPE 14
701101-05	OFF-RD OPERATIONS, MULTILANE, 15' TO 24" FROM PAVEMENT EDGE
701106-02	OFF-RD OPERATIONS, MULTILANE, MORE THAN 15' AWAY
701400-12	APPROACH TO LANE CLOSURE, FREEWAY/EXPRESSWAY
701401-13	LANE CLOSURE, FREEWAY/ EXPRESSWAY
701402-12	LANE CLOSURE, FREEWAY/ EXPRESSWAY, WITH BARRIER
701426-09	LANE CLOSURE, MULTILANE, INTERMITTENT OR MOVING OPER., FOR SPEEDS ≥ 45 MPH
701901-09	TRAFFIC CONTROL DEVICES
704001-08	TEMPORARY CONCRETE BARRIER
725001-01	OBJECT AND TERMINAL MARKERS
780001-05	TYPICAL PAVEMENT MARKINGS
781001-04	TYPICAL APPLICATIONS RAISED REFLECTIVE PAVEMENT MARKERS
782006-01	GUARDRAIL AND BARRIER WALL REFLECTOR MOUNTING DETAILS

**GENERAL NOTES**

G.N.-100A  
ELECTRONIC FILES AND/OR ELECTRONIC SURVEY INFORMATION INCLUDING CADD FILES WILL NOT BE AVAILABLE TO THE CONTRACTOR.

G.N.-100B  
MICROSTATION AND GEOPAK FILES OF THIS PROJECT WILL BE MADE AVAILABLE TO THE CONTRACTOR AFTER CONTRACT AWARD. IF THERE IS A CONFLICT BETWEEN THE ELECTRONIC FILES AND THE PRINTED CONTRACT PLANS AND DOCUMENTS, THE PRINTED CONTRACT PLANS AND DOCUMENTS SHALL TAKE PRECEDENCE OVER THE ELECTRONIC FILES. THE CONTRACTOR SHALL ACCEPT ALL RISK ASSOCIATED WITH USING THE ELECTRONIC FILES AND SHALL HOLD THE DEPARTMENT HARMLESS FOR ANY ERRORS OR OMISSIONS IN THE ELECTRONIC FILES AND THE DATA CONTAINED THEREIN. ERRORS OR DELAYS RESULTING FROM THE USE OF THE ELECTRONIC FILES BY THE CONTRACTOR SHALL NOT RESULT IN AN EXTENSION OF TIME FOR ANY INTERIM OR FINAL COMPLETION DATE OR SHALL NOT BE CONSIDERED CAUSE FOR ADDITIONAL COMPENSATION. THE CONTRACTOR SHALL NOT USE, SHARE, OR DISTRIBUTE THESE ELECTRONIC FILES EXCEPT FOR THE PURPOSE OF CONSTRUCTING THIS CONTRACT. ANY CLAIMS BY THIRD PARTIES DUE TO USE OR ERRORS SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR. THE CONTRACTOR SHALL INCLUDE THIS DISCLAIMER WITH THE TRANSFER OF THESE ELECTRONIC FILES TO ANY OTHER PARTIES AND SHALL INCLUDE APPROPRIATE LANGUAGE BINDING THEM TO SIMILAR RESPONSIBILITIES.

G.N.-105.09A  
ALL ELEVATIONS SHOWN IN THE PLANS ARE BASED ON NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD 88).

**COMMITMENTS:**

NO COMMITMENTS

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<b>BACON   FARMER   WORKMAN</b> ENGINEERING & TESTING, INC.	USER NAME = sskinner PLOT SCALE = 100,0000' / in. PLOT DATE = 10/4/2024	DESIGNED - DRAWN - CHECKED - DATE -	REVISED - REVISED - REVISED - REVISED -	<b>STATE OF ILLINOIS</b> <b>DEPARTMENT OF TRANSPORTATION</b>	<b>INDEX OF SHEETS, HIGHWAY STANDARDS</b> <b>AND GENERAL NOTES</b>	F.A.I. RTE. 57 SECTION (21-27B-2)BR COUNTY DOUGLAS TOTAL SHEETS 49 SHEET NO. 2 CONTRACT NO. 70H01	ILLINOIS FED. AID PROJECT
	SCALE: SHEET 1 OF 1 SHEETS STA. TO STA.						

SUMMARY OF QUANTITIES				FAI ROUTE 57 (I-57)
				INTERSTATE
				DOUGLAS COUNTY
CODE			TOTAL	90% FEDERAL 10% STATE
NO.	ITEM	UNIT	QUANTITY	SN 021-0007 & SN 021-0008 0059
20400800	FURNISHED EXCAVATION	CU YD	75	75
25000210	SEEDING, CLASS 2A	ACRE	0.25	0.25
25000400	NITROGEN FERTILIZER NUTRIENT	POUND	23	23
25000500	PHOSPHORUS FERTILIZER NUTRIENT	POUND	23	23
25000600	POTASSIUM FERTILIZER NUTRIENT	POUND	23	23
25100630	EROSION CONTROL BLANKET	SQ YD	968	968
28000250	TEMPORARY EROSION CONTROL SEEDING	POUND	40	40
44004250	PAVED SHOULDER REMOVAL	SQ YD	14	14
48101498	AGGREGATE SHOULDERS, TYPE B 4"	SQ YD	165	165
50102400	CONCRETE REMOVAL	CU YD	48.2	48.2
50300100	FLOOR DRAINS	EACH	7	7
50300255	CONCRETE SUPERSTRUCTURE	CU YD	59.4	59.4
50300300	PROTECTIVE COAT	SQ YD	1517	1517

\* DENOTES SPECIALTY ITEM

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PLOT DATE = 8/13/2024	CHECKED -	REVISED -
	DATE -	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

I-57  
SUMMARY OF QUANTITIES

SCALE: N.T.S. SHEET 1 OF 5 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	(21-27B-2)BR	DOUGLAS	49	3
CONTRACT NO. 70H01			ILLINOIS FED. AID PROJECT	

SUMMARY OF QUANTITIES				FAI ROUTE 57 (I-57)
				INTERSTATE
				DOUGLAS COUNTY
CODE			TOTAL	90% FEDERAL 10% STATE
NO.	ITEM	UNIT	QUANTITY	SN 021-0007 & SN 021-0008 0059
50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	2720	2720
50800515	BAR SPLICERS	EACH	24	24
50900207	STEEL RAILING, TYPE CO-10	FOOT	436	436
60605000	COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.24	FOOT	60	60
* 63000001	STEEL PLATE BEAM GUARDRAIL, TYPE A, 6 FOOT POSTS	FOOT	800	800
* 63100119	TRAFFIC BARRIER TERMINAL, TYPE 14	EACH	4	4
* 63100167	TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT	EACH	4	4
63200310	GUARDRAIL REMOVAL	FOOT	1275	1275
64200116	SHOULDER RUMBLE STRIPS, 16 INCH	FOOT	2167	2167
67000500	ENGINEER'S FILED OFFICE, TYPE B	CAL MO	12	12
67100100	MOBILIZATION	L SUM	1	1
70100207	TRAFFIC CONTROL AND PROTECTION, STANDARD 701402	EACH	2	2
70100800	TRAFFIC CONTROL AND PROTECTION, STANDARD 701401	L SUM	1	1
* DENOTES SPECIALTY ITEM				

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**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

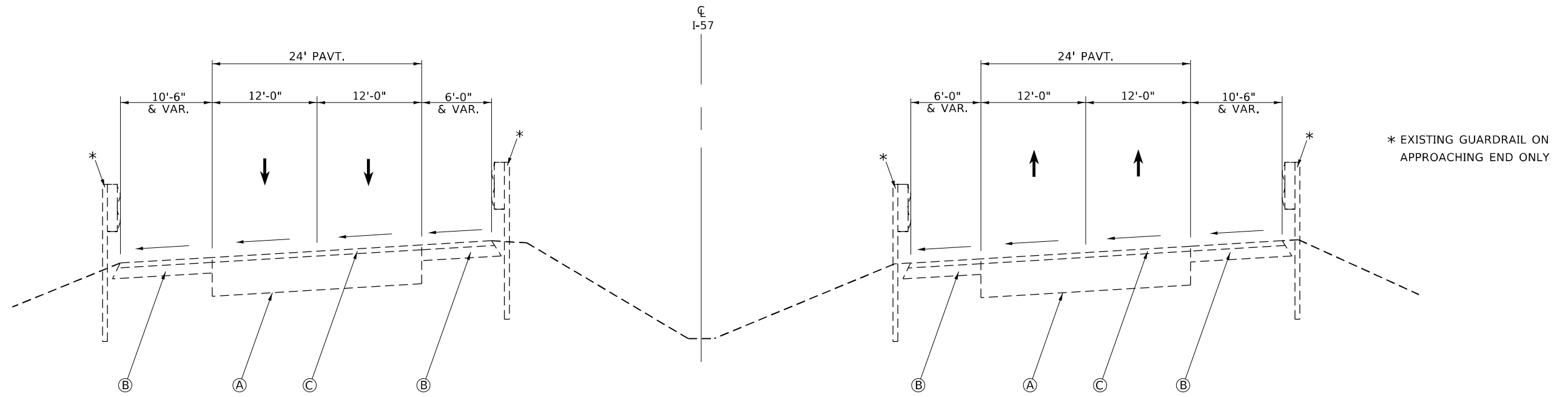
<b>I-57 SUMMARY OF QUANTITIES</b>	
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F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	(21-27B-2)BR	DOUGLAS	49	4
CONTRACT NO. 70H01			ILLINOIS FED. AID PROJECT	









EXISTING TYPICAL SECTION  
APPROACH PAVEMENT

**SB LANES**

STA. 463+23.08 TO STA. 463+70.18  
\* STA. 464+81.44 TO STA. 465+29.37

**NB LANES**

\* STA. 462+75.02 TO STA. 463+20.90  
STA. 464+28.72 TO STA. 464+75.29

**EXISTING LEGEND**

- (A) APPROACH PAVEMENT, THICKNESS VARIES 12" TO 16½"
- (B) STABILIZED SHOULDERS W/ HMA OVERLAY
- (C) HMA OVERLAY, THICKNESS VARIES 2" TO 3 ½"

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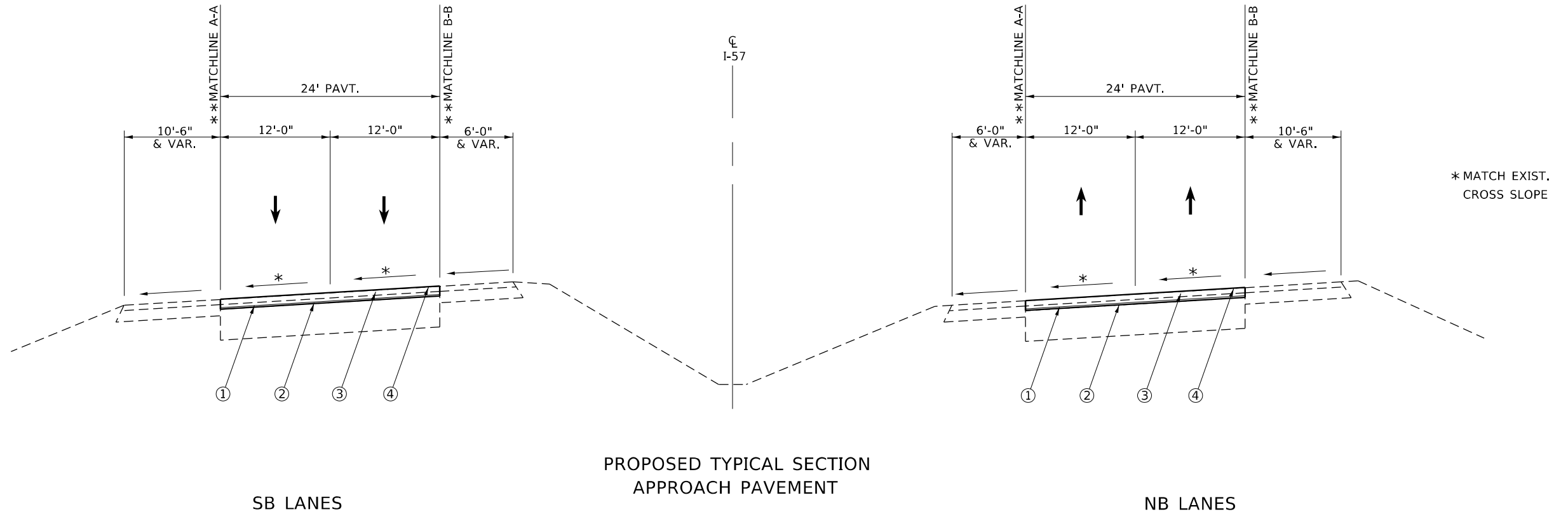
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**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

<b>I-57 EXISTING TYPICAL SECTION</b>	
SCALE: N.T.S.	SHEET 1 OF 1 SHEETS
STA.	TO STA.

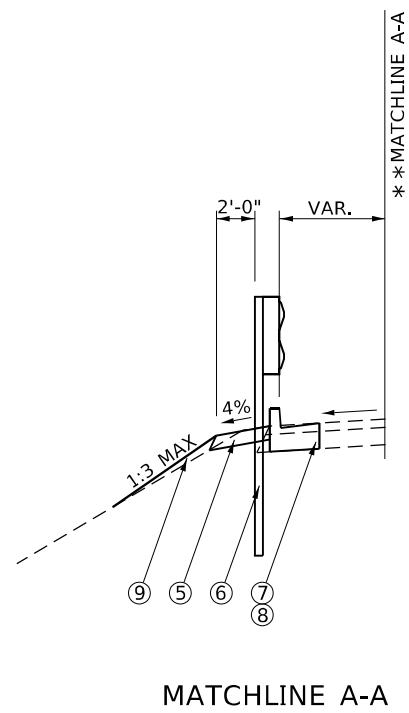
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57	(21-27B-2)BR	DOUGLAS	49	8
CONTRACT NO. 70H01				
ILLINOIS FED. AID PROJECT				



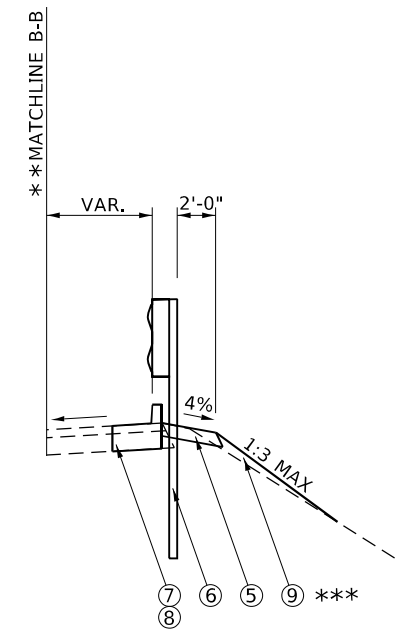


SB LANES  
 STA. 463+23.08 TO STA. 463+70.18  
 \*\* STA. 464+81.44 TO STA. 465+29.37

NB LANES  
 \*\* STA. 462+75.02 TO STA. 463+20.90  
 STA. 464+28.72 TO STA. 464+75.29



MATCHLINE A-A



MATCHLINE B-B

\*\*\*REQUIRED BEHIND TBT,  
 T-14 & TBT, T-1 (SPL)  
 TANG PER STDS

PROPOSED TYPICAL SECTION  
 APPROACH PAVEMENT

PROPOSED LEGEND

- ① HMA SURFACE REMOVAL, VARIES 2" TO 3½"
- ② BRIDGE DECK SCARIFICATION, ¾"
- ③ BRIDGE DECK LATEX CONCRETE OVERLAY, VARIES 3" TO 4½"
- ④ DIAMOND GRINDING (BRIDGE SECTION)
- ⑤ AGGREGATE SHOULDERS, TYPE B, 4"
- ⑥ TRAFFIC BARRIER TERMINAL, TYPE 14
- ⑦ COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.24 (MATCH BRIDGE CURB, EXTENDS 15' FROM BRIDGE)
- ⑧ PAVED SHOULDER REMOVAL
- ⑨ FURNISHED EXCAVATION \*\*\*

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STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

<b>I-57</b>			
<b>PROPOSED TYPICAL SECTION</b>			
SCALE: N.T.S.	SHEET 1	OF 1 SHEETS	TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	(21-27B-2)BR	DOUGLAS	49	9
CONTRACT NO. 70H01				
ILLINOIS FED. AID PROJECT				



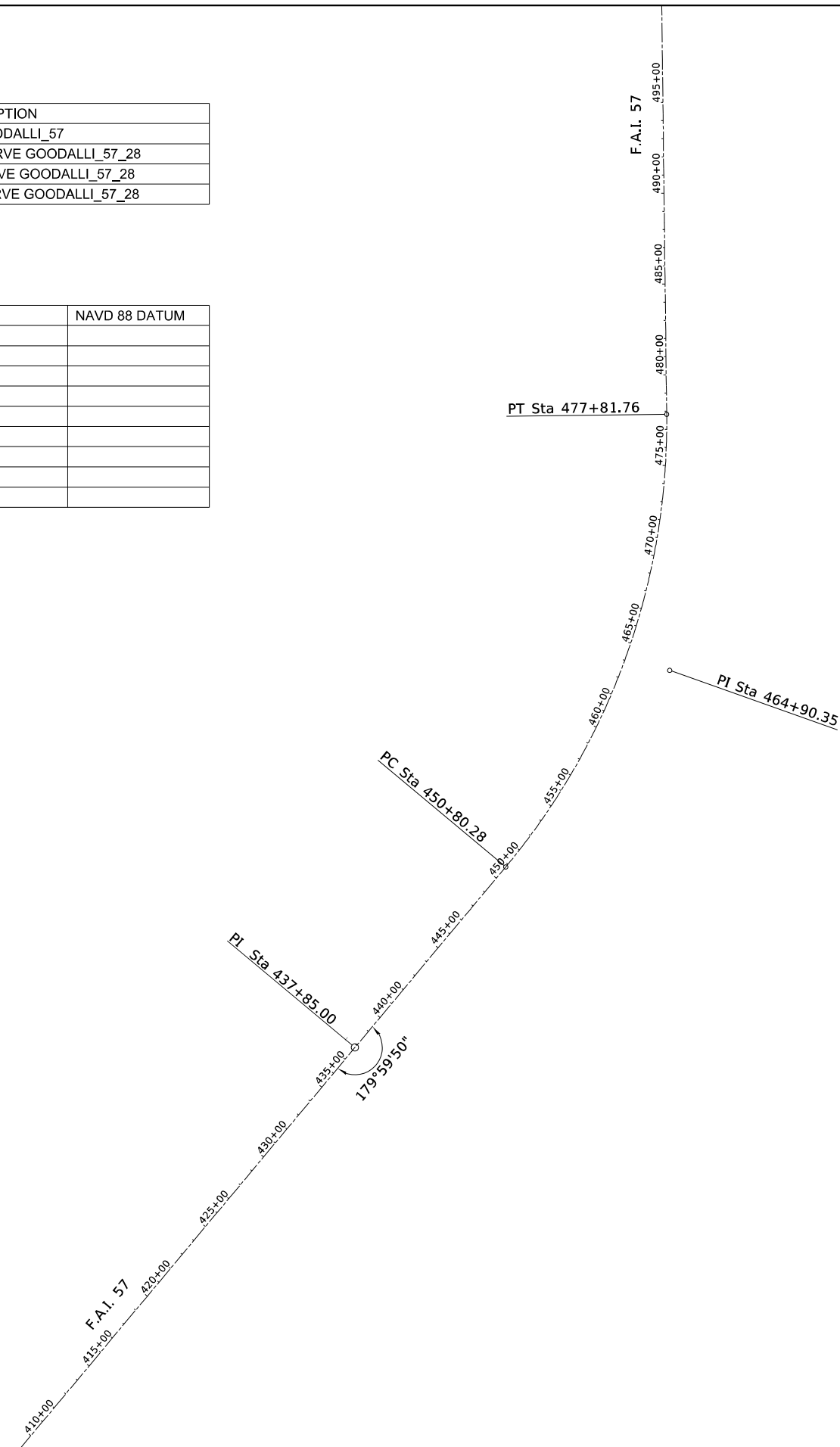


CENTERLINE POINTS

LOCATION	NORTHING	EASTING	STATION	DESCRIPTION
I-57	1129342.73	1001923.49	437+85.00	P.I. GOODALLI_57
	1130337.09	1002753.53	450+80.28	P.C. CURVE GOODALLI_57_28
	1131419.58	1003657.14	464+90.35	P.I. CURVE GOODALLI_57_28
	1132829.55	1003640.21	477+81.76	P.T. CURVE GOODALLI_57_28

LIST OF BENCHMARKS

BENCHMARK #	COMMENTS/DESCRIPTIONS	NAVD 88 DATUM



EXIST. CURVE GOODALLI\_57\_28  
 PI STA. = 464+90.35  
 $\Delta = 40^\circ 32' 30''$  (LT)  
 $D = 1^\circ 30' 03''$   
 $R = 3,817.88'$   
 $T = 1,410.07'$   
 $L = 2,701.48'$   
 $E = 252.07'$   
 $e = 2.0\%$   
 $T.R. = N/A$   
 $S.E. RUN = N/A$   
 $P.C. STA. = 450+80.28$   
 $P.T. STA. = 477+81.76$

**COORDINATE SYSTEM : NAD83 /2011 ADJUSTMENT  
 WITH GEOID 18, NAVD 88 DATUM VERTICAL. ILLINOIS  
 STATE PLANE, EAST ZONE GRID COORDINATES**

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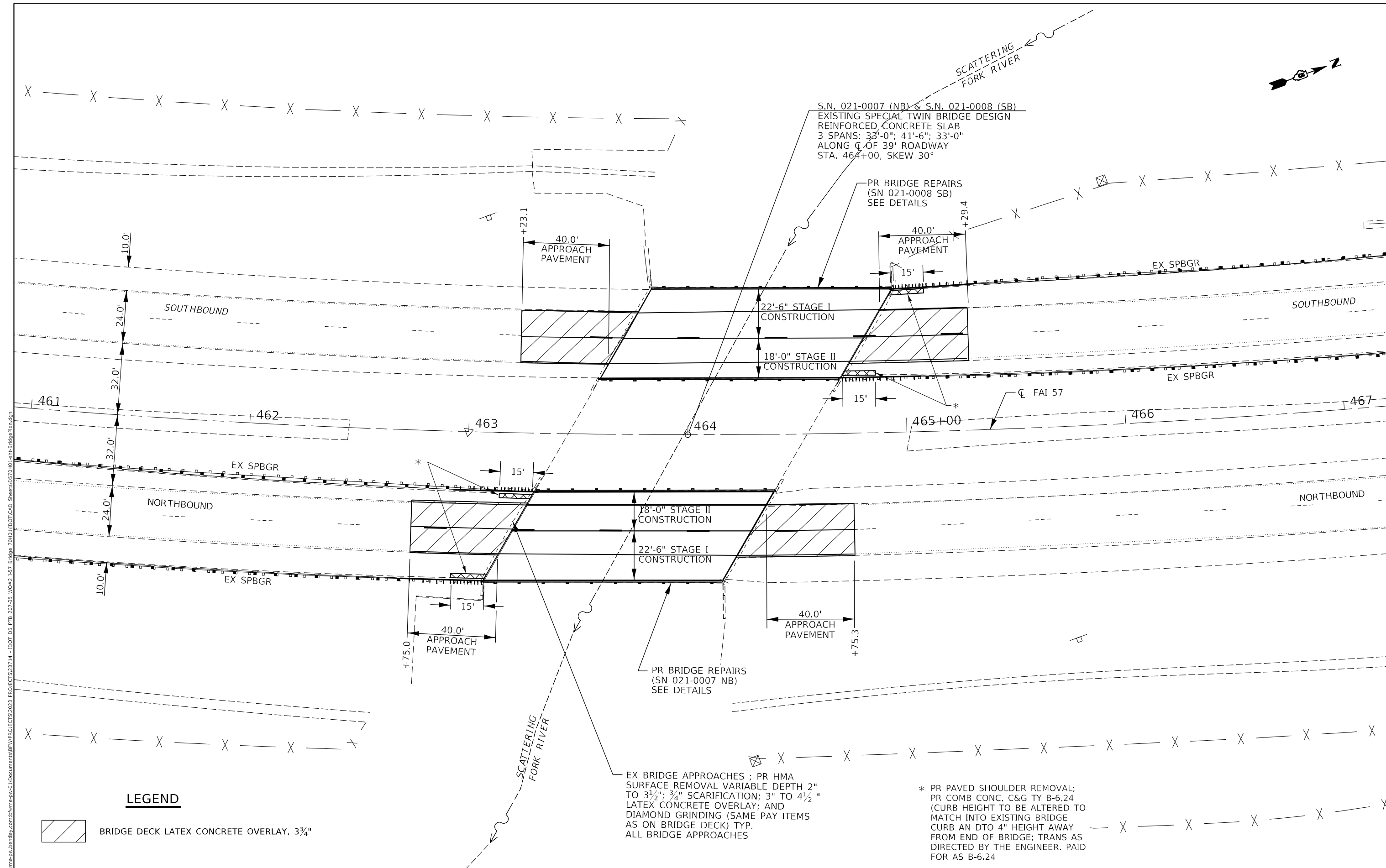
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	DATE -	REVISED -

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

<b>I-57</b>		
<b>ALIGNMENT, TIES &amp; BENCHMARKS</b>		
SCALE: N.T.S	SHEET 1 OF 1 SHEETS	STA. 415+00 TO STA. 495+00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	(21-27B-2)BR	DOUGLAS	49	12
ILLINOIS FED. AID PROJECT			CONTRACT NO. 70H01	





**LEGEND**

 BRIDGE DECK LATEX CONCRETE OVERLAY, 3/4"

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**I-57  
BRIDGE PLAN**

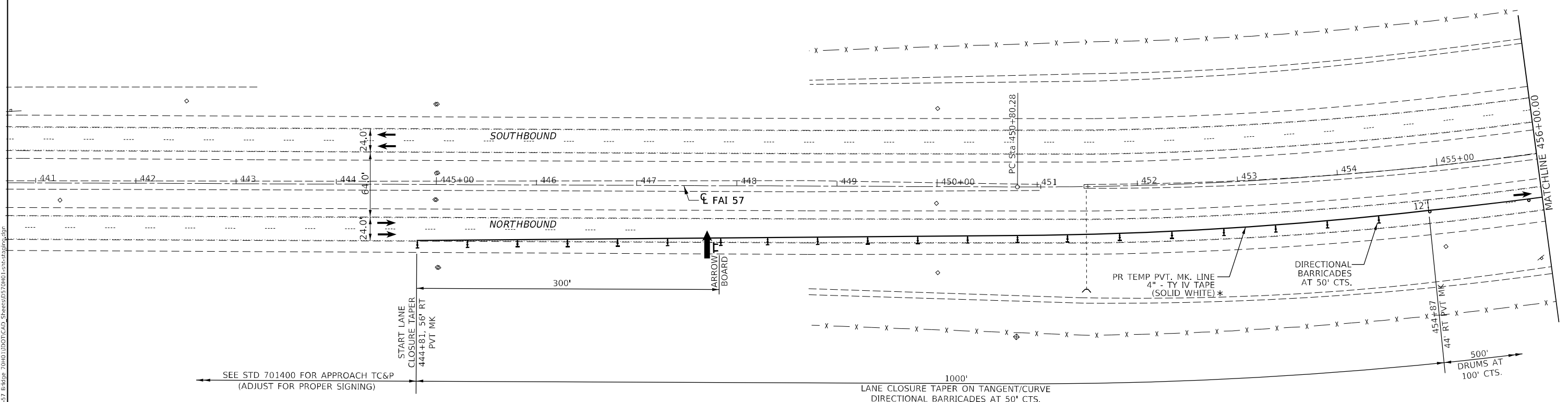
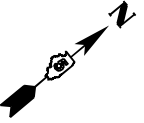
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	DATE -	REVISED -

SCALE: 1"=20' SHEET 1 OF 1 SHEETS STA. 461+00 TO STA. 467+00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	(21-27B-2)BR	DOUGLAS	49	14
CONTRACT NO. 70H01				
ILLINOIS FED. AID PROJECT				

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 70H01\DOT\CAD\_Sheets\DS70H01-Lch-Bridge\Bsp.dwg

NOTE: THE INTENT OF THESE TRAFFIC CONTROL DETAILS IS TO SUPPLEMENT THE TRAFFIC CONTROL HIGHWAY STANDARDS INCLUDED IN THE PLANS TO SHOW EXACT LAYOUT OF ITEMS SUCH AS TEMPORARY CONCRETE BARRIER, TEMPORARY IMPACT ATTENUATORS, TEMPORARY PAVEMENT MARKING, ETC... THE NOTES, ADVANCE WARNING SIGNING, ETC... THAT ARE INCLUDED ON THE HIGHWAY STANDARDS ARE NOT ALL DUPLICATED ON THESE SHEETS, BUT SHALL BE CONSIDERED PART OF THIS CONTRACT.



**SYMBOLS**

- SIGN
- DIRECTION INDICATOR BARRICADE WITH LIGHT
- TYPE II BARRICADE OR DRUM WITH LIGHT
- TEMPORARY CONCRETE BARRICADE
- MONODIRECTIONAL BARRIER WALL REFLECTOR
- TEMPORARY IMPACT ATTENUATOR
- ARROW BOARD
- WORK AREA

\* COVER EXISTING CONFLICTING PVT. MKS. WITH BLACKOUT TAPE

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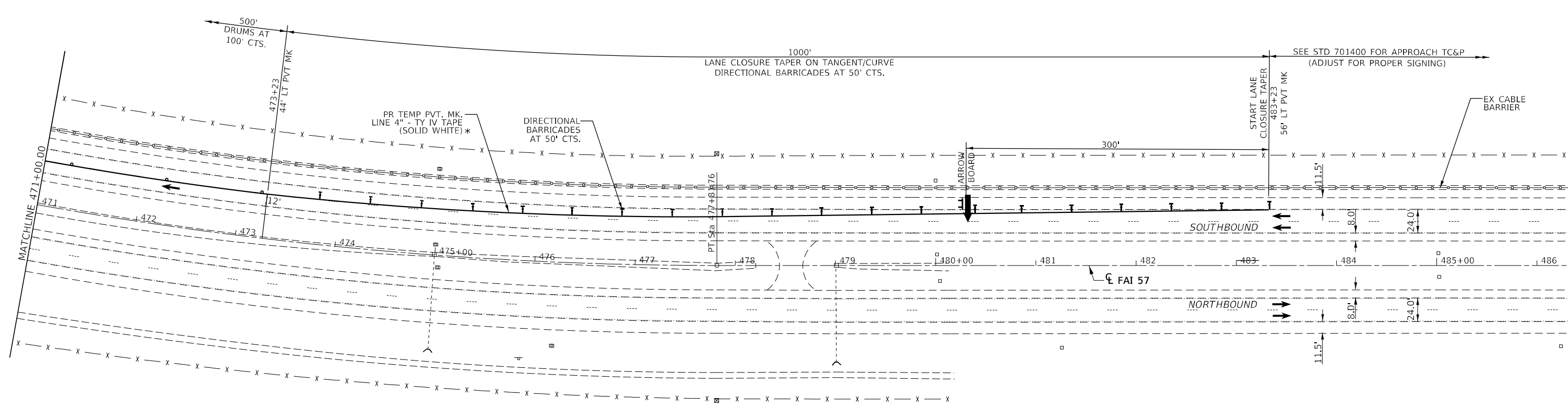
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

<b>I-57</b>		
<b>STAGE 1 TEMPORARY TRAFFIC CONTROL PLANS</b>		
SCALE: 1" = 50'	SHEET 1 OF 6 SHEETS	STA. 441+00 TO STA. 456+00








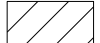
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	(21-27B-2)BR	DOUGLAS	49	15
CONTRACT NO. 70H01				
ILLINOIS FED. AID PROJECT				







**SYMBOLS**

-  SIGN
-  DIRECTION INDICATOR BARRICADE WITH LIGHT
-  TYPE II BARRICADE OR DRUM WITH LIGHT
-  TEMPORARY CONCRETE BARRICADE
-  MONODIRECTIONAL BARRIER WALL REFLECTOR
-  TEMPORARY IMPACT ATTENUATOR
-  ARROW BOARD
-  WORK AREA

\* COVER EXISTING CONFLICTING PVT. MKS. WITH BLACKOUT TAPE

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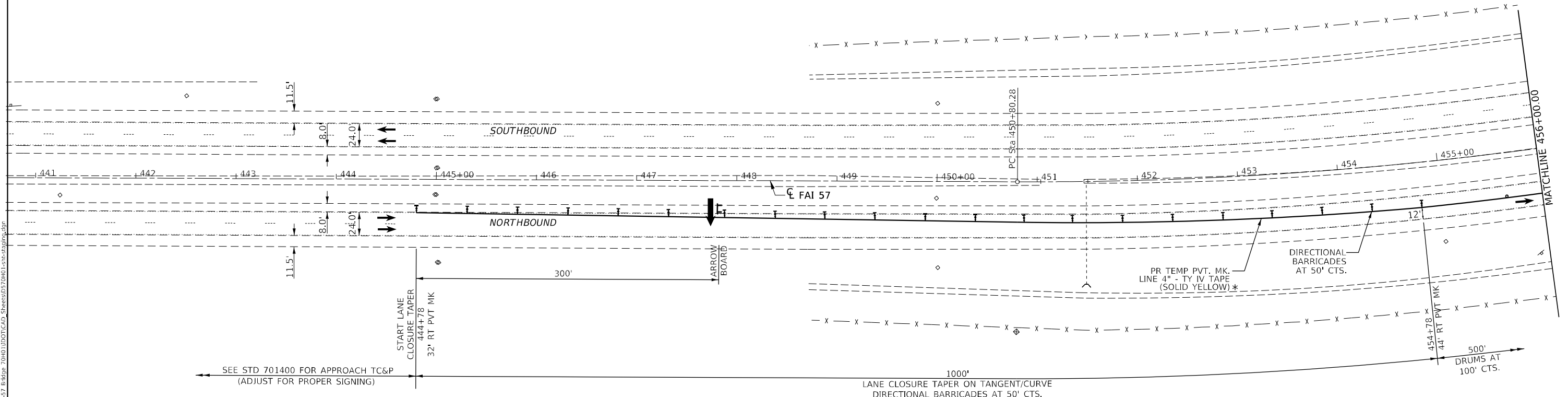
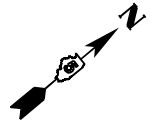
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PLOT DATE = 8/13/2024	CHECKED -	REVISED -
	DATE -	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**









<b>I-57</b>	
<b>STAGE 1 TEMPORARY TRAFFIC CONTROL PLANS</b>	
SCALE: 1" = 50'	SHEET 3 OF 6 SHEETS
STA. 471+00	TO STA. 486+00

F.A.I. RTE. 57	SECTION (21-27B-2)BR	COUNTY DOUGLAS	TOTAL SHEETS 49	SHEET NO. 17
CONTRACT NO. 70H01				
ILLINOIS FED. AID PROJECT				

NOTE: THE INTENT OF THESE TRAFFIC CONTROL DETAILS IS TO SUPPLEMENT THE TRAFFIC CONTROL HIGHWAY STANDARDS INCLUDED IN THE PLANS TO SHOW EXACT LAYOUT OF ITEMS SUCH AS TEMPORARY CONCRETE BARRIER, TEMPORARY IMPACT ATTENUATORS, TEMPORARY PAVEMENT MARKING, ETC... THE NOTES, ADVANCE WARNING SIGNING, ETC... THAT ARE INCLUDED ON THE HIGHWAY STANDARDS ARE NOT ALL DUPLICATED ON THESE SHEETS, BUT SHALL BE CONSIDERED PART OF THIS CONTRACT.



**SYMBOLS**

-  SIGN
-  DIRECTION INDICATOR BARRICADE WITH LIGHT
-  TYPE II BARRICADE OR DRUM WITH LIGHT
-  TEMPORARY CONCRETE BARRICADE
-  MONODIRECTIONAL BARRIER WALL REFLECTOR
-  TEMPORARY IMPACT ATTENUATOR
-  ARROW BOARD
-  WORK AREA

\* COVER EXISTING CONFLICTING PVT. MKS. WITH BLACKOUT TAPE

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PLOT DATE = 8/13/2024	CHECKED -	REVISED -
	DATE -	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

<b>I-57</b>	
<b>STAGE 2 TEMPORARY TRAFFIC CONTROL PLANS</b>	
SCALE: 1" = 50'	SHEET 4 OF 6 SHEETS STA. 441+00 TO STA. 456+00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	(21-27B-2)BR	DOUGLAS	49	18
CONTRACT NO. 70H01				
ILLINOIS FED. AID PROJECT				

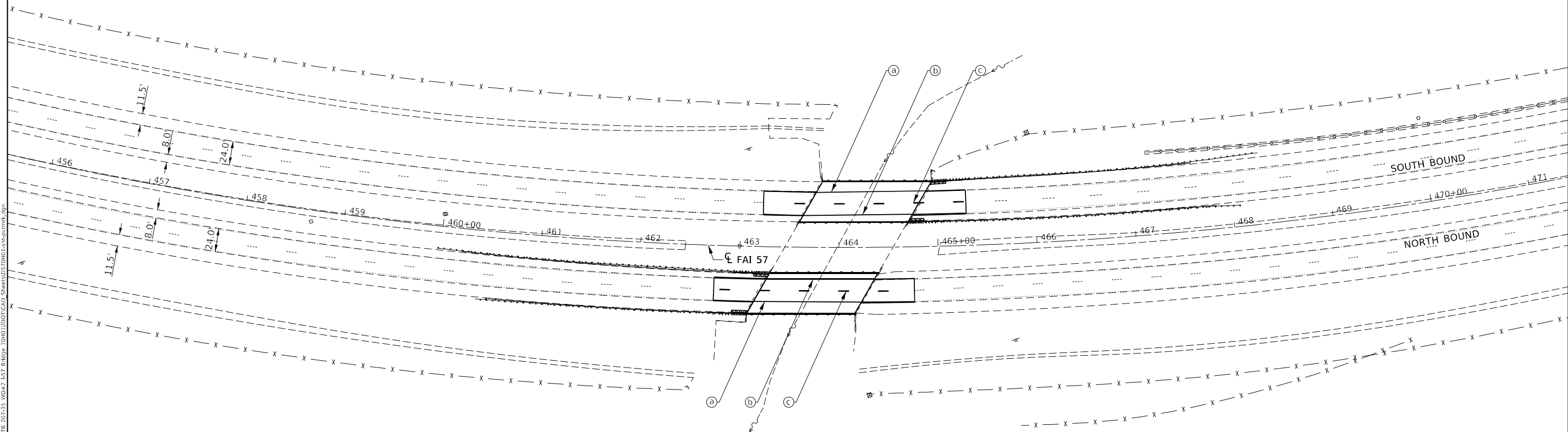




- (a) PR POLYUREA PAVEMENT MARKING, TYPE II - LINE 6" (WHITE)
- (b) PR POLYUREA PAVEMENT MARKING, TYPE II - LINE 6" (YELLOW)
- (c) PR POLYUREA PAVEMENT MARKING, TYPE II - DASHED 6" (WHITE)



NOTE: PR PAVEMENT MARKING TO BE GROOVED PRIOR TO PLACEMENT (1" WIDER) WHICH SHALL BE RECESSED.



EXIST. CURVE GOODALLI\_57\_28  
 PI STA. = 464+90.35  
 $\Delta = 40^\circ 32' 30''$  (LT)  
 $D = 1^\circ 30' 03''$   
 $R = 3,817.88'$   
 $T = 1,410.07'$   
 $L = 2,701.48'$   
 $E = 252.07'$   
 $e = 2.0\%$   
 $T.R. = N/A$   
 $S.E. RUN = N/A$   
 $P.C. STA. = 450+80.28$   
 $P.T. STA. = 477+81.76$

PI Sta 464+90.35

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USER NAME = sskinner	DESIGNED -	REVISED -
PLOT SCALE = 100,0000' / in.	DRAWN -	REVISED -
PLOT DATE = 8/12/2024	CHECKED -	REVISED -
	DATE -	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

<b>I-57 PAVEMENT MARKING PLANS</b>			
SCALE: 1"=50'	SHEET 1 OF 1 SHEETS	STA. 456+00 TO STA. 471+00	

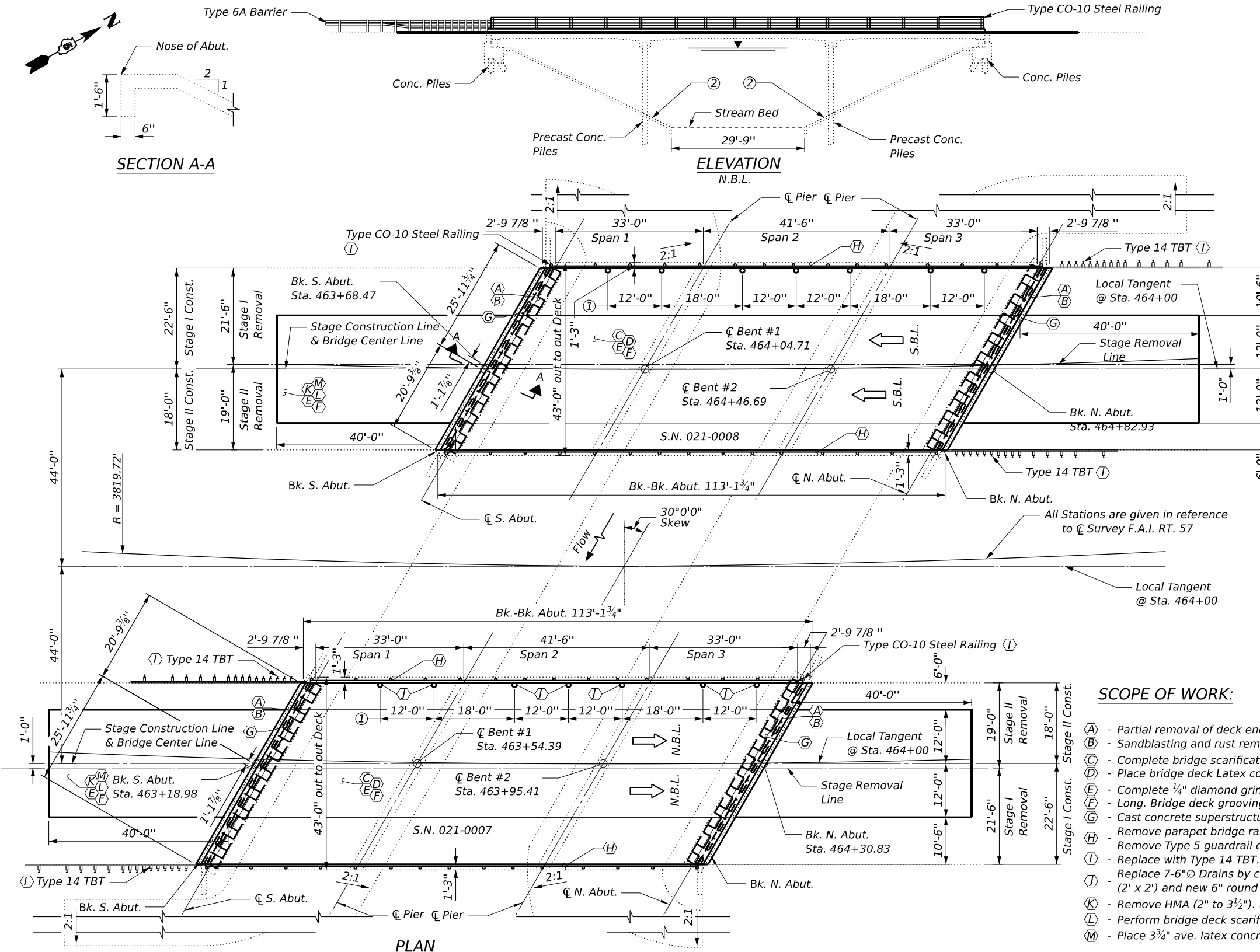
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	(21-27B-2)BR	DOUGLAS	49	21
CONTRACT NO. 70H01				
ILLINOIS FED. AID PROJECT				

Bench Mark: BM: Point No. 5410; Chisled Square, Sta. 464+16.56, 67.01' Rt., Elev. 648.50 (As per Field Book No. 5115)

Existing Structure: SN 021-0007 and SN 021-0008 at Sta. 464+00 were built in 1968 by the State of Illinois under F.A.I. RT. 57, Section 21-27B-2. The original twin structures consisted of dual three-span continuous reinforced concrete slabs over the Scattering Fork. Structures were 113'-1 3/4" back-to-back abutments with 43'-0" out-to-out wide deck. Each deck accommodated two 12-ft lanes. In 1996, the deck was repaired and a microsilica concrete overlay placed as a part of Contract 90535. Of the 17 drains, 4 were removed and patched and 6 were removed and replaced. In 2008, the 021-0008 bridge (South Bound), a 3-ft part of the southern slab and 11'-4" parapet were removed and replaced. In 2018, the 021-0007 (North Bound), a 11-ft part of the southern slab and 9-ft parapet was removed and replaced. The information in plan, elevation and profile are taken from 1968 plans.

Proposed Work: The current work includes the conversion of stub abutments into integral abutments, the replacement of the drains and the removal and replacement of the parapet. Existing bearings will remain in place and will be incorporated into the new integral abutments.

Traffic will be maintained using stage construction.



**DESIGN STRESSES**

**FIELD UNITS**

**NEW CONSTRUCTION**

LOADING HL-93  
 f'c = 4000 psi (Superstructure)  
 fy = 60,000 psi (Reinforcement)  
 fy = 36,000 psi (M270 Grade 36)

**EXISTING CONSTRUCTION (1968)**

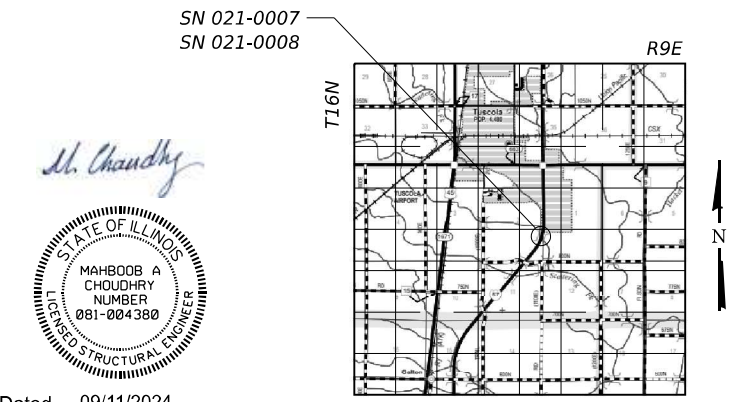
Loading HS20-44  
 fc = 1400 psi (Superstructure)  
 fc = 1400 psi (Substructure)  
 fs = 20,000 psi (Reinforcement)  
 fs = 20,000 psi (Structural Steel)

**DESIGN SPECIFICATION**

2002 AASTHO Standard Specifications for Highway Bridges (17th Edition)

**LEGEND**

- ① Spacing for 6" Floor
- ① Drains (Typ. at each Parapet, See Sheet 5)
- ② 2:1 Slope at Rt. Ls to Abuts.



Dated 09/11/2024  
 Mahboob A Choudhry  
 Licensed Structural Engineer  
 In Illinois No. 081-004380  
 Expires: 11/30/2024

**SCOPE OF WORK:**

- (A) - Partial removal of deck ends and hatch blocks.
- (B) - Sandblasting and rust removal of bearings at abutments.
- (C) - Complete bridge scarification 2 3/4".
- (D) - Place bridge deck Latex concrete overlay 3".
- (E) - Complete 1/4" diamond grinding. (typ.)
- (F) - Long. Bridge deck grooving. (typ.)
- (G) - Cast concrete superstructure.
- (H) - Remove parapet bridge rail. Replace with CO-10 Steel Railing. Remove Type 5 guardrail connections on approach ends.
- (I) - Replace with Type 14 TBT.
- (J) - Replace 7-6" Drains by completing full depth patches (2' x 2') and new 6" round drains Bridge 0007 only.
- (K) - Remove HMA (2" to 3 1/2"). (typ.)
- (L) - Perform bridge deck scarification 3/4". (typ.)
- (M) - Place 3 3/4" ave. latex concrete overlay. (typ.)

**GENERAL PLAN AND ELEVATION  
 FAI 57 (I 57) OVER SCATTERING FORK  
 SECTION (21-27B-2) BR  
 STA 464+00.00  
 SN021-0007(NB) & 0008(SB)  
 DOUGLAS COUNTY**

MODEL: 001-GPE  
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<b>GREENE &amp; BRADFORD, INC.</b> OF SPRINGFIELD CONSULTING ENGINEERS 5001 GARDEN CITY DRIVE SPRINGFIELD, ILLINOIS 62711 PROFESSIONAL DESIGN FIRM NO. 181-051178 PROFESSIONAL ENGINEERING LICENSE NO. 048-210388 (217) 754-8444, 764-5271 (F)	USER NAME = SauravKC PLOT SCALE = PLOT DATE = 9/11/2024	DESIGNED - MAC CHECKED - KAS DRAWN - SKC CHECKED - KAS	REVISED - REVISED - REVISED - REVISED -	<b>STATE OF ILLINOIS                  DEPARTMENT OF TRANSPORTATION</b>	<b>GENERAL PLAN AND ELEVATION                  S. N. 021-0007, S. N. 021-0008</b>	SHEET 1 OF 22 SHEETS	F.A.I. RTE. 57 SECTION (21-27B-2) BR COUNTY DOUGLAS TOTAL SHEETS 49 SHEET NO. 22 CONTRACT NO. 70H01	ILLINOIS FED. AID PROJECT
							ILLINOIS FED. AID PROJECT	

**GENERAL NOTES**

Plan dimensions and details relative to the existing structure have been taken from 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.

Reinforcement bars designated (E) shall be epoxy coated.

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.

Existing bearings shall be sand blasted and cleaned of all rust and existing caps shall be cleaned of all debris prior to the placement of new concrete.

Synthetic Fibers shall be included in the bridge deck concrete overlay specified. See Special Provisions.

See Special Provision "Deck Slab Repair" for additional requirements pertaining to deck slab repair and hma surface removal (deck).

Protective Coat shall be applied to all new concrete superstructure and all new concrete overlays as specified in Article 503.19 of the Standard Specifications.

Existing Name Plates shall be removed, cleaned and incorporated into the new construction. Cost included with Relocating Name Plates.

Deck survey performed on July 13, 2023. Locations and sizes shown in the plans are approximate.

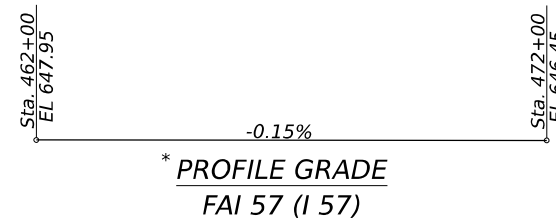
**INDEX OF SHEETS**

Sheet No.	Description
1.	General Plan and Elevation
2.	General Notes
3-4.	Bridge Deck Patching
5.	Structural Repair of Concrete
6.	Deck Drain Replacement
7-8.	Existing and Proposed Typical Cross Sections
9-10.	Stage Construction Details
11.	Temporary Concrete Barrier
12.	Guardrail Removal
13.	Steel Railing Replacement
14-17.	Removal Details at the Abutments
18-21.	Repair Details at the Abutments
22.	Bar Splicer Assembly and Mechanical Splicer Details

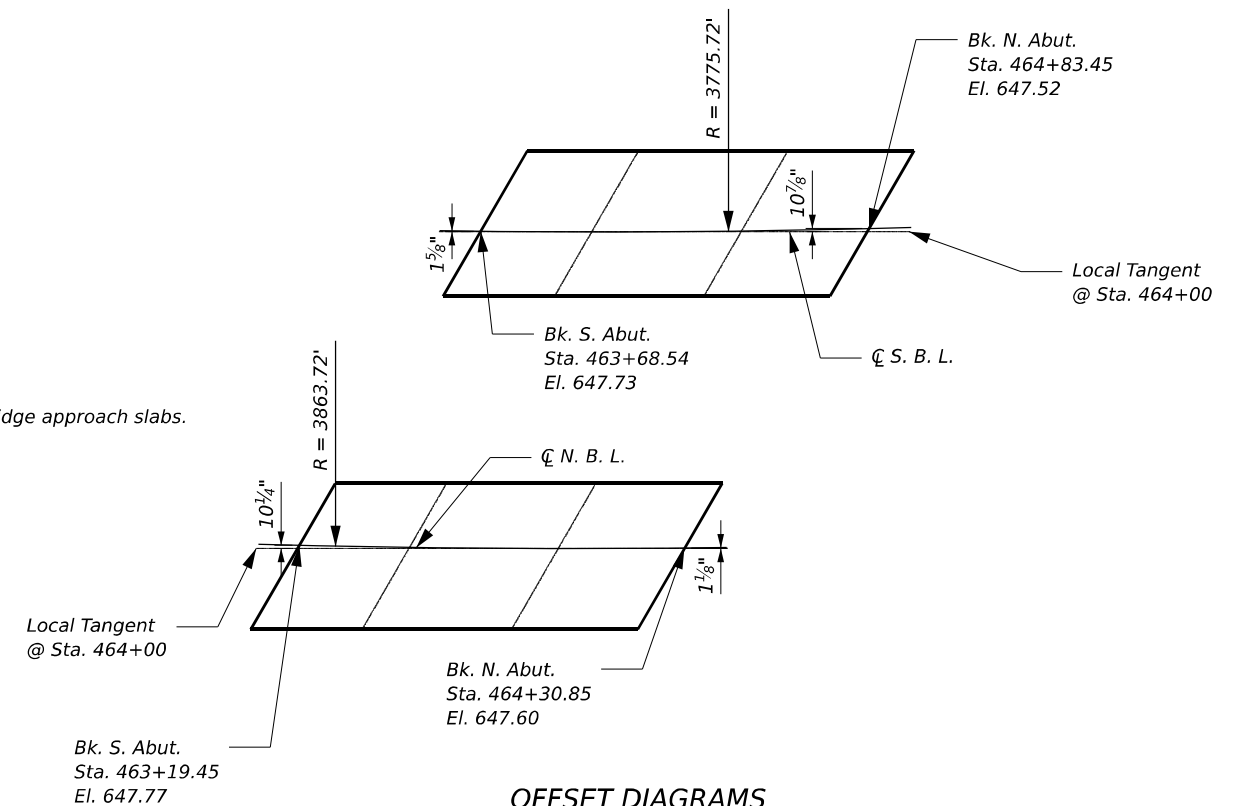
**TOTAL BILL OF MATERIAL**

ITEM	UNIT	SUPER	SUB	TOTAL
Concrete Removal	Cu. Yd.	48.2	-	48.2
Concrete Superstructure	Cu. Yd.	59.4	-	59.4
Hot-Mix Asphalt Surface Removal, Variable Depth	Sq. Yd.	509	-	509
Steel Railing, Type CO-10	Foot	436	-	436
Bridge Deck Grooving (Longitudinal)	Sq. Yd.	1517	-	1517
Protective Coat	Sq. Yd.	1517	-	1517
Reinforcement Bars, Epoxy Coated	Pound	2720	-	2720
Bar Splicers	Each	24	-	24
Bridge Deck Latex Concrete Overlay, 3 Inches	Sq. Yd.	1008	-	1008
Bridge Deck Latex concrete Overlay, 3 3/4 Inches	Sq. Yd.	509	-	509
Bridge Deck Scarification 3/4"	Sq. Yd.	509	-	509
Bridge Deck Scarification 2 3/4"	Sq. Yd.	1008	-	1008
Structural Repair of Concrete (Depth Equal to or Less Than 5 Inches)	Sq. Ft.	67	-	67
Relocating Name Plates	Each	2	-	2
Deck Slab Repair (Full Depth, Type I)	Sq. Yd.	3	-	3
Floor Drains	Each	7	-	7
Diamond Grinding (Bridge Section)	Sq. Yd.	1778	-	1778

† Special Provisions



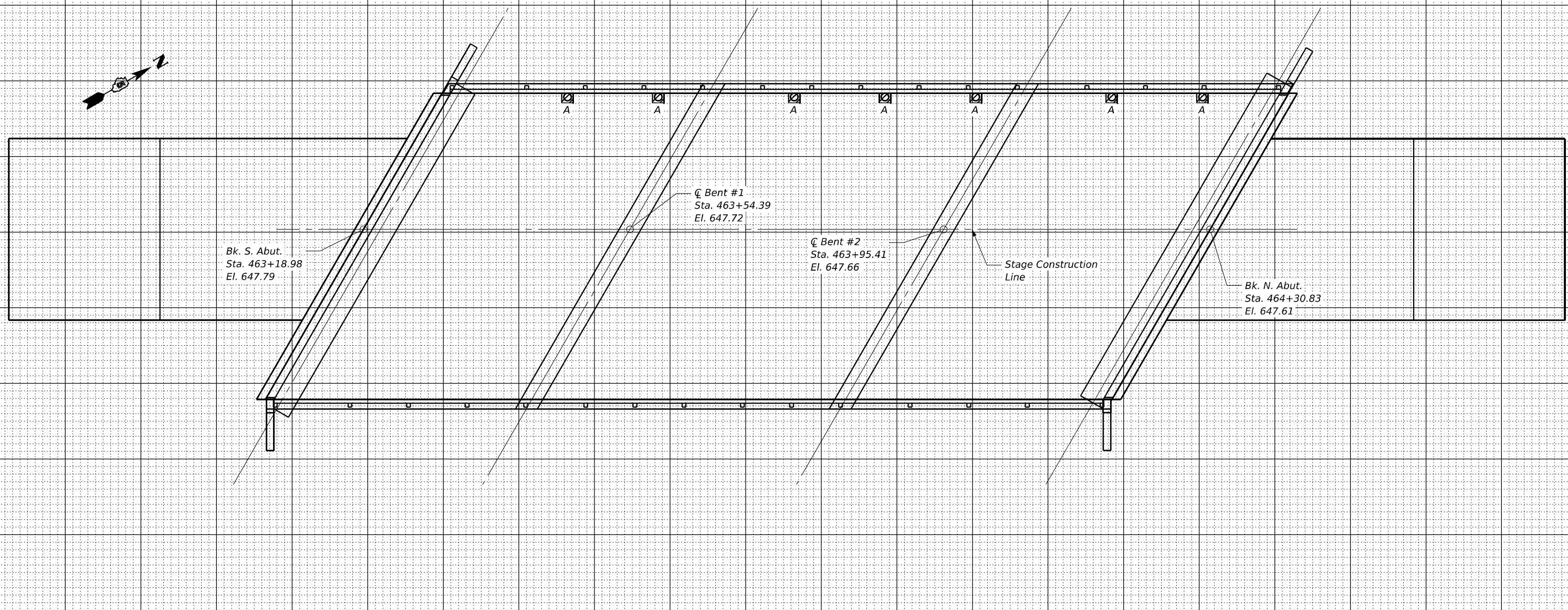
\* Up to 1/4" to be ground off the bridge and the bridge approach slabs.



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<p><b>GREENE &amp; BRADFORD, INC.</b> OF SPRINGFIELD CONSULTING ENGINEERS 3001 GARDEN CITY DRIVE SPRINGFIELD, IL 62761 PROFESSIONAL DESIGN FIRM NO. 181-051178 PROFESSIONAL LAND SURVEYING FIRM NO. 042-010388 (217) 754-8844, 784-6227 (F)</p>	USER NAME = SauravKC	DESIGNED - MAC	REVISED -	<b>STATE OF ILLINOIS</b> <b>DEPARTMENT OF TRANSPORTATION</b>	<b>GENERAL NOTES</b> <b>S. N. 021-0007, S. N. 021-0008</b>	F.A.I. RTE. = 57	SECTION = (21-27B-2) BR	COUNTY = DOUGLAS	TOTAL SHEETS = 49	SHEET NO. = 23
	PLOT SCALE =	DRAWN - SKC	REVISED -			SHEET 2 OF 22 SHEETS		CONTRACT NO. 70H01		ILLINOIS FED. AID PROJECT
PLOT DATE = 10/2/2024	CHECKED - KAS	REVISED -								

21-0007 Bridge Patching



PATCH	SIZE (ft.)		APPROACH SLAB REPAIR (PARTIAL DEPTH) SIZE (sq.ft.)	DECK SLAB REPAIR (PARTIAL DEPTH) SIZE (sq.ft.)
	LENGTH	WIDTH		
<b>SN 021-0007 NB DL</b>				
1	6	6	36.00	
2	20	6	120.00	
3	6	6		36.00
4	12	12		144.00
5	6	12	72.00	
<b>SN 021-0007 NB PL</b>				
6	3	12	36.00	
7	12	2		24.00
8	2	6		12.00
9	15	12		180.00
10	12	2		24.00
11	6	12	72.00	
12	14	6	84.00	
TOTAL ROUNDS TO (sq.ft.) :			420.00	420.00
TOTAL ROUNDS TO (sq.yd.) :			47.00	47.00

THE LOCATIONS SHOWN GRAPHICALLY ABOVE ARE APPROXIMATE

L  
W

DECK SLAB REPAIR

DATE OF SURVEY: 7/13/2023  
SURVEY BY:  
METHOD OF SURVEY: VISUAL

A

Remove & Replace Deck Drain (Full Depth, Type I)  
4 Sq. Ft. = 0.44 Sq. Yd. Each

Note:  
Areas of Deck repairs shown are estimated.  
The Engineer Shall show actual locations and size of deck repairs on As-built Plans.

ESTIMATED PAY QUANTITIES

Floor Drains = 7  
7 - 2 ft. x 2 ft. = 28.0 sq.ft.  
= 3.1 sq. yd.

MODEL: 002\_1 Deck Patching 007  
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**GREENE & BRADFORD, INC.**  
OF SPRINGFIELD  
CONSULTING ENGINEERS  
3001 CALVERT TOWER DRIVE  
SPRINGFIELD, ILLINOIS 62761  
PROFESSIONAL DESIGN FIRM NO. 181-051178  
PROFESSIONAL SEAL NO. 042-010388  
(217) 754-8844, 784-5237 (F)

USER NAME = SauravKC  
PLOT SCALE =  
PLOT DATE = 9/11/2024

DESIGNED - MAC  
CHECKED - KAS  
DRAWN - SKC  
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**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

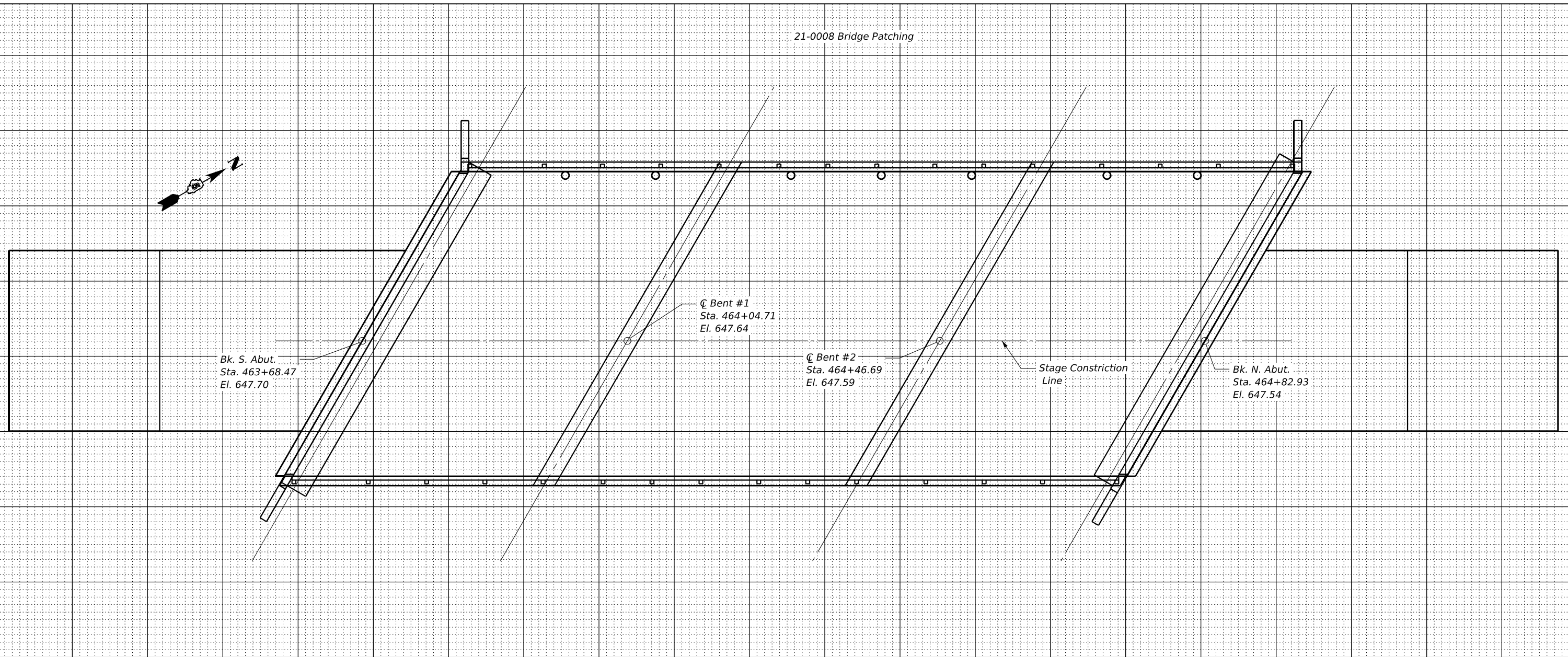
**BRIDGE DECK PATCHING  
S. N. 021-0007**

SHEET 3 OF 22 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	(21-27B-2) BR	DOUGLAS	49	24
CONTRACT NO. 70H01				
ILLINOIS FED. AID PROJECT				



21-0008 Bridge Patching



PATCH	SIZE (ft.)		APPROACH SLAB REPAIR (PARTIAL DEPTH TYPE II)	DECK SLAB REPAIR (PARTIAL DEPTH TYPE II)
	No.	LENGTH	WIDTH	SIZE (sq.ft.)
<b>SN 021-0007 SB DL</b>				
13	10	12	120.00	
14	6	2		12.00
15	6	2		12.00
16	2	12		24.00
17	20	12	240.00	
<b>SN 021-0007 SB PL</b>				
18	2	12	24.00	
19	8	12	96.00	
<b>TOTAL ROUNDS TO (sq.ft.) :</b>			480.00	48.00
<b>TOTAL ROUNDS TO (sq.yd.) :</b>			53.50	5.50

THE LOCATIONS SHOWN GRAPHICALLY ABOVE ARE APPROXIMATE

L

W DECK SLAB REPAIR

DATE OF SURVEY: 7/13/2023  
 SURVEY BY:  
 METHOD OF SURVEY: VISUAL

ESTIMATED PAY QUANTITIES

For Future Use

Note:  
 Areas of Deck repairs shown are estimated.  
 The Engineer Shall show actual locations and size of deck repairs on As-built Plans.

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

BRIDGE DECK PATCHING  
 S. N. 021-0008

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	(21-27B-2) BR	DOUGLAS	49	25
CONTRACT NO. 70H01				

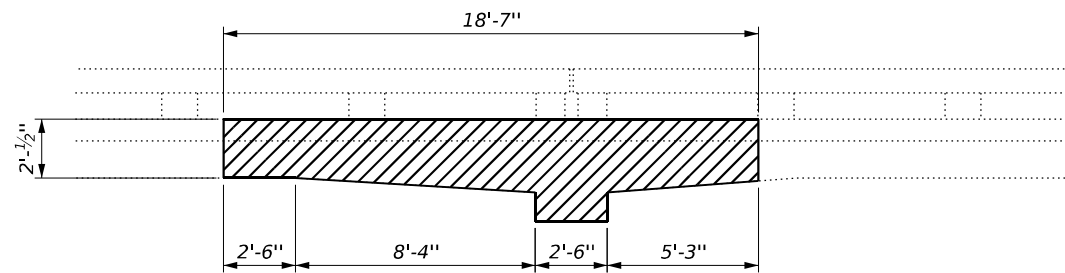
SHEET 4 OF 22 SHEETS

ILLINOIS FED. AID PROJECT

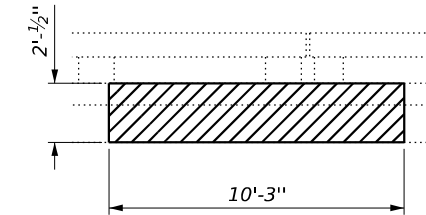
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**GREENE & BRADFORD, INC.**  
 OF SPRINGFIELD  
CONSULTING ENGINEERS  
 5001 GARDEN CITY CENTER  
 SPRINGFIELD, ILLINOIS 62711  
 PROFESSIONAL DESIGN FIRM NO. 181-051178  
 PROFESSIONAL LAND SURVEYING FIRM NO. 045-20398  
 (217) 754-8844, 784-2277 (F)

USER NAME =	SauravKC	DESIGNED -	MAC	REVISED -	
PLOT SCALE =		CHECKED -	KAS	REVISED -	
PLOT DATE =	9/11/2024	DRAWN -	SKC	REVISED -	
		CHECKED -	KAS	REVISED -	



View East @ West Fascia  
Center Span  
S.N. 021-0008



View Northeast @ West Fascia  
S.N. 021-0007



PATCH	Structural Repair of Concrete (Depth Equal to or Less Than 5 Inches)
	Size (Sq. Ft.)
SN 021-0007	21
SN 021-0008	46
TOTAL ROUNDS TO (Sq. Ft.) :	67
TOTAL ROUNDS TO (Sq. Yd.) :	7.4

THE LOCATIONS SHOWN GRAPHICALLY ABOVE ARE APPROXIMATE

L

W

DATE OF SURVEY: 7/13/2023  
SURVEY BY:  
METHOD OF SURVEY: VISUAL

**ESTIMATED PAY QUANTITIES**

Structural Repair of Concrete (Depth Equal to or Less Than 5 Inches)

67 Sq. Ft.

Note:  
Areas of Concrete repairs shown are estimated.  
The Engineer Shall show actual locations and size of concrete repairs on As-built Plans.

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**STRUCTURAL REPAIR OF CONCRETE  
S. N. 021-0007, S. N. 021-0008**

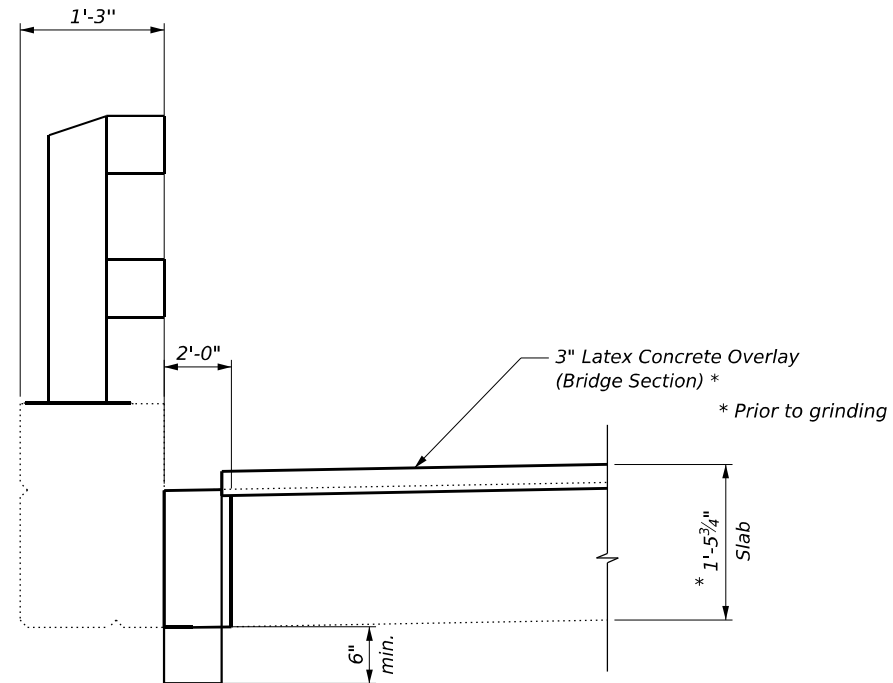
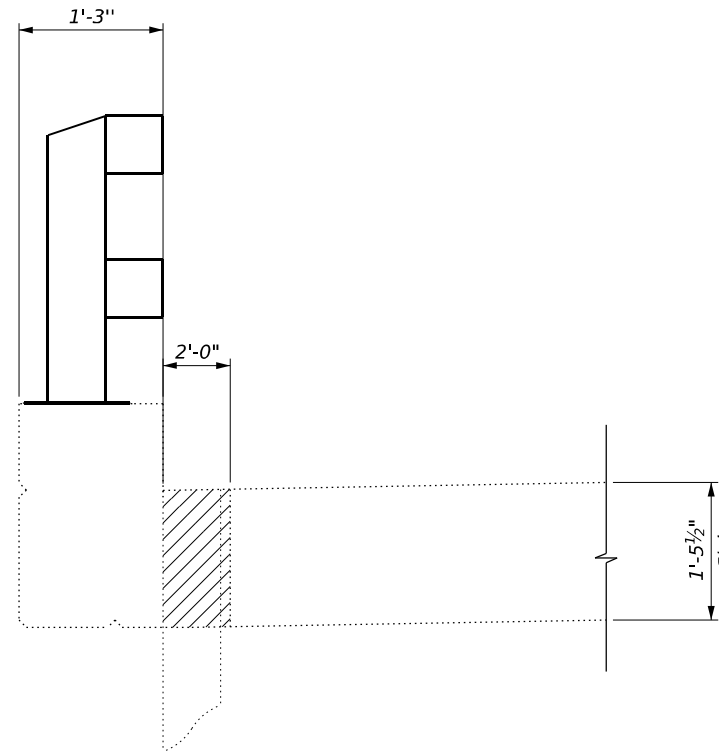
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57	(21-27B-2) BR	DOUGLAS	49	26
CONTRACT NO. 70H01				

SHEET 5 OF 22 SHEETS

ILLINOIS FED. AID PROJECT

MODEL: 002.2A Fascia Patching  
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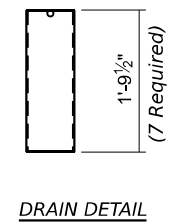
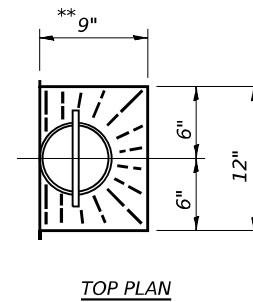
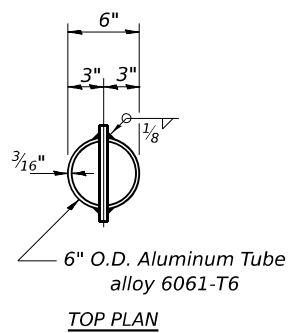
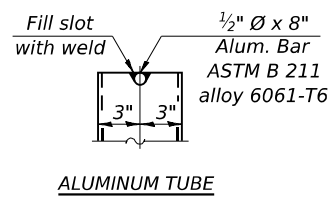
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		CHECKED -	KAS	REVISED -	
PLOT SCALE =		DRAWN -	SKC	REVISED -	
PLOT DATE =	9/11/2024	CHECKED -	KAS	REVISED -	



**LEGEND**  
 Deck Slab Repair (Full Depth), Type I

**SECTIONS THRU DRAIN TO BE REPLACED**  
 7 Locations - See Bridge Patching Sheet

**Notes:**  
 All dimensions shall be field verified by the Contractor prior to ordering materials.  
 Cost of the removal of existing drains is included in Deck Slab Repair.



\*\* slope to drain

MODEL: 002.3 Deck Drain Replacement  
 FILE NAME: C:\OneDrive\Greene & Bradford Inc\G&B - Projects\2023\23103.02 PTB 207-035 D5 W0# 2\DOT\23103.02 PTB 207-035 W02\dgn\Structures\SN 021-0007.dgn

**GREENE & BRADFORD, INC.**  
 OF SPRINGFIELD  
 CONSULTING ENGINEERS  
 5001 CARROLLTON DRIVE  
 SPRINGFIELD, IL 62711  
 PROFESSIONAL DESIGN FIRM NO. 181-051178  
 PROFESSIONAL LAND SURVEYING FIRM NO. 042-010388  
 (217) 754-8444, 784-5271 (F)

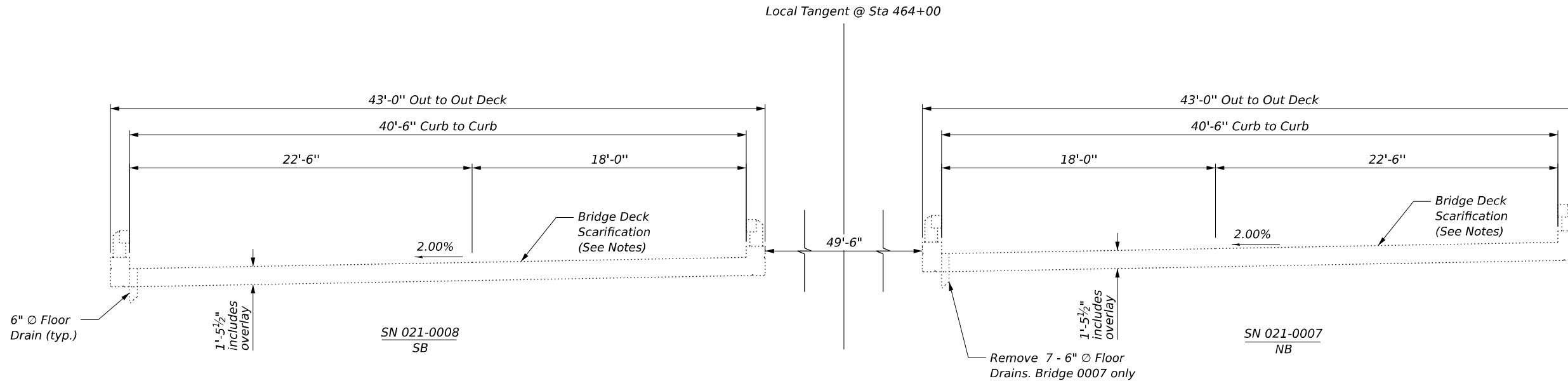
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		CHECKED -	KAS	REVISED -	

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

**DECK DRAIN REPLACEMENT DETAILS**  
**S. N. 021-0007**  
 SHEET 6 OF 22 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	(21-27B-2) BR	DOUGLAS	49	27
CONTRACT NO. 70H01				
ILLINOIS FED. AID PROJECT				

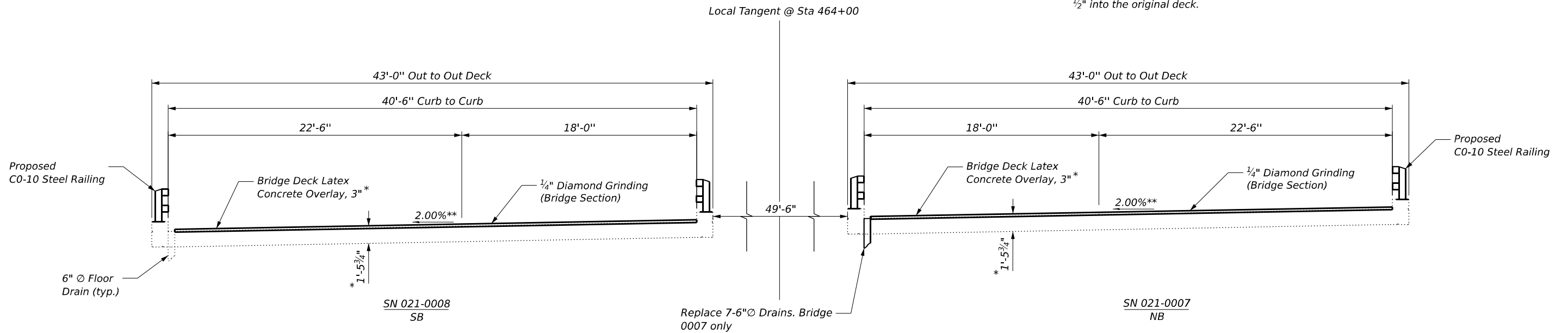
003-Cross Sections  
 FILE NAME: C:\OneDrive\Greene & Bradford Inc\G&B - Projects\2023\23103.02 PTB 207-4035 D5 W0# 2\DOT\23103.02 PTB 207-4035 W02\dgn\Structures\SN 021-0007.dgn



**EXISTING DECK CROSS SECTION**  
 (Looking North)

**REMOVAL NOTES**

Scarify deck 2 3/4" to remove existing 2 1/4" microsilica concrete overlay and another 1/2" into the original deck.



**PROPOSED DECK CROSS SECTION**  
 (Looking North)

\* Prior to grinding  
 \*\* Match existing

**GREENE & BRADFORD, INC.**  
 OF SPRINGFIELD  
 CONSULTING ENGINEERS  
 5001 CANTONVILLE DRIVE  
 SPRINGFIELD, ILLINOIS 62711  
 PROFESSIONAL DESIGN FIRM NO. 181-051178  
 PROFESSIONAL LAND SURVEYING FIRM NO. 042-010388  
 (217) 754-8444, 784-2377 (F)

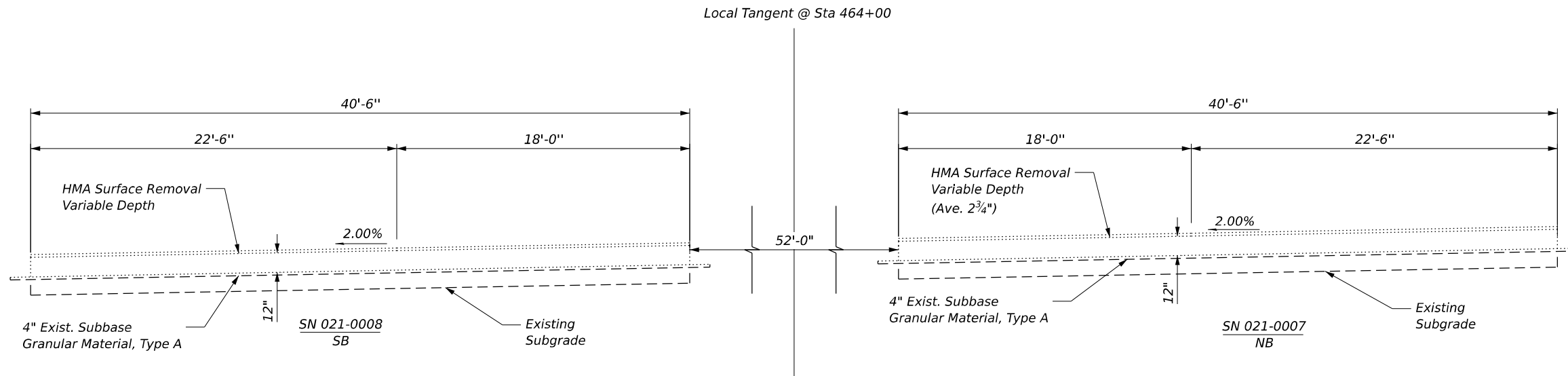
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PLOT DATE =	10/2/2024	CHECKED -	KAS	REVISED -	

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

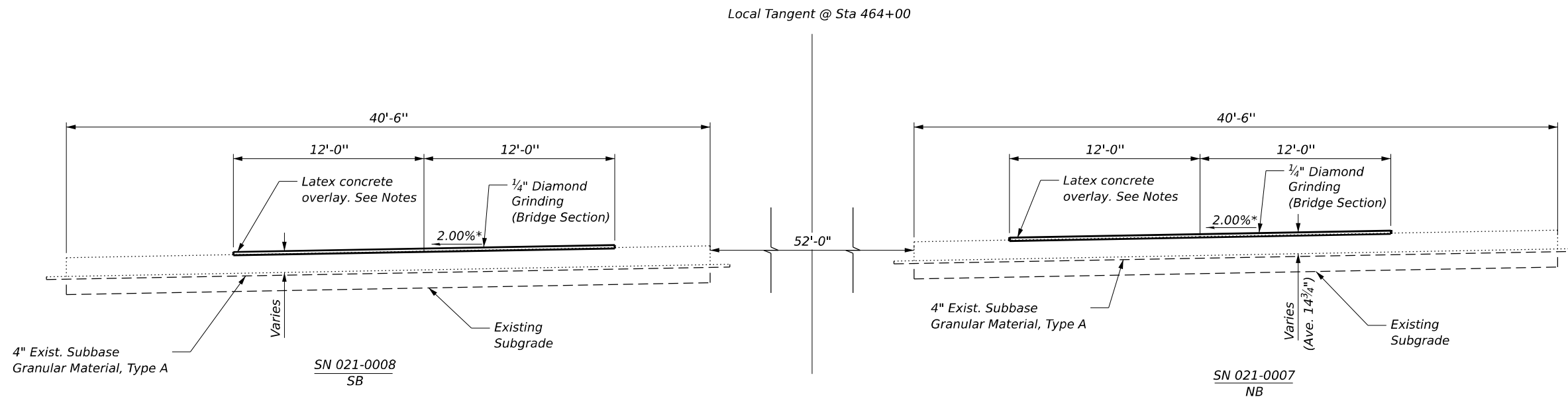
**EXISTING AND PROPOSED BRIDGE DECK CROSS SECTIONS**  
**S. N. 021-0007, S. N. 021-0008**

SHEET 7 OF 22 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	(21-27B-2) BR	DOUGLAS	49	28
CONTRACT NO. 70H01				
ILLINOIS FED. AID PROJECT				



**EXISTING APPROACH SLAB CROSS SECTION**  
(Looking North)



**PROPOSED APPROACH SLAB CROSS SECTION**  
(Looking North)

\* Match existing

**NOTES**

- Approach Slab Repairs**
- Existing HMA resurfacing varies from 2" to per the 2009 joint detail.
  - Remove the HMA (2" to 3 1/2") on slab, perform bridge deck scarification 3/4".
  - Place 3 3/4" (average) latex concrete overlay prior to 1/4" diamond grinding. Thickness will vary (3" to 4 1/2") to match 2009 butt joint detail.

MODEL: 004-Cross\_Sections 2  
FILE NAME: C:\OneDrive\Greene & Bradford Inc\G&B - Projects\2023\23103.02 PTB 207-035 D5 W0# 2\DOT\23103.02 PTB 207-035 W02\dgn\Structures\SN 021-0007.dgn

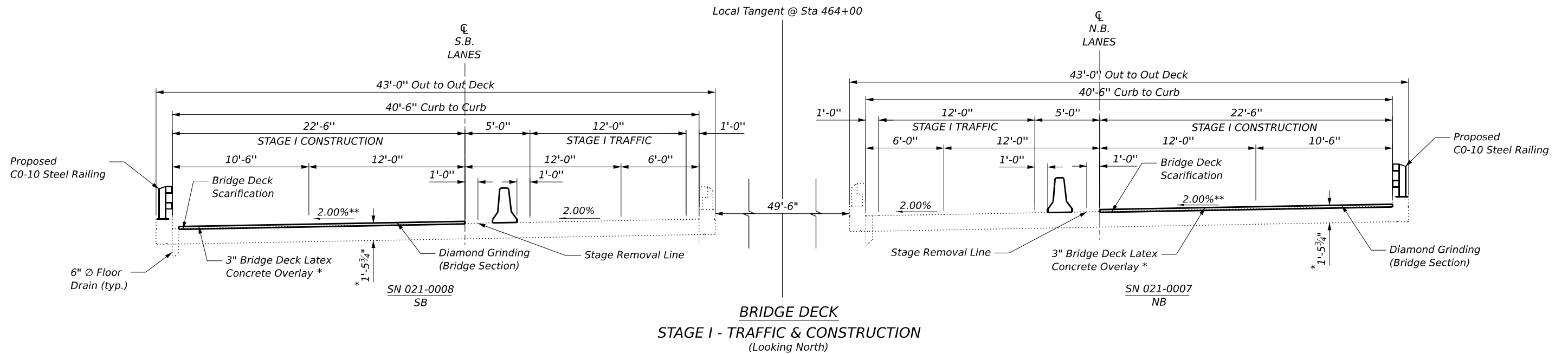
**GREENE & BRADFORD, INC.**  
OF SPRINGFIELD  
CONSULTING ENGINEERS  
3001 CARROLLTON DRIVE  
SPRINGFIELD, IL 62777  
PROFESSIONAL DESIGN FIRM NO. 181-051178  
PROFESSIONAL LAND SURVEYING FIRM NO. 042-010388  
(217) 754-8844, 784-6277 (F)

USER NAME = SauravKC	DESIGNED - MAC	REVISED -
	CHECKED - KAS	REVISED -
	DRAWN - SKC	REVISED -
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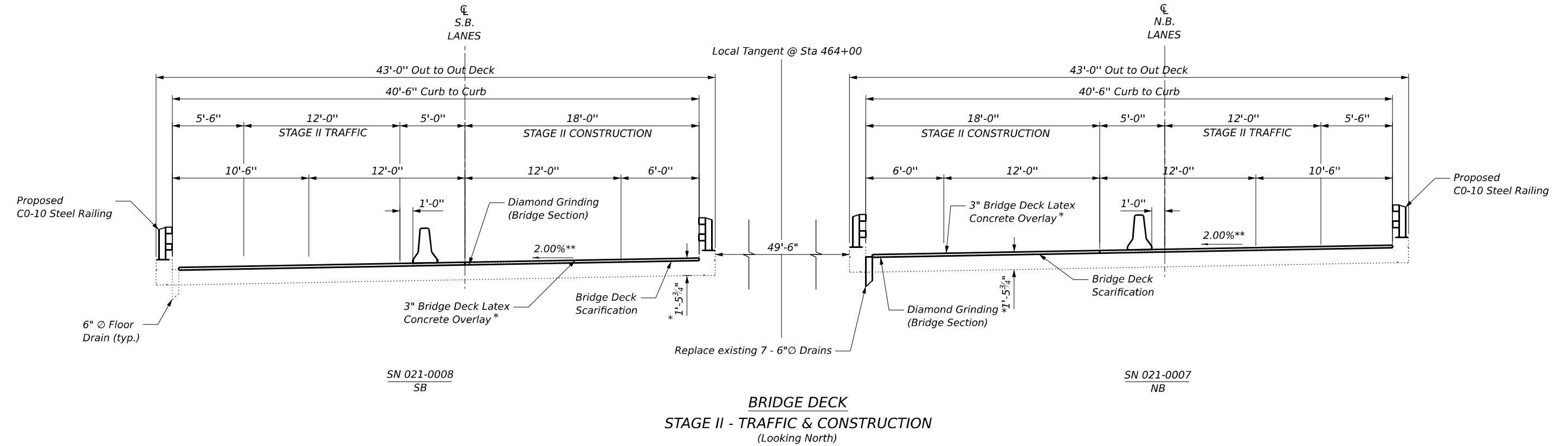
**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

**EXISTING AND PROPOSED APPROACH SLAB CROSS SECTIONS**  
**S. N. 021-0007, S. N. 021-0008**

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	(21-27B-2) BR	DOUGLAS	49	29
CONTRACT NO. 70H01				
ILLINOIS FED. AID PROJECT				



**BRIDGE DECK**  
**STAGE I - TRAFFIC & CONSTRUCTION**  
 (Looking North)



**BRIDGE DECK**  
**STAGE II - TRAFFIC & CONSTRUCTION**  
 (Looking North)

\* Prior to 1/4" grinding  
 \*\* Match existing

MODEL: 005-Appr\_Slab  
 FILE NAME: C:\OneDrive\Greene & Bradford Inc\G&B - Projects\2023\23103.02 PTB 207-035 D5 W0# 2\DOT\23103.02 PTB 207-035 W02\dgn\Structures\SN 021-0007.dgn  
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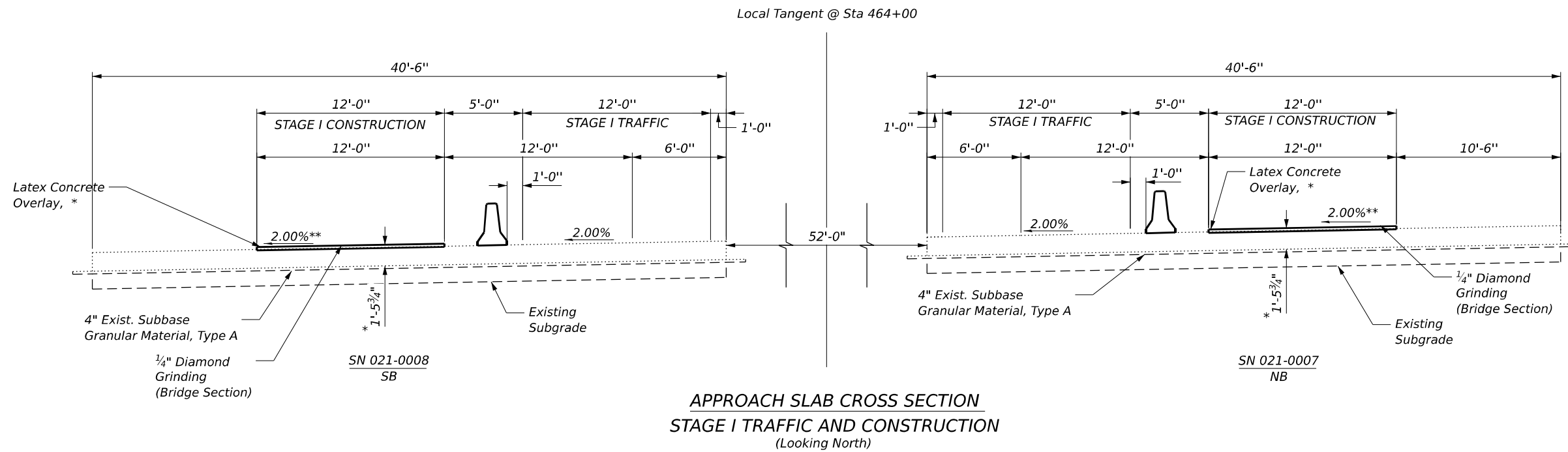
**GREENE & BRADFORD, INC.**  
 OF SPRINGFIELD  
 CONSULTING ENGINEERS  
 5001 CANTONVILLE DRIVE  
 SPRINGFIELD, ILLINOIS 62711  
 PROFESSIONAL DESIGN FIRM NO. 181-051178  
 PROFESSIONAL LAND SURVEY FIRM NO. 042-010388  
 (217) 754-8844, 784-2371 (F)

USER NAME =	SauravKC	DESIGNED -	MAC	REVISED -	
PLOT SCALE =		CHECKED -	KAS	REVISED -	
PLOT DATE =	10/2/2024	DRAWN -	SKC	REVISED -	
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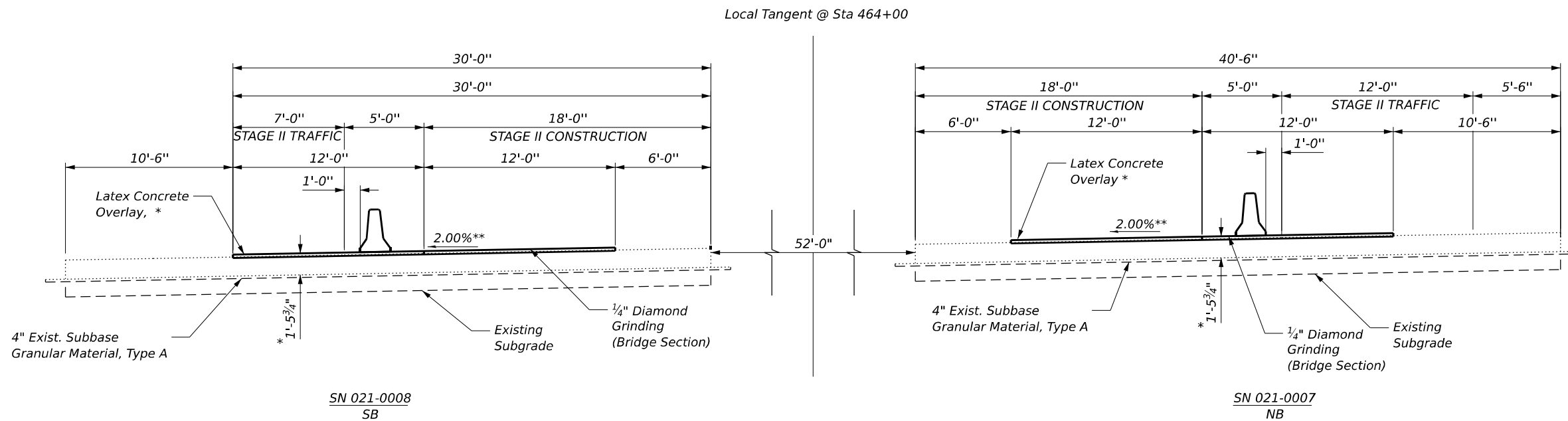
**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

**STAGE CONSTRUCTION DETAILS - BRIDGE**  
**S. N. 021-0007, S. N. 021-0008**  
 SHEET 9 OF 22 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	(21-27B-2) BR	DOUGLAS	49	30
CONTRACT NO. 70H01				
ILLINOIS FED. AID PROJECT				



APPROACH SLAB CROSS SECTION  
STAGE I TRAFFIC AND CONSTRUCTION  
(Looking North)



APPROACH SLAB CROSS SECTION  
STAGE II TRAFFIC AND CONSTRUCTION  
(Looking North)

\* Prior to 1/4" grinding  
\*\* Match existing

**NOTES**

- Approach Slab Repairs**
- Existing HMA resurfacing varies from 2" to per the 2009 joint detail.
  - Remove the HMA (2" to 3 1/2") on slab, perform bridge deck scarification 3/4".
  - Place 3 3/4" (average) latex concrete overlay prior to 1/4" diamond grinding. Thickness will vary (3" to 4 1/2") to match 2009 butt joint detail.

MODEL: 006-Stage\_Construction  
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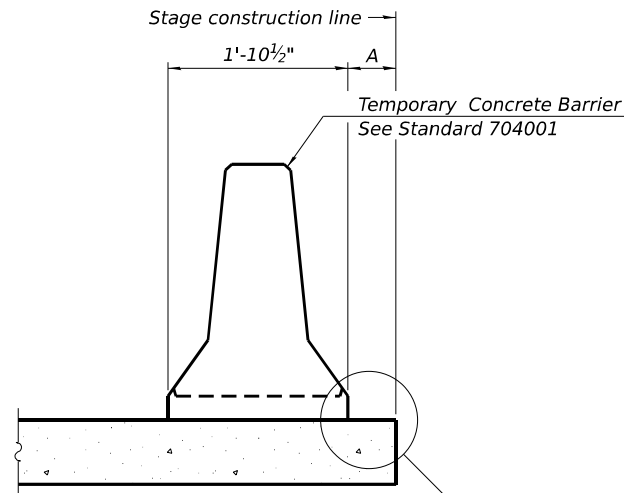
**GREENE & BRADFORD, INC.**  
OF SPRINGFIELD  
CONSULTING ENGINEERS  
3001 CANTONMENT DRIVE  
SPRINGFIELD, ILLINOIS 62711  
PROFESSIONAL DESIGN FIRM NO. 181-051178  
PROFESSIONAL LAND SURVEY FIRM NO. 042-020388  
(217) 754-8844, 784-6227 (F)

USER NAME =	SauravKC	DESIGNED -	MAC	REVISED -	
PLOT SCALE =		CHECKED -	KAS	REVISED -	
PLOT DATE =	10/2/2024	DRAWN -	SKC	REVISED -	
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**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

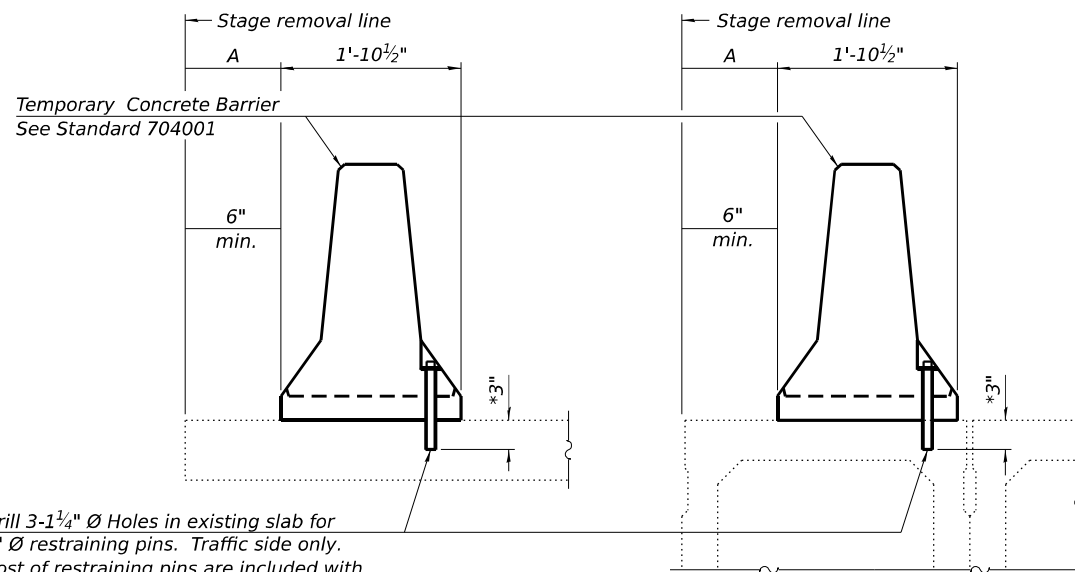
**STAGE CONSTRUCTION DETAILS- APPROACH SLAB**  
**S. N. 021-0007, S. N. 021-0008**

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	(21-27B-2) BR	DOUGLAS	49	31
CONTRACT NO. 70H01				
ILLINOIS FED. AID PROJECT				



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

NEW SLAB OR NEW DECK BEAM



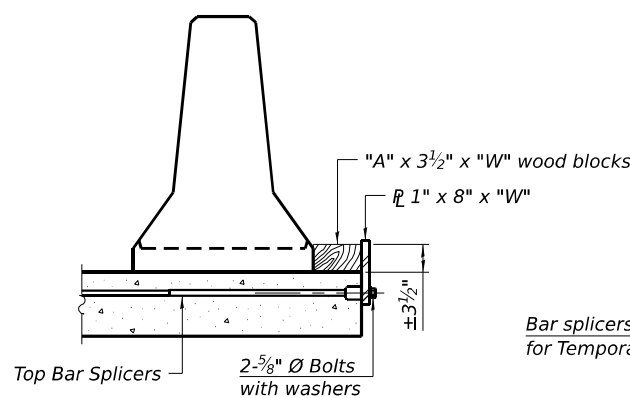
Drill 3-1/4" Ø Holes in existing slab for 1" Ø restraining pins. Traffic side only. Cost of restraining pins are included with Temporary Concrete Barrier. No restraint is required when "A" is greater than 3'-1".

EXISTING SLAB

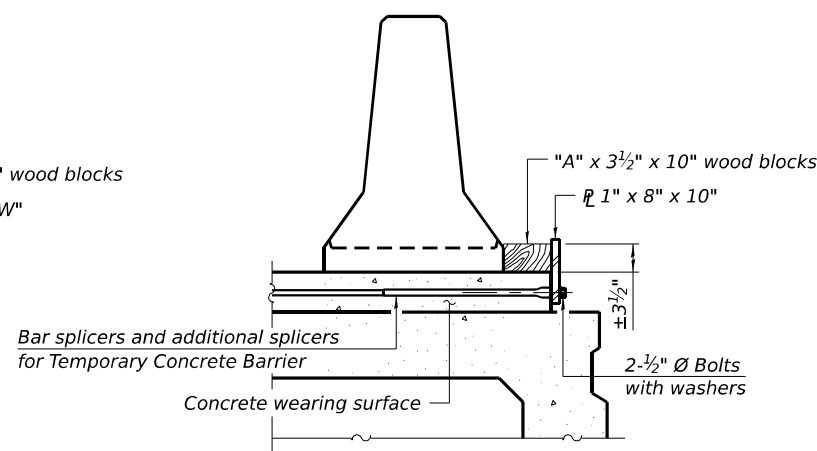
\*When hot-mix asphalt wearing surface is present, embedment shall be 3" plus the wearing surface depth.

EXISTING DECK BEAM

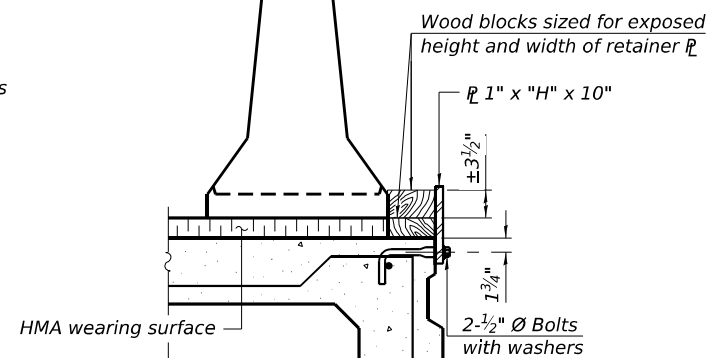
SECTIONS THRU SLAB OR DECK BEAM



DETAIL I

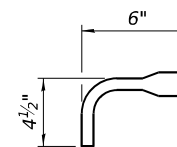


DETAIL II



DETAIL III

BAR SPLICER FOR #4 BAR - DETAIL III

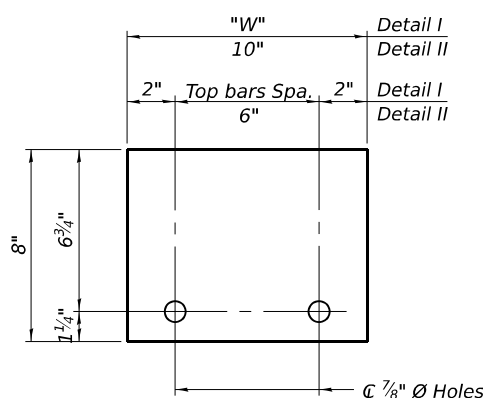


Notes:  
 Cost of retainer assembly is included with Temporary Concrete Barrier. A retainer assembly shall be located at the approximate C of each temporary concrete barrier.  
 The retainer plate shall not be removed until the concrete on the adjacent stage is ready to be poured. For Detail III applications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

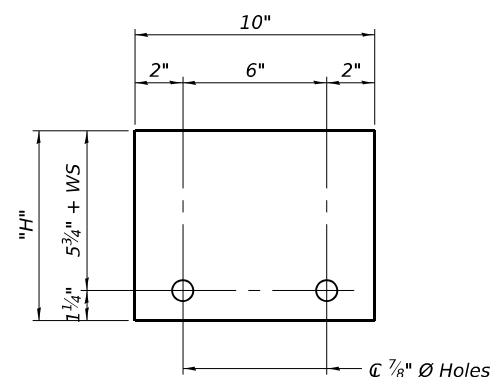
Detail I - Installation for a new bridge deck or bridge slab.

Detail II - Installation for a new deck beam with an initial concrete wearing surface. Additional bar splicers shall be provided at 6'-0" centers and paired with the bar splicers of the concrete wearing surface reinforcement to accommodate the installation of the retainer assemblies. The cost of the additional bar splicers is included with the concrete wearing surface.

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



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



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

RAILING CRITERIA

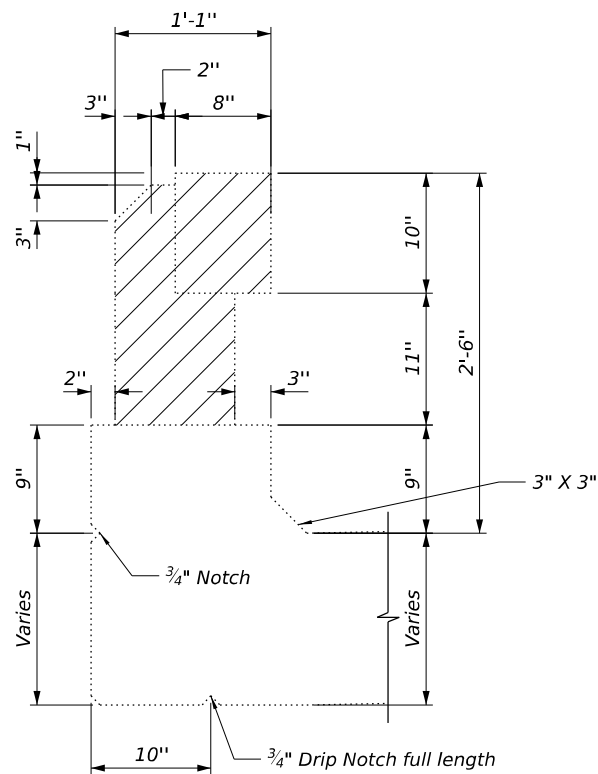
NCHRP 350 Test Level	3
Railing Weight (plf)	440

R-27 5-15-2023

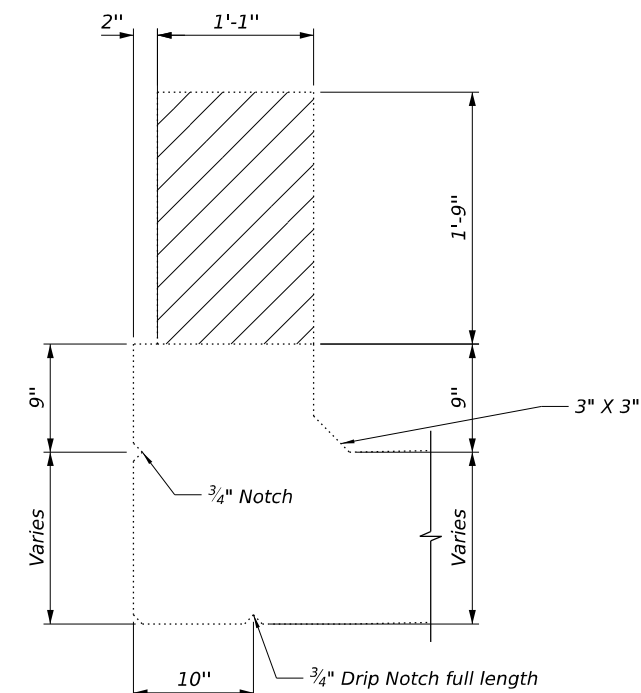
MODEL: 007-Temp. Concrete Barrier  
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<b>GREENE &amp; BRADFORD, INC.</b> OF SPRINGFIELD <small>CONSULTING ENGINEERS          5001 CONSTITUTION DRIVE          SPRINGFIELD, IL 62765-0271          PROFESSIONAL DESIGN FIRM NO. 181-051178          PROFESSIONAL LAND SURVEYING FIRM NO. 045-210398          (217) 754-8844, 784-5237 (F)</small>	USER NAME = SauravKC	DESIGNED - MAC	REVISED -	<b>STATE OF ILLINOIS</b> <b>DEPARTMENT OF TRANSPORTATION</b>	<b>TEMPORARY CONCRETE BARRIER</b> <b>S. N. 021-0007, S. N. 021-0008</b>	F.A.I. RTE. = 57	SECTION = (21-27B-2) BR	COUNTY = DOUGLAS	TOTAL SHEETS = 49	SHEET NO. = 32
	PLOT SCALE =	DRAWN - SKC	REVISED -			SHEET 11 OF 22 SHEETS	CONTRACT NO. 70H01			
	PLOT DATE = 9/11/2024	CHECKED - KAS	REVISED -	ILLINOIS FED. AID PROJECT						

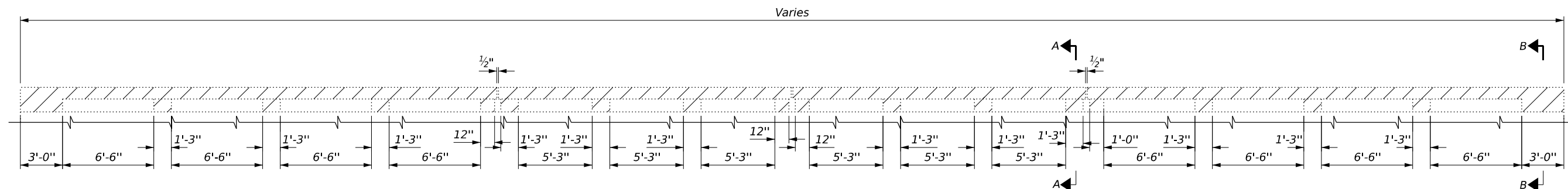




BRIDGE GUARDRAIL CROSS-SECTION  
(A-A)



BRIDGE GUARDRAIL CROSS-SECTION  
(B-B)



BRIDGE GUARDRAIL REMOVAL ELEVATION

LEGEND

Concrete Removal

Notes:

South Bound West rail and North Bound East Rail 109'-2"

North Bound West rail and South Bound East Rail 108'-7"

Bridge Guardrail removal is included in and paid under Concrete Removal.

BILL OF MATERIAL

Item	Unit	Quantity
Concrete Removal	Cu. Yd.	13.0

MODEL: 008-Parapet Replacement  
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**GREENE & BRADFORD, INC.**  
 OF SPRINGFIELD  
 CONSULTING ENGINEERS  
 5001 CANTONVILLE DRIVE  
 SPRINGFIELD, IL 62711  
 PROFESSIONAL DESIGN FIRM NO. 181-051178  
 PROFESSIONAL LAND SURVEY FIRM NO. 042-010388  
 (217) 754-8844, 784-5271 (F)

USER NAME =	SauravKC	DESIGNED -	MAC	REVISED -	
PLOT SCALE =		CHECKED -	KAS	REVISED -	
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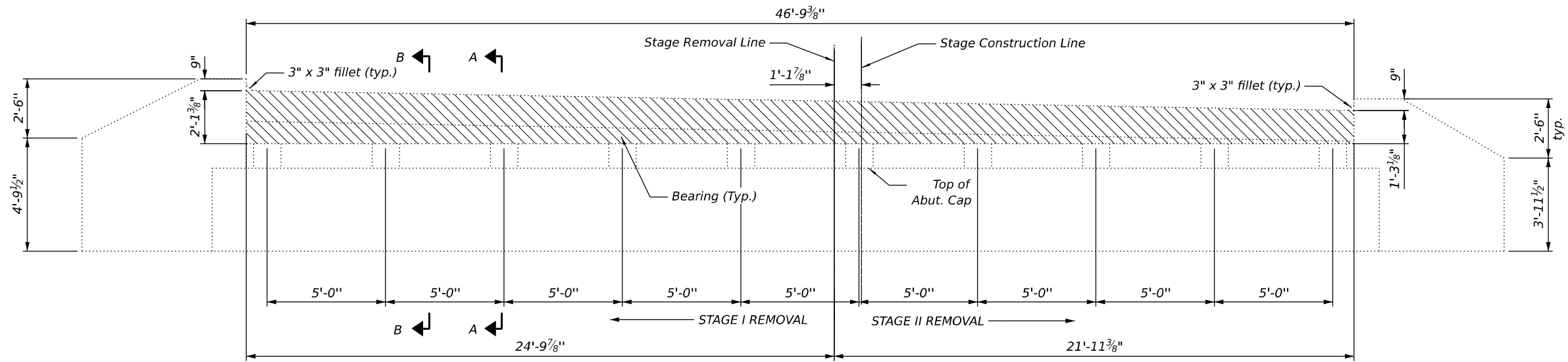
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

GUARDRAIL REMOVAL  
S. N. 021-0007, S. N. 021-0008

SHEET 12 OF 22 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	(21-27B-2) BR	DOUGLAS	49	33
CONTRACT NO. 70H01				
ILLINOIS FED. AID PROJECT				



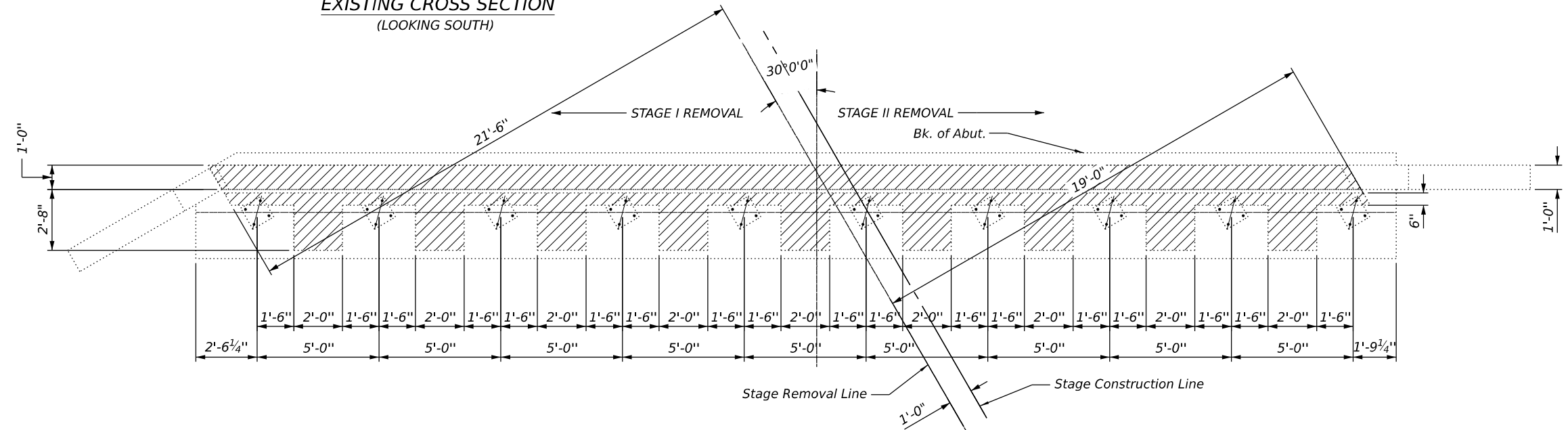


**EXISTING CROSS SECTION**  
(LOOKING SOUTH)

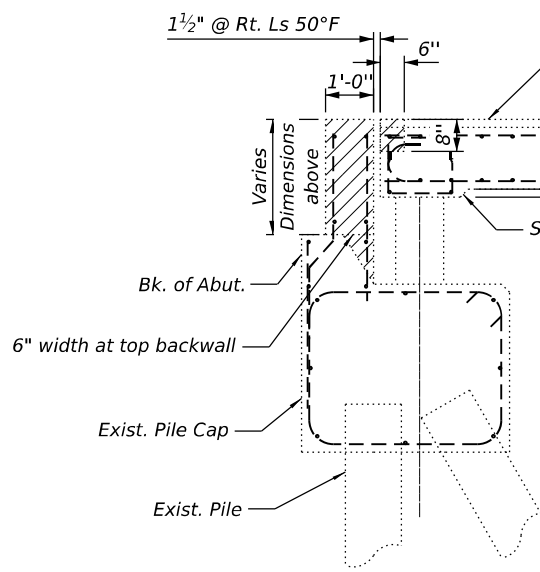
**LEGEND**

Concrete Removal

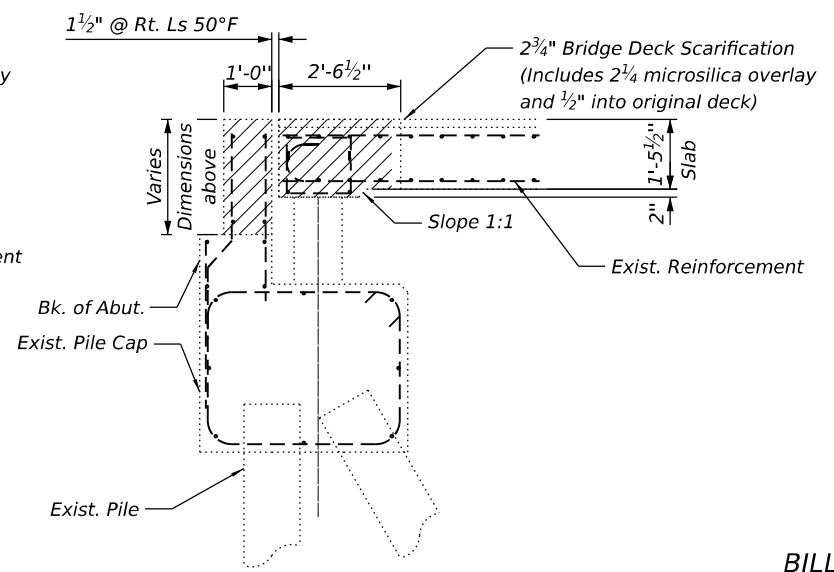
Notes:  
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Piles not shown for clarity.



**EXISTING PLAN**  
(DIMENSIONS FROM BK OF ABUTMENT)



**SECTION A-A**



**SECTION B-B**

**BILL OF MATERIAL**

Item	Unit	Quantity
Concrete Removal	Cu. Yd.	8.8

MODEL: 010-REMOVAL DETAILS (R) ABUTS.sia  
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**GREENE & BRADFORD, INC.**  
OF SPRINGFIELD  
CONSULTING ENGINEERS  
3001 CALVERTURTON DRIVE  
SPRINGFIELD, ILLINOIS 62711  
PROFESSIONAL DESIGN FIRM NO. 181-051178  
PROFESSIONAL LAND SURVEYING FIRM NO. 045-010388  
(217) 754-8844, 784-6277 (F)

USER NAME =	SauravKC	DESIGNED -	MAC	REVISED -	
PLOT SCALE =		CHECKED -	KAS	REVISED -	
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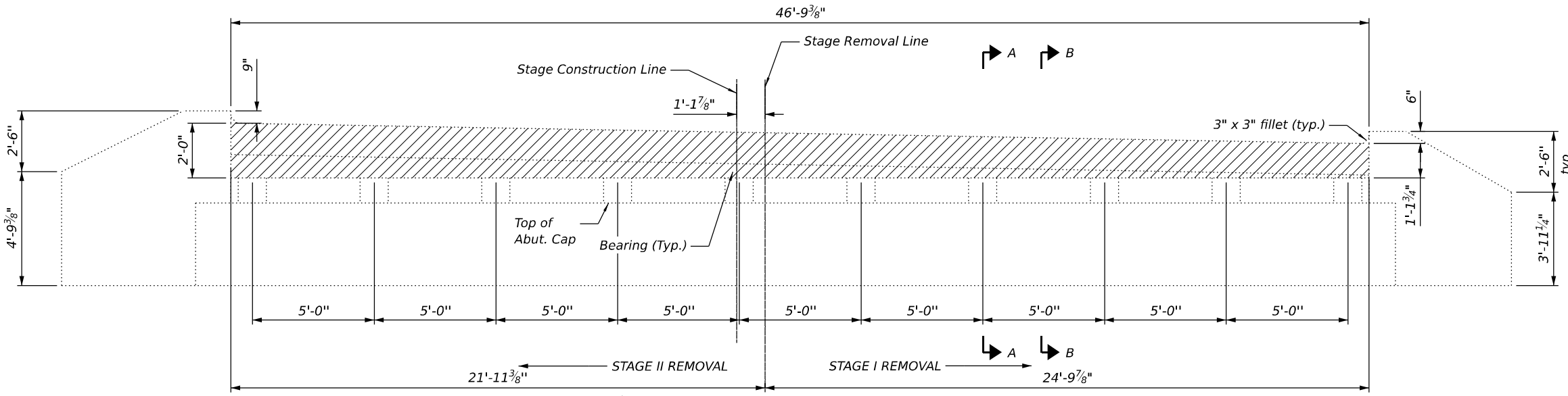
**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

**REMOVAL DETAILS AT SOUTH ABUTMENTS**  
**S. N. 021-0007**

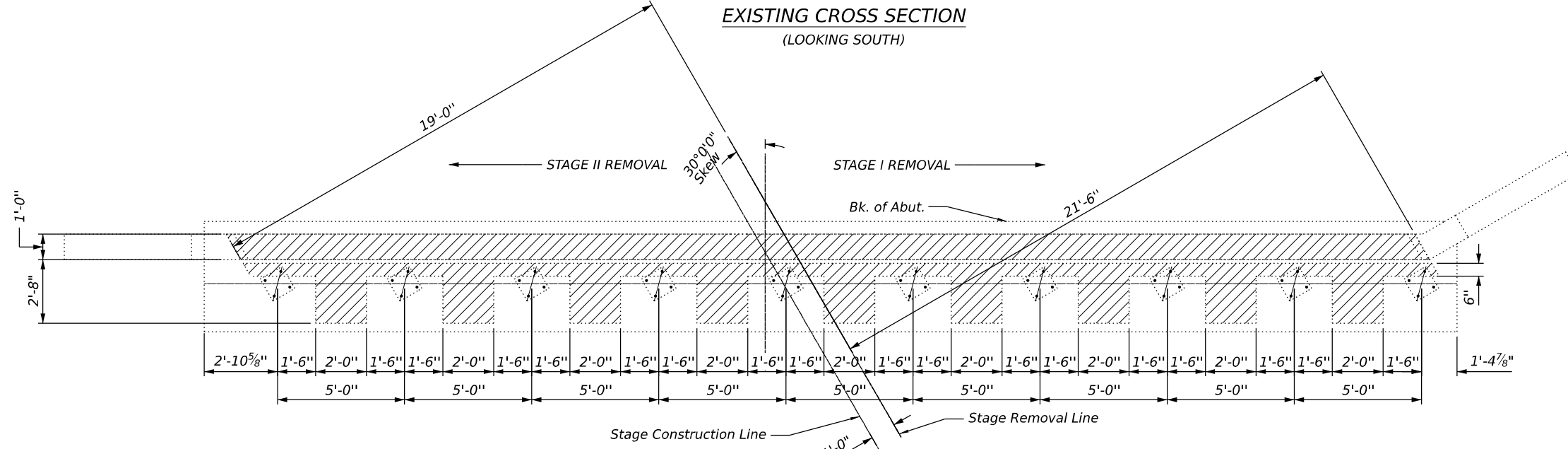
SHEET 14 OF 22 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	(21-27B-2) BR	DOUGLAS	49	35
CONTRACT NO. 70H01				
ILLINOIS FED. AID PROJECT				

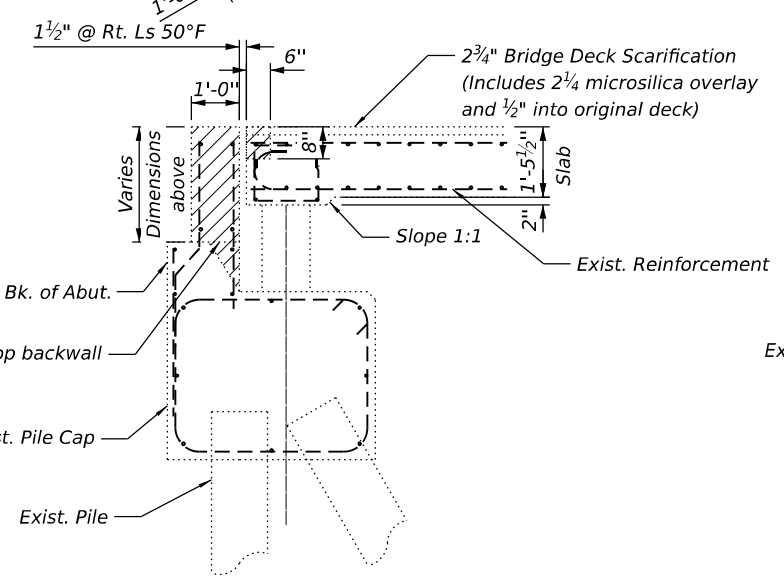




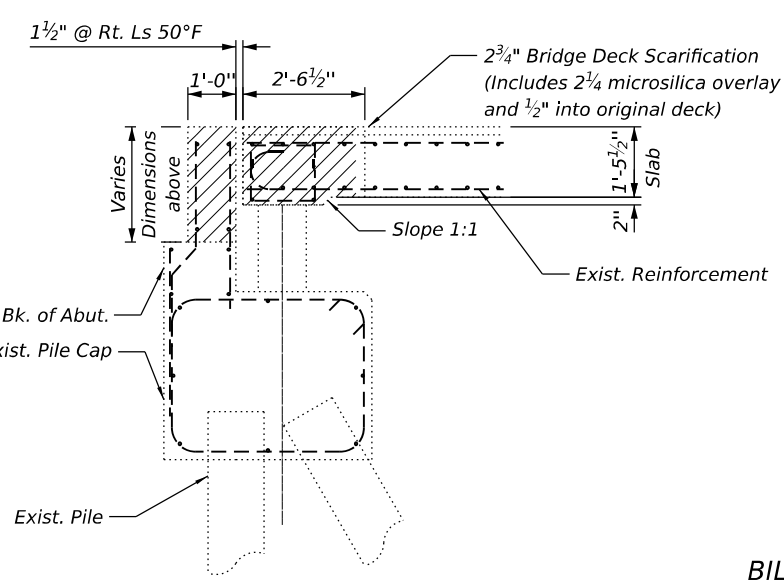
Notes:  
 South Abutment of S.N. 021-008 (S.B.) shown.  
 Piles not shown for clarity.



**EXISTING PLAN (DIMENSIONS FROM BK OF ABUTMENT)**



**SECTION A-A**



**SECTION B-B**

**BILL OF MATERIAL**

Item	Unit	Quantity
Concrete Removal	Cu. Yd.	8.8

MODEL: 013-REMOVAL DETAILS SB ABUTS SA  
 FILE NAME: C:\OneDrive\Greene & Bradford Inc\G&B - Projects\2023\23103.02 PTB 207-035 D5 W02\dgn\Structures\SN 021-0007.dgn

**GREENE & BRADFORD, INC.**  
 OF SPRINGFIELD  
 CONSULTING ENGINEERS  
 5001 GARDEN CITY DRIVE  
 SPRINGFIELD, IL 62711  
 PROFESSIONAL DESIGN FIRM NO. 181-051178  
 PROFESSIONAL LAND SURVEY FIRM NO. 042-010388  
 (217) 754-8844, 784-5271 (F)

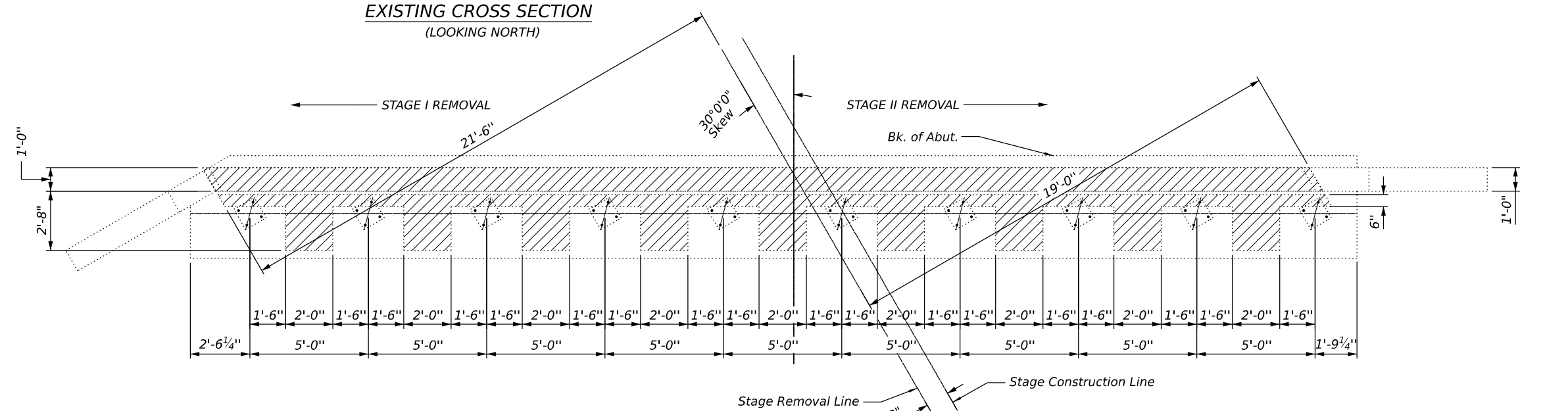
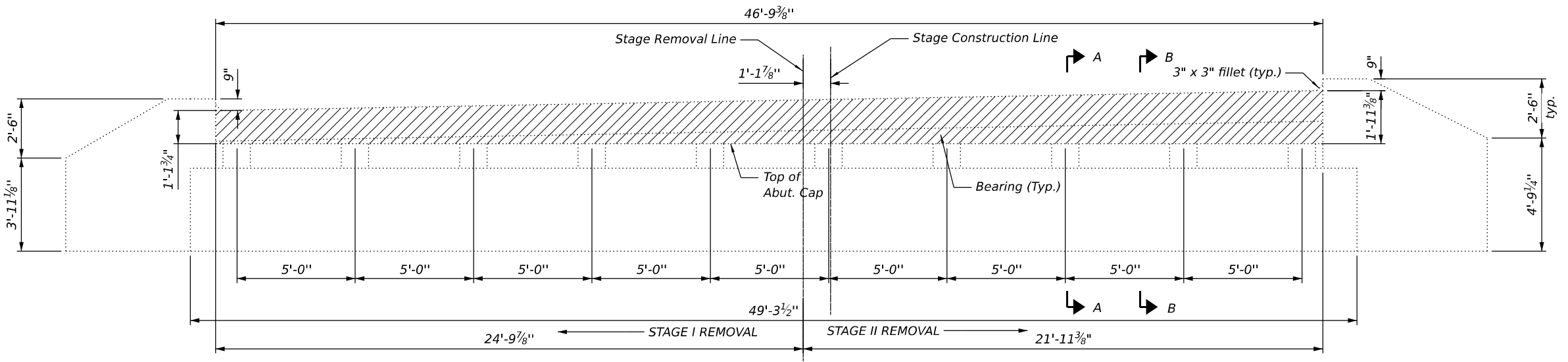
USER NAME =	SauravKC	DESIGNED -	MAC	REVISED -	
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PLOT DATE =	9/11/2024	DRAWN -	SKC	REVISED -	
		CHECKED -	KAS	REVISED -	

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

**REMOVAL DETAILS AT SOUTH ABUTMENTS**  
**S. N. 021-0008**

SHEET 16 OF 22 SHEETS

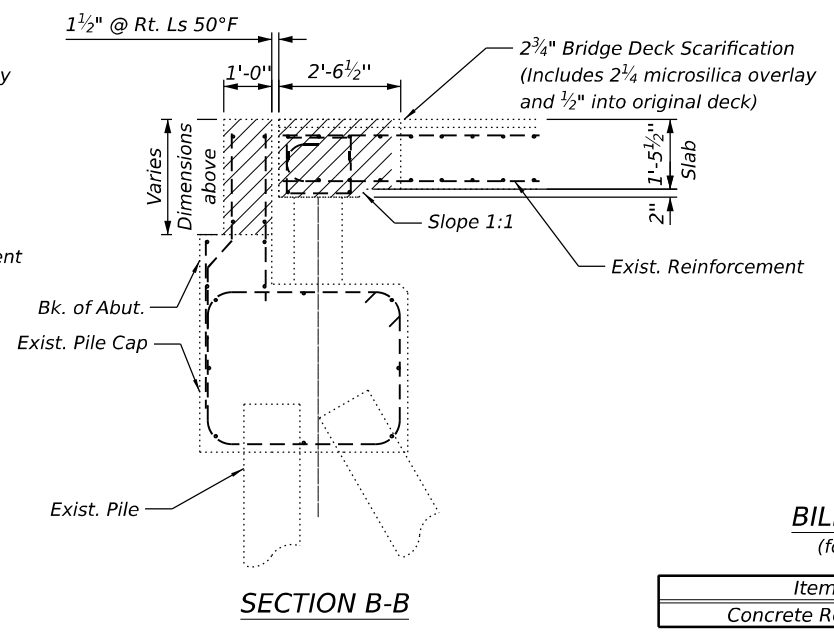
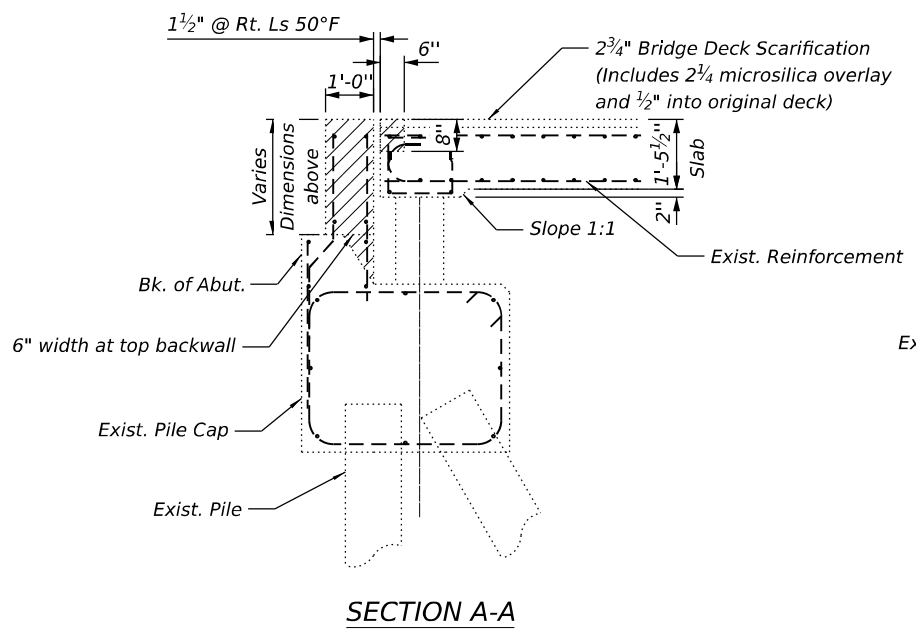
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	(21-27B-2) BR	DOUGLAS	49	37
CONTRACT NO. 70H01				
ILLINOIS FED. AID PROJECT				



**LEGEND**

Concrete Removal

Notes:  
North Abutment of S.N. 021-0008 (S.B.) shown.  
Piles not shown for clarity.



**BILL OF MATERIAL**  
(for both abutments)

Item	Unit	Quantity
Concrete Removal	Cu. Yd.	8.8

MODEL: 012-REMOVAL DETAILS SB ABUTS NA  
FILE NAME: C:\OneDrive\Greene & Bradford Inc\G38B - Projects\2023\23103.02 PTB 207-035 D5 W02\dgn\Structures\SN 021-0007.dgn

**GREENE & BRADFORD, INC.**  
OF SPRINGFIELD  
CONSULTING ENGINEERS  
3001 GARDEN CITY DRIVE  
SPRINGFIELD, IL 62771  
PROFESSIONAL DESIGN FIRM NO. 181-051178  
PROFESSIONAL LAND SURVEYING FIRM NO. 045-210388  
(217) 754-8844, 784-6227 (F)

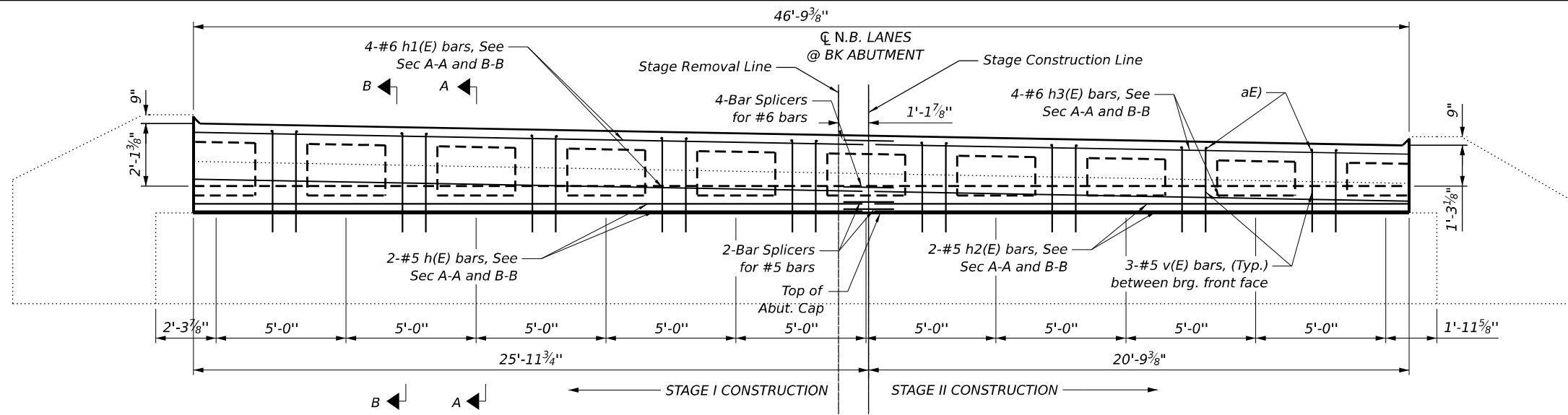
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**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

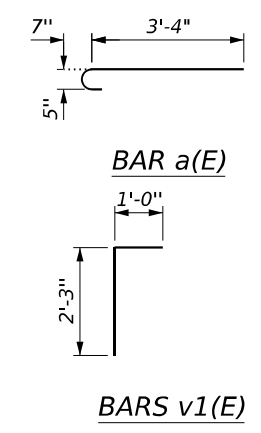
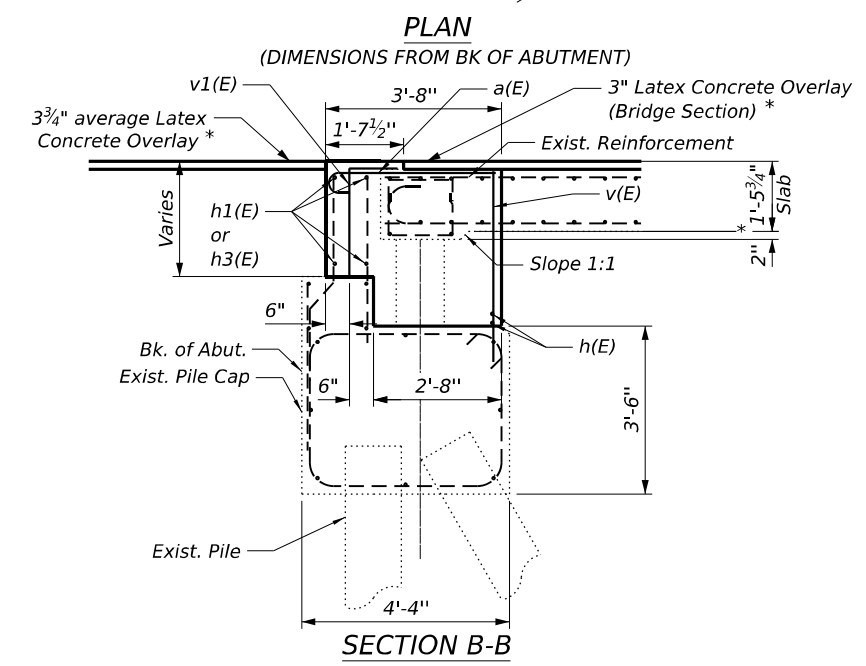
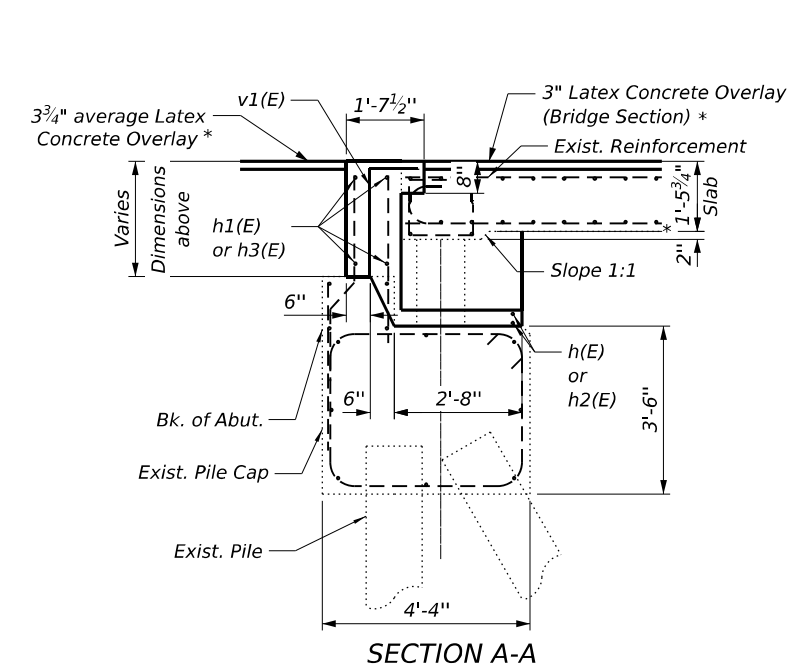
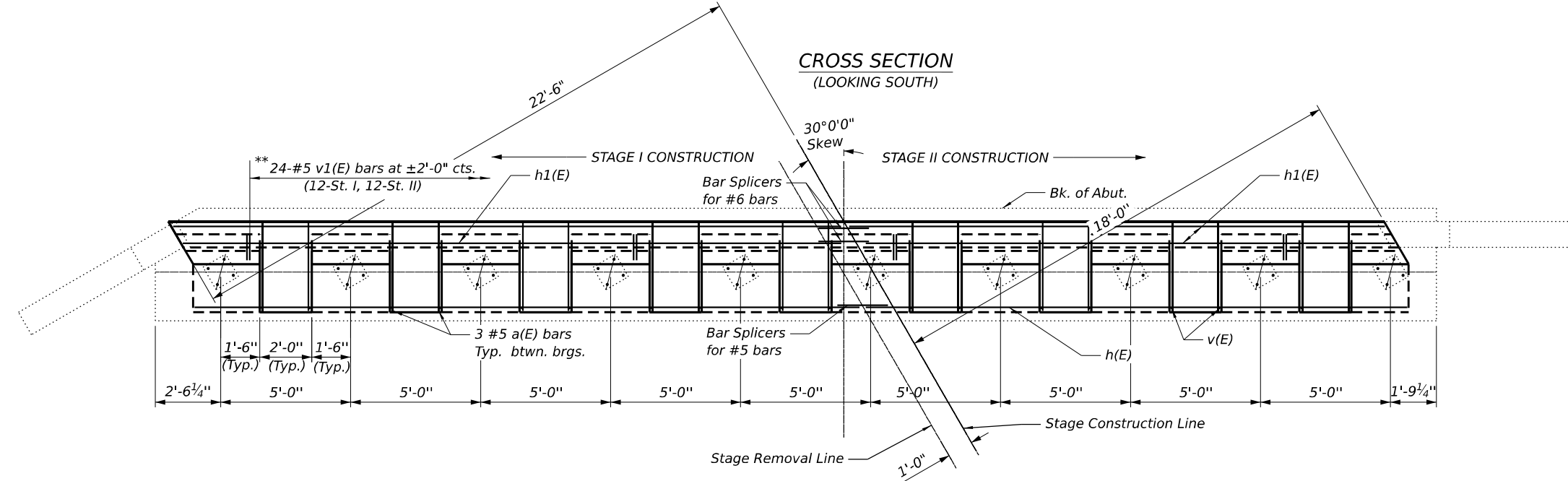
**REMOVAL DETAILS AT NORTH ABUTMENTS**  
**S. N. 021-0008**

SHEET 17 OF 22 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	(21-27B-2) BR	DOUGLAS	49	38
CONTRACT NO. 70H01				
ILLINOIS FED. AID PROJECT				



Notes:  
 South Abutment of S.N. 021-007 (N.B.) shown .  
 \* Prior to 1/4" Diamond Grinding  
 \*\* Epoxy grout v(E) and v1(E) bars in 9" min. holes according to Article 584 of the Standard Specifications.  
 Piles not shown for clarity.



**BILL OF MATERIAL**

Bar	No.	Size	Length	Shape
a(E)	27	#5	3'-11"	┌
h(E)	4	#5	23'-6"	—
h1(E)	8	#6	23'-6"	—
v(E)	28	#5	3'-9"	—
v1(E)	24	#5	3'-3"	└
Concrete Superstructure			Cu. Yd.	14.8
Reinf. Bars, Epoxy Coated			Pound	680

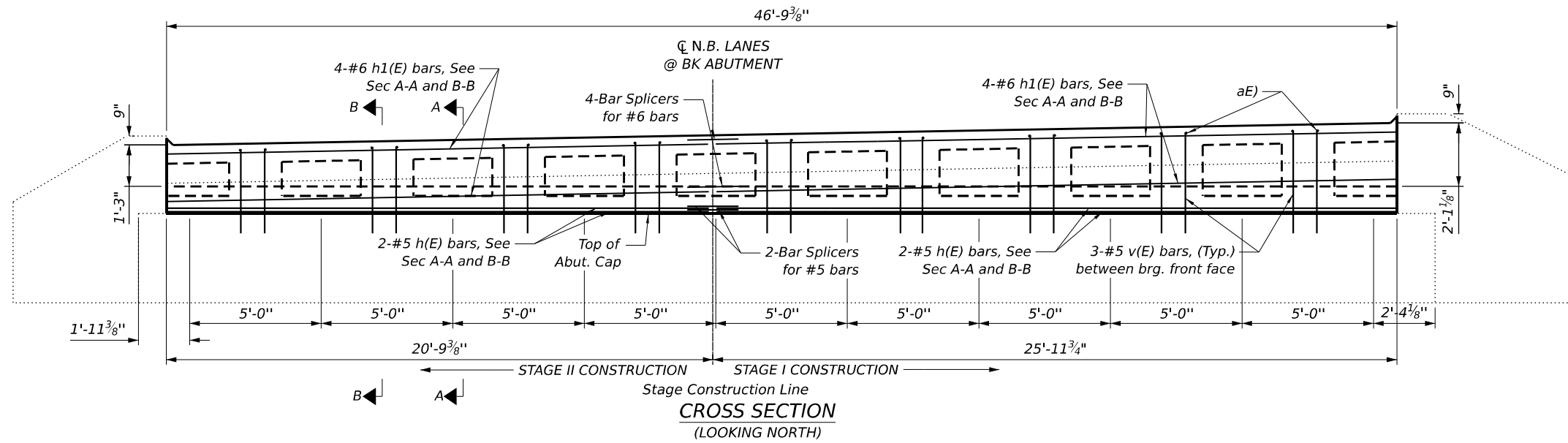
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<b>GREENE &amp; BRADFORD, INC.</b> OF SPRINGFIELD <small>CONSULTING ENGINEERS          5001 CLAYTON DRIVE          SPRINGFIELD, IL 62711          PROFESSIONAL DESIGN FIRM NO. 181-051178          PROFESSIONAL LAND SURVEYING FIRM NO. 042-020388          (217) 754-8844, 784-2271 (F)</small>	USER NAME = SauravKC	DESIGNED - MAC	REVISED -
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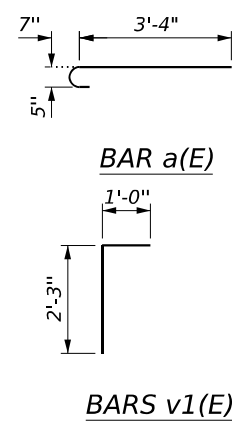
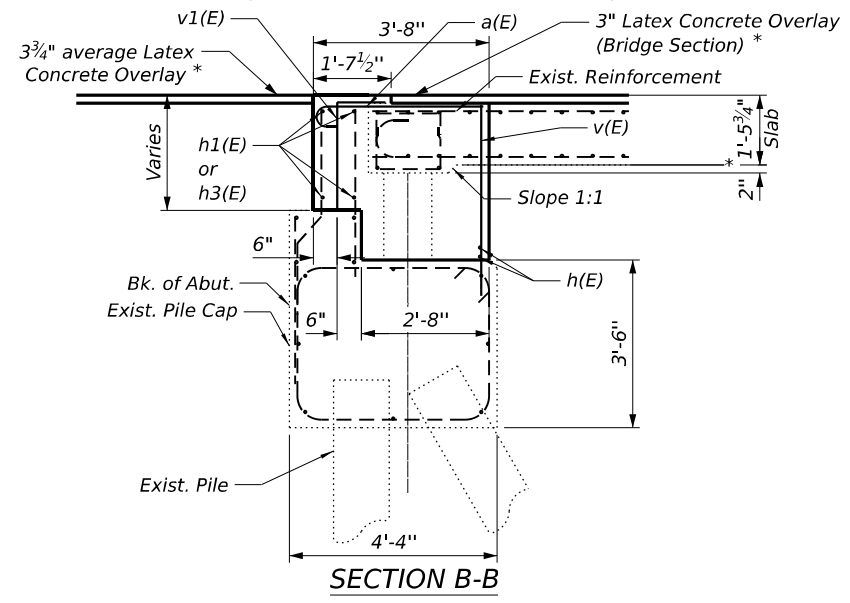
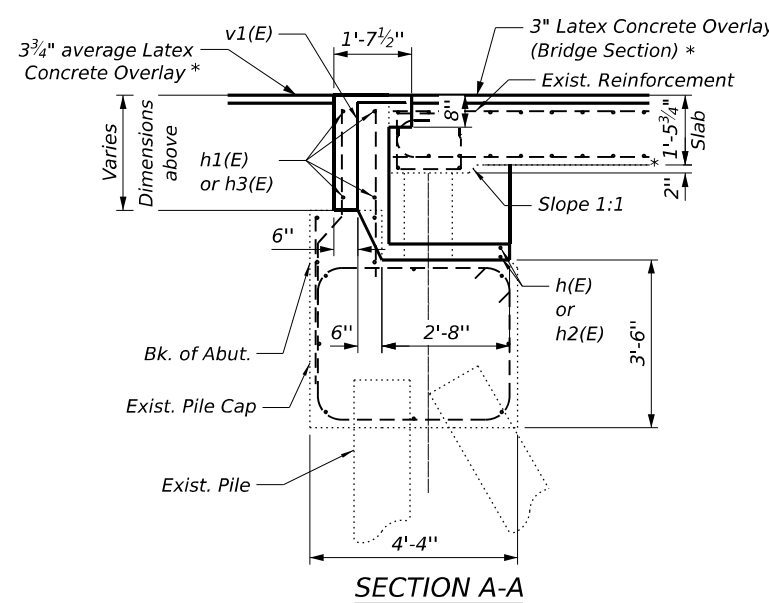
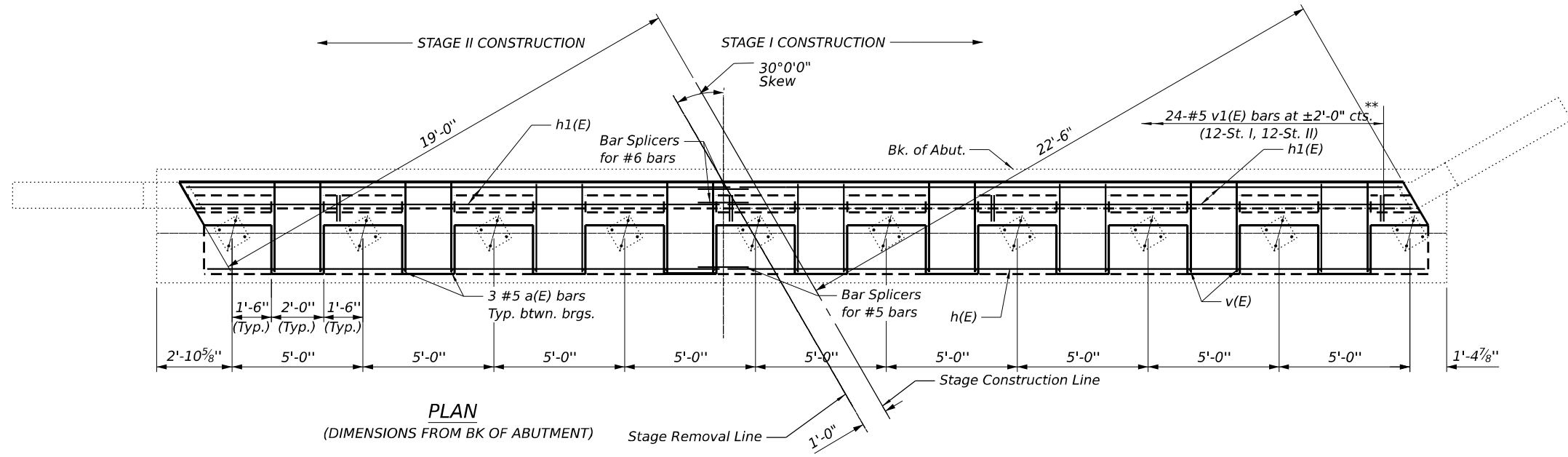
**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

**REPAIR DETAILS AT SOUTH ABUTMENTS**  
**S. N. 021-0007**  
 SHEET 18 OF 22 SHEETS

F.A.I. RTE. 57	SECTION (21-27B-2) BR	COUNTY DOUGLAS	TOTAL SHEETS 49	SHEET NO. 39
ILLINOIS FED. AID PROJECT			CONTRACT NO. 70H01	



Notes:  
 North Abutment of S.N. 021-007 (N.B.) shown .  
 \* Prior to 1/4" Diamond Grinding  
 \*\* Epoxy grout v(E) and v1(E) bars in 9" min. holes according to Article 584 of the Standard Specifications.  
 Piles not shown for clarity



**BILL OF MATERIAL**

Bar	No.	Size	Length	Shape
a(E)	27	#5	3'-11"	U
h(E)	4	#5	23'-6"	—
h1(E)	8	#6	23'-6"	—
v(E)	28	#5	3'-9"	—
v1(E)	24	#5	3'-3"	L
Concrete Superstructure			Cu. Yd.	14.8
Reinf. Bars, Epoxy Coated			Pound	680

MODEL: 015-REPAIR DETAILS SB ABUTS SA  
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 10/2/2024 5:36:42 PM

**GREENE & BRADFORD, INC.**  
 OF SPRINGFIELD  
 CONSULTING ENGINEERS  
 5001 CLAYTON DRIVE  
 SPRINGFIELD, ILLINOIS 62111  
 PROFESSIONAL DESIGN FIRM NO. 181-051178  
 PROFESSIONAL LAND SURVEYING FIRM NO. 042-020388  
 (217) 754-8844, 784-5237 (F)

USER NAME = SauravKC	DESIGNED - MAC	REVISED -
PLOT SCALE =	CHECKED - KAS	REVISED -
PLOT DATE = 10/2/2024	DRAWN - SKC	REVISED -
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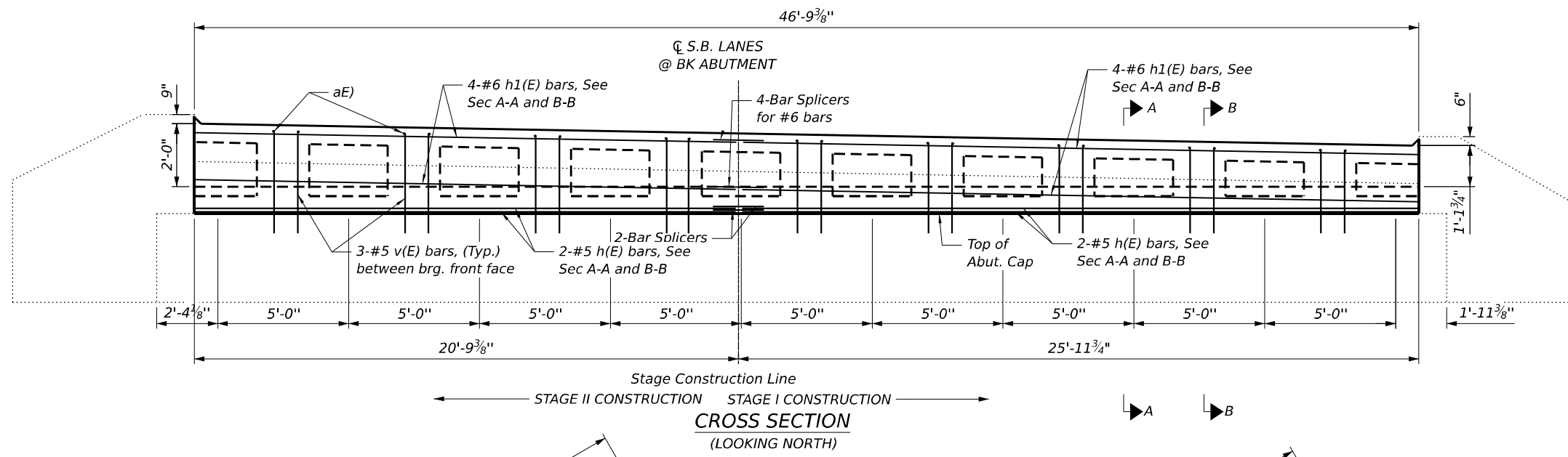
**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**REPAIR DETAILS AT NORTH ABUTMENTS  
 S. N. 021-0007**

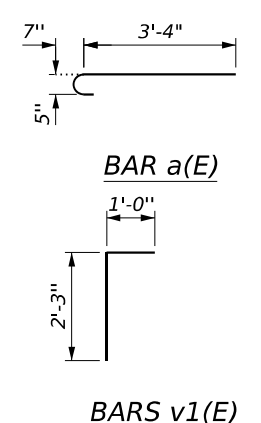
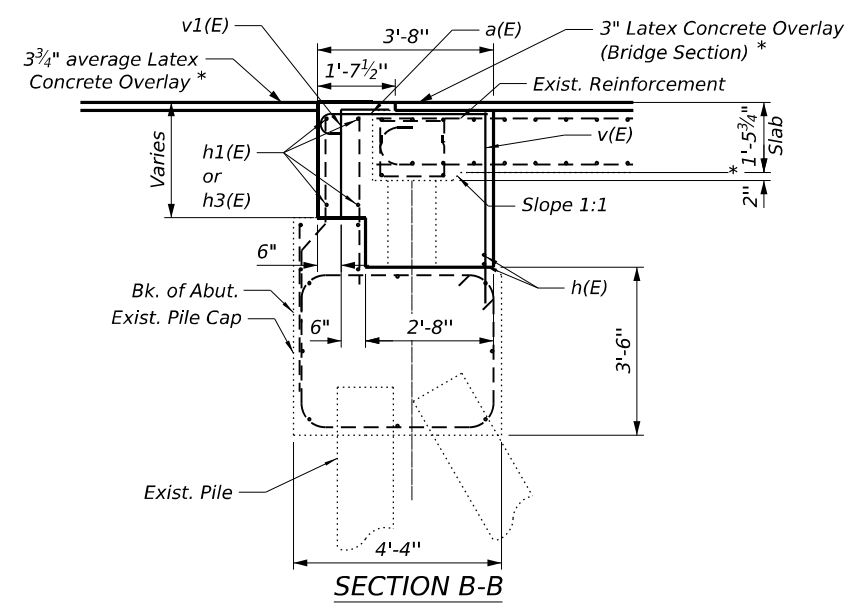
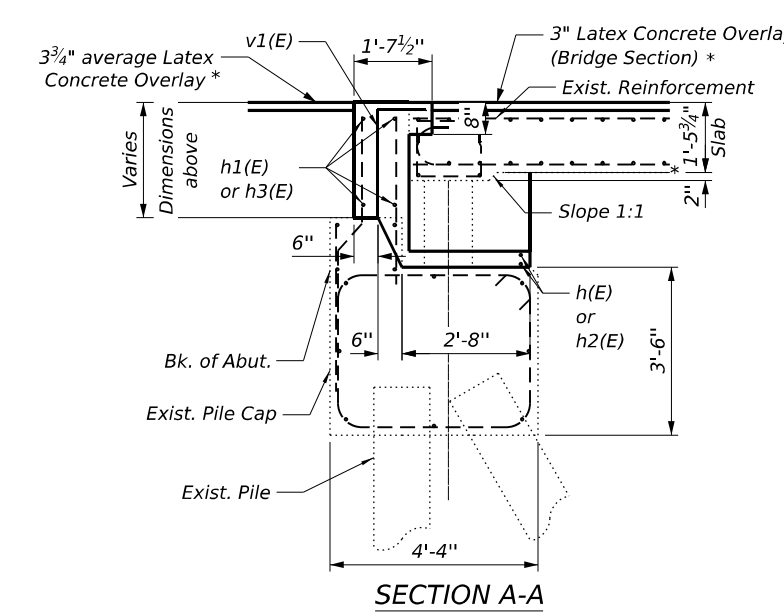
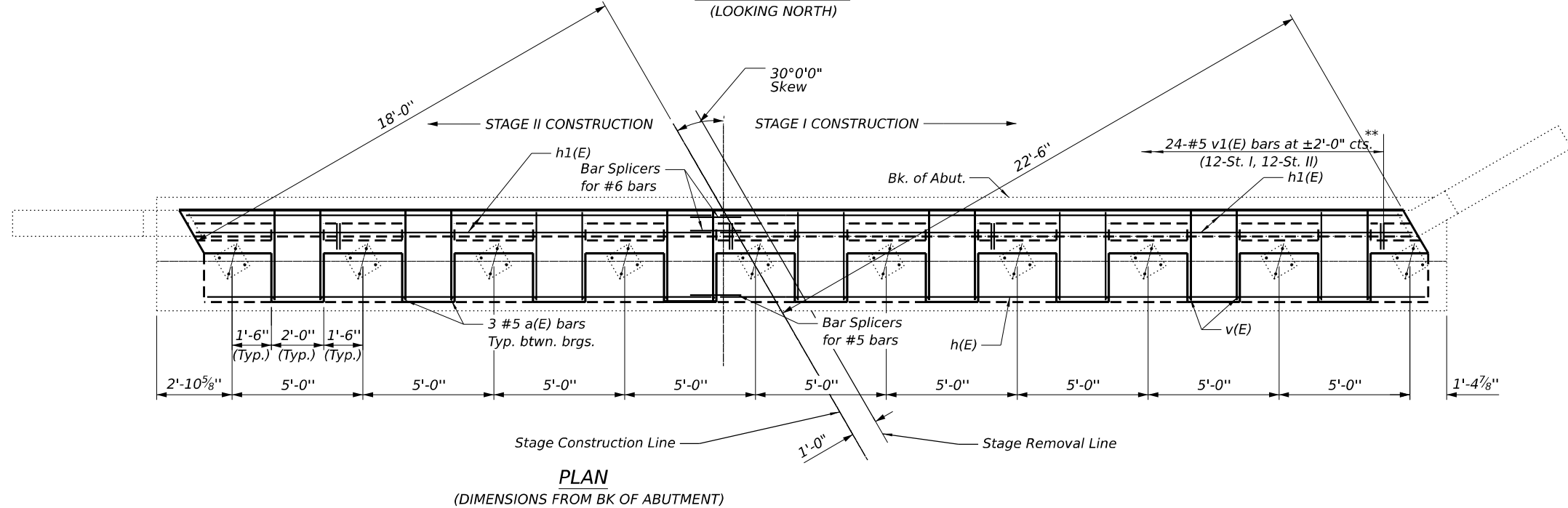
SHEET 19 OF 22 SHEETS

F.A.I. RTE. 57	SECTION (21-27B-2) BR	COUNTY DOUGLAS	TOTAL SHEETS 49	SHEET NO. 40
ILLINOIS FED. AID PROJECT			CONTRACT NO. 70H01	





Notes:  
 South Abutment of S.N. 021-0008 (S.B.) shown.  
 \* Prior to 1/4" Diamond Grinding  
 \*\* Epoxy grout v(E) and v1(E) bars in 9" min. holes according to Article 584 of the Standard Specifications.  
 Piles not shown for clarity

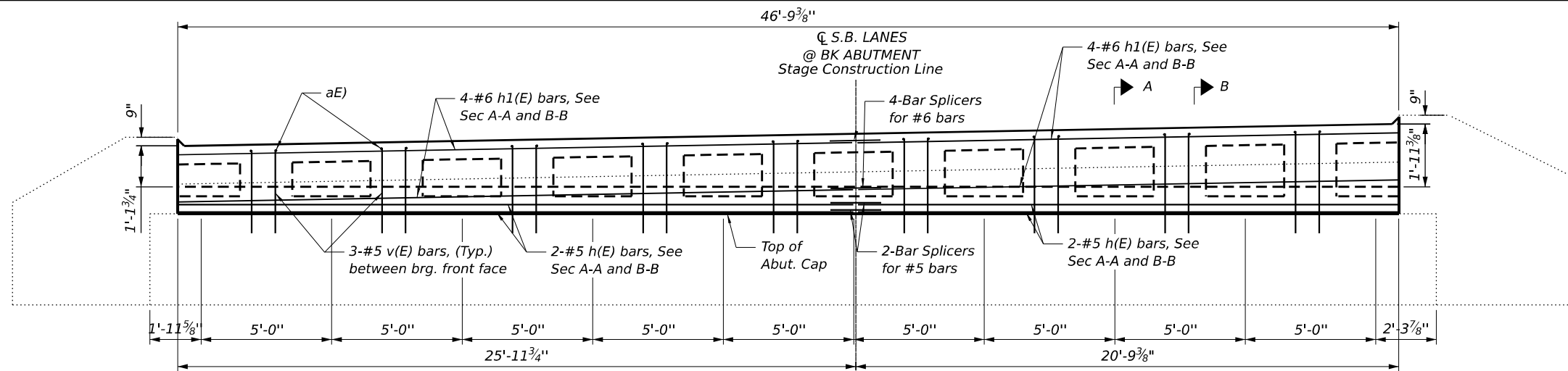


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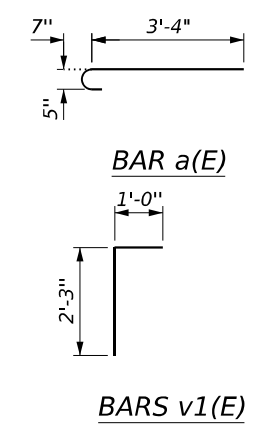
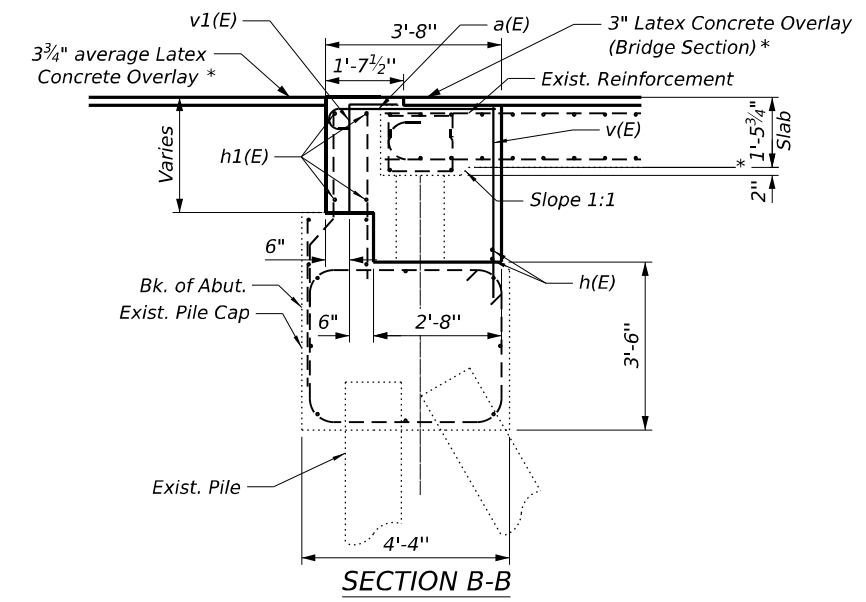
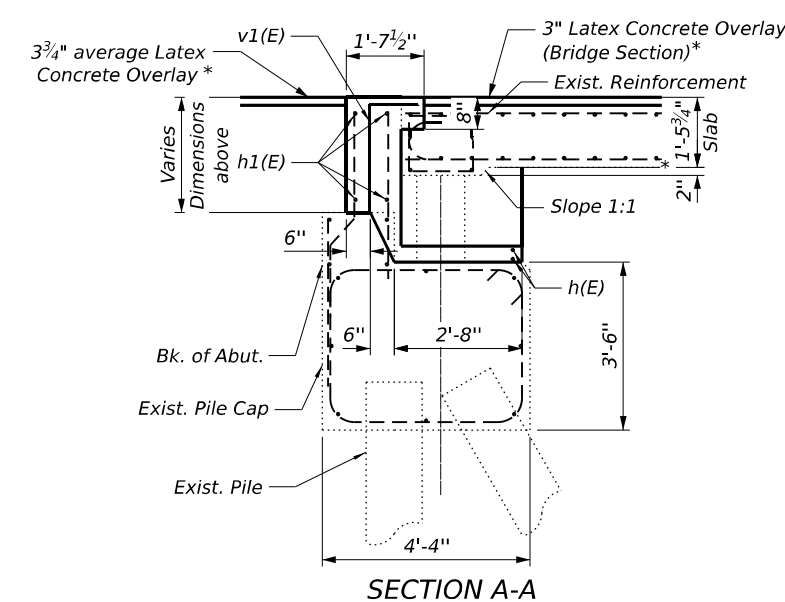
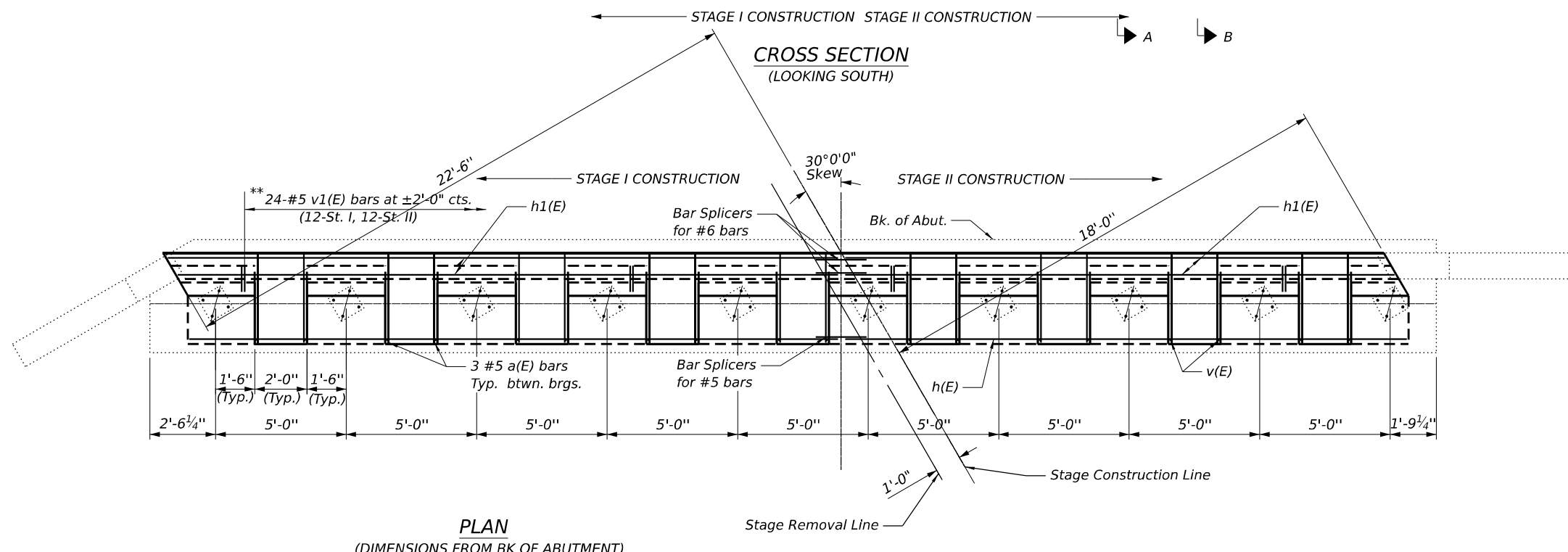
Bar	No.	Size	Length	Shape
a(E)	27	#5	3'-11"	┌
h(E)	4	#5	23'-6"	—
h1(E)	8	#6	23'-6"	—
v(E)	28	#5	3'-9"	—
v1(E)	24	#5	3'-3"	┌
Concrete Superstructure			Cu. Yd.	14.8
Reinf. Bars, Epoxy Coated			Pound	680

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	<b>GREENE &amp; BRADFORD, INC.</b> OF SPRINGFIELD <small>CONSULTING ENGINEERS          5001 CALVERT TOWER DRIVE          SPRINGFIELD, ILLINOIS 62711          PROFESSIONAL DESIGN FIRM NO. 181-051178          PROFESSIONAL LAND SURVEYING FIRM NO. 042-020388          (217) 754-8844, 784-2277 (F)</small>	USER NAME = SauravKC DESIGNED - MAC CHECKED - KAS PLOT SCALE = DRAWN - SKC PLOT DATE = 10/2/2024	REVISIONS: REVISION - REVISION - REVISION - REVISION -	<b>STATE OF ILLINOIS          DEPARTMENT OF TRANSPORTATION</b>	<b>REPAIR DETAILS AT SOUTH ABUTMENTS          S. N. 021-0008</b>	F.A.I. RTE. 57 SECTION (21-27B-2) BR COUNTY DOUGLAS TOTAL SHEETS 49 SHEET NO. 41 CONTRACT NO. 70H01	SHEET 20 OF 22 SHEETS ILLINOIS FED. AID PROJECT
	10/2/2024 5:36:51 PM						



Notes:  
 North Abutment of S.N. 021-0008 (S.B.) shown.  
 \* Prior to 1/4" Diamond Grinding  
 \*\* Epoxy grout v(E) and v1(E) bars in 9" min. holes according to Article 584 of the Standard Specifications.  
 Piles not shown for clarity.



**BILL OF MATERIAL**

Bar	No.	Size	Length	Shape
a(E)	27	#5	3'-11"	U
h(E)	4	#5	23'-6"	—
h1(E)	8	#6	23'-6"	—
v(E)	28	#5	3'-9"	—
v1(E)	24	#5	3'-3"	┌
Concrete Superstructure			Cu. Yd.	14.8
Reinf. Bars, Epoxy Coated			Pound	680

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**GREENE & BRADFORD, INC.**  
 OF SPRINGFIELD  
 CONSULTING ENGINEERS  
 5001 CLAYTON DRIVE  
 SPRINGFIELD, IL 62711  
 PROFESSIONAL DESIGN FIRM NO. 181-051178  
 PROFESSIONAL LAND SURVEYING FIRM NO. 045-20388  
 (217) 754-8844, 784-2277 (F)

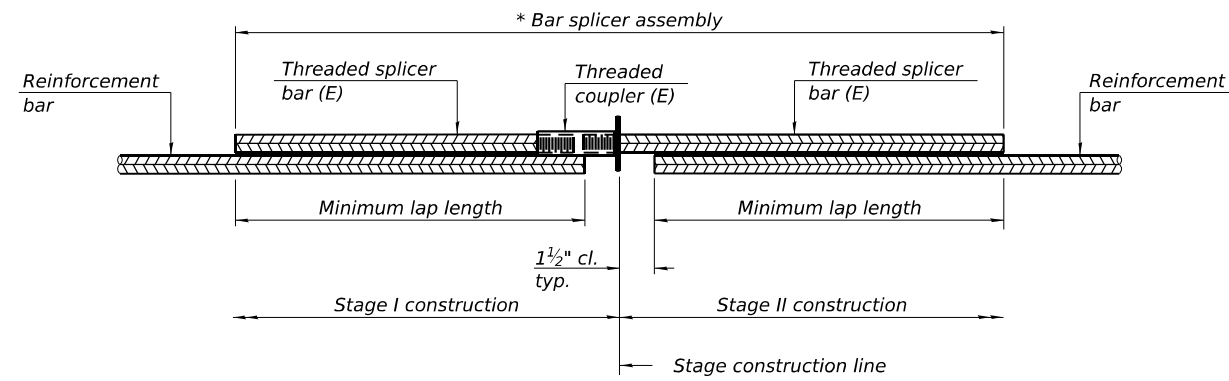
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PLOT DATE =	10/2/2024	CHECKED -	KAS	REVISED -	

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**REPAIR DETAILS AT NORTH ABUTMENTS  
 S. N. 021-0008**

SHEET 21 OF 22 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	(21-27B-2) BR	DOUGLAS	49	42
CONTRACT NO. 70H01				
ILLINOIS FED. AID PROJECT				



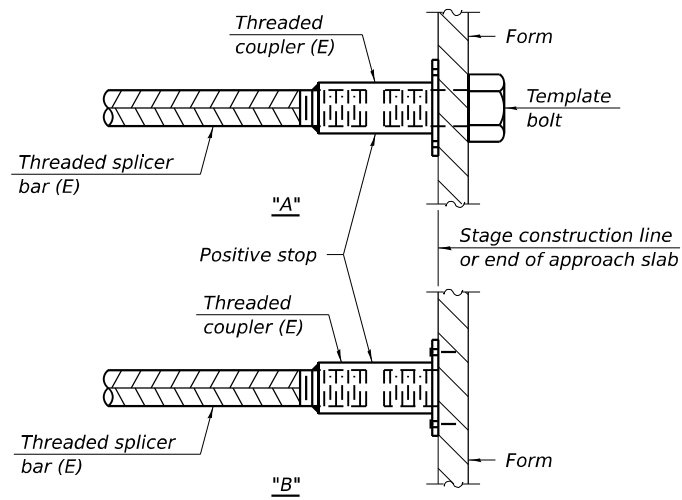
**STANDARD BAR SPLICER ASSEMBLY PLAN**

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

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

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

Location	Bar size	No. assemblies required	Minimum lap length
Hatch Block	#6	16	4'-0"
Slab	#5	8	3'-6"

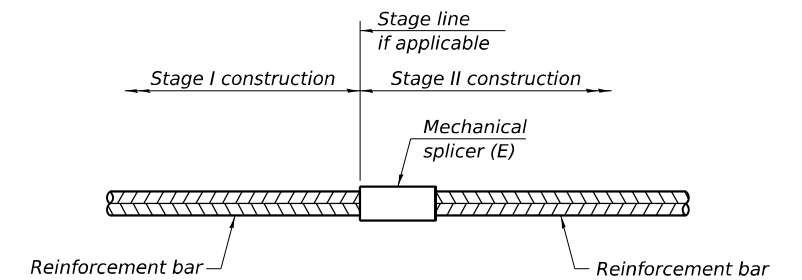


**INSTALLATION AND SETTING METHODS**

"A" : Set bar splicer assembly by means of a template bolt.

"B" : Set bar splicer assembly by nailing to wood forms or cementing to steel forms.

(E) : Indicates epoxy coating.



**STANDARD MECHANICAL SPLICER**

Location	Bar size	No. assemblies required

**Notes:**

Splicer bars shall be deformed with threaded ends and have a minimum 60 ksi yield strength.

All reinforcement shall be lapped and tied to the splicer bars.

Bar splicer assemblies shall be epoxy coated according to the requirements for reinforcement bars. See Section 508 of the Standard Specifications.

See approved list of bar splicer assemblies and mechanical splicers for alternatives.

MODEL: 018-Bar Splicers  
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BSD-1

5-15-2023



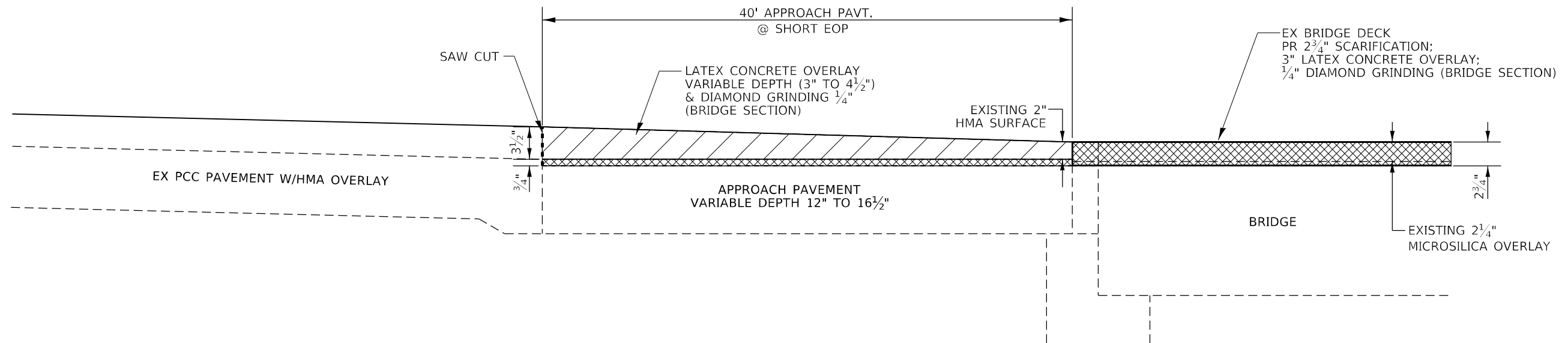
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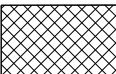
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**BAR SPLICER ASSEMBLY AND MECHANICAL SPLICER DETAILS**  
S. N. 021-0007, S. N. 021-0008

SHEET 22 OF 22 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	(21-27B-2) BR	DOUGLAS	49	43
CONTRACT NO. 70H01				
ILLINOIS FED. AID PROJECT				



-  HMA SURFACE REMOVAL, VARIABLE DEPTH
-  BRIDGE DECK SCARIFICATION

NOTE: COST OF SAW CUT SHALL BE INCLUDED IN THE COST OF HMA SURFACE REMOVAL - VARIABLE DEPTH

**THICKNESS TRANSITION ON APPROACH PAVEMENT**

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PLOT SCALE = 40,0000 * / in.	DRAWN -	REVISED -
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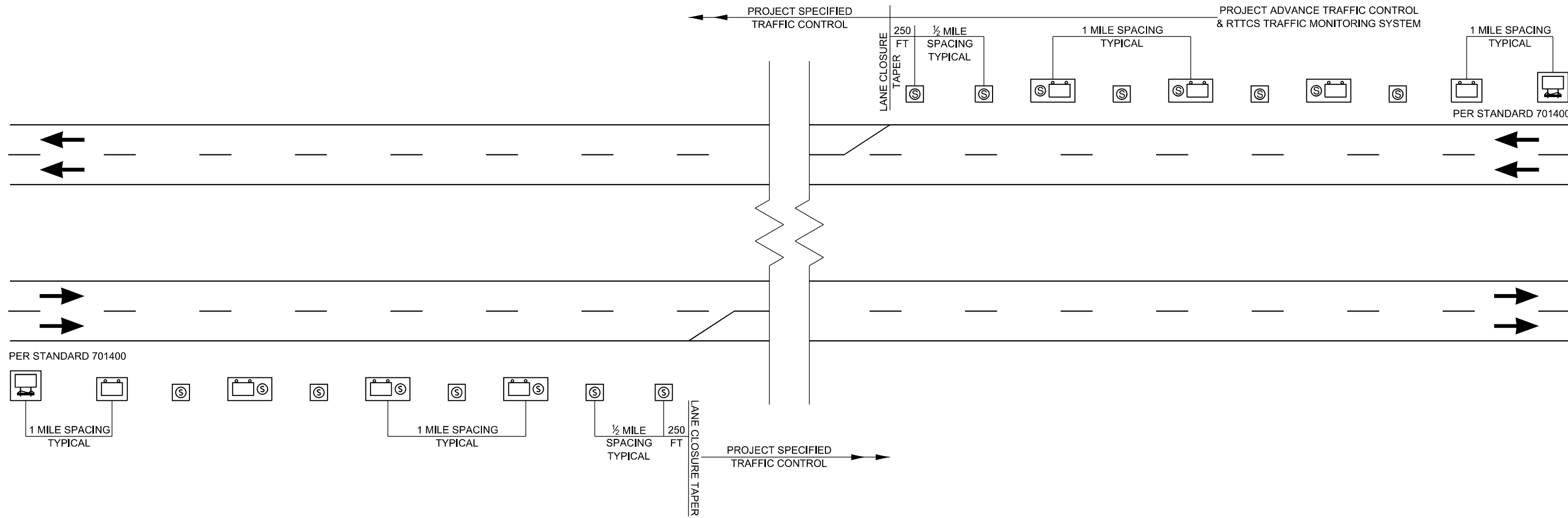
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

<b>THICKNESS TRANSITION ON APPROACH PAVEMENT</b>			
SCALE: N.T.S.	SHEET 1	OF 1 SHEETS	STA. TO STA.

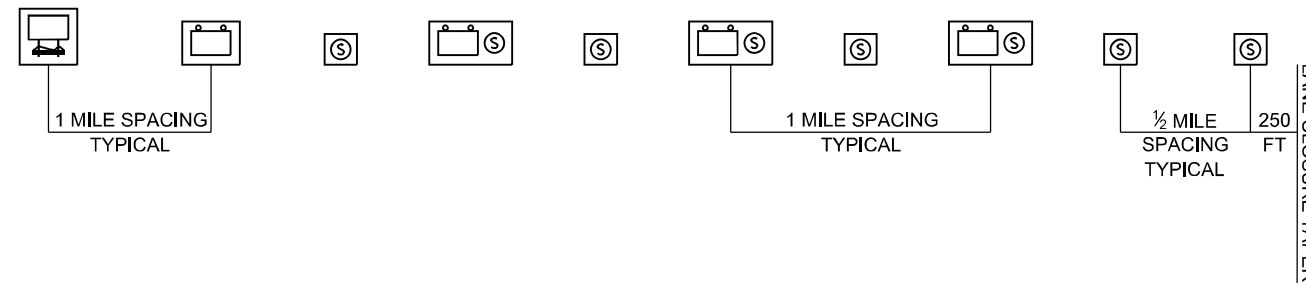
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	(21-27B-2)BR	DOUGLAS	49	44
CONTRACT NO. 70H01				
ILLINOIS FED. AID PROJECT				







PER STANDARD 701400



LEGEND	
	REAL-TIME TRAFFIC CONTROL WARNING SIGN PROJECT SIGN SHALL BE A 48" X 96" (1200MM X 2400MM) SIGN THAT SAYS: "STOPPED TRAFFIC NEXT MILE WHEN FLASHING".
	SINGLE PORTABLE CHANGEABLE MESSAGE SIGN PLACED 1 MILE IN ADVANCE OF THE REAL-TIME TRAFFIC CONTROL WARNING SIGN. IT SHALL READ: "RIGHT/LEFT LANE CLOSED // X MILES AHEAD" THIS PORTABLE CHANGEABLE MESSAGE SIGN IS INCLUDED IN STANDARD 701400
	REAL-TIME TRAFFIC MONITORING SENSOR UNIT
	STOPPED TRAFFIC NEXT MILE WHEN FLASHING

**NOTES:**

1. THE NUMBER OF REAL-TIME TRAFFIC CONTROL WARNINGS SIGNS MAY BE CHANGED AS DIRECTED BY THE ENGINEER. RELOCATION OF REAL-TIME TRAFFIC CONTROL STATIC WARNING SIGNS IS INCLUDED IN THE REAL-TIME TRAFFIC CONTROL PAY ITEMS.
2. REAL-TIME TRAFFIC CONTROL MONITORING SENSOR UNITS SPACED APPROXIMATELY EVERY 1/2 MILE AND REAL-TIME TRAFFIC CONTROL WARNING SIGNS SPACED EVERY 1 MILE OR AS DIRECTED BY THE ENGINEER.
3. THE FIRST REAL-TIME TRAFFIC MONITORING SENSORS UNIT IS TO BE PLACED 250 FOOT UPSTREAM OF THE TAPER.
4. THE SECOND REAL-TIME SPEED TRAFFIC MONITORING SENSOR UNIT IS TO BE PLACED 250 FOOT IN ADVANCE OF THE RIGHT LANE/LEFT LANE CLOSED 1/2 MILE SIGN (STD. 701400).
5. THE FIRST REAL-TIME TRAFFIC CONTROL WARNINGS SIGN SHOULD BE PLACED 500 FOOT IN ADVANCE OF THE RIGHT/LEFT LANE CLOSED 1 MILE SIGN (STD. 701400)
6. THE NUMBER OF RTTCS DEVICES MAY BE REDUCED BASED ON THE LOCATION OF THE PORTABLE CHANGEABLE MESSAGE SIGN PER (STD. 701400) AS DIRECTED BY THE ENGINEER.

Note: All dimensions are in INCHES (millimeters) unless otherwise shown.

**DISTRICT 5 DETAIL NO. X032AAAA**



USER NAME = sskinner	DESIGNED - JWS	REVISED -
	DRAWN - BRBP	REVISED -
PLOT SCALE = 40,0000 * / in.	CHECKED -	REVISED -
PLOT DATE = 8/12/2024	DATE - 04/24	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**REAL-TIME TRAFFIC CONTROL SYSTEM**

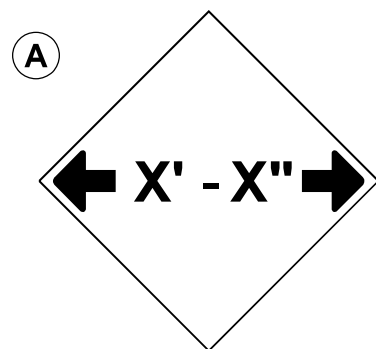
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F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	(21-27B-2)BR	DOUGLAS	49	47
			CONTRACT NO. 70H01	
ILLINOIS FED. AID PROJECT				

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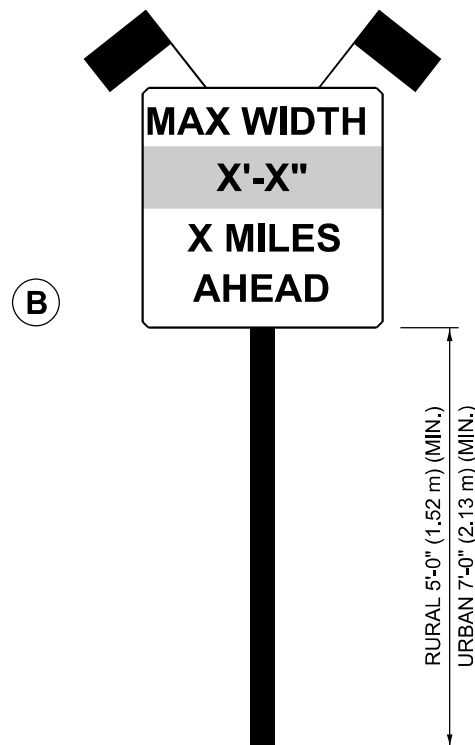




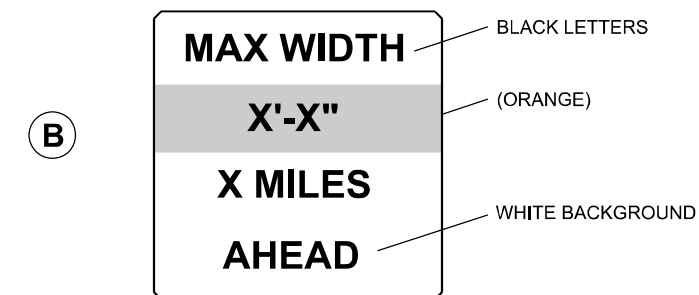
**W12-2(O)-48"x48"(1200x1200)**

SIGN (A) 2 SIGNS - W12-2(O)-48"x48"(1200x1200) ARE TO BE PLACED AS SHOWN IN THE PLANS OR AS DIRECTED BY THE ENGINEER.

SIGN (B) 2 SIGNS - (SIGN PANEL, TYPE II) AS SHOWN ARE TO BE PLACED AS SHOWN IN THE PLANS OR AS DIRECTED BY THE ENGINEER.



**SIGN PANEL, TYPE II**



**W12-I103(O)-48"x48"(1200x1200)  
"D" LETTERS/NUMBERS**

**GENERAL NOTES**

1. ALL TRAFFIC CONTROL DEVICES SHALL BE FURNISHED, ERECTED AND MAINTAINED BY THE CONTRACTOR.
2. ALL (B) SIGNS SHALL HAVE FLAGS INSTALLED UNLESS OTHERWISE DIRECTED.
3. LOCATIONS OF TRAFFIC CONTROL DEVICES MAY BE ADJUSTED BY THE ENGINEER.
4. ALL TRAFFIC CONTROL SHOWN ON THIS SHEET SHALL BE PAID FOR AT THE CONTRACT LUMP SUM PRICE FOR WIDTH RESTRICTION SIGNING.
5. ALL SIGNS SHALL BE POST MOUNTED UNLESS OTHERWISE DIRECTED.
6. ALL SIGNS SHOWN ORANGE (O) SHALL BE FLUORESCENT ORANGE.
7. ALL SIGNS SHOWN SHALL CONSIST OF THE CURRENT RETROREFLECTIVE SHEETING REQUIREMENTS AS OUTLINED IN SECTION 1106.01 OF THE STANDARD SPECIFICATIONS BOOK.

Note: All dimensions are in INCHES (millimeters) unless otherwise shown.

MODEL: Default FILE NAME: p:\subforms\p\p\documents\BFW\PROJECTS\2023\PROJECTS\3714 - IDOT DS PFB 20235\W042 157 B.fgwg 70H01\DOT\CAD\_Sheets\DS70H01-1-1-1-1-1-1.dgn



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	DRAWN -	REVISED - 10-08 KJT
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PLOT DATE = 8/12/2024	DATE -	REVISED - 03-11 KJT

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**WIDTH RESTRICTION SIGNING**

SCALE: N.T.S. SHEET 1 OF 1 SHEETS STA. TO STA.

**DISTRICT 5 DETAIL NO. X7200201**

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	(21-27B-2)BR	DOUGLAS	49	49
CONTRACT NO. 70H01			ILLINOIS FED. AID PROJECT	