

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2024-1008-BDS	VARIOUS	80	1
ILLINOIS CONTRACT NO. 62X45				

D-91-030-25

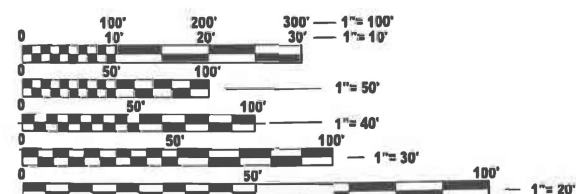
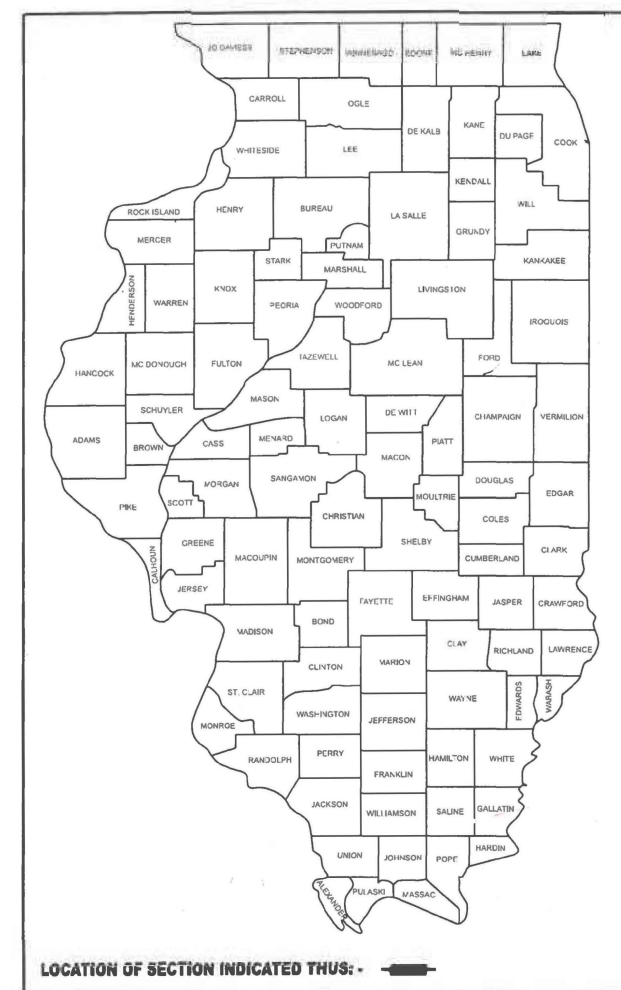
FOR INDEX OF SHEETS, SEE SHEET NO. 2

PROPOSED HIGHWAY PLANS

VARIOUS ROUTES
VARIOUS LOCATIONS - DISTRICT WIDE
SECTION: 2024-1008-BDS
BRIDGE DECK SEALING
COOK, KANE AND KENDALL COUNTIES

C-91-034-25

**SEE LOCATION MAPS ON
SHEETS 5-14**



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

PROJECT ENGINEER: DANIEL WILGREEN, P.E. (847)-705-4240
PROJECT MANAGER: J. ALAIN MIDY, P.E. (847)-221-3063

CONTRACT NO. 62X45

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUBMITTED May 9th 2025
IR

REGIONAL ENGINEER

June 27, 2025
See EA Etc
 ENGINEER OF DESIGN AND ENVIRONMENT

June 27, 2025
Cherry
 DIRECTOR OF HIGHWAYS PROJECT IMPLEMENTATION

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

INDEX OF SHEETS

STATE STANDARDS

GENERAL NOTES

SHEET NO.	DESCRIPTION	STANDARD NO.	DESCRIPTION
1	COVER SHEET	701201-05	LANE CLOSURE, 2L 2W, DAY ONLY, FOR SPEEDS ≥ 45 MPH
2	INDEX OF SHEETS. STATE STANDARDS,AND GENERAL NOTES	701411-09	LANE CLOSURE, MULTILANE, AT ENTRANCE OR EXIT RAMP, FOR SPEEDS ≥ 45 MPH
3	SUMMARY OF QUANTITIES	701421-08	LANE CLOSURE, MULTILANE, DAY OPERATIONS ONLY, FOR SPEEDS ≥ 45 MPH TO 55 MPH
4	SCHEDULE OF QUANTITES	701501-06	URBAN LANE CLOSURE, 2L, 2W, UNDIVIDED
5 - 14	LOCATION MAPS	701502-09	URBAN LANE CLOSURE, 2L, 2W WITH BIDIRECTIONAL LEFT TURN LANE
15 - 76	EXISTING STRUCTURAL PLANS	701601-09	URBAN LANE CLOSURE, MULTILANE, 1W OR 2W WITH NONTRAVERSABLE MEDIAN
77	ENTRANCE AND EXIT RAMP CLOSURE DETAILS (TC-08)	701602-10	URBAN LANE CLOSURE, MULTILANE, 2W WITH BIDIRECTIONAL LEFT TURN LANE
78	TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS (TC-10)	701606-10	URBAN SINGLE LANE CLOSURE, MULTILANE, 2W WITH MOUNTABLE MEDIAN
79	DISTRICT ONE TYPICAL PAVEMENT MARKINGS (TC-13)	701611-01	URBAN HALF ROAD CLOSURE, MULTILANE, 2W WITH MOUNTABLE MEDIAN
80	TRAFFIC CONTROL AND PROTECTION AT TURN BAYS (TO REMAIN OPEN TO TRAFFIC) (TC-14)	701701-10	URBAN LANE CLOSURE, MULTILANE INTERSECTION
		701801-06	SIDEWALK, CORNER OR CROSSWALK CLOSURE
		701901-10	TRAFFIC CONTROL DEVICES

1. BEFORE STARTING ANY EXCAVATION , THE CONTRACTOR SHALL CALL "J.U.L.I.E." AT (800) 892-0123 OR 811 FOR FIELD LOCATIONS OF BURIED ELECTRIC, TELEPHONE AND GAS UTILITES. 48 HOUR NOTIFICATION IS REQUIRED.
2. THE CONTRACTOR SHALL COORDINATE CONSTRUCTION ACTIVITES WITH UTILITY COMPANIES AND THE CITIES / VILLAGES OF ELGIN, STREAMWOOD, SOUTH ELGIN, SUGAR GROVE, BIG ROCK MONTGOMERY, ST. CHARLES, GENEVA, HAMPSHIRE, NORTH AURORA, BATAVIA, GILBERTS, AND OSWEGO.
3. THE CONTRACTOR WILL NOT BE ALLOWED TO SET UP A YARD OR FIELD OFFICE ON STATE PROPERTY WITHOUT WRITTEN PERMISSION FROM THE DEPARTMENT.
4. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY ALL DIMENSIONS AND CONDITIONS EXISTING IN THE FIELD PRIOR TO CONSTRUCTION AND ORDERING OF MATERIALS.
5. THE CONTRACTOR SHALL CONTACT THE DISTRICT TRAFFIC CONTROL SUPERVISOR AT KALPANA.KANNAN-HOSADURGA@ILLINOIS.GOV A MINIMUM OF 72 HOURS IN ADVANCE OF BEGINNING WORK.
6. THESE PLANS HAVE BEEN PREPARED FROM NOTES RECEIVED FROM THE BUREAU OF MAINTENANCE.
7. THE CONTRACTOR SHALL BE REQUIRED TO PROVIDE ACCESS TO ABUTTING PROPERTY AT ALL TIMES DURING THE CONSTRUCTION OF THIS PROJECT.
8. DO NOT SCALE PLANS FOR CONSTRUCTION DIMENSIONS.
9. THE CONTRACTOR SHALL TAKE NECESSARY PRECAUTIONS TO INSURE THAT NO DEBRIS WILL ENDANGER OR INTERFERE WITH TRAFFIC ON THE ROADWAY BENEATH THE BRIDGE ACCORDING TO ARTICLE 107.09 OF THE STANDARD SPECIFICATIONS. THIS WORK WILL NOT BE PAID FOR SEPERATELY, BUT SHALL BE INLCUED IN THE CONTRACT UNIT PRICE FOR THE APPROPRIATE PAY ITEM INVOLVED AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED.

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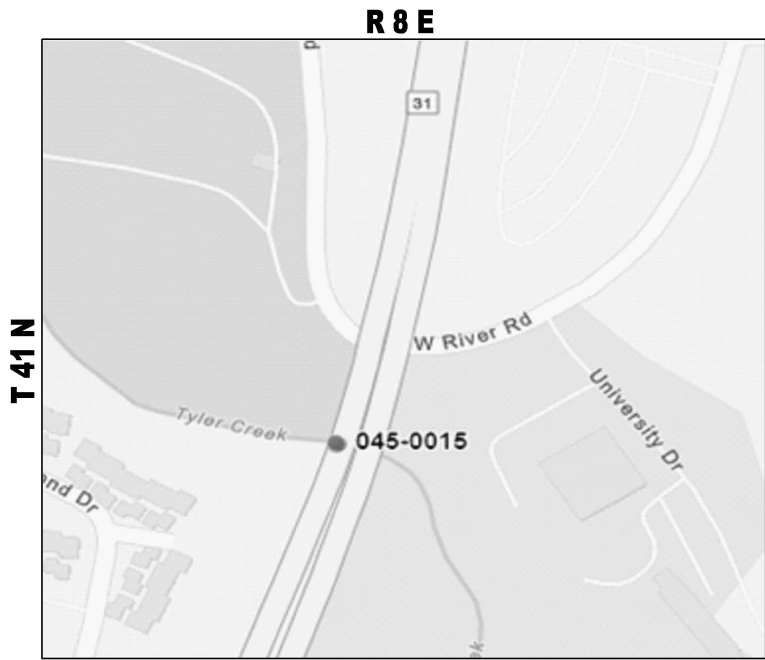
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	PLOT DATE = 5/31/2025	DATE -	REVISED -		SCALE:	SHEET	OF 1 SHEETS	STA.	TO STA.	ILLINOIS FED. AID PROJECT		

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LOCATION NUMBER	STRUCTURE NUMBER	BRIDGE DECK CONCRETE SEALER (SQ FT)	COUNTY	TRAFFIC CONTROL AND PROTECTION, STANDARD										
				TC-08	701201	701411	701421	701501	701502	701601	701602	701606	701611	701701
1	016-2640	4,055	COOK					X	X					X
2	016-2671	3,871	COOK								X			
3	016-2606	12,504	COOK								X			
4	016-2700	7,334	COOK								X			
5	045-0009	17,173	KANE		X									
6	045-0015	3,040	KANE							X				X
7	045-0016	16,452	KANE										X	
8	045-0018	7,822	KANE		X									
9	045-0020	2,313	KANE										X	
10	045-0024	8,262	KANE		X									
11	045-0026	3,210	KANE							X				
12	045-0027	3,210	KANE							X				
13	045-0034	2,376	KANE		X									
14	045-0035	8,471	KANE			X								
15	045-0036	11,574	KANE	X		X	X							
16	045-0037	37,575	KANE			X				X				
17	045-0039	58,500	KANE	X			X							
18	045-0045	2,898	KANE		X									
19	045-0046	17,940	KANE										X	
20	045-0053	2,300	KANE		X									
21	045-0054	21,380	KANE					X						
22	045-0055	2,492	KANE					X						
23	045-0061	6,641	KANE		X									
24	045-0077	66,437	KANE							X				
25	045-0078	3,398	KANE		X									
26	045-0079	38,290	KANE							X				
27	045-0329	20,803	KANE									X	X	
28	045-0333	5,625	KANE					X	X					
29	045-2004	831	KANE		X									
30	045-2005	7,734	KANE		X									
31	045-2006	6,160	KANE		X									
32	045-2023	8,089	KANE		X									
33	045-2024	8,887	KANE					X						
34	045-2025	2,468	KANE		X									
35	045-2031	8,570	KANE		X									
36	045-2032	15,159	KANE		X					X				X
37	045-2033	2,540	KANE			X				X				X
38	045-2035	4,685	KANE							X				X
39	045-5000	803	KANE									X	X	X
40	045-9901	17,168	KANE					X	X					
41	047-0029	5,197	KENDALL						X					X
42	047-0030	9,152	KENDALL							X				
43	047-0031	7,776	KENDALL							X				
44	047-0301	6,643	KENDALL							X				
TOTAL		507,808												

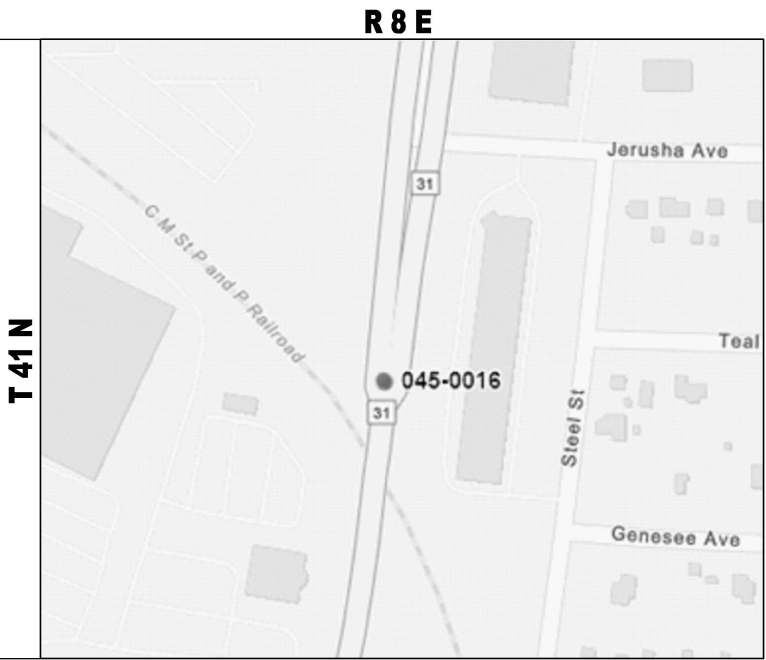
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PLOT DATE = 5/15/2025				DATE -	REVIS	ED -		SCALE:	SHEET	OF 2	SHEETS	STA.	TO STA.	ILLINOIS FED. AID PROJECT		



**LOCATION 6: SN 045-0015
IL-31 OVER TYLER CREEK
CITY OF ELGIN
ELGIN TOWNSHIP
KANE COUNTY**

TRAFFIC DATA
IL-31
ADT: = 21,000 (2023)
SPEED LIMIT = 45 MPH

LOCATION 6



**LOCATION 7: SN 045-0016
IL-31 OVER RR-METRA
CITY OF ELGIN
ELGIN TOWNSHIP
KANE COUNTY**

TRAFFIC DATA
IL-31
ADT: = 21,000 (2023)
SPEED LIMIT = 35 MPH

LOCATION 7



**LOCATION 8: SN 045-0018
IL-31 OVER RR-CN
VILLAGE OF SOUTH ELGIN
ST. CHARLES TOWNSHIP
KANE COUNTY**

TRAFFIC DATA
IL-31
ADT: = 6,250 (2023)
SPEED LIMIT = 45 MPH

LOCATION 8



**LOCATION 9: SN 045-0020
IL-31 OVER MILL CREEK
BATAVIA TOWNSHIP
KANE COUNTY**

TRAFFIC DATA
IL-31
ADT: = 21,500 (2023)
SPEED LIMIT = 45 MPH

LOCATION 9

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		CHECKED -	REVISED -		CONTRACT NO. 62X45							
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R 7 E

T 38 N



LOCATION 10

LOCATION 10: SN 045-0024
IL-47 OVER BLACKBERRY CREEK
VILLAGE OF SUGAR GROVE
SUGAR GROVE TOWNSHIP
KANE COUNTY

TRAFFIC DATA

IL-47

ADT: = 9,300 (2023)

SPEED LIMIT = 55 MPH

R 7 E

T 38 N



LOCATIONS 11 & 12

LOCATION 11: SN 045-0026
IL-56 EB OVER BLACKBERRY CREEK
SUGAR GROVE TOWNSHIP
KANE COUNTY

LOCATION 12: SN 045-0027
IL-56 WB OVER BLACKBERRY CREEK
SUGAR GROVE TOWNSHIP
KANE COUNTY

TRAFFIC DATA

IL-56

ADT: = 14,800 (2023)

SPEED LIMIT = 55 MPH

R 6 E

T 38 N



LOCATION 13

LOCATION 13: SN 045-0034
US-30 OVER WELCH CREEK
VILLAGE OF BIG ROCK
BIG ROCK TOWNSHIP
KANE COUNTY

TRAFFIC DATA

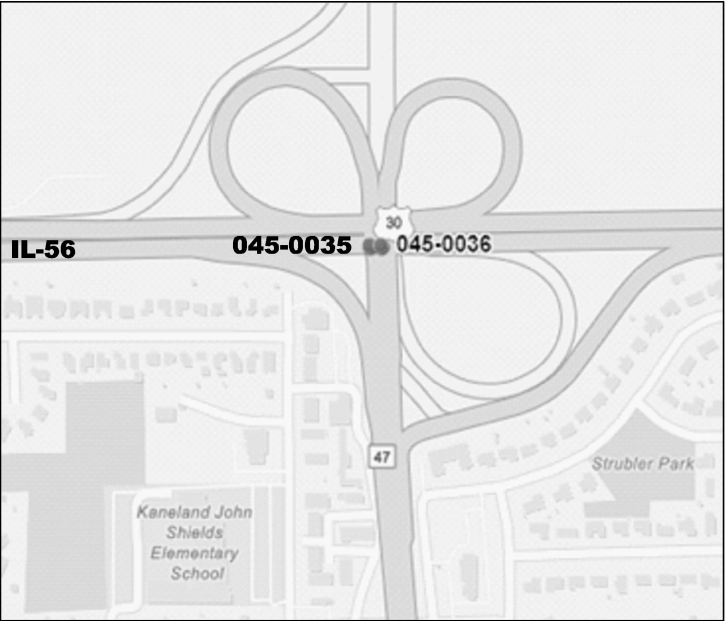
US-30

ADT: = 4,950 (2023)

SPEED LIMIT = 55 MPH

R 7 E

T 38 N



LOCATIONS 14 & 15

LOCATION 14: SN 045-0035
IL-56 EB OVER IL-47
VILLAGE OF SUGAR GROVE
SUGAR GROVE TOWNSHIP
KANE COUNTY

LOCATION 15: SN 045-0036
IL-56 WB OVER IL-47
VILLAGE OF SUGAR GROVE
SUGAR GROVE TOWNSHIP
KANE COUNTY

TRAFFIC DATA

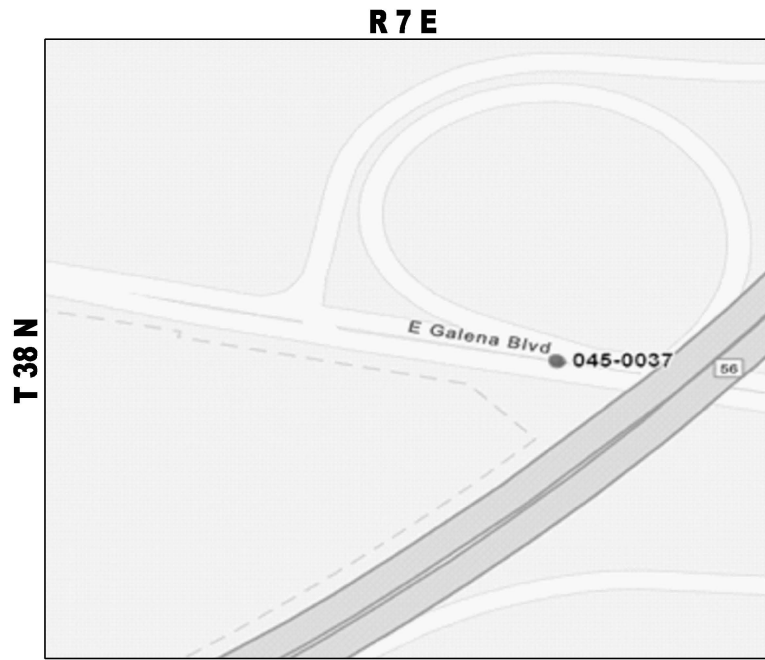
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ADT: = 21,500 (2023)

SPEED LIMIT = 45 MPH

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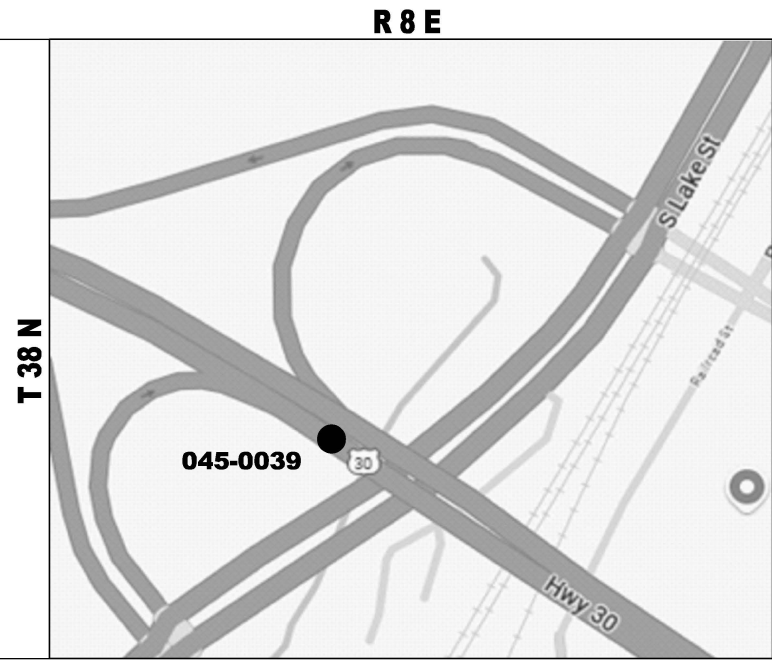
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	PLOT DATE = 5/15/2025	CHECKED -	REVISED -		SCALE:	SHEET	OF 10 SHEETS	CONTRACT NO. 62X45				
		DATE -	REVISED -		STA. 0+00.00 TO STA. 0+00.00			ILLINOIS FED. AID PROJECT				



**LOCATION 16: SN 045-0037
GALENA BLVD WEST OVER IL-56
VILLAGE OF SUGAR GROVE
SUGAR GROVE TOWNSHIP
KANE COUNTY**

TRAFFIC DATA
GALENA BLVD
ADT: = 950 (2023)
SPEED LIMIT = 30 MPH

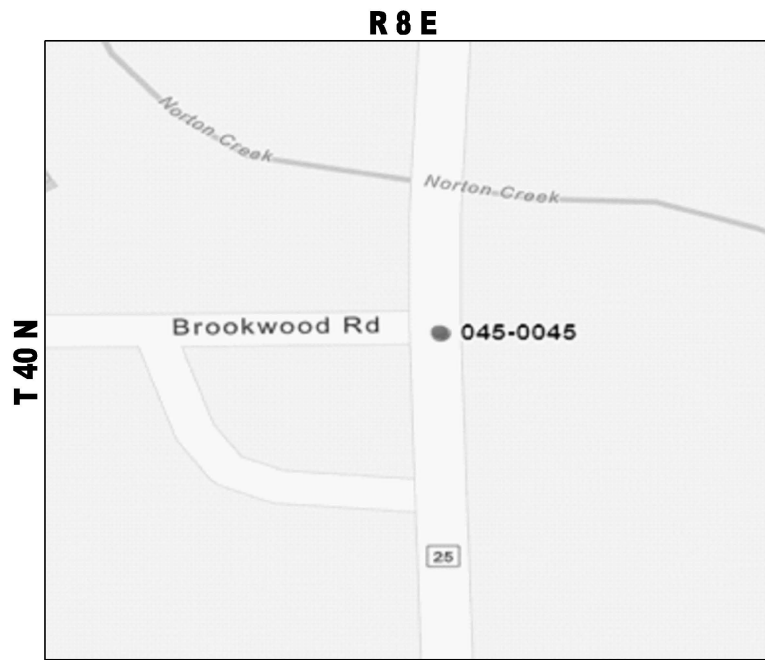
LOCATION 16



**LOCATION 17: SN 045-0039
US-30 OVER IL-31 & BNSF RR
VILLAGE OF MONTGOMERY
AURORA TOWNSHIP
KANE COUNTY**

TRAFFIC DATA
US-30
ADT: = 31,600 (2023)
SPEED LIMIT = 45 MPH

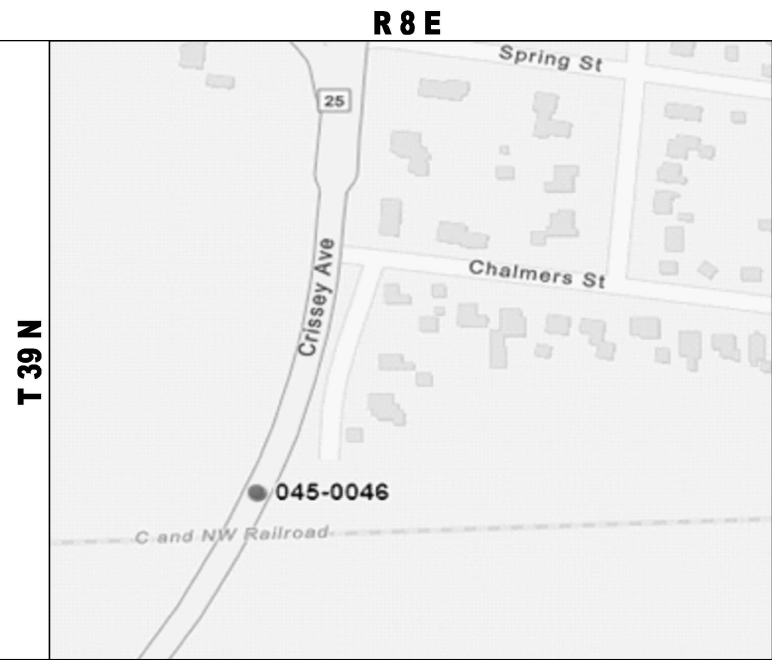
LOCATION 17



**LOCATION 18: SN 045-0045
IL-25 OVER NORTON CREEK
CITY OF ST. CHARLES
ST. CHARLES TOWNSHIP
KANE COUNTY**

TRAFFIC DATA
IL-25
ADT: = 9,600 (2023)
SPEED LIMIT = 45 MPH

LOCATION 18



**LOCATION 19: SN 045-0046
IL-25 OVER RR-UP
CITY OF GENEVA
GENEVA TOWNSHIP
KANE COUNTY**

TRAFFIC DATA
IL-25
ADT: = 6,550 (2023)
SPEED LIMIT = 30 MPH

LOCATION 19

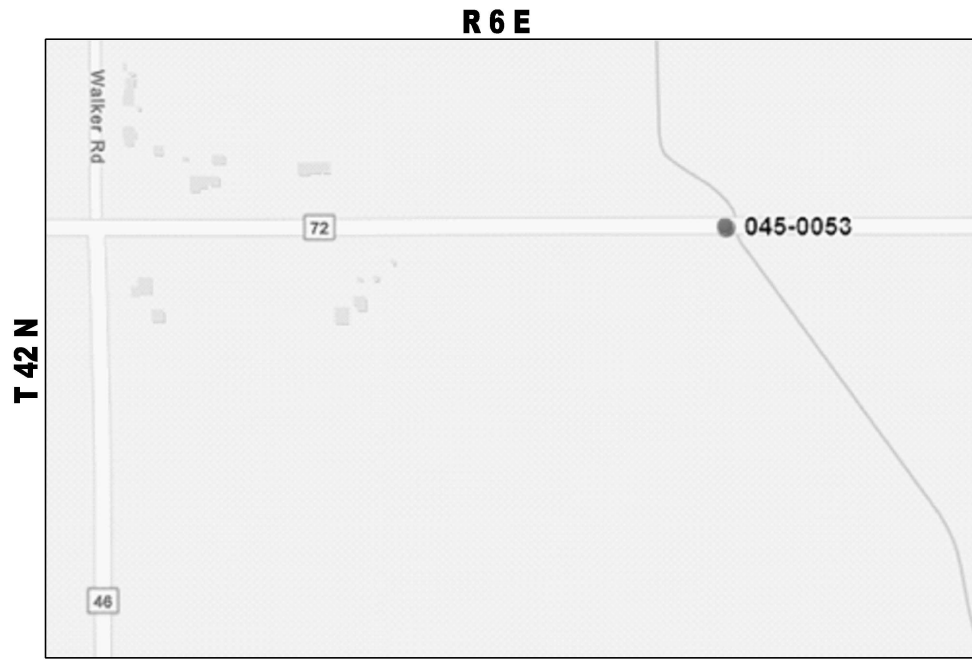
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	DRAWN -	REVISED -
	CHECKED -	REVISED -
PLOT DATE = 5/15/2025	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

LOCATION MAP			
SCALE:	SHEET	OF 10 SHEETS	TO STA. 0+00.00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2024-1008-BDS	VARIOUS	80	8
CONTRACT NO. 62X45				
ILLINOIS FED. AID PROJECT				



**LOCATION 20: SN 045-0053
IL-72 OVER COON CREEK
VILLAGE OF HAMPSHIRE
HAMPSHIRE TOWNSHIP
KANE COUNTY**

TRAFFIC DATA

IL-72

ADT: = 6,650 (2023)

SPEED LIMIT = 55 MPH

LOCATION 20

**LOCATION 21: SN 045-0054
IL-56 OVER FOX RIVER
VILLAGE OF NORTH AURORA
AURORA TOWNSHIP
KANE COUNTY**

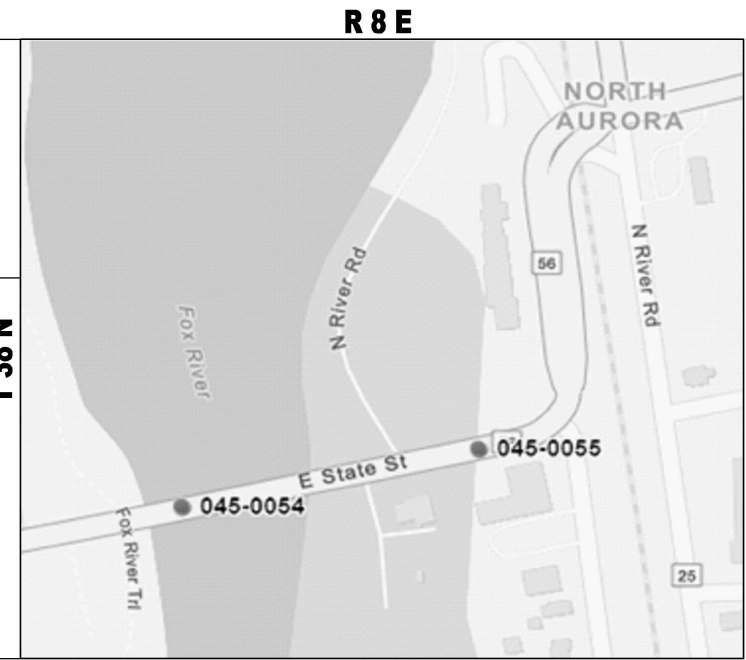
**LOCATION 22: SN 045-0055
IL-56 OVER FOX TAILRACE
VILLAGE OF NORTH AURORA
AURORA TOWNSHIP
KANE COUNTY**

TRAFFIC DATA

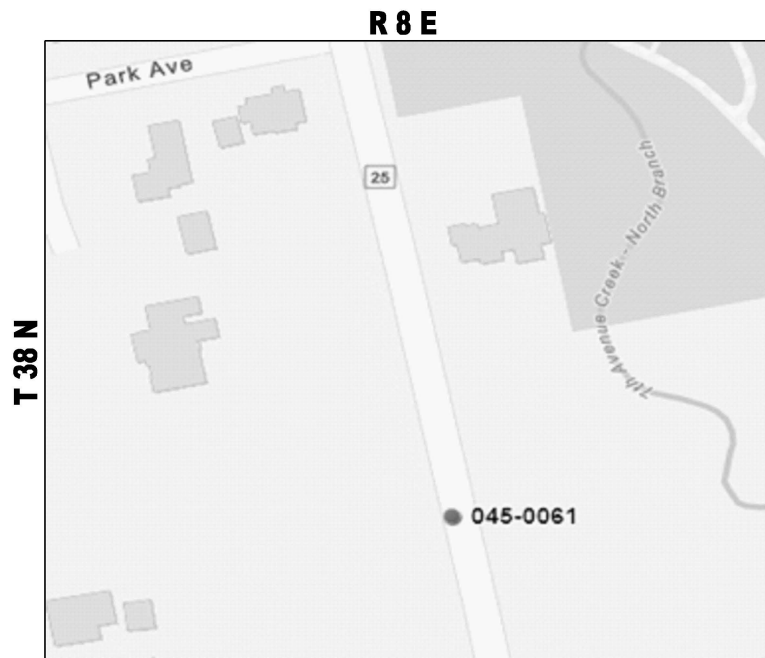
IL-56

ADT: = 11,900 (2023)

SPEED LIMIT = 25 MPH



LOCATIONS 21 & 22



**LOCATION 23: SN 045-0061
IL-25 OVER FOX ABANDONED RR-UP
CITY OF ST. CHARLES
ST. CHARLES TOWNSHIP
KANE COUNTY**

TRAFFIC DATA

IL-25

ADT: = 9,600 (2023)

SPEED LIMIT = 55 MPH

LOCATION 23

**LOCATION 24: SN 045-0077
US-20 OVER MCLEAN BLVD
CITY OF ELGIN
ELGIN TOWNSHIP
KANE COUNTY**

TRAFFIC DATA

US-20

ADT: = 31,800 (2023)

SPEED LIMIT = 55 MPH



LOCATION 24

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		CHECKED	-	REVISED	-
PLOT DATE	= 5/15/2025	DATE	-	REVISED	-

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

LOCATION MAP

SCALE: SHEET OF 10 SHEETS STA. 0+00.00 TO STA. 0+00.00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2024-1008-BDS	VARIOUS	80	9
CONTRACT NO. 62X45				
ILLINOIS FED. AID PROJECT				

TRAFFIC DATA

IL-47

ADT: = 6,850 (2023)

SPEED LIMIT = 55 MPH

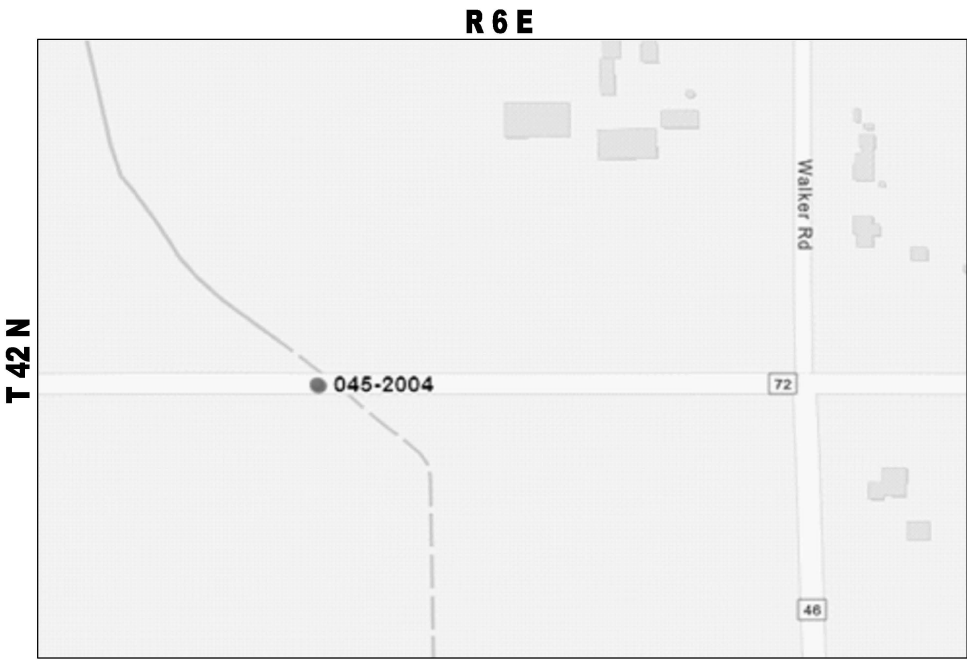
TRAFFIC DATA
IL-31
ADT: = 17,800 (2023)
SPEED LIMIT = 35 MPH

TRAFFIC DATA
IL-38
ADT: = 25,600 (2023)
SPEED LIMIT = 50 MPH

TRAFFIC DATA
IL-31
ADT: = 11,700 (2023)
SPEED LIMIT = 45 MPH

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	DRAWN -	REVISED -						VAR	2024-1008-BDS	VARIOUS	80	10
	CHECKED -	REVISED -						CONTRACT NO. 62X45				
PLOT DATE = 5/15/2025	DATE -	REVISED -		SCALE:	SHEET	OF 10 SHEETS	STA. 0+00.00	TO STA. 0+00.00				
				ILLINOIS FED. AID PROJECT								



**LOCATION 29: SN 045-2004
IL-72 OVER COON CREEK BRANCH
VILLAGE OF HAMPSHIRE
HAMPSHIRE TOWNSHIP
KANE COUNTY**

TRAFFIC DATA

IL-72

ADT: = 4,950 (2023)

SPEED LIMIT = 55 MPH

LOCATION 29

**LOCATION 30: SN 045-2005
US-30 OVER W BR BIG ROCK CREEK
VILLAGE OF BIG ROCK
BIG ROCK TOWNSHIP
KANE COUNTY**

TRAFFIC DATA

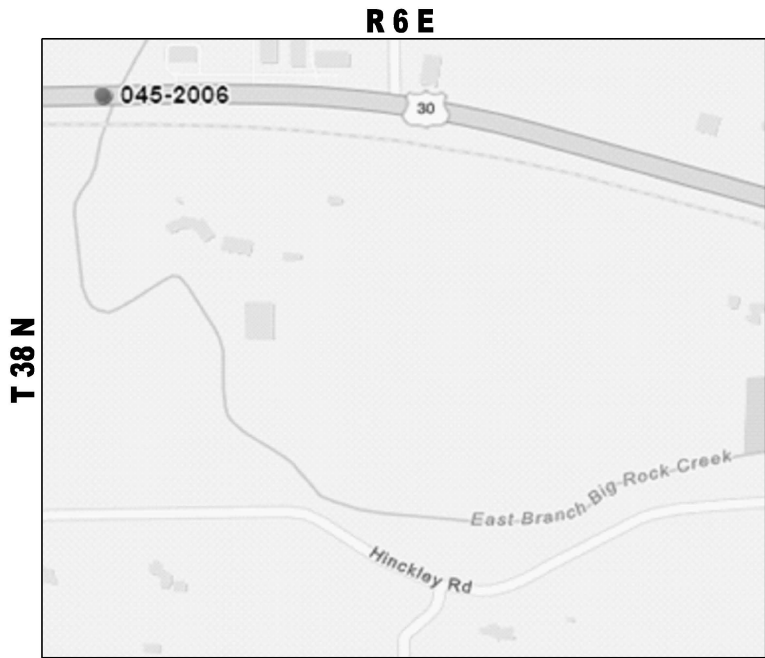
US-30

ADT: = 5,050 (2023)

SPEED LIMIT = 55 MPH



LOCATIONS 30



**LOCATION 31: SN 045-2006
US-30 OVER E BR BIG ROCK CREEK
VILLAGE OF BIG ROCK
BIG ROCK TOWNSHIP
KANE COUNTY**

TRAFFIC DATA

US-30

ADT: = 5,300 (2023)

SPEED LIMIT = 55 MPH

LOCATION 31

**LOCATION 32: SN 045-2023
HILL AVE OVER WAUBANSEE CREEK
AURORA TOWNSHIP
KANE COUNTY**

TRAFFIC DATA

HILL AVE

ADT: = 17,400 (2023)

SPEED LIMIT = 50 MPH



LOCATION 32

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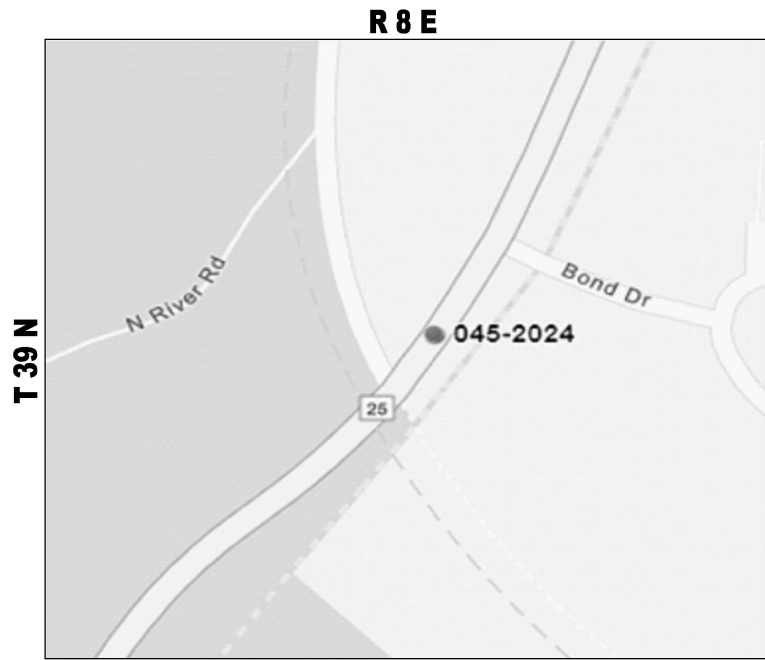
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		CHECKED	-	REVISED	-
PLOT DATE	= 5/15/2025	DATE	-	REVISED	-

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

LOCATION MAP

SCALE: SHEET OF 10 SHEETS STA. 0+00.00 TO STA. 0+00.00

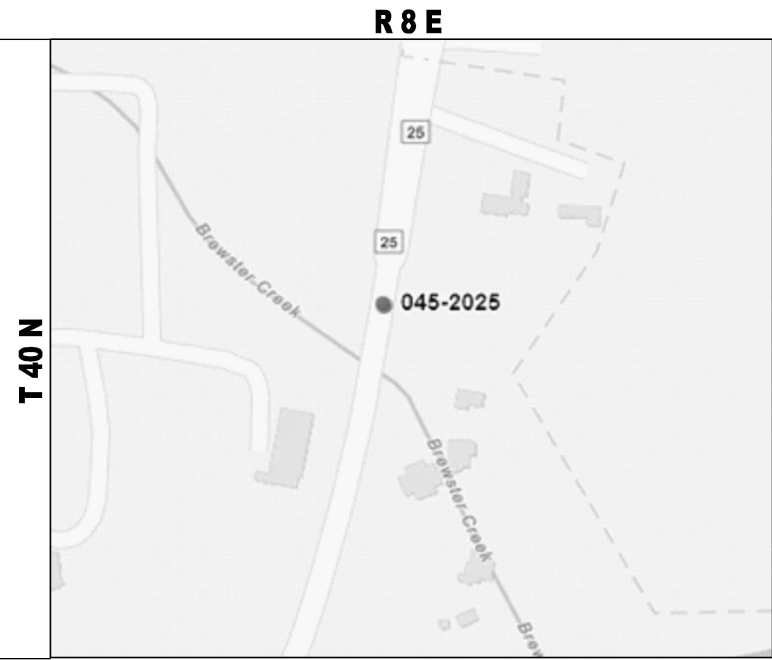
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2024-1008-BDS	VARIOUS	80	11
CONTRACT NO. 62X45				
ILLINOIS FED. AID PROJECT				



**LOCATION 33: SN 045-2024
IL-25 OVER PRAIRIE PATH BIKE TRAIL
CITY OF BATAVIA
BATAVIA TOWNSHIP
KANE COUNTY**

TRAFFIC DATA
IL-25
ADT: = 6,950 (2023)
SPEED LIMIT = 40 MPH

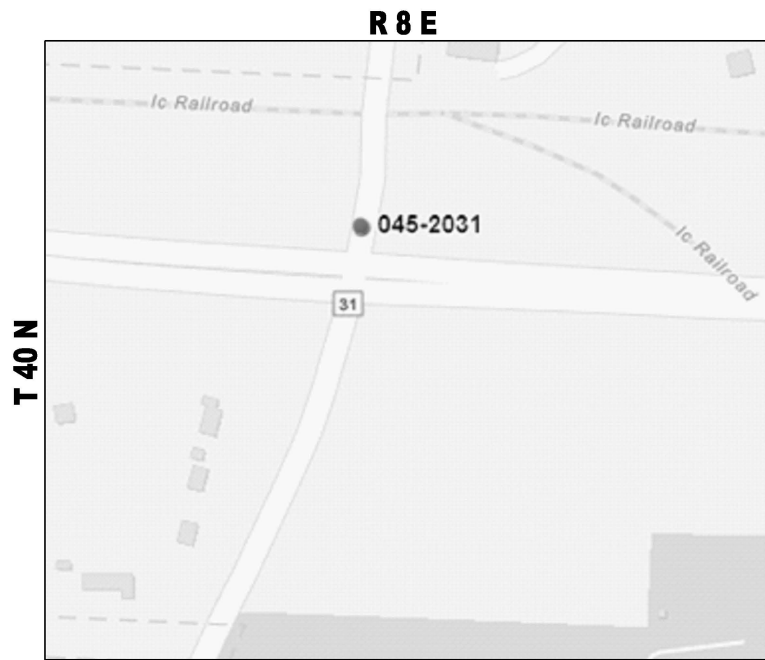
LOCATION 33



**LOCATION 34: SN 045-2025
IL-25 OVER BREWSTER CREEK
ST. CHARLES TOWNSHIP
KANE COUNTY**

TRAFFIC DATA
IL-25
ADT: = 10,700 (2023)
SPEED LIMIT = 45 MPH

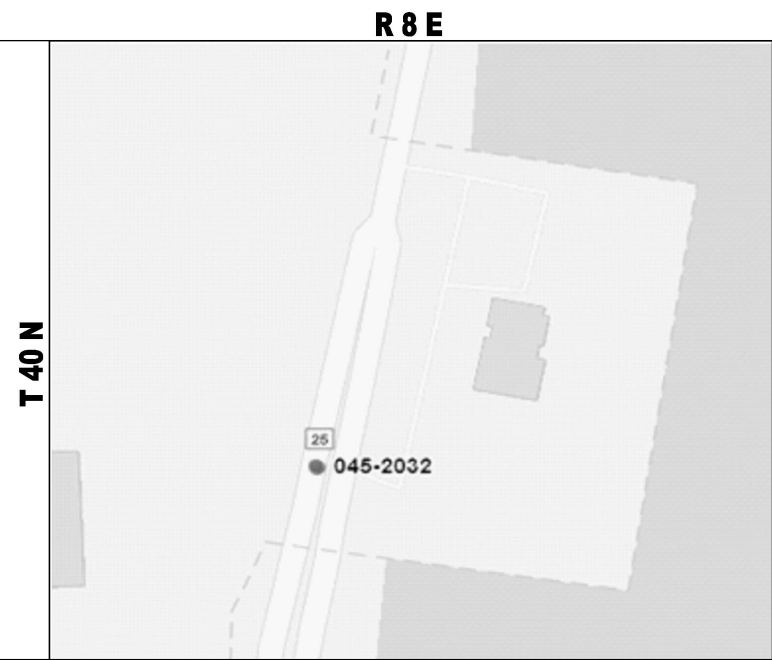
LOCATIONS 34



**LOCATION 35: SN 045-2031
IL-31 OVER STERNS ROAD
ST. CHARLES TOWNSHIP
KANE COUNTY**

TRAFFIC DATA
IL-31
ADT: = 6,250 (2023)
SPEED LIMIT = 45 MPH

LOCATION 35



**LOCATION 36: SN 045-2032
IL-25 OVER E BR BREWSTER CREEK
ST. CHARLES TOWNSHIP
KANE COUNTY**

TRAFFIC DATA
IL-25
ADT: = 14,900 (2023)
SPEED LIMIT = 45 MPH

LOCATION 36

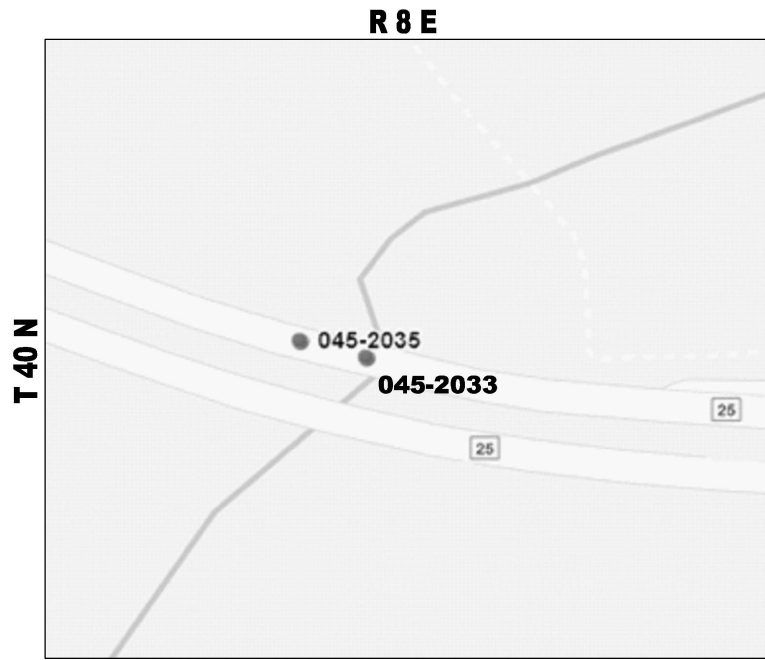
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USER NAME = mohammad.hamwi	DESIGNED -	REVISED -
	DRAWN -	REVISED -
	CHECKED -	REVISED -
PLOT DATE = 5/15/2025	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

LOCATION MAP			
SCALE:	SHEET	OF 10 SHEETS	STA. 0+00.00 TO STA. 0+00.00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2024-1008-BDS	VARIOUS	80	12
CONTRACT NO. 62X45				
ILLINOIS FED. AID PROJECT				



LOCATION 37: SN 045-2033
IL-25 EB STEARNS RD OVER BRESWTER CREEK
ST. CHARLES TOWNSHIP
KANE COUNTY

LOCATION 38: SN 045-2035
IL-25 WB STEARNS RD OVER BRESWTER CREEK
ST. CHARLES TOWNSHIP
KANE COUNTY

TRAFFIC DATA

IL-25

ADT: = 10,700 (2023)

SPEED LIMIT = 40 MPH

LOCATIONS 37 & 38

LOCATION 39: SN 045-5000
IL-25 OVER POPLAR CREEK
CITY OF ELGIN
ELGIN TOWNSHIP
KANE COUNTY

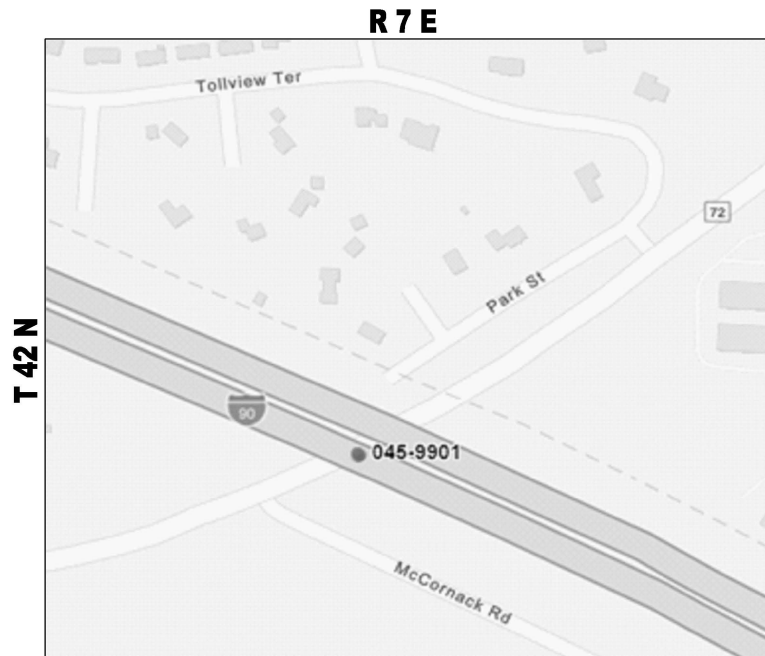
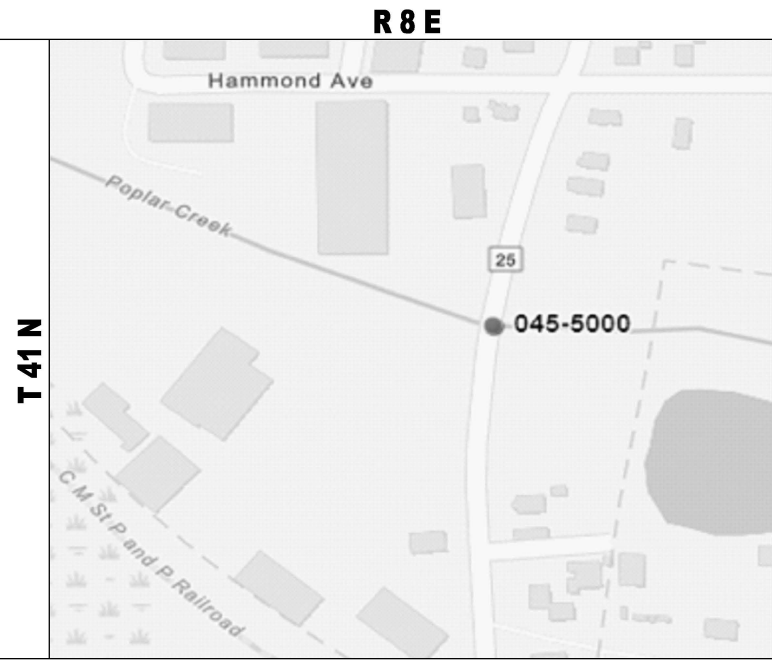
TRAFFIC DATA

IL-25

ADT: = 15,900 (2023)

SPEED LIMIT = 35 MPH

LOCATION 39



LOCATION 40: SN 045-9901
IL-72 OVER I-90
VILLAGE OF GILBERTS
RUTLAND TOWNSHIP
KANE COUNTY

TRAFFIC DATA

IL-72

ADT: = 13,800 (2023)

SPEED LIMIT = 40 MPH

LOCATION 40

LOCATION 41: SN 047-0029
US-30 OVER BLACKBERRY CREEK
VILLAGE OF MONTGOMERY
BRISTOL TOWNSHIP
KENDALL COUNTY

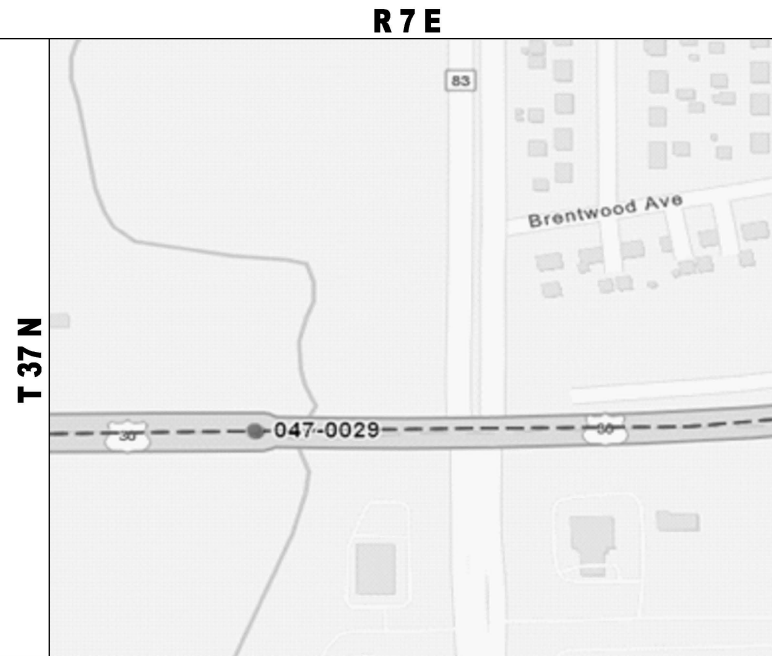
TRAFFIC DATA

US-30

ADT: = 15,800 (2023)

SPEED LIMIT = 55 MPH

LOCATION 41



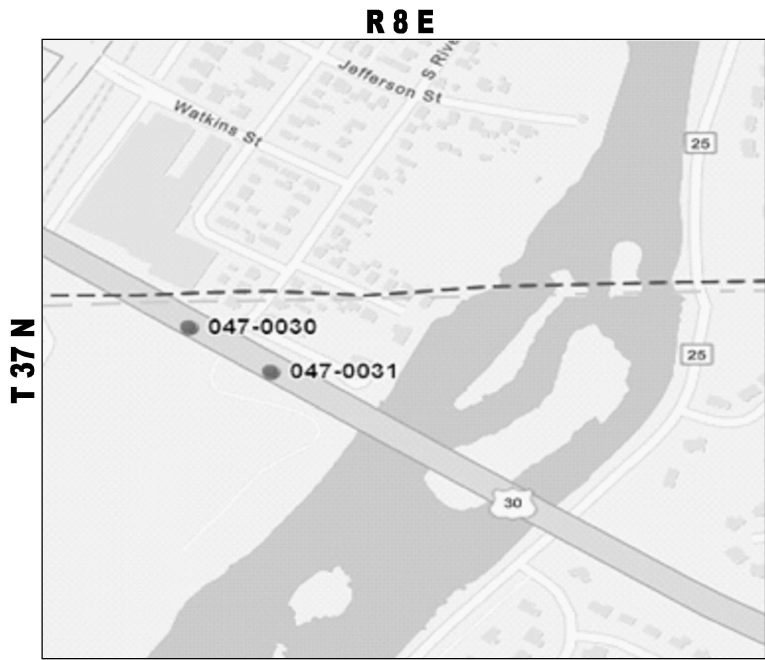
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	DRAWN -	REVISED -
	CHECKED -	REVISED -
PLOT DATE = 5/15/2025	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

LOCATION MAP			
SCALE:	SHEET	OF 10 SHEETS	TO STA. 0+00.00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2024-1008-BDS	VARIOUS	80	13
CONTRACT NO. 62X45				
ILLINOIS FED. AID PROJECT				



**LOCATION 42: SN 047-0030
US-30 OVER RIVER ST
VILLAGE OF MONTGOMERY
OSWEGO TOWNSHIP
KENDALL COUNTY**

**LOCATION 43: SN 047-0031
US-30 OVER FOX RIVER & IL-25
VILLAGE OF MONTGOMERY
OSWEGO TOWNSHIP
KENDALL COUNTY**

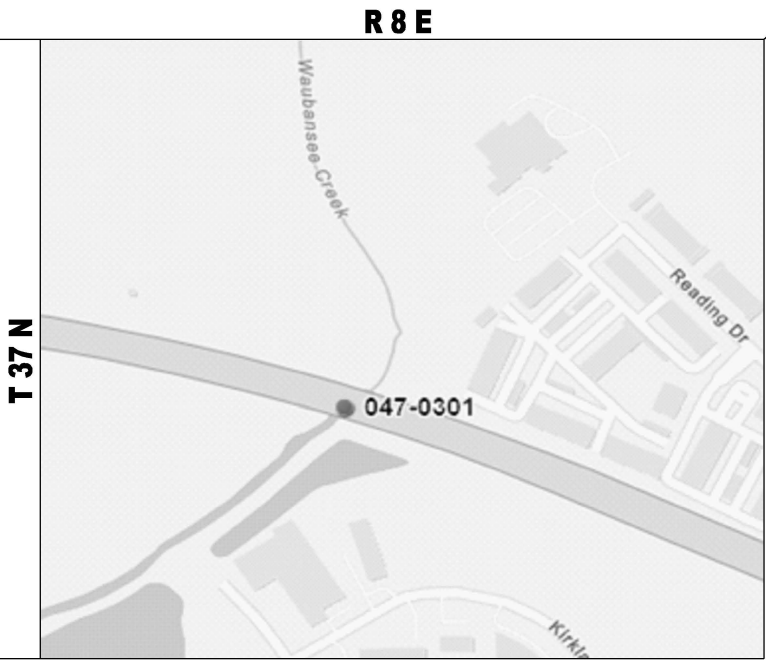
TRAFFIC DATA

US-30

ADT: = 31,600 (2023)

SPEED LIMIT = 45 MPH

LOCATIONS 42 & 43



**LOCATION 44: SN 047-0301
US-30 OVER WABUNSEE CREEK
VILLAGE OF OSWEGO
OSWEGO TOWNSHIP
KENDALL COUNTY**

TRAFFIC DATA

US-30

ADT: = 27,600 (2023)

SPEED LIMIT = 55 MPH

LOCATION 44

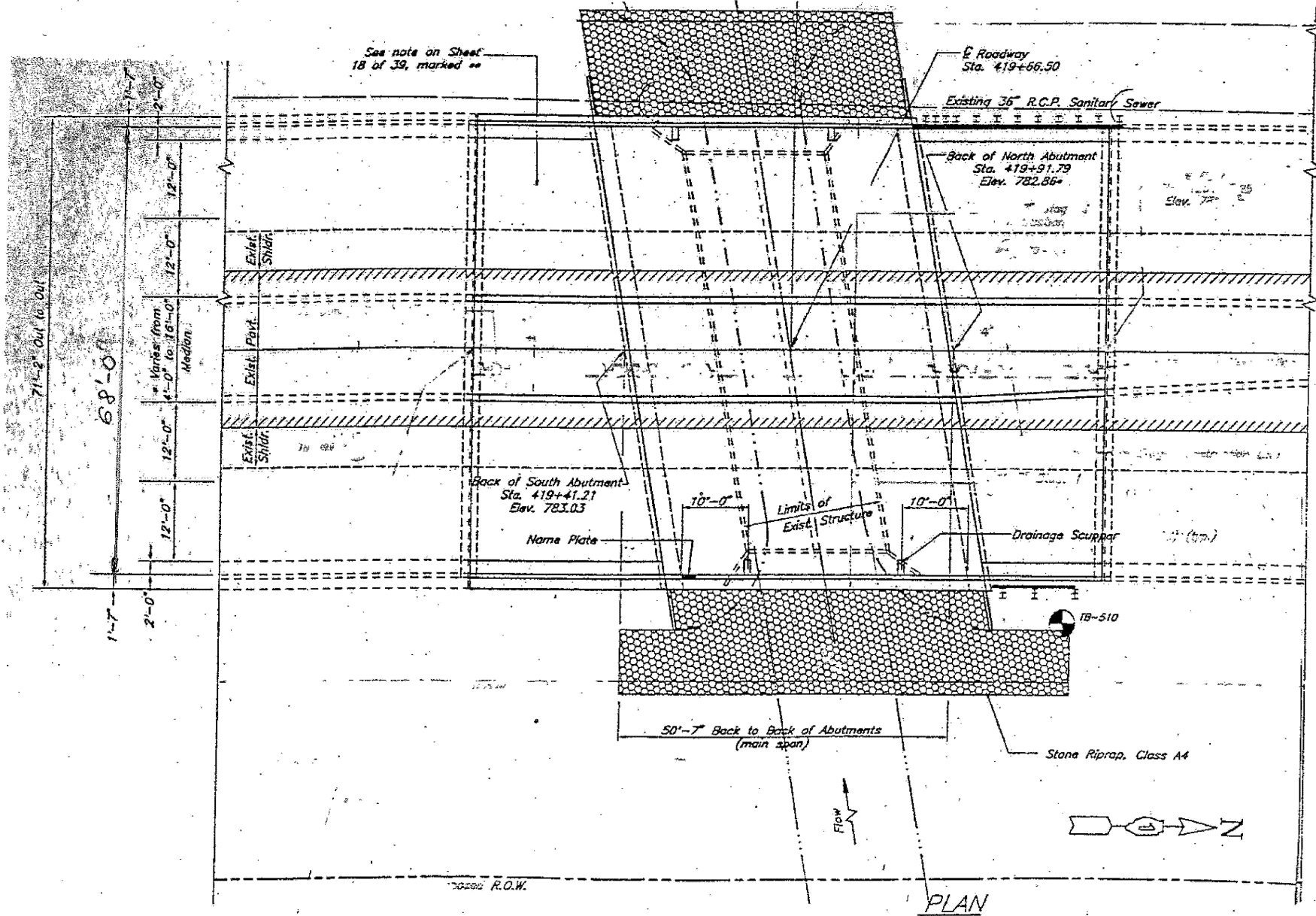
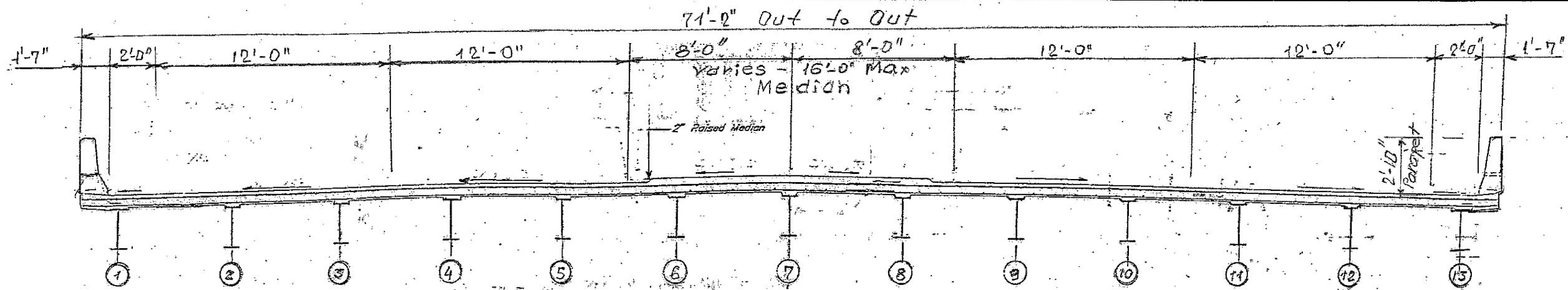
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	USER NAME = mohammad.hamwi	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	LOCATION MAP				F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		DRAWN -	REVISED -						VAR	2024-1008-BDS	VARIOUS	80	14
	PLOT DATE = 5/15/2025	CHECKED -	REVISED -		SCALE: SHEET OF 10 SHEETS STA. 0+00.00 TO STA. 0+00.00				CONTRACT NO. 62X45				
		DATE -	REVISED -						ILLINOIS FED. AID PROJECT				



EXISTING PLANS
LOCATION 4 (SN 016-2640)

USER NAME = mohammad.hamwi	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	EXISTING STRUCTURAL PLANS (SN 016-2640)				F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	DRAWN -	REVISED -						VAR	2024-1008-BDS	VARIOUS	80	15
PLOT SCALE = 0.198686933' / in.	CHECKED -	REVISED -						CONTRACT NO. 62X45				
PLOT DATE = 5/15/2025	DATE -	REVISED -										
				SCALE:	SHEET	OF 62 SHEETS	STA.	TO STA.				



FOR INFORMATION ONLY

ILLINOIS DEPARTMENT OF
TRANSPORTATION

EXISTING PLANS
LOCATION 2 (SN 016-2671)

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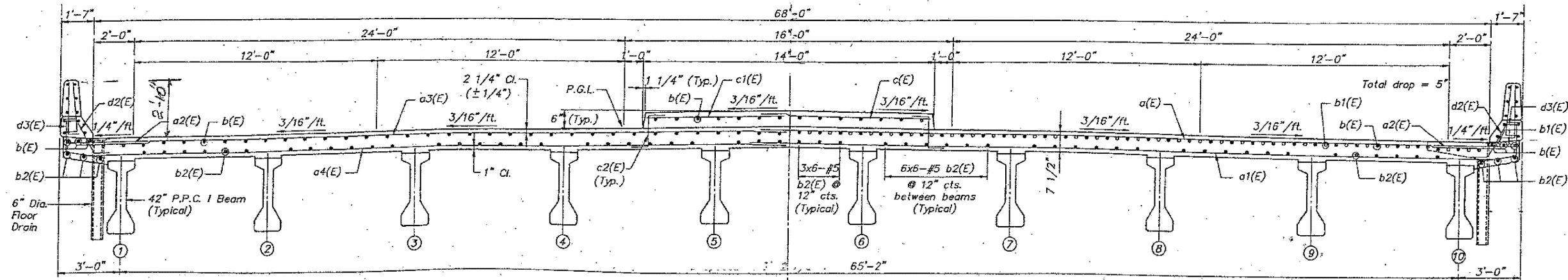
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PLOT DATE = 5/15/2025	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING STRUCTURAL PLANS (SN 016-2671)

SCALE: SHEET OF 62 SHEETS STA. TO STA.

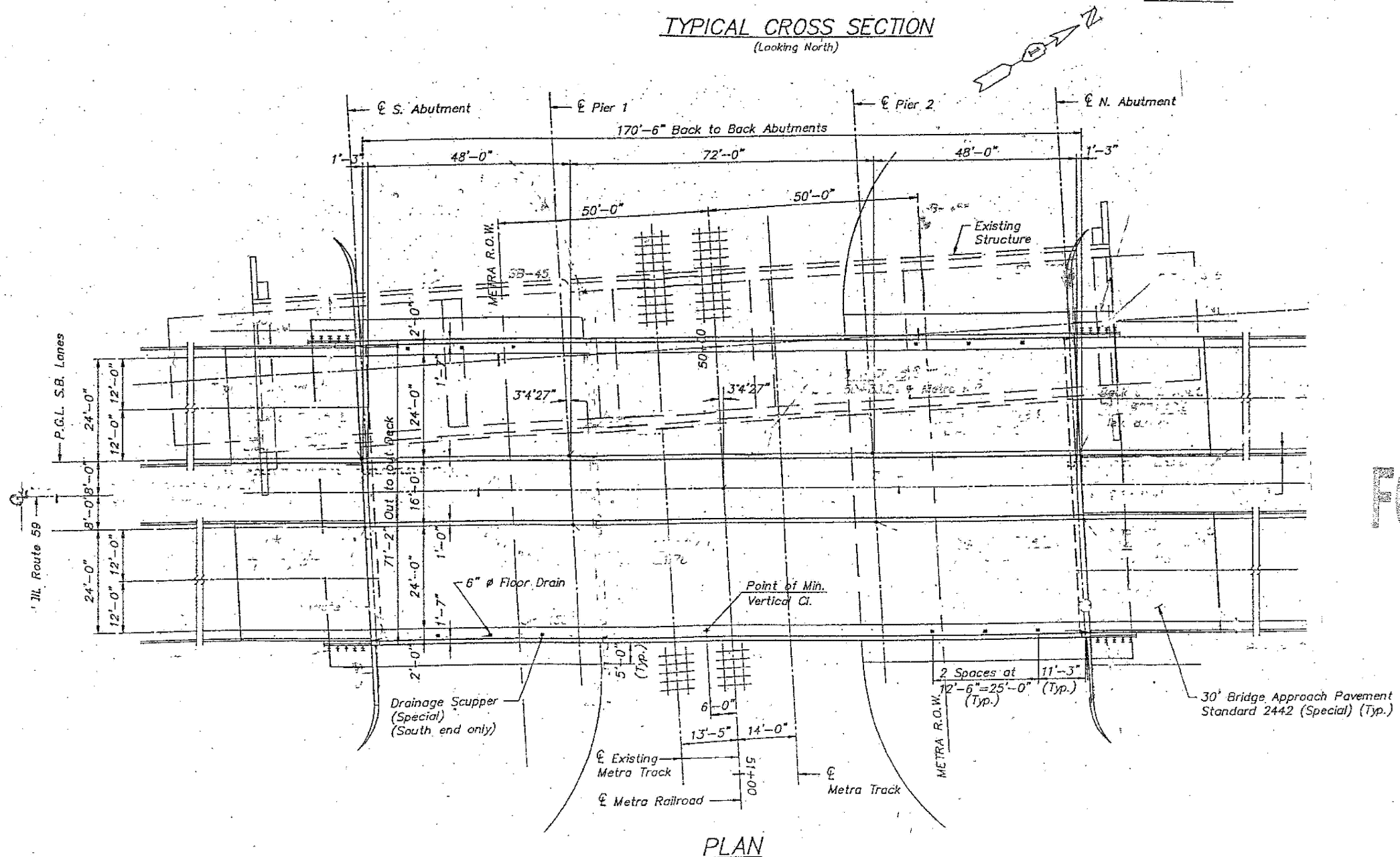
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VAR	2024-1008-BDS	VARIOUS	80	16
CONTRACT NO. 62X45				
ILLINOIS FED. AID PROJECT				



NEAR MIDSPAN

TYPICAL CROSS SECTION
(Looking North)

NEAR PIER



FOR INFORMATION ONLY

ILLINOIS DEPARTMENT OF
TRANSPORTATION

EXISTING PLANS
LOCATION 1 (SN 016-2606)

MODEL: 3 - LOCATION 3 (SN 016-2606)
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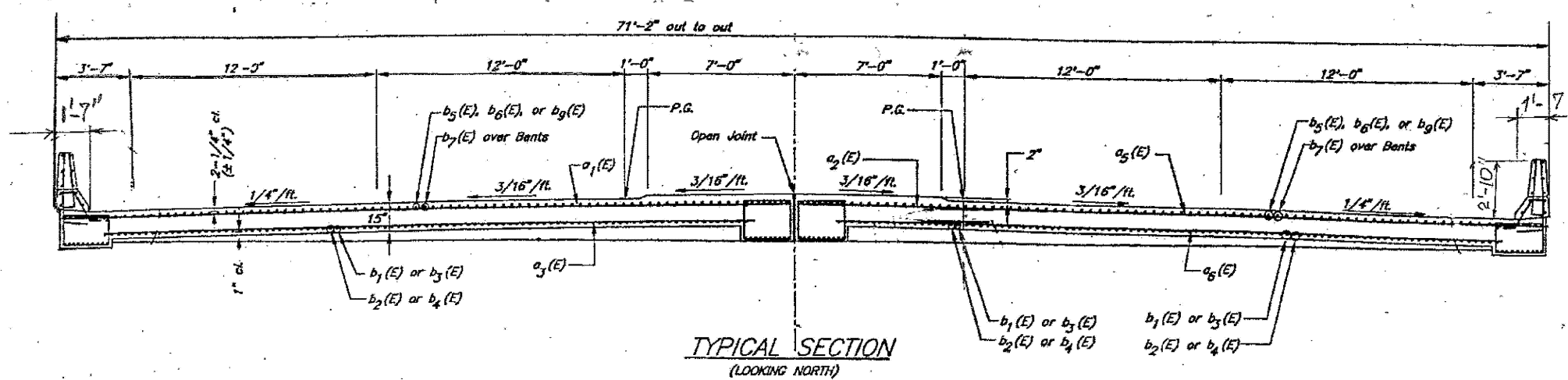
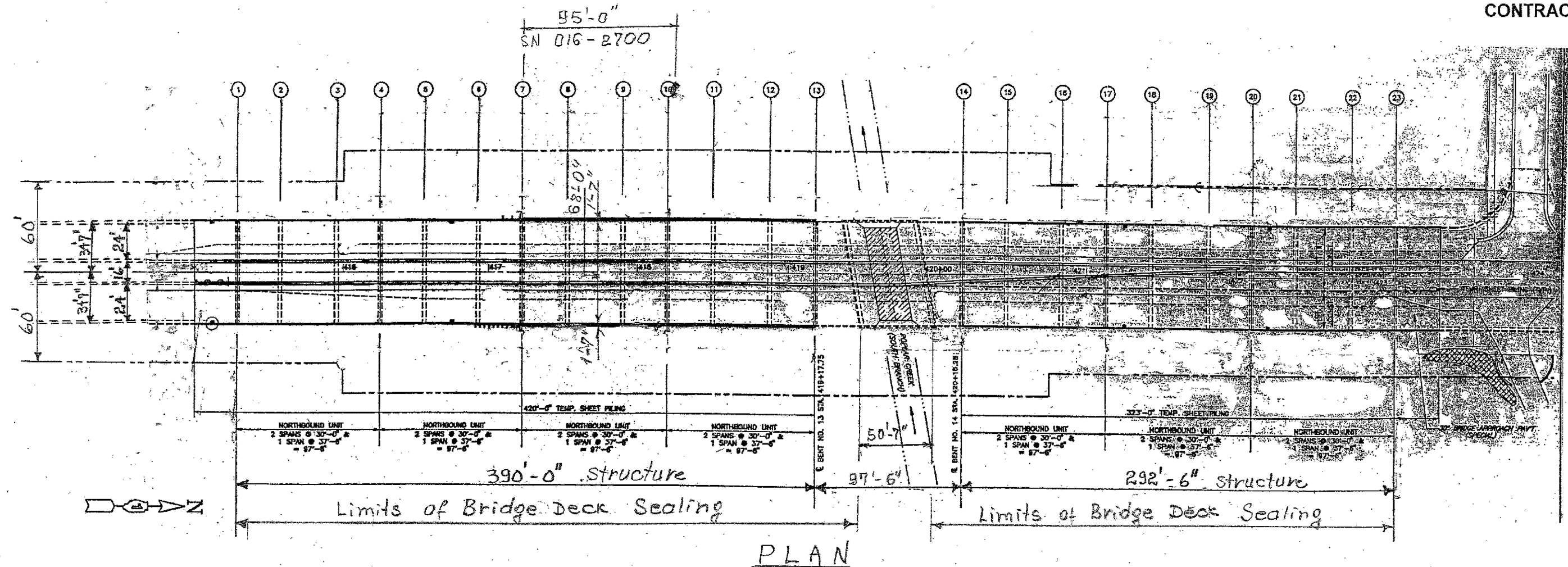
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	DRAWN -	REVISED -
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PLOT DATE = 5/15/2025	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING STRUCTURAL PLANS (SN 016-2606)

SCALE: SHEET OF 62 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2024-1008-BDS	VARIOUS	80	17
CONTRACT NO. 62X45				
ILLINOIS FED. AID PROJECT				



FOR INFORMATION ONLY

ILLINOIS DEPARTMENT OF
TRANSPORTATION

EXISTING PLANS
LOCATION 3 (SN 016-2700)

MODEL: 4 - LOCATION 4 (SN 016-2700)
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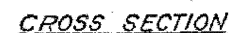
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PLOT DATE = 5/15/2025	CHECKED -	REVISED -
	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING STRUCTURAL PLANS (SN 016-2700)

SCALE: SHEET OF 62 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2024-1008-BDS	VARIOUS	80	18
CONTRACT NO. 62X45				
ILLINOIS FED. AID PROJECT				



FOR INFORMATION ONLY

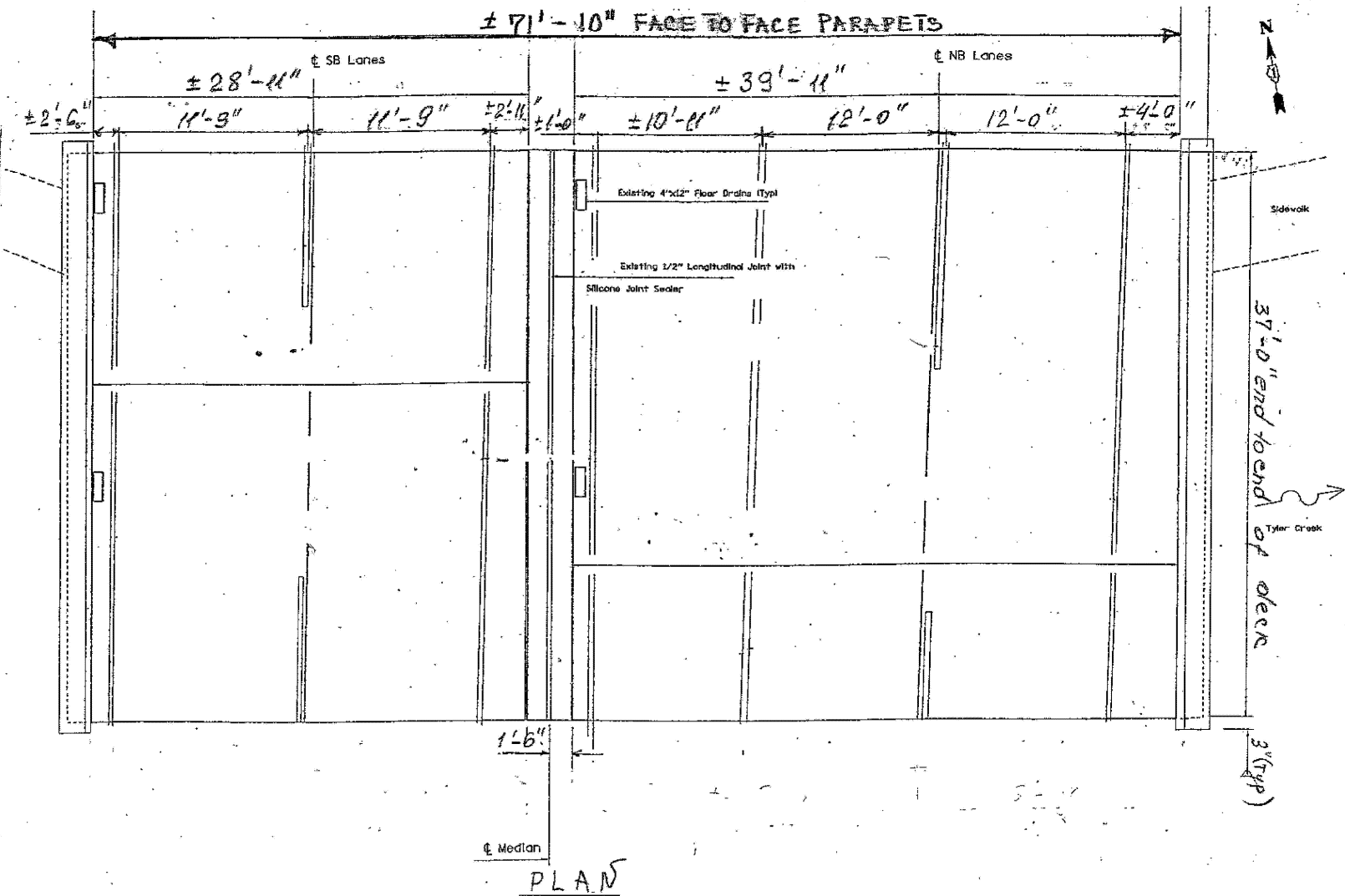
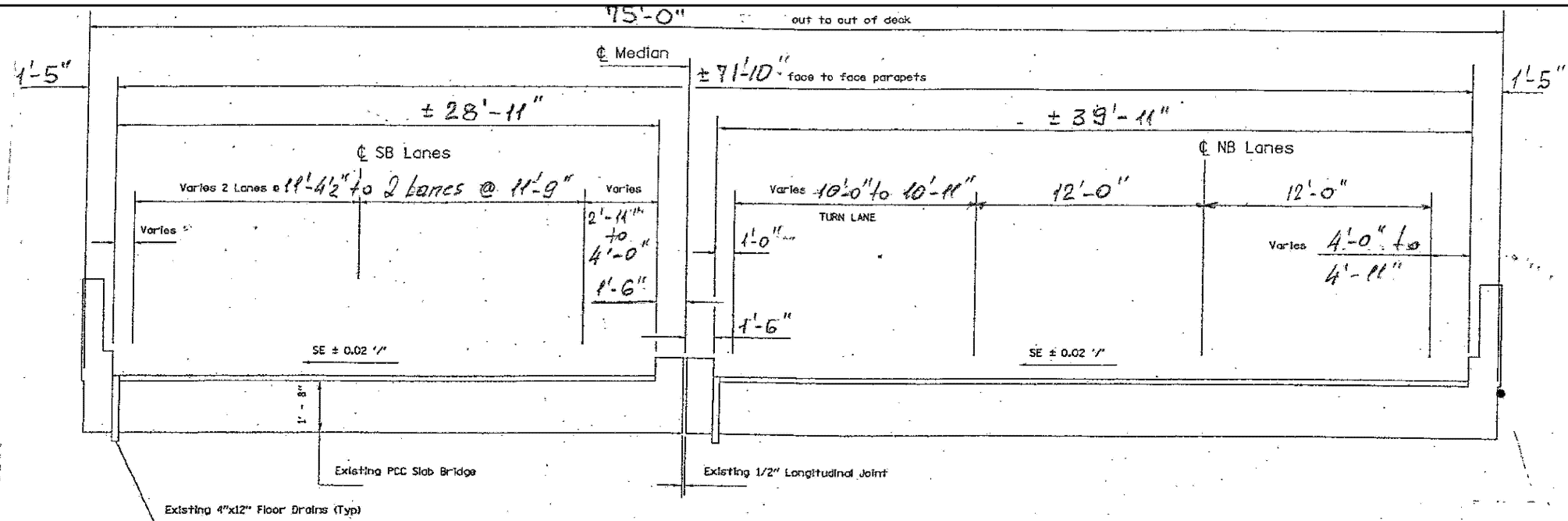
EXISTING PLANS
LOCATION 5 (SN 045-0009)

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	DRAWN -	REVISED -
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PLOT DATE = 5/14/2025	DATE -	REVISED -

EXISTING STRUCTURAL PLANS (SN 045-0009)

SCALE:	SHEET	OF 62 SHEETS	STA.	TO STA.
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F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2024-1008-BDS	VARIOUS	80	19
		CONTRACT NO. 62X45		
ILLINOIS		FED. AID PROJECT		



FOR INFORMATION ONLY

ILLINOIS DEPARTMENT OF
TRANSPORTATION

EXISTING PLANS
LOCATION 6 (SN 045-0015)

MODEL: 6 - LOCATION 6 (SN 045-0015)
FILE NAME: c:\p\work\delham\ind1103949D\03025-shr-schedule.dgn

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PLOT DATE = 5/15/2025	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING STRUCTURAL PLANS (SN 045-0015)

SCALE: SHEET OF 62 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2024-1008-BDS	VARIOUS	80	20
CONTRACT NO. 62X45				
ILLINOIS FED. AID PROJECT				

FOR INFORMATION ONLY

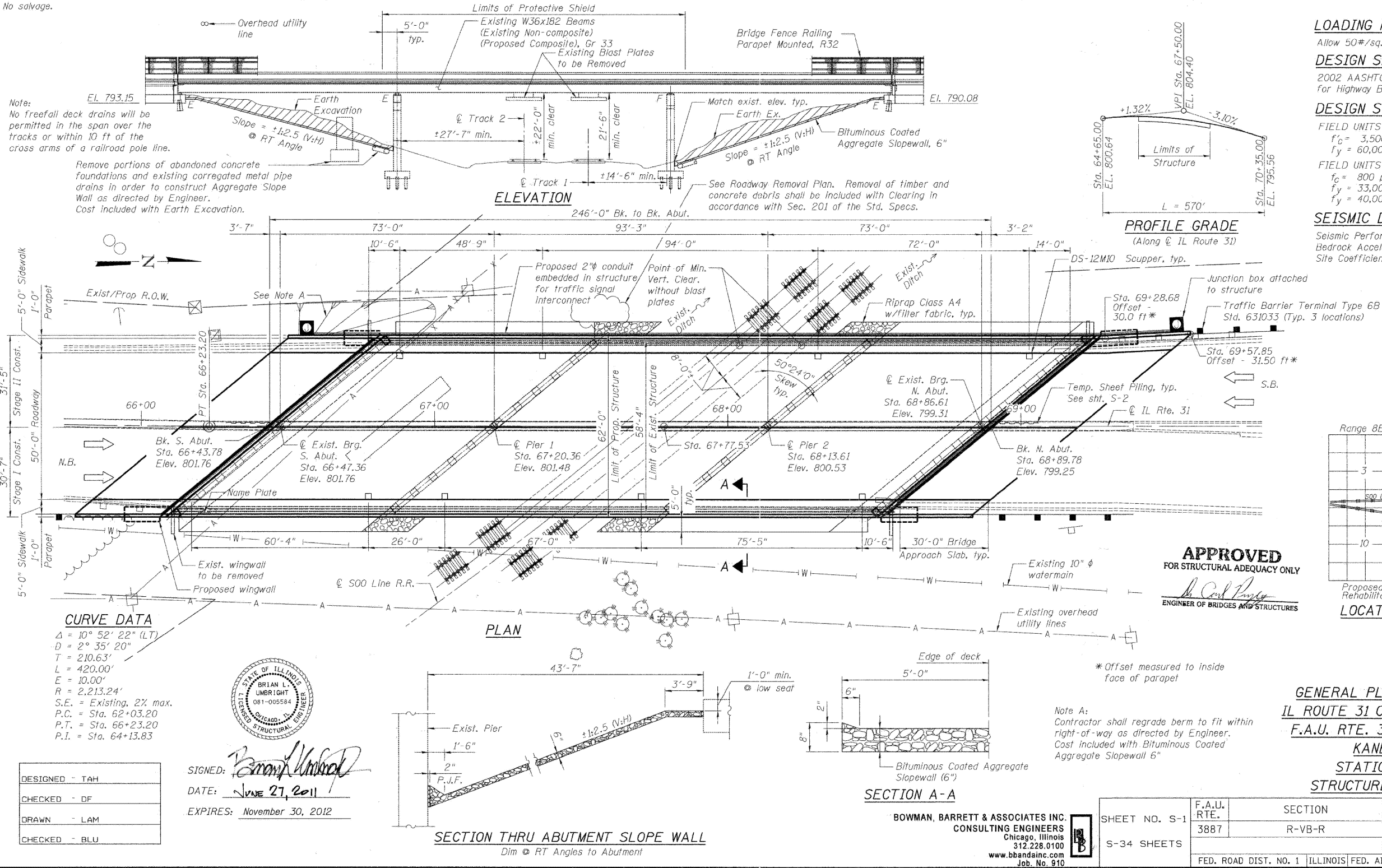
Bench Mark: U.S.G.S. Disk on top of Southwest wingwall, elevation 801.26.

Existing Structure: S.N. 045-0016 carrying IL Route 31 over Soo Line Railroad was originally built in 1952 as SBI Route 22, Section R-VB. The bridge is a 3-span continuous structure with 12 lines of non-composite rolled steel beams. The existing structure is 58'-4" out to out and measures 246'-0" back to back abutment, and is supported by spill thru pile bent abutments and multi column piers. The structure was rehabilitated in 1984 and included waterproofing the deck and installing a bituminous wearing surface, new 1'-8" wide bridge parapets, the transverse expansion joints were rebuilt and the longitudinal open joint was closed. The transverse joints now consist of a 2 1/2" neoprene joint at south abutment, and a poured joint at the north abutment. The structure has a 50°24'00" forward left skew. The existing deck is to be removed and replaced and substructure repaired. One lane of traffic in each direction is to be maintained utilizing stage construction. No salvage.

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SCOPE OF WORK

1. Remove and replace deck and approach pavements.
2. Remove and replace abutment backwalls and substructure repairs.
3. Remove and replace bearings at abutments and piers. Jack and raise existing superstructure by providing steel extensions at abutments and Pier 2, and concrete extensions at Pier 1.
4. Remove and replace all end diaphragms.
5. Provide stud shear connectors.
6. Remove blast plates.
7. Clean and paint existing structural steel within 10 ft of each beam end, the exterior surface and bottom flange of fascia beam, and interior surfaces where paint failure occurred.
8. Regrade and construct bituminous coated aggregate slopewalls.



MODEL: 7A-LOCATION 7A (SN 045-0016)
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	DATE -	REVISED -

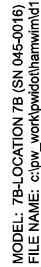
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING STRUCTURAL PLANS (SN 045-0016)

SCALE: SHEET OF 62 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2024-1008-BDS	VARIOUS	80	21
CONTRACT NO. 62X45				
ILLINOIS FED. AID PROJECT				

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION



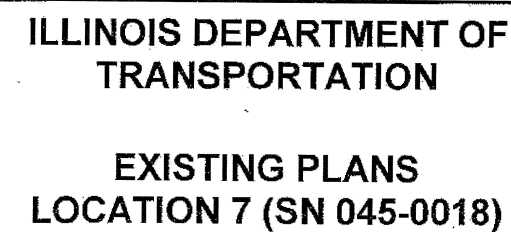
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PLOT DATE = 5/15/2025	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

EXISTING STRUCTURAL PLANS (SN 045-0016)

SCALE:	SHEET	OF 62 SHEETS	STA.	TO STA.
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F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2024-1008-BDS	VARIOUS	80	22
		CONTRACT NO. 62X45		
		ILLINOIS	FED. AID PROJECT	



USER NAME = mohammad.hamwi	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	EXISTING STRUCTURAL PLANS (SN 045-0018)				F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	DRAWN -	REVISED -						VAR	2024-1008-BDS	VARIOUS	80	23
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								ILLINOIS FED. AID PROJECT				

FOR INFORMATION ONLY

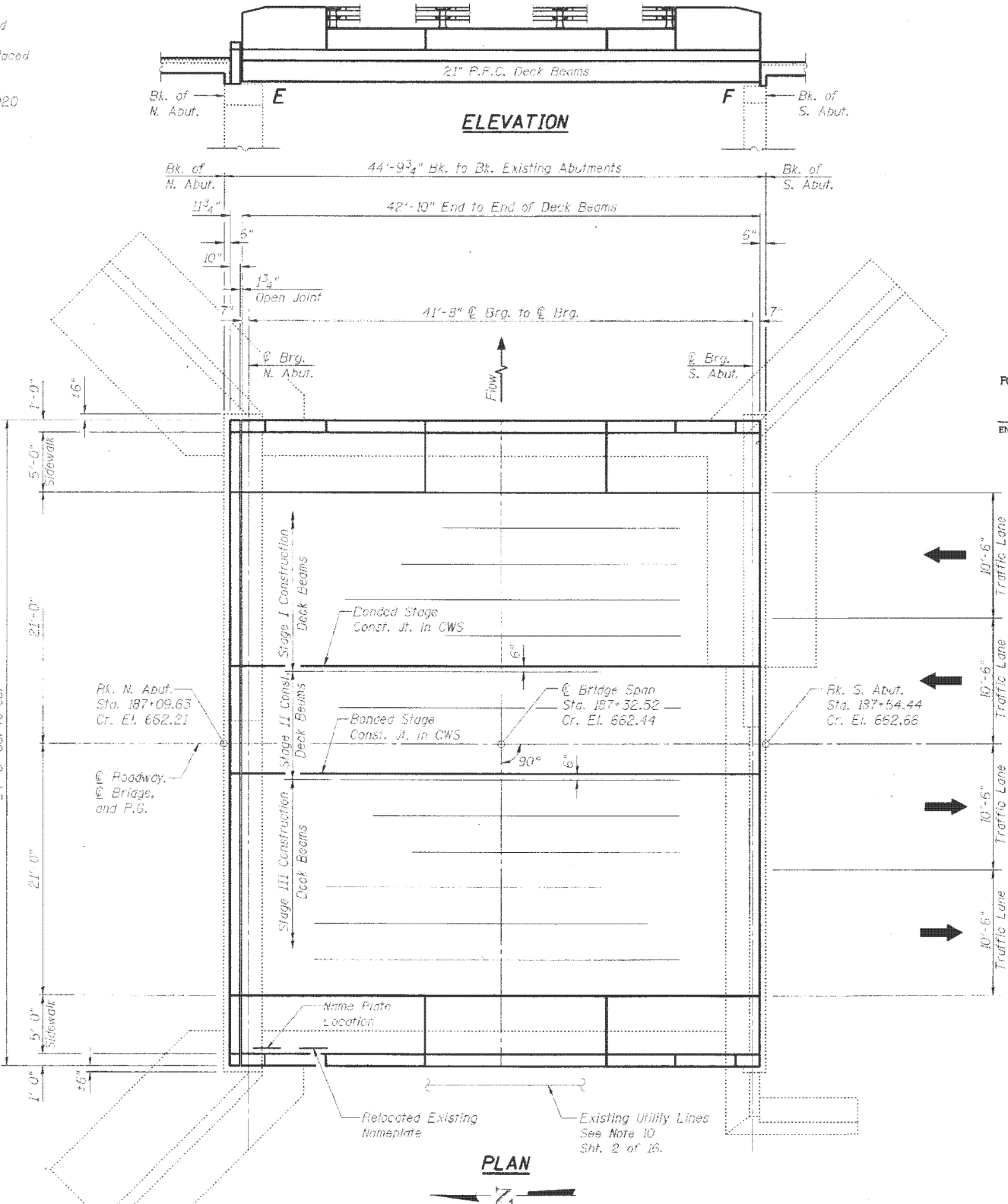
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	SHEET NO.	SHEET NO.
3887	AR-B	KANE	43	17
SHEET NO. 1				
16 SHEETS				
Contract #60023				

Benchmarks:
Existing benchmark could not be found on N.E. wingwall. Top of N.E. wingwall was assumed at El. 661.84 (original benchmark elevation). Elevation was transferred to temporary benchmark which is railroad spike in west side of power pole, El. 662.23.

Existing Structure:
Original Bridge S.N. 045-0020 was built as R.C. Deck Girder with Closed Abutments next to thru steel girder Railroad Bridge in early 1900's. Railroad Bridge was removed and Highway Bridge was widened in kind, abutments modified, in 1935. This structure was rebuilt in 1978. Superstructure was removed and replaced with PPC Deck Beams. Abutments were modified for deck beams and repaired as required. The existing PPC Deck Beams, Sidewalk, and Parapets shall be removed and replaced utilizing stage construction. Existing brass name plate has SN 025-0020 imprinted rather than SN 045-0020.

Salvage:
Remove and re-erect existing aluminum railing. Relocate existing name plate.



APPROVED
FOR STRUCTURAL ADEQUACY ONLY
Rahab E. Anderson
ENGINEER OF BRIDGES AND STRUCTURES

INDEX OF SHEETS

1. General Plan & Elevation
2. General Notes and Total Bill of Material
3. Stage I Construction
4. Stage II Construction
5. Stage III Construction
6. Temporary Concrete Barrier
7. Superstructure Details
8. Sections and Bearing Details
9. Strip Seal Joint Details
10. Concrete Wearing Surface
11. Sidewalk & Parapet Details
12. Parapet Details
13. Bar Splicer Assembly Details
14. Re-erected Aluminum Railing
15. North Abutment Details
16. Substructure Repairs

LOADING HS20-44

No Allowance for future wearing surface

DESIGN SPECIFICATIONS

2002 AASHTO Standard Specifications

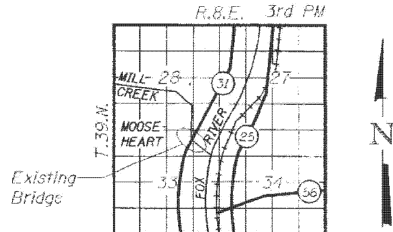
DESIGN STRESSES

FIELD UNITS

$f'_c = 3,500$ psi
 $f_y = 60,000$ psi (reinforcement)

PRECAST/PRESTRESSED UNITS

$f'_c = 5,000$ psi
 $f'_c = 4,000$ psi
 $f'_s = 270,000$ psi (1/2" ϕ low lax strands)
 $f'_s = 201,960$ psi (1/2" ϕ low lax strands)



LOCATION SKETCH

GENERAL PLAN & ELEVATION

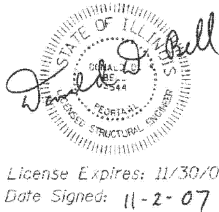
F.A.U. 3887 (IL 31)

OVER MILL CREEK

SECTION AR-B

KANE COUNTY STA. 187+31.80

STRUCTURE NO. 045-0020



License Expires: 11/30/08
Date Signed: 11-2-07

STS CONSULTANTS
111 NE Jefferson Ave.
Peoria, Illinois 61602
Ph: (309) 676-8464
FAX: (309) 676-5445
Ill. Design Firm Reg. No. 184-001518

USER NAME = mohammad.hamwi	DESIGNED -	REVISED -
DRAWN -	REVISED -	
PLOT SCALE = 0.16666633' / in.	CHECKED -	REVISED -
PLOT DATE = 5/15/2025	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

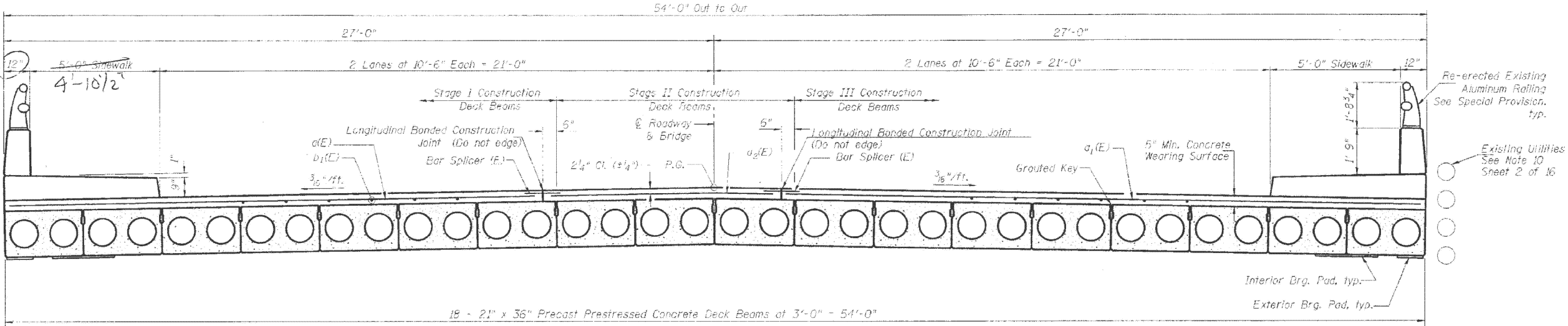
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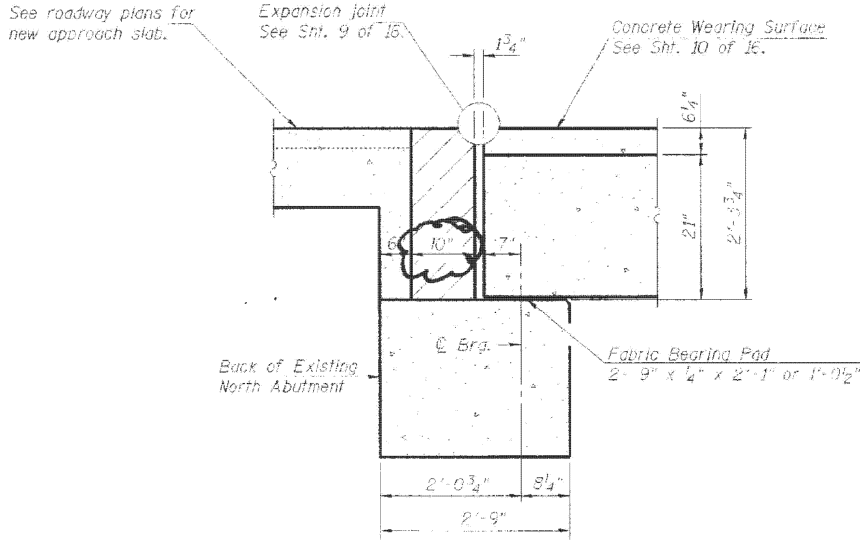
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CONTRACT NO. 62X45				
ILLINOIS FED. AID PROJECT				

MODEL: 9A-LOCATION 9A (SN 045-0020)
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FOR INFORMATION ONLY

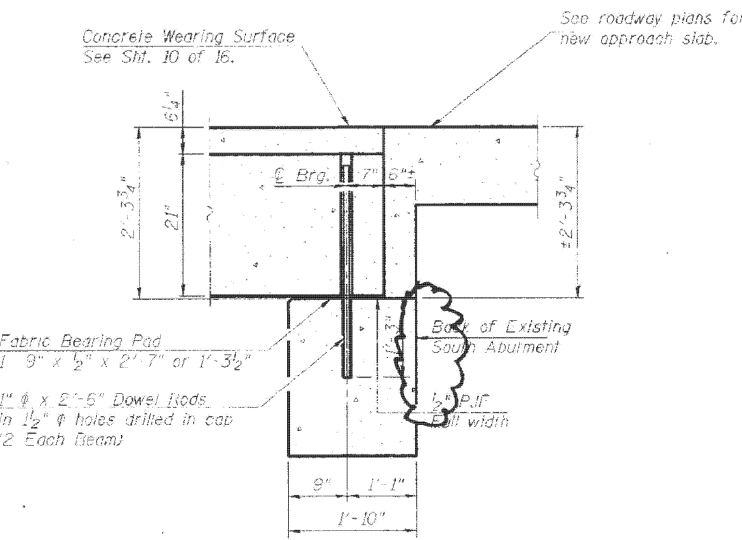


CROSS SECTION
(Looking South)



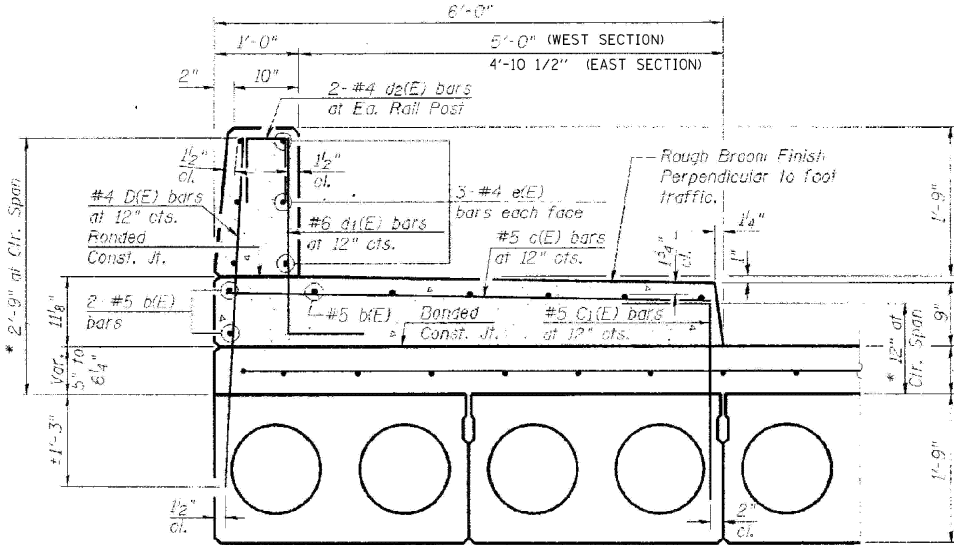
SECTION THRU NORTH ABUTMENT

SEE REVISED PLANS



SECTION THRU SOUTH ABUTMENT

SEE REVISED PLANS



SECTION THRU PARAPET & SIDEWALK

* D(E) and C₁(E) bar projection linearly varies from center span of beam to 1" greater at bearing ends.

- Notes:
1. After beams have been erected, holes shall be drilled into substructure and anchor dowels placed. Dowel holes shall be filled with non-shrink grout to top of beam and allowed to cure min. 24 hrs. prior to grouting the shear keys.
 2. All horizontal dimensions are at right angles to beam ends.
 3. See Sht. 7 of 16 for Bearing Pad Details.
 4. Existing dowel rods shall be burned off flush with the top of the abutment.

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING STRUCTURAL PLANS (SN 045-0020)

SCALE: SHEET OF 62 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2024-1008-BDS	VARIOUS	80	25
CONTRACT NO. 62X45				

ILLINOIS FED. AID PROJECT

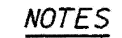


STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING STRUCTURAL PLANS (SN 045-0024)

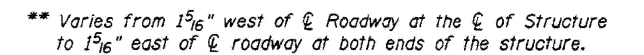
SCALE:	SHEET	OF 62 SHEETS	STA.	TO STA.
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F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2024-1008-BDS	VARIOUS	80	26
		CONTRACT NO. 62X45		
ILLINOIS		FED. AID PROJECT		



MIN. BAR LAP

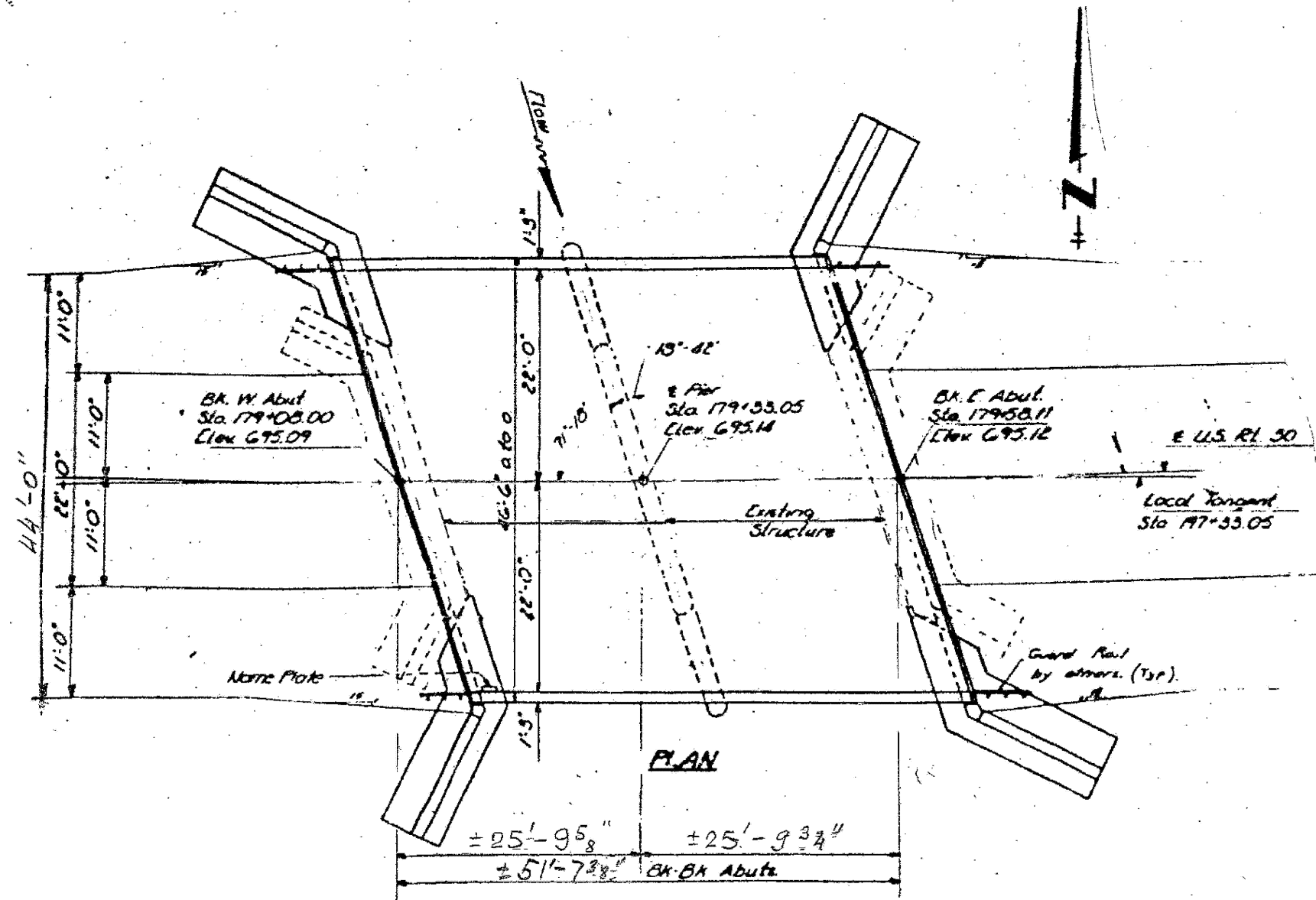
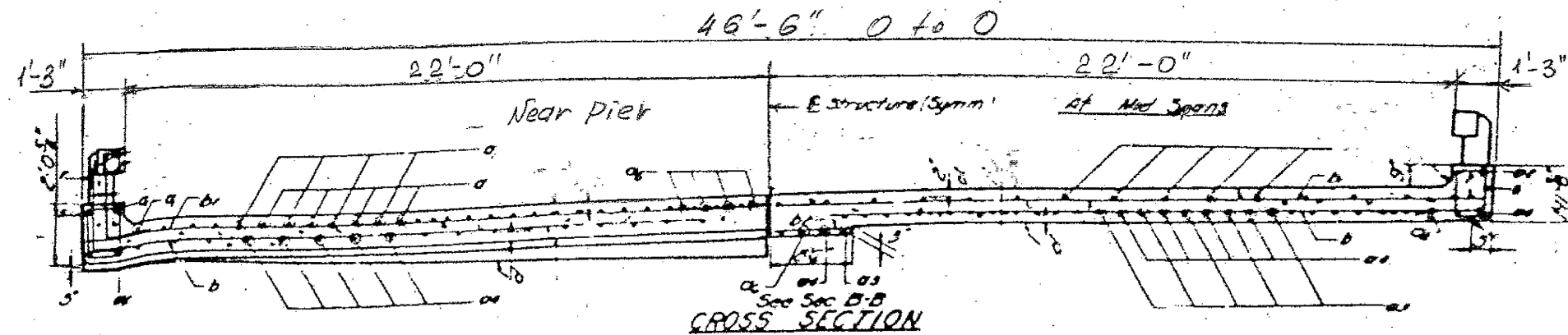
PLAN
(East Bound Structure shown, West Bound
structure is the same, but opposite hand)



SUPERSTRUCTURE
IL RTE. 56 OVER BLACKBERRY CREEK
STATION 202+10.00
STRUCTURE NO. 045-0026 (E.B.)
STRUCTURE NO. 045-0027 (W.B.)

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2024-1008-BDS	VARIOUS	80	28
		CONTRACT NO. 62X45		
		ILLINOIS	FED. AID PROJECT	

MODEL: 11-12B LOCATIONS (SN 045-0026-0027)
FILE NAME: c:\pw work\pwid\tham\wim\d1103949\D103025-sht-schedule.dgn



FOR INFORMATION ONLY

ILLINOIS DEPARTMENT OF
TRANSPORTATION

EXISTING PLANS
LOCATION 9 (SN 045-0034)

MODEL: 13-LOCATION 13 (SN 045-0034)
FILE NAME: c:\p\work\p\hamwi\103949\103949-shr-schedule.dgn

USER NAME = mohammad.hamwi	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 0.16666633' / in.	CHECKED -	REVISED -
PLOT DATE = 5/15/2025	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

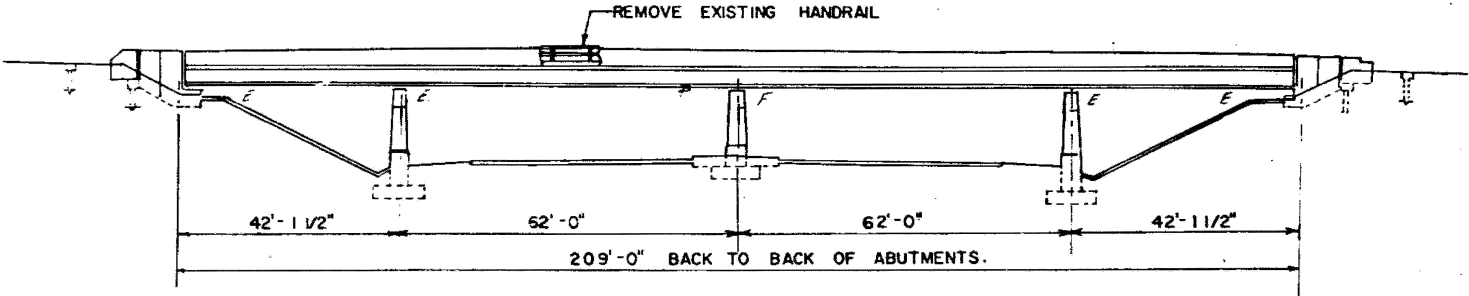
EXISTING STRUCTURAL PLANS (SN 045-0034)

SCALE: SHEET OF 62 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2024-1008-BDS	VARIOUS	80	29
CONTRACT NO. 62X45				
ILLINOIS FED. AID PROJECT				

FOR INFORMATION ONLY

SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
573 61 WRS-84	KANE		18
STA.	TO STA.		
100+00	100+00		
SHEET NO. 1 OF 16			



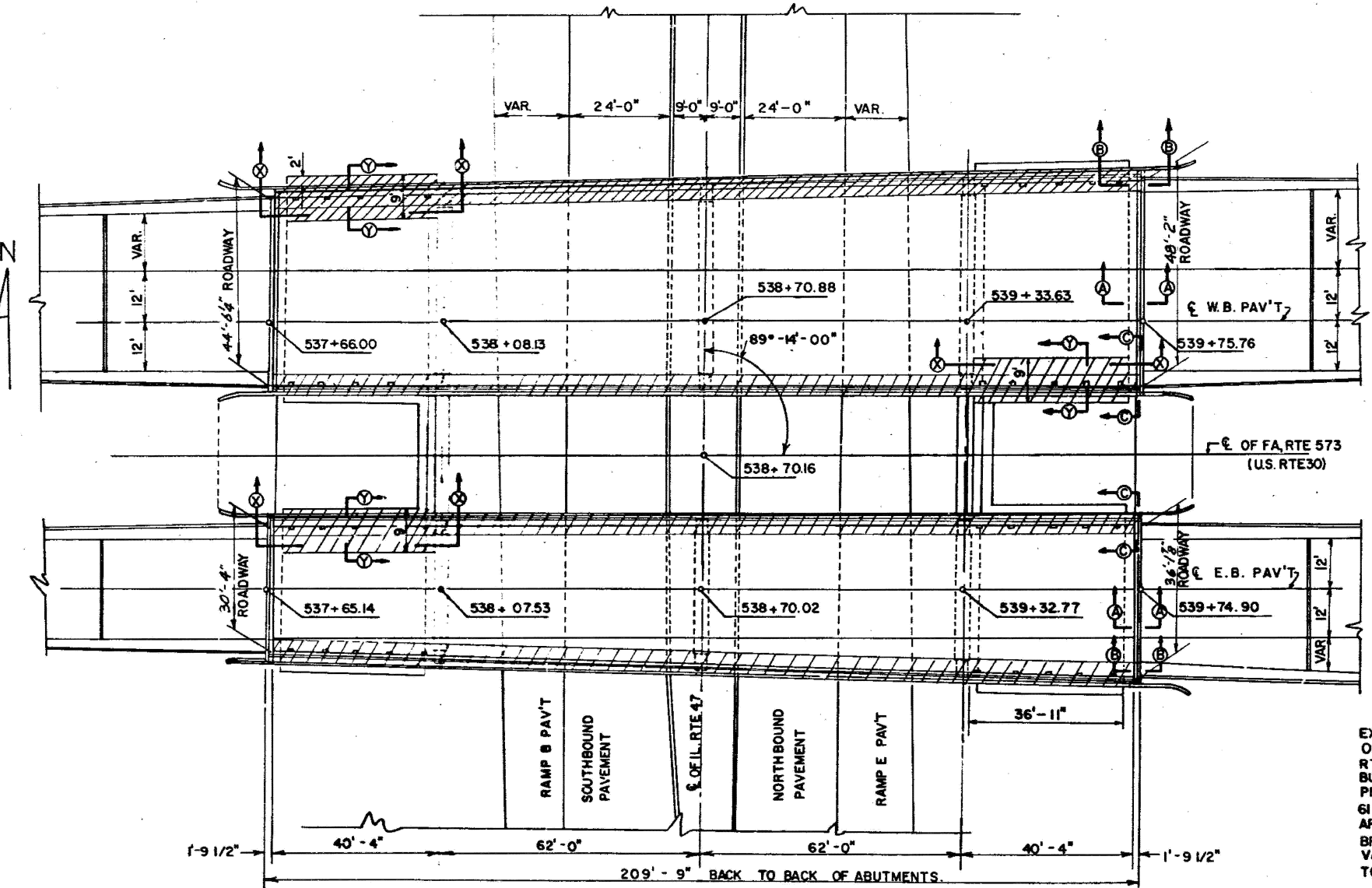
ELEVATION

B.M. = "I" CUT ON CONCRETE BASE IN
MEDIAN STRIP 12' RIGHT OF STATION
517+70, ELEV=714.11

ITEM	UNIT	QUANTITIES				TOTAL
		EASTBOUND		WESTBOUND		
		SUPER STR.	SUB STR.	SUPER STR.	SUB STR.	
PROTECTIVE COAT	SQ. YDS	900	61	1202	117	2,280
BRIDGE HANDRAIL REMOVAL	LIN. FT.	447	—	447	—	894
CLASS X CONCRETE	CU. YDS	191.3	4.6	201.7	6.7	404.3
REINFORCEMENT BARS	POUND	13,370	660	14,920	910	29,860
REINFORCEMENT BARS (Epoxy Coated)	POUND	13,520	—	17,350	—	30,870
CONCRETE REMOVAL	CU. YDS	98.1	4.4	115.5	6.3	224.3
PREFORMED JOINT SEAL 4"	LIN. FT.	72	—	116	—	188
REMOVAL & REPL. OF EXPANSION BEARINGS	EACH	12	—	18	—	30
REPAIR CONCRETE STRUCTURE	SQ. FT.	—	2	—	19	21
EPOXY CRACK SEALING	LIN. FT.	—	82	—	204	286
CLEAN & PAINT STEEL BRIDGE	L. SUM	1	—	1	—	2
SLOPE WALL 4"	SQ. YD.	—	53	—	106	159
STRAIGHTEN BEAM	EACH	2	—	3	—	5
FURN. & ERECT. STRUCTURAL STEEL	POUND	2,350	—	5,120	—	7,470
DECK SLAB REPAIR(FULL DEPTH)	SQ. YD.	1	—	5	—	6
DECK SLAB REPAIR(PARTIAL DEPTH)	SQ. YD.	105	—	125	—	230
BRIDGE DECK CONC. OVERLAY	SQ. YD.	755	—	1,051	—	1,806
CONCRETE DECK SCARIFICATION 1 3/4"	SQ. YD.	602	—	837	—	1,439
SLOPE WALL REMOVAL	SQ. YD.	—	53	—	106	159
DECK DRAINS	EACH	20	—	20	—	40

PLAN NOTES

1. FIELD WELDING OF CONSTRUCTION ACCESSORIES WILL NOT BE PERMITTED TO THE BOTTOM FLANGE OF BEAMS OR GIRDERS NOR TO THE TOP FLANGE FOR A DISTANCE EQUAL TO ONE-FOURTH THE SPAN LENGTH EACH WAY FROM THE PIER SUPPORTS. FIELD WELDING SHALL BE PERMITTED ONLY WHEN APPROVED BY THE ENGINEER.
2. CALCULATED WEIGHT OF STRUCTURAL STEEL - 7,470 lbs.
3. PLAN DIMENSIONS AND DETAILS RELATIVE TO EXISTING STRUCTURE HAVE BEEN TAKEN FROM EXISTING PLANS AND ARE SUBJECT TO NOMINAL CONSTRUCTION VARIATIONS. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY SUCH DIMENSIONS AND DETAILS IN THE FIELD 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 THE SCOPE OF THE WORK, HOWEVER, THE CONTRACTOR WILL BE PAID FOR THE QUANTITY ACTUALLY FURNISHED AT THE UNIT PRICE BID FOR THE WORK.
4. REINFORCEMENT BARS SHALL CONFORM TO THE REQUIREMENTS OF AASHTO M-31 OR M-53 GRADE 60.
5. THE CONTRACTOR MUST USE EXTREME CARE SO AS NOT TO CUT, DAMAGE, OR NICK THE BEAMS DURING THE PARTIAL DECK REMOVAL & FULL DEPTH DECK SLAB REPAIRS.
6. All new structural steel shall be shop painted with the basic lead silico chromate paint.
7. Deleted.
8. NAME PLATES: THE EXISTING NAME PLATES SHALL BE RELOCATED ON THE FACE OF THE NEW PARAPET WALL IN A LOCATION AS DETAILED IN STANDARD 2113 USING NEW ANCHORS. THE COST OF THIS WORK AND ANY MATERIALS REQUIRED SHALL BE CONSIDERED AS INCIDENTAL.
9. Deleted.
10. SLOPE WALL SHALL BE REINFORCED WITH WELDED WIRE FABRIC, 6"x6"-W4.0 x W4.0, WEIGHING 58 LBS. PER 100 SQ. FT. (SEE DET. E-14.1 TO SUPERWALL)



PLAN

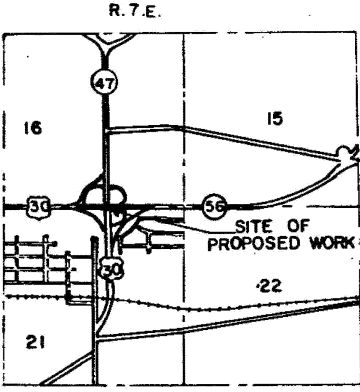
NOTE:
FOR SECTIONS A-A, B-B & C-C SEE SHEET NO. 9
FOR SECTIONS X-X & Y-Y SEE SHEET NO. 8

NEW DESIGN STRESSES
fy = 60,000 psi (Reinf.)
fc = 4,000 psi (Conc.)
fs = 20,000 psi (Str. Steel)

LOADING HS 20-44
No allowance for future wearing surface.

SPECIFICATIONS
AASHTO 1977 AND IN-TERM SPECIFICATION 1978 THRU '83 AS APPLICABLE

EXISTING STRUCTURES NO. 045-0035 & 045-0036 CARRYING U.S. RTE. 30 OVER ILL. RTE. 47 WERE BUILT IN 1959 AS F.A. ROUTE 141 PROJECT F-389(27) SECTION 61, 61 HB, 61 HB-1. THE STRUCTURES ARE 4-SPAN CONTINUOUS W/ BEAM BRIDGE WITH 7" CONCRETE DECK VARIABLE IN WIDTH, AND 209'-9" BK. TO BK. ABUTMENTS.



LOCATION SKETCH

EXIST. DESIGN STRESSES
fy = 20,000 psi (Reinf.)
fc = 18,000 psi (Str. Steel)
fs = 1400 psi (Super & Piers)
fs = 1000 psi (other Substr.)

APPROVED AND SEALED
FOR STRUCTURAL ENGINEER
Carol K. Korman
Engineer of Structures

ILLINOIS DEPARTMENT OF TRANSPORTATION
GENERAL PLAN AND ELEVATION
F.A. ROUTE 573 OVER ILL. RTE 47
SECTION 61 WRS-84
KANE COUNTY
STATION 538+70.88

REVISIONS	
NAME	DATE

SCALE VERT. HORIZ.
DATE
DRAWN BY
CHECKED BY

USER NAME = mohammad.hamwi	DESIGNED -	REVISED -
PLOT SCALE = 0.16666633' / in.	DRAWN -	REVISED -
PLOT DATE = 5/15/2025	CHECKED -	REVISED -
	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING STRUCTURAL PLANS (SN 045-0035 & SN 045-0036)

SCALE: SHEET OF 62 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	2024-1008-BDS	VARIOUS	80	30
CONTRACT NO. 62X45				
ILLINOIS / FED. AID PROJECT				

MODEL: 14-15 LOCATIONS (SN 045-0035-0036)
FILE NAME: c:\pwworking\hamwi\1103949.D 103025-shr-schedule.dgn

Existing Structure: Structure Number 045-0037, originally built in 1961 as FA Rte 141 under Section 61-HB-1. In 1969, the structure was widened to the South as FA Route 141 Section 61-K. In 1992, as FAU 1521 under Section 61(HB-&K)I-DL, the concrete slope walls were removed and replaced with bituminous coated aggregate slope walls. The structure is a four span continuous steel beam bridge supported by stub abutments and multi-column piers on pile supported footings. The back to back abutment length is 248'-10" and the out to out width varies 82'-10 to 88'-10₄". The steel beams have cover plates at Piers 1 and 2 and the newer south portion is composite. Staged construction shall be utilized to maintain one lane of traffic in each direction at all times.

Salvage existing bridge rail.

INDEX OF SHEETS

1. General Plan and Elevation
2. General Data
3. Slope Wall Details
4. Stage Construction Details
5. Temporary Concrete Barrier for Stage Construction
- 6.-11. Top of Slab Elevations
- 12.-13. Top of Approach Slab Elevations
14. Superstructure
- 15.-17. Superstructure Details
- 18.-21. Bridge Approach Slab Details
22. Preformed Joint Strip Seal
23. Drainage Scupper, DS-11
24. Drainage Scupper, DS-12
25. Framing Plan and Design Data
- 26.-27. Steel Details
28. Bearing Removal Details
29. Abutment Bearing Details
- 30.-31. Pier Bearing Details
32. Concrete Removal Details
33. West Abutment Details
34. East Abutment Details
35. Abutment Details
- 36.-37. Pier 2 Pedestal Details
38. Pier Repairs
39. Bar Splicer Assembly Details

DESIGN STRESSES

FIELD UNITS

NEW CONSTRUCTION

$f'_c = 3,500 \text{ psi}$
 $f_y = 60,000 \text{ psi (Reinforcement)}$
 $f_y = 36,000 \text{ psi (Structural Steel) (M270 Gr. 36)}$

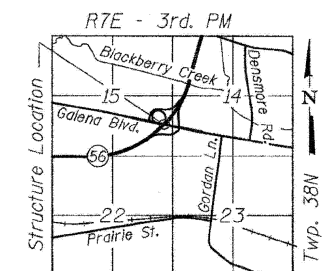
EXISTING W.B. CONSTRUCTION

$f_c = 1,400 \text{ psi}$
 $f_s = 20,000 \text{ psi (Reinforcement)}$
 $f_s = 18,000 \text{ psi (Structural Steel)}$

EXISTING E.B. CONSTRUCTION

$f_c = 1,200 \text{ psi (Slab)}$
 $f_c = 1,400 \text{ psi (Sub, Parapet \& Curb)}$
 $f_s = 20,000 \text{ psi (Reinforcement)}$
 $f_s = 20,000 \text{ psi (Structural Steel)}$

Note:
Scuppers in Spans 1 & 4 shall be free falling
while scuppers in Spans 2 & 3 shall be
connected to a closed drainage system.



LOCATION SKETCH

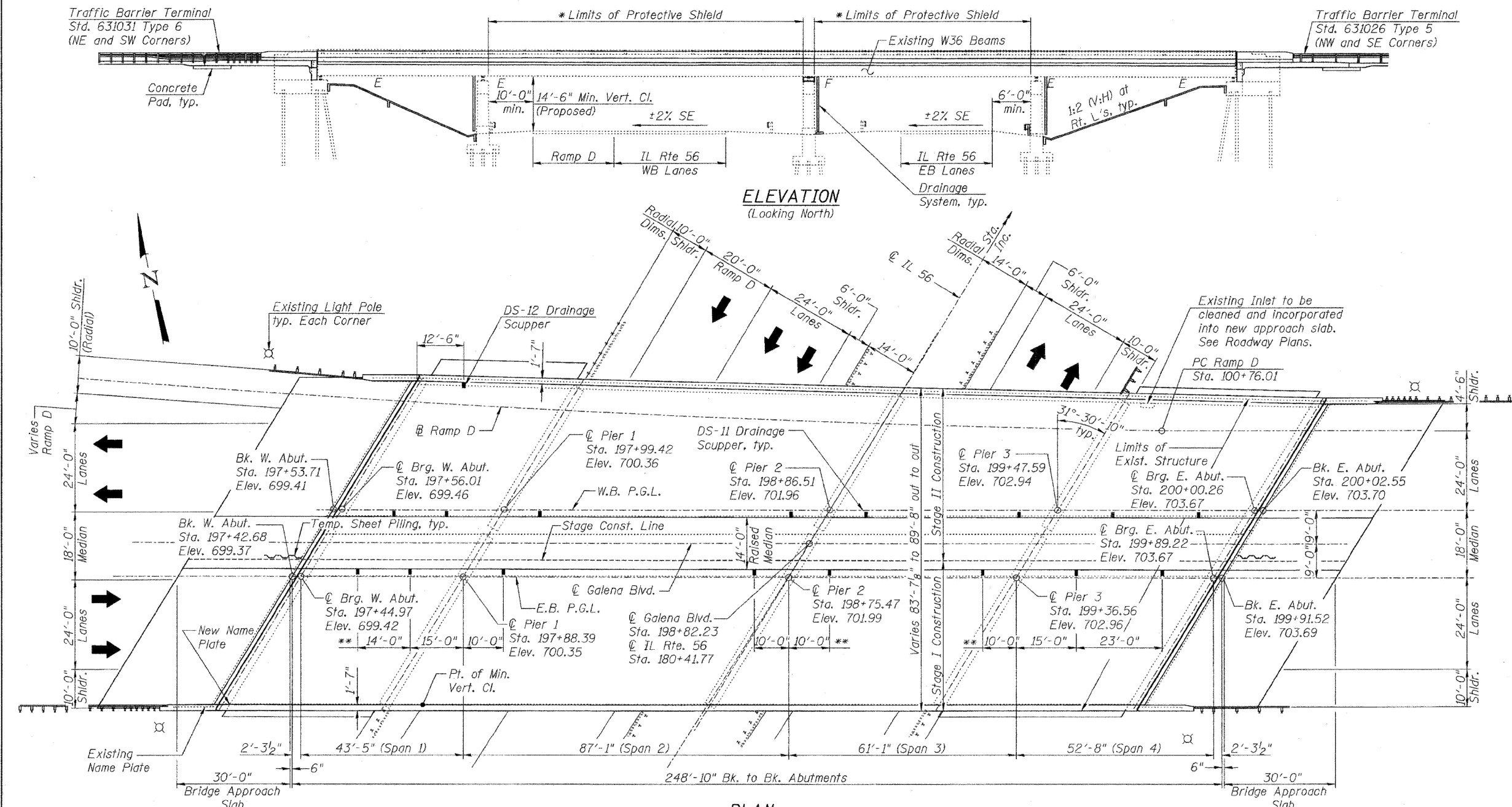
GENERAL PLAN AND ELEVATION
GALENA BOULEVARD OVER IL 56

FAP 573 - SECTION 61HB-1-R

KANE COUNTY

STATION 198+82.23

STRUCTURE NO. 045-0037



DESIGN SPECIFICATIONS

(New Construction)
2002 AASHTO "Standard Specifications
for Highway Bridges"

LOADING HS 20-44

Allow 25 psf for future wearing surface.

SEISMIC DATA

Seismic Performance Category (SPC) = A
Bedrock Acceleration Coefficient (A) = 0.037 g
Site Coefficient (S) = 1.0

CURVE DATA

(IL Rte. 56)

$\Delta = 74^{\circ}-45'-12''$ LT.
 $D = 1^{\circ}-14'-59''$
 $T = 3502.37'$
 $L = 5981.73'$
 $E = 1184.69'$
 $R = 4584.79'$
 $P.C. = Sta. 143+51.79$
 $P.T. = Sta. 203+33.52$
 $P.L. = Sta. 178+54.16$

CURVE DATA

(Ramp D)

$\Delta = 5^{\circ}-22'-41''$ RT.
 $D = 1^{\circ}-13'-33''$
 $T = 219.51'$
 $L = 438.69'$
 $E = 5.15'$
 $R = 4673.76'$
 $P.C. = Sta. 100+76.01$
 $P.T. = Sta. 105+14.70$
 $P.I. = Sta. 102+95.52$

APPROVED
FOR STRUCTURAL ADEQUACY ONLY

H. Carl Poyner
ENGINEER OF BRIDGES AND STRUCTURES



Michael J. Haley 8-26-2011
Michael T. Haley Date

Michael T. Haley
Licensed Structural Engineer
State of Illinois No. 81-5991
Expires 11/30/2012

USER NAME = mohammad.hamwi	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 0,18686633' / in.	CHECKED -	REVISED -
PLOT DATE = 5/15/2025	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING STRUCTURAL PLANS (SN 045-0037)

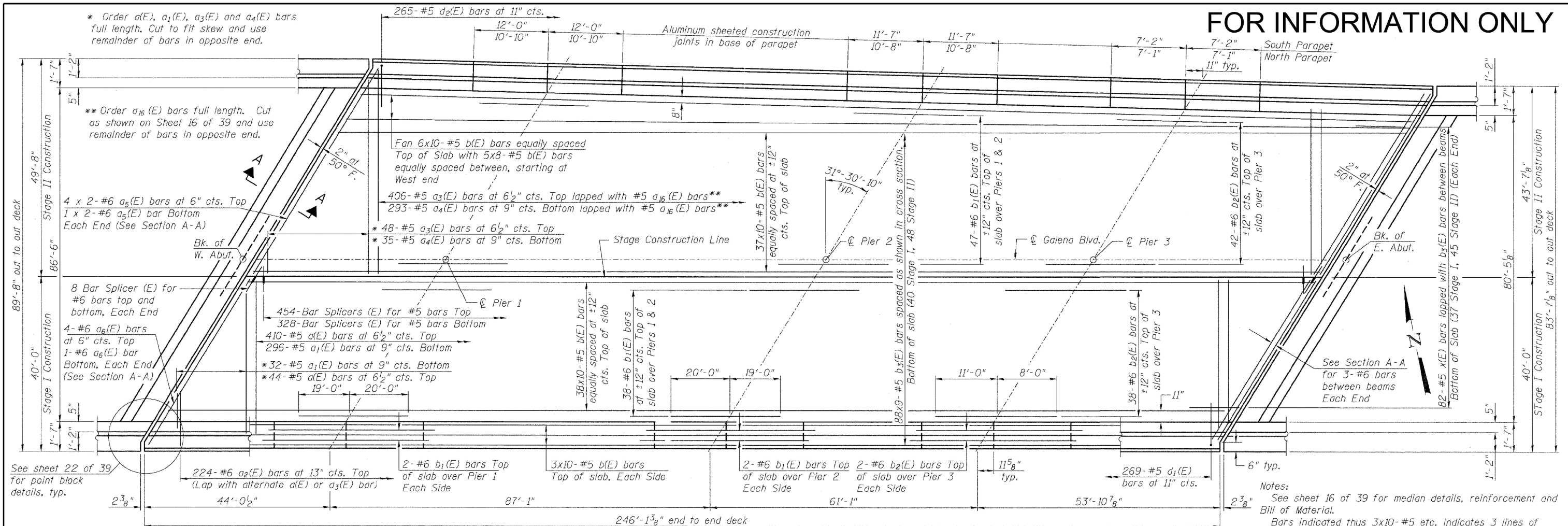
SCALE:	SHEET	OF 62 SHEETS	STA.	TO STA.
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F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2024-1008-BDS	VARIOUS	80	31
		CONTRACT NO. 62X45		
		ILLINOIS	FED. AID PROJECT	

ILLINOIS	FED. AID PROJECT
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MODEL: 16A-LOCATION 16A (SN 045-0037)
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FOR INFORMATION ONLY

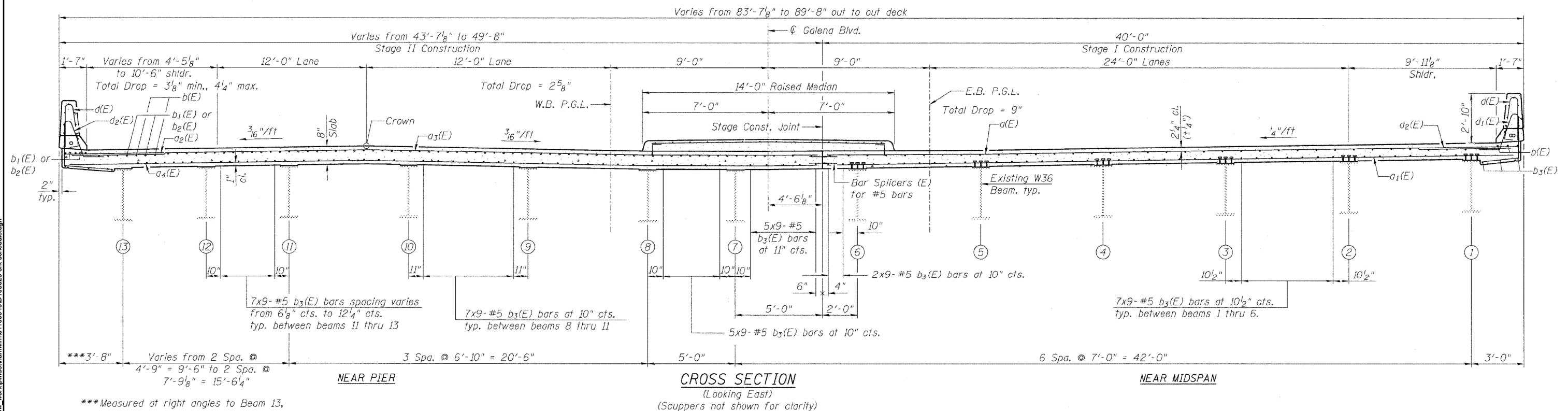


MIN. BAR LAP

#5 Bar = 2'-7"
#6 Bar = 3'-1"

PLAN

(Median not shown for clarity)



*** Measured at right angles to Beam 13.

USER NAME = mohammad.hamwi	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 0,16666633 ' / in.	CHECKED -	REVISED -
PLOT DATE = 5/15/2025	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING STRUCTURAL PLANS (SN 045-0037)

SCALE:	SHEET	OF 62 SHEETS	STA.	TO STA.
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F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2024-1008-BDS	VARIOUS	80	32
		CONTRACT NO. 62X45		
		ILLINOIS	FED. AID PROJECT	

MODEL: 16B-LOCATION 16B (SN 045-0037)
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MODEL: 17B-LOCATION 17B (SN 045-0039)
FILE NAME: c:\p\work\kwd\hamw\md1103949D\03026-shr-schedule.dgn

FOR INFORMATION ONLY

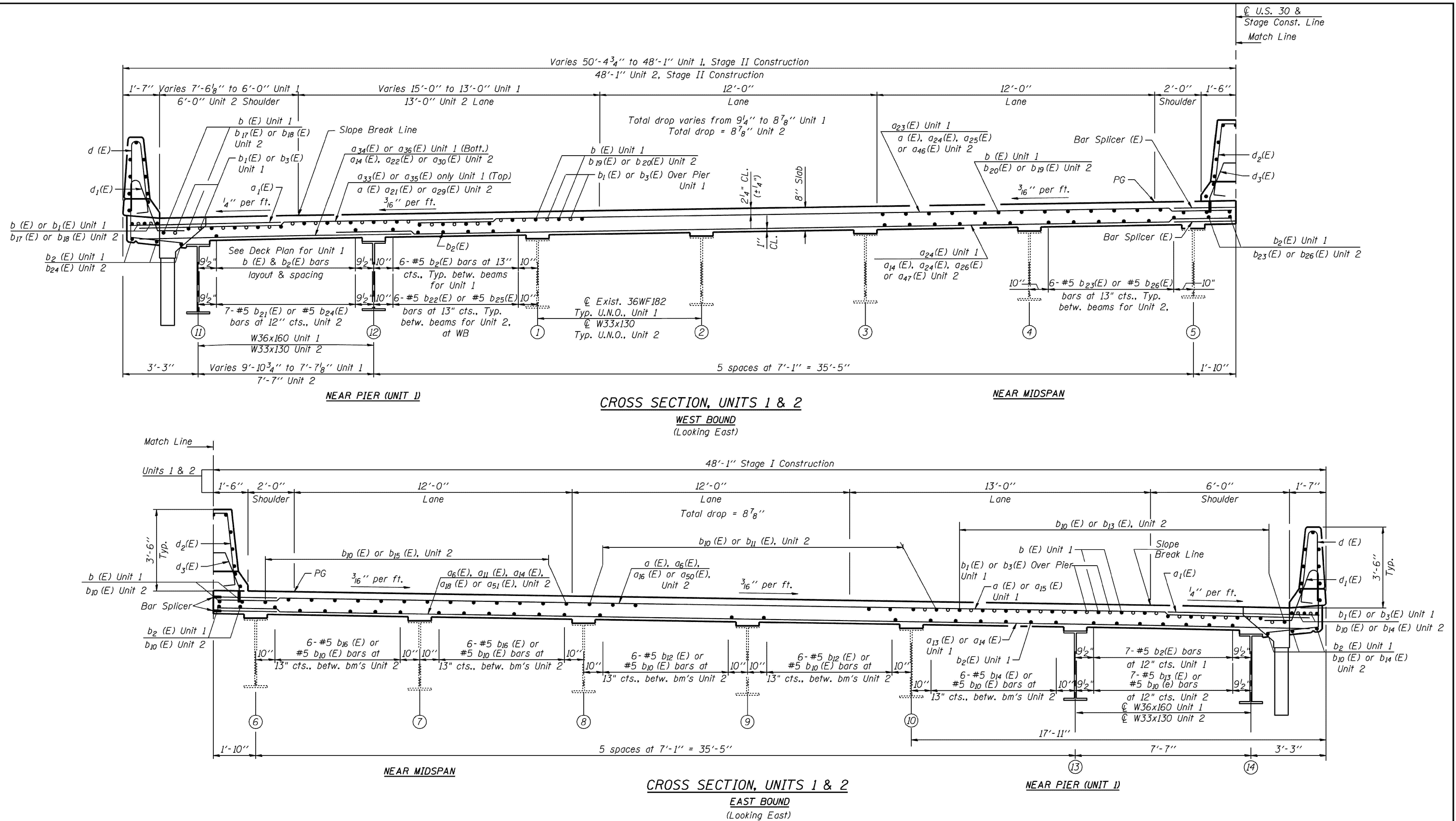
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	DRAWN -	REVISED -
PLOT SCALE = 0.16666633' / in.	CHECKED -	REVISED -
PLOT DATE = 5/15/2025	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING STRUCTURAL PLANS (SN 045-0039)

SCALE: SHEET OF 62 SHEETS STA. TO STA.

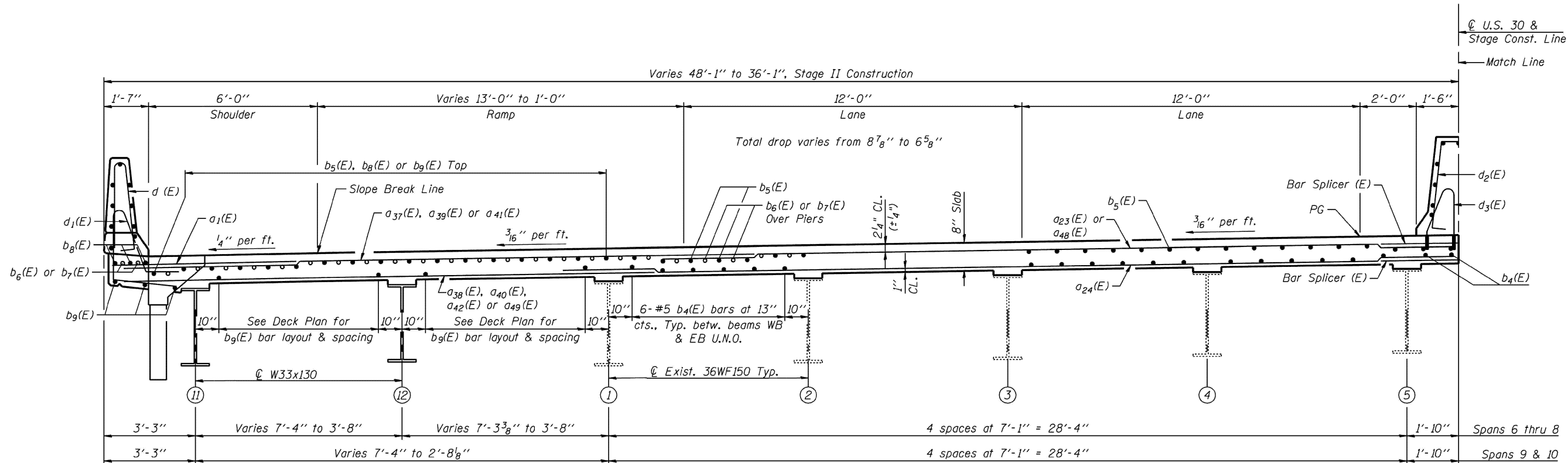
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2024-1008-BDS	VARIOUS	80	34
CONTRACT NO. 62X45				
ILLINOIS FED. AID PROJECT				



NOTES

- See Sheets S34 thru S36 for deck details, parapet reinforcement, and Bill of Material.
- See Sheets S4 and S5 for Construction Staging.
- Cut longitudinal reinforcement to clear drainage scuppers.

MODEL: 17C-LOCATION 17C (SN 045-0039)
FILE NAME: c:\p\work\kwd\hamwi\103949D\103925-shr-schedule.dgn

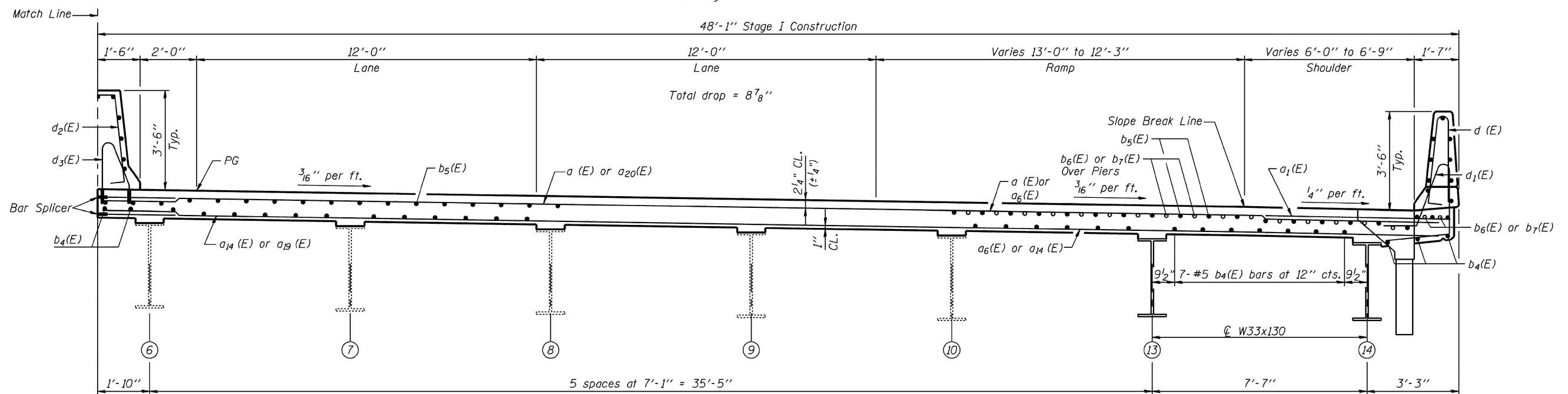


NEAR PIER

CROSS SECTION, UNIT 3

WEST BOUND
(Looking East)

NEAR MIDSPAN



NEAR MIDSPAN

CROSS SECTION, UNIT 3

EAST BOUND
(Looking East)

NEAR PIER

NOTES

- See Sheets S34 thru S36 for deck details, parapet reinforcement, and Bill of Material.
- See Sheets S4 and S5 for Construction Staging.
- Cut longitudinal reinforcement to clear drainage scuppers.

FOR INFORMATION ONLY

USER NAME = mohammad.hamwi	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 0.16666633' / in.	CHECKED -	REVISED -
PLOT DATE = 5/15/2025	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING STRUCTURAL PLANS (SN 045-0039)

SCALE: SHEET OF 62 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2024-1008-BDS	VARIOUS	80	35
CONTRACT NO. 62X45				
ILLINOIS FED. AID PROJECT				

FOR INFORMATION ONLY

Benchmark: Chiseled box on top of parapet at S.E. corner of existing bridge. Elev. = 100.00

Existing Structure: No. 045-0045 built in 1967.
Two span, 65'-5" Bk-Bk Abut. P.P.C. Deck Beams 46'-0" O.-O.
Concrete parapet with aluminum handrail on top.
4" CWS added in 1988.

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	SHEET NO.	SHEET TOTAL
SA 13		Kane	27	7
SHEET NO. 1				
10 SHEETS				

Contract # 60B81

INDEX OF SHEETS

- General Plan & Elevation
- General Notes and Total Bill of Material
- Stage Construction
- Temporary Concrete Barrier
- Superstructure Details - 17" Deck Beams
- Superstructure Details - Sections and Joint Details
- Roll Post Spacing and Concrete Wearing Surface
- Steel Railing, Type SM w/ Concrete Wearing Surface
- Bar Splicer Assembly Details
- Substructure Repairs

LOADING HS20-44

No. Allowance for future wearing surface

DESIGN SPECIFICATIONS

2002 AASHTO Standard Specifications

DESIGN STRESSES

FIELD UNITS

$f'_c = 3,500$ psi

$f_y = 60,000$ psi (reinforcement)

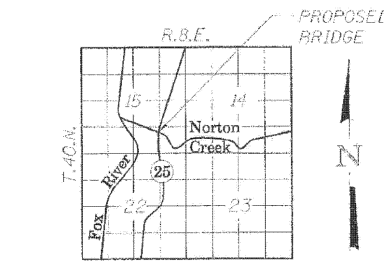
PRECAST PRESTRESSED UNITS

$f'_c = 5,000$ psi

$f'_a = 4,000$ psi

$f'_s = 270,000$ psi (1/2" ϕ low lax strands)

$f'_a = 201,960$ psi (1/2" ϕ low lax strands)



LOCATION SKETCH

GENERAL PLAN & ELEVATION

S.A. 13 (IL RTE. 25)

OVER NORTON CREEK

S.A. RTE. 13 (F.A.S. 106)

KANE COUNTY, STA. 61+92.50

STRUCTURE NO. 045-0045



STS CONSULTANTS
111 NE Jefferson Ave.
Peoria, Illinois 61602
PH: (309) 676-9464
FAX: (309) 676-5445
IL Design Firm Reg. No. 184-001518

APPROVED
FOR STRUCTURAL ADEQUACY ONLY

Ralph E. Anderson
ENGINEER OF BRIDGES AND STRUCTURES



License Expires: 11/30/08
Date Signed: 6-4-07

DESIGNED	DDH
CHECKED	LLV
DRAWN	MGM
CHECKED	DDH

EXAMINED	200
PASSED	ENGINEER OF BRIDGE DESIGN
	ENGINEER OF BRIDGES AND STRUCTURES

New Name Plate and re-located Name Plate location

PLAN

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING STRUCTURAL PLANS (SN 045-0045)

SCALE: SHEET OF 62 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2024-1008-BDS	VARIOUS	80	36
CONTRACT NO. 62X45				
ILLINOIS FED. AID PROJECT				

USER NAME = mohammad.hamwi	DESIGNED -	REVISED -
PLOT SCALE = 0.16666633' / in.	DRAWN -	REVISED -
PLOT DATE = 5/15/2025	CHECKED -	REVISED -
	DATE -	REVISED -

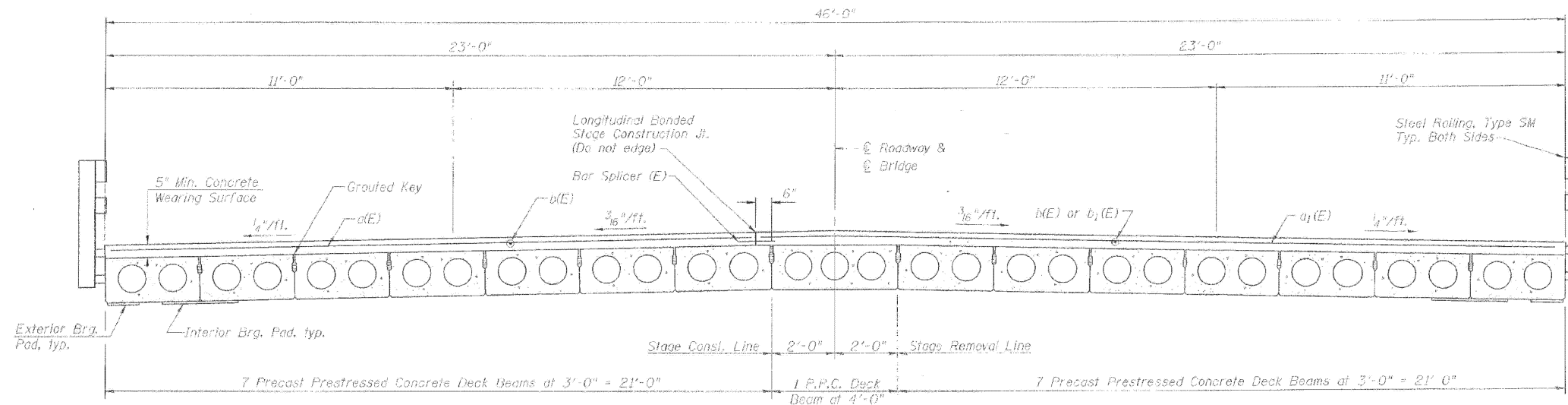
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FOR INFORMATION ONLY

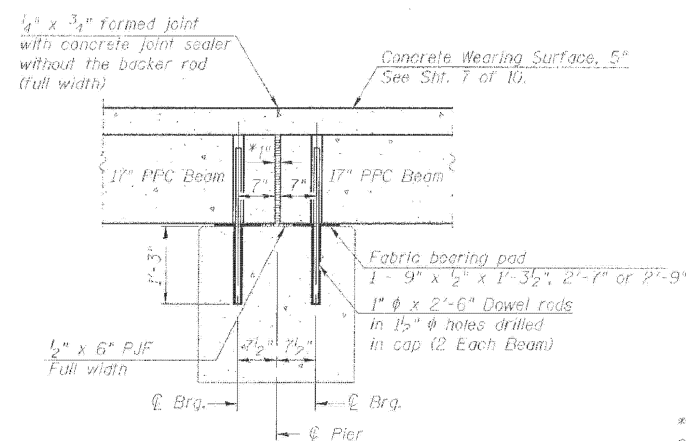
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

POLY. NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
SA 13		Kane	27	12
FIG. 1000-001-10-7	1000-001-10-7	1000-001-10-7	1000-001-10-7	1000-001-10-7

Contract # 60B81

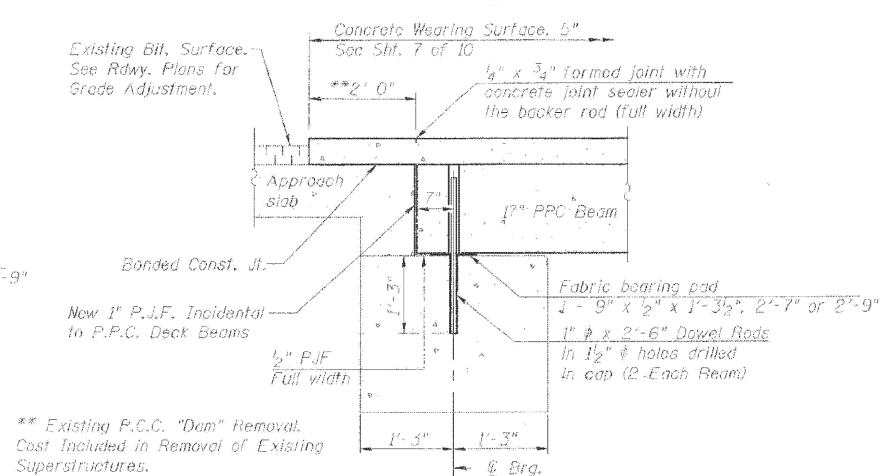


CROSS SECTION
(Looking South)

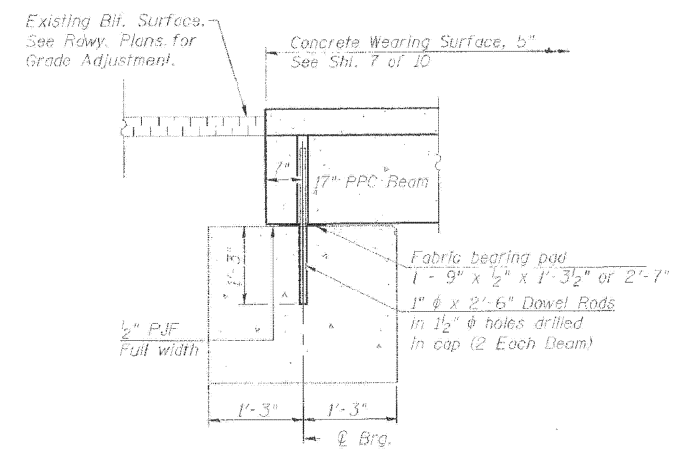


SECTION THRU FIXED PIER

*1" Jt. shall be filled with non-shrink grout. 1" dimension may vary to accommodate tolerance in beam lengths.



SECTION THRU ABUTMENT
AT APPROACH SLAB



SECTION THRU ABUTMENT
AT SHOULDERS

SUPERSTRUCTURE DETAILS
SECTIONS AND JOINT DETAILS
S.A. 13 (IL RTE. 25)
OVER NORTON CREEK
S.A. RTE. 13 (F.A.S. 106)
KANE COUNTY, STA. 61+92.50
STRUCTURE NO. 045-0045



STS Consultants
111 N.E. Jefferson Ave.
Peoria, Illinois 61602
Ph(309)676-8484
FAX(309)676-8446
IL Design Firm Reg. No. 184-001518

Notes:

- After beams have been erected, holes shall be drilled into substructure and anchor dowels placed. Dowel holes shall be filled with non-shrink grout to top of beam and allowed to cure min. 24 hrs. prior to grouting the shear keys.
- All horizontal dimensions are at right angles to beam ends.
- See Sht. 5 of 10 for bearing pad details.
- Existing dowel rods shall be burned off flush with the top of the abutment or pier.

DESIGNED	DDB
CHECKED	LLV
DRAWN	MGM
CHECKED	DDB

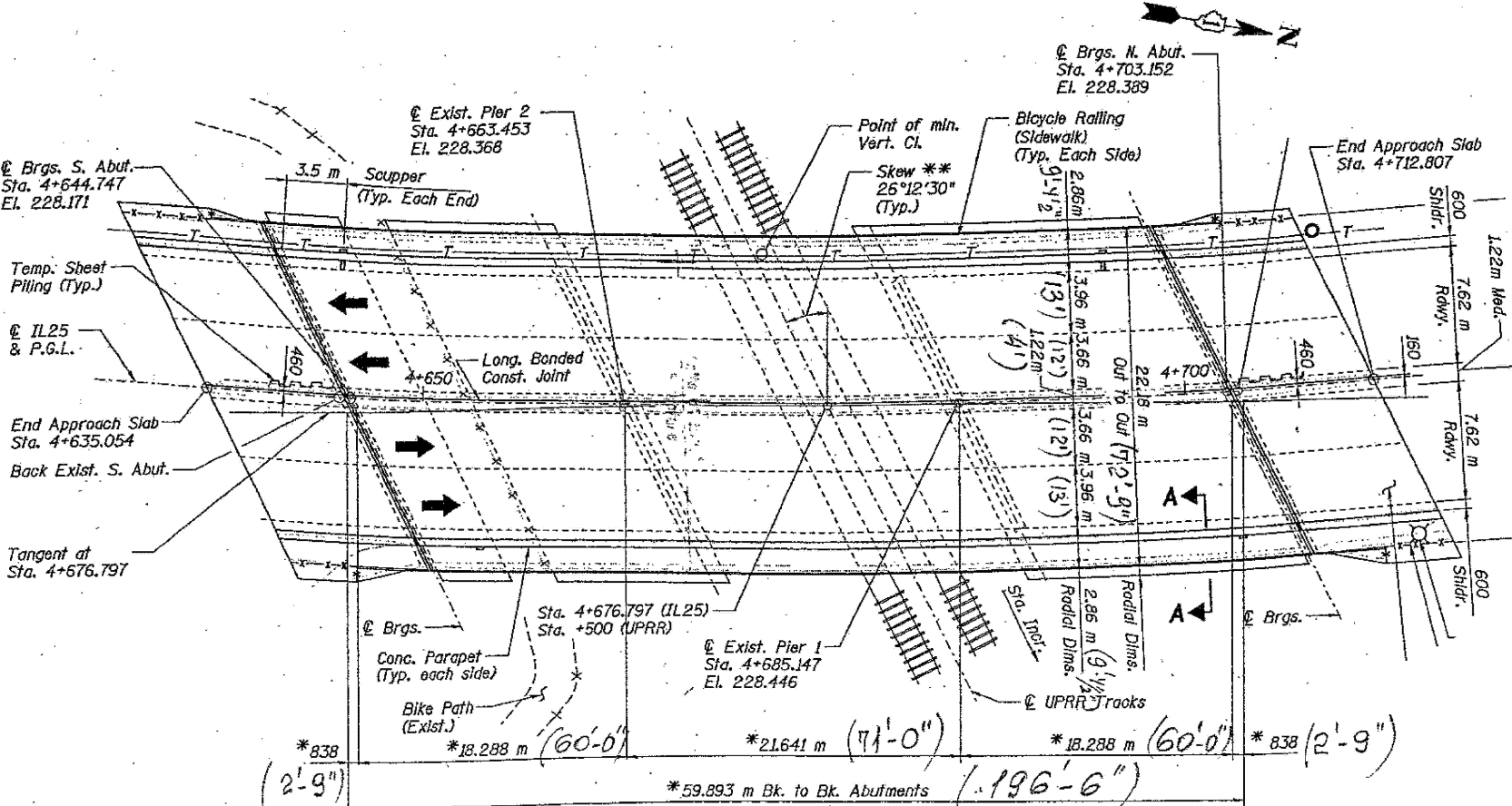
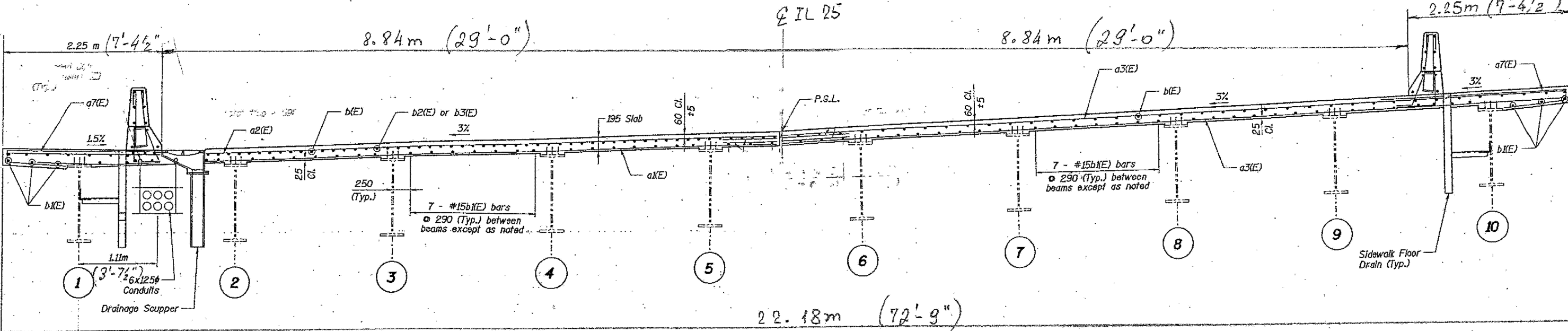
EXAMINED	200
PASSED	ENGINEER OF BRIDGE DESIGN
	ENGINEER OF BRIDGES AND STRUCTURES

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING STRUCTURAL PLANS (SN 045-0045)

SCALE: SHEET OF 62 SHEETS STA. TO STA.

FA. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2024-1008-BDS	VARIOUS	80	37
CONTRACT NO. 62X45				
ILLINOIS FED. AID PROJECT				



PLAN

FOR INFORMATION ONLY

ILLINOIS DEPARTMENT OF
TRANSPORTATION

EXISTING PLANS
LOCATION 10 (SN 045-0046)

MODEL: 19-LOCATION 10 (SN 045-0046)
FILE NAME: c:\p\work\kwd\hamw\103949D\103949-sh-schedule.dgn

USER NAME = mohammad.hamwi	DESIGNED -	REVISED -
PLOT SCALE = 0.16666633' / in.	DRAWN -	REVISED -
PLOT DATE = 5/15/2025	CHECKED -	REVISED -
	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING STRUCTURAL PLANS (SN 045-0046)

SCALE: SHEET OF 62 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2024-1008-BDS	VARIOUS	80	38
CONTRACT NO. 62X45				
ILLINOIS FED. AID PROJECT				

BENCH MARK

U.S.C. & G.S. H-131-1947
15 RT. STATION 145+08 ELEVATION 865.04

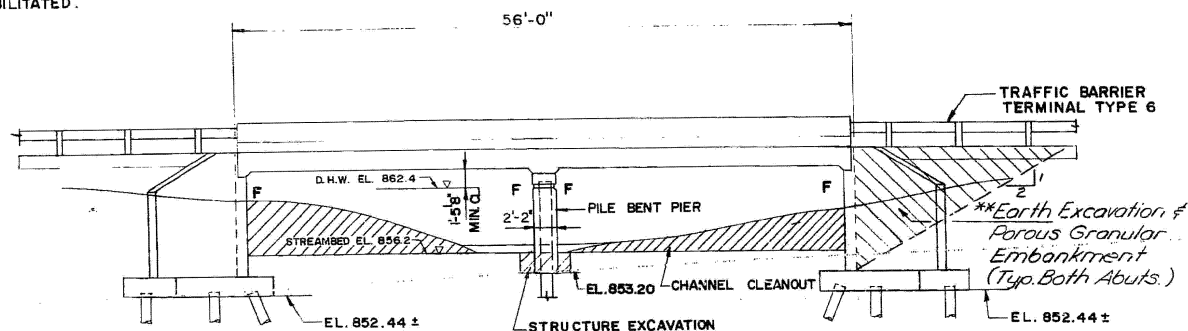
NOTES:

ALL DIMENSIONS FOR EXISTING WORK TO BE
VERIFIED BY THE CONTRACTOR.

EXISTING STRUCTURE

TWO SPAN CONC. SLAB SUPERSTRUCTURE
SUPPORTED BY CLOSED ABUTMENTS
AND SOLID PIER, PIER AND SUPERSTRUCTURE
TO BE REMOVED COMPLETELY AND
ABUTMENTS TO BE REHABILITATED.
SALVAGE HANDRAILS.

FOR INFORMATION ONLY



ELEVATION

** Hatched area to be removed before
existing superstructure is removed.
Porous Granular Embankment to be
placed after new superstructure
is in place.

TOTAL BILL OF MATERIALS				
ITEM	UNIT	SUPER	SUB	TOTAL
* REMOVAL OF EXISTING STRUCTURES NO. 1	EACH			1
CLASS X CONCRETE	CU. YD.	106.5	80.8	187.3
REINFORCEMENT BARS	LBS.	13,030	8050	21080
REINFORCEMENT BARS EPOXY COATED	LBS.	6790	-	6790
PROTECTIVE COAT	SQ. YD.	199		199
STRUCTURE EXCAVATION	CU. YDS.		13.6	13.6
CONCRETE REMOVAL	CU. YD.		7.0	7.0
TEST PILE CONCRETE	EA.		1	1
CONCRETE PILES	LN. FT.		240	240
CREOSOTED PILES	LN. FT.		264	264
EXPANSION BOLTS - 3/4" Ø	EACH		136	136
NAME PLATES	EA.		1	1
Earth Excavation	CU. Yds		212	212
Porous Granular Embankment	CU. Yds		212	212

* SEE SPECIAL PROVISIONS

DESIGN SPECIFICATIONS:

A.A.S.H.T.O. 1977 & INTERIMS 1978, 1979 & 1980, STANDARD
SPECIFICATIONS FOR HIGHWAY BRIDGES.
STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE
CONSTRUCTION STATE OF ILLINOIS DATED OCT. 1, 1979

DESIGN CRITERIA:

LOAD FACTOR DESIGN (FOR SUPERSTRUCTURE ONLY)
LIVE LOAD: HS 20-44
ALLOW 25 P.S.F. FOR FUTURE WEARING SURFACE

DESIGN STRESSES:

REINFORCED CONCRETE
F_c = 3500 PSI, DECK SLAB
F_v = 118 PSI
N = 9

REINFORCEMENT

FY = 60,000 PSI GRADE 60

CONSTRUCTION:

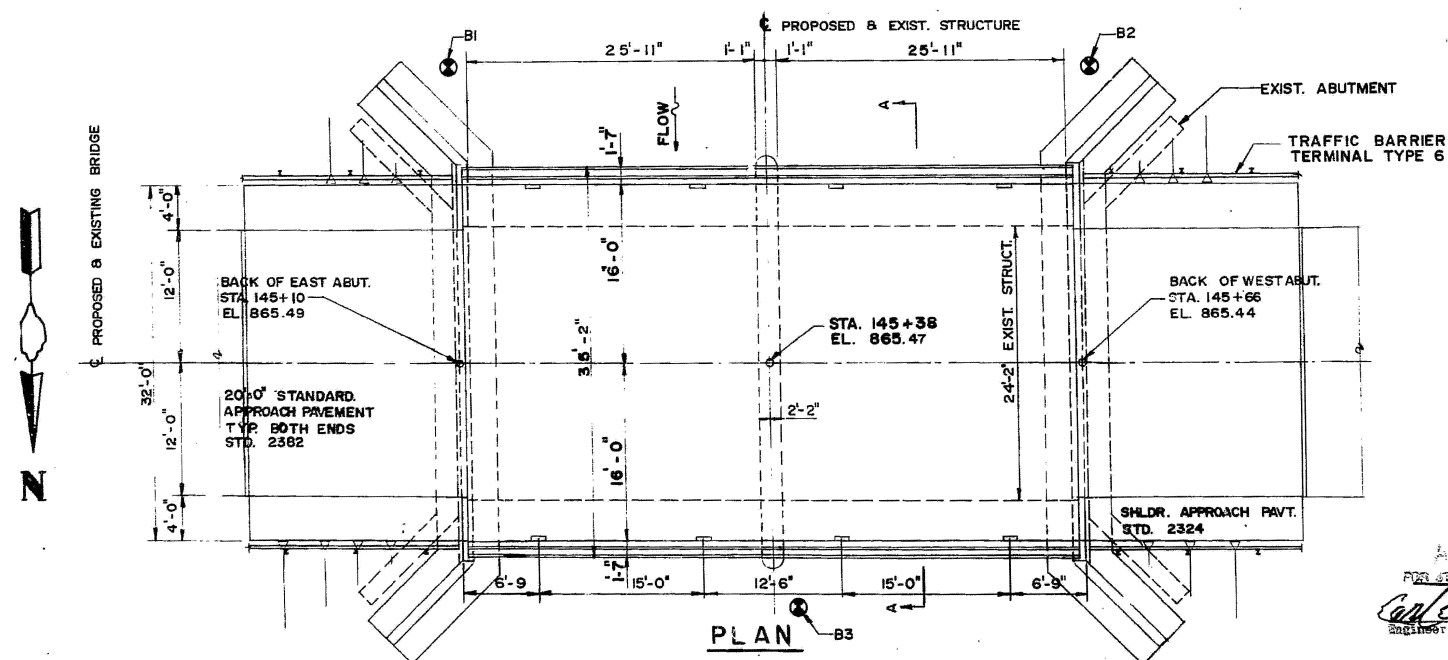
REINFORCEMENT BARS SHALL CONFORM TO A.A.S.H.T.O.
M-31 OR M-53 GRADE 60

THE CONTRACTOR SHALL DRIVE ONE CONCRETE TEST PILE
IN A PERMANENT LOCATION AT PIER AS DIRECTED BY
THE ENGINEER BEFORE ORDERING THE REMAINDER OF PILES

THE CONTRACTOR SHALL MAKE ALLOWANCE FOR THE
DEFLECTION OF FORMS, SHRINKAGE AND SETTLEMENT
OF FALSEWORK, IN ADDITION TO ALLOWANCE FOR
DEAD LOAD DEFLECTION.

PLAN DIMENSIONS AND DETAILS RELATIVE TO EXISTING
STRUCTURE HAVE BEEN TAKEN FROM EXISTING PLANS &
ARE SUBJECT TO NOMINAL CONSTRUCTION VARIATIONS.
IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO
VERIFY SUCH DIMENSIONS & DETAILS IN THE FIELD &
MAKE NECESSARY APPROVED ADJUSTMENTS PRIOR TO
CONSTRUCTION OR ORDERING OF MATERIALS. SUCH
VARIATIONS SHALL NOT BE CAUSE FOR ADDITIONAL
COMPENSATION FOR A CHANGE IN THE SCOPE OF THE
WORK, HOWEVER, THE CONTRACTOR WILL BE PAID FOR THE
QUANTITY ACTUALLY FURNISHED AT THE UNIT PRICE BID
FOR THE WORK.

EXPANSION BOLTS SHALL CONSIST OF APPROVED
EXPANSION ANCHORS, PROVIDING MINIMUM CERTIFIED
PROOF LOAD = 4,080 LBS., & 3/4" Ø x 12" HOOKED BOLTS.

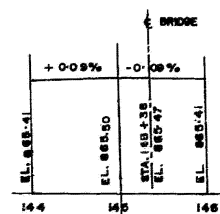


PLAN

WATERWAY INFORMATION

DRAINAGE AREA 14.0 SQ MI. LOW GRADE ELEV. 865.05 EXIST. AT STA. 148									
FLOOD	FRE YR.	Q	OPNG. S.F.	NAT	HEAD-FT	HEADWATER EL.	EXIST. PROP	EXIST. PROP	EXIST. PROP
DESIGN	50	1574.0	232	325.0	862.4	1.0	0.8	863.4	863.2
BASE	100	1805.0	232	325.0	862.5	2.0	1.0	864.5	863.5
OVERTOPPING									
MAX. CALE.	500								

PROPOSED PROFILE GRADE F&P ROUTE 557 (L.R.T. 72)



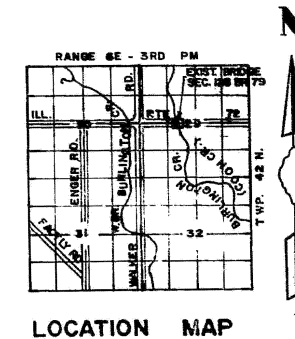
APPROVED
FOR STRUCTURAL ADEQUACY
DATE 10/1/2024
C. E. HANCOCK
REGISTERED PROFESSIONAL ENGINEER
NO. 045-0053

Mamun Shah



STATION 145+38
RE-BUILT 198 BY
STATE OF ILLINOIS
F&P 557 (L.R.T. 72)
SECT. 128-BR. (I) 79
LOADING HS 20
STR. NO. 045-0053

NAME PLATE
SEE STANDARD 2113



LOCATION MAP

SHAH ENGINEERING, INC.

CONSULTING ENGINEERS
55 WEST JACKSON BLVD. CHICAGO, ILL. 60604 (312) 344-2222

REVISIONS	
NAME	DATE

ILLINOIS DIVISION OF HIGHWAYS
GENERAL PLAN & ELEVATION
F&P ROUTE-557 (L.R.T. 72)
SECTION 128-BR. (I) 79
KANE COUNTY
STA. 145+38

SCALE: VERT. AS NOTED
HORIZ. 4" = 20' - 0"
DATE 4-20-81
DRAWN BY A.R.
CHECKED BY P.E.

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING STRUCTURAL PLANS (SN 045-0053)

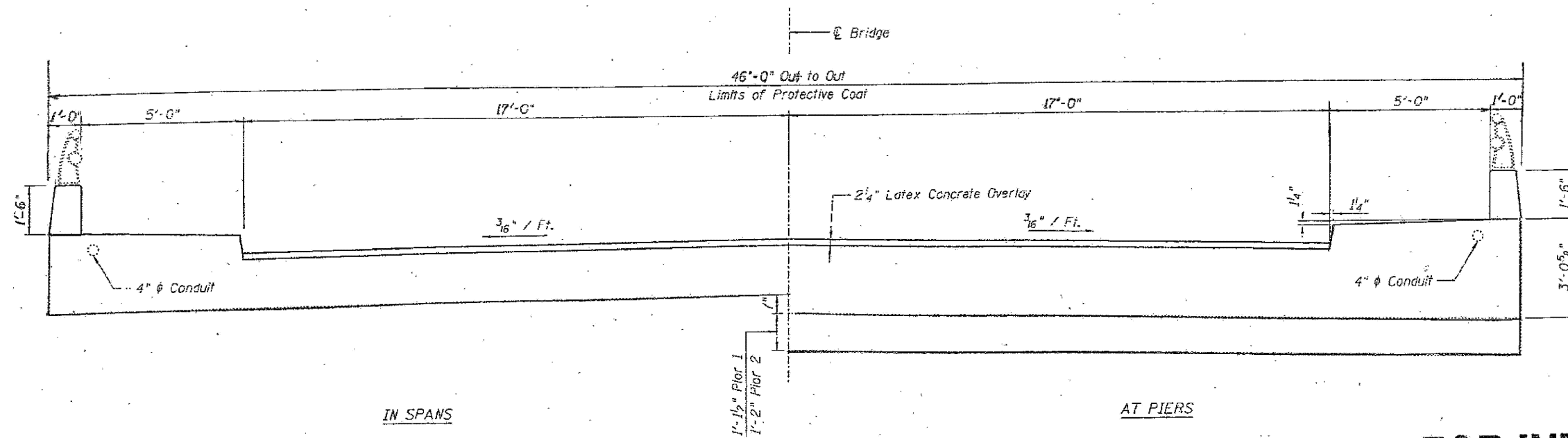
SCALE: SHEET OF 62 SHEETS STA. TO STA.

F&P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2024-1008-BDS	VARIOUS	80	39
CONTRACT NO. 62X45				
ILLINOIS FED. AID PROJECT				

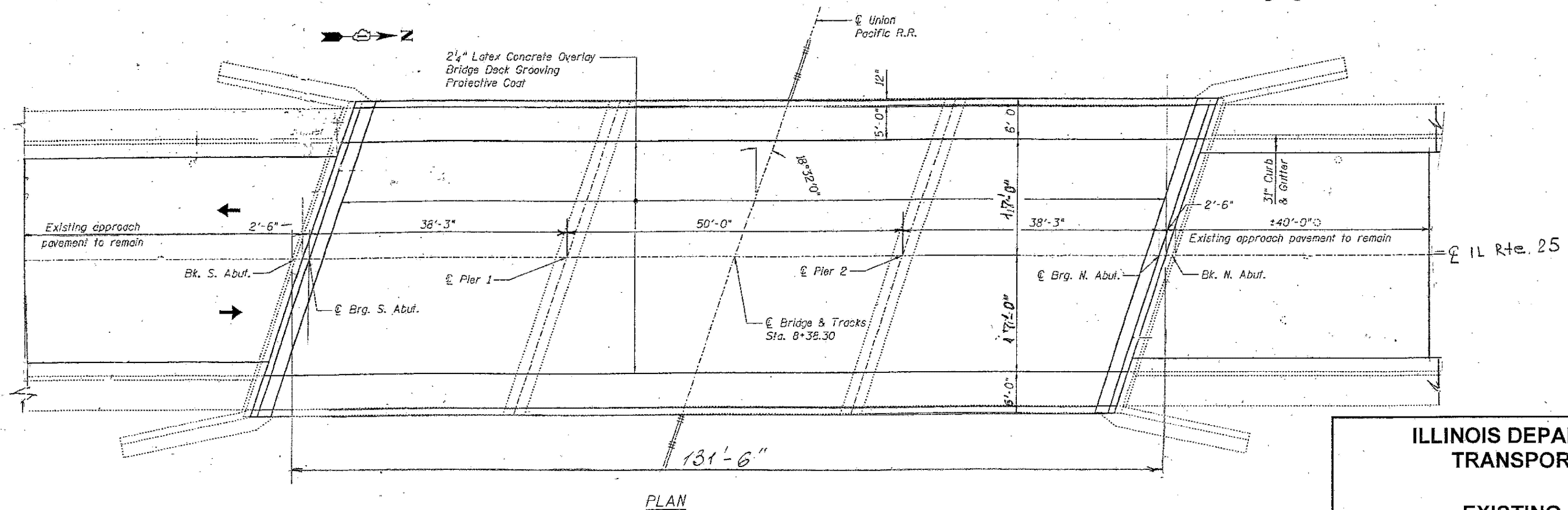


EXISTING PLANS
LOCATION 13 (SN 045-0055)

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2024-1008-BDS	VARIOUS	80	41
		CONTRACT NO. 62X45		
		ILLINOIS FED. AID PROJECT		



FOR INFORMATION ONLY



ILLINOIS DEPARTMENT OF
TRANSPORTATION

EXISTING PLANS
LOCATION 15 (SN 045-0061)

USER NAME = mohammad.hamwi	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 0.19869633 ' / in.	CHECKED -	REVISED -
PLOT DATE = 5/15/2025	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

EXISTING STRUCTURAL PLANS (SN 045-0061)

SCALE:	SHEET	OF 62 SHEETS	STA.	TO STA.
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F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2024-1008-BDS	VARIOUS	80	42
		CONTRACT NO. 62X45		
		ILLINOIS	FED. AID PROJECT	

Bench Mark: Cross cut on concrete surface of curb island at SW corner of intersection of US 20 and McLean Boulevard, located 4.9' W/SW of the traffic signal pole and 5.0' north of the south curb. Elevation = 829.90 (NAVD 88)

Existing Structures: S.N. 045-0002 (WB) and 045-0003 (EB) built in 1960 as FA Route 6 Section 8R-HB-2 at Sta. 98+40.4. Both structures were widened in 1987. S.N. 045-0003 will be widened further in prior contract for MOT purposes. Each structure consists of concrete deck on three-span continuous steel beams. The structures have overall lengths of 150'-1" and widths of 42'-11" (WB) and 55'-8" (EB). The spans are supported by concrete piers on spread footings and concrete stub abutments on piles.

Staging: Traffic to be maintained using staged construction.

Salvage: The two beam lines from the SN 045-0003 temporary widening, and the beam lines from the 1987 widening (one on SN 045-0002, one on SN 045-0003) shall be salvaged. The four stainless steel pins at the hinges of the 1987 widening beam lines shall also be salvaged.

DESIGN SPECIFICATIONS

AASHTO LRFD Bridge Design Specifications, 5th Edition (2010)

SEISMIC DATA

Seismic Performance Zone (SPZ) = 1
Design Spectral Acceleration at 1.0 sec (Sd1) = 0.084
Design Spectral Acceleration at 0.2 sec (Sds) = 0.144
Soil Site Class = D

LOADING HL-93

Allow 50 psf for future wearing surface

DESIGN STRESSES

FIELD UNITS

f'c = 3.5 ksi
fy = 60 ksi (Reinforcement)
fy = 50 ksi (Structural Steel)
AASHTO M270 Grade 50

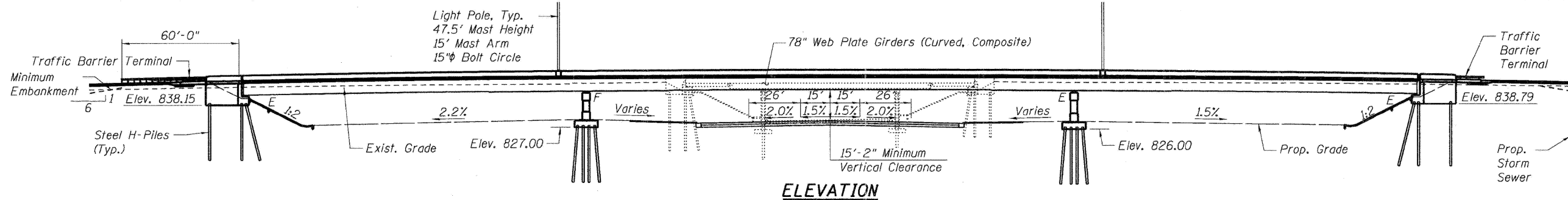
CURVE DATA

US 20

$\Delta = 20^{\circ}04'26''$ (LT)
D = 00'53'20"
T = 1,141.01'
L = 2,258.64'
E = 100.20'
R = 6,446.67'
S.E. = 2.6%
P.C. = Sta. 94+16.23
P.T. = Sta. 116+74.87
P.I. = Sta. 105+57.25

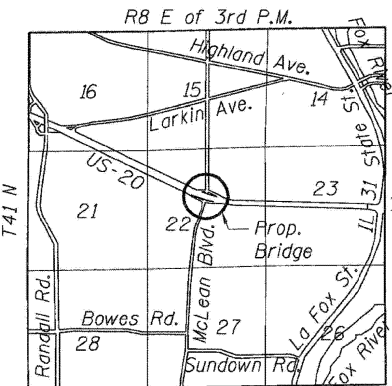
McLean Boulevard

$\Delta = 16^{\circ}16'29''$ (LT)
D = 01'54'35"
T = 428.96'
L = 852.15'
E = 30.51'
R = 3,000.00'
S.E. = n/a
P.C. = Sta. 68+34.21
P.T. = Sta. 76+86.36
P.I. = Sta. 72+63.17

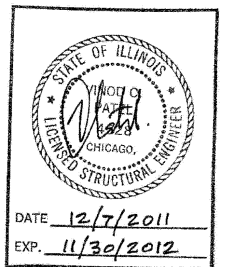
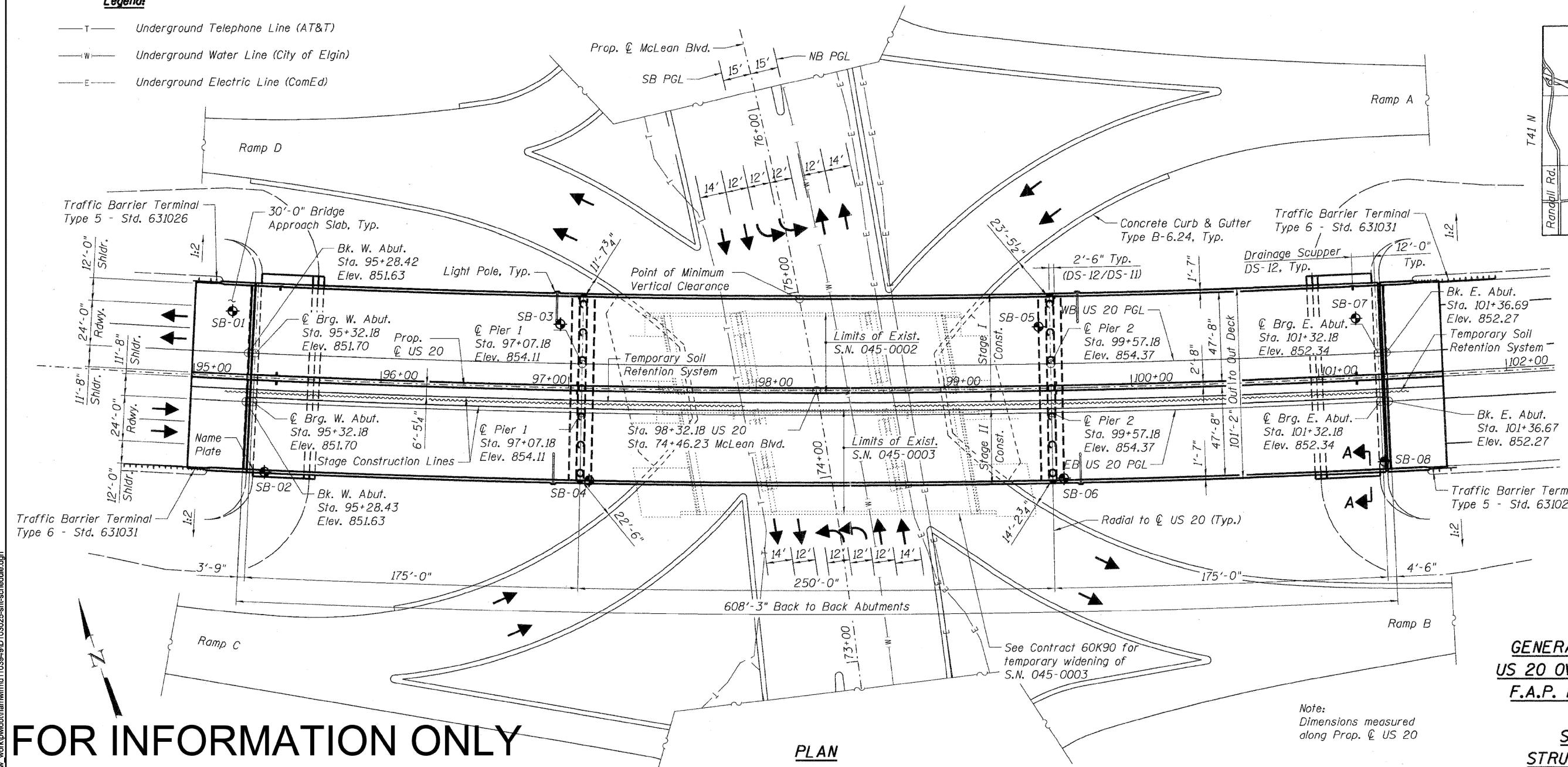


Legend:

- T— Underground Telephone Line (AT&T)
- W— Underground Water Line (City of Elgin)
- E— Underground Electric Line (ComEd)



LOCATION SKETCH



APPROVED
FOR STRUCTURAL ADEQUACY ONLY

ENGINEER OF BRIDGES AND STRUCTURES

GENERAL PLAN & ELEVATION
US 20 OVER MCLEAN BOULEVARD
F.A.P. RTE. 345 - SEC. 8R-R
KANE COUNTY
STATION 98+32.18
STRUCTURE NO. 045-0077

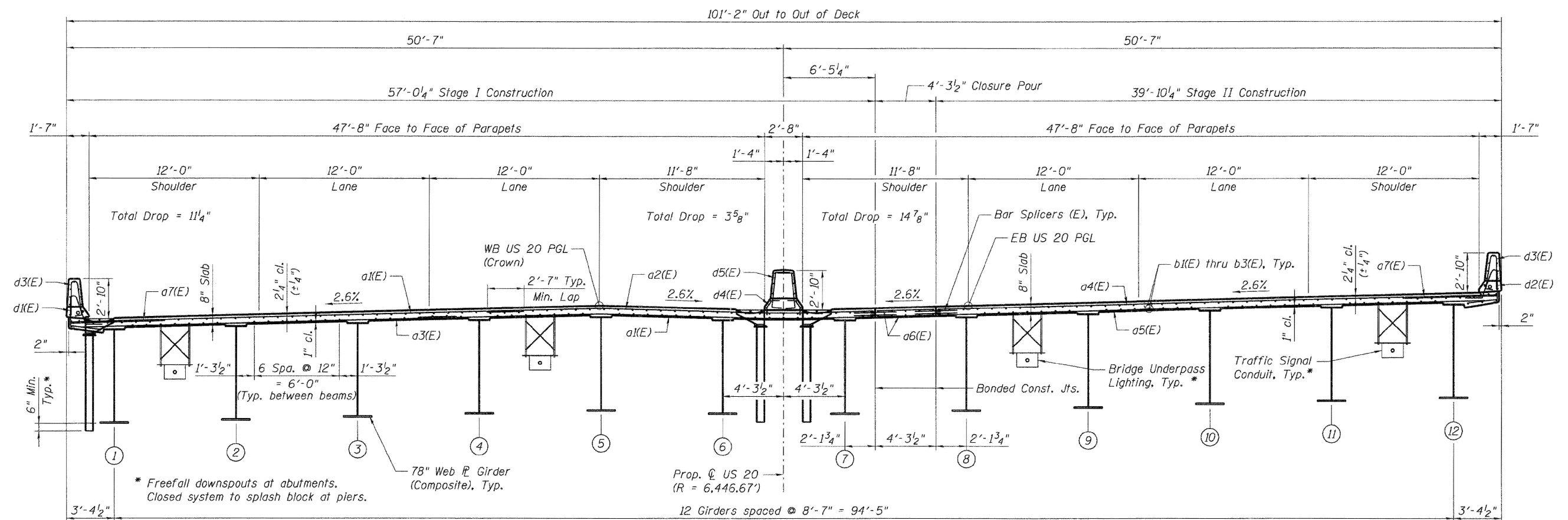
FOR INFORMATION ONLY

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING STRUCTURAL PLANS (SN 045-0077)

SCALE: SHEET OF 62 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2024-1008-BDS	VARIOUS	80	43
CONTRACT NO. 62X45				
ILLINOIS FED. AID PROJECT				



BENCHMARK: BM#2 Top of R.R. Spike set in top concrete wingwall STA. 1462+76, 22' LT. ELEV. = 915.67

EXISTING STRUCTURE: SN 045-0023 was constructed in 1934 as a single span reinforced concrete slab superstructure on closed abutments support on concrete piles. In 1978 the superstructure was removed and replaced with a single span precast, 11" x 52" prestressed concrete (PPC) deck beam superstructure with a bituminous overlay. The substructure was modified and widened. The widened abutment and new wingwalls are also supported on concrete piles. In 2005, six of the 10 PPC deck beams were removed and replaced in kind. The bituminous overlay was replaced with a 5" reinforced concrete overlay. The out-to-out width of the structure is 43'-2" with a 40'-0" clear roadway width over the bridge.

TRAFFIC CONTROL METHOD: Staged Construction

SALVAGE: None

FOR INFORMATION ONLY

DESIGN SPECIFICATIONS
AASHTO LRFD Bridge Design Specifications
5th Edition with 2010 Interim Revisions

DESIGN STRESSES

FIELD UNITS

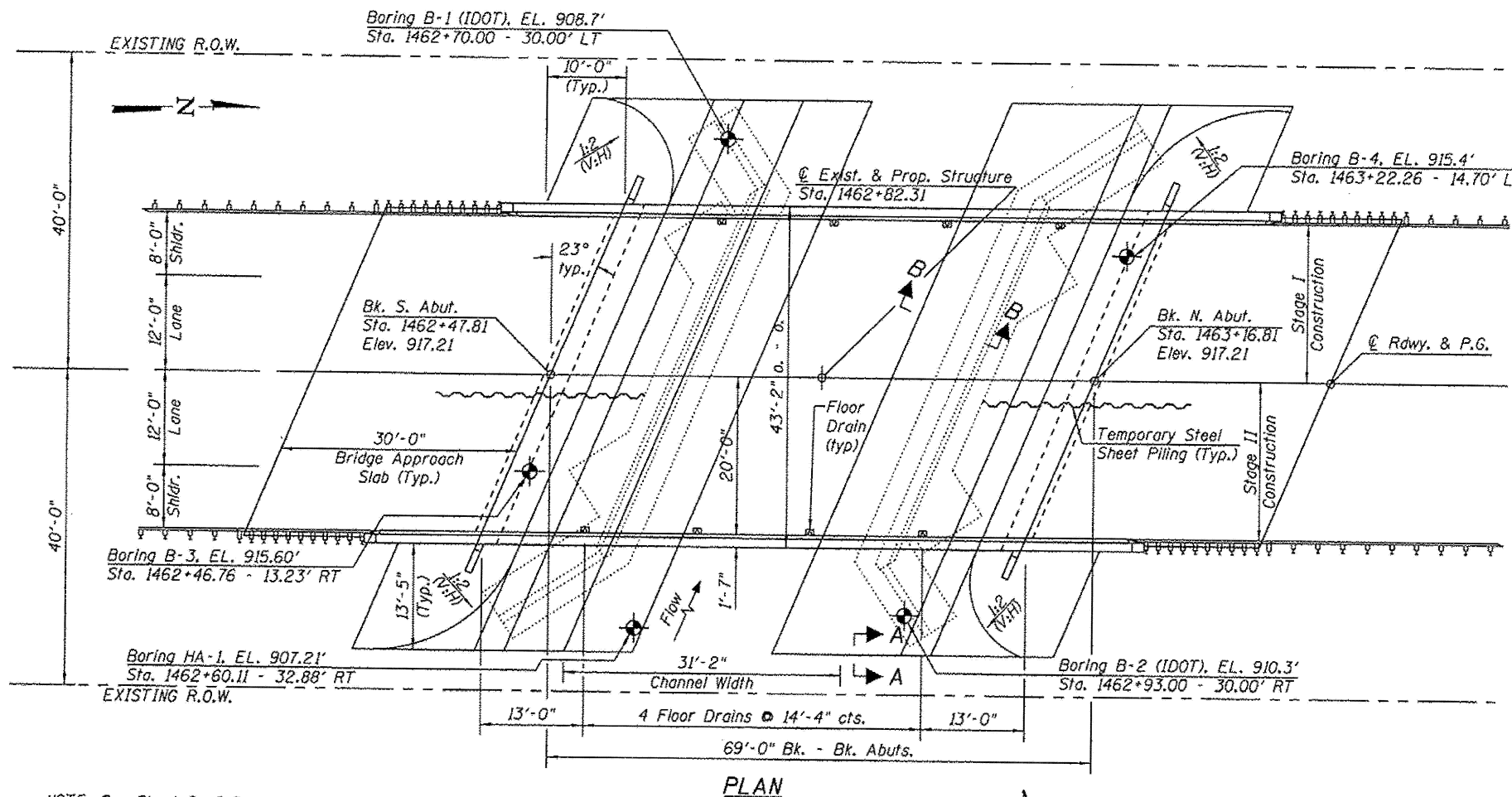
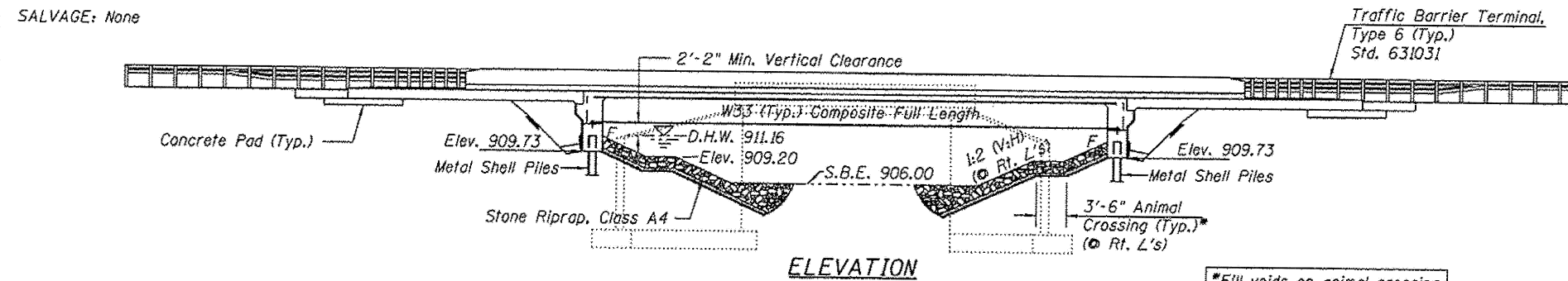
f'_c = 3,500 psi
 f_y = 60,000 psi (Reinforcement)
 f_y = 50,000 psi (M270 Grade 50)

LOADING HL-93

Allow 50#/sq. ft. for future wearing surface.

SEISMIC DATA

Seismic Performance Zone (SPZ) = 1
Design Spectral Acceleration at 1.0 sec. (S_{D1}) = .086g
Design Spectral Acceleration at 0.2 sec. (S_{D5}) = .155g
Soil Site Class = D



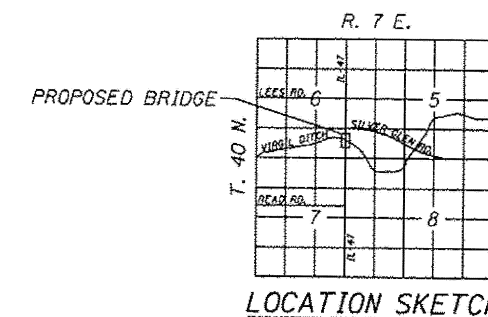
NOTE: See Sheet 2 of 22 for Section A-A & B-B

APPROVED
For Structural Adequacy Only
Michael J. Treloar
Engineer of Bridges & Structures

Expires: 11/30/12

STATION 1462+82.31
BUILT 20 BY
STATE OF ILLINOIS
F.A.P. RT 326 SEC. 106X-B
LOADING HL-93
STRUCTURE NO. 045-0078

NAME PLATE
See Std. 515001



GENERAL PLAN
IL ROUTE 47
OVER VIRGIL DITCH #2
FAP ROUTE 326
SECTION 106X-B
KANE COUNTY
STATION 1462+82.31
STRUCTURE NO. 045-0078

DESIGN SCOUR ELEVATION TABLE

Design Scour Elevation (ft.)	N. Abut.	S. Abut.
	909.7	909.7

WATERWAY INFORMATION

Drainage Area = 4.22 Sq. MI Low Grade Elev. 917.21 ft @ Sta. 1463+70									
Flood	Freq. Yr.	Q C.F.S.	Opening Sq. Ft.	Nat. H.W.E.	Head - Ft.	Headwater El.	Exist.	Prop.	Exist.
Design	10	629	119.8	212.2	1.07	.46	911.76	911.15	911.15
Base	50	873	132.0	239.8	1.59	.62	912.75	911.78	911.78
Overlapping	100	959	135.7	248.0	1.76	.67	913.06	911.97	911.97
Max. Calc.	>500	1226	145.5	270.3	2.89	.84	914.57	912.52	912.52

USER NAME			DESIGNED			REVISED		
USER NAME = mohammad.hamwi			DESIGNED -			REVISED -		
			DRAWN -			REVISED -		
PLOT SCALE = 0.16666633 ' / in.			CHECKED -			REVISED -		
PLOT DATE = 5/15/2025			DATE -			REVISED -		

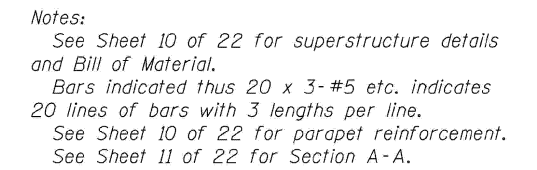
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING STRUCTURAL PLANS (SN 045-0078)

SCALE: SHEET OF 62 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2024-1008-BDS	VARIOUS	80	45
CONTRACT NO. 62X45				
ILLINOIS FED. AID PROJECT				

FOR INFORMATION ONLY



#5 bar = 2'-7"

PLAN



7-1-10

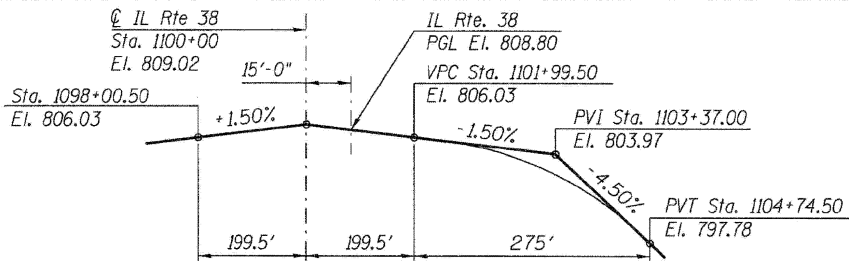
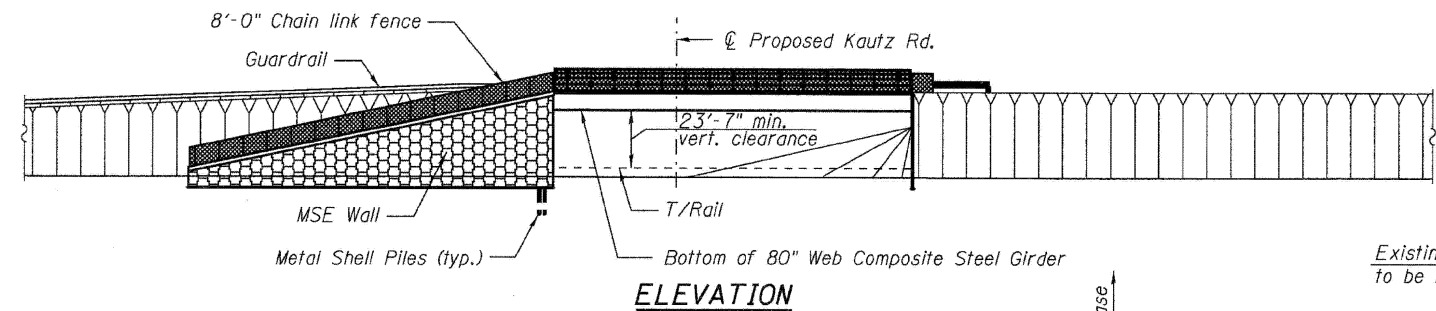
SCALE:	SHEET	OF 62 SHEETS	STA.	TO STA.
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ILLINOIS	FED. AID PROJECT
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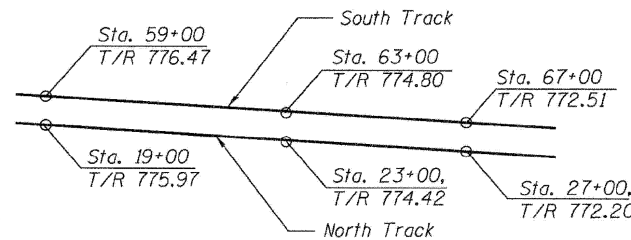
MODEL: 25B-LOCATION 25B (SN 045-0078)
FILE NAME: c:\pw work\pwwid\harmwim\d1103949\D103025-sht-schedule.dgn

Bench Mark: No. 204 cut "a" on B/C along westerly side of Kautz Rd. opposite 2nd L.P. = Elev. 767.58
Existing Structure: None

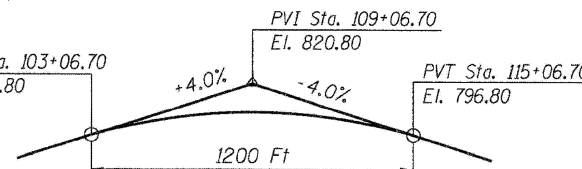
FOR INFORMATION ONLY



PROFILE GRADE-PROPOSED KAUTZ RD.



SURVEY TOP OF RAIL ELEVATIONS



PROFILE GRADE-PROPOSED RTE 38

BRIDGE DESIGN SPECIFICATIONS

AASHTO LRFD Bridge Design Specifications, 2007 (4th Edition) with 2008 and 2009 Interim.

MSE WALL

2002 AASHTO Standard Specifications for Highway Bridges

LOADING HL-93

Allow 50 lbs/sq. ft. for Future Wearing Surface

DESIGN STRESSES

Field Units
f'c = 3,500 psi
fy = 60,000 psi (reinforcement)
fy = 50,000 psi (M270 Grade 50W Structural Steel)
f'c = 4,500 psi (Precast Units)
Allowable Soil Pressure = 5.7 ksf (MSE Walls and Geotextile Walls)

SEISMIC DATA

Seismic Performance Zone (SPZ) = 1
Design Spectral Acceleration at 1.0 sec. (SD1)=0.159g
Design Spectral Acceleration at 0.2 sec. (SDS)=0.088g
Soil Site class = D

APPROVED FOR STRUCTURAL ADEQUACY ONLY

ENGINEER OF BRIDGES AND STRUCTURES

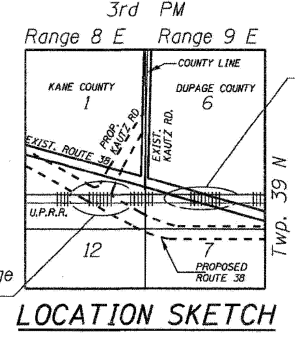


GENERAL PLAN & ELEVATION
ILLINOIS ROUTE 38 OVER U.P.R.R.
F.A.P. RTE. 347 - SECTION LY (HB & VB)
KANE/DUPAGE COUNTY
STATION 109+06.70
STRUCTURE NO. 045-0079

LEGEND:
Soil Boring

MODEL: 26A-LOCATION 26A (SN 045-0079)
FILE NAME: c:\p\work\kautz\hamw\1103949D\103026-shr-schedule.dgn

- Notes:
1. For Section B-B see Sheet 2.
2. For Section A-A see Sheet 4.
3. Railroad Milepost 33.21 equals NB Track Sta. 22+4.52 at the intersection of Rte. 38 and the U.P.R.R.



LOCATION SKETCH

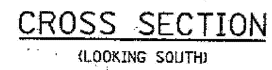
USER NAME = mohammad.hamwi	DESIGNED -	REVISED -
DRAWN -	REVISED -	
PLOT SCALE = 0.16666633' / in.	CHECKED -	REVISED -
PLOT DATE = 5/15/2025	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING STRUCTURAL PLANS (SN 045-0079)

SCALE: SHEET OF 62 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2024-1008-BDS	VARIOUS	80	47
CONTRACT NO. 62X45				
ILLINOIS FED. AID PROJECT				



EXISTING PLANS
LOCATION 14 (SN 045-0329)

[illegible]

MODEL: 27-LOCATION 27 (SN 045-0329)
FILE NAME: c:\pw work\pwidot\harm\im\d1103949\D103025-sht-schedule.dgn

Bench Mark: Railroad spike in private property on east side of IL 31 north of Ferson Creek Park entrance. Elev. 701.13

Existing Structure: S.N. 045-0019 was originally constructed in 1916 under State Aid Plan Number 45-12&1-H as a single span reinforced concrete deck girder superstructure on reinforced concrete closed abutments. The original structure was 53'-0" back-to-back abutments and 27'-0" out-to-out of deck. In 1971, the superstructure was replaced with PPC deck beams and a bituminous wearing surface, and the structure was widened to 33'-0" out-to-out of deck. The existing structure is to be removed and replaced with a single span steel plate girder superstructure on integral abutments.

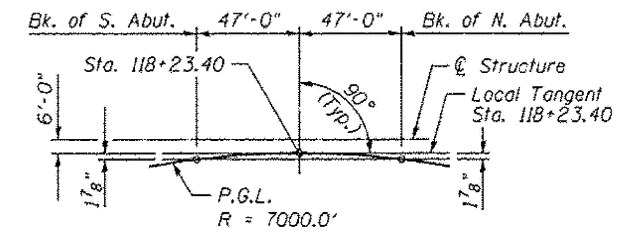
Traffic to be maintained utilizing staged construction.

No Salvage.

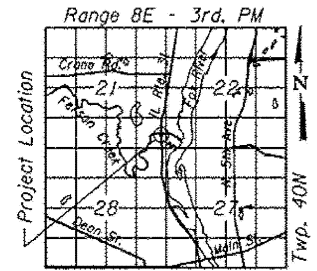
Traffic Barrier
Terminal Type 6, typ.
(See Std. 631031)

CURVE DATA

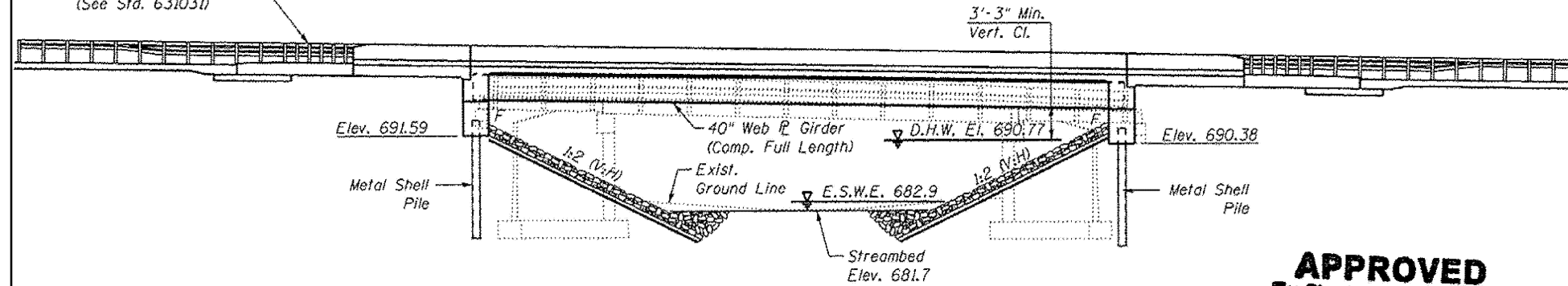
P.I. Sta. = 117+87.48
 $\Delta = 4^\circ 30' 07''$ (RT)
 $D = 0^\circ 49' 07''$
 $R = 7,000.00'$
 $L = 550.03'$
 $T = 275.16'$
 $E = 5.41'$
 $S.E. = 0.0151'$
P.C. Sta. = 115+12.33
P.T. Sta. = 120+62.36



OFFSET SKETCH

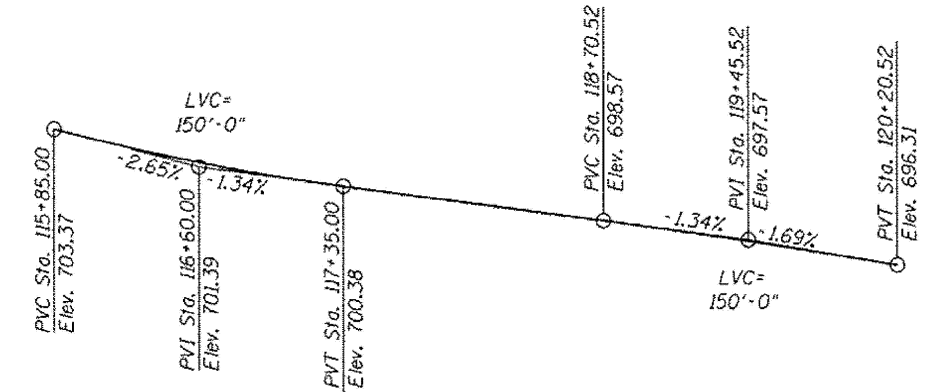


LOCATION SKETCH



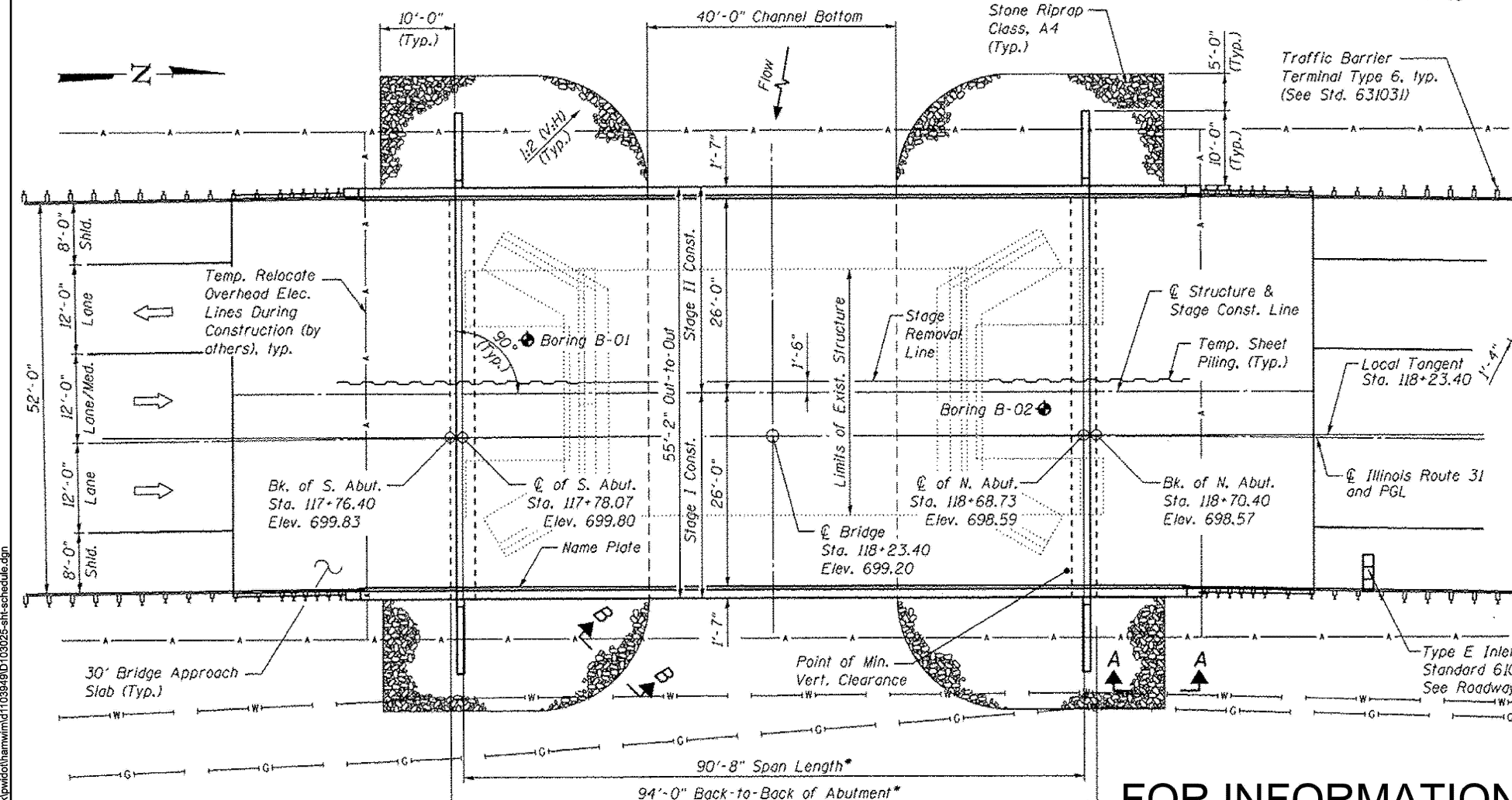
ELEVATION

APPROVED
For Structural Adequacy Only
Dr. Carl Krueger
Engineer of Bridges & Structures



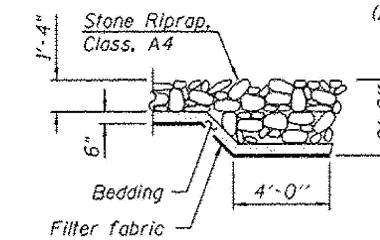
PROFILE GRADE

(Along P.G.L. IL Rte./ 31)



PLAN

*Measured Along Local Tangent



SECTION B-B

DESIGN SPECIFICATIONS
2012 AASHTO LRFD Bridge Design Specifications,
6th Edition, with 2013 Interims

LOADING HL-93

Allow 50#/sq. ft. for future wearing surface.

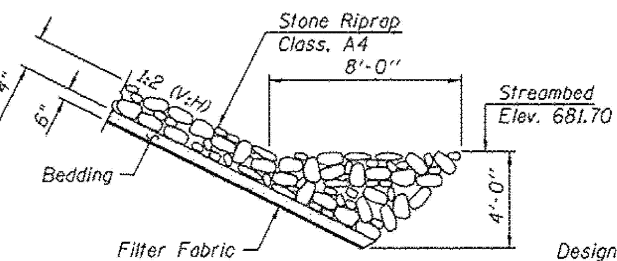
DESIGN STRESSES

FIELD UNITS

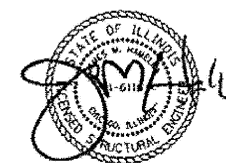
$f'_c = 3,500$ psi
 $f_y = 60,000$ psi (Reinforcement)
 $f_y = 50,000$ psi (M270 Grade 50)

SEISMIC DATA

Seismic Performance Zone (SPZ) = 1
Design Spectral Acceleration at 1.0 sec. (S_{d1}) = 0.087g
Design Spectral Acceleration at 0.2 sec. (S_{d5}) = 0.157g
Soil Site Class = D



SECTION B-B



COLLINS ENGINEERS, INC.
JAMES M. HAMELKA
NO. 81-6116
EXPIRES 11-30-2016

FOR INFORMATION ONLY

GENERAL PLAN & ELEVATION
IL RTE. 31 OVER Ferson Creek
F.A.U. RT. 3887 - SEC. 1-B-1
KANE COUNTY
STATION 118+23.40
STRUCTURE NO. 045-0333

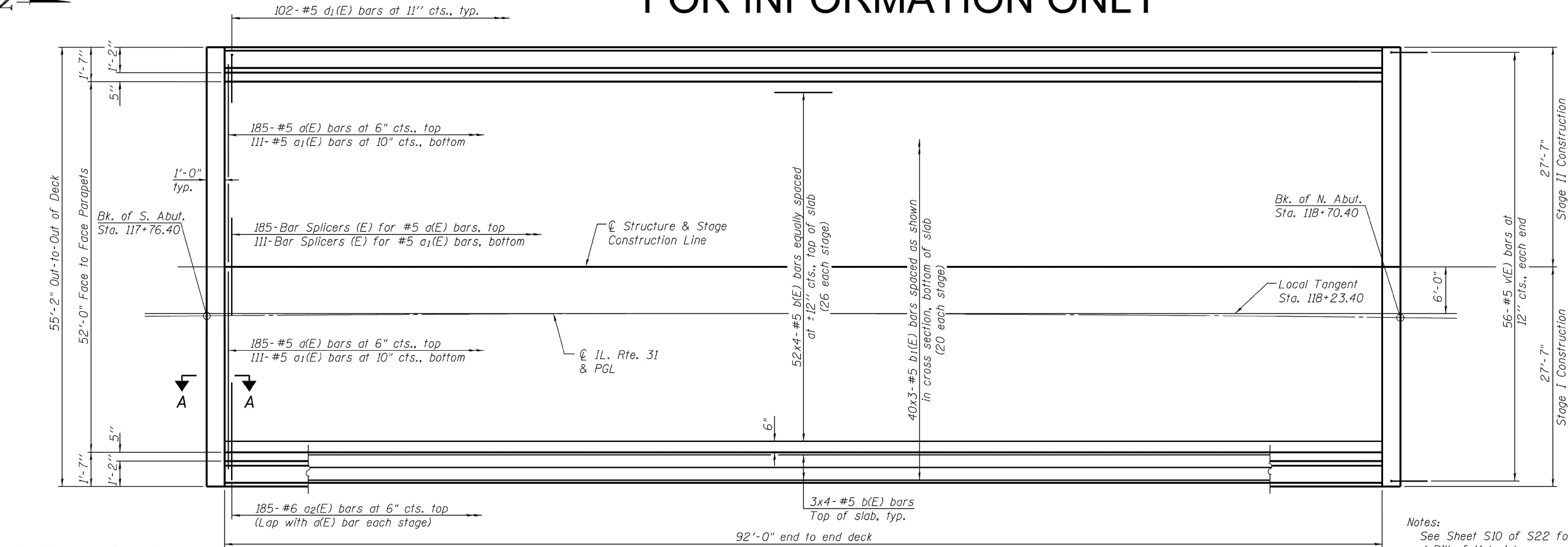
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING STRUCTURAL PLANS (SN 045-0333)

SCALE: SHEET OF 62 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2024-1008-BDS	VARIOUS	80	50
CONTRACT NO. 62X45				
ILLINOIS FED. AID PROJECT				

FOR INFORMATION ONLY

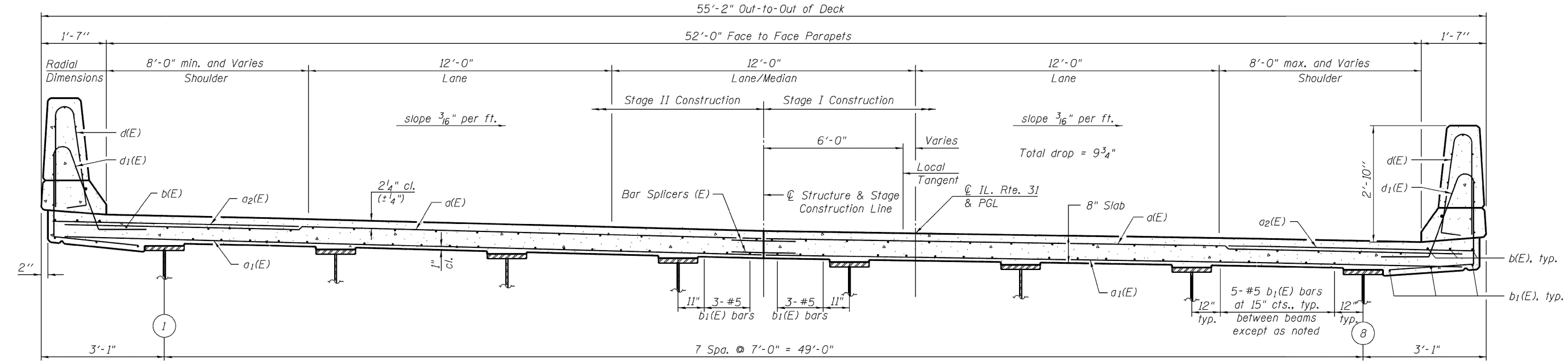


MINIMUM BAR LAP

#5 bar = 2'-7"

PLAN

Notes:
See Sheet S10 of S22 for superstructure details and Bill of Material.
Bars indicated thus 20x3-#5 etc. indicates 20 lines of bars with 3 lengths per line.
See Sheet S10 of S22 for parapet reinforcement.
See Sheet S20 of S22 for bar splicer details.



CROSS SECTION
(Looking North)

MODEL: 28B LOCATION 28B (SN 045-0333)
FILE NAME: c:\p\work\28b\28b.dgn

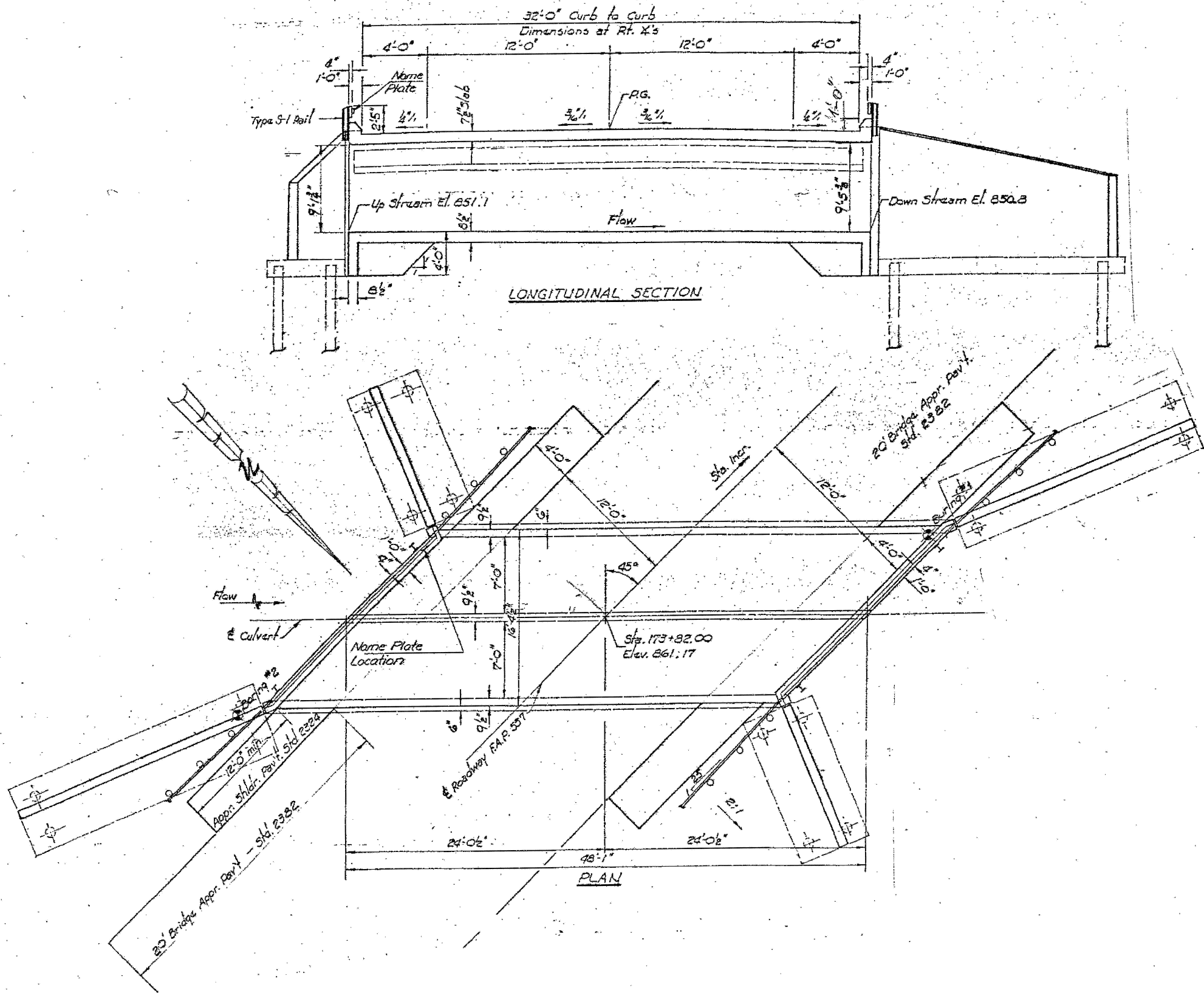
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PLOT SCALE = 0.16666633' / in.	DRAWN -	REVISED -
PLOT DATE = 5/15/2025	CHECKED -	REVISED -
	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING STRUCTURAL PLANS (SN 045-0333)

SCALE: SHEET OF 62 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2024-1008-BDS	VARIOUS	80	51
CONTRACT NO. 62X45				
ILLINOIS FED. AID PROJECT				



FOR INFORMATION ONLY

ILLINOIS DEPARTMENT OF
TRANSPORTATION

EXISTING PLANS
LOCATION 18 (SN 045-2004)

MODEL: 28-LOCATION 29 (SN 045-2004)
FILE NAME: c:\p\work\delham\ind1103949D\03025-shr-schedule.dgn

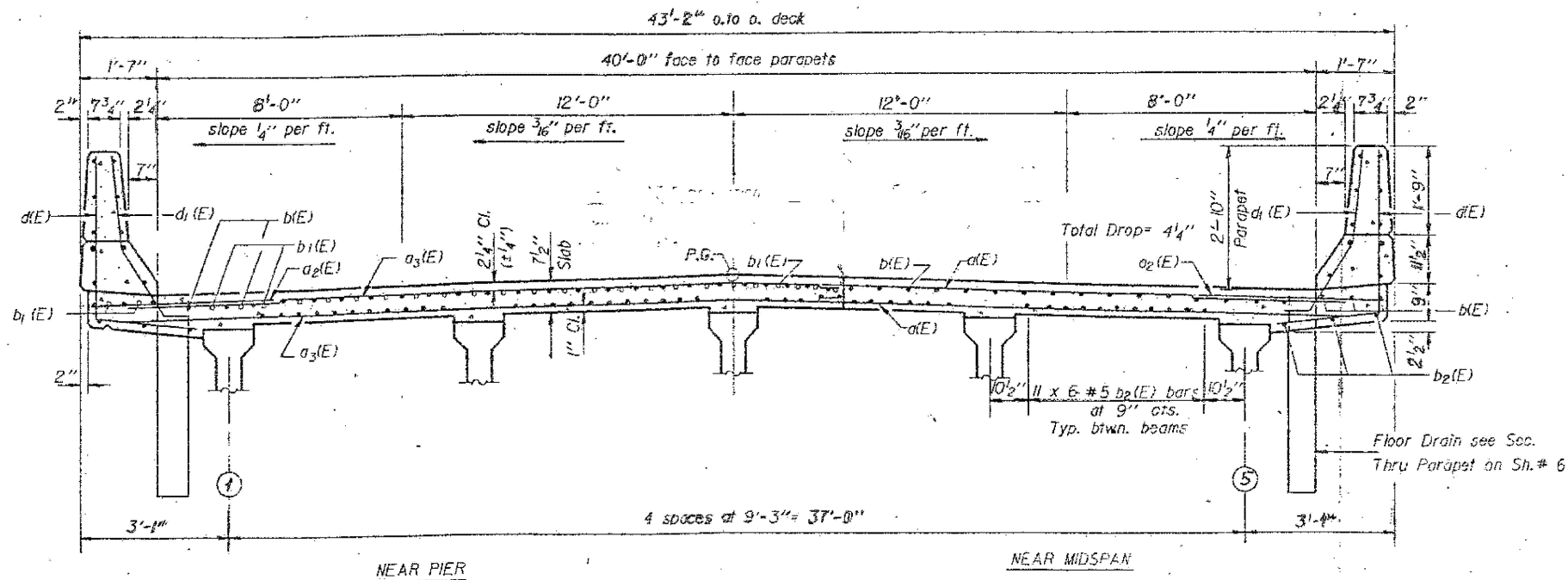
USER NAME = mohammad.hamwi	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 0.16666633' / in.	CHECKED -	REVISED -
PLOT DATE = 5/15/2025	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

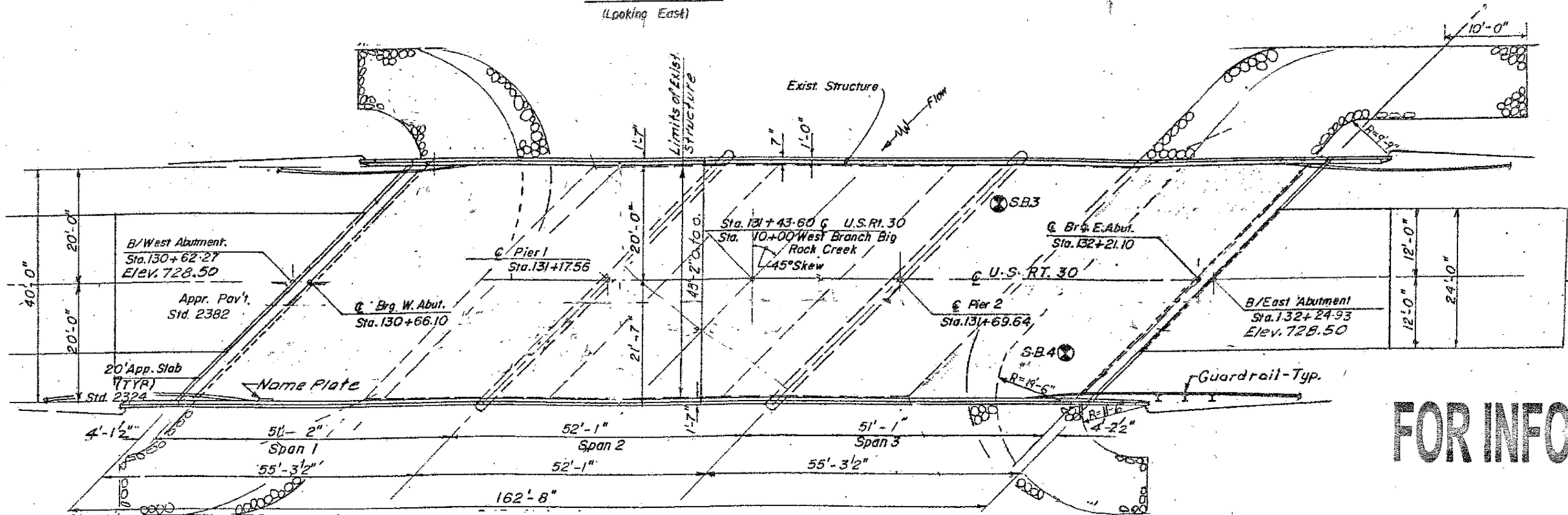
EXISTING STRUCTURAL PLANS (SN 045-2004)

SCALE: SHEET OF 62 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2024-1008-BDS	VARIOUS	80	52
CONTRACT NO. 62X45				
ILLINOIS FED. AID PROJECT				



CROSS SECTION
(Looking East)



PLAN

FOR INFORMATION ONLY

ILLINOIS DEPARTMENT OF
TRANSPORTATION

EXISTING PLANS
LOCATION 19 (SN 045-2005)

MODEL: 30-LOCATION 30 (SN 045-2005)
FILE NAME: c:\p\work\delham\ind1103949\03025-shr-schedule.dgn

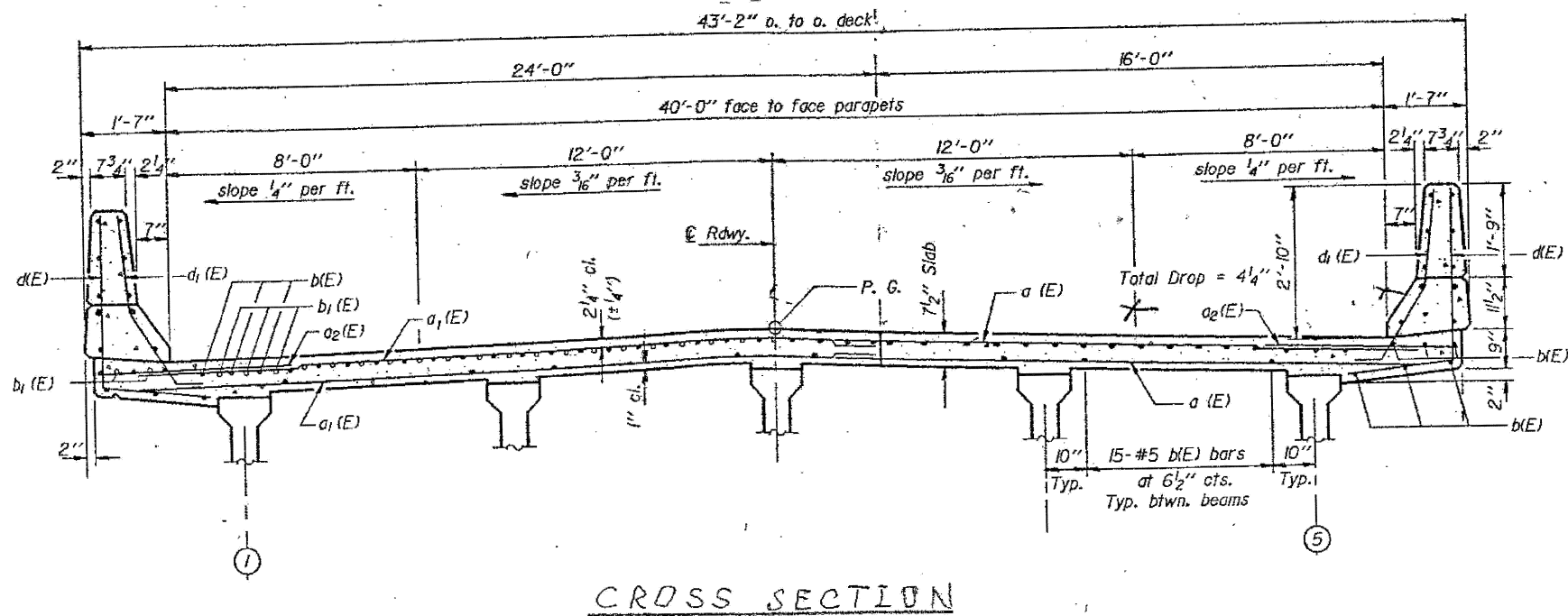
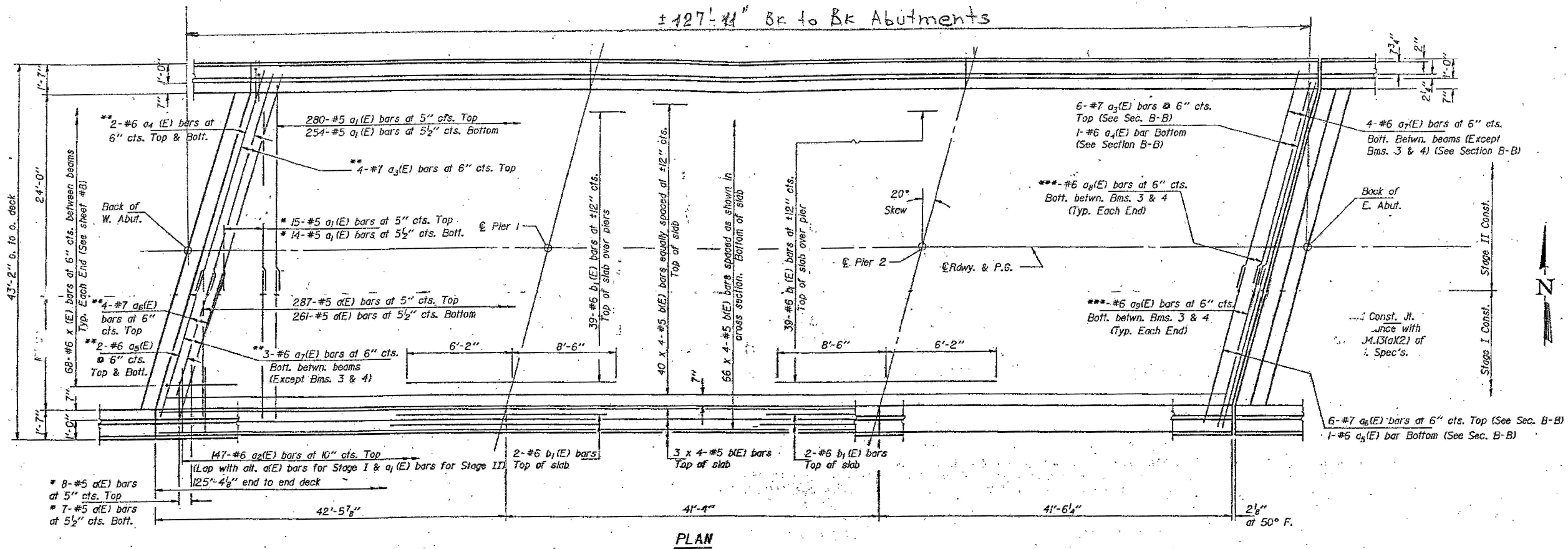
USER NAME = mohammad.hamwi	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 0.16666633' / in.	CHECKED -	REVISED -
PLOT DATE = 5/15/2025	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING STRUCTURAL PLANS (SN 045-2005)

SCALE: SHEET OF 62 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2024-1008-BDS	VARIOUS	80	53
CONTRACT NO. 62X45				
ILLINOIS FED. AID PROJECT				



FOR INFORMATION ONLY

ILLINOIS DEPARTMENT OF
TRANSPORTATION

EXISTING PLANS
LOCATION 20 (SN 045-2006)

MODEL: 31-LOCATION 31 (SN 045-2006)
FILE NAME: c:\p\work\delham\del103949D\03025-shr-schedule.dgn

USER NAME = mohammad.hamwi	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 0.16666633' / in.	CHECKED -	REVISED -
PLOT DATE = 5/15/2025	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING STRUCTURAL PLANS (SN 045-2006)

SCALE: SHEET OF 62 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2024-1008-BDS	VARIOUS	80	54
CONTRACT NO. 62X45				
ILLINOIS FED. AID PROJECT				

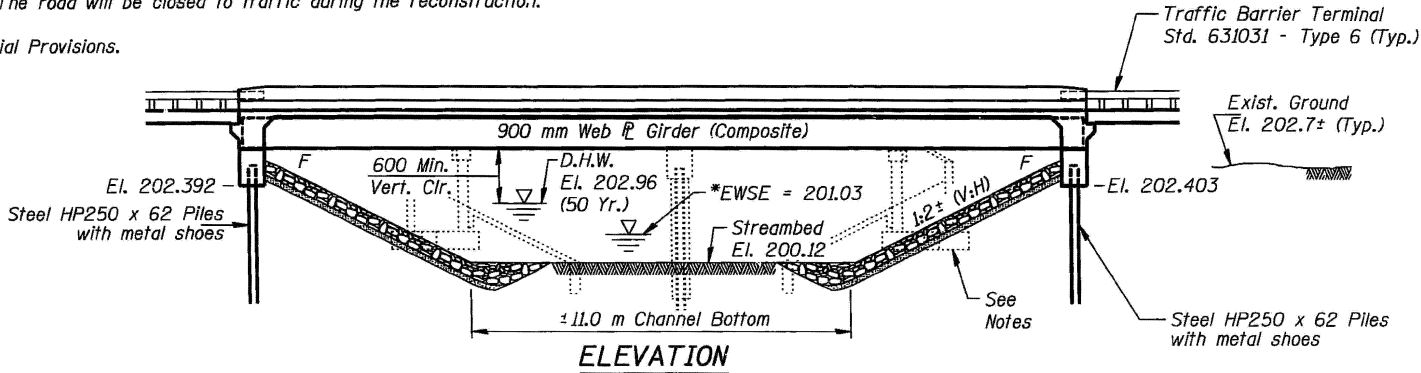
Benchmark: RM 42. Chiseled "□" in southeast wingwall of structure 045-0021. Elev. 203.582.

Existing structure: S.N. 045-0021 was built in 1923 as S.B.I. Route 22, Section 16. The structure was rehabilitated in 1971. The rehabilitation consisted of removal and replacement of the superstructure and the pier, along with abutment modifications. The current structure has two spans, each with simply-supported 279 mm precast, prestressed concrete deck beams and a 76 mm bituminous overlay. The span lengths are each 6.312 m and the total length back to back of abutments is 13.411 m. The deck is 10.566 m out to out and carries one traffic lane in each direction. The bridge is supported by closed abutments founded on piles and an encased pile bent pier located in the center of Waubensee Creek. The road will be closed to traffic during the reconstruction.

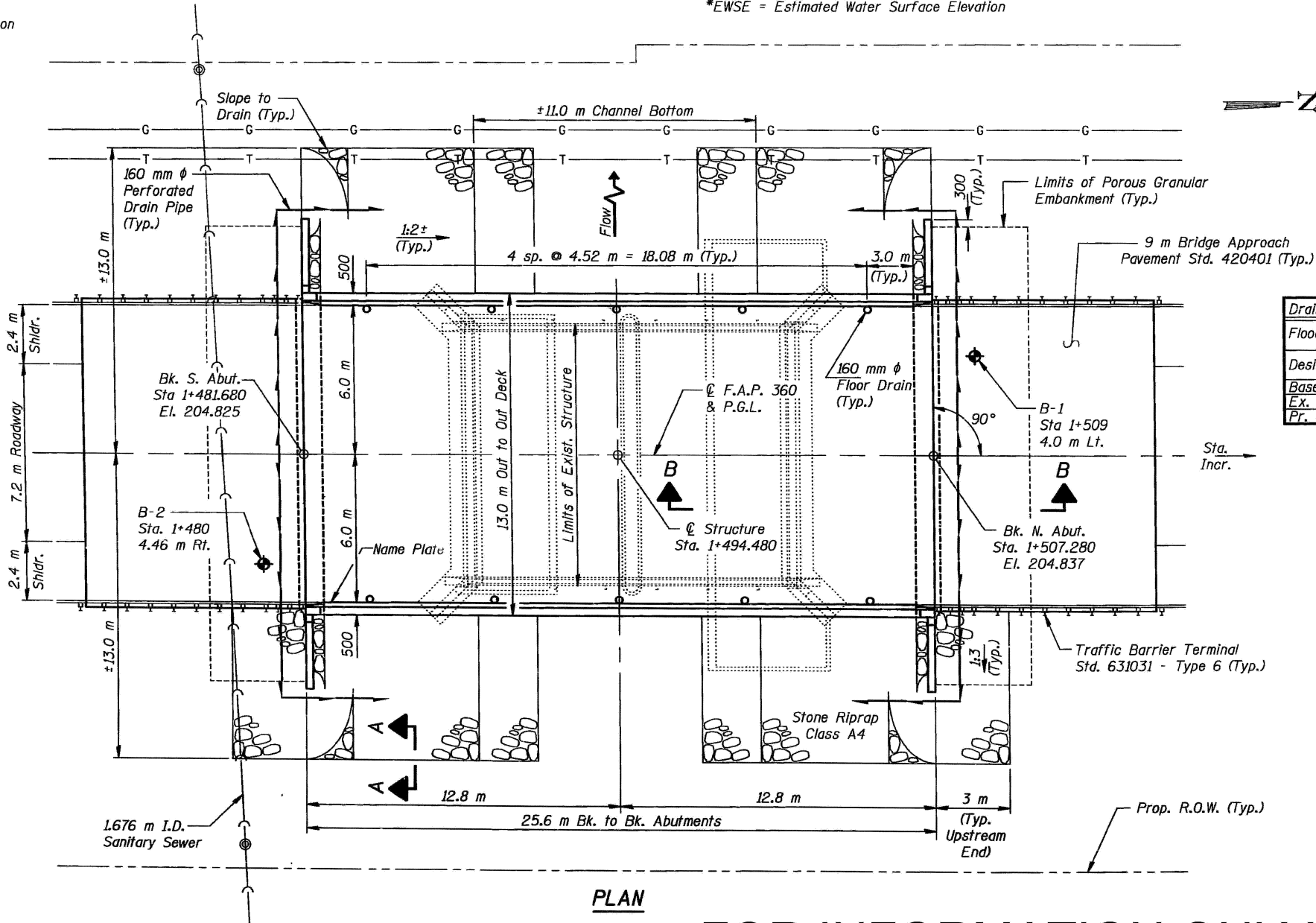
The existing Type N steel rail shall be salvaged. See Special Provisions.

Notes:
See Sheet S2 for Section A-A, Section B-B and Existing Cross Section.
Floor drains shall be located clear of all diaphragms.
See Roadway Plans for utility and R.O.W. information.
Portions of existing structure removed below proposed channel excavation limits shall be backfilled in accordance with Article 502.10 of the Std. Specs. Cost included with Removal of Existing Structures. See Roadway Plans for limits of Channel Excavation.
See erosion control plan for provisions on in-stream work.

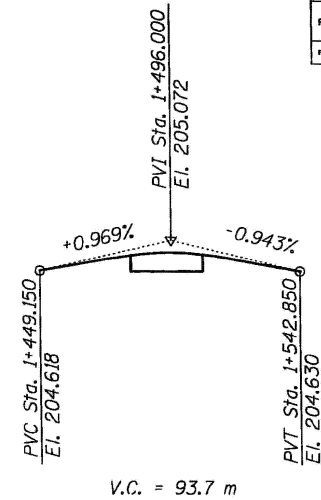
◆ = Soil Boring Location



*EWSE = Estimated Water Surface Elevation



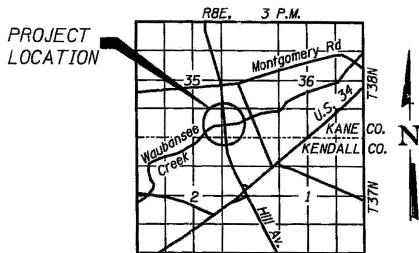
PLAN



PROFILE GRADE
(along roadway)

LOADING MS18
Allow 2.4 kN/m² for future wearing surface.
DESIGN SPECIFICATIONS
1996 AASHTO with 1997 through 2000 Interims
DESIGN STRESSES
 $f'_c = 24$ MPa
 $f_y = 400$ MPa (Reinf.)
 $f_y = 345$ MPa (AASHTO M 270M Gr. 345)
 $f_y = 250$ MPa (AASHTO M 270M Gr. 250)

SEISMIC DATA
Seismic Performance Category (SPC) = A
Bedrock Acceleration Coefficient (A) = 0.04 g
Site Coefficient (S) = 1.0



LOCATION SKETCH

WATERWAY INFORMATION

Drainage Area = 45.07 km ²		* Prop. Low Grade Elev. = 203.88 @ Sta. 1+346.660					
Flood	Freq. Yr.	Q m ³ /s	Opening m ²		Nat. HWE	Head (m)	
			Exist.	Prop.		Exist.	Prop.
Design	10	20.78	26.27	46.37	202.82	0.07	0.07
	50	31.38	27.90	49.52	202.96	0.16	0.16
Base	100	38.88	30.70	55.08	203.20	0.17	0.16
Ex. Overtopping	190	45.87	32.80	-	203.49	0.23	-
Pr. Overtopping	270	52.38	-	64.57	203.75	0.12	-

* Exist. Low Grade Elev. = 203.71 @ Sta. 1+251.810

STATION 1+494.480
BUILT 200 BY
STATE OF ILLINOIS
F.A.P. RT. 360 SEC. 16-B-R1
F.A. PROJ.
LOADING MS18
S.N. 045-2023

NAME PLATE
See Std. 515001

DESIGNED	BAK
CHECKED	BLU
DRAWN	BDC
CHECKED	BAK

DATE: 07-01-02



APPROVED
FOR STRUCTURAL ADEQUACY ONLY

Ralph E. Anderson
ENGINEER OF BRIDGES AND STRUCTURES

Brian Umbright
Current Date: 07-01-02
License Expires: 11-02-02

GENERAL PLAN AND ELEVATION
F.A.P. 360 (HILL AVENUE)
OVER WAUBANSEE CREEK
SECTION 16-B-R1
KANE COUNTY
STATION 1+494.48
S.N. 045-2023

BOWMAN, BARRETT
& ASSOCIATES INC.
CONSULTING ENGINEERS
130 E. RANDOLPH STREET
CHICAGO, ILLINOIS 60601
JOB NO. 623



STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING STRUCTURAL PLANS (SN 045-2023)

SCALE: SHEET OF 62 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2024-1008-BDS	VARIOUS	80	55
CONTRACT NO. 62X45				
ILLINOIS FED. AID PROJECT				



Notes: See Sheet S6 for superstructure details, Section A-A and Bill of Material.

Bars indicated thus 41 x 3-#15 etc. indicates 41 lines of bars with 3 lengths per line.



FOR INFORMATION ONLY



SUPERSTRUCTURE PLAN
F.A.P. 360 (HILL AVENUE)
OVER WAUBANSEE CREEK
SECTION 16-B-R1
KANE COUNTY
STATION 1+494.48
S.N. 045-2023

DATE: 07-01-02

USER NAME = mohammad.hamwi	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 0,16666633 ' / in.	CHECKED -	REVISED -
PLOT DATE = 5/15/2025	DATE -	REVISED -

EXISTING STRUCTURAL PLANS (SN 045-2023)

SCALE:	SHEET	OF 62 SHEETS	STA.	TO STA.
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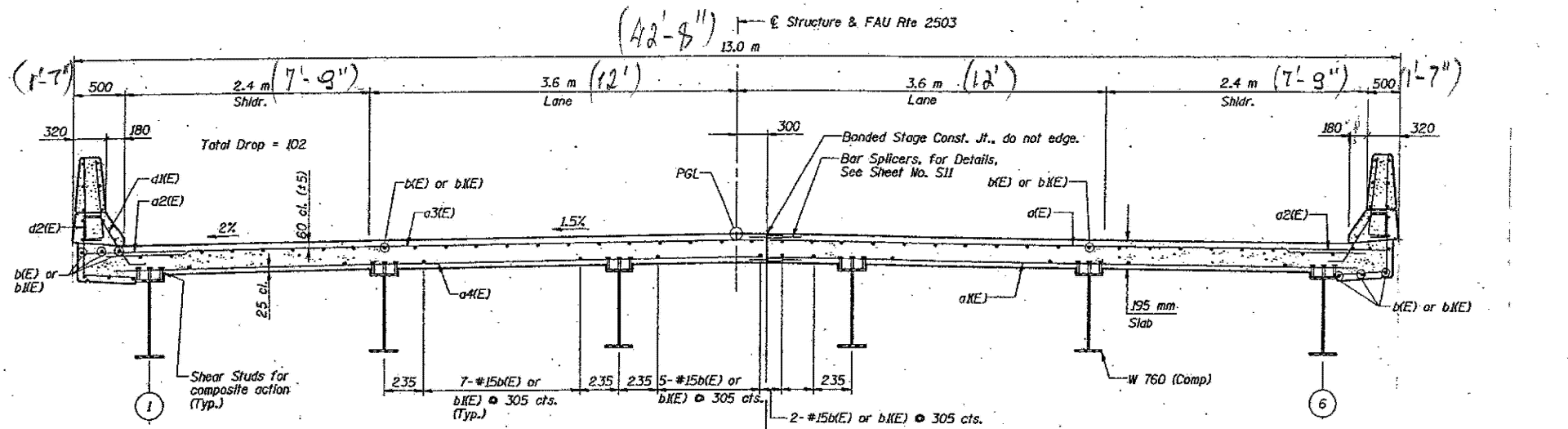
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2024-1008-BDS	VARIOUS	80	56
		CONTRACT NO. 62X45		
		ILLINOIS FED. AID PROJECT		



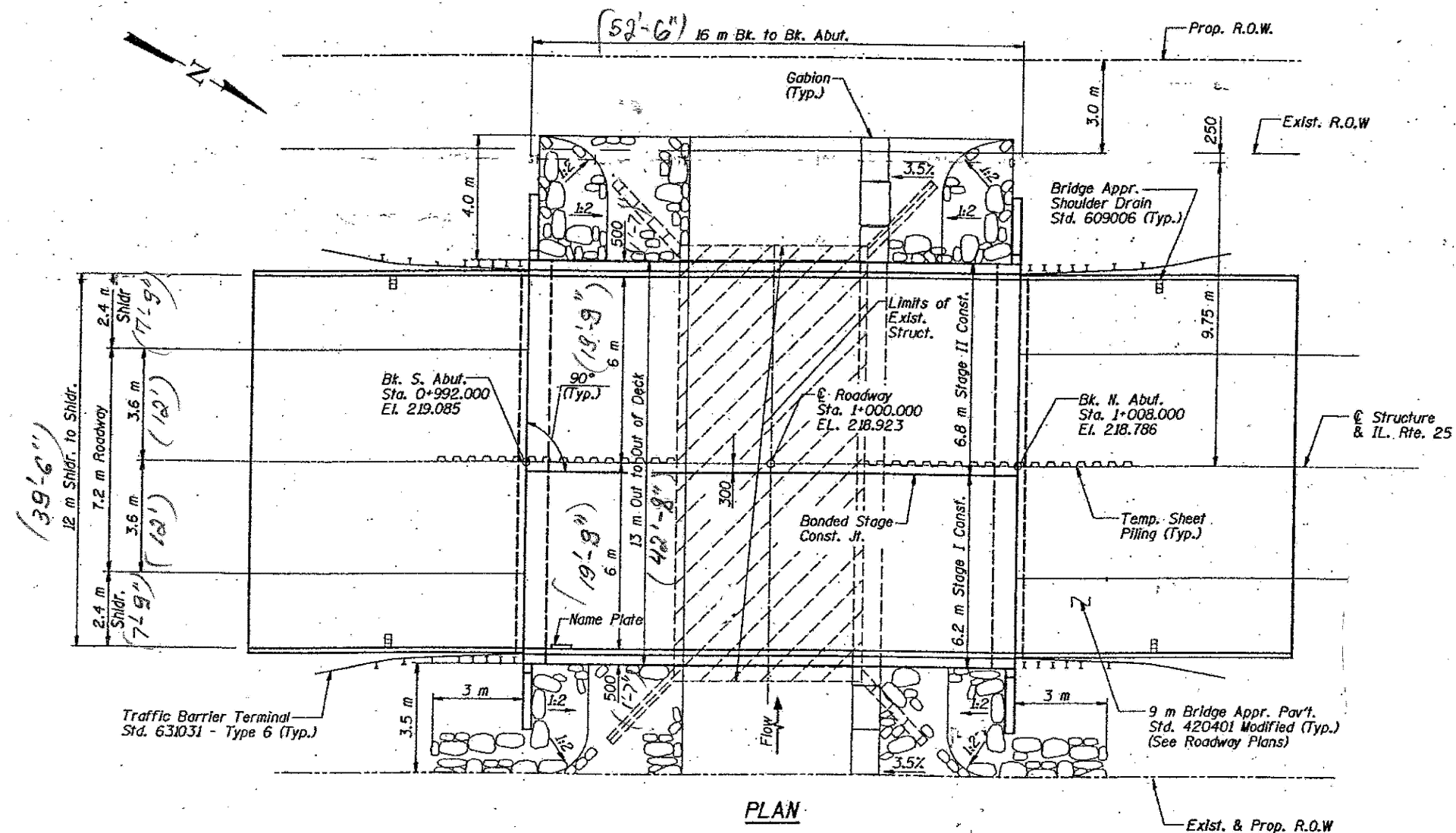
FOR INFORMATION ONLY

EXISTING PLANS
LOCATION 25 (SN 045-2024)

USER NAME = mohammad.hamwi	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	EXISTING STRUCTURAL PLANS (SN 045-2024)	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
	DRAWN -	REVISED -			VAR	2024-1008-BDS	VARIOUS	80	57	
PLOT SCALE = 0.19688633' / in.	CHECKED -	REVISED -			CONTRACT NO. 62X45					
PLOT DATE = 5/15/2025	DATE -	REVISED -			ILLINOIS FED. AID PROJECT					
			SCALE:	SHEET	OF 62 SHEETS	STA.	TO STA.			



CROSS SECTION
(Looking North)



PLAN

FOR INFORMATION ONLY

ILLINOIS DEPARTMENT OF
TRANSPORTATION

EXISTING PLANS
LOCATION 26 (SN 045-2025)

MODEL: 34-LOCATION 34 (SN 045-2025)
FILE NAME: c:\p\work\lowdown\ind1103949\03025-sh-structure.dgn

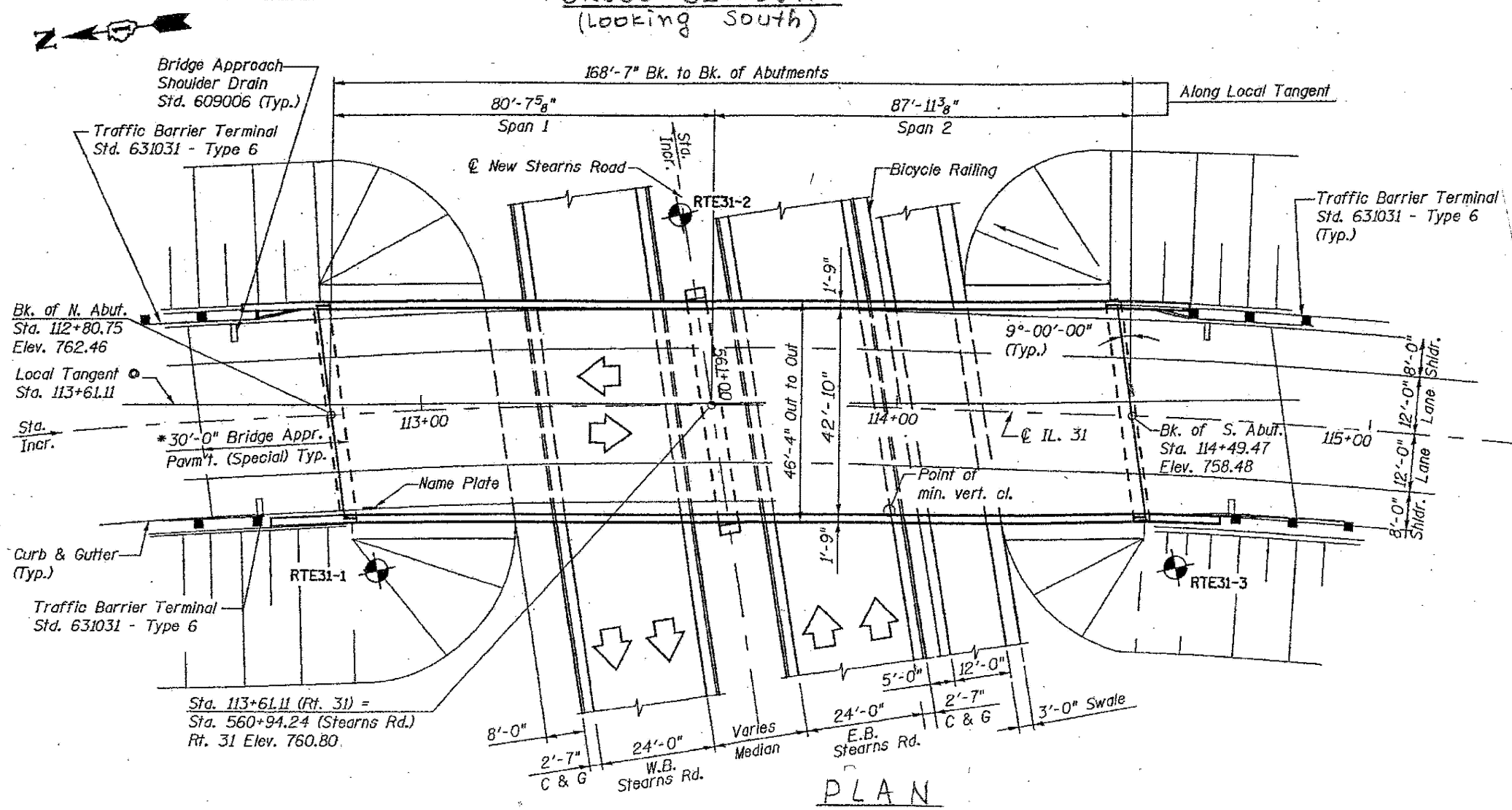
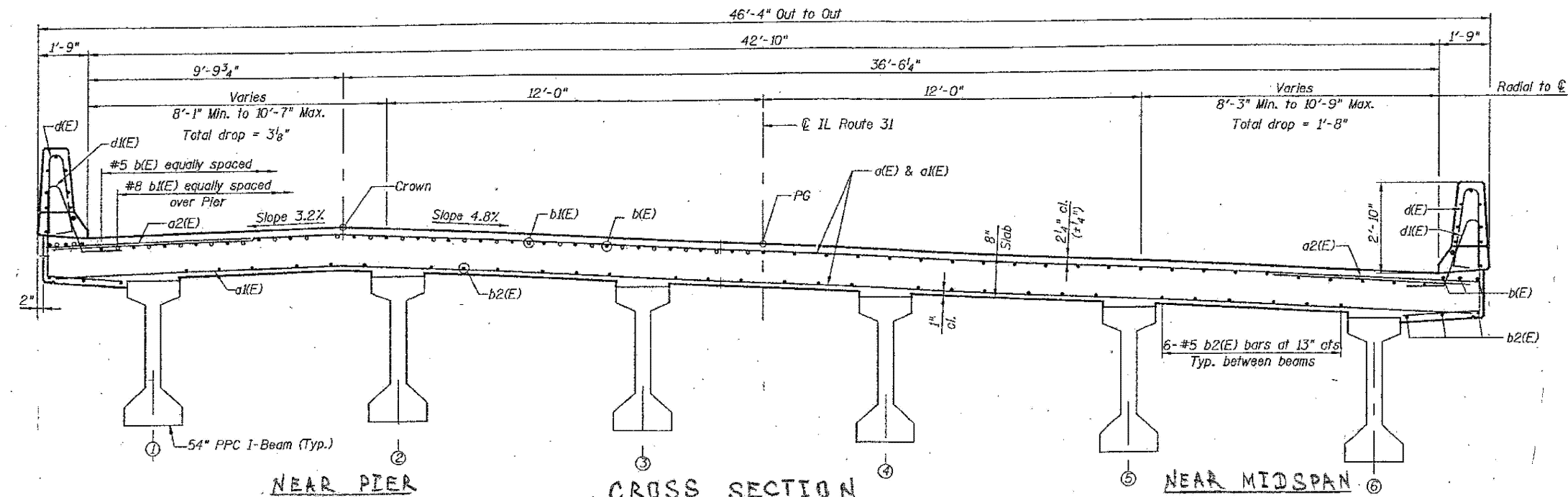
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PLOT SCALE = 0.16666633' / in.	DRAWN -	REVISED -
PLOT DATE = 5/15/2025	CHECKED -	REVISED -
	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING STRUCTURAL PLANS (SN 045-2025)

SCALE: SHEET OF 62 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2024-1008-BDS	VARIOUS	80	58
CONTRACT NO. 62X45				
ILLINOIS FED. AID PROJECT				



FOR INFORMATION ONLY

ILLINOIS DEPARTMENT OF
TRANSPORTATION

EXISTING PLANS
LOCATION 27 (SN 045-2031)

MODEL: 35-LOCATION 35 (SN 045-2031)
FILE NAME: c:\p\work\hamw\1103949D\103025-shr-schedule.dgn

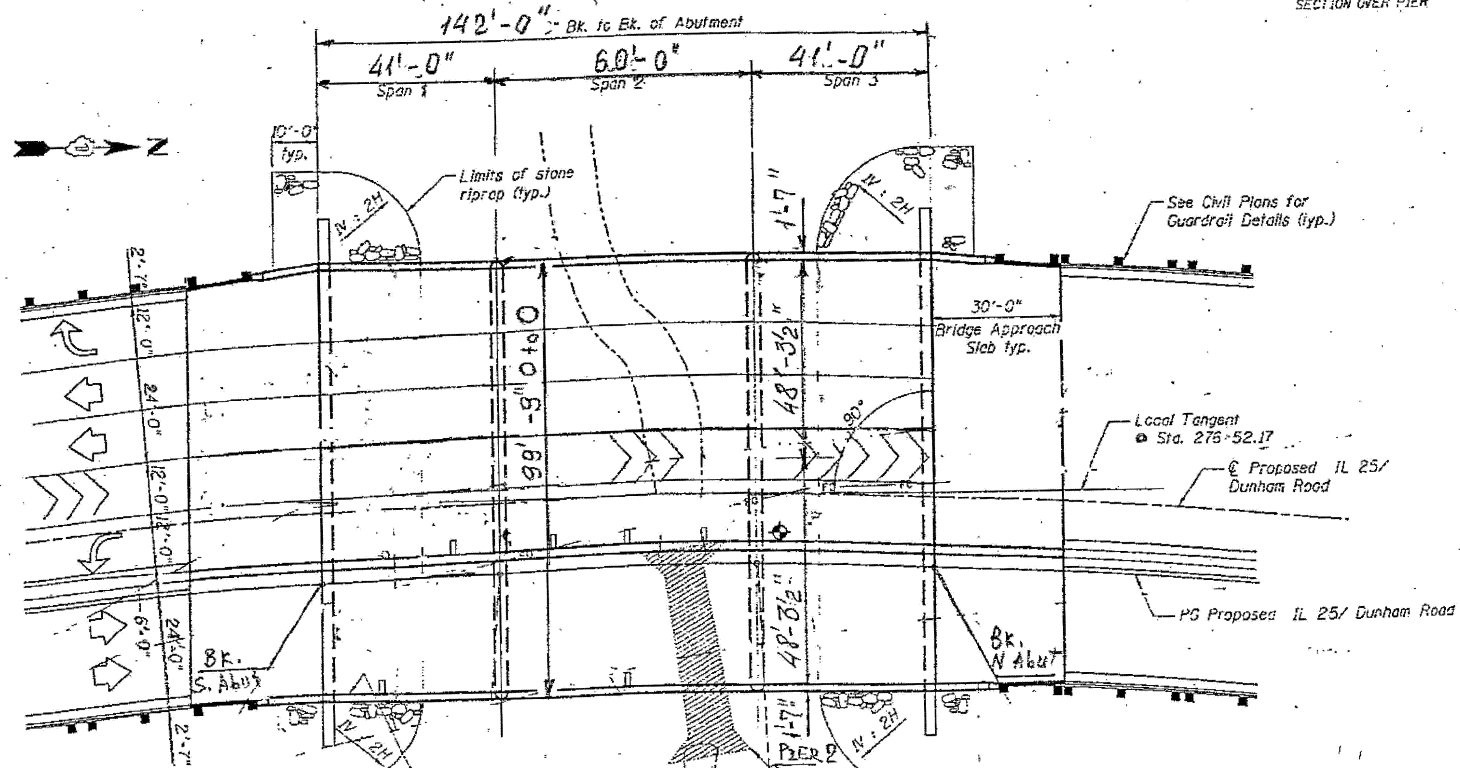
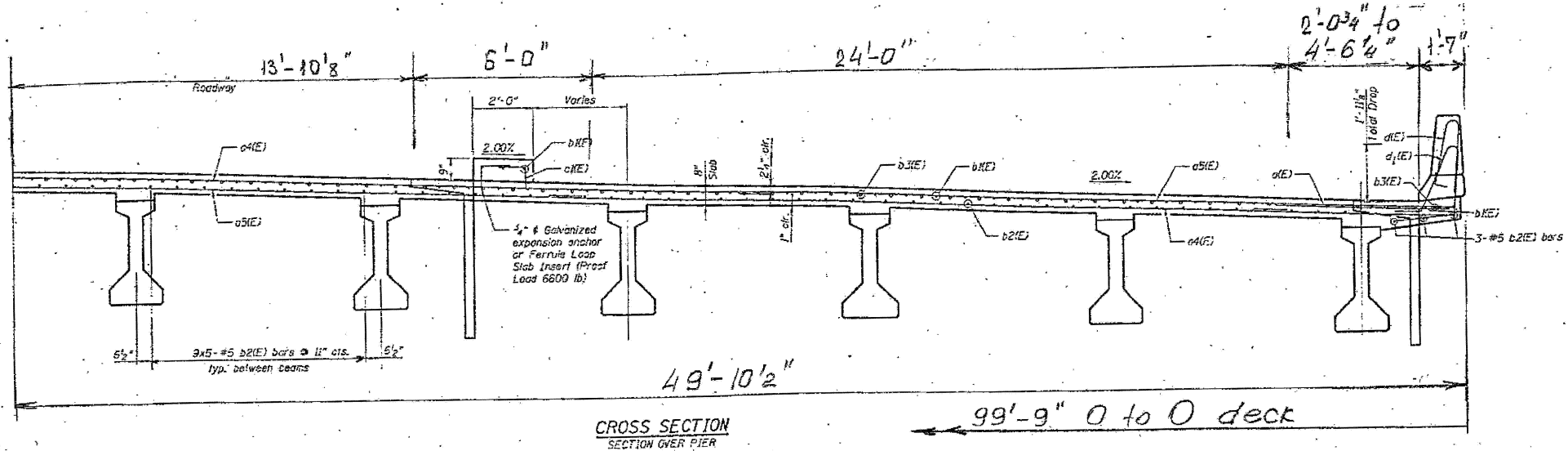
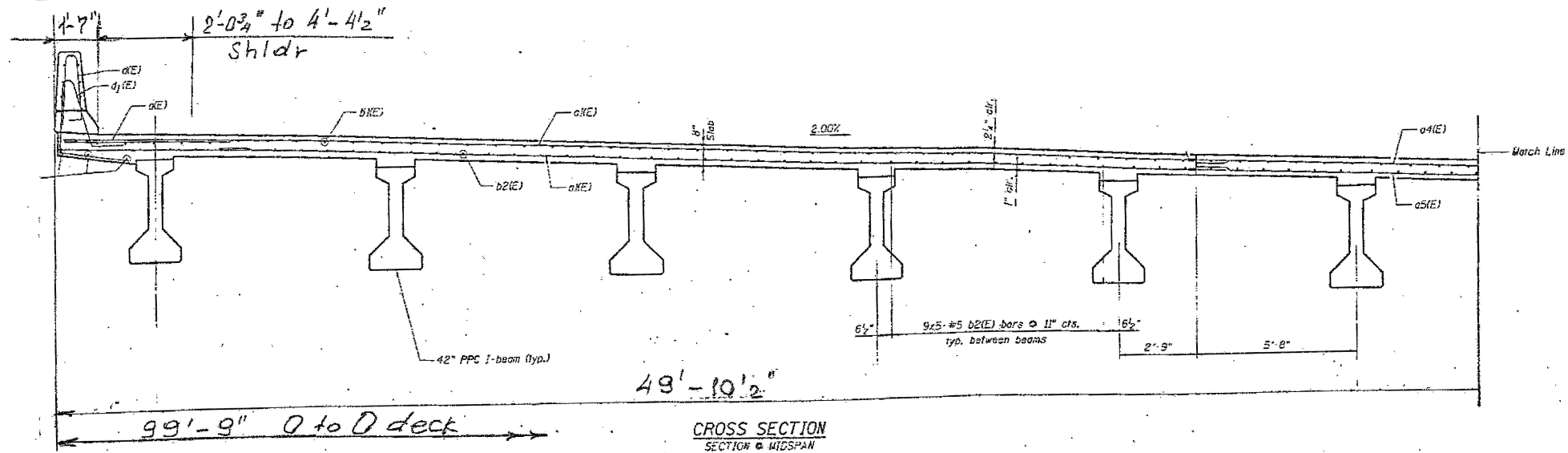
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PLOT SCALE = 0.16666633 / in.	DRAWN -	REVISED -
PLOT DATE = 5/15/2025	CHECKED -	REVISED -
	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING STRUCTURAL PLANS (SN 045-2031)

SCALE: SHEET OF 62 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2024-1008-BDS	VARIOUS	80	59
CONTRACT NO. 62X45				
ILLINOIS FED. AID PROJECT				



FOR INFORMATION ONLY

ILLINOIS DEPARTMENT OF
TRANSPORTATION

EXISTING PLANS
LOCATION 28 (SN 045-2032)

USER NAME = mohammad.hamwi	DESIGNED -	REVISED -
PLOT SCALE = 0.16666633' / in.	DRAWN -	REVISED -
PLOT DATE = 5/15/2025	CHECKED -	REVISED -
	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING STRUCTURAL PLANS (SN 045-2032)

SCALE: SHEET OF 62 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2024-1008-BDS	VARIOUS	80	60
CONTRACT NO. 62X45				
ILLINOIS FED. AID PROJECT				

Benchmark BM-24:
"Aluminum Disk" set in concrete, 0.50± mile east of Stearns Road and
Dunham Road at the south side of Stearns Road. Elev. 762.678
No existing structure.

FOR INFORMATION ONLY

STATION 138+59.20
F.A.P. 361
SECTION 06-00214-18-RP
BUILT 201. BY
STATE OF ILLINOIS
LOADING HL-93
STRUCTURE NO. 045-2033

NAME PLATE

See std. 515001

LOADING HL-93

Allow 50#/sq. ft. for future wearing surface.

DESIGN SPECIFICATIONS

2010 AASHTO LRFD Bridge Design Specifications (5th ed.)

DESIGN STRESSES

FIELD UNITS

$f'_c = 3,500$ psi
 $f_y = 60,000$ psi (reinforcement)

PRECAST PRESTRESSED UNITS

$f'_c = 6,000$ psi
 $f_{ci} = 5,000$ psi
 $f_{pu} = 270,000$ psi ($\frac{1}{2}$ " ϕ low lax. strands)
 $f_{pr} = 201,960$ psi ($\frac{1}{2}$ " ϕ low lax. strands)

CURVE DATA

Along @ IL Rte 25

$\Delta = 16^\circ 49' 38.31"$ (LT)

$D = 4^\circ 20' 02"$

$R = 1322.00'$

$T = 195.54'$

$L = 388.26'$

$E = 14.38'$

S.E. = 3.5% LT

P.C. STA. = 137+52.75

P.T. STA. = 141+41.01

P.L. STA. = 139+48.29

SE Attained Sta. 135+60.34

to Sta. 138+04.55

SE Removed Sta. 140+89.21

to Sta. 143+33.41

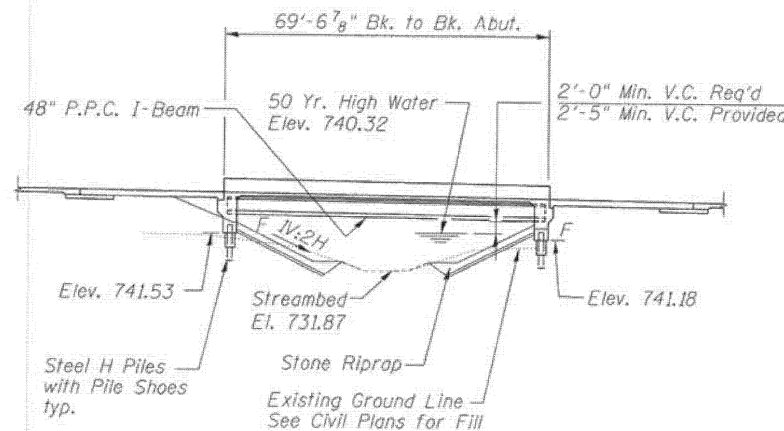
SEISMIC DATA

Seismic Performance Zone (SPZ) = 1

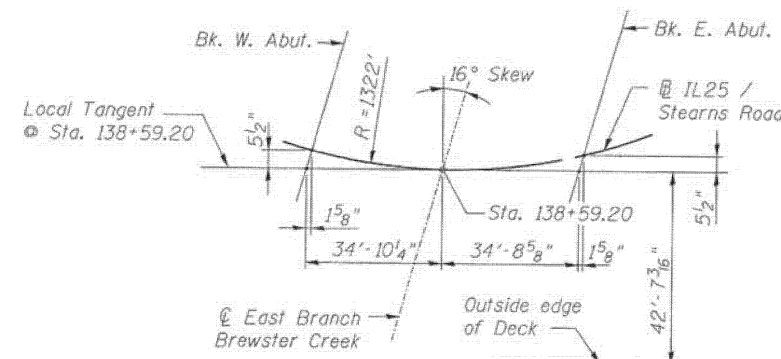
Design Spectral Acceleration at 1.0 sec. ($S_{0.1}$) = 0.08 g

Design Spectral Acceleration at 0.2 sec. ($S_{0.2}$) = 0.14 g

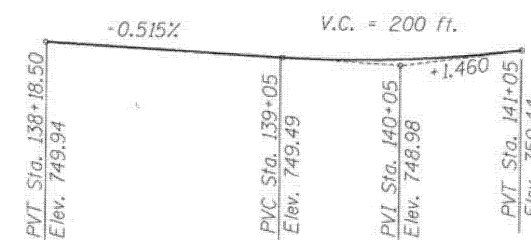
Soil Site Class = D



ELEVATION

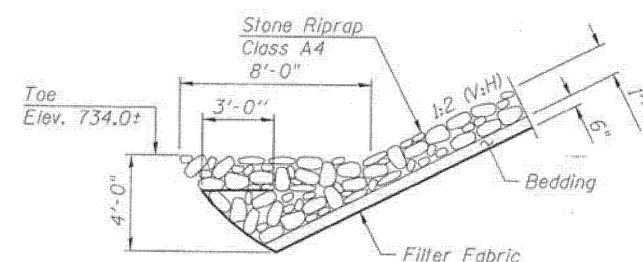


OFFSET SKETCH

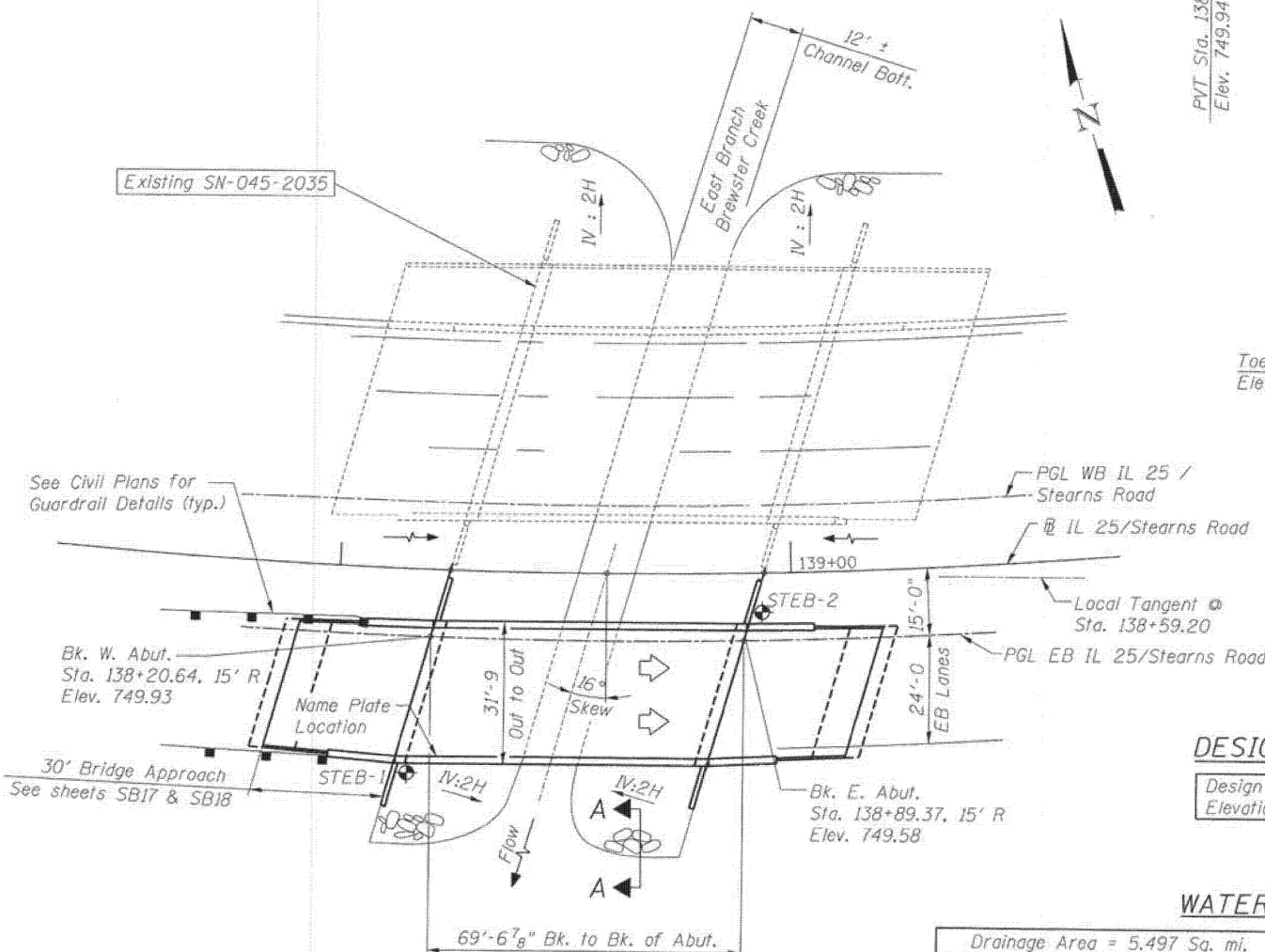


PROFILE GRADE

(@ IL 25/Stearns Rd.)



SECTION A-A



PLAN

DESIGN SCOUR ELEVATION TABLE

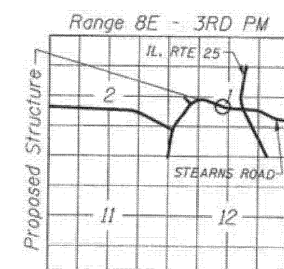
Design Scour Elevation (ft.)	W. Abut.	Piers	E. Abut.
	741.53	NA	741.18

WATERWAY INFORMATION

Drainage Area = 5.497 Sq. mi.								
Flood	Freq. Yr.	0 C.F.S.	Opening Sq. Ft.		Head - Ft.		Headwater El.	
			Exist.	Prop.	H.W.E.	Exist.	Prop.	Exist.
Design	50	529	N/A	302.8	740.32	N/A	0.04	740.36
Base	100	678	N/A	331.7	740.65	N/A	0.07	740.72
Overtopping	>500**	4412	N/A	474.7	N/A	N/A	N/A	749.00
Max. Calc.	500*	1000	N/A	352.0	741.32	N/A	0.17	741.49

* 500-Year Flowrate determined from analytical frequency curve - WSEL'S Extrapolated

** Overtopping occurs above the 500-Year WSEL under proposed conditions



LOCATION SKETCH

GENERAL PLAN & ELEVATION
IL 25/STEARNS ROAD OVER THE
EAST BRANCH OF BREWSTER CREEK
F.A.P. 361 - SEC. 06-00214-18-RP
KANE COUNTY

STATION 138+59.20
STRUCTURE NO. 045-2033

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING STRUCTURAL PLANS (SN 045-2033)

SCALE: SHEET OF 62 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2024-1008-BDS	VARIOUS	80	61
CONTRACT NO. 62X45				

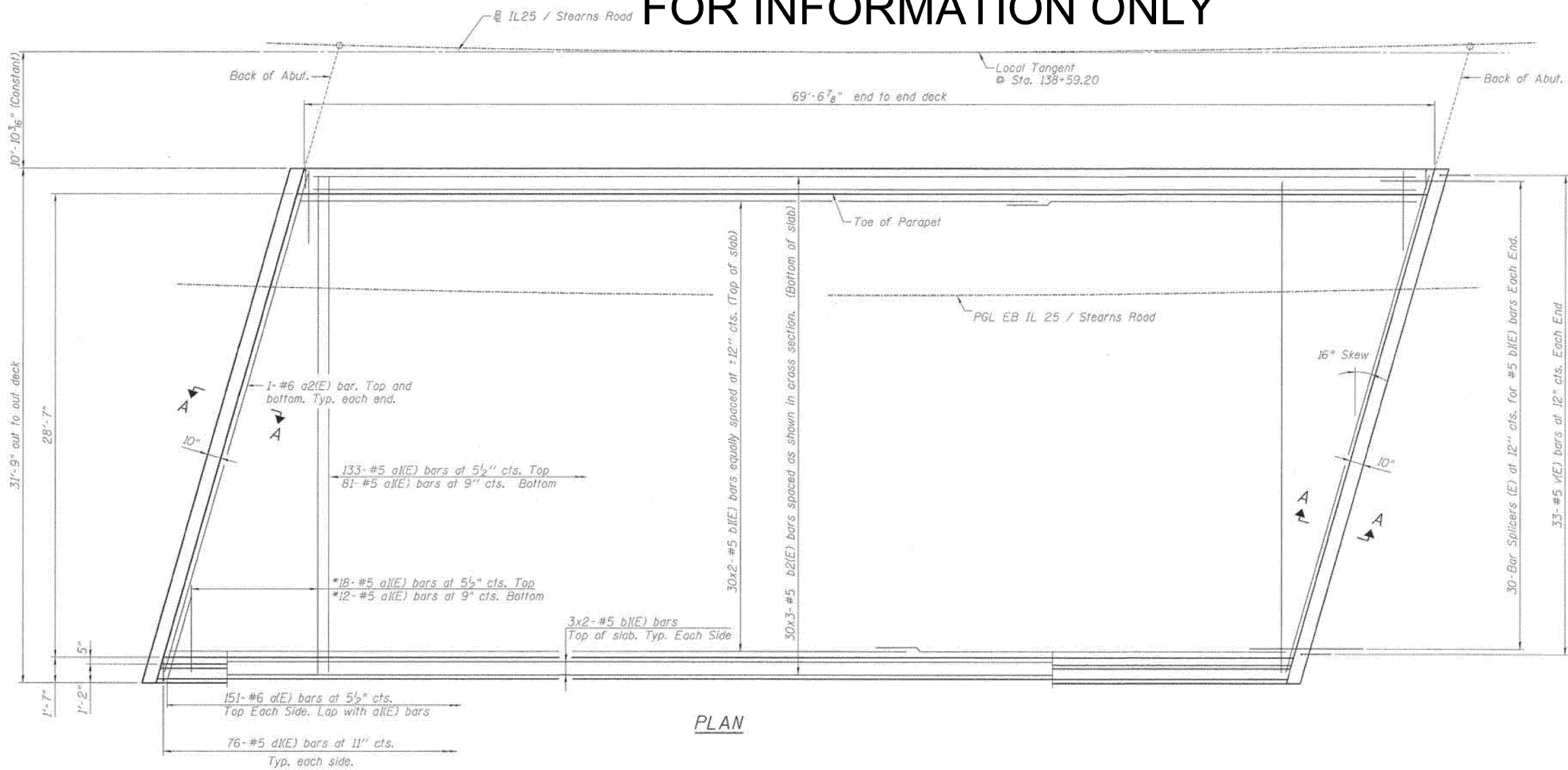
ILLINOIS FED. AID PROJECT

MODEL: 37A-LOCATION 37A (SN 045-2033)
FILE NAME: c:\p\work\kdw\hamm\1103949D\03025-sh-schedule.dgn

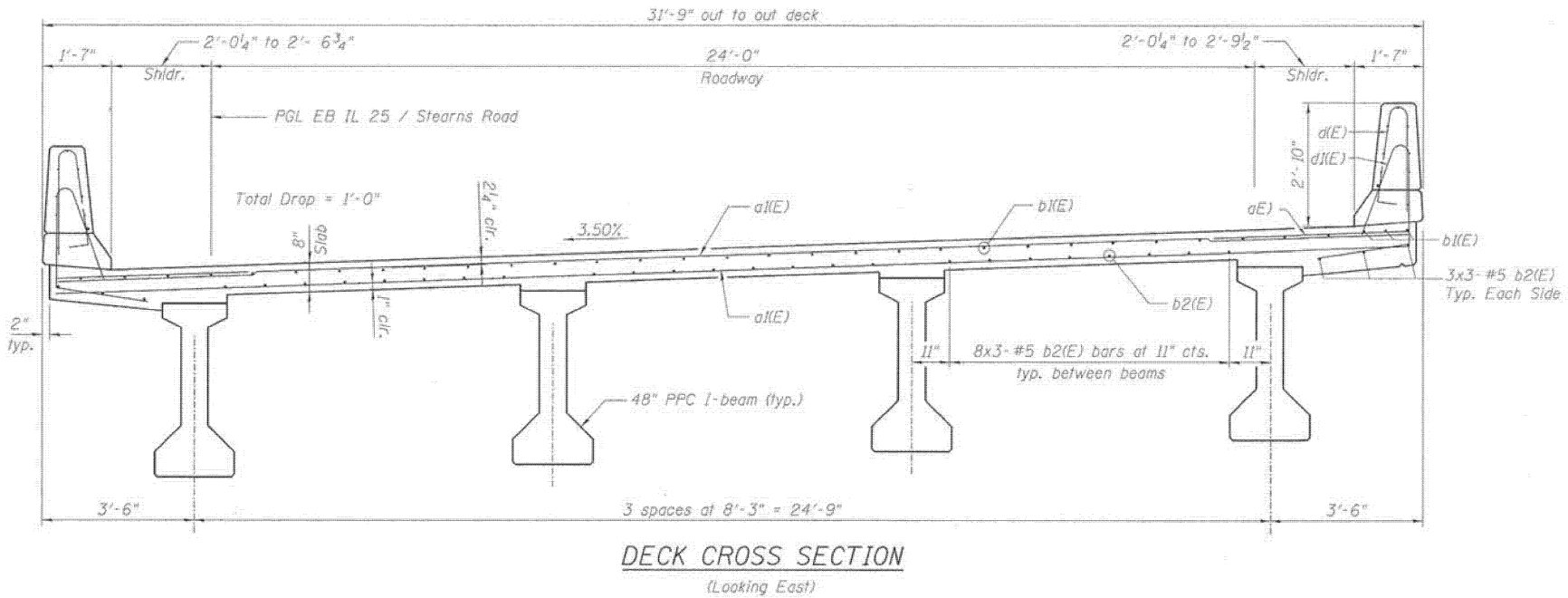
benesch
engineers • scientists • planners
Alfred Benesch & Company
205 North Michigan Avenue, Suite 2400
Chicago, Illinois 60601
312-565-0450 Job No. 10074

USER NAME = mohammad.hamwi	DESIGNED -	REVISED -
PLOT SCALE = 0.16666633' / in.	DRAWN -	REVISED -
PLOT DATE = 5/15/2025	CHECKED -	REVISED -
	DATE -	REVISED -

FOR INFORMATION ONLY



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



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

- NOTES:
1. See sheet SB9 for superstructure details and Bill of Material.
 2. For Section A-A and diaphragm details see sheet SB8.
 3. Bars indicated thus 20 x 3-#5 etc. indicates 20 lines of bars with 3 lengths per line.
 4. See sheet SB9 for parapet reinforcement.

MODEL: 378-LOCATION 378 (SN 045-2033)
FILE NAME: c:\p\work\khalid\hamid\1103949D\03025-shr-schedule.dgn

benesch
engineers · scientists · planners

Alfred Benesch & Company
205 North Michigan Avenue, Suite 2400
Chicago, Illinois 60601
312-585-0450 Job No. 10074

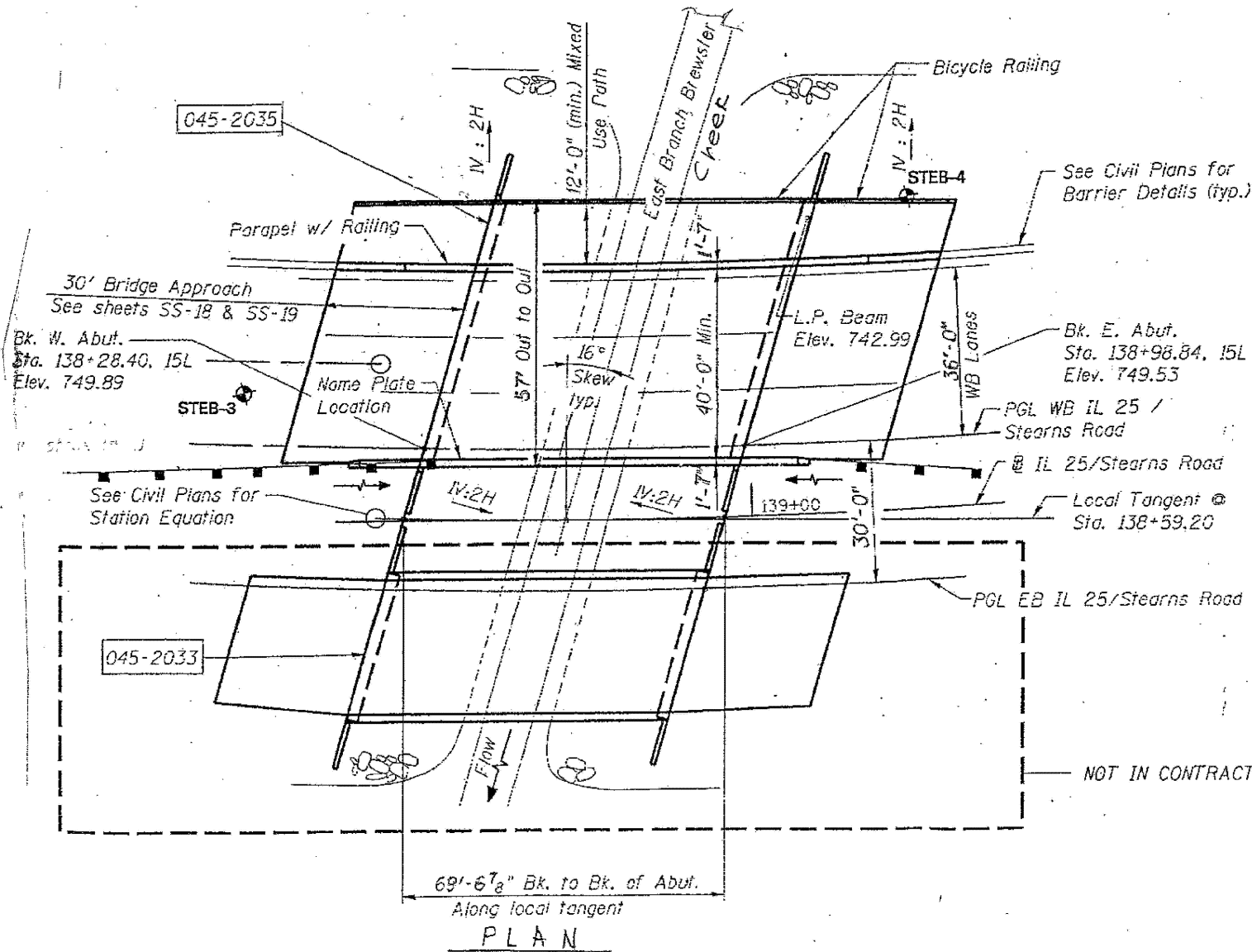
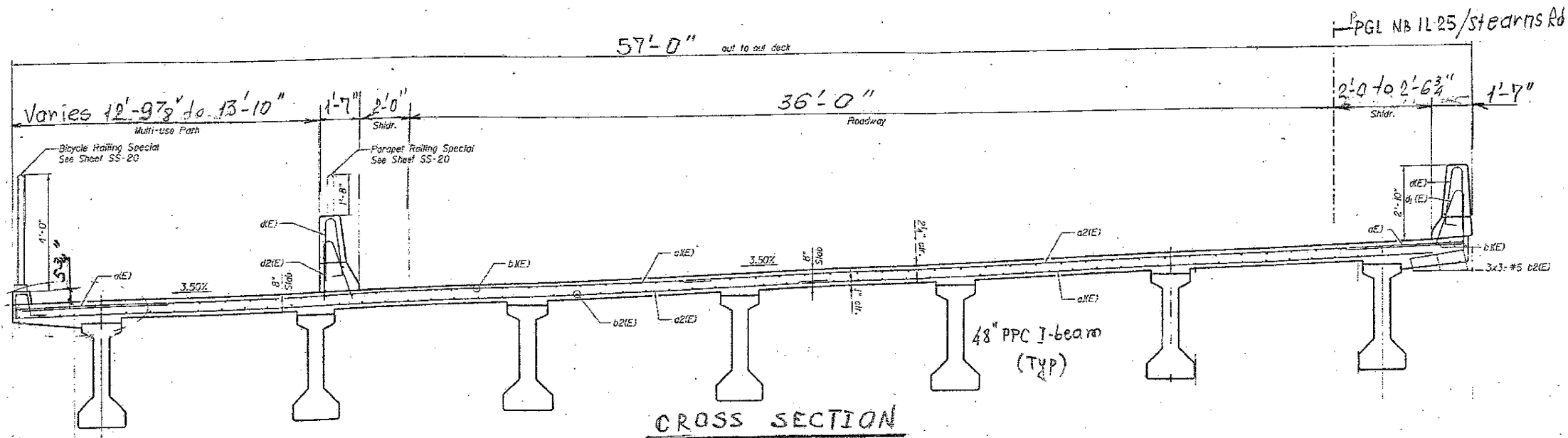
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	DRAWN -	REVISED -
PLOT SCALE = 0.16666633' / in.	CHECKED -	REVISED -
PLOT DATE = 5/15/2025	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING STRUCTURAL PLANS (SN 045-2033)

SCALE: SHEET OF 62 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2024-1008-BDS	VARIOUS	80	62
CONTRACT NO. 62X45				
ILLINOIS FED. AID PROJECT				



FOR INFORMATION ONLY

ILLINOIS DEPARTMENT OF
TRANSPORTATION

EXISTING PLANS
LOCATION 29 (SN 045-2035)

MODEL: 38-LOCATION 38 (SN 045-2035)
FILE NAME: c:\p\work\dwg\hamw\1103949D\103026-sh-schedule.dgn

USER NAME = mohammad.hamwi	DESIGNED -	REVISED -
PLOT SCALE = 0.16666633 / in.	DRAWN -	REVISED -
PLOT DATE = 5/15/2025	CHECKED -	REVISED -
	DATE -	REVISED -

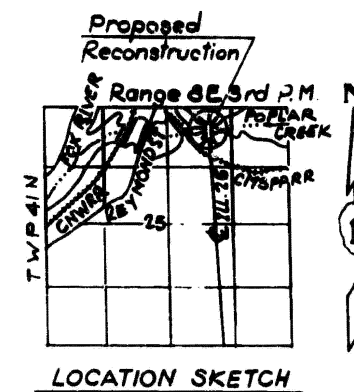
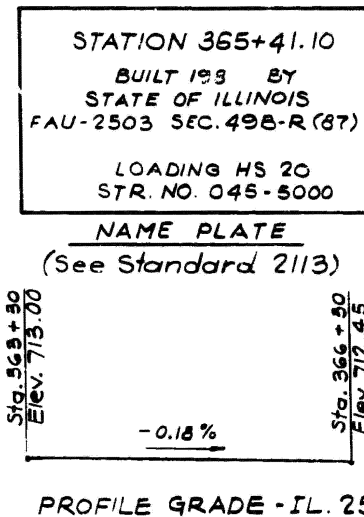
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING STRUCTURAL PLANS (SN 045-2035)

SCALE: SHEET OF 62 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2024-1008-BDS	VARIOUS	80	63
CONTRACT NO. 62X45				
ILLINOIS FED. AID PROJECT				

Existing Structure: Station 365+41.5 Built in 1930 Carries IL Route 25 over Poplar Creek, Structure no. 045-0043
Superstructure Single Span reinforced concrete slab. Substructure closed abutments. Span Length 29'-0" back to back
of abutments. Bridge Cross section provided for 4-10 ft Lanes with 3 to 4 ft shoulders both sides. West portion
was widened in the past to accommodate a 5ft sidewalk. Structure to be removed and replaced. Traffic to be
maintained utilizing stage construction
No Salvage.



CURVE DATA - IL 25

P.I. Sta. = 364 + 85.35
 $\Delta = 20^{\circ} 19' 20''$
 $D = 4^{\circ} 00' 00''$
 $R = 1432.39'$
 $T = 256.72'$
 $L = 508.06'$
 $E = 22.62'$
 $S.E. = 0.031\%$
P.C. Sta. = 362 + 26.63
P.T. Sta. = 367 + 34.69

GENERAL NOTES

DESIGN SPECIFICATIONS
AASHTO 1985 Standard Specifications for highway
bridges with 1984, 1985 and 1986 Interim Specif.

CONSTRUCTION SPECIFICATIONS

Illinois Department of Transportation Standard
Specifications for Road and Bridges Construction
Adopted October 1, 1983.

LOADING - HS 20-44

Allow 25#/sq.ft. for future wearing surface

DESIGN STRESS

CAST IN PLACE CONCRETE

$f_c = 3,500 \text{ psi}$
 $f_y = 60,000 \text{ psi (reinf.)}$

f_y = 60,000 psi (reinf.)

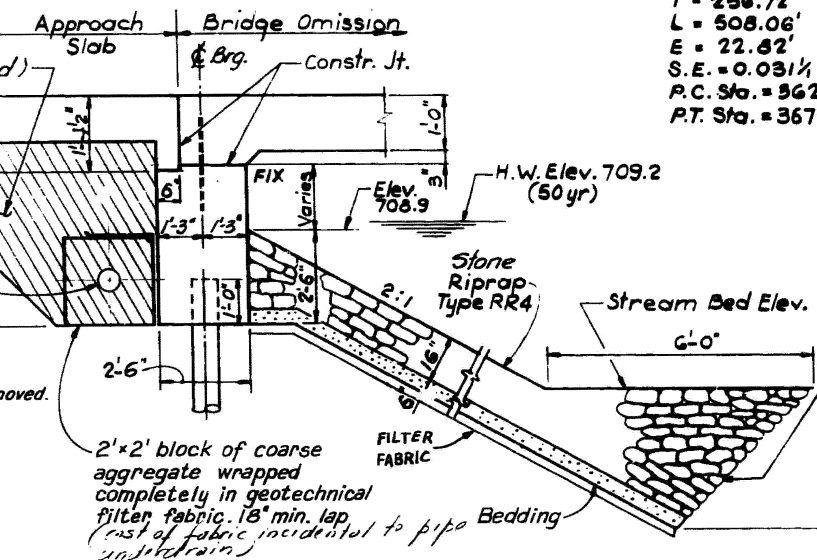
FOR INFORMATION ONLY

EXTRA THICKNESS OF STONE RIPRAP WILL NOT BE MEASURED FOR PAYMENT, BUT WILL BE INCLUDED IN THE UNIT PRICE OF "STONE RIPRAP CLASS A4."

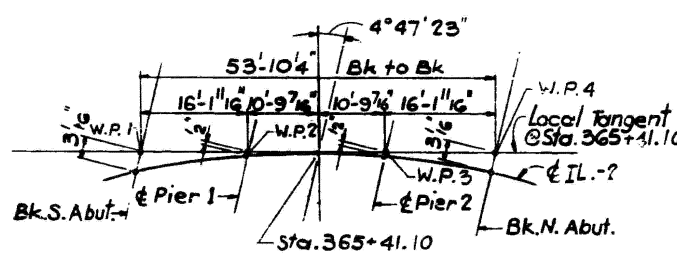
TOTAL BILL OF MATERIAL

ITEM	UNIT	SUPER	SUB	TOTAL
REMOVAL OF EXISTING STRUCTURE	EACH			1
PROTECTIVE COAT	SQ. YD	383.2		383.2
STRUCTURE EXCAVATION	CU. YD		312.5	312.5
FLOOR DRAINS	EACH	3		3
CLASS X CONCRETE, SUPERSTRUCTURE	CU. YD	151.1		151.1
CLASS X CONCRETE	CU. YD		196.1	196.1
REIN. REINFORCEMENT BARS	LBS	15,490	11,470	26,960
REINFORCEMENT BARS, EPOXY COATED	LBS	14,750		14,750
NAME PLATE	EACH			1
STONE RIPRAP	SQ. YD		425.0	425.0
TEST PILE, CONCRETE	EACH		4	4
FURNISHING AND DRIVING CONCRETE PILE	LIN. FT		1,260	1,260
CHANNEL EXCAVATION	CU. YD		195.0	195.0
POROUS GRANULAR EMBANKMENT	CU. YD		201.3	201.3
TEMPORARY SHEET PILING	SQ. FT.		766.6	766.6
ALUMINUM RAILING, TYPE L	LIN. FT.	104		104
PIPE UNDERDRAINS 6" (Perfor C rug) (Pc)	LIN. FT.		150	150

FILTER FABRIC FOR RIPRAP SQ. YD. **425**
 **Surface area to be applied includes the top of bridge deck, sidewalks, parapets, and the inside face of sidewalk curbs and parapets.



SECTION THRU ABUTMENT AND
BROKEN CONCRETE RIPRAP TREATMENT



OFFSET SKETCH

WATERWAY INFORMATION

Drainage Area 41.8033 sq. mi. Low Grade Elev. 712.45 @ 365+00									
Flood	Freq. Yr.	Q C.F.S.	Opening Sq. Ft.		Mat. H.W.E.	Head-Ft		Headwater Elev.	
			Exist.	Prop.		Exist.	Prop.	Exist.	Prop.
Design	50	1700	152	228	708.85	0.1	0.1	708.95	718.9
Base	100	2000	200	246	709.25	0.1	0.1	709.35	709.3
Overlapping	250	2650		320	711.04		1.63		712.7
Max. Calc.	500	2794		320	712.45	1.60	1.60	714.05	714.0

DATE: 12-30-1986

REVISED		ILLINOIS DEPARTMENT OF TRANSPORTATION
BY	DATE	
L.L.	8-24-85	
GENERAL PLAN AND ELEVATION ILLINOIS RTE 25 OVER POPLAR CREEK FAU-2503 SECTION 49B-R (87) STA. 365 + 41.10 KANE COUNTY STRUCTURE NUMBER 045-5000		
DESIGNED BY	ZJZ	LOUIS BERGER & ASSOCIATES, INC. CHICAGO, IL
CHECKED BY	S.A.	
		8-

USER NAME = mohammad.hamwi	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 0.16666633' / in.	CHECKED -	REVISED -
PLOT DATE = 5/15/2025	DATE -	REVISED -

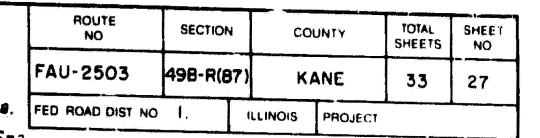
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING STRUCTURAL PLANS (SN 045-5000)

SCALE:	SHEET	OF 62 SHEETS	STA.	TO STA.
--------	-------	--------------	------	---------

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHE NO.
VAR	2024-1008-BDS	VARIOUS	80	64
		CONTRACT NO. 62X45		
		ILLINOIS FED. AID PROJECT		

MODEL: 39A-LOCATION 39A (SN 045-5000)
FILE NAME: c:\pw work\lowdott\harmwim\d1103949\D103025-shi-schedule dan



REVISED		ILLINOIS DEPARTMENT OF TRANSPORTATION	
BY	DATE	DECK DETAIL ILLINOIS RTE 25 OVER POPLAR CREEK FAU-2503 SECTION 49B-R (87) STA. 365+41.10 KANE COUNTY STRUCTURE NUMBER 045-5000	
L.L.	8-24-88		
DRAWN BY	W.T.	LOUIS BERGER & ASSOCIATES, INC. CHICAGO, IL.	S-3
CHECKED BY	B.M.		

DATE: 12-30-1988

USER NAME = mohammad.hamwi	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 0.19869633 ' / in.	CHECKED -	REVISED -
PLOT DATE = 5/15/2025	DATE -	REVISED -

SCALE:	SHEET	OF 62 SHEETS	STA.	TO STA.
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F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2024-1008-BDS	VARIOUS	80	65
		CONTRACT NO. 62X45		
		ILLINOIS	FED. AID PROJECT	

EXISTING STRUCTURE: TOLL FREE BRIDGE NO. 625, IDOT STRUCTURE NO. 045-0074, BUILT UNDER CONTRACT N4-C IN 1956, CARRYING IL ROUTE 72 OVER I-90. THE SUPERSTRUCTURE CONSISTS OF A 4-SPAN PRECAST PRESTRESSED CONCRETE (PPC) I-BEAMS AND A 7½" CONCRETE DECK WITH A CONCRETE OVERLAY. THE SUBSTRUCTURE CONSISTS OF STUB ABUTMENTS AND MULTI-COLUMN CONCRETE PIERS SUPPORTED BY CONCRETE FILLED METAL SHELL PILES. THE STRUCTURE LENGTH IS 271'-5¾" BACK TO BACK OF ABUTMENTS, AND THE WIDTH IS 36'-4" OUT-TO-OUT.

NO SALVAGE.

2012 AASHTO LRFD DESIGN SPECIFICATIONS,
6TH EDITION, WITH 2013 INTERIMS.ILLINOIS STATE TOLL HIGHWAY AUTHORITY
STRUCTURE DESIGN MANUAL, MARCH 2014
AND TOLLWAY DESIGN BULLETINS THRU 14-08.

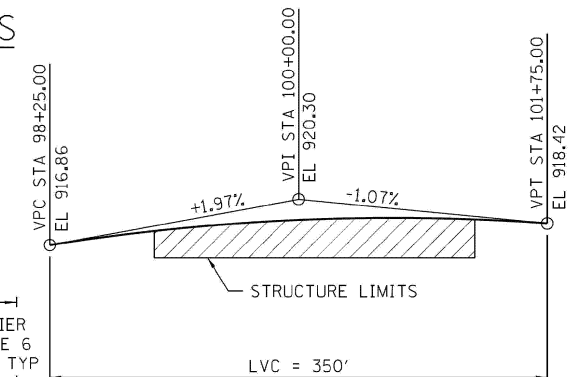
ILLINOIS DEPARTMENT OF TRANSPORTATION
BRIDGE MANUAL, JANUARY 2012.

IDOT GUIDE BRIDGE SPECIAL PROVISIONS (GBSPs)

TOLLWAY SUPPLEMENTAL SPECIFICATIONS TO THE
IDOT STANDARD SPECIFICATIONS FOR ROAD AND
BRIDGE CONSTRUCTION, MARCH 2014;

IDOT STANDARD SPECIFICATIONS FOR ROAD AND
BRIDGE CONSTRUCTION, ADOPTED JANUARY 1, 2012;

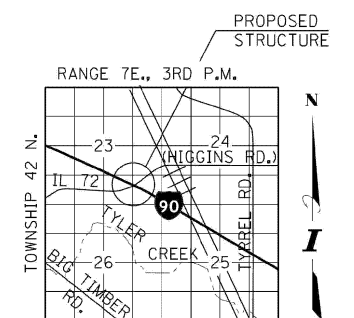
IDOT SUPPLEMENTAL SPECIFICATIONS AND RECURRING
SPECIAL PROVISIONS, ADOPTED JANUARY 1, 2014.



IL ROUTE 72 (HIGGINS ROAD)
FUNCTIONAL CLASS: OTHER PRINCIPAL ARTERIAL
ADT: 16,000 (2011); 20,416 (2032)
ADTT: 800 (2011); 1,021 (2032)
DHV: 1.550
DESIGN SPEED: 45 M.P.H.
POSTED SPEED: 40 M.P.H.
2-WAY TRAFFIC
DIRECTIONAL DISTRIBUTION 50:50

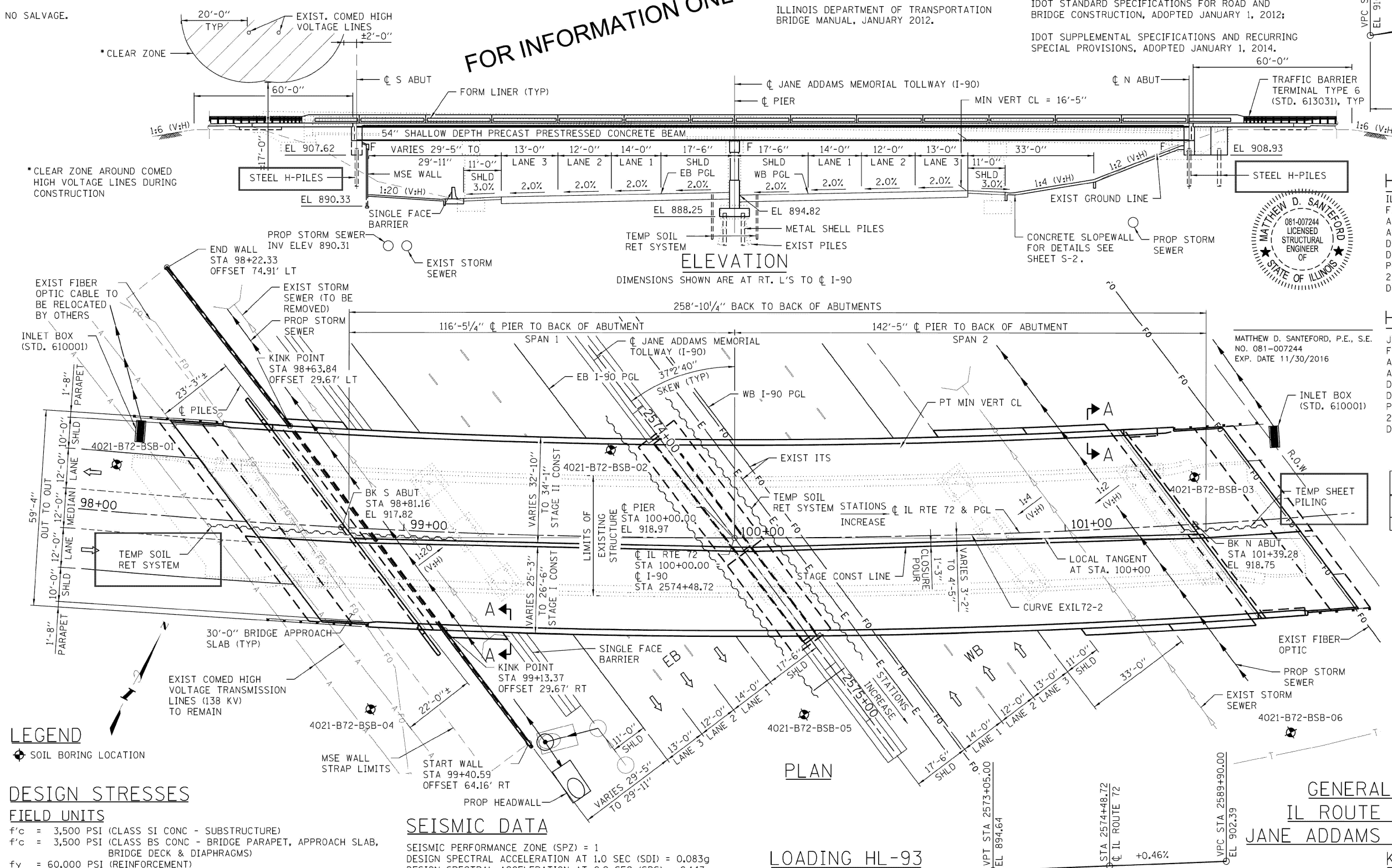
JANE ADDAMS MEMORIAL TOLLWAY (I-90)
FUNCTIONAL CLASS: INTERSTATE
ADT: 66,300 (2010); 105,010 (2030)
ADTT: 8,100 (2010); 12,800 (2030)
DHV: 3245
DESIGN SPEED: 70 M.P.H.
POSTED SPEED: 65 M.P.H.
2-WAY TRAFFIC
DIRECTIONAL DISTRIBUTION 50:50

LIMIT STATE		DESIGN LOAD RATING	
		INVENTORY	OPERATING
STRENGTH I	FLEXURE	1.40	1.81
	SHEAR	1.26	1.63
SERVICE III	TENSION	1.04	N/A



EL 902.39

GENERAL PLAN & ELEVATION
IL ROUTE 72 (HIGGINS RD) OVER
JANE ADDAMS MEMORIAL TOLLWAY (I-90)
KANE COUNTY
STATION 100+00.00
STRUCTURE NO. 045-9901



ALLOW 50#/SQ. FT. FOR FUTURE WEARING SURFACE

FOR SECTION A-A, SEE SHEET S-2 OF S-47.

(JANE ADDAMS MEMORIAL TOLLWAY (I-90))

f'c = 3,500 PSI (CLASS SI CONC - SUBSTRUCTURE)
f'c = 3,500 PSI (CLASS BS CONC - BRIDGE PARAPET, APPROACH SLAB,
BRIDGE DECK & DIAPHRAGMS)

fy = 60,000 PSI (REINFORCEMENT)

PRECAST PRESTRESSED UNITS

PRECAST/PRESTRESSED UNITS

f'c	=	8,000	PSI
f'ci	=	6,800	PSI
fpu	=	270,000	PSI (0.6" Ø LOW LAX. STRANDS)
fpBT	=	202,500	PSI (0.6" Ø LOW LAX. STRANDS)

SEISMIC PERFORMANCE ZONE (SPZ) = 1
DESIGN SPECTRAL ACCELERATION AT 1.0 SEC (SDI) = 0.083g
DESIGN SPECTRAL ACCELERATION AT 0.2 SEC (SDS) = 0.147g
SOIL SITE CLASS = D

$$\Delta LL + I \leq \text{SPAN LENGTH}/800$$

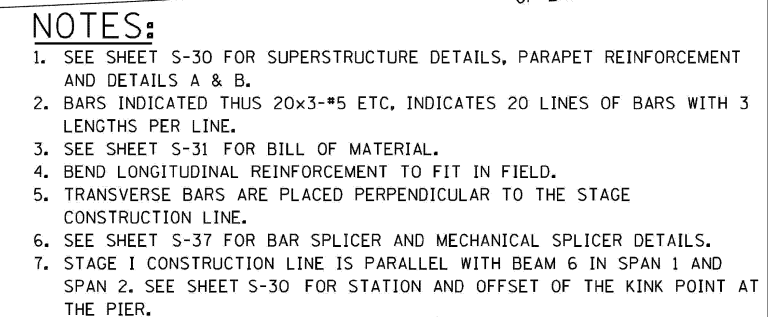
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING STRUCTURAL PLANS (SN 045-9901)

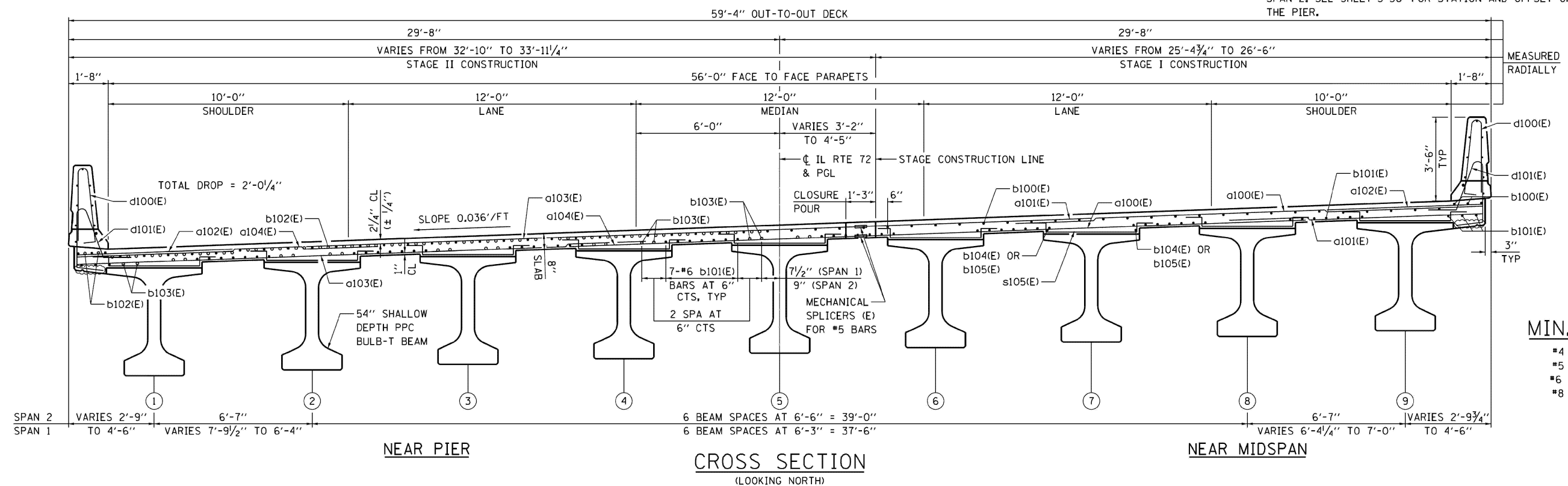
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2024-1008-BDS	VARIOUS	80	66
		CONTRACT NO. 62X45		
		ILLINOIS	FED. AID PROJECT	

MODEL: 40A-LOCATION 40A (SN 045-9901)
FILE NAME: c:\pw work\pwidot\harmwim\d1103949\ID103025-shi-schedule dan

FOR INFORMATION ONLY



DECK POUR SEQUENCE



MIN. BAR LAP

- *4 BAR = 2'-7"
- *5 BAR = 3'-3"
- *6 BAR = 3'-10"
- *8 BAR = 6'-9"

USER NAME = mohammad.hamwi	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 0.18686633' / in.	CHECKED -	REVISED -
PLOT DATE = 5/15/2025	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING STRUCTURAL PLANS (SN 045-9901)

SCALE:	SHEET	OF 62 SHEETS	STA.	TO STA.
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F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2024-1008-BDS	VARIOUS	80	67
CONTRACT NO. 62X45				
ILLINOIS FED. AID PROJECT				

MODEL: 40B-LOCATION 40B (SN 045-9901)
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MODEL: 41A-LOCATION 41A (SN 047-0029)
FILE NAME: c:\pw worklowid\hamwim\d1103949\103025-sbt-schedule dan



**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

SCALE:	SHEET	OF 62 SHEETS	STA.	TO STA.
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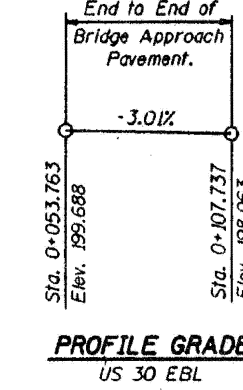
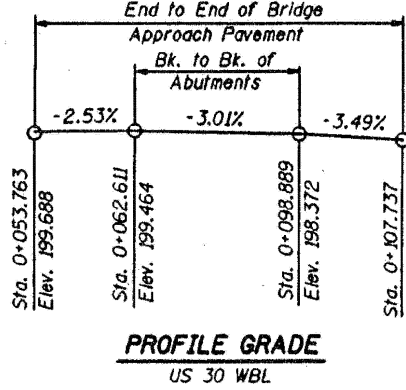
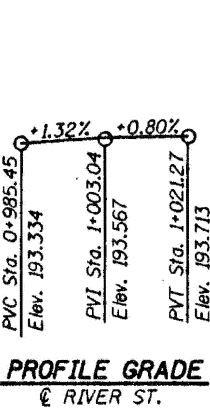
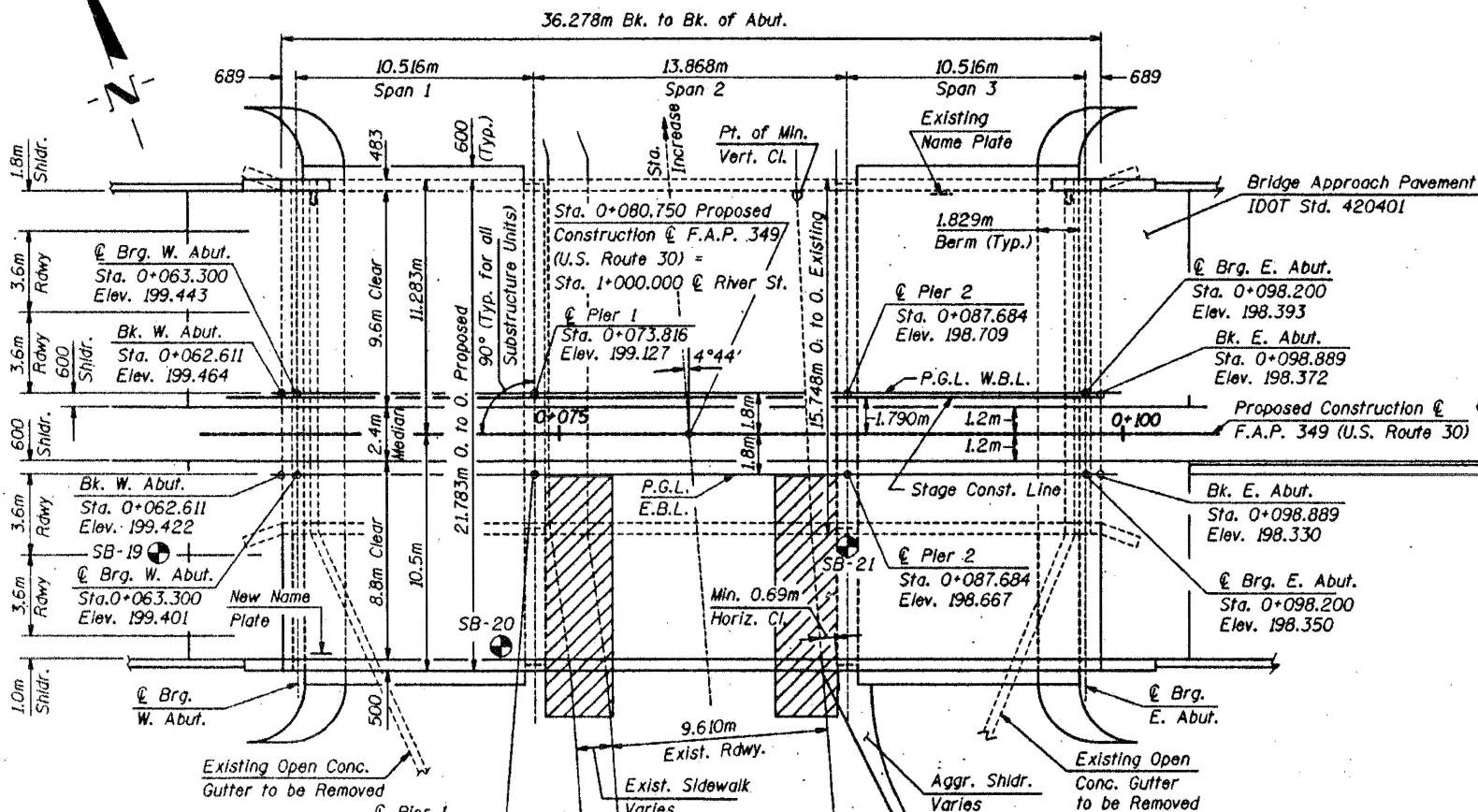
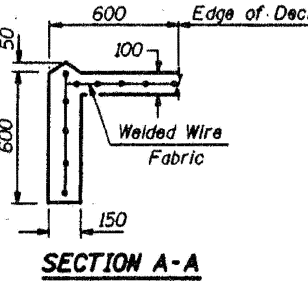
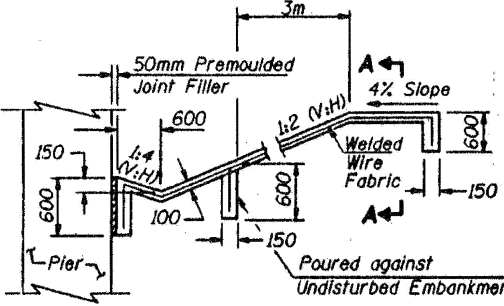
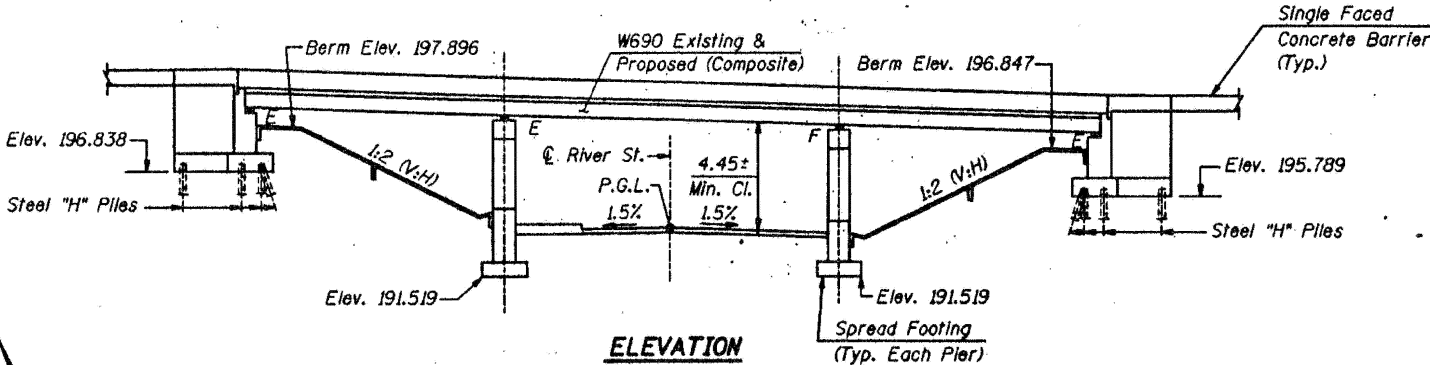
RTE. NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
U.S. 30	11HB-BY	KENDALL	267	97
FED. ROAD DIST. NO. 7 ILLINOIS FED. AID PROJECT				
SHEET 1 OF 22				

B.M. 11 Chiseled Square on S.E. corner of Abutment of River Street Bridge. Elev. 198.312

NOTE: All dimensions are in millimeters except as noted.

EXISTING STRUCTURE:

S.N.# 047-0030 Built in 1958 as Section 11 HB, F.A. Rte. 192 @ Sta. 280+57.00 (English). Redecked and made composite in 1986. Total Length = 36.278m Back to Back Abutments, Width = 15.748m O. to O. Superstructure consists of a 3 span reinforced concrete deck on WF beams. The abutments are reinforced concrete pile bents with steel H-Piles and horizontal cantilever wingwalls. The piers are reinforced concrete with multi-columns on spread footings. The Contractor shall widen the existing structure as required. Two lanes of traffic shall be maintained using stage construction. No Salvage. The Contractor shall coordinate construction with M.S.E. Wall & Bike Path construction



STATION 0+080.750
REBUILT 199 BY
STATE OF ILLINOIS
F.A.P. RTE. 349 SEC. 11HB-BY
PROJ. ACNH-F-445-349(4)
LOADING MS18
STR. NO. 047-0030
NAME PLATE
See Std. 515001

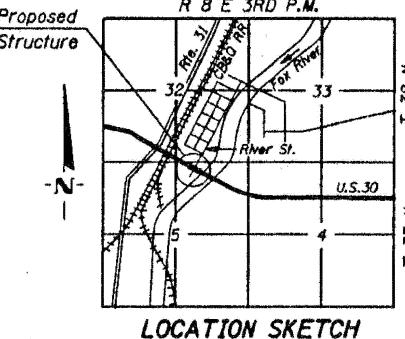


APPROVED
FOR STRUCTURAL ADEQUACY ONLY
David Booher
ENGINEER OF BRIDGES AND STRUCTURES

David Booher 6-17-98
David Booher, Illinois S.E. 081-004775 Date
Expires 11-30-98

DESIGN SPECIFICATIONS
1996 AASHTO Standard Specifications for Highway Bridges.
LOADING MS18
Allow 1.2 kN/m² for Future Wearing Surface

DESIGN STRESSES
f_c = 24 MPa
f_y = 400 MPa (Reinf.)
f_y = 250 MPa (Struct.) (M270 M Grade 250)
SEISMIC DATA
S.P.C. = A
A = 0.04g
S = 1.0



GENERAL PLAN
U.S. RTE. 30 OVER RIVER STREET
F.A.P. RTE. 349 SECTION 11HB-BY
STA. 0+080.750
KENDALL COUNTY
STR. NO. 047-0030

MTA INCORPORATED
DESIGNED: J.K.J. CHECKED: B.G.H.
DRAWN: J.P.H. DATE: June, 1998

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

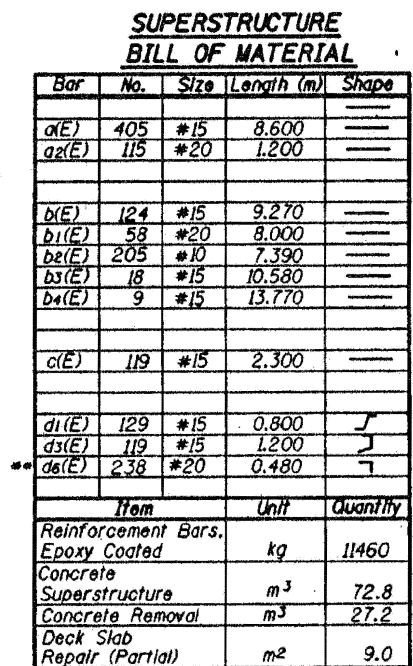
EXISTING STRUCTURAL PLANS (SN 047-0030)

SCALE: SHEET OF 62 SHEETS STA. TO STA.

RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
U.S. 30	2024-1008-BDS	VARIOUS	80	70
CONTRACT NO. 62X45				
ILLINOIS FED. AID PROJECT				

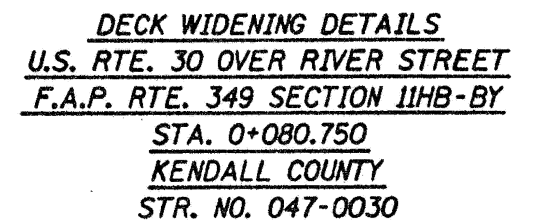
MODEL: 424-LOCATION 42A (SN 047-0030)
FILE NAME: c:\p\work\road\hamind\1103949\103025-shr-schedule.dgn

RTE. NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
U.S. 30	111B-BY	KENDALL	267	102
FED. ROAD DIST. NO. 1		ILLINOIS	FED. AID PROJECT	
		SHEET 6 OF 22		



Reinforcement Bars designated (E) shall be epoxy coated.

**** This work shall be done according to Section 584 of the Standard Specifications. The grout and method of application shall be approved by the Engineer.**



MTA INCORPORATED

DESIGNED: J.K.J. CHECKED: B.G.H.
DRAWN: J.P.H. DATE: June, 1998

USER NAME = mohammad.hamwi	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 0.18686633' / in.	CHECKED -	REVISED -
PLOT DATE = 5/15/2025	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

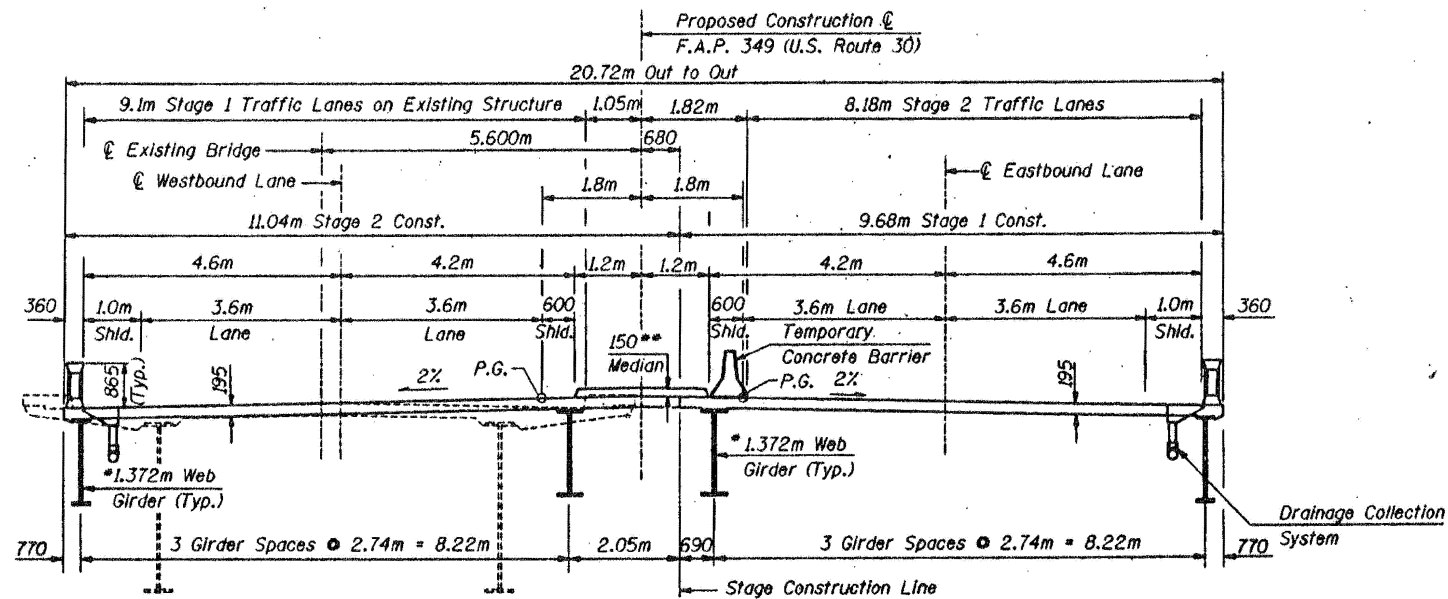
EXISTING STRUCTURAL PLANS (SN 047-0030)

SCALE:	SHEET	OF 62 SHEETS	STA.	TO STA.
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F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2024-1008-BDS	VARIOUS	80	71
		CONTRACT NO. 62X45		
		ILLINOIS FED. AID PROJECT		

MODEL: 42B-LOCATION 42B (SN 047-0030)
FILE NAME: c:\pw work\pwwid\thamwim\d1103949\D103025-sht-schedule.dgn

RTE. NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
U.S. 30	IIB-BY	KENDALL	267	122
FED. ROAD DIST. NO. 7		ILLINOIS FED. AID PROJECT		
SHEET 4 OF 57				



CROSS SECTION

U.S. Route 30 over the Fox River
(Looking East)

NOTE: See Roadway Plans for Quantity of Temporary Concrete Barrier.

For Details of Temporary Concrete Barrier See Sheet 54 of 57.

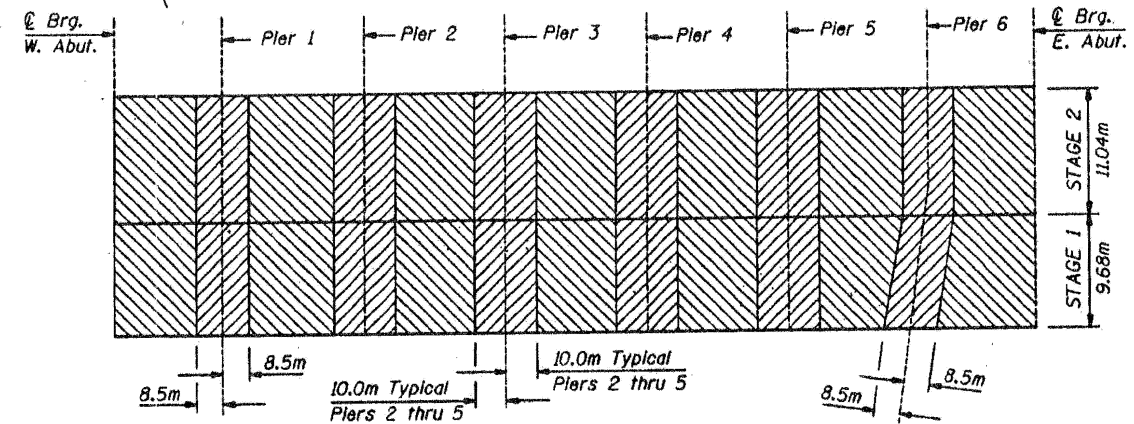
SEQUENCE OF CONSTRUCTION

Stage One - Construct Bridge Widening and Bike Path

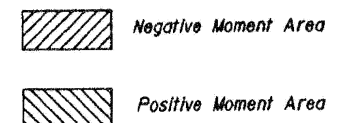
- Construct temporary access road in Fox River, south of the existing bridge, extending from the west bank to the island.
- Construct cofferdams at pier extensions for Piers 2, 3, 4 and 5. Excavate at piers and set footings into bedrock. Construct pier footings, and crashwalls and remove cofferdams.
- Drive steel H-Piles at abutments and construct abutment extensions.
- Complete pier extensions by constructing columns and Stage One pier caps.
- Using cranes on the temporary access road, erect steel plate girders for the U.S. 30 highway superstructure and the bike path superstructure.
- Form and construct the reinforced concrete deck on the U.S. 30 highway superstructure and the bike path superstructure.
- Completely remove the temporary access road from the Fox River.

Stage Two - Remove and Replace Existing U.S. 30 Superstructure and Complete Bike Path

- Shift traffic from existing structure onto new half of bridge.
- Construct temporary access road in Fox River, north of the existing Bridge, extending from the west bank to the island.
- Remove existing concrete deck.
- Using cranes on the access road, remove existing steel plate girders.
- Construct Stage Two portions of pier caps and abutments.
- Using cranes on temporary access road, erect new steel plate girders for the west bound U.S. 30 highway superstructure.
- Completely remove the temporary access road from the Fox River.
- Construct the new bike path at the east bank of the Fox River.
- Complete the grading rip rap and bike path at the west bank of the Fox River.



DECK POURING SEQUENCE



DECK POURING NOTES

- The Contractor shall pour all positive moment areas, within each construction stage, consecutively within one 12 hour period.
- When the deck pour is stopped for the day at one or more of the transverse Bonded Construction Joints in the deck Pouring Sequence as shown, the next pour shall not be made until both of the following requirements are met:
 - At least 72 hours shall have elapsed from the end of the previous pour.
 - The concrete strength shall have attained a minimum modulus of rupture of 4.5 MPa or a minimum compressive strength of 24 MPa.

* For location and details of Temporary Access Road
See U.S. Route 30 Grading Plan and Special Provisions.

FOR INFORMATION ONLY

STAGE CONSTRUCTION
U.S. RTE. 30 OVER FOX RIVER
F.A.P. RTE. 349 SECTION IIB-BY
STA. 0+340.756 (U.S. RTE.30)
KENDALL COUNTY
STR.NO. 047-0031

MTA INCORPORATED
DESIGNED: G.B.M. CHECKED: B.G.H.
DRAWN: J.P.H. DATE: June, 1998

USER NAME = mohammad.hamwi	DESIGNED -	REVISED -
DRAWN -	REVISED -	
PLOT SCALE = 0.16666633' / in.	CHECKED -	REVISED -
PLOT DATE = 5/15/2025	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING STRUCTURAL PLANS (SN 047-0031)

SCALE: SHEET OF 62 SHEETS STA. TO STA.

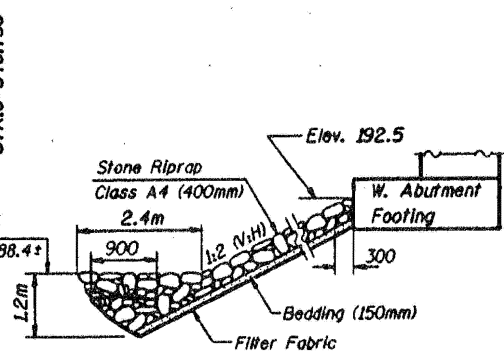
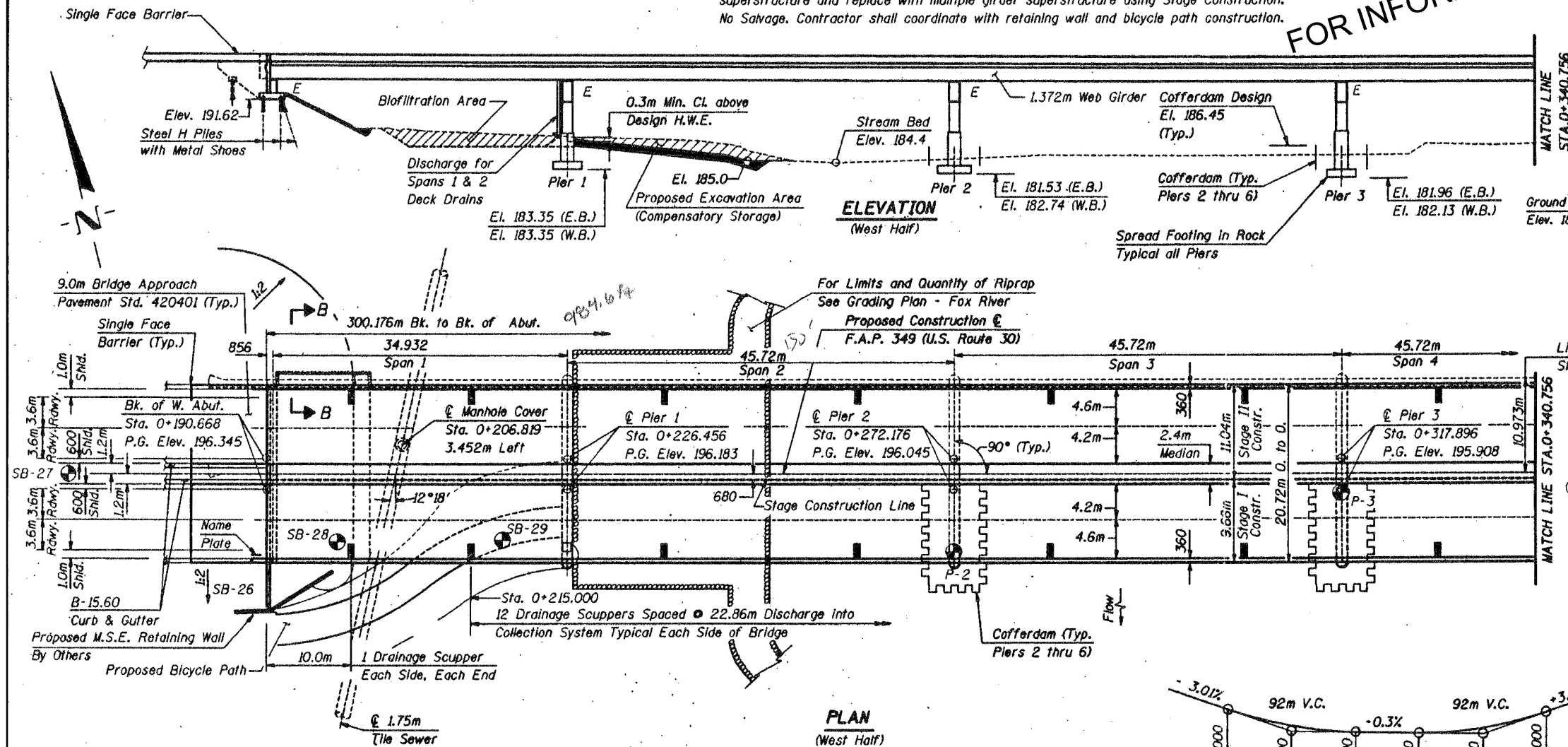
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2024-1008-BDS	VARIOUS	80	72
		CONTRACT NO. 62X45		

B.M. 12: Chiseled Square on lip at bottom of S.W. Wingwall of Rte. 30 Bridge over Fox River. Elev. 196.459

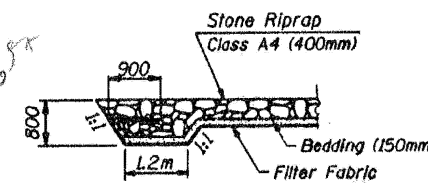
EXISTING STRUCTURE: S.N. 047-0031, Built in 1957 as FA Rte. 192, Section 11 B, Kendall County. Superstructure consists of 7 spans with R.C. deck on 2 steel deck riveted plate girders with floor beams. Spans are continuous with a hinge in span 4. Substructure consists of R.C. piers on spread footings and R.C. Abutments on steel piles. Total Length = 300.176m Bk. to Bk. Width = 10.973m Out to Out. Contractor shall widen and rebuild substructure and remove superstructure and replace with multiple girder superstructure using Stage Construction. No Salvage. Contractor shall coordinate with retaining wall and bicycle path construction.

FOR INFORMATION ONLY

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
U.S. 30	11B-BY	KENDALL	267	119
FED. ROAD DIST. NO. 7		ILLINOIS FED. AID PROJECT		
		SHEET 1 OF 57		



STONE RIPRAP ANCHOR DETAIL (West Abutment)



SECTION B-B

WATERWAY INFORMATION

Drainage Area = 4416 km ²		Low Grade Elev. 195.377 m				Sta. 0+460			
Flood	Freq. Yr.	Q cms	Opening Sq. m		Nat. H.W.E. m	Head - m		Headwater Elev. - m	
			Exist.	Prop.		Exist.	Prop.	Exist.	Prop.
Design	50	362.2	344.2	344.2	186.99	0.04	0.04	187.02	187.02
Base	100	406.9	386.1	386.1	187.17	0.03	0.03	187.19	187.20
Overtopping									
Max. Calc.	500	529.4	485.9	485.9	187.57	0.02	0.02	187.58	187.58
Floodway Data	10	242.7	244.5	244.5	186.52	0.06	0.06	186.58	186.58

DESIGN STRESSES

NEW CONSTRUCTION		EXISTING SUBSTRUCTURE	
f _c = 24 MPa		f _c = 10 MPa All Except Walls	
f _y = 400 MPa (Reinf.)		f _c = 6 MPa Walls	
f _y = 345 MPa (Struct.) (M270M Grade 345)		f _s = 140 MPa (Reinf.)	
f _y = 250 MPa (Struct.) (M270M Grade 250)			
Allowable Bearing Pressure = 1800 kPa			

DESIGN SPECIFICATIONS

1996 AASHTO Standard Specifications for Highway Bridges.

LOADING MS 18

Allow 1.2 kN/m² for Future Wearing Surface

SEISMIC DATA

S.P.C. = A
A = 0.04
S = 1.0

STATION 0+340.756
REBUILT 199 BY
STATE OF ILLINOIS
F.A.P. RTE. 349 SEC. 11B-BY
PROJ. ACNHF-BHF-349(4)
LOADING MS18
STR. NO. 047-0031

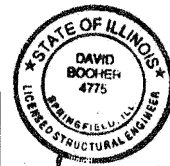
NAME PLATE

See Std. 515001

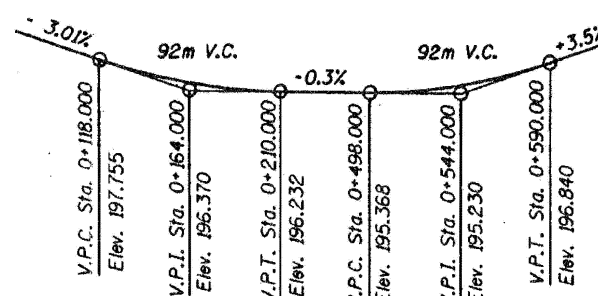
The existing Name Plate shall be cleaned and relocated adjacent to the new Name Plate. Cost Included with "Name Plates"

APPROVED
FOR STRUCTURAL ADEQUACY ONLY

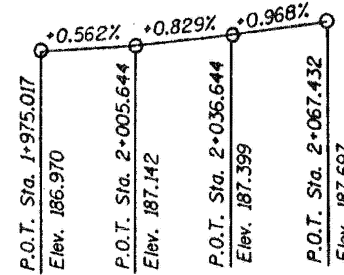
Ralph E. Anderson
Engineer of Bridges and Structures



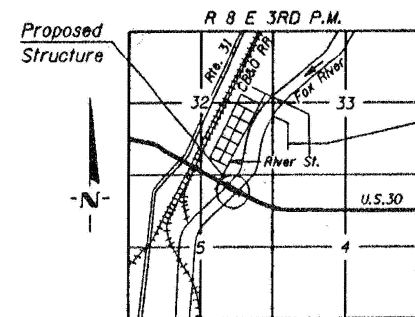
David Booher, Illinois S.E. 081-004775 Date 8-10-98
Expires 11-30-98



PROFILE GRADE
U.S. 30



PROFILE GRADE
ILL. 25



LOCATION SKETCH

GENERAL PLAN
U.S. RTE. 30 OVER
FOX RIVER-PUBLIC WATERS
F.A.P. RTE. 349 SECTION 11B-BY
STA. 0+340.756 (U.S. RTE.30)
KENDALL COUNTY
STR. NO. 047-0031

MTA INCORPORATED

DESIGNED: G.B.M. CHECKED: B.G.H.
DRAWN: J.P.H. DATE: June, 1998

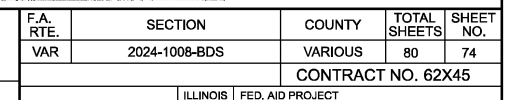
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING STRUCTURAL PLANS (SN 047-0031)

SCALE: SHEET OF 62 SHEETS STA. TO STA.

ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
U.S. 30	2024-1008-BDS	VARIOUS	80	73
		CONTRACT NO. 62X45		
		ILLINOIS FED. AID PROJECT		

RTE. NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
U.S. 30	11B-BY	KENDALL	267	120
FED. ROAD DIST. NO. 7		ILLINOIS	FED. AID PROJECT	
		SHEET 2 OF 57		



MODEL: 43C-LOCATION 43C (SN 047-0031)
FILE NAME: c:\nw work\widof\harm\im\d1103949\ID103025-shi-schedule.dan

Benchmark: Arrow head bolt on fire hydrant west of driveway to Waterplant on north side of structure. Hydrant is located ±830' west of the C of Structure. Elevation 671.46.

Existing Structure: S.N. 047-0032 built in 1958 as FA Route 192 Section 11-B-1. The structure consists of a single span 36" WF Beams and a 7" Reinforced Concrete deck supported on closed reinforced concrete high wall abutment on steel H Piles. Structure measures 61'-9 1/8" bk to bk abutments and 36'-4" out-to-out. Existing Structure is to be removed. Traffic to be maintained using stage construction.

No Salvage.

FOR INFORMATION ONLY

GENERAL NOTES

Reinforcement bars shall conform to the requirements of ASTM A 706 Gr 60.
Reinforcement bars designated (E) shall be epoxy coated.
The existing structural steel coating contains lead. The Contractor shall take appropriate precautions to deal with the presence of lead on this project.
Layout of slope protection system may be varied to suit ground conditions in the field as directed by the Engineer.
The embankment configuration shown shall be the minimum that must be placed and compacted prior to construction of the abutments.
Slip forming of the parapets is not allowed.

INDEX OF SHEETS

- 1 General Plan and Elevation
- 2 Total Bill of Materials and General Details
- 3 Temporary Concrete Barrier For Stage Construction
- 4-6 Top of Slab Elevations
- 7 Top of West Approach Slab Elevation
- 8 Top of East Approach Slab Elevation
- 9 Superstructure
- 10-11 Superstructure Details
- 12 Diaphragm Details
- 13-14 Bridge Approach Slab Details
- 15 Aluminum Railing, Type L
- 16 Bicycle Railing
- 17 Drainage Scupper, DS-12
- 18 Framing Plan
- 19 48" PPC I-Beam
- 20 48" PPC I-Beam Details
- 21 West Abutment Details
- 22 East Abutment Details
- 23 HP Pile Details
- 24 Bar Splicer and Mechanical Assembly Details
- 25-27 Soil Boring Logs

LOADING HL-93

Allow 50#/sq. ft. for future wearing surface.

DESIGN SPECIFICATIONS

2010 AASHTO LRFD Bridge Design Specifications with 2010 Interims

DESIGN STRESSES

FIELD UNITS

$f'_c = 3,500$ psi
 $f_y = 60,000$ psi (Reinforcement)

PRECAST PRESTRESSED UNITS

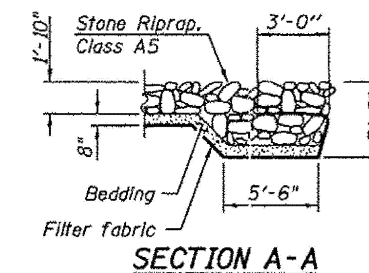
$f'_c = 7,000$ psi
 $f'_{ci} = 6,000$ psi
 $f_{pu} = 270,000$ psi (1/2" low lax strands)
 $f_{pbt} = 201,960$ psi (1/2" low lax strands)

SEISMIC DATA

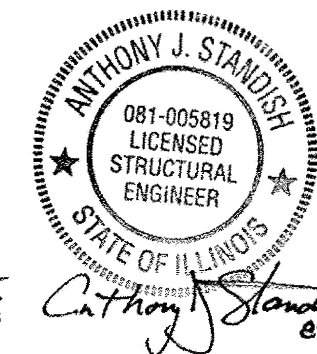
Seismic Performance Zone (SPZ) = 1
Design Spectral Acceleration at 1.0 sec. (S_{D1}) = 0.065
Design Spectral Acceleration at 0.2 sec. (S_{D5}) = 1.24
Soil Site Class = C

CURVE DATA

$\Delta = 25^\circ 52' 43''$
 $D = 0^\circ 45' 00''$
 $T = 1,755.28$
 $L = 3,450.67$
 $E = 199.05'$
 $R = 7,639.86$
 $S.E. = \text{None}$
 $P.C. = \text{Sta. } 394+99.55$
 $P.T. = \text{Sta. } 429+50.23$
 $P.I. = \text{Sta. } 412+54.83$



SECTION A-A

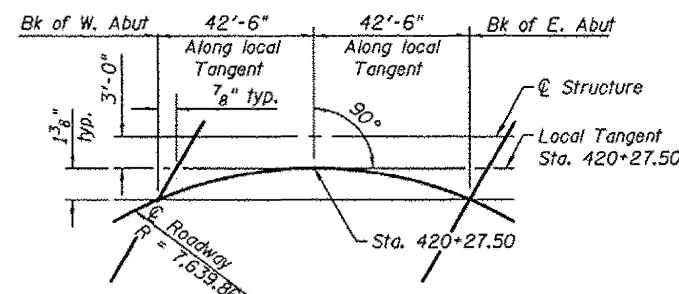


exp. 11/2012

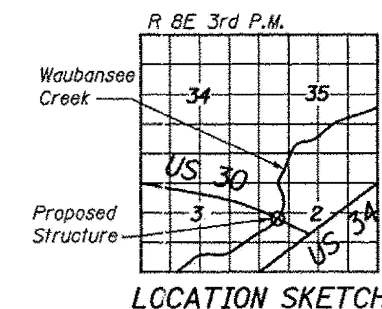
APPROVED
For Structural Adequacy Only

Engineer of Bridges & Structures

Proposed Settlement
Monitoring Location
(See Special Provision)



OFFSET SKETCH



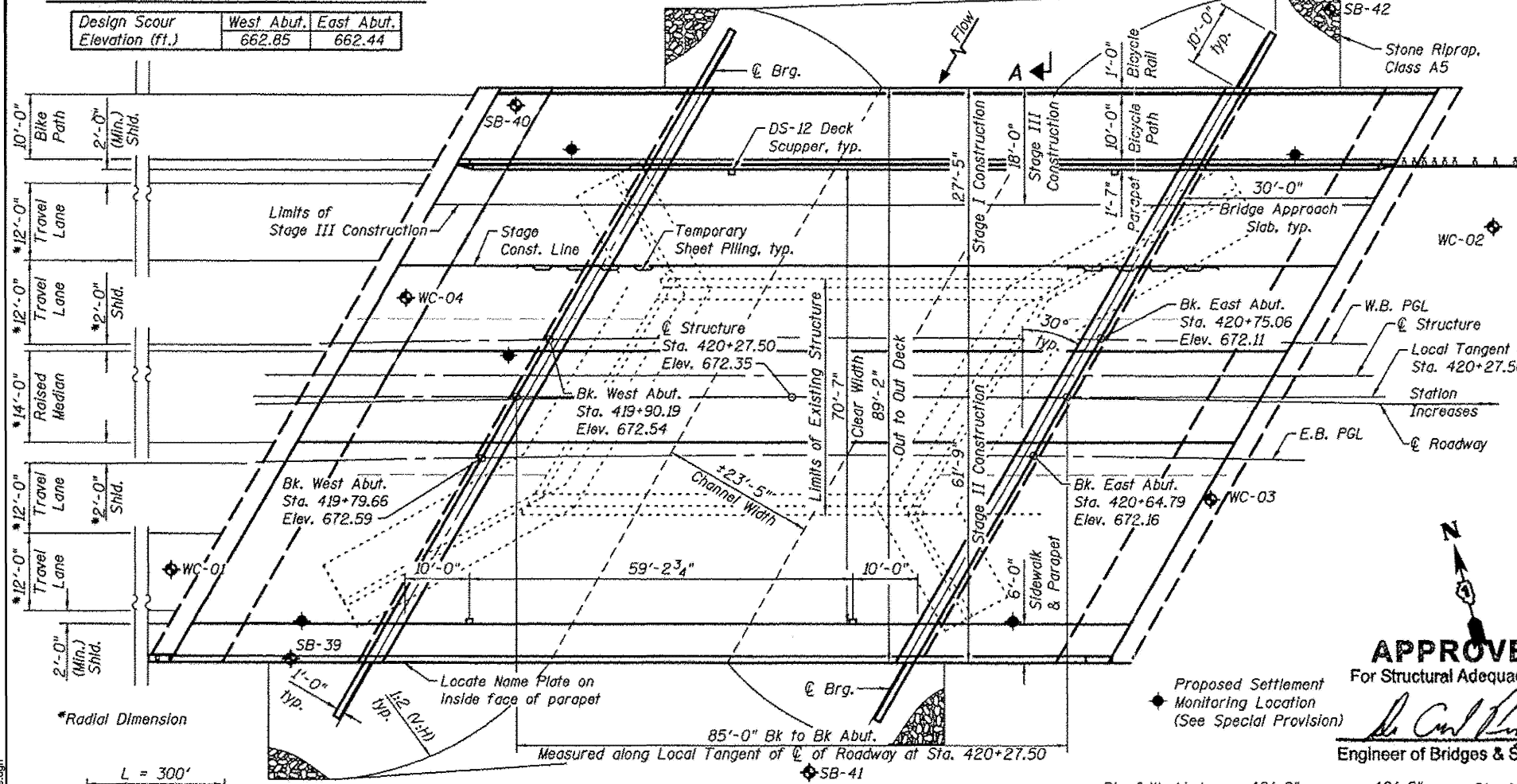
LOCATION SKETCH

NAME PLATE
See Std. 515001

GENERAL PLAN & ELEVATION
F.A.P. 349 (US 30) OVER
WAUBANSEE CREEK
SECTION 11 WRS-3
KENDALL COUNTY
STA. 420+27.50
S.N. 047-0301

DESIGN SCOUR ELEVATION TABLE

Design Scour Elevation (ft.)	West Abut.	East Abut.
	662.85	662.44



PLAN

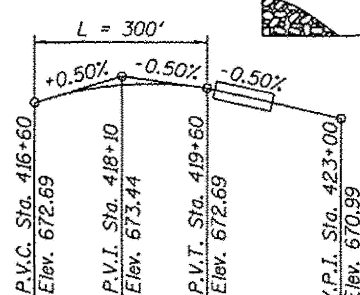
WATERWAY INFORMATION

Drainage Area = 18.7 square miles Prop. Overtopping Elev. 668.96 @ Sta. 430+08									
Flood	Freq. Yr.	Q C.F.S.	Opening Sq. Ft. Exist.	Prop.	Nat. H.W.E. Exist.	Prop.	Head - Ft. Exist.	Prop.	Headwater El. Exist.
Design	10	774	357.66	376.45	663.23	0.00	0.00	0.00	663.23
Base	50	1170	407.46	445.22	664.34	0.02	0.00	0.00	664.36
Max. Calc.	100	1447	429.28	477.95	664.82	0.06	0.04	0.04	664.88
	500	2941	467.60	583.33	666.38	0.70	0.45	0.45	667.08

10-year velocity through existing bridge = 2.16 fps 10 year velocity through proposed bridge = 2.06 fps.

PROFILE GRADE

(F.A.P. 349 along East and West Bound PGL)

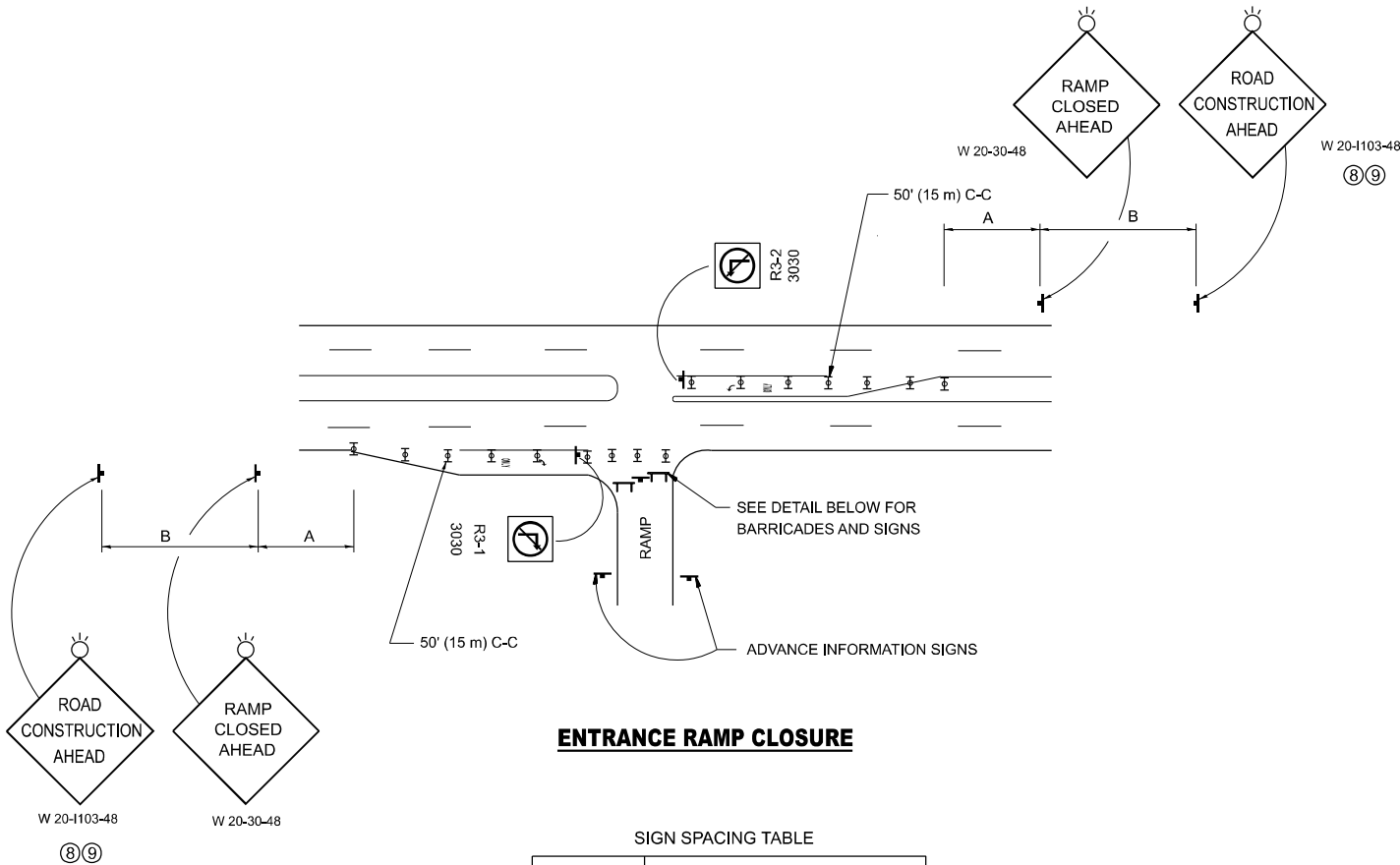


STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING STRUCTURAL PLANS (SN 047-0301)

SCALE: SHEET OF 62 SHEETS STA. TO STA.

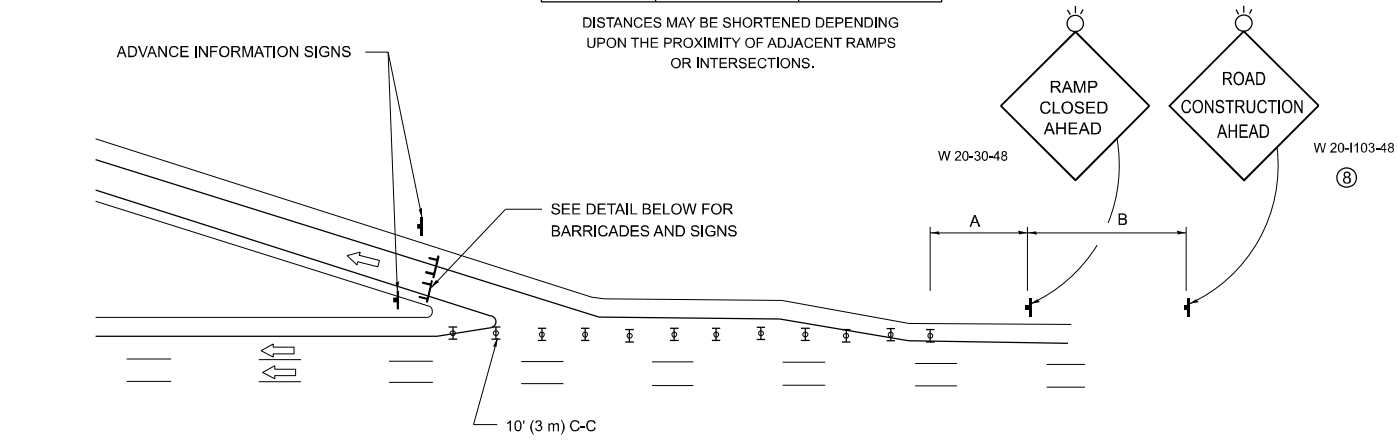
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2024-1008-BDS	VARIOUS	80	75
CONTRACT NO. 62X45				
ILLINOIS FED. AID PROJECT				



ENTRANCE RAMP CLOSURE

FACILITY	DISTANCE BETWEEN SIGNS	
	A	B
EXPRESSWAY >24 HOURS	1000' (300 m)	1500' (450 m)
EXPRESSWAY ≤24 HOURS	500' (150 m)	500' (150 m)
ARTERIAL 55 MPH	500' (150 m)	500' (150 m)
ARTERIAL 50-45 MPH	350' (100 m)	350' (100 m)
ARTERIAL <45 MPH	200' (60 m)	200' (60 m)

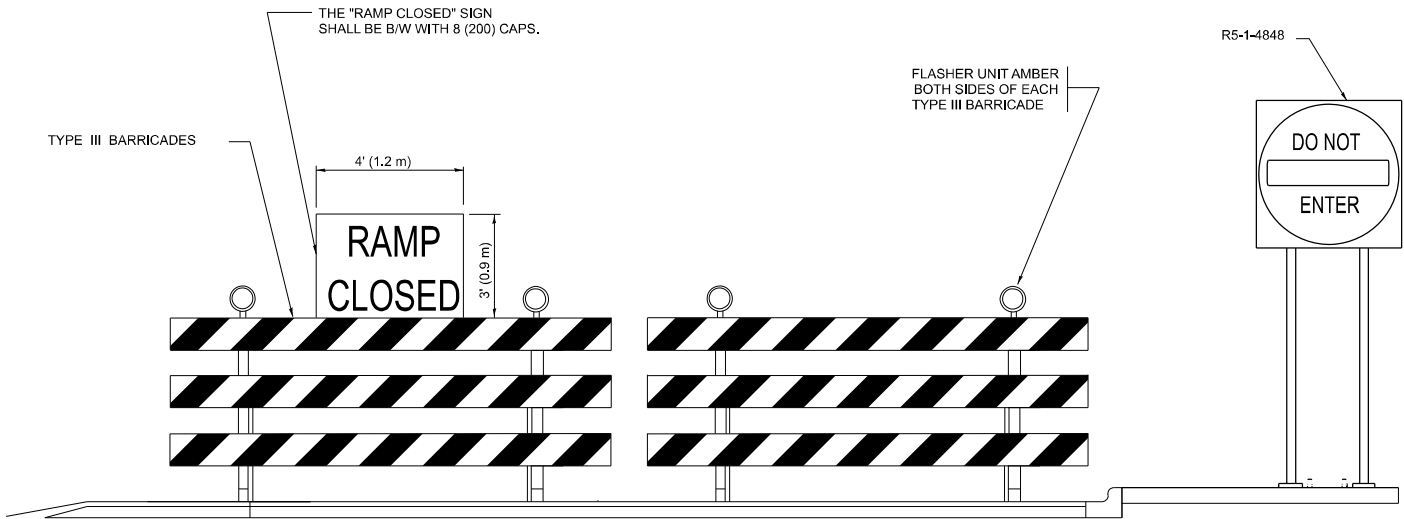
DISTANCES MAY BE SHORTENED DEPENDING UPON THE PROXIMITY OF ADJACENT RAMPS OR INTERSECTIONS.



EXIT RAMP CLOSURE

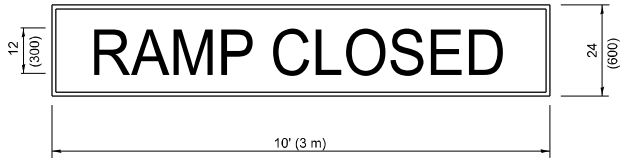
SYMBOLS

- TYPE II BARRICADE OR DRUM
- TYPE III BARRICADE WITH 2 FLASHING LIGHTS



DETAIL FOR REQUIRED BARRICADES & SIGNS

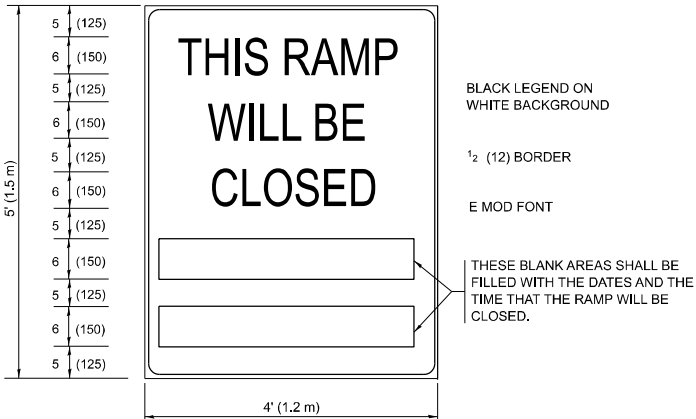
RAMP CLOSURE ADVANCE WARNING SIGN



BLACK LEGEND ON ORANGE BACKGROUND MOUNTED DIAGONALLY E MOD FONT 1 (25) BORDER

THESE SIGNS ARE REQUIRED ON ALL THE EXIT GUIDE SIGNS FOR EXIT RAMPS THAT WILL BE CLOSED FOR MORE THAN FOUR (4) CONSECUTIVE DAYS.

RAMP CLOSURE ADVANCE INFORMATION SIGN



THESE SIGNS ARE REQUIRED ON BOTH SIDES OF THE RAMP, MINIMUM OF 1 WEEK IN ADVANCE OF THE CLOSURE.

THESE SIGNS SHALL BE FABRICATED AND PAID FOR ACCORDING TO THE TEMPORARY INFORMATION SIGNING SPECIAL PROVISION

GENERAL NOTES:

- CONES MAY BE SUBSTITUTED FOR DRUMS OR TYPE II BARRICADES DURING DAY OPERATIONS. CONES SHALL BE A MINIMUM OF 28 (700) HIGH.
- VERTICAL BARRICADES SHALL NOT BE USED FOR RAMP CLOSURES.
- A FLAGGER SHALL BE POSITIONED AT EACH CLOSED RAMP THAT IS OPEN TO CONSTRUCTION VEHICLES, PRECEDED BY A W20-7 FLAGGER WARNING SIGN.
- ALL ROUTE MARKERS AND TRAILBLAZER ASSEMBLIES WHICH DIRECT MOTORISTS TO A CLOSED ENTRANCE RAMP SHALL BE COVERED WHEN THE RAMP IS CLOSED FOR MORE THAN FOUR (4) DAYS.
- THE SIGNING AND BARRICADING WHICH IS REQUIRED BY THIS DETAIL SHALL BE INCLUDED IN THE COST OF TRAFFIC CONTROL AND PROTECTION (EXPRESSWAYS).
- AUTHORIZATION FROM THE DISTRICT'S BUREAU OF TRAFFIC IS REQUIRED FOR ALL RAMP CLOSURES.
- THE RAMP CLOSURE ADVANCE INFORMATION SIGNS SHALL BE ERECTED IF THE CLOSURE TIME EXCEEDS TWENTY-FOUR (24) HOURS. ADDITIONAL ADVANCE WARNING SIGNS ON EXIT GUIDE SIGNING WILL BE REQUIRED FOR EXIT RAMP CLOSURES THAT EXCEED FOUR (4) DAYS IN LENGTH
- ROAD CONSTRUCTION AHEAD SIGNS MAY BE OMITTED WHEN THIS DETAIL IS USED IN CONJUNCTION WITH OTHER TRAFFIC CONTROL THAT ALREADY INCLUDES A ROAD CONSTRUCTION AHEAD SIGN.
- ARTERIAL ROAD CONSTRUCTION AHEAD SIGNS SHALL BE INSTALLED ON THE LEFT SIDE OF TRAFFIC IF THE MEDIAN IS MORE THAN 10 FT WIDE.

ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN.

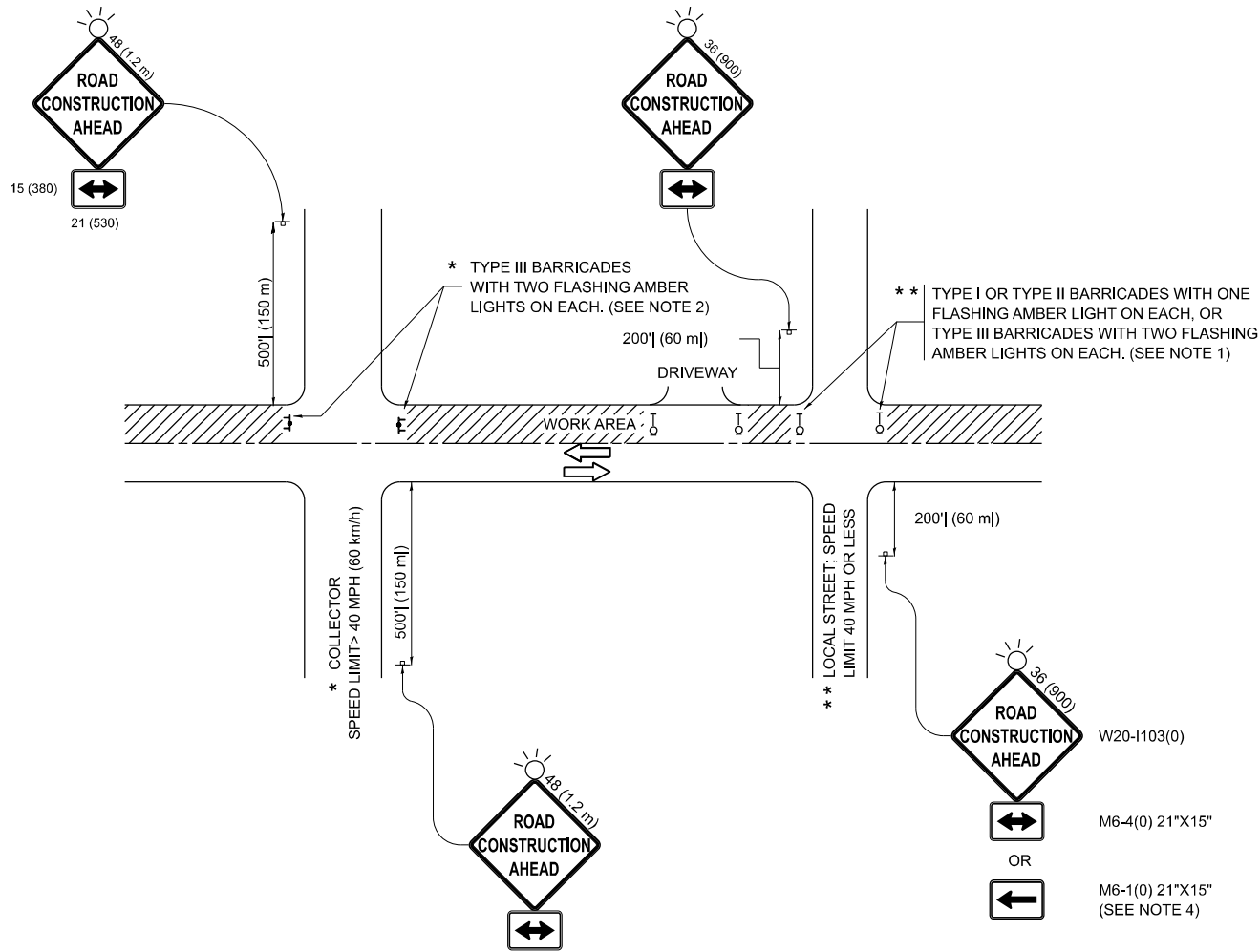
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ENTRANCE AND EXIT_RAMP
CLOSURE DETAILS

SCALE: NONE SHEET #001 OF 4 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2024-1008-BDS	VARIOUS	80	77
TC-08		CONTRACT NO. 62X45		
ILLINOIS		FED. AID PROJECT		

MODEL: TC-10
FILE NAME: c:\p\work\p\work\hamwi\md1103949\D103025-sh-DiaSids.dgn



NOTES:

- SIDE ROAD WITH A SPEED LIMIT OF 40 MPH (60 km/h) OR LESS AS SHOWN ON THE DRAWING AND AS DIRECTED BY THE ENGINEER:
 - ONE "ROAD CONSTRUCTION AHEAD" SIGN 36 x 36 (900x900) WITH A FLASHER MOUNTED ON IT APPROXIMATELY 200' (60 m) IN ADVANCE OF THE MAIN ROUTE.
 - THE CLOSED PORTION OF THE MAIN ROUTE SHALL BE PROTECTED BY BLOCKING WITH TYPE I, TYPE II OR TYPE III BARRICADES, 1/3 OF THE CROSS SECTION OF THE CLOSED PORTION.
- SIDE ROAD WITH A SPEED LIMIT GREATER THAN 40 MPH (60 km/h) AS SHOWN ON THE DRAWING AND AS DIRECTED BY THE ENGINEER:
 - ONE "ROAD CONSTRUCTION AHEAD" SIGN 48 x 48 (1.2 m x 1.2 m) WITH A FLASHER MOUNTED ON IT APPROXIMATELY 500' (150 m) IN ADVANCE OF THE MAIN ROUTE.
 - THE CLOSED PORTION OF THE MAIN ROUTE SHALL BE PROTECTED BY BLOCKING WITH TYPE III BARRICADES, 1/2 OF THE CROSS SECTION OF THE CLOSED PORTION.
- CONES MAY BE SUBSTITUTED FOR BARRICADES OR DRUMS AT HALF THE SPACING DURING DAY OPERATIONS. CONES SHALL BE A MINIMUM OF 28 (710) IN HEIGHT.
- WHEN THE SIDE ROAD LIES BETWEEN THE BEGINNING OF THE MAINLINE SIGNING AND THE WORK ZONE, A SINGLE HEADED ARROW (M6-1) SHALL BE USED IN LIEU OF THE DOUBLE HEADED ARROW (M6-4).
- WHEN WORK IS BEING PERFORMED ON A SIDE ROAD OR DRIVEWAY, FOLLOW THE APPLICABLE STANDARD(S). THE DIRECTIONAL ARROW (M6-1 OR M6-4) SHALL BE COVERED OR REMOVED WHEN NO LONGER CONSISTENT WITH THE TRAFFIC CONTROL SET-UP.
- ADVANCE WARNING SIGNS ARE TO BE OMITTED ON DRIVEWAYS UNLESS OTHERWISE SPECIFIED IN THE PLANS OR BY THE ENGINEER.
- THE TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS SHALL BE INCLUDED IN THE COST OF SPECIFIED TRAFFIC CONTROL STANDARDS OR ITEMS.

All dimensions are in inches (millimeters)
unless otherwise shown.

USER NAME	= mohammad.hamwi	DESIGNED	- L.H.A.	REVISED	- T. RAMMACHER 01-06-00
		DRAWN	-	REVISED	- A. SCHUETZE 07-01-13
		CHECKED	-	REVISED	- A. SCHUETZE 09-15-06
PLOT DATE	= 5/15/2025	DATE	- 06-89	REVISED	- D. SENDERAK 05-03-24

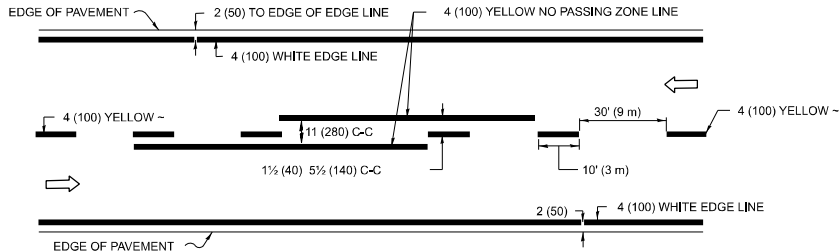
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL AND PROTECTION FOR
SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS

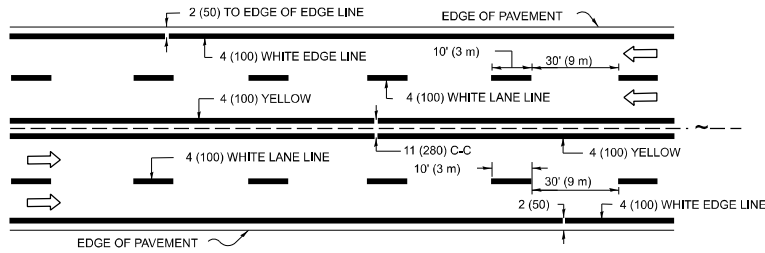
SCALE: SHEET A002 OF 4 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2024-1008-BDS	VARIOUS	80	78
TC-10		CONTRACT NO. 62X45		
ILLINOIS		FED. AID PROJECT		

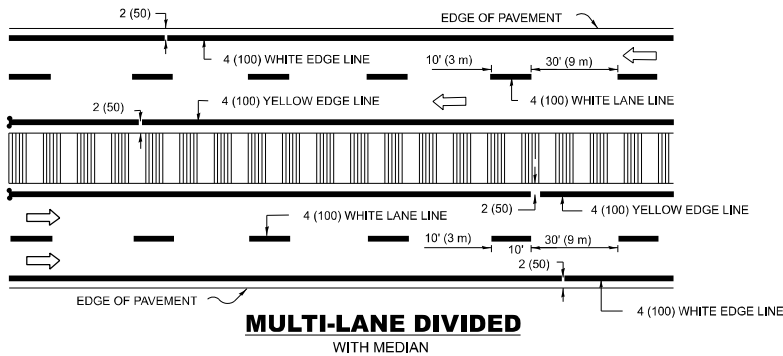
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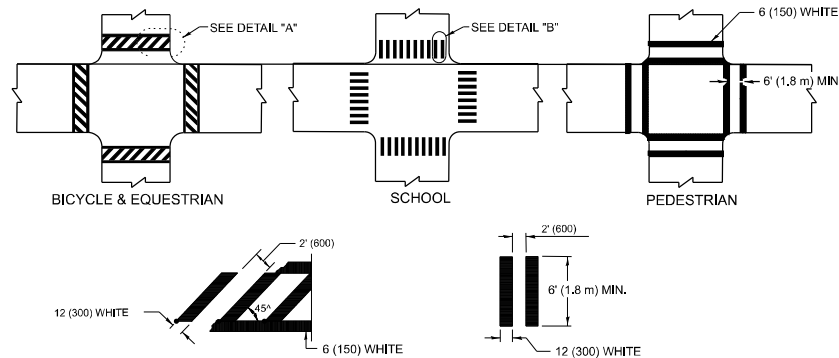
2-LANE ROADWAY



MULTI-LANE UNDIVIDED



TYPICAL LANE AND EDGE LINE MARKING

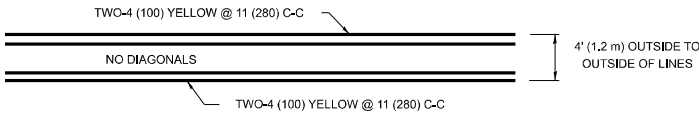


DETAIL "A"

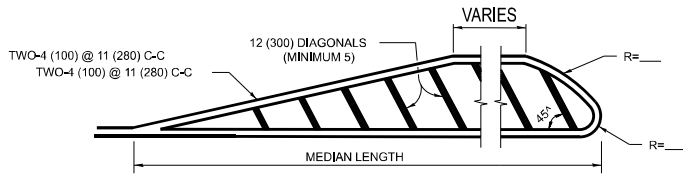
DETAIL "B"

TYPICAL CROSSWALK MARKING

* MARKINGS SHALL BE INSTALLED PARALLEL TO THE CENTERLINE OF THE ROAD WHICH IT CROSSES

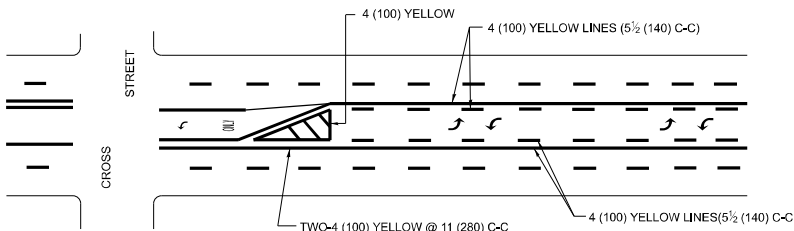


4' (1.2 m) WIDE MEDIANS ONLY

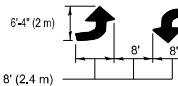


DIAGONAL LINE SPACING: 50' (15 m) C-C (LESS THAN 30MPH (50 km/h))
75' (25 m) C-C 30MPH (50 km/h) TO 45MPH (70 km/h)
150' (45 m) C-C (MORE THAN 45MPH (70 km/h))

MEDIANS OVER 4' (1.2 m) WIDE

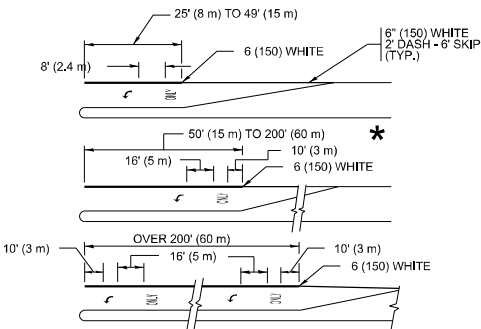


A MINIMUM OF TWO PAIRS OF TURN ARROWS SHALL BE USED, WHITE IN COLOR. ADDITIONAL PAIRS SHALL BE PLACED AT 200' (60 m) TO 300' (90 m) INTERVALS.



MEDIAN WITH TWO-WAY LEFT TURN LANE

TYPICAL PAINTED MEDIAN MARKING

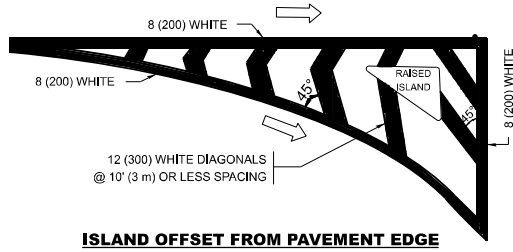


FULL SIZE LETTERS 8' (2.4 m) AND ARROWS SHALL BE USED.
AREA = 15.6 SQ. FT. (1.5 m²) ONLY AREA = 20.8 SQ. FT. (1.9 m²)

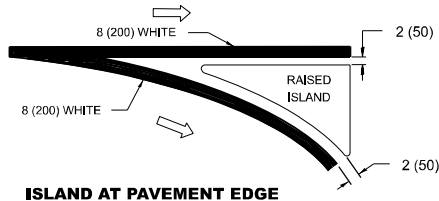
* TURN LANES IN EXCESS OF 400' (120 m) IN LENGTH MAY HAVE AN ADDITIONAL SET OF ARROW - "ONLY" INSTALLED MIDWAY BETWEEN THE OTHER TWO SETS OF ARROW - "ONLY".

TYPICAL LEFT (OR RIGHT) TURN LANE

TYPICAL TURN LANE MARKING

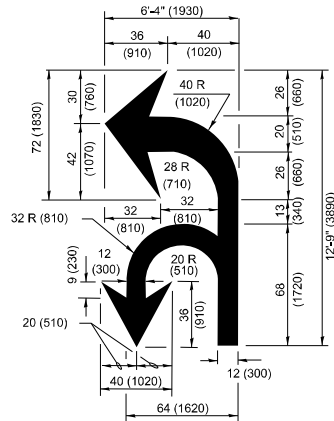


ISLAND OFFSET FROM PAVEMENT EDGE

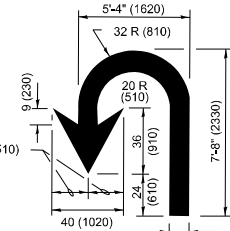


ISLAND AT PAVEMENT EDGE

TYPICAL ISLAND MARKING



COMBINATION LEFT AND U-TURN



U-TURN

LANE REDUCTION TRANSITION

* LANE REDUCTION ARROWS REQUIRED AT SPEEDS OF 45 MPH OR GREATER OR WHEN SPECIFIED IN PLANS.

TYPE OF MARKING	WIDTH OF LINE	PATTERN	COLOR	SPACING / REMARKS
CENTERLINE ON 2 LANE PAVEMENT	4 (100)	SKIP-DASH	YELLOW	10' (3 m) LINE WITH 30' (9 m) SPACE
CENTERLINE ON MULTI-LANE UNDIVIDED PAVEMENT	2 @ 4 (100)	SOLID	YELLOW	11 (280) C-C
NO PASSING ZONE LINES: FOR ONE DIRECTION FOR BOTH DIRECTIONS	4 (100) 2 @ 4 (100)	SOLID SOLID	YELLOW YELLOW	5 1/2 (140) C-C FROM SKIP-DASH CENTERLINE 11 (280) C-C OMIT SKIP-DASH CENTERLINE BETWEEN
LANE LINES	4 (100) 5 (125) ON FREEWAYS	SKIP-DASH SKIP-DASH	WHITE WHITE	10' (3 m) LINE WITH 30' (9 m) SPACE
DOTTED LINES (EXTENSIONS OF CENTER, LANE OR TURN LANE MARKINGS)	SAME AS LINE BEING EXTENDED	SKIP-DASH	SAME AS LINE BEING EXTENDED	2' (600) LINE WITH 6' (1.8 m) SPACE
EDGE LINES	4 (100)	SOLID	YELLOW-LEFT WHITE-RIGHT	OUTLINE MEDIANS IN YELLOW
TURN LANE MARKINGS	6 (150) LINE-FULL SIZE LETTERS & SYMBOLS (8' (2.4m))	SOLID	WHITE	SEE TYPICAL TURN LANE MARKING DETAIL
TWO WAY LEFT TURN MARKING	2 @ 4 (100) EACH DIRECTION 8' (2.4m) LEFT ARROW	SKIP-DASH AND SOLID IN PAIRS	YELLOW WHITE	10' (3 m) LINE WITH 30' (9 m) SPACE FOR SKIP-DASH; 5 1/2 (140) C-C BETWEEN SOLID LINE AND SKIP-DASH LINE SEE TYPICAL TWO-WAY LEFT TURN MARKING DETAIL
CROSSWALK LINES (PEDESTRIAN) A. DIAGONALS (BIKE & EQUESTRIAN) B. LONGITUDINAL BARS (SCHOOL)	2 @ 6 (150) 12 (300) @ 45° 12 (300) @ 90°	SOLID SOLID SOLID	WHITE WHITE WHITE	NOT LESS THAN 6' (1.8 m) APART 2' (600) APART 2' (600) APART SEE TYPICAL CROSSWALK MARKING DETAILS.
STOP LINES	24 (600)	SOLID	WHITE	PLACE 4' (1.2 m) IN ADVANCE OF AND PARALLEL TO CROSSWALK, IF PRESENT. OTHERWISE, PLACE AT DESIRED STOPPING POINT, PARALLEL TO CROSSROAD CENTERLINE, WHERE POSSIBLE
PAINTED MEDIANS	2 @ 4 (100) WITH 12 (300) DIAGONALS @ 45° NO DIAGONALS USED FOR 4' (1.2 m) WIDE MEDIANS	SOLID	YELLOW: TWO WAY TRAFFIC WHITE: ONE WAY TRAFFIC	11 (280) C-C FOR THE DOUBLE LINE SEE TYPICAL PAINTED MEDIAN MARKING.
CORE MARKING AND CHANNELIZING LINES	8 (200) WITH 12 (300) DIAGONALS @ 45°	SOLID	WHITE	DIAGONALS: 15' (4.5 m) C-C (LESS THAN 30MPH (50 km/h)) 20' (6 m) C-C 30MPH (50 km/h) TO 45MPH (70 km/h) 30' (9 m) C-C (OVER 45MPH (70 km/h))
RAILROAD CROSSING	24 (600) TRANSVERSE LINES: "RR" IS 8' (1.8 m) LETTERS: 16 (400) LINE FOR "X"	SOLID	WHITE	SEE STATE STANDARD 780001 AREA OF: *R*=3.6 SQ. FT. (0.33 m ²) EACH *X*=54.0 SQ. FT. (5.0 m ²)
SHOULDER DIAGONALS (REQUIRED FOR SHOULDERS ≥ 8')	12 (300) @ 45°	SOLID	WHITE - RIGHT YELLOW - LEFT	50' (15 m) C-C (LESS THAN 30MPH (50 km/h)) 75' (25 m) C-C (30 MPH (50 km/h) TO 45MPH (70 km/h)) 150' (45 m) C-C (OVER 45MPH (70 km/h))
U TURN ARROW	SEE DETAIL	SOLID	WHITE	16.3 SF
2 ARROW COMBINATION LEFT AND U TURN	SEE DETAIL	SOLID	WHITE	30.4 SF

FOR FURTHER DETAILS ON PAVEMENT MARKING REFER TO STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION AND STATE STANDARD 780001.

All dimensions are in inches (millimeters) unless otherwise shown.

USER NAME = mohammad.hamwi	DESIGNED - EVERS	REVISED - C. JUCIUS 09-09-09
	DRAWN -	REVISED - C. JUCIUS 07-01-13
	CHECKED -	REVISED - C. JUCIUS 12-21-15
PLOT DATE = 5/15/2025	DATE - 03-19-90	REVISED - C. JUCIUS 04-12-16

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DISTRICT ONE
TYPICAL PAVEMENT MARKINGS

SCALE: NONE SHEET #003 OF 4 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2024-1008-BDS	VARIOUS	80	79
TC-13		CONTRACT NO. 62X45		
ILLINOIS		FED. AID PROJECT		

TURN BAY ENTRANCE AT START
OF LANE CLOSURE TAPER

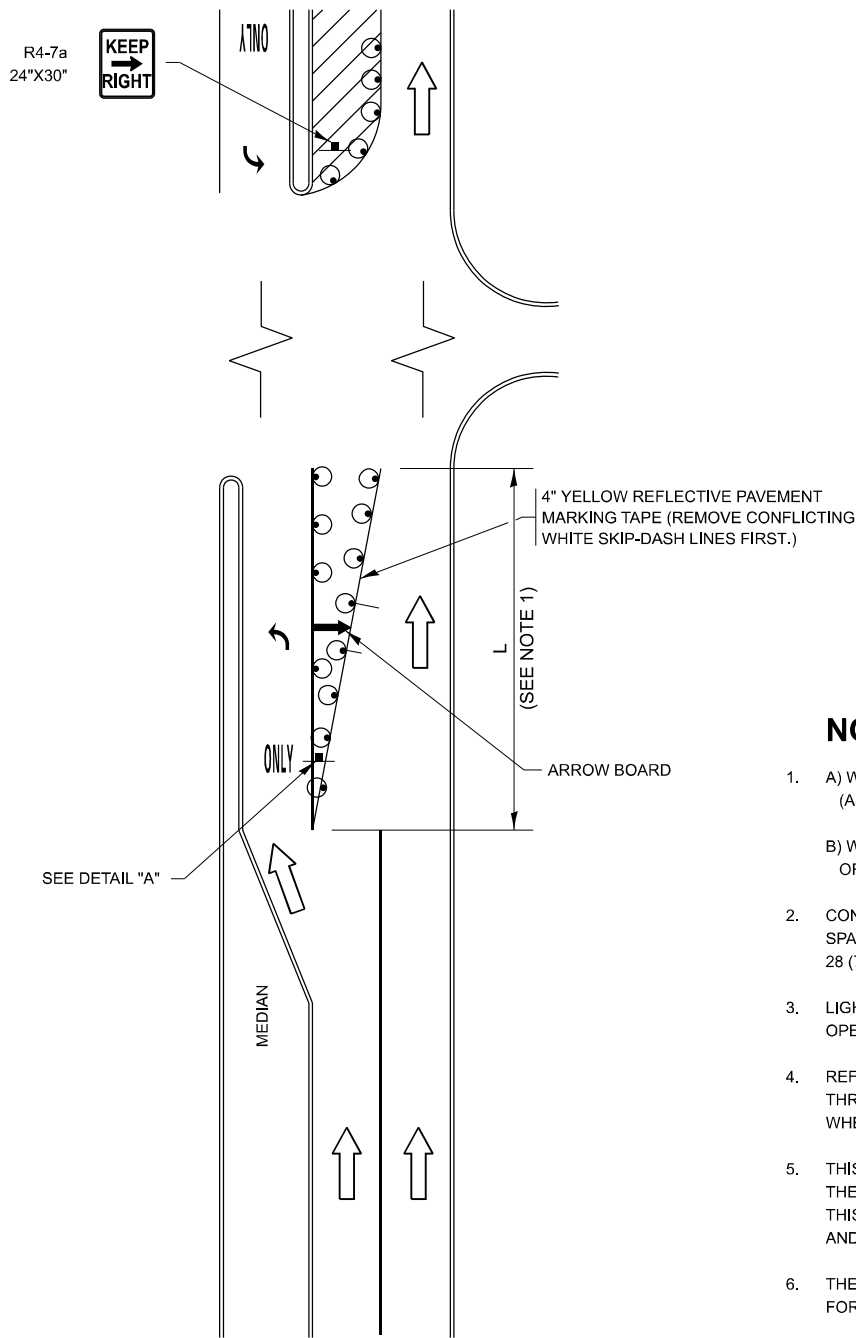
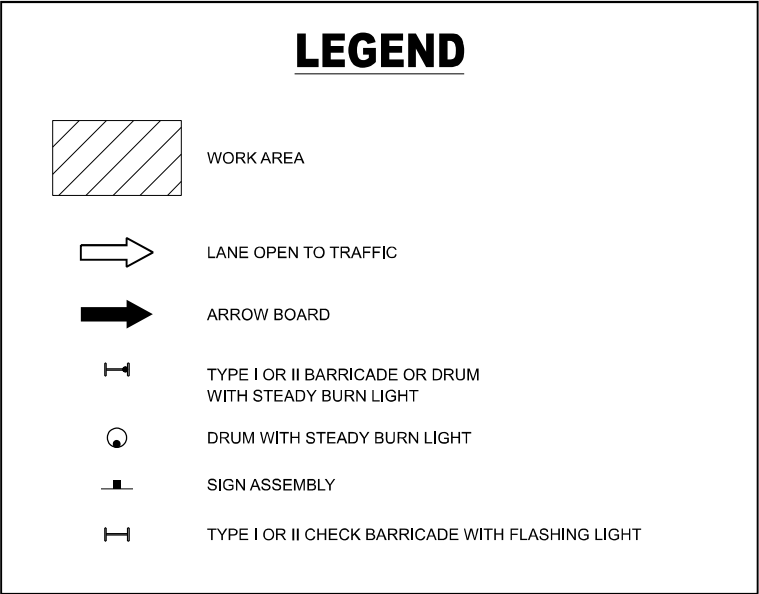


FIGURE 1

LEGEND



NOTES:

- A) WHEN "L" IS $\leq$ THE STORAGE LENGTH OF THE TURN LANE (AS SHOWN IN FIG. 1), USE FIGURE 1.
B) WHEN "L" IS $>$ THE STORAGE LENGTH OF THE TURN LANE OR THE TURN LANE IS WITHIN THE LANE CLOSURE, USE FIGURE 2.
- CONES MAY BE SUBSTITUTED FOR BARRICADES OR DRUMS AT HALF THE SPACING DURING DAY OPERATIONS. CONES SHALL BE A MINIMUM OF 28 (710) IN HEIGHT.
- LIGHTS WILL NOT BE REQUIRED ON BARRICADES OR DRUMS FOR DAY OPERATIONS. ALL LIGHTS SHALL BE MONODIRECTIONAL.
- REFLECTIVE TEMPORARY PAVEMENT MARKINGS SHALL BE PLACED THROUGHOUT THE BARRICADED AREAS OF EACH TURN BAY AS SHOWN WHERE THE CLOSURE TIME IS GREATER THAN FOURTEEN (14) DAYS.
- THIS APPLICATION ALSO APPLIES WHEN WORK IS BEING PERFORMED IN THE RIGHT LANE(S) AND THE RIGHT TURN BAY IS TO REMAIN OPEN. UNDER THIS CONDITION, "RIGHT TURN LANE" R3-1100R 24 x 24 (600 x 600) AND M6-2R 21 x 15 (530 x 380) SHALL BE USED.
- THESE CONTROLS SHALL SUPPLEMENT MAINLINE TRAFFIC CONTROL FOR LANE CLOSURES.
- THE SIGNS SHALL BE MOUNTED ABOVE THE BARRICADES/DRUMS ON SEPARATE SIGN SUPPORTS THAT MEET NCHRP 350 OR MASH PREQUIREMENTS.
- TRAFFIC CONTROL AND PROTECTION AT TURN BAYS (TO REMAIN OPEN TO TRAFFIC) SHALL BE INCLUDED IN THE COST OF SPECIFIED TRAFFIC CONTROL STANDARDS OR ITEMS.

TURN BAY ENTRANCE
WITHIN A LANE CLOSURE

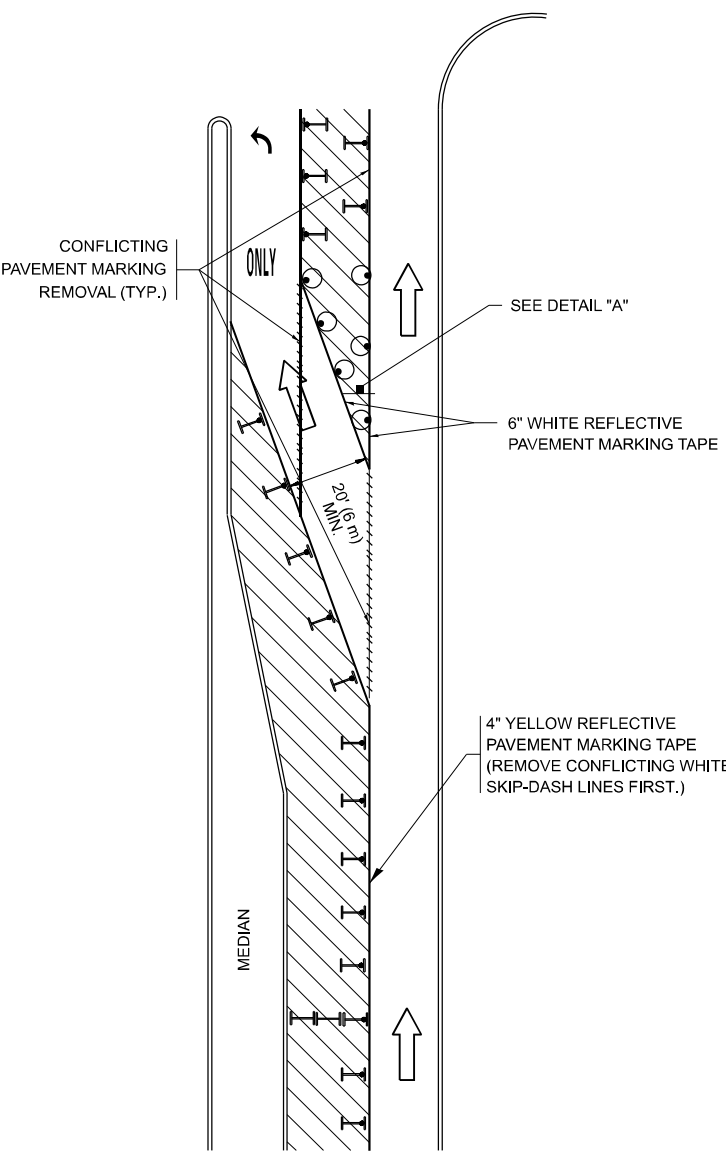
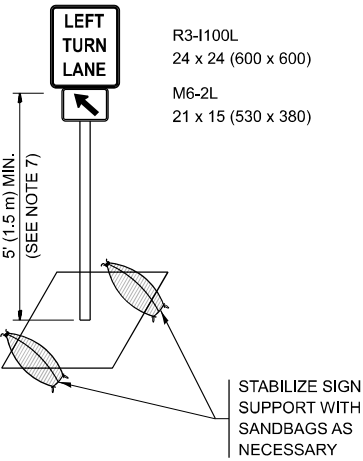


FIGURE 2



DETAIL A

All dimensions are in inches (millimeters) unless otherwise shown.

MODEL: TC-14
FILE NAME: c:\p\work\p\work\hamwi\md1103949\D103025-sh-DiaStd.dgn

USER NAME	= mohammad.hamwi	DESIGNED	- T. RAMMACHER 09-08-94	REVISED	- R. BORO 09-14-09
		DRAWN	- A. HOUSEH 11-07-95	REVISED	- A. SCHUETZE 07-01-13
		CHECKED	- A. HOUSEH 10-12-06	REVISED	- A. SCHUETZE 09-15-16
PLOT DATE	= 5/15/2025	DATE	- T. RAMMACHER 01-06-00	REVISED	-

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL AND PROTECTION AT TURN BAYS
(TO REMAIN OPEN TO TRAFFIC)

SCALE: NONE SHEET #004 OF 4 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2024-1008-BDS	VARIOUS	80	80
TC-14		CONTRACT NO. 62X45		
ILLINOIS		FED. AID PROJECT		