

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	FAI 55 23 BR	WILL	67	1
ILLINOIS CONTRACT NO. 62V11				

* 67 + 1 = 68 TOTAL SHEETS

FOR INDEX OF SHEETS, SEE SHEET NO. 2

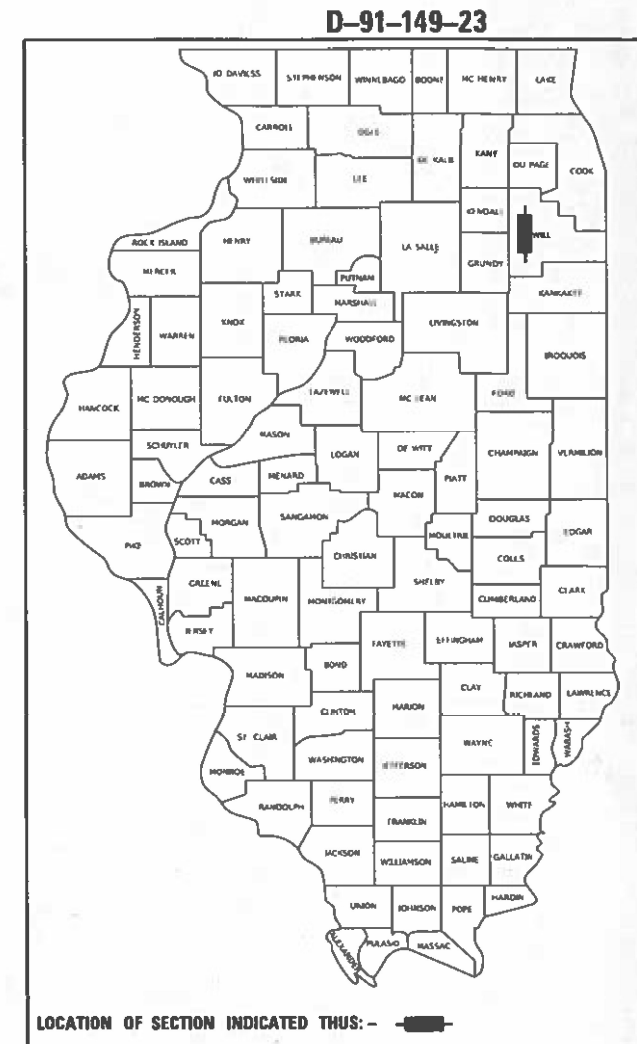
TRAFFIC DATA

EXISTING ADT = 53,900 (2021)
POSTED SPEED LIMIT = 65 MPH
FUNCTIONAL CLASS: INTERSTATE

PROJECT LOCATED IN
CHANNAHON TOWNSHIP

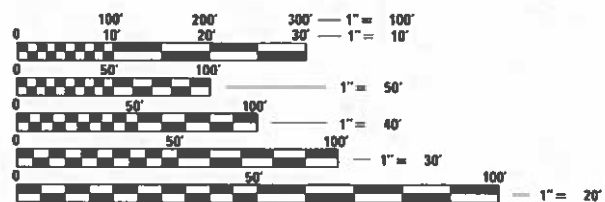
**PROPOSED
HIGHWAY PLANS**

F.A.I. ROUTE 55: I-55 AT DES PLAINES RIVER
SECTION: FAI 55 23 BR
PROJECT: NHPP-ZVE5(352)
DECK OVERLAY AND JOINT REPAIR (SN 099-0008 & 099-0009)
WILL COUNTY



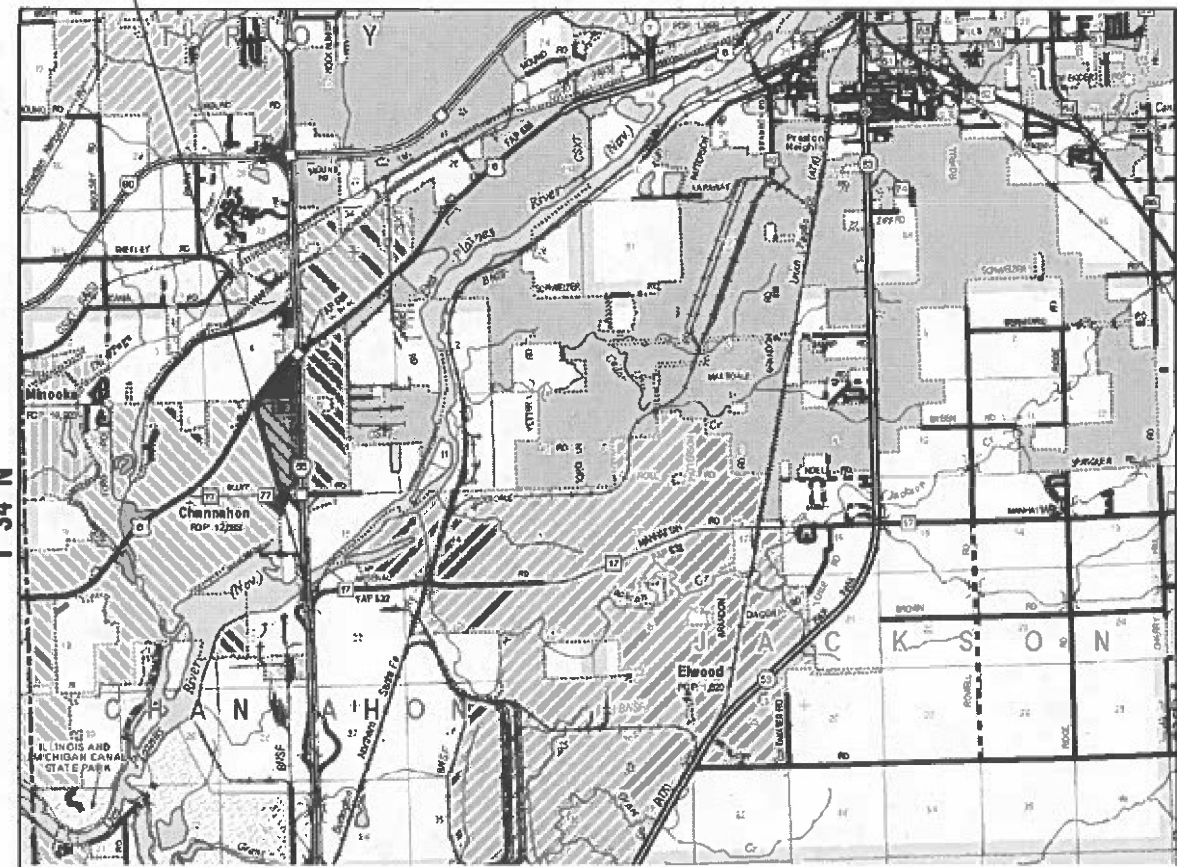
LOCATION OF
IMPROVEMENT
SN 099-0008 &
SN 099-0009

	10/16/2023	SEAL THOMAS P. PAOLICCHI REGISTERED PROFESSIONAL ENGINEER STATE OF ILLINOIS 062-056747
Thomas P. Paolicchi, P.E. Lic. No. 062.056747 Expires: 11/30/2023 ABNA ENGINEERING (SHTS 1-22, 61-67)	Date	
	10/16/2023	SEAL STEPHEN E. ALSBURY REGISTERED PROFESSIONAL ENGINEER STATE OF ILLINOIS 081-5261
Stephen E. Alsbury, S.E. Lic. No. 081.5261 Expires: 11/30/2024 ABNA ENGINEERING (SHTS 23-60)	Date	



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 EXCAVATORS
1-800-892-0123
OR 811



PROJECT ENGINEER: PRAVEEN KAINI, PE 847-705-4237
PROJECT MANAGER: J. ALAIN MIDY, PE 847-221-3056

GROSS LENGTH = 2810 FT. = 0.532 MILE
NET LENGTH = 2810 FT. = 0.532 MILE

CONTRACT NO. 62V11



STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUBMITTED October 16, 2023
John R. ... REGIONAL ENGINEER
December 8, 2023
Stephen M. ... ENGINEER OF DESIGN AND ENVIRONMENT
December 8, 2023
Stephen M. ... DIRECTOR OF HIGHWAYS PROJECT IMPLEMENTATION

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OF THE STATE OF ILLINOIS

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HIGHWAY STANDARDS

000001-08	STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS
001006	DECIMALS OF AN INCH AND OF A FOOT
642001-03	SHOULDER RUMBLE STRIPS, 16 IN.
701106-02	OFF-ROAD OPERATIONS, MULTILANE, MORE THAN 15' (4.5M) AWAY
701400-12	APPROACH TO LANE CLOSURE, FREEWAY/EXPRESSWAY
701401-13	LANE CLOSURE, FREEWAY/EXPRESSWAY
701411-09	LANE CLOSURE, MULTILANE, AT ENTRANCE OR EXIT RAMP, FOR SPEEDS \geq 45 MPH
701428-01	TRAFFIC CONTROL SETUP AND REMOVAL FREEWAY/EXPRESSWAY
701901-09	TRAFFIC CONTROL DEVICES

GENERAL NOTES

- DO NOT SCALE PLANS FOR CONSTRUCTION DIMENSIONS.
- CONSTRUCTION VARIATIONS. THE CONTRACTOR SHALL FIELD VERIFY EXISTING DIMENSIONS AND DETAILS AFFECTING NEW CONSTRUCTION AND MAKE NECESSARY APPROVED ADJUSTMENTS PRIOR TO CONSTRUCTION OR ORDERING OF MATERIALS. SUCH VARIATIONS SHALL NOT BE CAUSE FOR ADDITIONAL COMPENSATION FOR A CHANGE IN SCOPE OF THE WORK, HOWEVER, THE CONTRACTOR WILL BE PAID FOR THE QUANTITY ACTUALLY FURNISHED BASED AT THE UNIT PRICE BID FOR THE WORK.
- THE CONTRACTOR WILL NOT BE ALLOWED TO SET UP A YARD OR FIELD OFFICE ON STATE PROPERTY WITHOUT WRITTEN PERMISSION FROM THE DEPARTMENT.
- ALL DAMAGE TO EXISTING PAVEMENT MARKINGS OR RAISED REFLECTIVE PAVEMENT MARKERS SHALL BE REPLACED AT NO ADDITIONAL COST TO THE DEPARTMENT.
- THE CONTRACTOR SHALL CONTACT THE DISTRICT ONE TRAFFIC CONTROL SUPERVISOR AT KALPANA.KANNAN-HOSADURGA@ILLINOIS.GOV A MINIMUM OF 72 HOURS IN ADVANCE OF BEGINNING WORK.
- THE RESIDENT ENGINEER SHALL CONTACT WALTER CZARNY, IDOT'S AREA TRAFFIC FIELD ENGINEER VIA EMAIL AT WALTER.CZARNY@ILLINOIS.GOV A MINIMUM OF TWO (2) WEEKS PRIOR TO THE PLACEMENT OF PERMANENT PAVEMENT MARKINGS.

COMMITMENTS

THERE ARE NO COMMITMENTS FOR THIS CONTRACT.

MODEL SHEET
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PLOT DATE = 11/17/2023	DATE - 5/31/2023	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

INDEX OF SHEETS, STATE STANDARDS AND GENERAL NOTES

SCALE: NTS SHEET 1 OF 1 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	FAI 55 23 BR	WILL	67	2
CONTRACT NO. 62V11			ILLINOIS FED. AID PROJECT	

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE		CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE	
				90% FED 10% STATE BRIDGE 0047	90% FED 10% STATE BRIDGE 0047					90% FED 10% STATE BRIDGE 0047	90% FED 10% STATE BRIDGE 0047
				099-0008	099-0009					099-0008	099-0009
40600295	POLYMERIZED BITUMINOUS MATERIALS (TACK COAT)	POUND	416	208	208	78300202	PAVEMENT MARKING REMOVAL - WATER BLASTING	SQ.FT	2130	1065	1065
40605026	POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, STONE MATRIX ASPHALT, 9.5, MIX "F", N80	TON	560	280	280	* X0322559	BOLT REPLACEMENT	EACH	119	102	17
50102400	CONCRETE REMOVAL	CU YD	0.4	0.4	0	* X2700001	TEMPORARY RUMBLE STRIPS (SPECIAL)	EACH	12	6	6
50300300	PROTECTIVE COAT	SQ YD	3905	1953	1952	* 78004640	PREFORMED PLASTIC PAVEMENT MARKING, TYPE D - STANDARD - LINE 8"	FOOT	250	125	125
64200116	SHOULDER RUMBLE STRIPS, 16 INCH	FOOT	1323	661.5	661.5	* X5060700	CLEANING AND PAINTING BEARINGS	EACH	6	3	3
67100100	MOBILIZATION	L SUM	1	0.5	0.5	* X5810100	WATERPROOFING MEMBRANE SYSTEM (SPECIAL)	SQ YD	1579	790	789
70107025	CHANGEABLE MESSAGE SIGN	CAL DA	150	75	75	* X6420100	SHOULDER RUMBLE STRIP REMOVAL	SQ YD	588	294	294
* 70200100	NIGHTTIME WORK ZONE LIGHTING	L SUM	1	0.5	0.5	* X6700407	ENGINEER'S FIELD OFFICE, TYPE A (D1)	CAL MO	6	3	3
70300100	SHORT TERM PAVEMENT MARKING	FOOT	750	375	375	* X7011015	TRAFFIC CONTROL AND PROTECTION (EXPRESSWAYS)	L SUM	1	0.5	0.5
70300150	SHORT TERM PAVEMENT MARKING REMOVAL	SQ FT	252	126	126	* X7013820	TRAFFIC CONTROL SURVEILLANCE, EXPRESSWAYS	CAL DA	10	5	5
* 78000200	THERMOPLASTIC PAVEMENT MARKING - LINE 4"	FOOT	3680	1840	1840						
* 78004625	PREFORMED PLASTIC PAVEMENT MARKING, TYPE D - STANDARD - LINE 5"	FOOT	457	228.5	228.5	* X8570000	SMART TRAFFIC MONITORING SYSTEM	L SUM	1	0.5	0.5
* 78009004	MODIFIED URETHANE PAVEMENT MARKING - LINE 4"	FOOT	2000	1000	1000	* Z0001905	STRUCTURAL STEEL REPAIR	POUND	16990	5810	11180
78300200	RAISED REFLECTIVE PAVEMENT MARKER REMOVAL	EACH	88	44	44	* Z0004556	HOT-MIX ASPHALT SURFACE REMOVAL (DECK)	SQ YD	6648	3324	3324

* SPECIALTY ITEM

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES
STRUCTURE NO. 099-0008 & 099-0009

SCALE: NTS SHEET 1 OF 2 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	FAI 55 23 BR	WILL	67	3
			CONTRACT NO. 62V11	
ILLINOIS FED. AID PROJECT				

MAINTENANCE OF TRAFFIC GENERAL NOTES:

1. THE TEMPORARY TRAFFIC CONTROL DEPICTED HEREIN IS THE MINIMUM REQUIREMENT. ADDITIONAL TRAFFIC CONTROL DEVICES AS SPECIFIED IN THE HIGHWAY STANDARDS AS SHOWN IN THE INDEX OF SHEETS AND THE SPECIAL PROVISIONS SHALL BE PLACED BY THE CONTRACTOR TO THE SATISFACTION OF THE ENGINEER. ALL TRAFFIC CONTROL DEVICES SHALL BE CONSIDERED INCLUDED IN THE COST OF TRAFFIC CONTROL AND PROTECTION (EXPRESSWAYS) UNLESS OTHERWISE INDICATED WITHIN THESE GENERAL NOTES, PLANS OR SPECIAL PROVISIONS.
2. THE CONTRACTOR SHALL FURNISH, INSTALL, MAINTAIN AND REMOVE ALL SIGNS AND SIGN SUPPORTS REQUIRED FOR TRAFFIC CONTROL AND PROTECTION.
3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING LABOR, SIGNS AND TRAFFIC CONTROL DEVICES NECESSARY FOR THE MAINTENANCE OF TRAFFIC UNLESS NOTED OTHERWISE IN THE SPECIAL PROVISIONS.
4. THE CONTRACTOR SHALL CONTACT THE DISTRICT ONE TRAFFIC CONTROL SUPERVISOR AT (847) 705-4470 A MINIMUM OF 72 HOURS IN ADVANCE OF BEGINNING THE WORK.
5. ALL EXISTING SIGNS THAT CONFLICT WITH THE TRAFFIC CONTROL PLAN SHALL BE COVERED OR REMOVED IN ACCORDANCE WITH ARTICLE 107.25 OF THE STANDARD SPECIFICATIONS.
6. THE CONTRACTOR SHALL BE REQUIRED TO MAINTAIN TRAFFIC IN ACCORDANCE WITH THE TRAFFIC CONTROL PLANS, SPECIAL PROVISIONS, APPLICABLE STATE STANDARDS, AND AS DIRECTED BY THE ENGINEER. ANY CHANGES TO THE TRAFFIC CONTROL SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PRIOR TO IMPLEMENTING ANY CHANGES.
7. TRAFFIC CONDITIONS, ACCIDENTS, AND OTHER UNFORESEEN EMERGENCY CONDITIONS MAY REQUIRE THE ENGINEER TO RESTRICT, MODIFY OR REMOVE LANE CLOSURES OR CHANNELIZATION SHOWN IN THE PLANS. THE CONTRACTOR SHALL PROMPTLY RESPOND AT THE TIME OF NOTIFICATION BY THE ENGINEER FOR THE MAINTENANCE OF TRAFFIC CONTROL DEVICES.
8. THE ENGINEER SHALL BE INFORMED A MINIMUM OF 48 HOURS IN ADVANCE OF ANY PROPOSED CHANGE TO THE SUGGESTED STAGES OF CONSTRUCTION AND TRAFFIC CONTROL PLAN.
9. ALL TRAFFIC CONTROL DEVICES SHALL BE REMOVED, COVERED OR TURNED AWAY FROM THE TRAFFIC IMMEDIATELY WHEN THEY ARE NO LONGER NECESSARY.
10. IMMEDIATELY AFTER THE COMPLETION OF CONSTRUCTION, THE CONTRACTOR SHALL RESTORE ALL PERMANENT PAVEMENT MARKINGS, SIGNS, AND OTHER TRAFFIC CONTROL DEVICES THAT WERE COVERED, REMOVED, DAMAGED OR OTHERWISE AFFECTED BY CONSTRUCTION.
11. ALL EXISTING SPEED LIMIT SIGNS WITHIN THE WORK ZONE SHALL BE COVERED.
12. THE CONTRACTOR SHALL INSTALL ROAD CONSTRUCTION AHEAD SIGNS ON THE ENTRANCE RAMP FROM BLUFF ROAD & ARSENAL ROAD.
13. THE CONTRACTOR SHALL REQUEST AND GAIN APPROVAL FROM THE ILLINOIS DEPARTMENT OF TRANSPORTATION'S EXPRESSWAY TRAFFIC OPERATION ENGINEER AT WWW.IDOTLCS.COM TWENTY-FOUR (24) HOURS IN ADVANCE OF ALL DAILY LANE, RAMP AND SHOULDER CLOSURES AND 7 DAYS IN ADVANCE OF ALL PERMANENT AND WEEKEND CLOSURES ON ALL FREEWAYS AND/OR EXPRESSWAYS IN DISTRICT ONE. THIS ADVANCE NOTIFICATIONS IS CALCULATED BASED ON A WORKWEEK OF MONDAY THROUGH FRIDAY AND SHALL NOT INCLUDE WEEKENDS OR HOLIDAYS.
14. THE CONTRACTOR SHALL CONTACT THE IDOT DISTRICT ONE EXPRESSWAY TRAFFIC CONTROL SUPERVISOR CARLOS AT CARLOS.MUNOZ@ILLINOIS.GOV A MINIMUM OF 72 HOURS IN ADVANCE OF BEGINNING OF WORK.
15. THE CONTRACTOR SHALL DEPLOY ALL SMART WORK ZONE, WIDTH RESTRICTION SIGNING & PCMS SEVEN (7) DAYS PRIOR TO THE EXTENDED SHUTDOWN.

SEQUENCING NOTES:

PRE-STAGE:

CONSTRUCTION:
ALONG INSIDE SB/NB I-55 SHOULDERS AND INSIDE SB/NB I-55 LANES REMOVE SHOULDER RUMBLE STRIP (AT LOCATIONS SHOWN ON THE PLANS) AND REPLACE WITH HMA SURFACE AS SHOWN ON THE PLANS.

TRAFFIC CONTROL:
USE LANE CLOSURES STANDARD 701400 AND 701401 TO CLOSE INSIDE LANES.

CLOSE OUTSIDE LANES SB AND NB AS SHOWN IN THE STAGE 1 PLANS.

STAGE-1 & 3:

CONSTRUCTION:
PERFORM ALL BRIDGE REPAIRS ON NB (STAGE 1) AND SB (STAGE 3) OUTSIDE AREAS OF SN 099-0008 AND 099-0009. REFER TO STRUCTURAL PLANS FOR MORE INFORMATION.

REMOVE SHOULDER RUMBLE STRIP (AT LOCATIONS SHOWN ON THE PLANS) AND REPLACE WITH HMA SURFACE AS SHOWN ON THE PLANS.

TRAFFIC CONTROL:
USE LANE CLOSURES STANDARD 701400 AND 701401 TO PERFORM THE WORK. LANE CLOSURES SHALL BE IN PLACE FROM FRI 9:00PM TO MONDAY 5:00AM. CLOSE INSIDE LANES NB (STAGE 1) AND SB (STAGE 3) AS SHOWN IN THE PLANS.

STAGE-2 & 4:

CONSTRUCTION:
PERFORM ALL BRIDGE REPAIRS ON NB (STAGE 2) AND SB (STAGE 4) INSIDE AREAS OF SN 099-0008 AND 099-0009. REFER TO STRUCTURAL PLANS FOR MORE INFORMATION.

AT THE COMPLETION OF STAGE 4 BRIDGE REPAIRS REMOVE ALL TRAFFIC CONTROL.

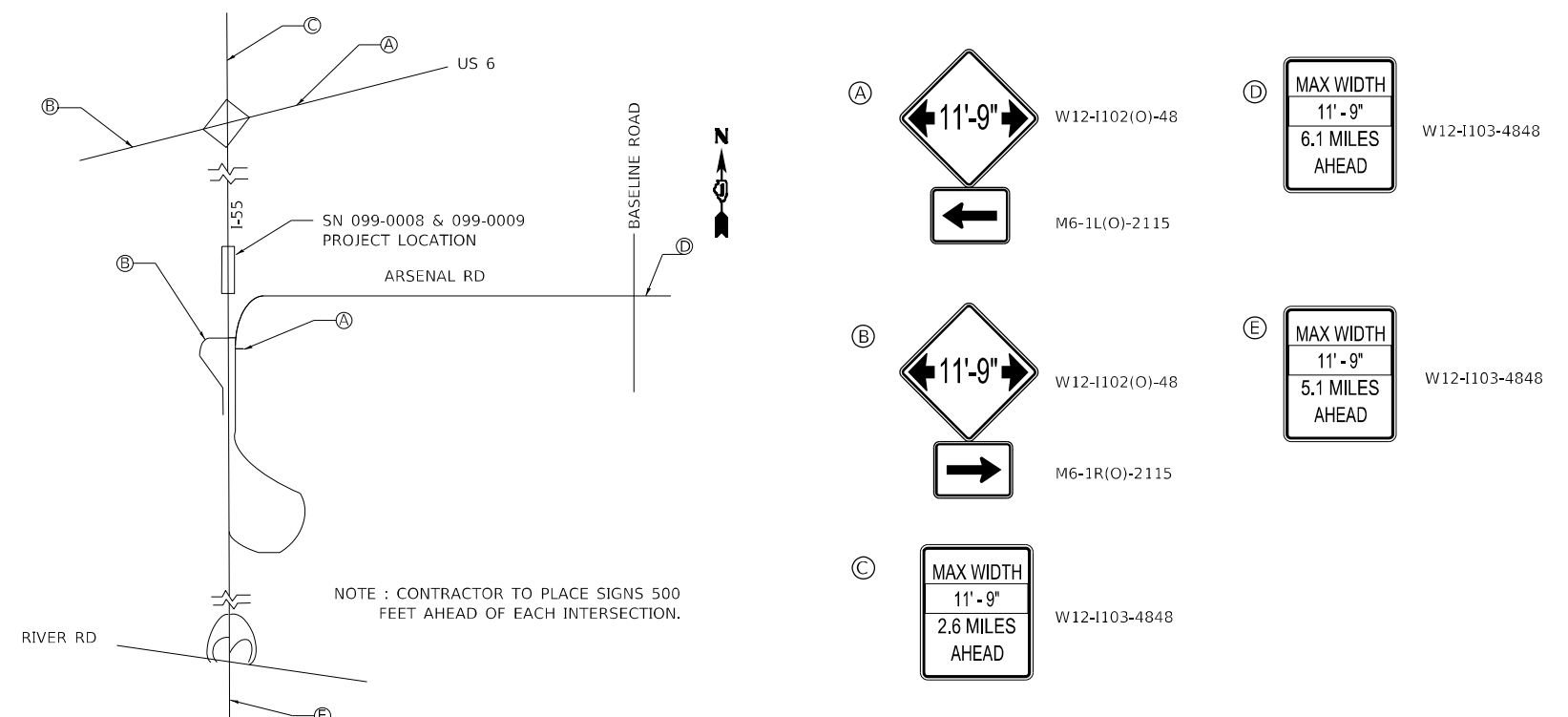
TRAFFIC CONTROL:
USE LANE CLOSURES STANDARD 701400 AND 701401 TO PERFORM THE WORK. LANE CLOSURES SHALL BE IN PLACE FROM FRI 9:00PM TO MONDAY 5:00AM.

FINAL STAGE

CONSTRUCTION:
INSTALL RUMBLE STRIPS IN LOCATIONS WHERE THEY WERE REMOVED.

TRAFFIC CONTROL:
USE LANE CLOSURES STANDARD 701400 AND 701401 TO PERFORM THE WORK.

WIDTH RESTRICTION SIGNING DETAIL



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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

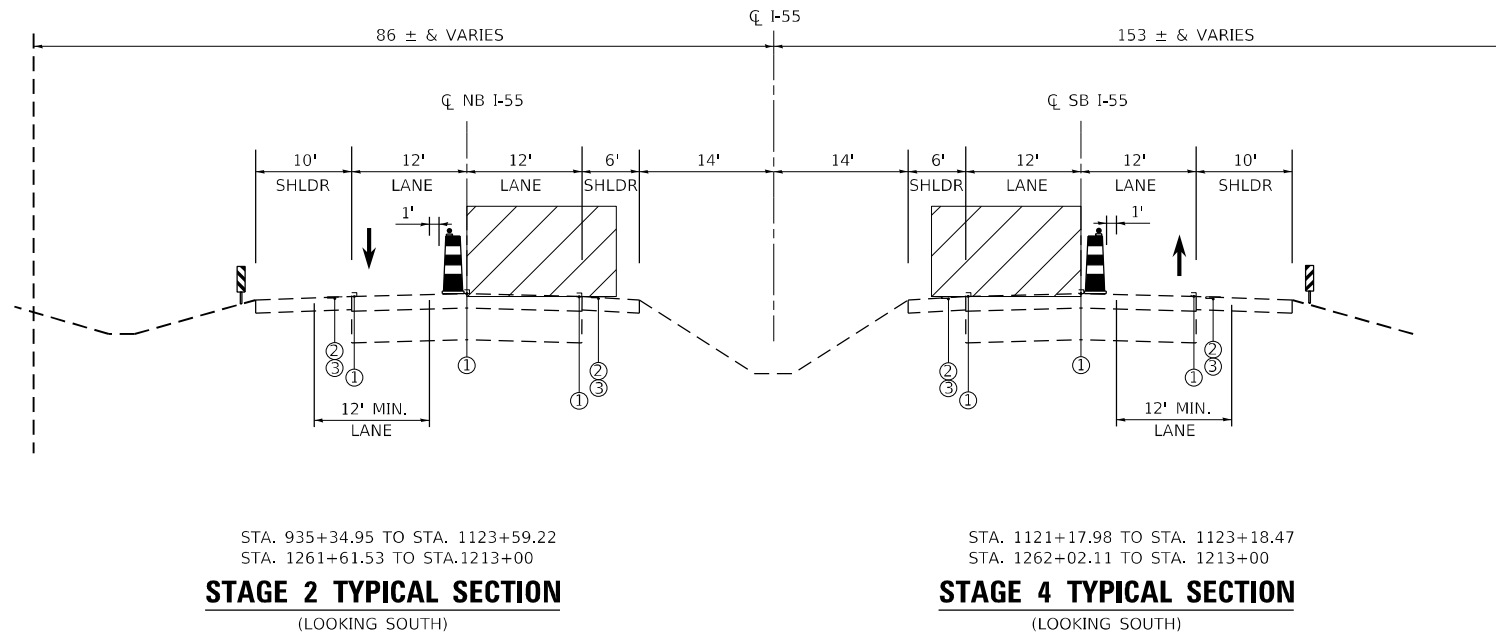
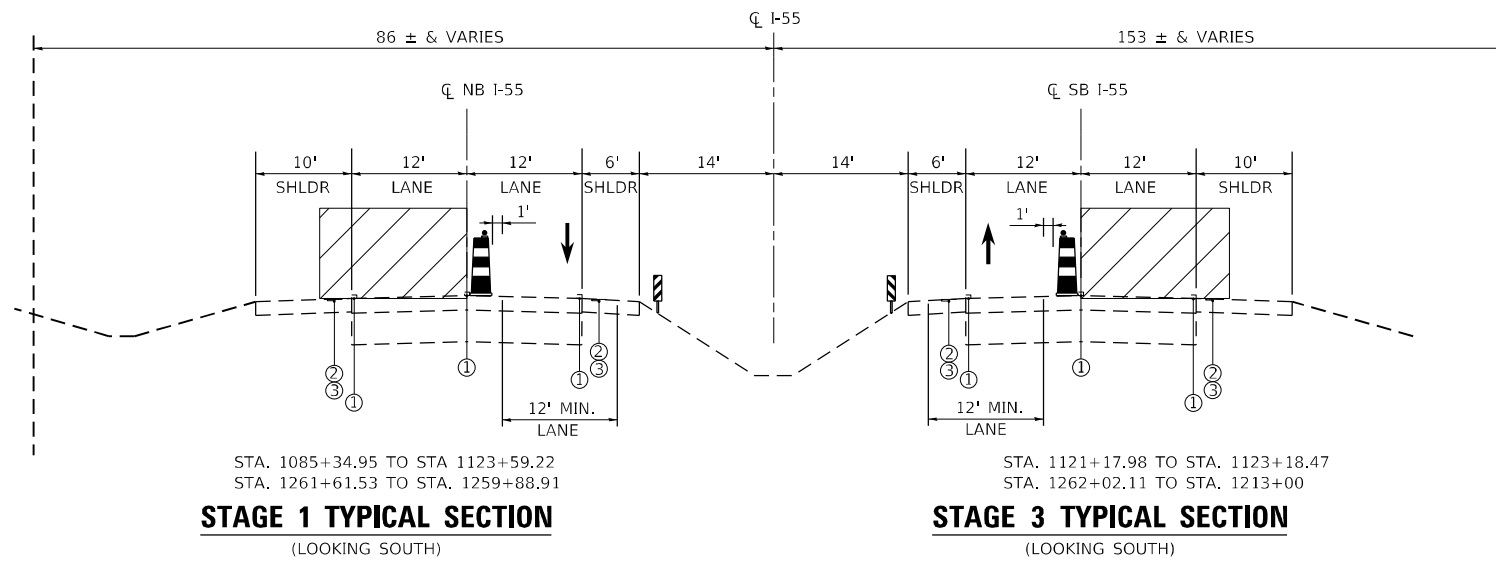
**MAINTENANCE OF TRAFFIC - NOTES
STRUCTURE NO. 099-0008 & 099-0009**

SCALE: NTS SHEET 1 OF 2 SHEETS STA. XX+XX TO STA. XX+XX

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	FAI 55 23 BR	WILL	67	5
ILLINOIS FED. AID PROJECT			CONTRACT NO. 62V11	

LEGEND

- ① EXISTING PAVEMENT MARKING
- ② EXISTING RUMBLE STRIP
- ③ REMOVE EX 16" SHOULDER RUMBLE STRIP AND PLACE HMA SURFACE COURSE, IL-9.5, MIX 'D', N70, 2"
- ↑ DIRECTION OF TRAFFIC
- ⦿ DRUM WITH MONO DIRECTIONAL STEADY BURN LIGHT REFER TO STANDARD 701401
- ▨ WORK AREA
- ⚡ VERTICAL PANELS @ 50' C-C

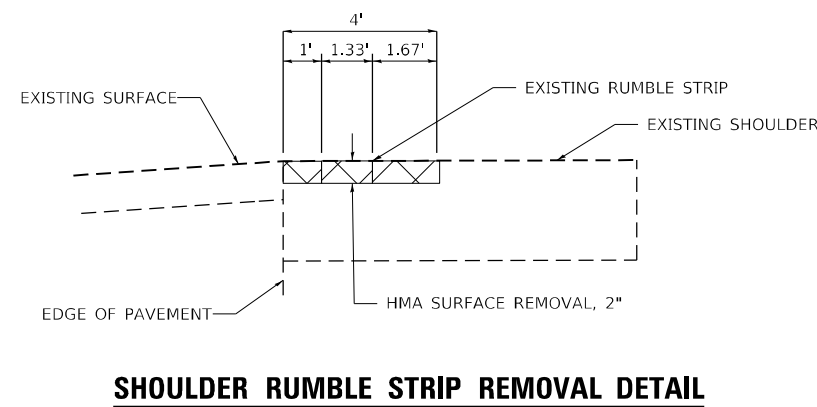


HOT-MIX ASPHALT MIXTURE REQUIREMENTS

MIXTURE TYPE	AIR VOIDS (%) AT N DES	QUALITY MANAGEMENT PROGRAM (QMP)
BRIDGE HMA OVERLAY -POLYMERIZED HMA SURFACE COURSE, STONE MATRIX ASPHALT, 9.5, MIX "F", N80; 1 1/2"	3.5% @ 80 GYR.	QC/QA
SHOULDER RUMBLE STRIP REMOVAL -HMA SURFACE COURSE, IL-9.5, MIX "D", N70; 2"	4.0% @ 70 GYR.	QC/QA

QMP DESIGNATION: QUALITY CONTROL/QUALITY ASSURANCE (QC/QA); QUALITY CONTROL FOR PERFORMANCE (QCP); PAY FOR PERFORMANCE (PFP)

- NOTES:
- THE UNIT WEIGHT USED TO CALCULATE ALL HMA SURFACE MIXTURE QUANTITIES IS 112 LBS/SQ. YD./IN.
 - THE 'AC TYPE' FOR POLYMERIZED HMA MIXES SHALL BE "SBS/SBR PG 76-22". AND FOR NON-POLYMERIZED HMA THE "AC TYPE" SHALL BE "PG 64-22" UNLESS MODIFIED BY RECLAIMED MATERIALS SPECIFICATIONS.



RUMBLE STRIP REMOVAL					
PRE-STAGE					
NORTHBOUND INSIDE SHOULDER			SOUTHBOUND INSIDE SHOULDER		
1122+37.58	TO	1123+59.22	1121+17.98	TO	1123+18.47
1261+61.53	TO	1259+88.91	1262+02.11	TO	1260+00.00
STAGE 1 & 3					
NORTHBOUND OUTSIDE SHOULDER			SOUTHBOUND OUTSIDE SHOULDER		
1122+33.08	TO	1123+59.22	1121+94.16	TO	1123+18.47
1261+61.53	TO	1259+88.91	1260+00.00	TO	1262+02.11

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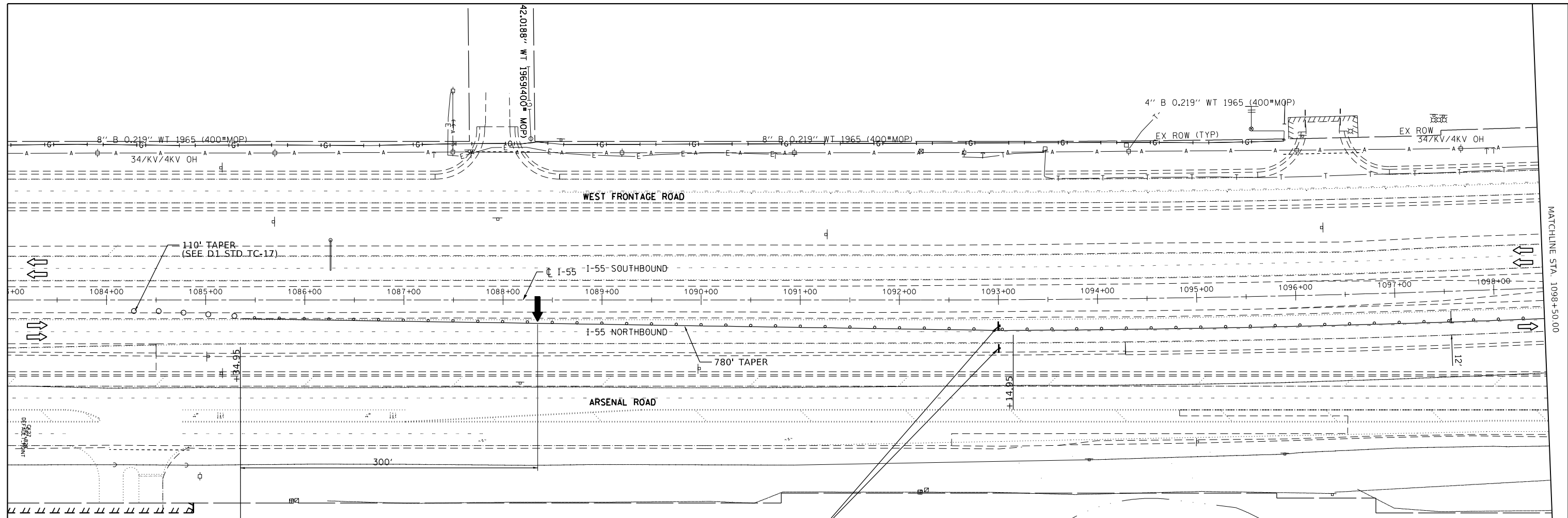
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PLOT DATE = 11/20/2023	DATE - 5/31/2023	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

MAINTENANCE OF TRAFFIC - TYPICAL SECTIONS			
STRUCTURE NO. 099-0008 & 099-0009			
SCALE: NTS	SHEET 2	OF 2 SHEETS	STA. XX+XX TO STA. XX+XX

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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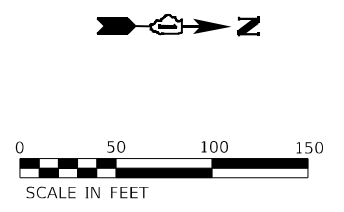
SEE STANDARD 701400
"APPROACH TO LANE
CLOSURE, FREEWAY/
EXPRESSWAY" FOR
ADVANCE SIGN
PLACEMENT
AND SEE
DISTRICT 1 STANDARD
TC-33 FOR "ADVANCE
TEMPORARY RUMBLE STRIPS
AND ADDITIONAL
TRAFFIC CONTROL"

SEE STANDARD 701401
"LANE CLOSURE,
FREEWAY/ EXPRESSWAY"
FOR SIGN PLACEMENT

WORK ZONE
SPEED LIMIT
45
PHOTO ENFORCED
\$250 FINE MINIMUM

W21-III5(0)-3618
R2-1-3648
R10-I108p-3618
R2-I106p-3618
STA. 1093+00

- LEGEND**
- ARROW BOARD
 - DRUMS WITH STEADY BURN MONODIRECTIONAL LIGHT (50' C-C IN TAPERS AND 100' C-C IN TANGENT SECTIONS)
 - SIGN
 - WORK AREA
 - EXISTING PAVEMENT MARKING REMOVAL



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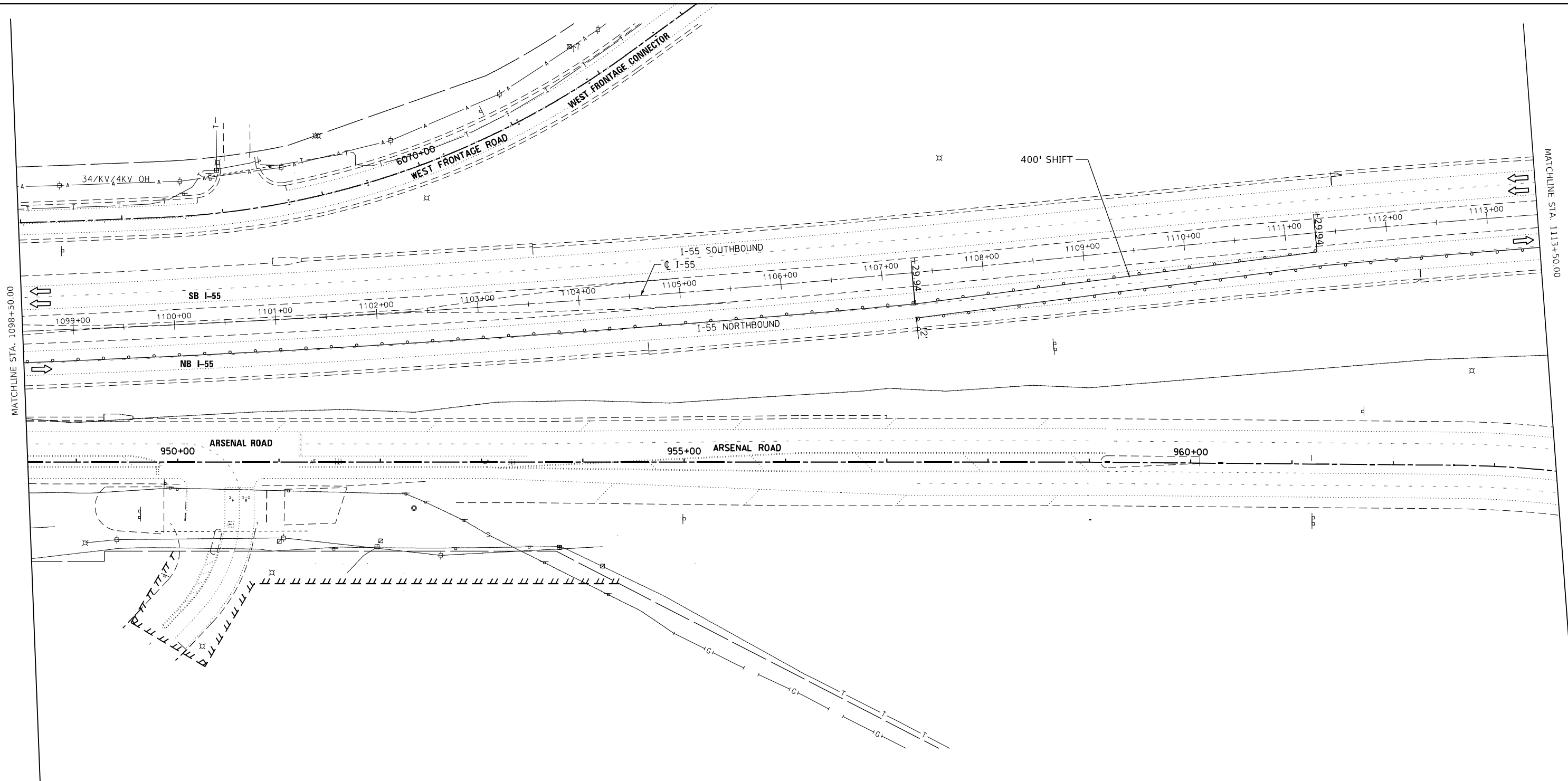
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**MAINTENANCE OF TRAFFIC PLAN - STAGE 1 & 3
STRUCTURE NO. 099-0008 & 099-0009**

SCALE: 1"=50' SHEET 1 OF 14 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	FAI 55 23 BR	WILL	67	7
CONTRACT NO. 62V11				
ILLINOIS FED. AID PROJECT				

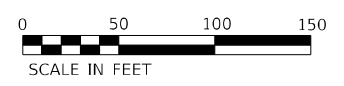


MATCHLINE STA. 1098+50.00

MATCHLINE STA. 1113+50.00

LEGEND

- ARROW BOARD
- DRUMS WITH STEADY BURN MONODIRECTIONAL LIGHT
(50' C-C IN TAPERS AND 100' C-C IN TANGENT SECTIONS)
- SIGN
- WORK AREA
- EXISTING PAVEMENT MARKING REMOVAL



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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**MAINTENANCE OF TRAFFIC PLAN - STAGE 1 & 3
STRUCTURE NO. 099-0008 & 099-0009**

SCALE: 1"=50' SHEET 2 OF 14 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	FAI 55 23 BR	WILL	67	8
CONTRACT NO. 62V11				
ILLINOIS FED. AID PROJECT				

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745 McClintock Drive
 Suite 210
 Burr Ridge, IL 60527
 Ph. 773-881-4788
 Fax: 773-239-3728

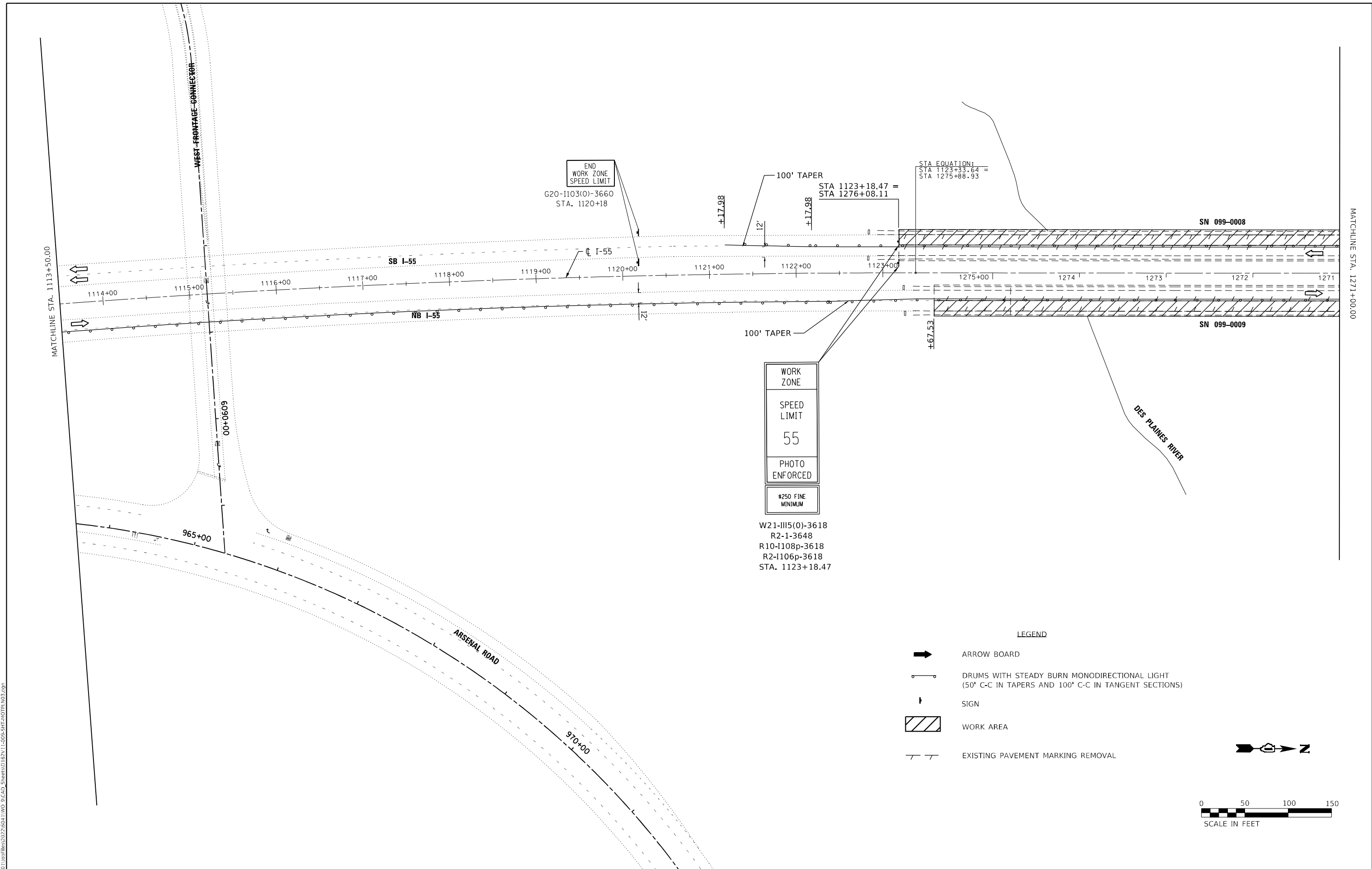
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DRAWN	- JO	REVISIONS	-	REVISED	-
PLOT SCALE	= 100,0037' / in.	CHECKED	- OJ	REVISED	-
PLOT DATE	= 10/19/2023	DATE	= 5/31/2023	REVISED	-

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**MAINTENANCE OF TRAFFIC PLAN - STAGE 1 & 3
 STRUCTURE NO. 099-0008 & 099-0009**

SCALE: 1"=50' SHEET 3 OF 14 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	FAI 55 23 BR	WILL	67	9
CONTRACT NO. 62V11				
ILLINOIS FED. AID PROJECT				



WORK ZONE

SPEED LIMIT

55

PHOTO ENFORCED

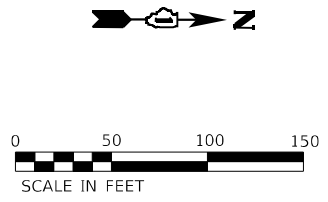
\$250 FINE MINIMUM

W21-III5(0)-3618
 R2-1-3648
 R10-1108p-3618
 R2-1106p-3618
 STA. 1123+18.47

STA EQUATION:
 STA 1123+33.64 =
 STA 1275+88.93

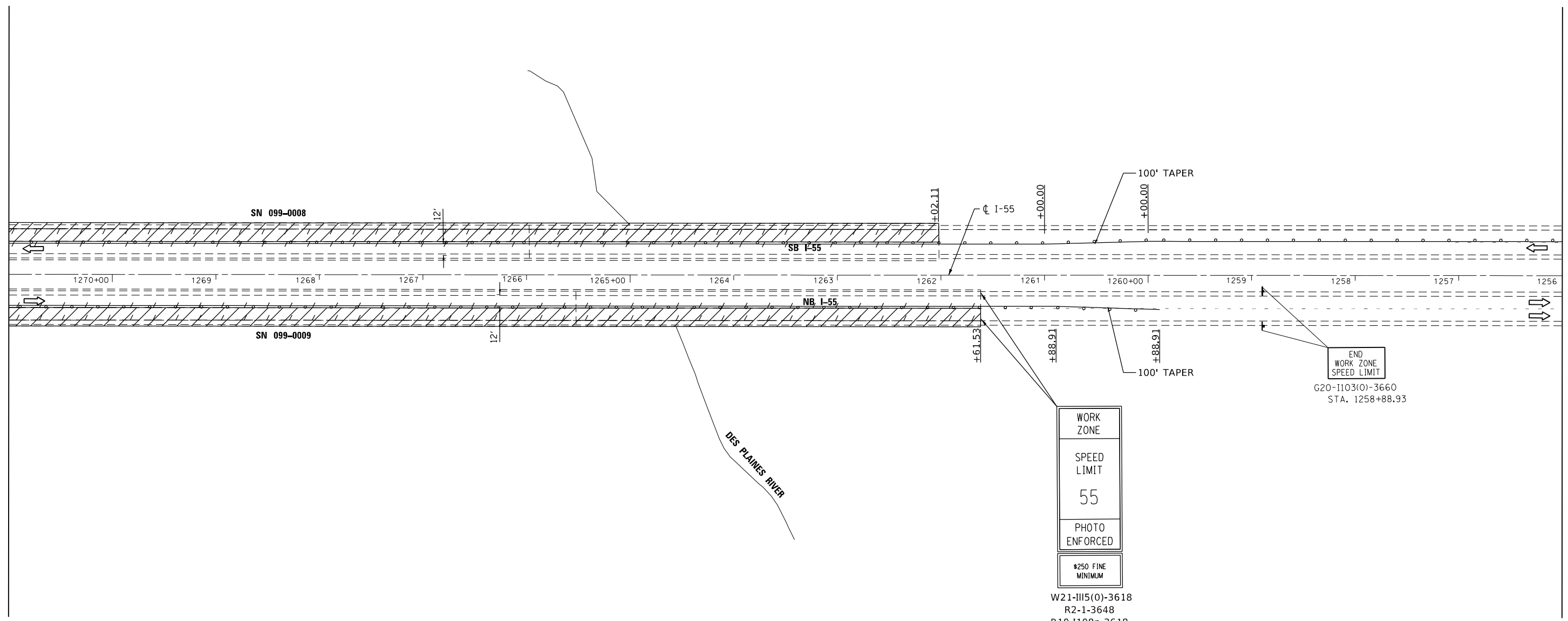
LEGEND

- ARROW BOARD
- DRUMS WITH STEADY BURN MONODIRECTIONAL LIGHT (50' C-C IN TAPERS AND 100' C-C IN TANGENT SECTIONS)
- SIGN
- WORK AREA
- EXISTING PAVEMENT MARKING REMOVAL



MATCHLINE STA. 1271+00.00

MATCHLINE STA. 1256+00.00








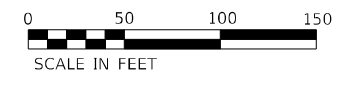
WORK ZONE
SPEED LIMIT
55
PHOTO ENFORCED
\$250 FINE MINIMUM

W21-III5(0)-3618
R2-1-3648
R10-1108p-3618
R2-1106p-3618
STA. 1261+61.53

END WORK ZONE SPEED LIMIT
G20-1103(0)-3660
STA. 1258+88.93

LEGEND

-  ARROW BOARD
-  DRUMS WITH STEADY BURN MONODIRECTIONAL LIGHT (50' C-C IN TAPERS AND 100' C-C IN TANGENT SECTIONS)
-  SIGN
-  WORK AREA
-  EXISTING PAVEMENT MARKING REMOVAL



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USER NAME = aasyed	DESIGNED - TPP	REVISED -
DRAWN - JO	REVISOR -	
PLOT SCALE = 100,0037' / in.	CHECKED - OJ	REVISED -
PLOT DATE = 10/19/2023	DATE - 5/31/2023	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

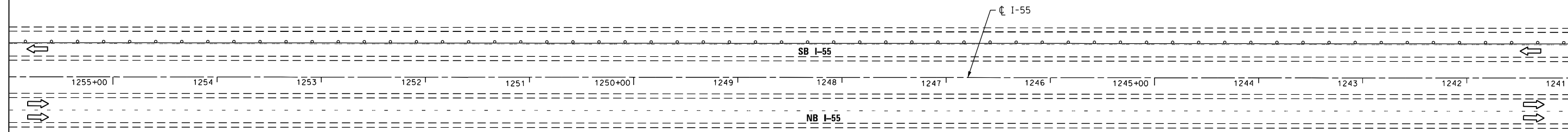
MAINTENANCE OF TRAFFIC PLAN - STAGE 1 & 3
STRUCTURE NO. 099-0008 & 099-0009

SCALE: 1"=50' SHEET 4 OF 14 SHEETS STA. TO STA.






F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	FAI 55 23 BR	WILL	67	10
CONTRACT NO. 62V11				
ILLINOIS FED. AID PROJECT				

MATCHLINE STA. 1256+00.00

I-55 STA. 1241+00.00



LEGEND

-  ARROW BOARD
-  DRUMS WITH STEADY BURN MONODIRECTIONAL LIGHT (50' C-C IN TAPERS AND 100' C-C IN TANGENT SECTIONS)
-  SIGN
-  WORK AREA
-  EXISTING PAVEMENT MARKING REMOVAL



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USER NAME	= aasyed	DESIGNED	- TPP	REVISED	-
		DRAWN	- JO	REVISED	-
PLOT SCALE	= 100,0037' / in.	CHECKED	- OJ	REVISED	-
PLOT DATE	= 10/19/2023	DATE	= 5/31/2023	REVISED	-

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

MAINTENANCE OF TRAFFIC PLAN – STAGE 1 & 3
STRUCTURE NO. 099-0008 & 099-0009

SCALE: 1"=50' SHEET 5 OF 14 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	FAI 55 23 BR	WILL	67	11
ILLINOIS FED. AID PROJECT			CONTRACT NO. 62V11	






SEE STANDARD 701411
 "LANE CLOSURE", MULTILANE
 AT ENTRANCE OR EXIT RAMP
 FOR SPEEDS ≥ 45 MPH"
 APPLICATION NO.2 FOR DETAILED
 LAYOUT, SIGNAGE AND SIGN PLACEMENT

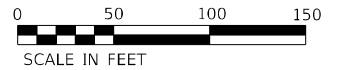
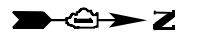
MATCHLINE STA. 1241+00.00

I-55 STA. 1226+00.00

1240+00 | 1239 | 1238 | 1237 | 1236 | 1235+00 | 1234 | 1233 | 1232 | 1231 | 1230+00 | 1229 | 1228 | 1227 | 1226

LEGEND

-  ARROW BOARD
-  DRUMS WITH STEADY BURN MONODIRECTIONAL LIGHT
(50' C-C IN TAPERS AND 100' C-C IN TANGENT SECTIONS)
-  SIGN
-  WORK AREA
-  EXISTING PAVEMENT MARKING REMOVAL



MODEL: D:\p\h
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ABNA
 DESIGN FIRM REG. 184,002117

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USER NAME	= aasyed	DESIGNED	- TPP	REVISED	-
DRAWN	- JO	REVISIONS	-	REVISED	-
PLOT SCALE	= 100,0037' / in.	CHECKED	- OJ	REVISED	-
PLOT DATE	= 10/19/2023	DATE	= 5/31/2023	REVISED	-

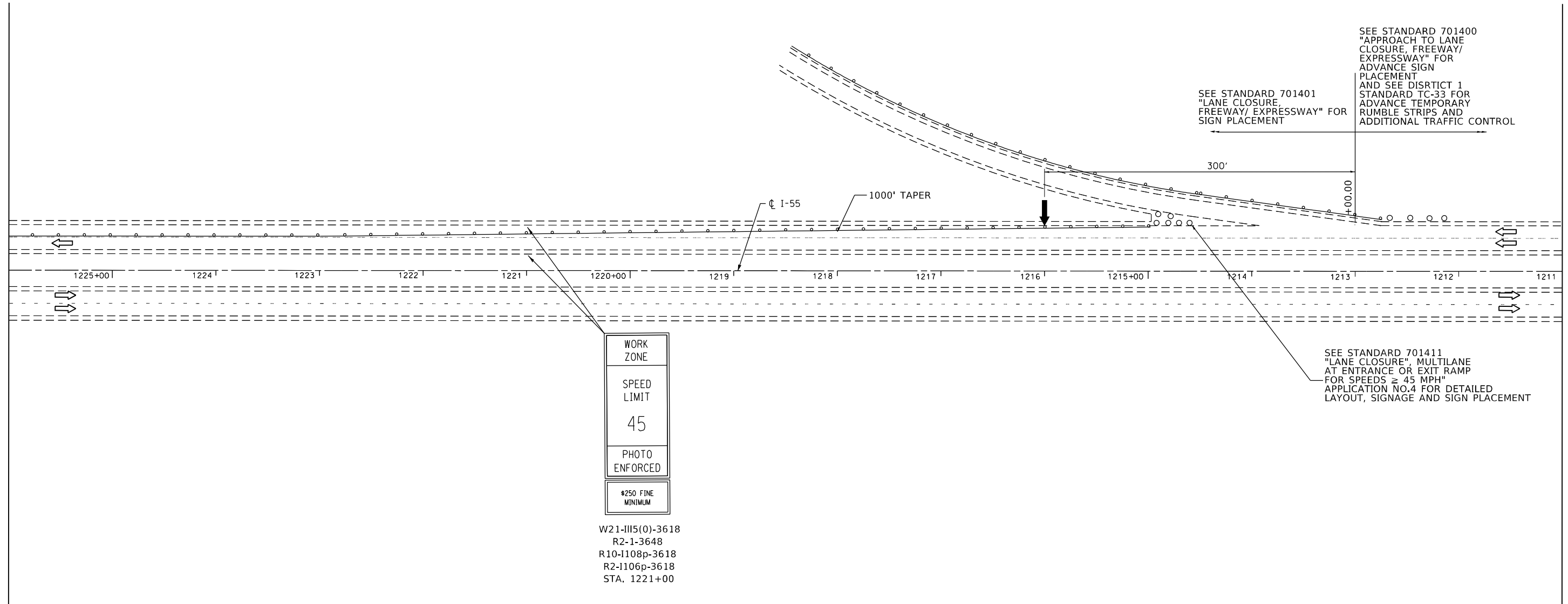
**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**MAINTENANCE OF TRAFFIC PLAN – STAGE 1 & 3
 STRUCTURE NO. 099-0008 & 099-0009**

SCALE: 1"=50' SHEET 6 OF 14 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	FAI 55 23 BR	WILL	67	12
CONTRACT NO. 62V11				
ILLINOIS FED. AID PROJECT				

MATCHLINE STA. 1226+00.00



WORK ZONE
SPEED LIMIT
45
PHOTO ENFORCED
\$250 FINE MINIMUM

W21-III5(0)-3618
R2-1-3648
R10-1108p-3618
R2-1106p-3618
STA. 1221+00

LEGEND

- ARROW BOARD
- DRUMS WITH STEADY BURN MONODIRECTIONAL LIGHT (50' C-C IN TAPERS AND 100' C-C IN TANGENT SECTIONS)
- SIGN
- WORK AREA
- EXISTING PAVEMENT MARKING REMOVAL



MODEL: D:\p\h\... FILE NAME: W21-III5(0)-3618-001.dwg



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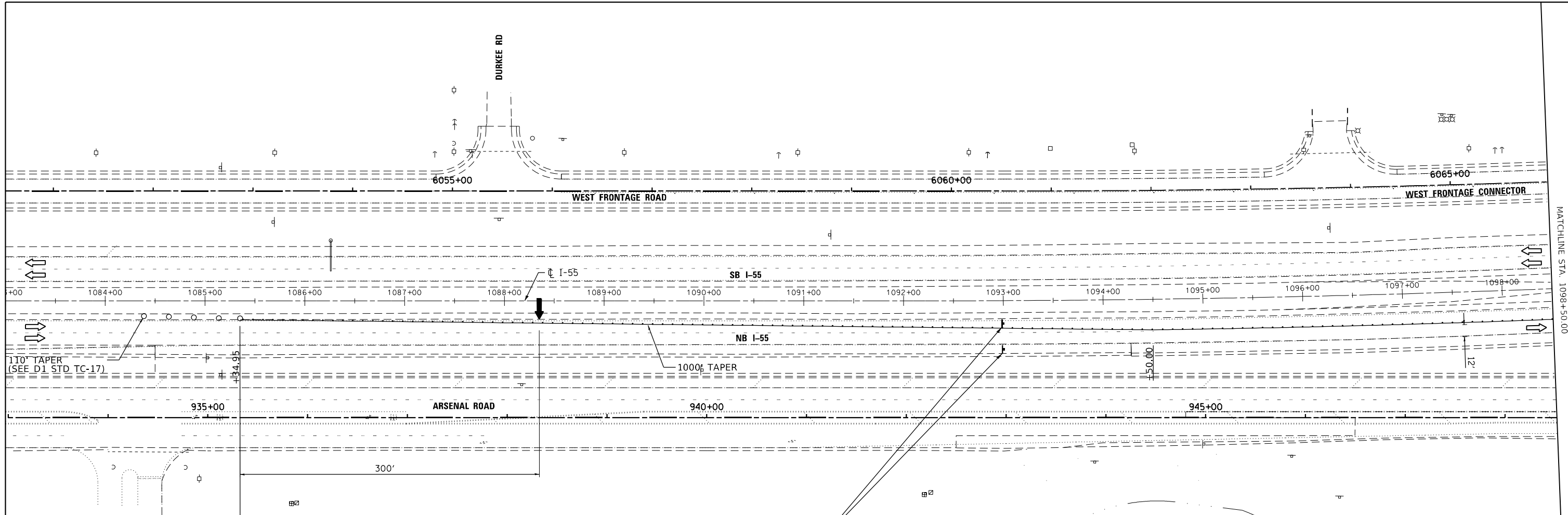
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	DRAWN - JO	REVISED -
PLOT SCALE = 100,0037' / in.	CHECKED - OJ	REVISED -
PLOT DATE = 10/19/2023	DATE = 5/31/2023	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

MAINTENANCE OF TRAFFIC PLAN - STAGE 1 & 3
STRUCTURE NO. 099-0008 & 099-0009

SCALE: 1"=50' SHEET 7 OF 14 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	FAI 55 23 BR	WILL	67	13
CONTRACT NO. 62V11				
ILLINOIS FED. AID PROJECT				



MATCHLINE STA. 1098+50.00

SEE STANDARD 701400
"APPROACH TO LANE
CLOSURE, FREEWAY/
EXPRESSWAY" FOR
ADVANCE SIGN
PLACEMENT
AND SEE DISTRICT 1
STANDARD TC-33 FOR
ADVANCE TEMPORARY
RUMBLE STRIPS AND
ADDITIONAL TRAFFIC
CONTROL

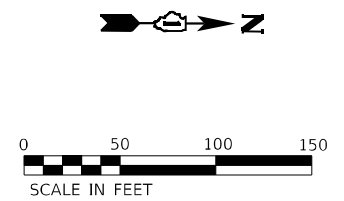
SEE STANDARD 701401
"LANE CLOSURE,
FREEWAY/EXPRESSWAY"
FOR SIGN PLACEMENT

WORK ZONE
SPEED LIMIT
45
PHOTO ENFORCED
\$250 FINE MINIMUM

W21-III(0)-3618
R2-1-3648
R10-1108p-3618
R2-1106p-3618
STA. 1093+00

LEGEND

- ARROW BOARD
- DRUMS WITH STEADY BURN MONODIRECTIONAL LIGHT
(50' C-C IN TAPERS AND 100' C-C IN TANGENT SECTIONS)
- SIGN
- WORK AREA
- EXISTING PAVEMENT MARKING REMOVAL



MODEL: D:\p\11\1100\1100\1100_0\CAD_Sheets\1100_0\1100_0.dgn



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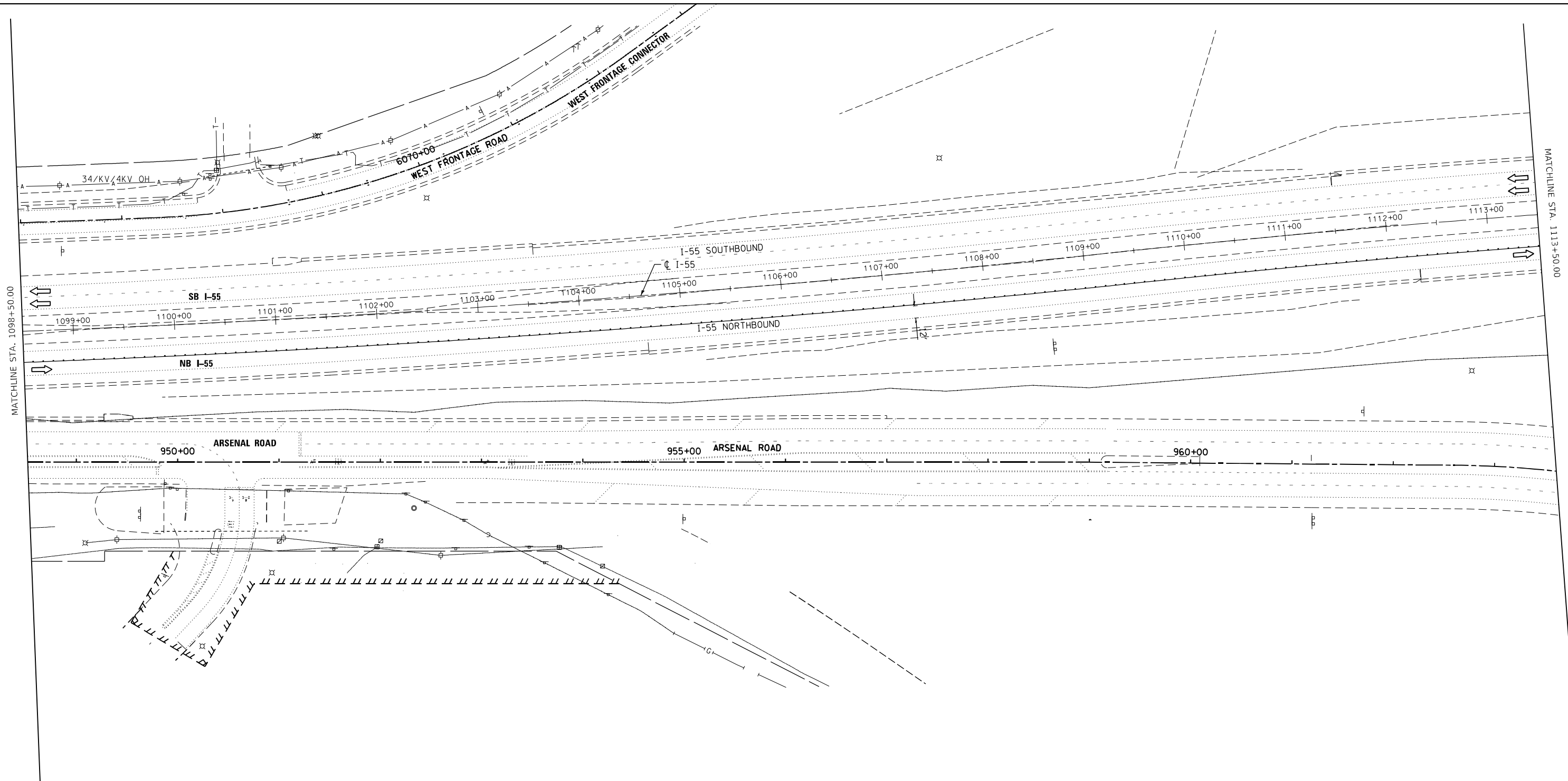
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PLOT DATE = 10/19/2023	CHECKED - OJ	REVISED -
	DATE = 5/31/2023	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**






**MAINTENANCE OF TRAFFIC PLAN - STAGE 2 & 4
STRUCTURE NO. 099-0008 & 099-0009**

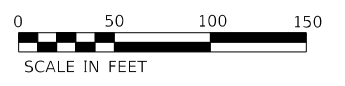
SCALE: 1"=50' SHEET 8 OF 14 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	FAI 55 23 BR	WILL	67	14
CONTRACT NO. 62V11				
ILLINOIS FED. AID PROJECT				



LEGEND

-  ARROW BOARD
-  DRUMS WITH STEADY BURN MONODIRECTIONAL LIGHT (50' C-C IN TAPERS AND 100' C-C IN TANGENT SECTIONS)
-  SIGN
-  WORK AREA
-  EXISTING PAVEMENT MARKING REMOVAL



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	DRAWN - JO	REVISED -
PLOT SCALE = 100,0037' / in.	CHECKED - OJ	REVISED -
PLOT DATE = 10/19/2023	DATE = 5/31/2023	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

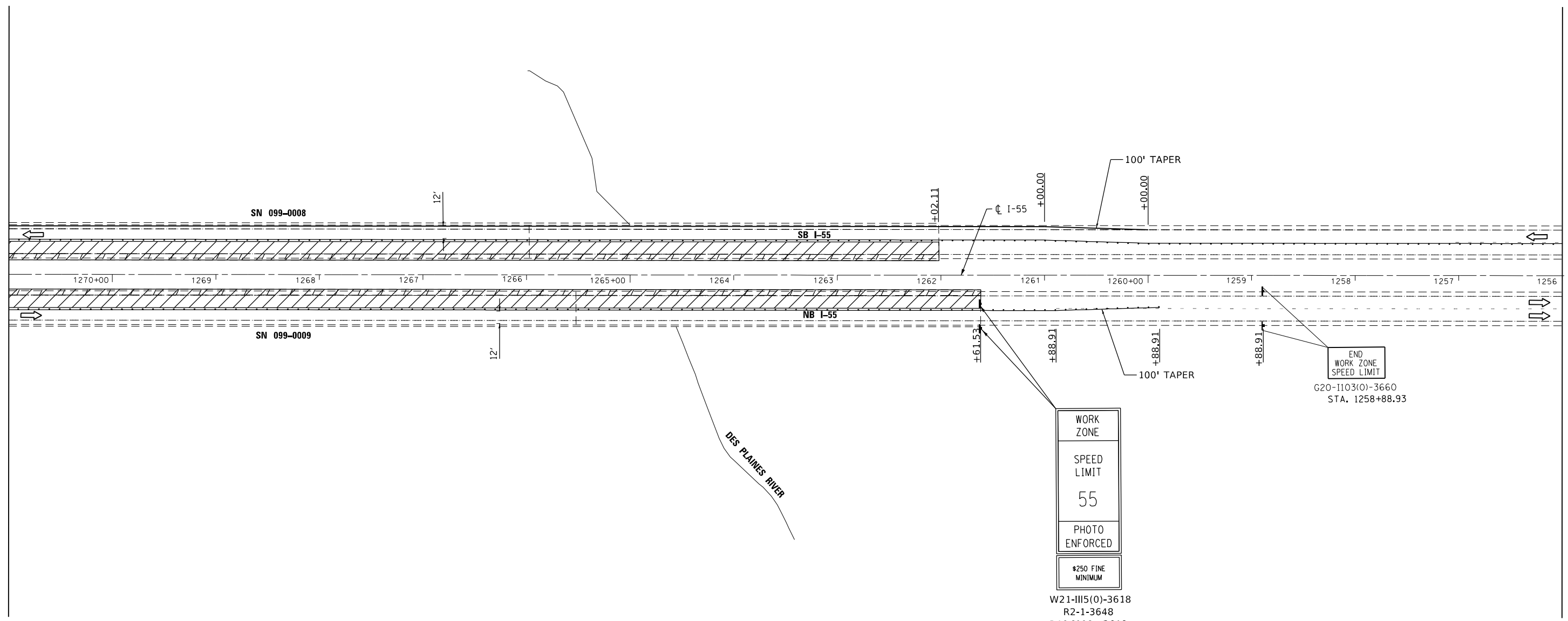
MAINTENANCE OF TRAFFIC PLAN - STAGE 2 & 4
STRUCTURE NO. 099-0008 & 099-0009

SCALE: 1"=50' SHEET 9 OF 14 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	FAI 55 23 BR	WILL	67	15
CONTRACT NO. 62V11				
ILLINOIS FED. AID PROJECT				

MATCHLINE STA. 1271+00.00

MATCHLINE STA. 1256+00.00



WORK ZONE

SPEED LIMIT

55






PHOTO ENFORCED

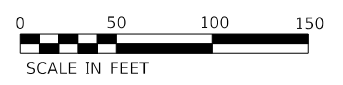
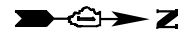
\$250 FINE MINIMUM

W21-III5(0)-3618
 R2-1-3648
 R10-1108p-3618
 R2-1106p-3618
 STA. 1261+61.53

END WORK ZONE SPEED LIMIT
 G20-1103(0)-3660
 STA. 1258+88.93

LEGEND

-  ARROW BOARD
-  DRUMS WITH STEADY BURN MONODIRECTIONAL LIGHT (50' C-C IN TAPERS AND 100' C-C IN TANGENT SECTIONS)
-  SIGN
-  WORK AREA
-  EXISTING PAVEMENT MARKING REMOVAL



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USER NAME = aasyed	DESIGNED - TPP	REVISED -
DRAWN - JO	REVISIONS -	
PLOT SCALE = 100,0037' / in.	CHECKED - OJ	REVISED -
PLOT DATE = 10/19/2023	DATE = 5/31/2023	REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

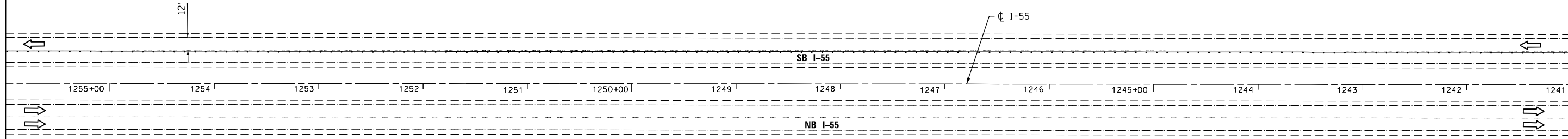
MAINTENANCE OF TRAFFIC PLAN - STAGE 2 & 4
 STRUCTURE NO. 099-0008 & 099-0009

SCALE: 1"=50' SHEET 11 OF 14 SHEETS STA. TO STA.






F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	FAI 55 23 BR	WILL	67	17
ILLINOIS FED. AID PROJECT			CONTRACT NO. 62V11	

MATCHLINE STA. 1256+00.00

I-55 STA. 1241+00.00



LEGEND

-  ARROW BOARD
-  DRUMS WITH STEADY BURN MONODIRECTIONAL LIGHT (50' C-C IN TAPERS AND 100' C-C IN TANGENT SECTIONS)
-  SIGN
-  WORK AREA
-  EXISTING PAVEMENT MARKING REMOVAL



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USER NAME = aasyed	DESIGNED - TPP	REVISED -
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PLOT SCALE = 100,0037' / in.	CHECKED - OJ	REVISED -
PLOT DATE = 10/19/2023	DATE - 5/31/2023	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

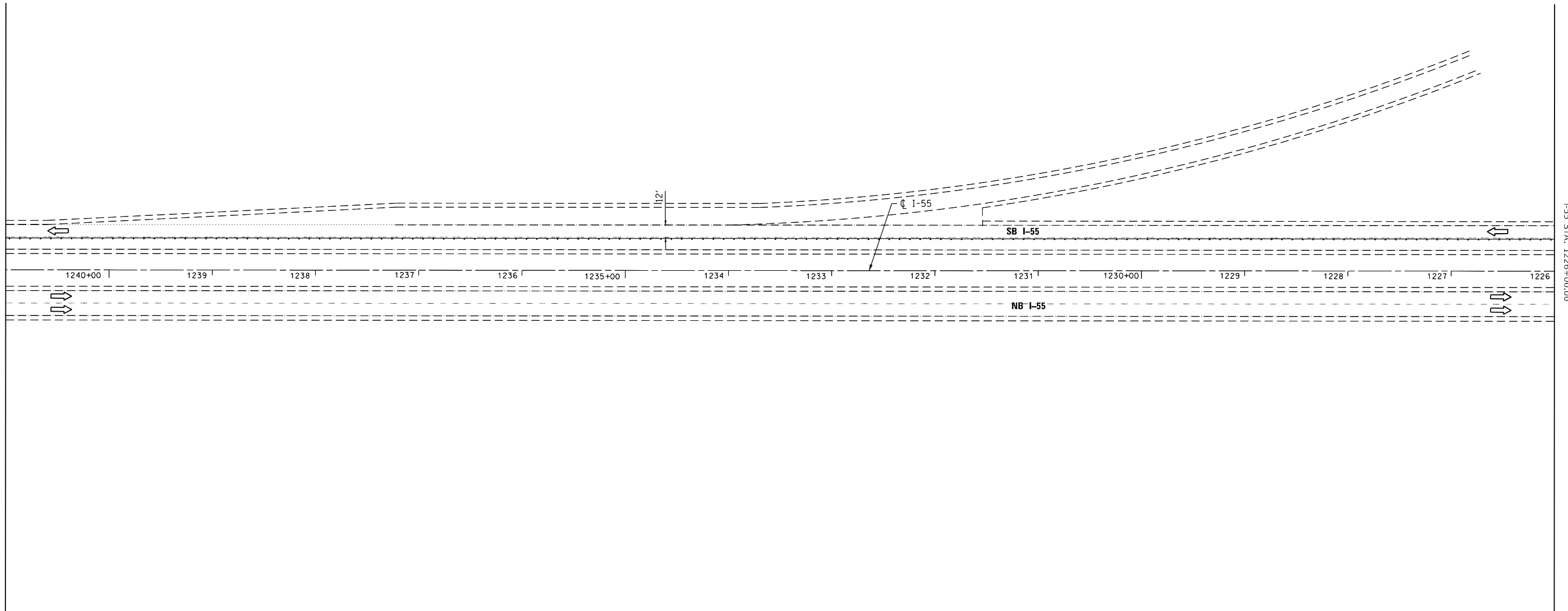
MAINTENANCE OF TRAFFIC PLAN STAGE 2 & 4
STRUCTURE NO. 099-0008 & 099-0009

SCALE: 1"=50' SHEET 12 OF 14 SHEETS STA. TO STA.






F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	FAI 55 23 BR	WILL	67	18
ILLINOIS FED. AID PROJECT			CONTRACT NO. 62V11	

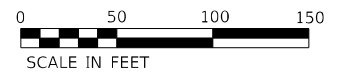
MATCHLINE STA. 1241+00.00

I-55 STA. 1226+00.00



LEGEND

-  ARROW BOARD
-  DRUMS WITH STEADY BURN MONODIRECTIONAL LIGHT
(50' C-C IN TAPERS AND 100' C-C IN TANGENT SECTIONS)
-  SIGN
-  WORK AREA
-  EXISTING PAVEMENT MARKING REMOVAL



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PLOT DATE = 10/19/2023	DATE - 5/31/2023	REVISED -

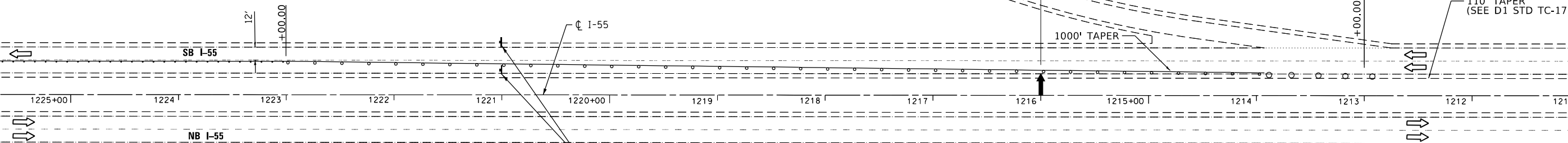
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**MAINTENANCE OF TRAFFIC PLAN STAGE 2 & 4
STRUCTURE NO. 099-0008 & 099-0009**

SCALE: 1"=50' SHEET 13 OF 14 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	FAI 55 23 BR	WILL	67	19
ILLINOIS FED. AID PROJECT			CONTRACT NO. 62V11	

MATCHLINE STA. 1226+00.00



SEE STANDARD 701400 "APPROACH TO LANE CLOSURE, FREEWAY/EXPRESSWAY" FOR ADVANCE SIGN PLACEMENT AND SEE DISTRICT 1 STANDARD TC-33 FOR ADVANCE TEMPORARY RUMBLE STRIPS AND ADDITIONAL TRAFFIC CONTROL

SEE STANDARD 701401 "LANE CLOSURE, FREEWAY/EXPRESSWAY" FOR SIGN PLACEMENT

WORK ZONE
SPEED LIMIT
45
PHOTO ENFORCED
\$250 FINE MINIMUM

W21-III(0)-3618
R2-1-3648
R10-1108p-3618
R2-1106p-3618
STA. 1221+00

LEGEND

- ARROW BOARD
- DRUMS WITH STEADY BURN MONODIRECTIONAL LIGHT (50' C-C IN TAPERS AND 100' C-C IN TANGENT SECTIONS)
- SIGN
- WORK AREA
- EXISTING PAVEMENT MARKING REMOVAL



MODEL: D:\p4\h... FILE NAME: W21-III(0)-3618-1100-01-CAD_Sheets\1221+00-16-SHT-40TRN114.dgn



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USER NAME = aasyed	DESIGNED - TPP	REVISED -
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PLOT SCALE = 100,0037' / in.	CHECKED - OJ	REVISED -
PLOT DATE = 10/19/2023	DATE = 5/31/2023	REVISED -

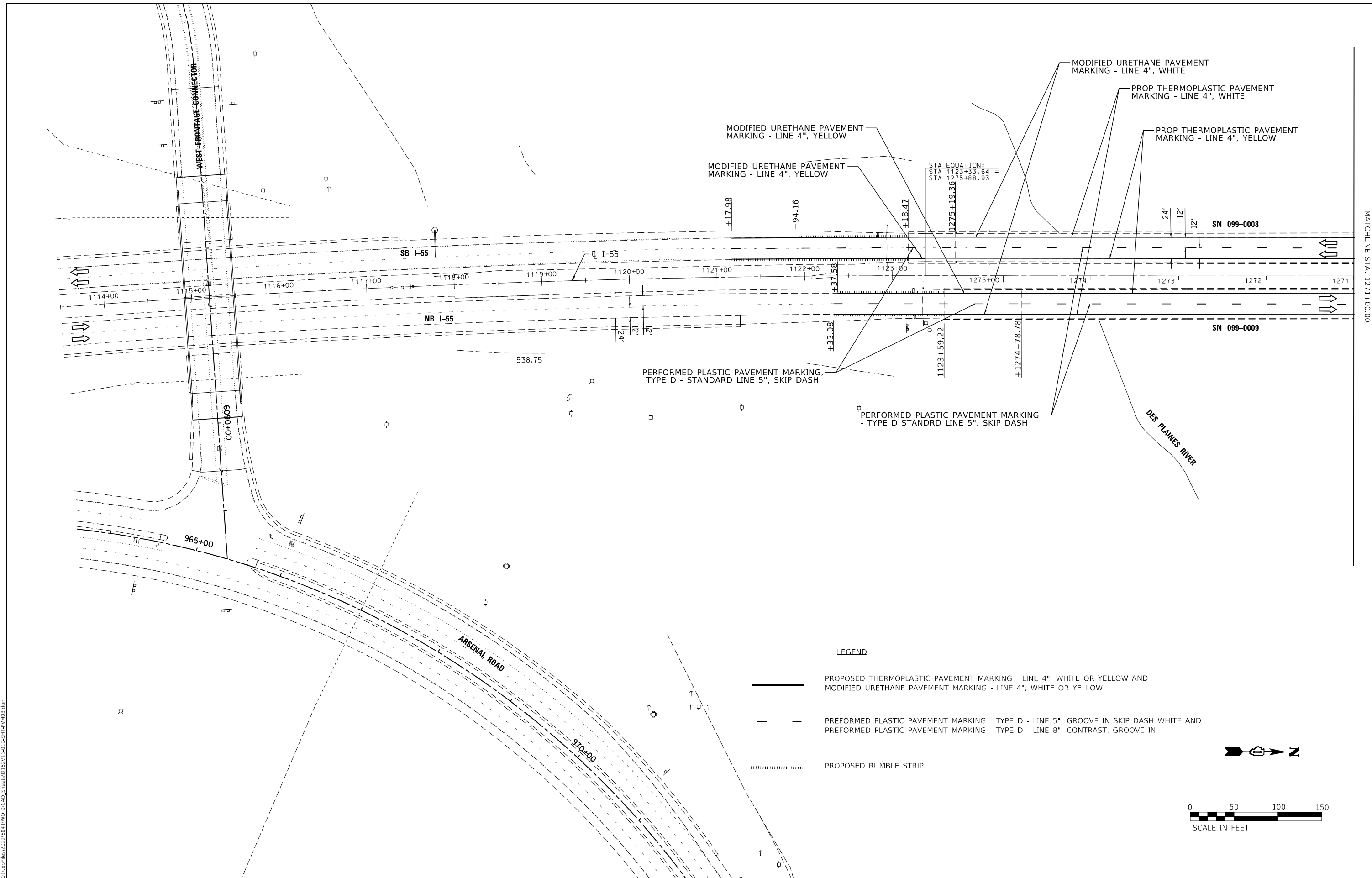
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

MAINTENANCE OF TRAFFIC PLAN STAGE 2 & 4
STRUCTURE NO. 099-0008 & 099-0009

SCALE: 1"=50' SHEET 14 OF 14 SHEETS STA. TO STA.




F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	FAI 55 23 BR	WILL	67	20
ILLINOIS FED. AID PROJECT			CONTRACT NO. 62V11	

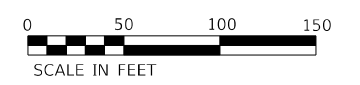
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MATCHLINE STA. 1271+00.00

LEGEND

-  PROPOSED THERMOPLASTIC PAVEMENT MARKING - LINE 4", WHITE OR YELLOW AND MODIFIED URETHANE PAVEMENT MARKING - LINE 4", WHITE OR YELLOW
-  PREFORMED PLASTIC PAVEMENT MARKING - TYPE D - LINE 5", GROOVE IN SKIP DASH WHITE AND PREFORMED PLASTIC PAVEMENT MARKING - TYPE D - LINE 8", CONTRAST, GROOVE IN
-  PROPOSED RUMBLE STRIP



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DRAWN - JO	REVISIONS	REVISED -
PLOT SCALE = 100,0037' / in.	CHECKED - OJ	REVISED -
PLOT DATE = 10/19/2023	DATE - 5/31/2023	REVISED -

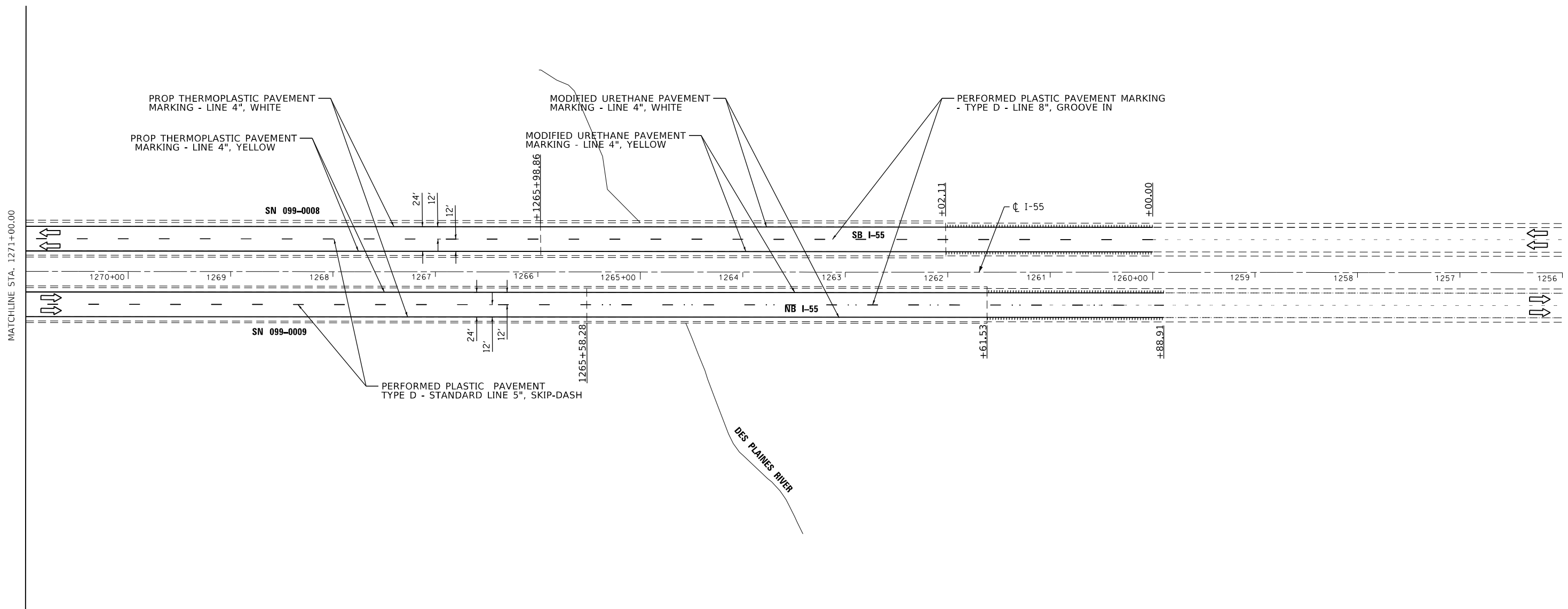
**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**PAVEMENT MARKING PLAN
 STRUCTURE NO. 099-0008 & 099-0009**

SCALE: 1"=50' SHEET 1 OF 2 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	FAI 55 23 BR	WILL	67	21
CONTRACT NO. 62V11				

ILLINOIS FED. AID PROJECT



LEGEND

- PROPOSED THERMOPLASTIC PAVEMENT MARKING - LINE 4", WHITE OR YELLOW AND MODIFIED URETHANE PAVEMENT MARKING - LINE 4", WHITE OR YELLOW
- PREFORMED PLASTIC PAVEMENT MARKING - TYPE D - LINE 5", GROOVE IN SKIP DASH WHITE AND PREFORMED PLASTIC PAVEMENT MARKING - TYPE D - LINE 8", CONTRAST, GROOVE IN
- PROPOSED RUMBLE STRIP



MODEL: D:\p\h\p\... FILE NAME: I:\031\05\Fiber\2023\6041\W0_8\CAD_Sheets\1262\11-020-SHT-P\M04.dwg



745 McClintock Drive
Suite 210
Burr Ridge, IL 60527
Ph. 773-881-4788
Fax: 773-239-3728

USER NAME = aasyed	DESIGNED - TPP	REVISED -
	DRAWN - JO	REVISED -
PLOT SCALE = 100,0037' / in.	CHECKED - OJ	REVISED -
PLOT DATE = 10/19/2023	DATE = 5/31/2023	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PAVEMENT MARKING PLAN
STRUCTURE NO. 099-0008 & 099-0009

SCALE: 1"=50' SHEET 2 OF 2 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	FAI 55 23 BR	WILL	67	22
ILLINOIS FED. AID PROJECT			CONTRACT NO. 62V11	

EXISTING STRUCTURE:

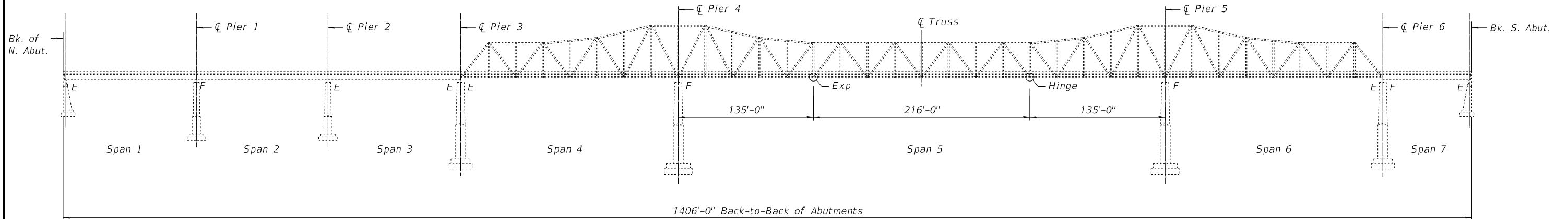
S.N. 099-0008 (S.B.) & S.N. 099-0009 (N.B.) built in 1956 as F.A. Rte. 77, Sec. 87B, 0-E-F-P Sta. 38+552.573. Each Structure consists of a three span cantilever truss with a simple span and a three span riveted girder approach on reinforced concrete spill thru abutments and reinforced concrete frame piers. The truss span and approach span decks were replaced in 1978. Truss link bearings at piers 3 and 6 on South bound structure were replaced in 1994. Expansion joints were replaced and truss grid deck was overlayed in 1997 Interim Repairs. In 1999, repairs included replacement of expansion joints, floor drain extensions, plugging of floor drains, thin polymer overlay, cover plate retrofits, Installation of slope protection system and pin & link bearing refurbishing. In 2005 structural steel repairs and expansion joint replacement was performed. In 2010 partial depth patching was performed on the overlay in the truss spans. In 2013 placed joints at piers 3 & 6 & panel point L13, deck repairs, parapet repairs, new deck drains truss spans. latex overlay on approach spans, HMA overlay truss spans and steel repairs.

Work shall be performed using stage construction, maintain single lane of traffic on both north and south bound.

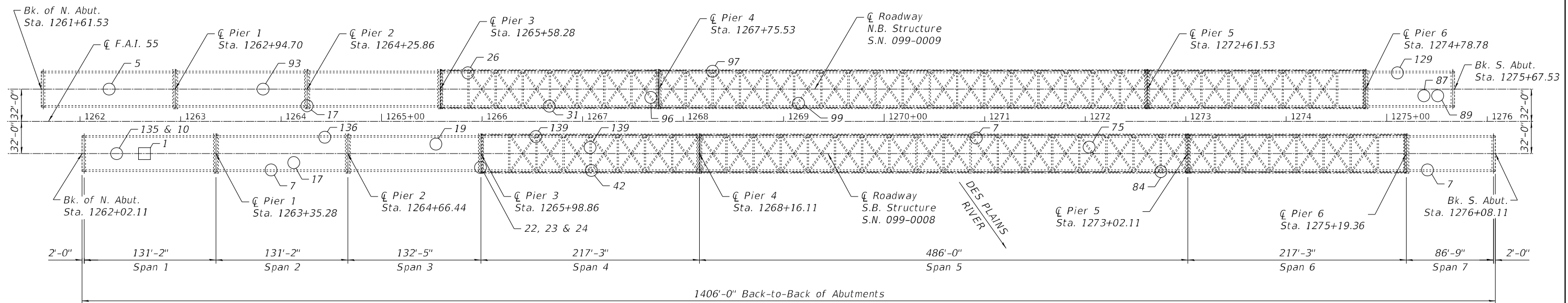
No salvage.

SCOPE OF WORK

- 1) Remove and replace HMA overlay spot repair waterproofing on truss spans with deck patching.
- 2) Drainage structure repair.
- 3) Joint seal replacement.
- 4) Perform steel repairs.
- 5) Protective coat to spans 1, 2, 3 & 7.



ELEVATION



LOADING HS-20

(Original Construction)

DESIGN SPECIFICATIONS

2002 AASHTO Standard Specifications for Highway Bridges, 17th Edition

DESIGN STRESSES

(New Work)

f'c = 4,000 psi (Superstructure)

fy = 60,000 psi (Reinforcement)

fy = 36,000 psi (Unless Otherwise Noted)



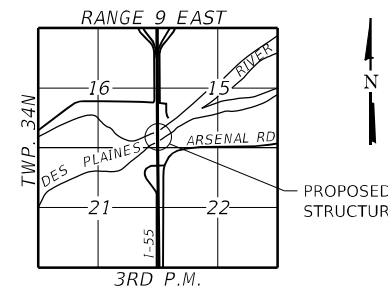
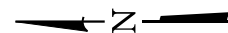
Signed: *[Signature]*
 Stephen E. Alsbury, S.E. IL Lic. No. 081-5261
 Expires: 11/30/2024

Date: Oct. 18, 2023

LEGEND

- Item from 2021 NBIS Report ##
- Item from 2023 NBIS Report ##

PLAN



LOCATION SKETCH

**GENERAL PLAN & ELEVATION
 I-55 OVER DES PLAINES RIVER**

F.A.I. RTE 55
 SECTION FAI 55 23 BR
 WILL COUNTY
 STATION 1268+84.82
 S.N. 099-0008 (S.B.)
 S.N. 099-0009 (N.B.)

FILE NAME: J:\2022\6041\WO_9\CAD_Sheets\0990008-62V11-001-GPE.dgn

ABNA DESIGN FIRM REG. 184.002117
 745 McClintock Drive Suite 210 Burr Ridge, IL 60527 Ph. 773-881-4788 Fax: 773-239-3728

USER NAME =	DESIGNED - SEA	REVISED -
PLOT SCALE = N.T.S.	CHECKED - SEA	REVISED -
PLOT DATE = 10/19/2023	DRAWN - MBJ	REVISED -
	CHECKED - SEA	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**GENERAL PLAN & ELEVATION
 STRUCTURE NO. 099-0008 (S.B.) & 099-0009 (N.B.)**

F.A.I. RTE. 55	SECTION FAI 55 23 BR	COUNTY WILL	TOTAL SHEETS 67	SHEET NO. 23
CONTRACT NO. 62V11				

GENERAL NOTES

Fasteners shall be ASTM F 3125 Grade A325 Type 1, mechanically galvanized bolts in painted areas. Bolts 7/8 in. diameter, holes 1 1/16 in. diameter, unless otherwise noted.

All structural steel shall be AASHTO M270 Grade 36.

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

Reinforcement bars designated (E) shall be epoxy coated.

Protective coat shall not be applied to surfaces to which Waterproofing Membrane System is applied.

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

The existing structural steel coating contains lead. The Contractor shall take appropriate precautions to deal with the presence of lead on this project.

Existing structural steel that will be in contact with new structural steel shall be cleaned and painted prior to erection as required by the GBSP "Cleaning and Painting Contact Surface Areas of Existing Steel Structures".

The Contractor shall remove and replace existing bolts and nuts in the truss satisfying the requirements for corroded bolts and nuts as stated in the special provision BOLT REPLACEMENT. Contractor shall allow for 50 bolt replacements over and above those shown in the plans, the location of which shall be determined by the Contractor to conform with the special provision and/or as determined by the Engineer.

Cost of removal and reinstallation of all members necessary to complete the work as detailed on the plans and as specified in the Special Provisions shall be included with Structural Steel Repair.

ID No. references indicate the deficiency item number listed in the 2021 and 2023 NBIS inspection reports.

STRUCTURAL STEEL REPAIR GENERAL NOTES

The Contractor shall field verify all proposed plate and angle dimensions and spacing of holes prior to ordering steel.

Repair plates, fill plates and repair angles may require field adjustments to fit actual as-built conditions. Cost included in Structural Steel Repair.

Repair plates, fill plates and repair angles have been sized per available existing plan information. Bolt layout for replacement of existing fasteners with new bolts in existing holes are also based on existing plan information. Dimensions shall be field verified to confirm.

Unless noted otherwise, the as-designed repair details do not require temporary support for structural members. If additional fasteners need to be removed beyond those shown, the Contractor shall submit a procedure for review and approved by the Engineer. If necessary, the Contractor shall provide temporary support for members due to the additional fastener removal.

Trimming of repair plates, fill plates and angles to accommodate existing fasteners not used in the repair shall be done by saw cutting or grinding. Minimum radius of 1" shall be maintained. Flame-cutting is not permitted. All cut edges shall be ground smooth to an ANSI 500 finish.

TOTAL BILL OF MATERIALS

ITEM	UNIT	SUPER	SUB	TOTAL
Polymerized Hot-Mix Asphalt Surface Course, Stone Matrix Asphalt, 9.5, Mix "F", N80	Ton	560		560
Concrete Removal	Cu. Yd.	0.4		0.4
Protective Coat	Sq. Yd.	3905		3905
Bolt Replacement	Each	119		119
Cleaning and Painting Bearings	Each	6		6
Waterproofing Membrane System (Special)	Sq. Yd.	1579		1579
Structural Steel Repair	Pound	16990		16990
Hot-Mix Asphalt Surface Removal (Deck)	Sq. Yd.	6648		6648
Bonded Preformed Joint Seal 2 3/4"	Foot	594		594
Deck Slab Repair (Partial)	Sq. Yd.	243		243
Drainage Structure Repair	Each	3		3
Polymer Concrete	Cu. FT	31.2		31.2

CURRENT RATINGS ON FILE FOR EXISTING STRUCTURES

Inventory: HS 18.3
 Operating: HS 30.5
 Live Load Restrictions: None

INDEX OF SHEETS

- S-1 General Plan & Elevation
- S-2 General Notes, Bill of Material & Index of Sheets
- S-3 Stage 1 Construction Staging SN 099-0009 (NB)
- S-4 Stage 2 Construction Staging SN 099-0009 (NB)
- S-5 Stage 3 Construction Staging SN 099-0008 (SB)
- S-6 Stage 4 Construction Staging SN 099-0008 (SB)
- S-7 Typical Sections - Approach Spans
- S-8 Typical Sections - Truss Spans
- S-9 Deck Repair Plan 1 - SN 099-0008 (SB)
- S-10 Deck Repair Plan 2 - SN 099-0008 (SB)
- S-11 Deck Repair Plan 3 - SN 099-0008 (SB)
- S-12 Deck Repair Plan 1 - SN 099-0009 (NB)
- S-13 Deck Repair Plan 2 - SN 099-0009 (NB)
- S-14 Deck Repair Plan 3 - SN 099-0009 (NB)
- S-15 Joint Seal Replacement
- S-16 Drainage Structure Repair Details
- S-17 General Repair Location - SN 099-0008 (SB)
- S-18 General Repair Location - SN 099-0009 (NB)
- S-19 Table of Repairs - SN 099-0008 (SB)
- S-20 Table of Repairs - SN 099-0009 (NB)
- S-21 Framing Plan 1 - SN 099-0008 (SB)
- S-22 Framing Plan 2 - SN 099-0008 (SB)
- S-23 Framing Plan 3 - SN 099-0008 (SB)
- S-24 Framing Plan 4 - SN 099-0008 (SB)
- S-25 Framing Plan 5 - SN 099-0008 (SB)
- S-26 Framing Plan 1 - SN 099-0009 (NB)
- S-27 Framing Plan 2 - SN 099-0009 (NB)
- S-28 Framing Plan 3 - SN 099-0009 (NB)
- S-29 Framing Plan 4 - SN 099-0009 (NB)
- S-30 Framing Plan 5 - SN 099-0009 (NB)
- S-31 Repair Details 1
- S-32 Repair Details 2
- S-33 Repair Details 3
- S-34 Repair Details 4
- S-35 Repair Details 5
- S-36 Repair Details 6
- S-37 Repair Details 7
- S-38 Repair Details 8

STRUCTURAL STEEL REPAIR PROCEDURES

The Contractor will be allowed to remove rivets and replace with temporary high-strength bolts in advance of repair plate and/or angle installation. Flame cutting for rivet removal is not allowed.

Contractor shall install repair plates, fill plates and angles one at a time at each steel repair location.

For each individual repair plate or angle, the Contractor may remove all rivets to be replaced at the same time to facilitate fit-up and match-marking of holes.

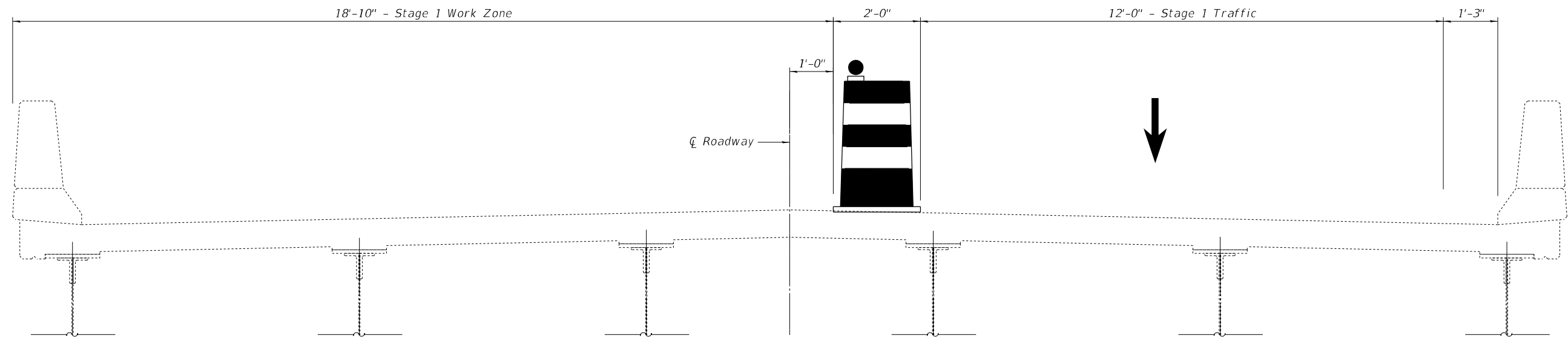
Bolt holes will not be left open overnight. The Contractor shall complete the installation of individual plates or angles at the end of each day.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	FAI 55 23 BR	WILL	67	24
CONTRACT NO. 62V11				
ILLINOIS FED. AID PROJECT: NHPP-ZVE5(352)				

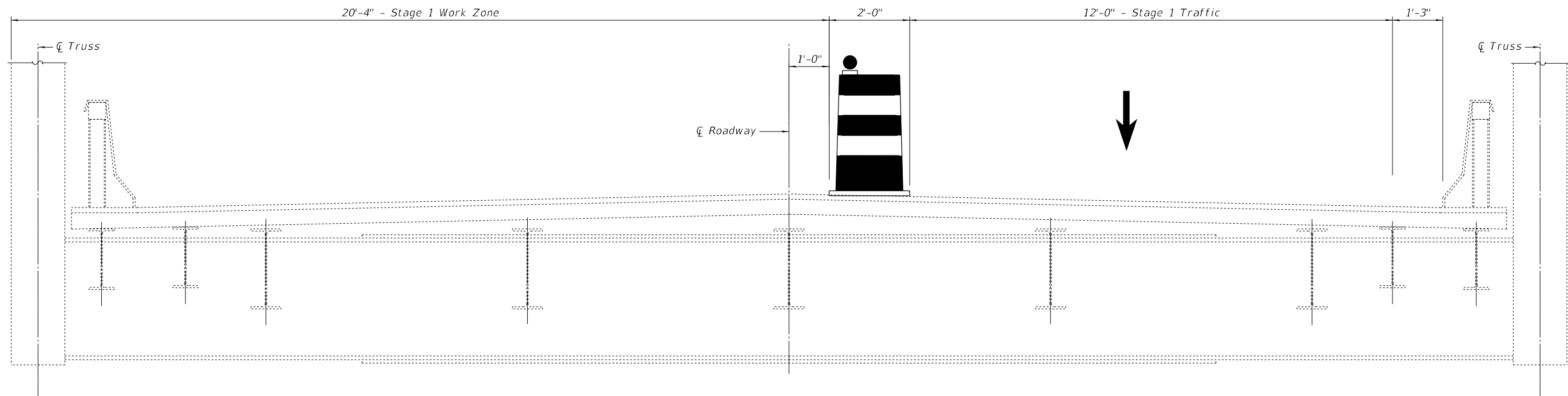


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PLOT DATE = 12/1/2023	CHECKED - SEA	REVISED -



STAGE 1 THRU APPROACH SPANS
Spans 1, 2, 3 and 7 (Looking South)



STAGE 1 THRU TRUSS SPANS
Spans 4, 5 and 6 (Looking South)

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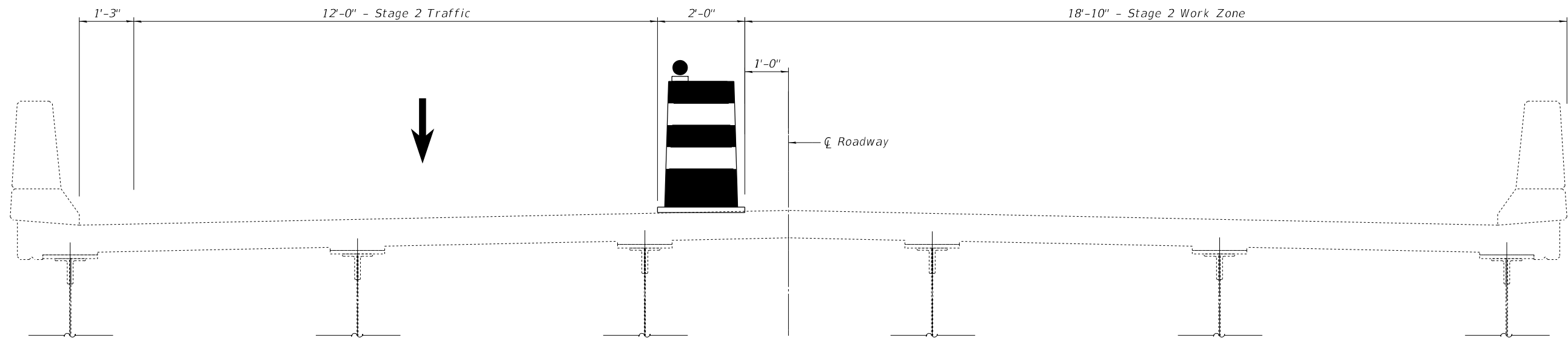
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

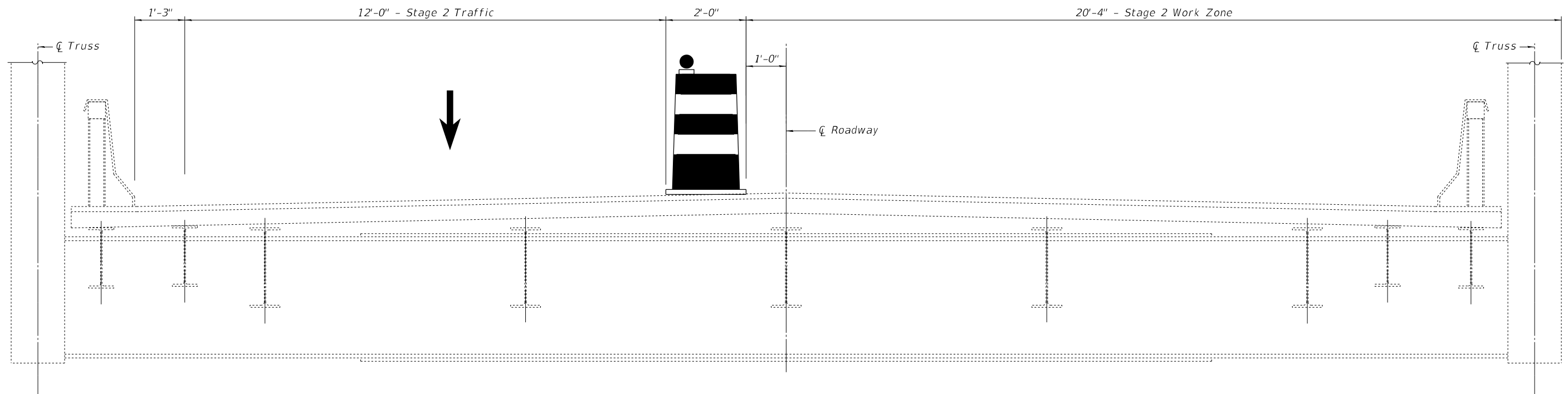
**STAGE 1 CONSTRUCTION STAGING
STRUCTURE NO. 099-0009 (N.B.)**

SHEET S-3 OF S-38 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	FAI 55 23 BR	WILL	67	25
CONTRACT NO. 62V11				
ILLINOIS FED. AID PROJECT: NHPP-ZVE5(352)				



STAGE 2 THRU APPROACH SPANS
Spans 1, 2, 3 and 7 (Looking South)



STAGE 2 THRU TRUSS SPANS
Spans 4, 5 and 6 (Looking South)

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Suite 210
Burr Ridge, IL 60527
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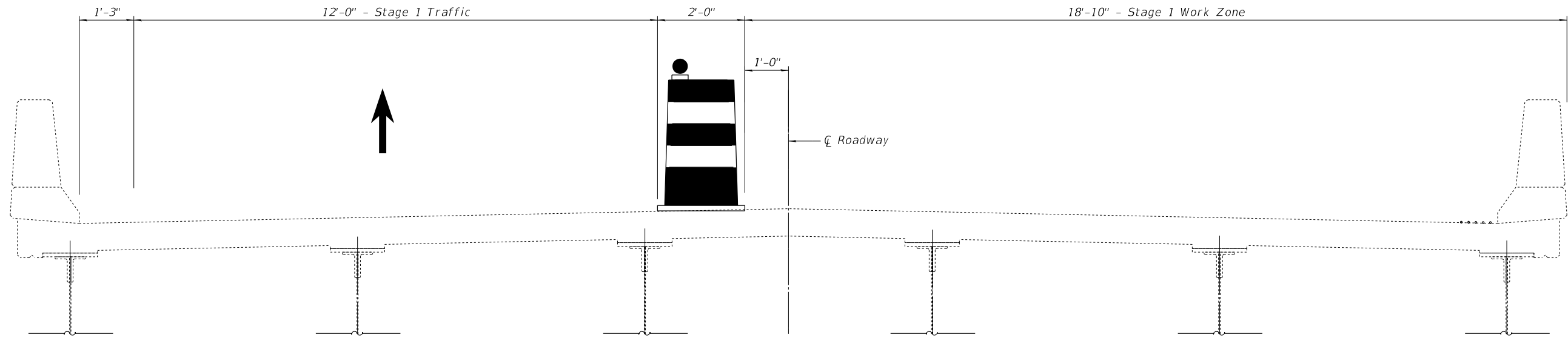
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PLOT DATE = 10/19/2023	CHECKED - SEA	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

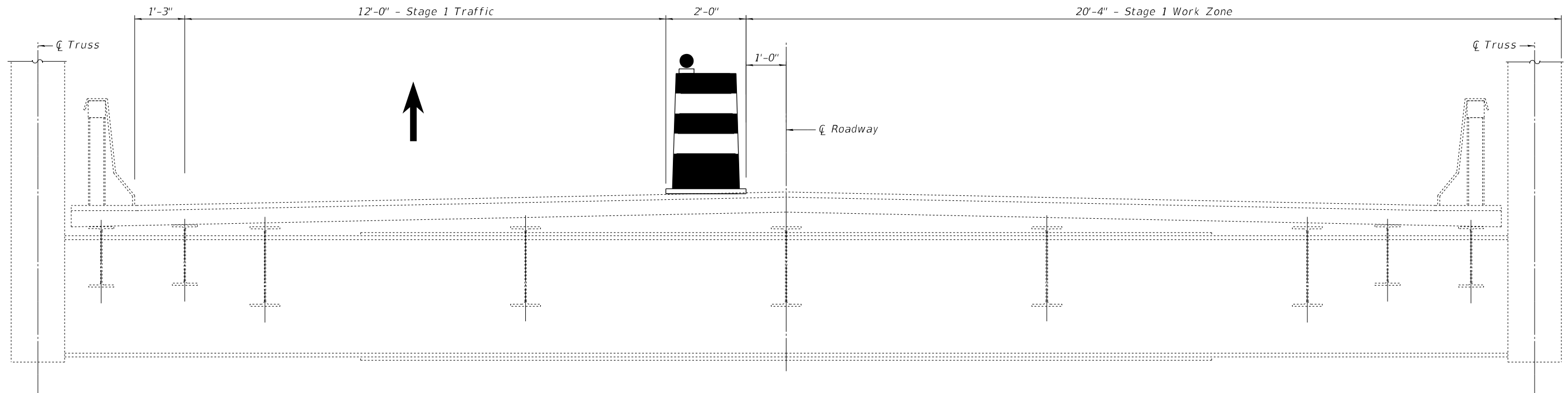
**STAGE 2 CONSTRUCTION STAGING
STRUCTURE NO. 099-0009 (N.B.)**

SHEET S-4 OF S-38 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	FAI 55 23 BR	WILL	67	26
CONTRACT NO. 62V11				
ILLINOIS FED. AID PROJECT: NHPP-ZVE5(352)				



STAGE 3 THRU APPROACH SPANS
Spans 1, 2, 3 and 7 (Looking South)



STAGE 3 THRU TRUSS SPANS
Spans 4, 5 and 6 (Looking South)

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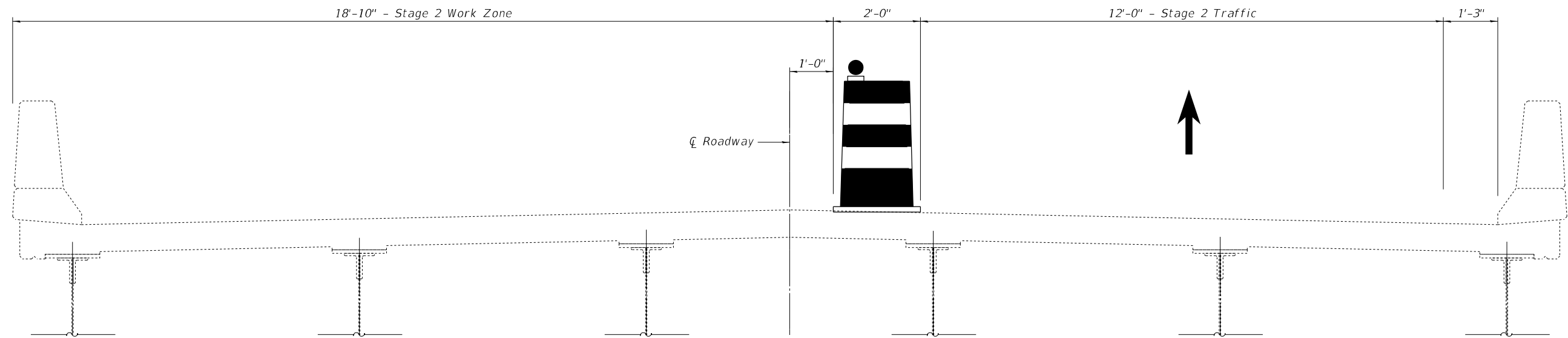
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

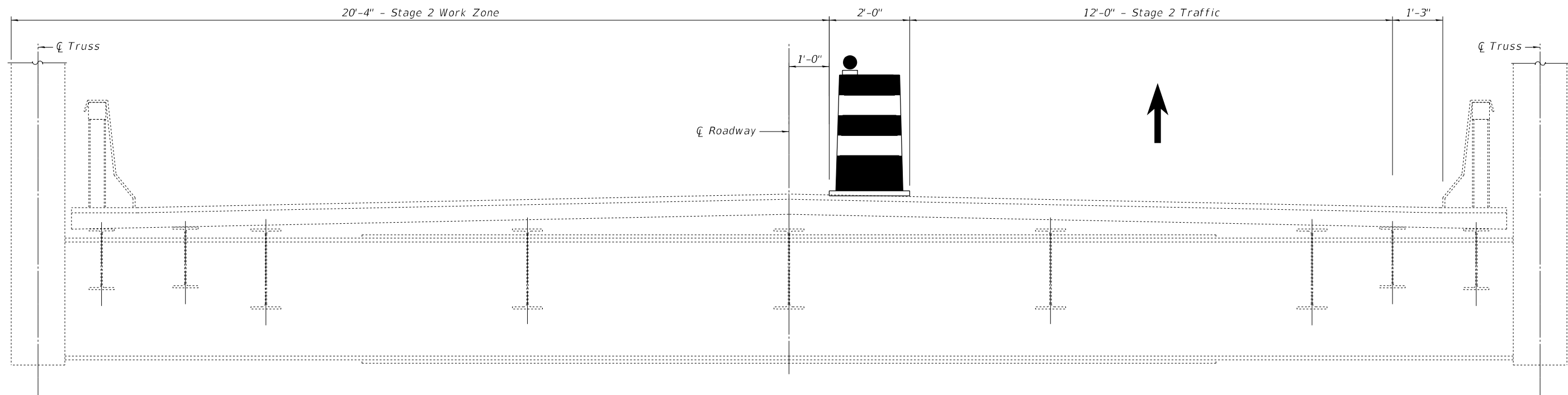
**STAGE 3 CONSTRUCTION STAGING
STRUCTURE NO. 099-0008 (S.B.)**

SHEET S-5 OF S-38 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	FAI 55 23 BR	WILL	67	27
CONTRACT NO. 62V11				
ILLINOIS FED. AID PROJECT: NHPP-ZVE5(352)				



STAGE 2 THRU APPROACH SPANS
Spans 1, 2, 3 and 7 (Looking South)



STAGE 4 THRU TRUSS SPANS
Spans 4, 5 and 6 (Looking South)

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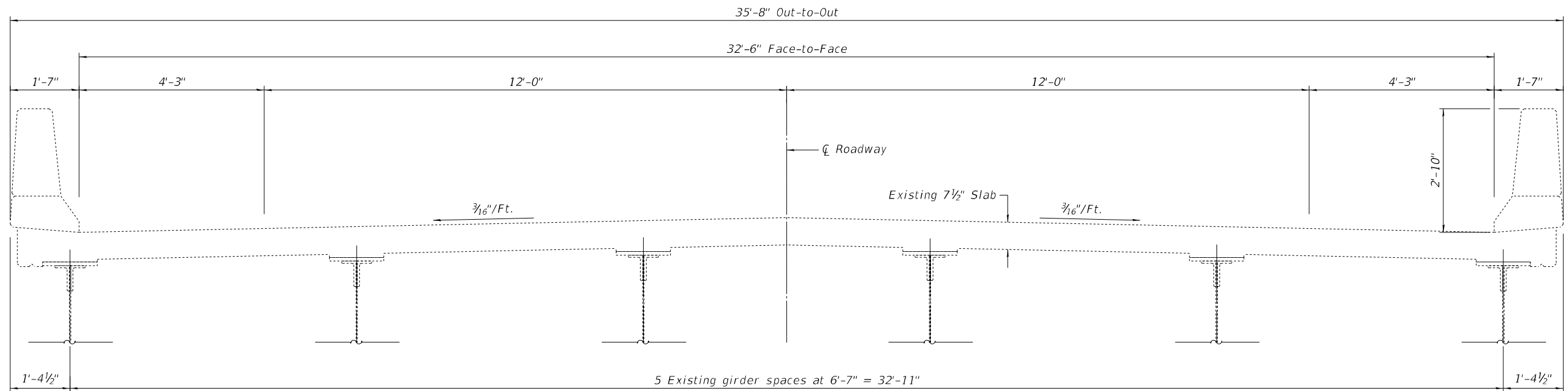
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

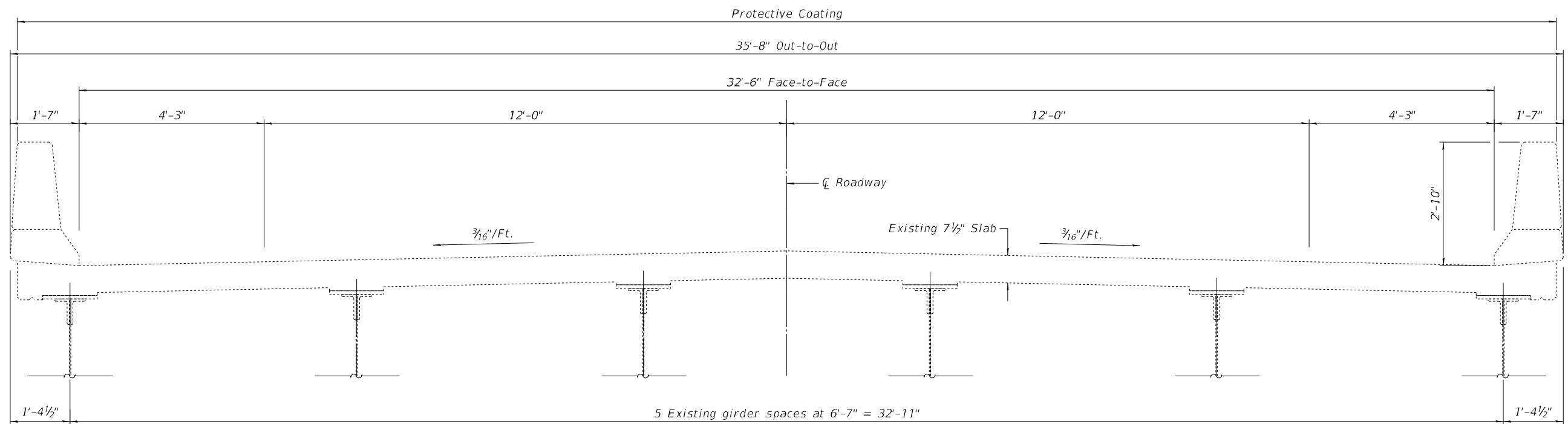
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STRUCTURE NO. 099-0008 (S.B.)**

SHEET S-6 OF S-38 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	FAI 55 23 BR	WILL	67	28
CONTRACT NO. 62V11				
ILLINOIS FED. AID PROJECT: NHPP-ZVE5(352)				



EXISTING DECK CROSS SECTION THRU APPROACH SPANS
Spans 1, 2, 3 and 7 (Looking South)



PROPOSED DECK CROSS SECTION THRU APPROACH SPANS
Spans 1, 2, 3 and 7 (Looking South)

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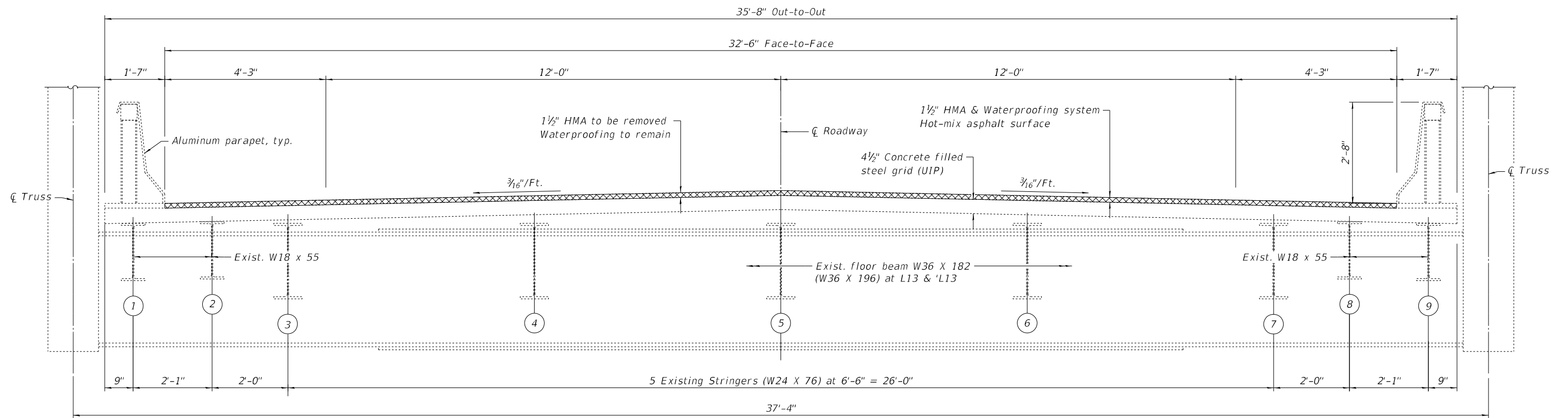
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**TYPICAL SECTIONS - APPROACH SPANS
STRUCTURE NO. 099-0008 (S.B.) & 099-0009 (N.B.)**

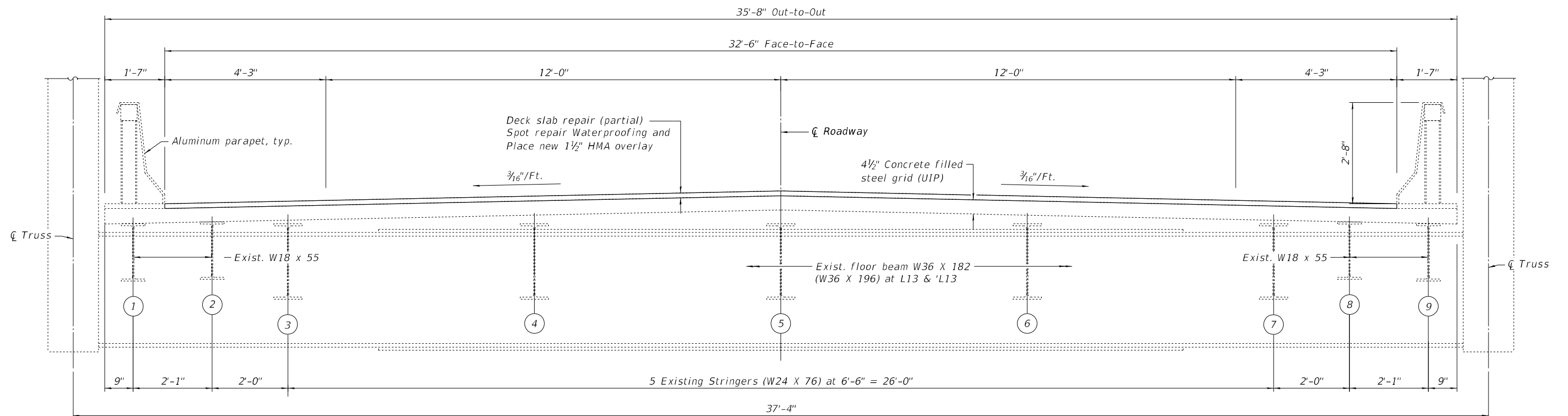
SHEET S-7 OF S-38 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	FAI 55 23 BR	WILL	67	29
CONTRACT NO. 62V11				
ILLINOIS FED. AID PROJECT: NHPP-ZVE5(352)				



EXISTING DECK CROSS SECTION THRU TRUSS SPANS
Spans 4, 5 and 6 (Looking South)

LEGEND
 Removal Area



PROPOSED DECK CROSS SECTION THRU TRUSS SPANS
Spans 4, 5 and 6 (Looking South)

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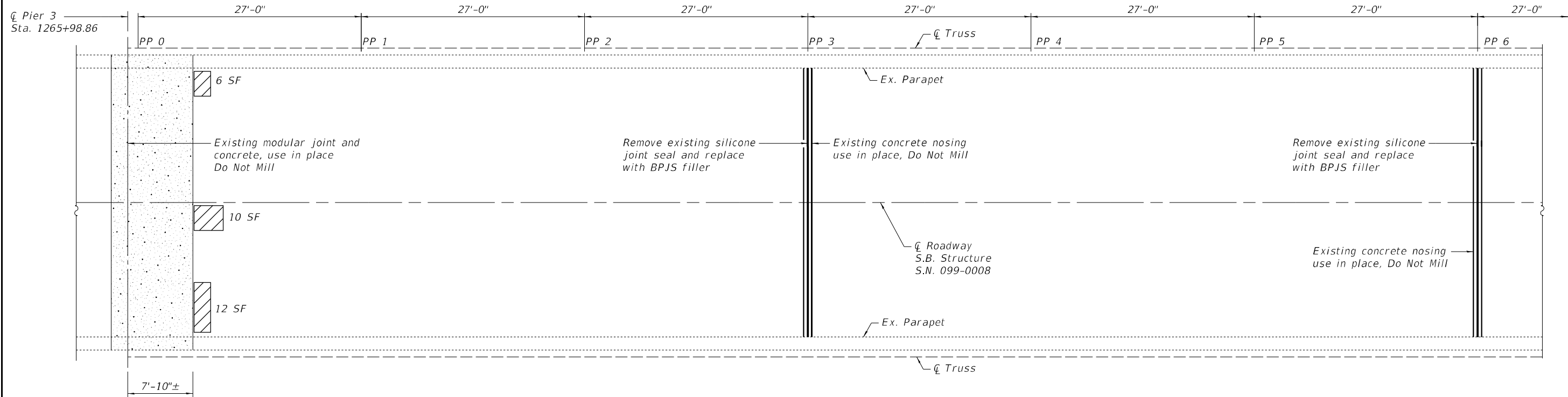
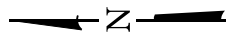
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**TYPICAL SECTIONS - TRUSS SPANS
STRUCTURE NO. 099-0008 (S.B.) & 099-0009 (N.B.)**

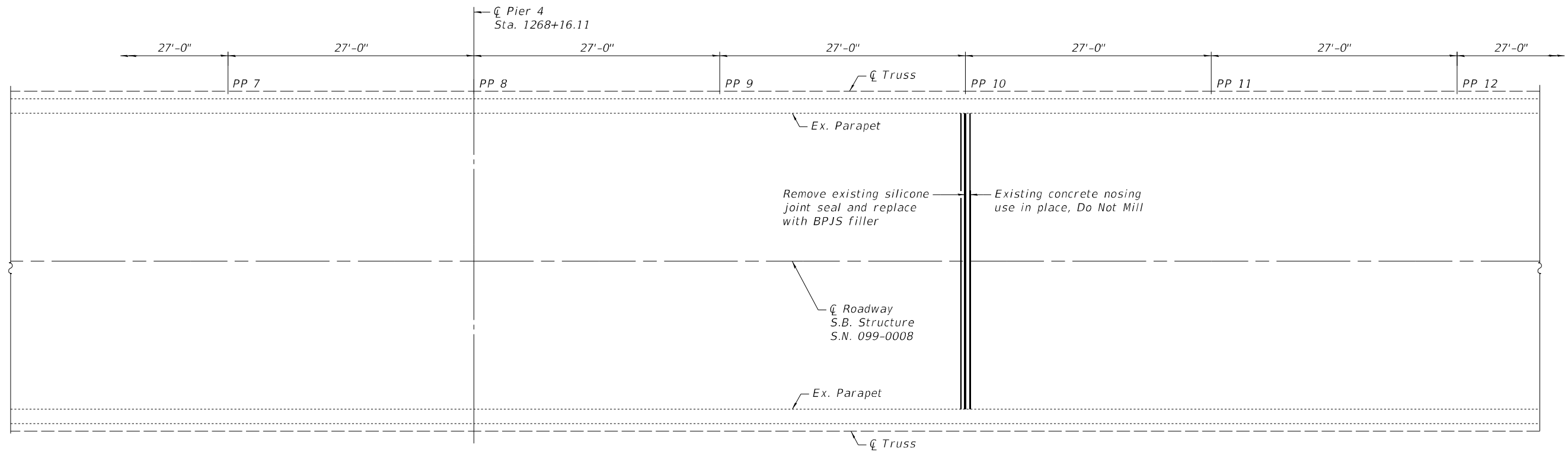
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55	FAI 55 23 BR	WILL	67	30
CONTRACT NO. 62V11				
ILLINOIS FED. AID PROJECT: NHPP-ZVE5(352)				



DECK REPAIR PLAN - SPAN 4

LEGEND

Deck Slab Repair (Partial)



DECK REPAIR PLAN - SPAN 4 & 5

BILL OF MATERIAL

Item	Unit	Total
Bonded Preformed Joint Seal, 2 3/4"	Lin. Ft.	99
Deck Slab Repair (Partial)	Sq. Yd.	4.0

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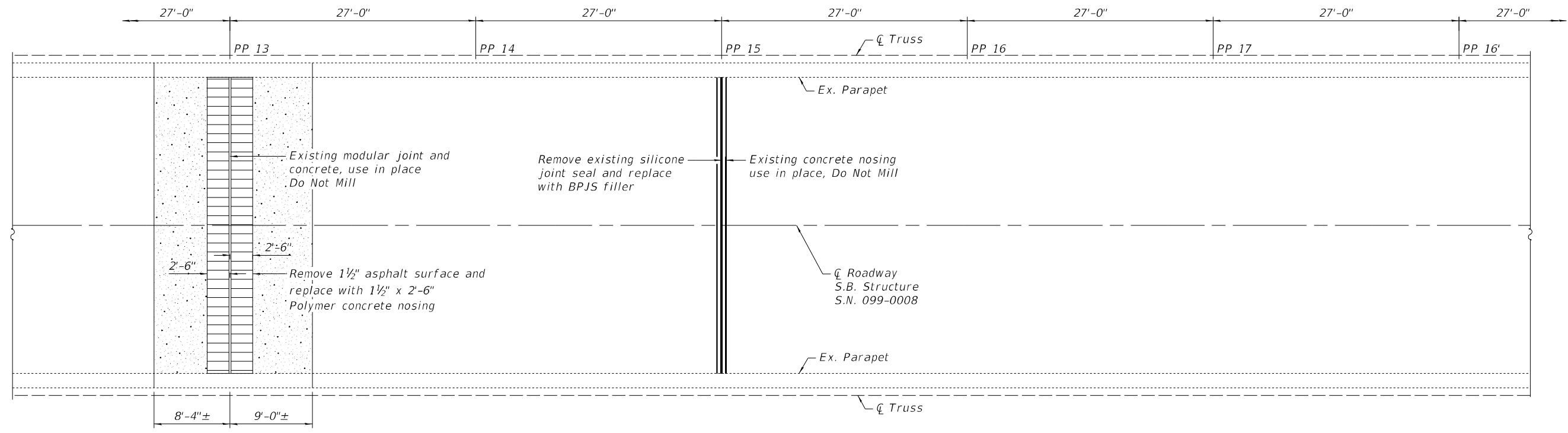
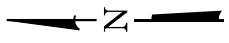
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**DECK REPAIR PLAN 1
STRUCTURE NO. 099-0008 (S.B.)**

SHEET S-9 OF S-38 SHEETS

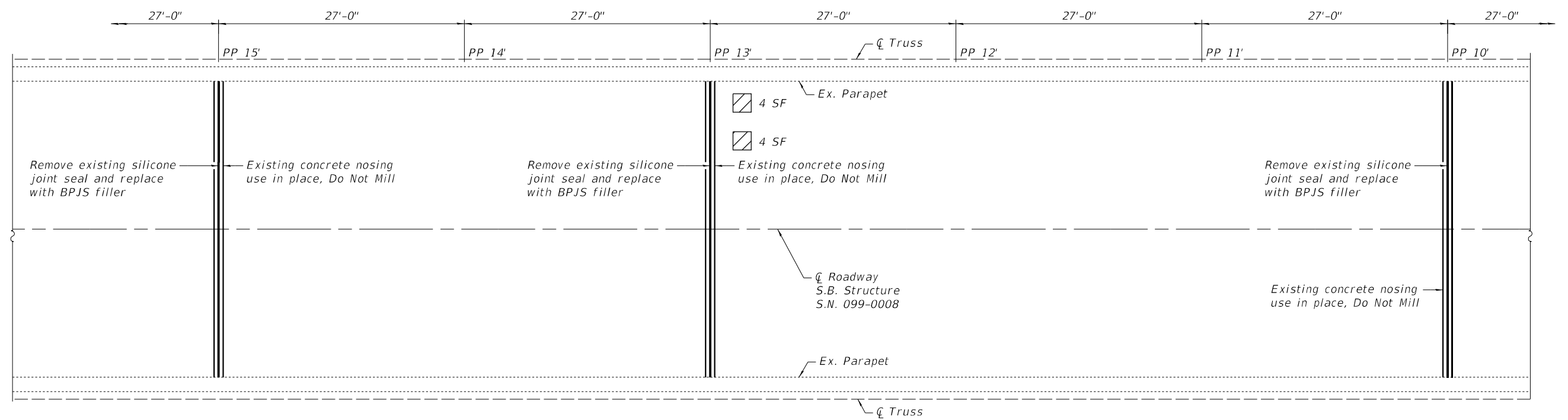
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55	FAI 55 23 BR	WILL	67	31
CONTRACT NO. 62V11				
ILLINOIS FED. AID PROJECT: NHPP-ZVE5(352)				



DECK REPAIR PLAN - SPAN 5

LEGEND

- Polymer Concrete
- Deck Slab Repair (Partial)



DECK REPAIR PLAN - SPAN 5

BILL OF MATERIAL

Item	Unit	Total
Bonded Preformed Joint Seal, 2 3/4"	Lin. Ft.	132
Polymer Concrete	Cu. Ft.	20.3
Deck Slab Repair (Partial)	Sq. Yd.	1.0

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Fax: 773-239-3728

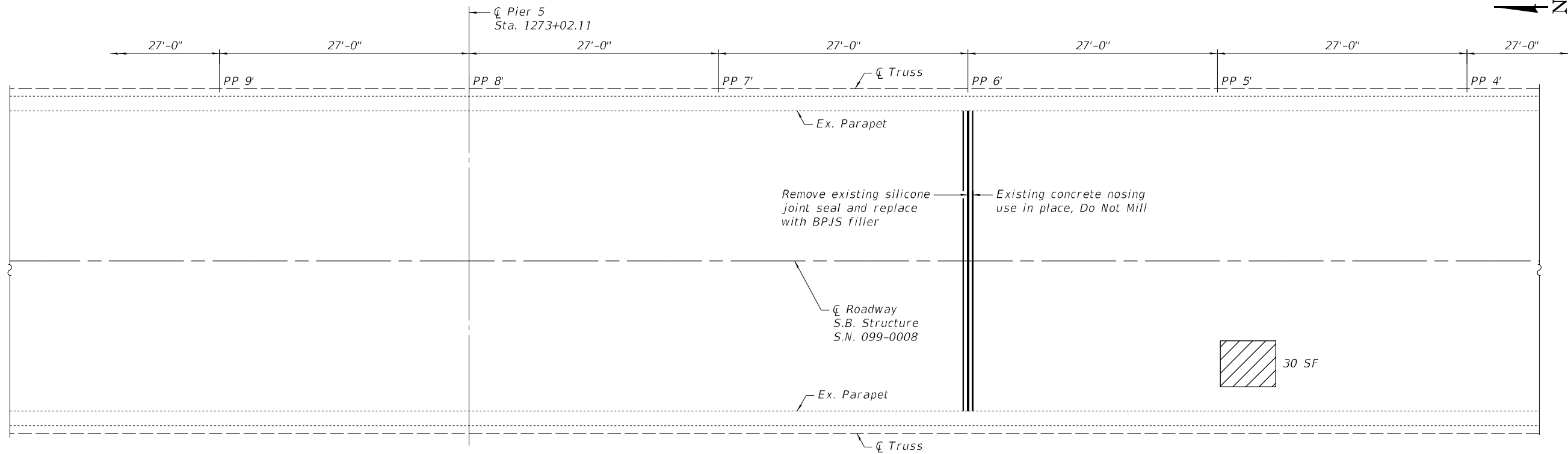
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PLOT DATE = 10/19/2023	CHECKED - SEA	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**DECK REPAIR PLAN 2
STRUCTURE NO. 099-0008 (S.B.)**

SHEET S-10 OF S-38 SHEETS

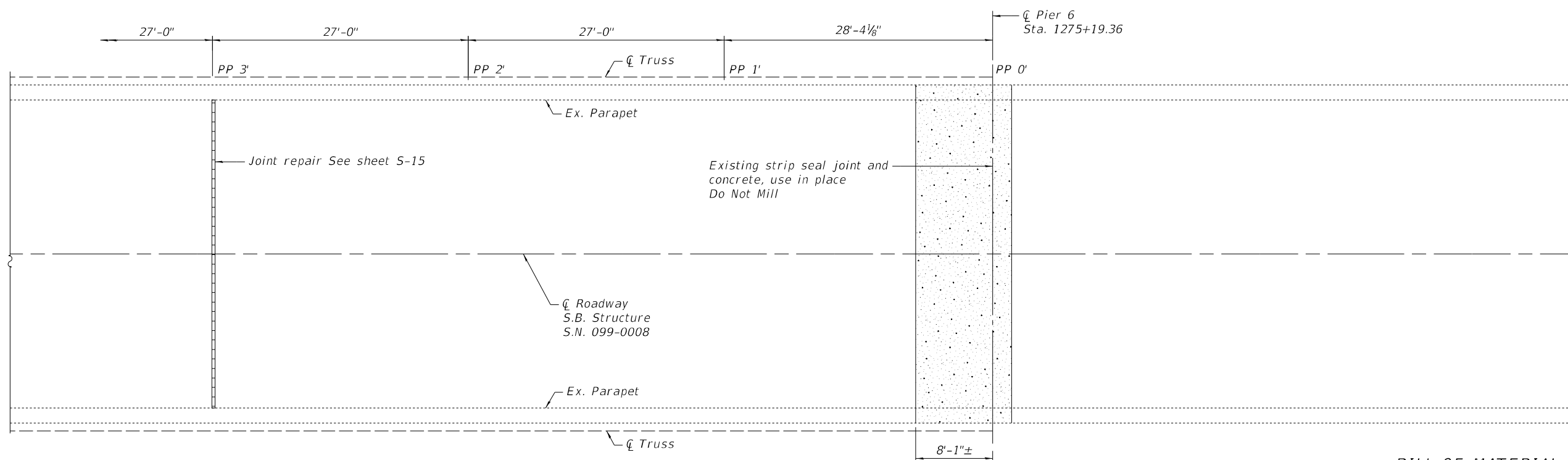
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55	FAI 55 23 BR	WILL	67	32
CONTRACT NO. 62V11				
ILLINOIS FED. AID PROJECT: NHPP-ZVE5(352)				



DECK REPAIR PLAN - SPAN 5 & 6

LEGEND

- Polymer Concrete
- Deck Slab Repair (Partial)



DECK REPAIR PLAN - SPAN 6

BILL OF MATERIAL

Item	Unit	Total
Bonded Preformed Joint Seal, 2 3/4"	Lin. Ft.	66
Polymer Concrete	Cu. Ft.	10.9
Deck Slab Repair (Partial)	Sq. Yd.	3.0
Concrete Removal	Cu. Yd.	0.4

FILE NAME: J:\2022\6041\WO_9\CAD_Sheets\0990008-62V11-011-SB_DECK PLAN03.dgn



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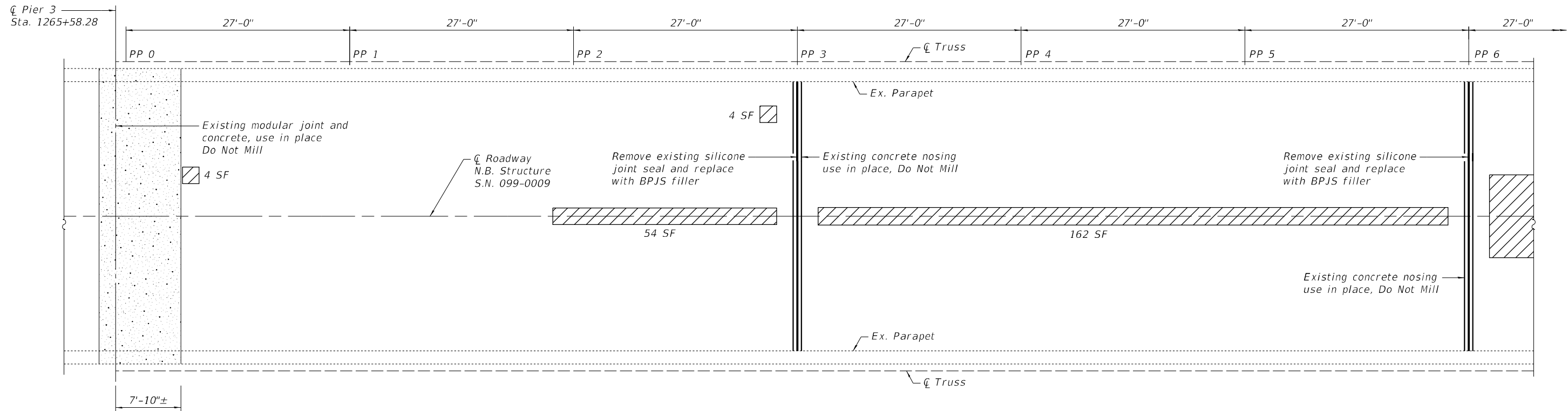
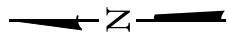
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PLOT DATE = 10/19/2023	CHECKED - SEA	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**DECK REPAIR PLAN 3
STRUCTURE NO. 099-0008 (S.B.)**

SHEET S-11 OF S-38 SHEETS

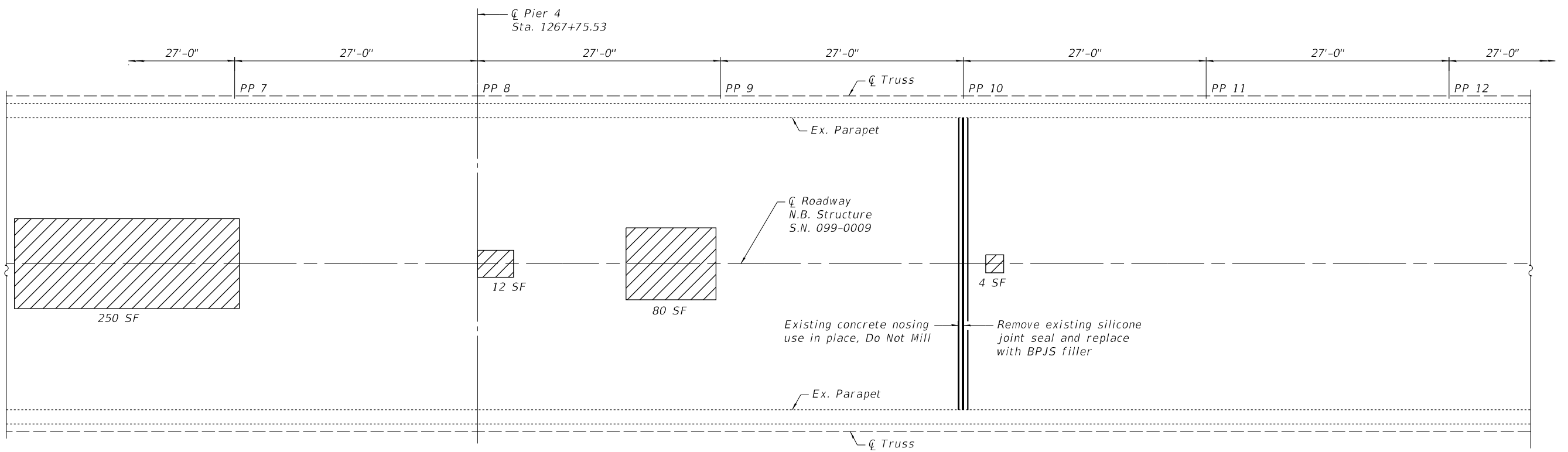
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55	FAI 55 23 BR	WILL	67	33
CONTRACT NO. 62V11				
ILLINOIS FED. AID PROJECT: NHPP-ZVE5(352)				



PLAN - SPAN 4

LEGEND

Deck Slab Repair (Partial)



PLAN - SPAN 4 & 5

BILL OF MATERIAL

Item	Unit	Total
Bonded Preformed Joint Seal, 2 3/4"	Lin. Ft.	99
Deck Slab Repair (Partial)	Sq. Yd.	64

FILE NAME: J:\2022\6041\WO_9\CAD_Sheets\0990008-62V11-012-NB_DECK PLAN01.dgn



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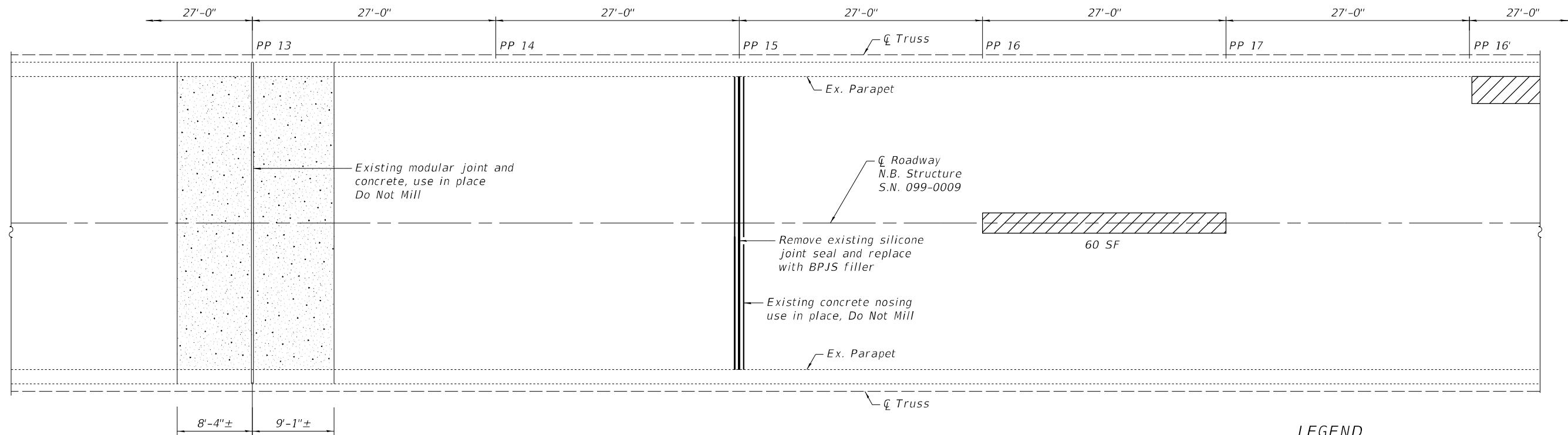
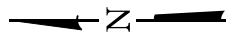
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	CHECKED - SEA	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DECK REPAIR PLAN 1
STRUCTURE NO. 099-0009 (N.B.)

SHEET S-12 OF S-38 SHEETS

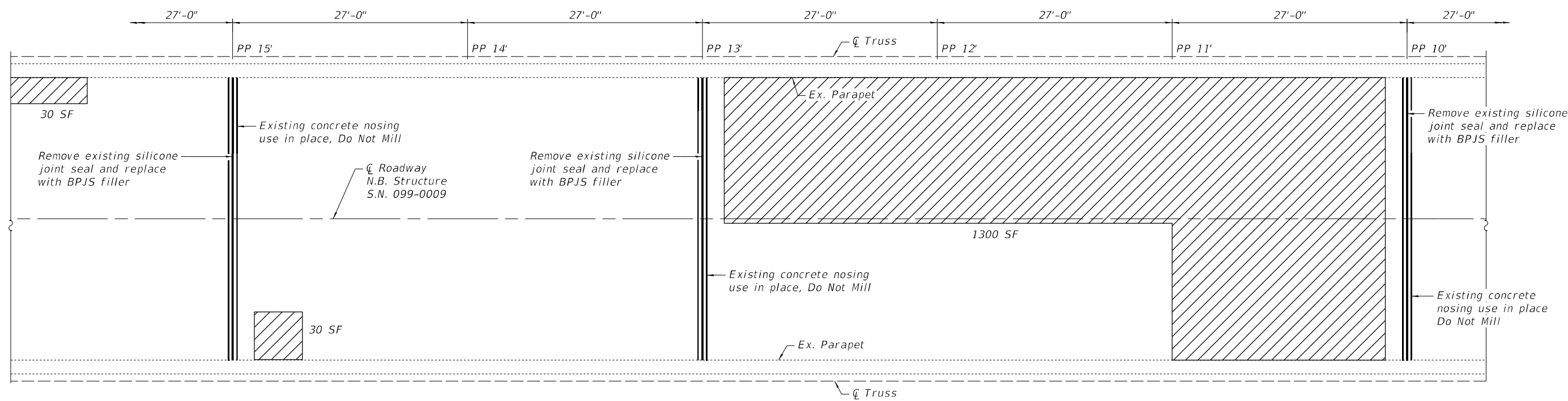
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55	FAI 55 23 BR	WILL	67	34
CONTRACT NO. 62V11				
ILLINOIS FED. AID PROJECT: NHPP-2VE5(352)				



PLAN - SPAN 5

LEGEND

Deck Slab Repair (Partial)



PLAN - SPAN 5

BILL OF MATERIAL

Item	Unit	Total
Bonded Preformed Joint Seal, 2 3/4"	Lin. Ft.	132
Deck Slab Repair (Partial)	Sq. Yd.	158

FILE NAME: J:\2022\6041\WO_9\CAD_Sheets\0990008-62V11-013-NB_DECK_PLAN02.dgn



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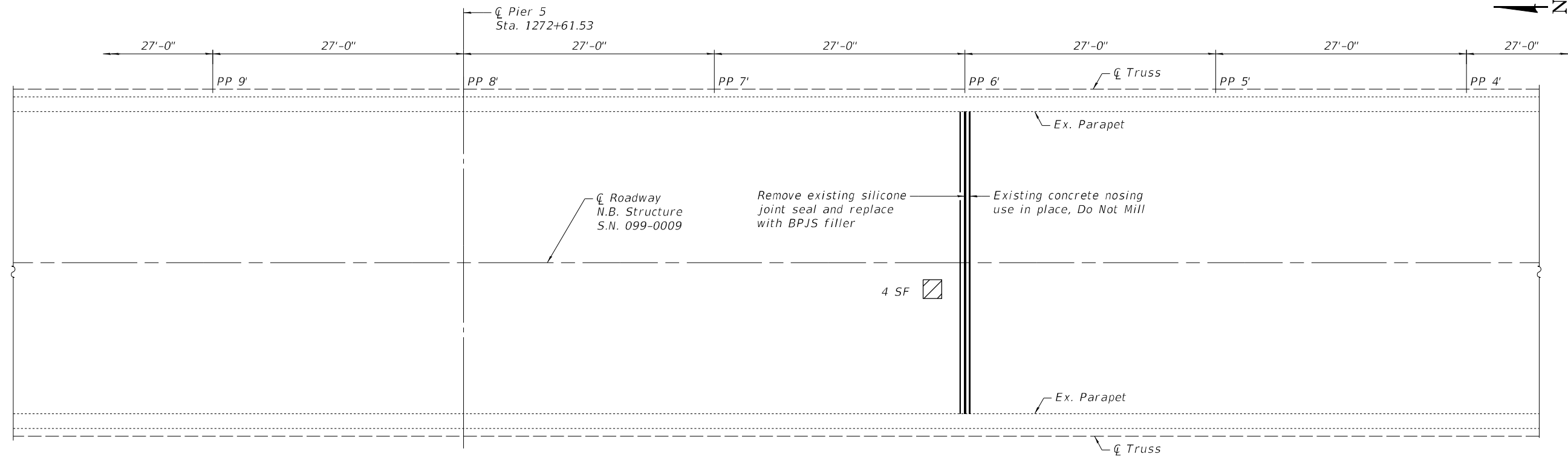
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PLOT DATE = 10/19/2023	CHECKED - SEA	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**DECK REPAIR PLAN 2
STRUCTURE NO. 099-0009 (N.B.)**

SHEET S-13 OF S-38 SHEETS

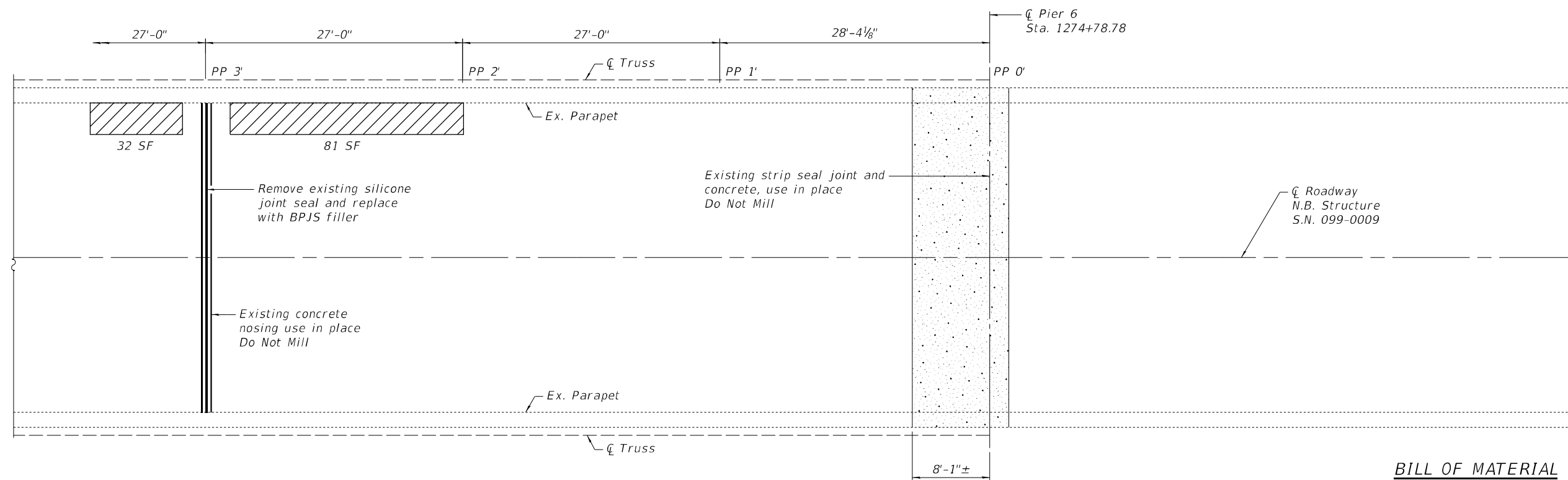
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CONTRACT NO. 62V11				
ILLINOIS FED. AID PROJECT: NHPP-ZVE5(352)				



PLAN - SPAN 5 & 6

LEGEND

Deck Slab Repair (Partial)



PLAN - SPAN 6

BILL OF MATERIAL

Item	Unit	Total
Bonded Preformed Joint Seal, 2 3/4"	Lin. Ft.	66
Deck Slab Repair (Partial)	Sq. Yd.	13

FILE NAME: J:\2022\6041\WO_9\CAD_Sheets\0990008-62V11-014-NB_DECK_PLAN03.dgn



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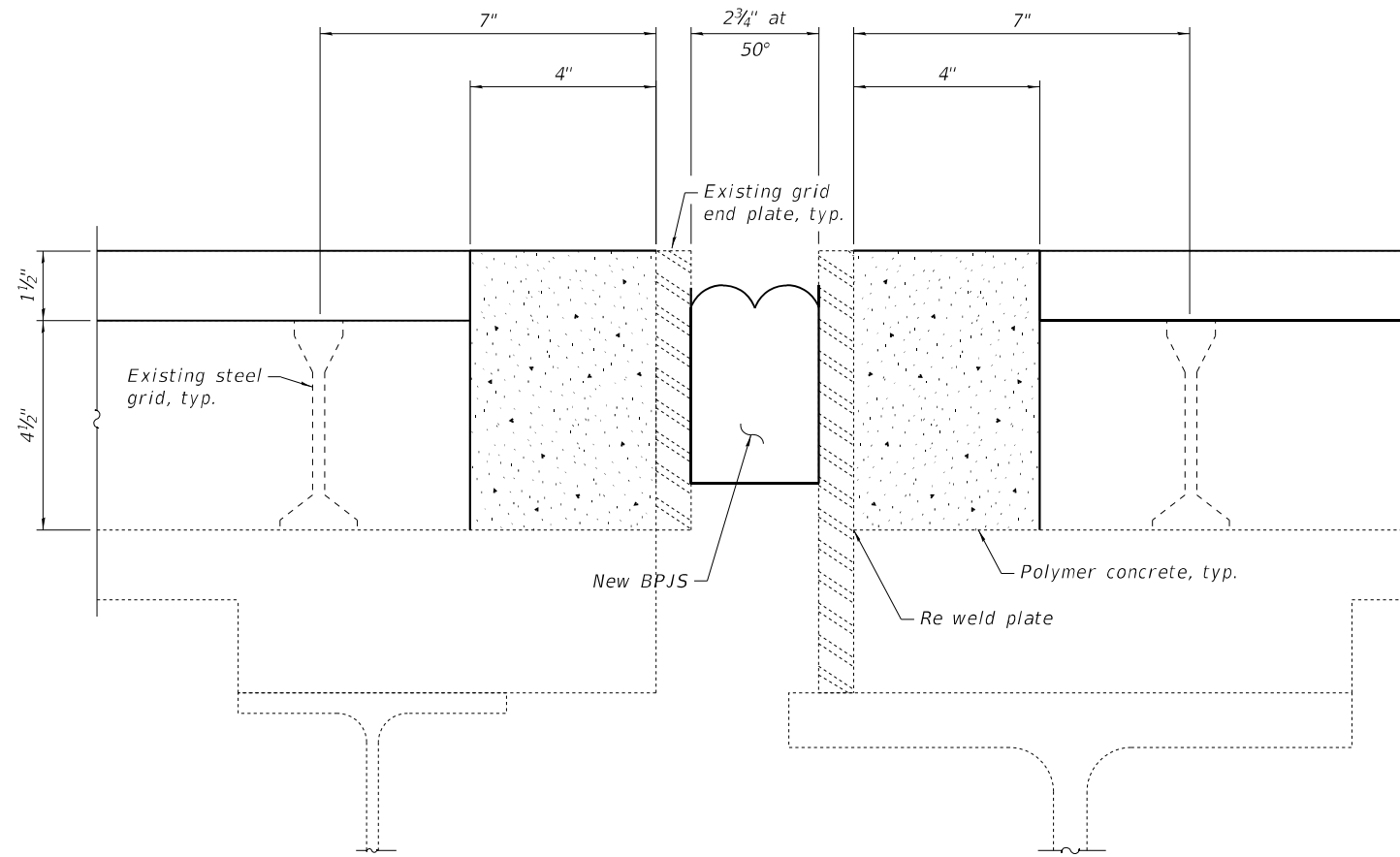
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PLOT DATE = 10/19/2023	CHECKED - SEA	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DECK REPAIR PLAN 3
STRUCTURE NO. 099-0009 (N.B.)

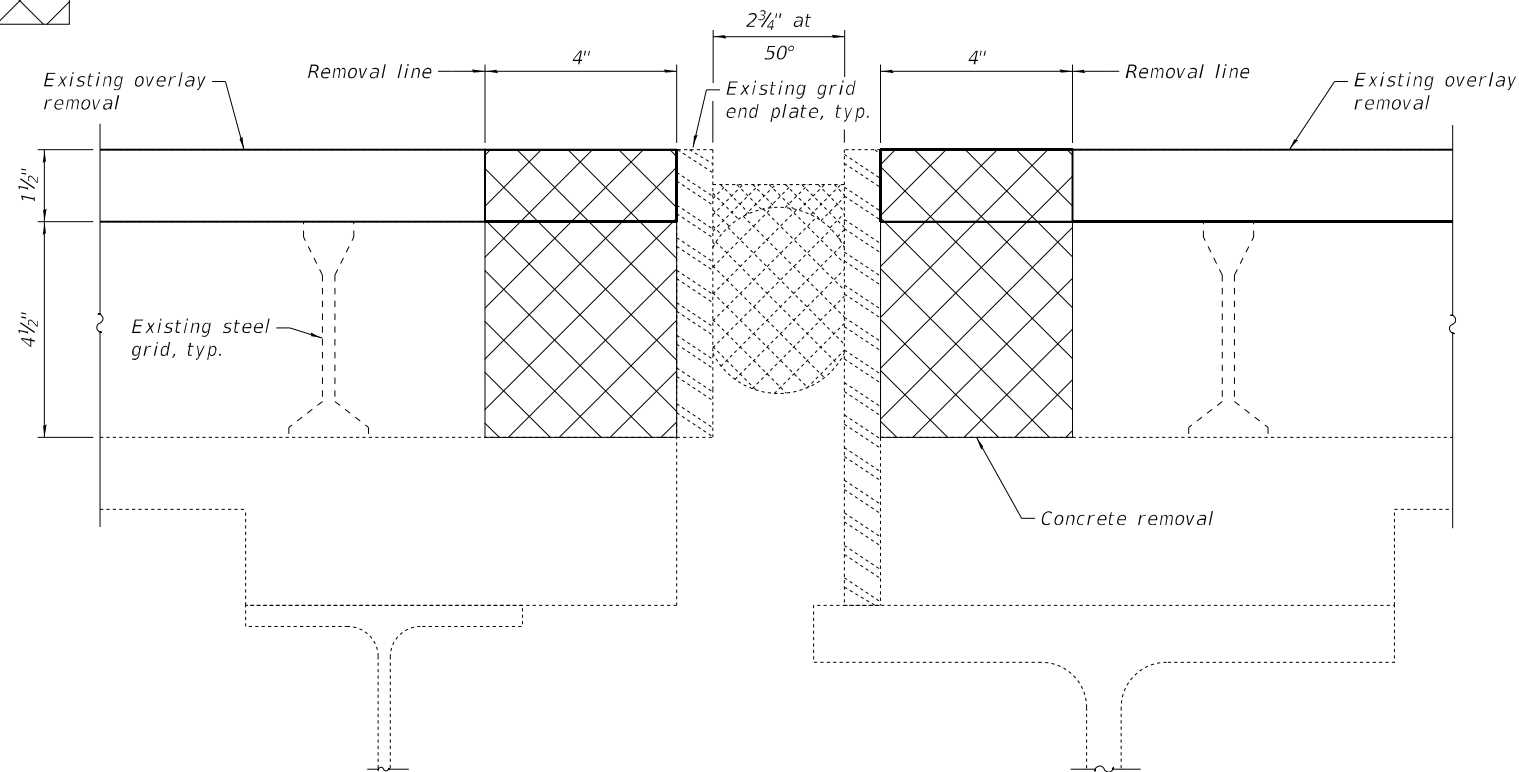
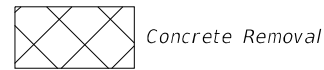
SHEET S-14 OF S-38 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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CONTRACT NO. 62V11				
ILLINOIS FED. AID PROJECT: NHPP-ZVE5(352)				

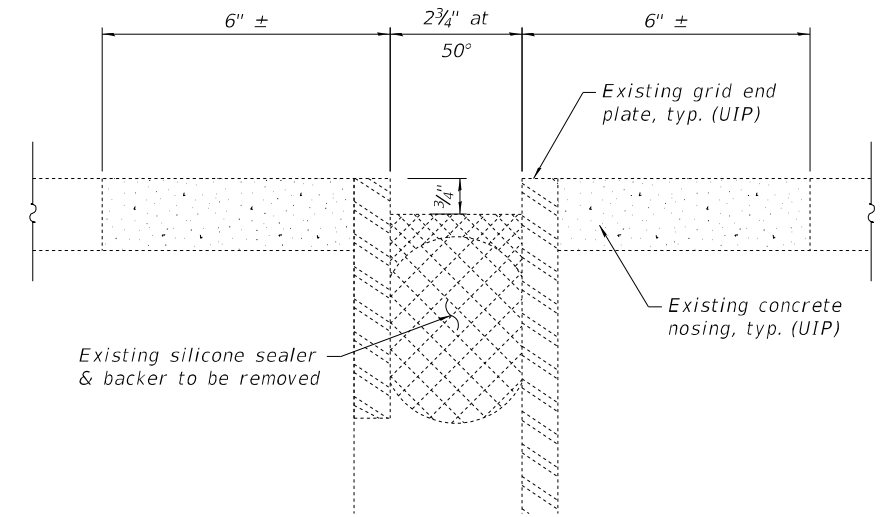


END PLATE REPAIR DETAIL
(PP3' Southbound 099-0008)

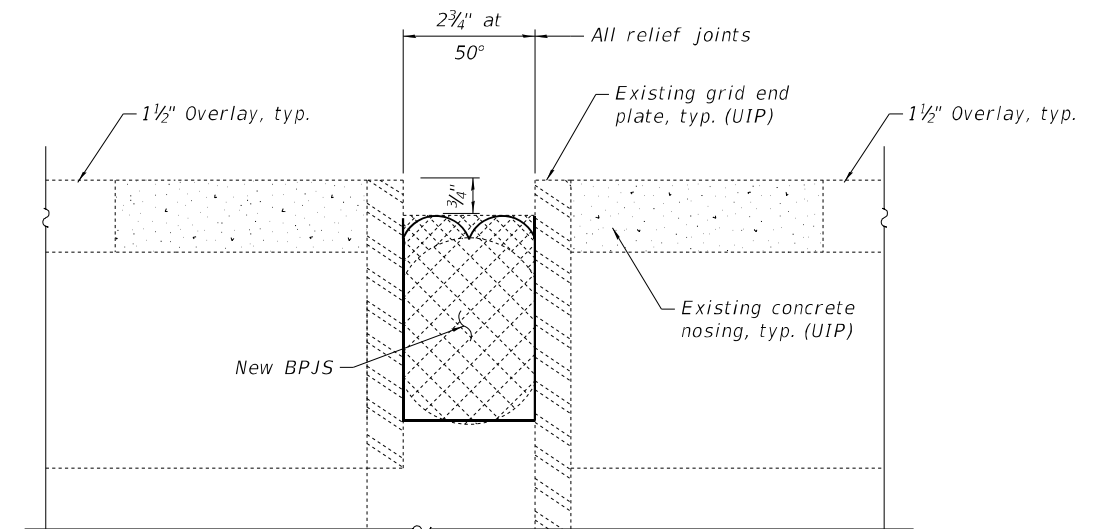
LEGEND



REMOVAL DETAIL
(PP3' Southbound 099-0008)



EXISTING



PROPOSED

JOINT SEALER ALONG TRUSS SPANS
(See deck plans for locations)

Notes:

Joint sealer shall be replaced out to out of deck.

Some grid end plates which are damaged to be replaced as directed by the Engineer. Cost included with "Structural Steel Repair".

BILL OF MATERIAL
(All joint repairs)

Item	Unit	Total
Bonded Preformed Joint Seal, 2 3/4"	Lin. Ft.	594
Polymer Concrete	Cu. Ft.	31.2
Concrete Removal	Cu. Yd.	0.4

FILE NAME: J:\2022\6041\WO_9\CAD_Sheets\0990008-62V11-015-JOINT_REPL01.dgn



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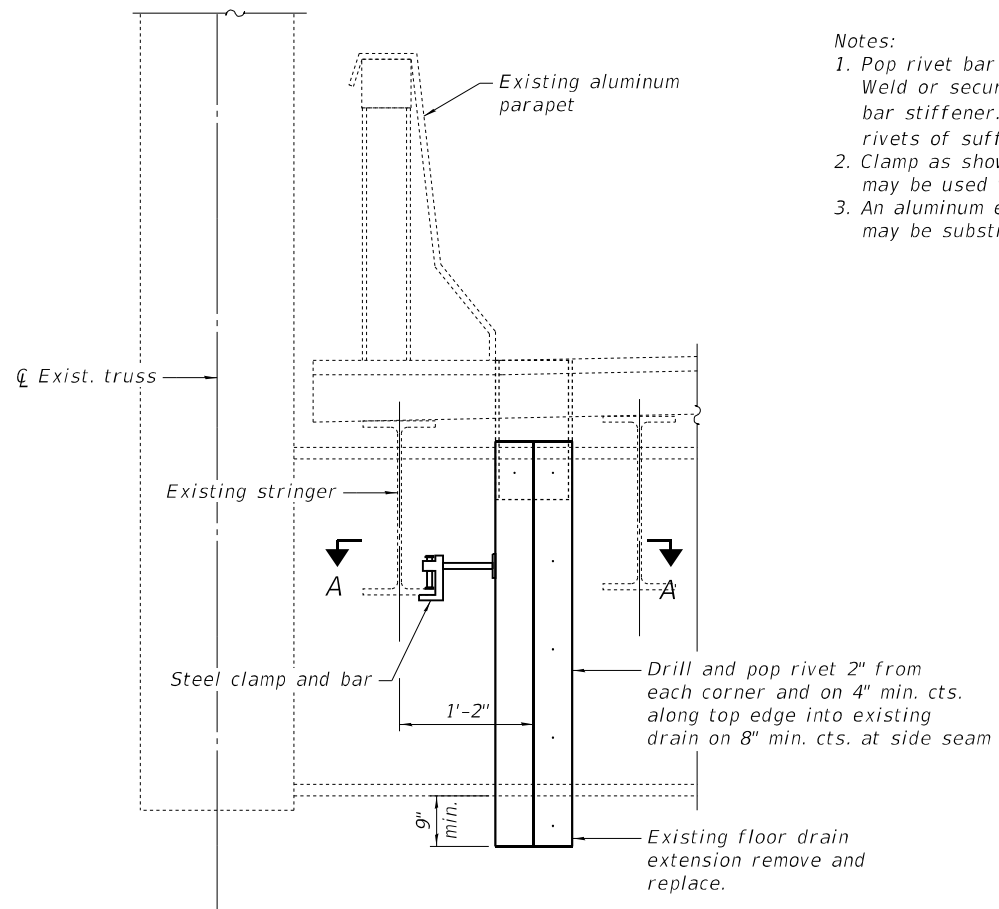
**JOINT SEAL REPLACEMENT
STRUCTURE NO. 099-0008 (S.B.) & 099-0009 (N.B.)**

SHEET S-15 OF S-38 SHEETS

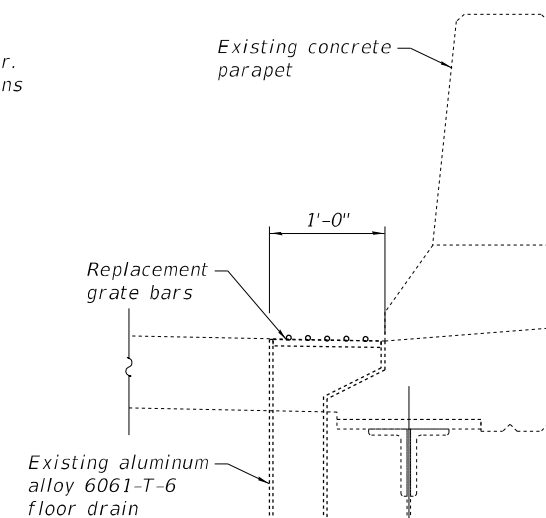
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	FAI 55 23 BR	WILL	67	37
CONTRACT NO. 62V11				
ILLINOIS FED. AID PROJECT: NHPP-ZVE5(352)				

BILL OF MATERIAL

Item	Unit	Total
Drainage Structure Repair	Each	3



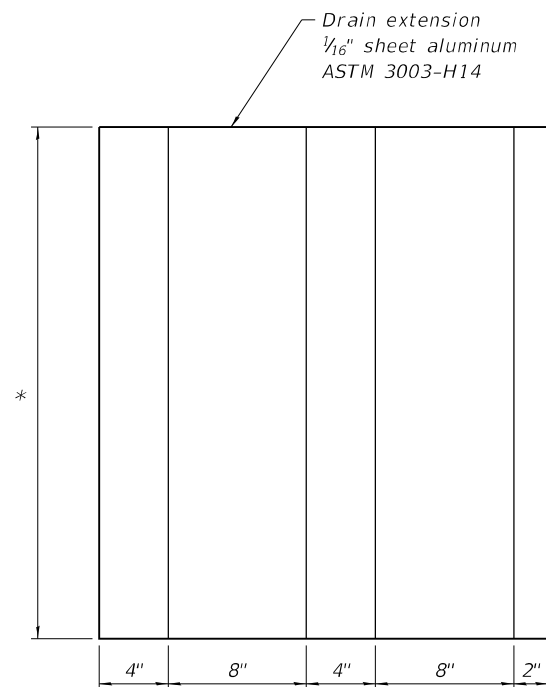
- Notes:
1. Pop rivet bar stiffener to drain extension. Weld or securely attach rod to clamp and bar stiffener. Use 1/4" stainless steel pop rivets of sufficient length.
 2. Clamp as shown, similar commercial grade may be used with approval of the Engineer.
 3. An aluminum extrusion of similar dimensions may be substituted



SECTION

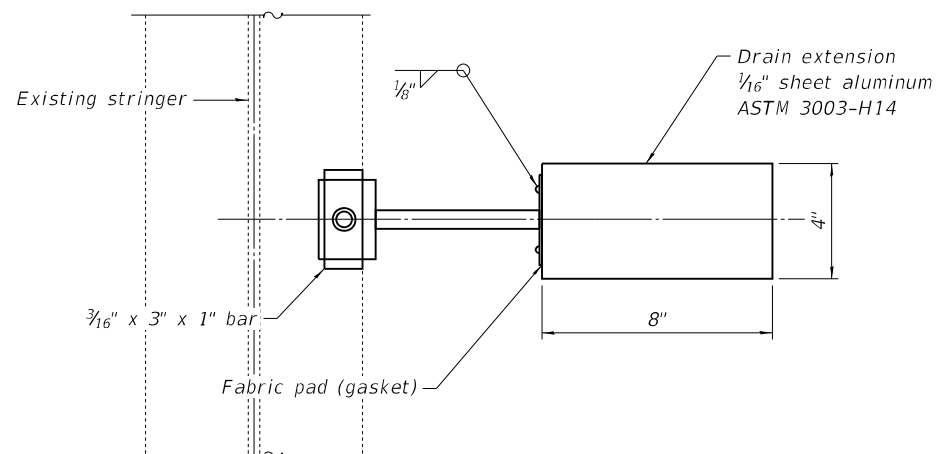
DRAINAGE REPAIR DETAIL TRUSS SPAN

ITEM #7
2 foot South of floor beam 16' East side

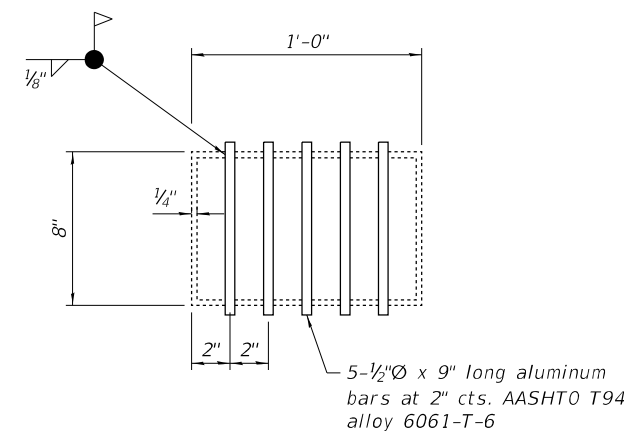


DRAIN EXTENSION

* Field measure to fit existing drain and provide min. distance from low steel



SECTION A-A
1 Required



REPLACEMENT GRATE DETAIL

DRAINAGE REPAIR DETAIL APPROACH SPAN

2 Required

LOCATION

Span	Location
2	Midspan West side SB
7	1st Drain S. of pier 6 SB West side

ITEM #7

FILE NAME: J:\2022\6041\WO_9\CAD_Sheets\0990008-62V11-016-DRAIN DETL.dgn



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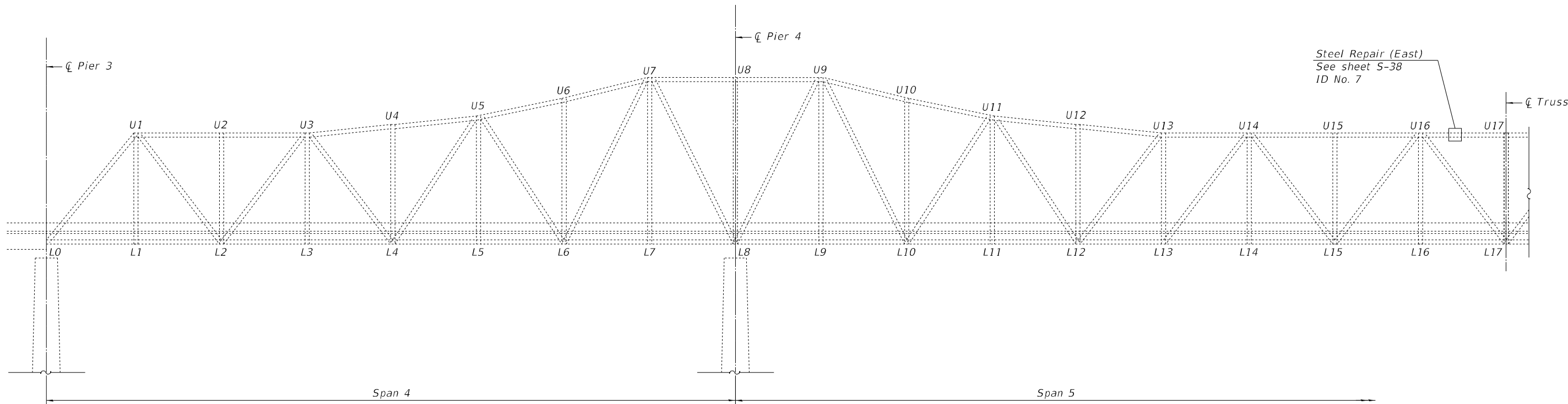
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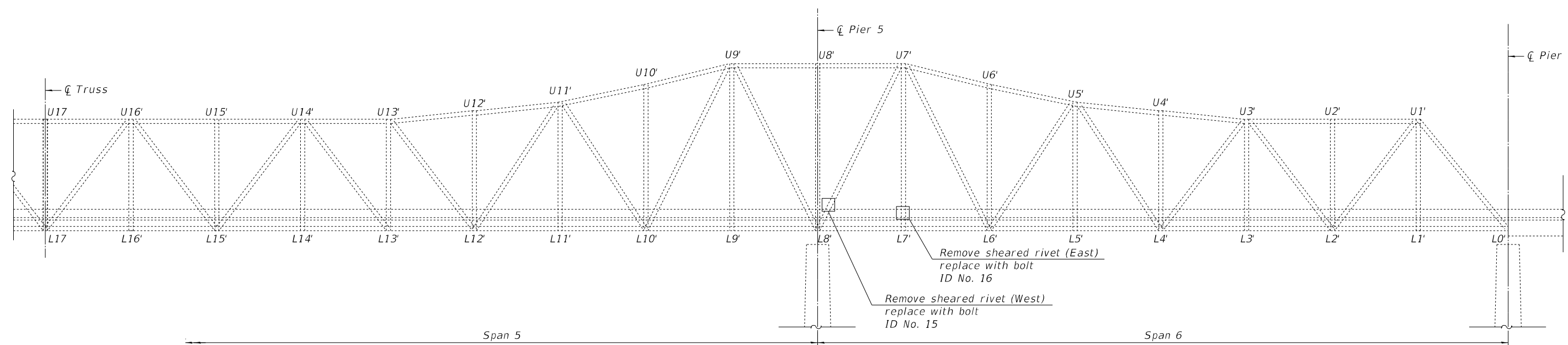
DRAINAGE STRUCTURE REPAIR DETAILS
STRUCTURE NO. 099-0008 (S.B.)

SHEET S-16 OF S-38 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	FAI 55 23 BR	WILL	67	38
CONTRACT NO. 62V11				
ILLINOIS FED. AID PROJECT: NHPP-ZVE5(352)				



SOUTHBOUND TRUSS ELEVATION
(Looking East)



SOUTHBOUND TRUSS ELEVATION
(Looking East)

BILL OF MATERIAL

Item	Unit	Total
Bolt Replacement	Each	2

LEGEND

- 2021 NBIS Report Item
- 2023 NBIS Report Item

FILE NAME: J:\2022\6041\WO_9\CAD_Sheets\0990008-62V11-017-SB_TRUSS_ELEV.dgn



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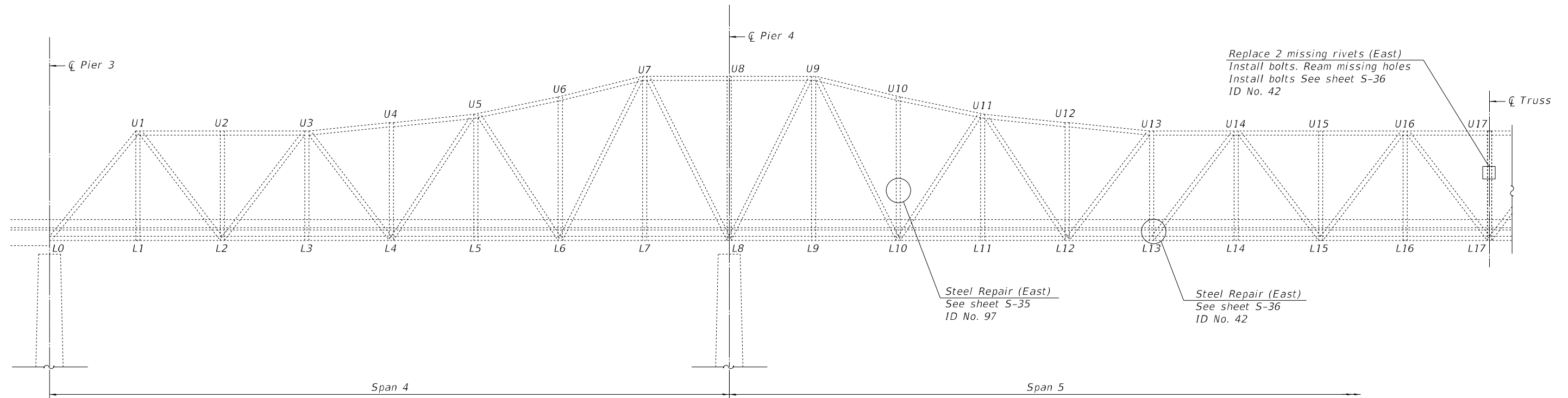
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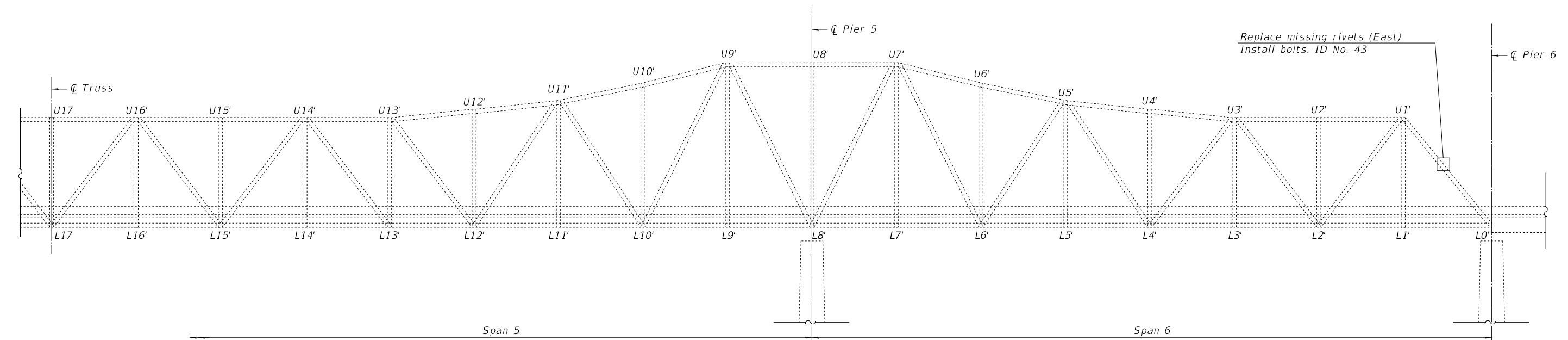
**GENERAL REPAIR LOCATION
STRUCTURE NO. 099-0008 (S.B.)**

SHEET S-17 OF S-38 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	FAI 55 23 BR	WILL	67	39
CONTRACT NO. 62V11				
ILLINOIS FED. AID PROJECT: NHPP-ZVE5(352)				



NORTHBOUND TRUSS ELEVATION
(Looking East)



NORTHBOUND TRUSS ELEVATION
(Looking East)

BILL OF MATERIAL

Item	Unit	Total
Bolt Replacement	Each	5

LEGEND

- 2021 NBIS Report Item
- 2023 NBIS Report Item

FILE NAME: J:\2022\6041\WO_9\CAD_Sheets\0990008-62V11-018-NB_TRUSS_ELEV.dgn



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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**GENERAL REPAIR LOCATION
STRUCTURE NO. 099-0009 (N.B.)**

SHEET S-18 OF S-38 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	FAI 55 23 BR	WILL	67	40
CONTRACT NO. 62V11				
ILLINOIS FED. AID PROJECT: NHPP-ZVE5(352)				

TABLE OF REPAIRS - S.N. 099-0008 SB

2021 NBIS REPORT ITEM	2023 NBIS REPORT ITEM	SPAN	MEMBER	LOCATION	DEFICIENCY	PROPOSED REPAIR
7		2	Deck Drain	Midspan, West Side	Missing drain cover	Replaced cover (See sheet S-16)
7		5	Deck Drain	2' South of Floor Beam 16' East Side	1" hole in drain extension	Repair (See sheet S-16)
7		7	Deck Drain	1st drain South of P6, West Side	Missing drain cover	Replaced cover (See sheet S-16)
135		1	Cross Frame	3rd Cross frame from N. Abutment at Girder 3, West side	7 1/2" crack in angle of Cross Frame	Repair (See sheet S-31)
10		1	Cross Frame	3rd Cross frame from N. Abutment at Girder 5, East Face	6" crack at bottom of stiffener & 2 sheared rivet heads	Repair (See sheet S-31)
19		3	Cross Frame	4th Cross from Pier 2 at Girder 4 East and west sides	2" crack west & 3 1/4" crack in angle of Cross Frame	Repair (See sheet S-31)
22		3	Bearing	Girder 3, at Pier 3	Section loss on Bolster, Cracked welds on North side Bottom Flange to sole Plate, 1/2" on East end, 1" on West end	Repair (See sheet S-32)
23		3	Bearing	Girder 4, at Pier 3	Section Loss on Bolster, West Retainer, loose Anchor Bolt West side, crack weld on North side, between Bottom Flange & sole Plate, 5" on East End.	Repair (See sheet S-32)
24		3	Bearing	Girder 5, at Pier 3	Section Loss on Bolster and Retainers	Repair (See sheet S-32)
75		5	Stinger 3	Panel 15, Full Length	Section Loss in Web & Flanges	Repair (See sheet S-33)
	1	1	Cross Frame	4th Cross frame, from N abutment at girder 3 west side	3- Cracks on angle of cross frame	Repair (see sheet S-31)
	2	1	Cross Frame	5th Cross frame, from N abutment at girder 4 East side	2 1/4" crack, in connection plate of Cross Frame	Repair (see sheet S-31)
	3	3	Cross Frame	3rd cross frame from pier 2, at girder 4 West side	2 1/2" crack, in angle of Cross Frame	Repair (See sheet S-31)
	4	3	Cross Frame	5th Cross frame, from pier 2 at girder 4 East side	7 1/4" crack, in angle of Cross Frame	Repair (see sheet S-31)
	6	5	Lower Lateral	L15E - L16E	3" and 4" long cracks, 1" holes in Angle leg	Repair (See sheet S-34)
	7	5	Upper Chord	U17E - U16E	2" x 4 1/2" hole	Repair (See sheet S-38)
	9	5	Lower Lateral	L15'E - L16'W	50% SL horiz. leg, 100% SL vert. leg, long. cracks at rivets	Repair (See sheet S-34)
	12	5	Lower Lateral	L14'M -L13'E	20% SL, 1" pack rust, 2" hole	Repair (See sheet S-34)
	17	6	Lower Lateral	L4'W - L3'E	30% SL	Repair (See Sheet S-34)

TABLE OF MISSING OR BROKEN BOLTS - S.N. 099-0008 SB

2021 NBIS REPORT ITEM	2023 NBIS REPORT ITEM	SPAN	MEMBER	LOCATION	DEFICIENCY	PROPOSED REPAIR
136		2	Cross Frame	5th cross frame from pier 1 at grdr. 5	1 loose bolt	Replace bolt. (Field verify bolt Dia and length)
17		2	Girder 6	2nd splice North of Pier 2	12-rusted rivet heads with up to 75% SL	Replace all 90 rivets in splice with bolts (Field Verify bolt dia and length)
42		4	Stringer 7	at Floorbeam3, Panel 3	2-missing bolts in Stringer Seat	Replace bolts. (Field verify bolt dia and length)
139		4	Diaphragm	Panel 4, at Stringer 6 midspan	1 missing bolt in top connection angle	Replace bolts. (Field verify bolt dia and length)
	14	5	Lower Lateral	L12'W - L13'E	2 broken bolts	Replace bolts. (Field verify bolt dia and length)
	15	6	Joint	L8' West	Sheared rivet	Replace with bolt. (field verify bolt dia and length)
	16	5	Joint	17' East	Sheared rivet	Replace with bolt. (field verify bolt dia and length)
	20	7	Stiffener	G1 & G2	4 -sheared rivet heads	Remove and replace with bolts. (Field verify bolt dia and length)

BILL OF MATERIAL

Item	Unit	Total
Structural Steel Repair	Pound	5810
Bolt Replacement	Each	102

FILE NAME: J:\2022\6041\WO_9\CAD_Sheets\0990008-62V11-019-55 REPAIR TABLES SB.dgn



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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**TABLE OF REPAIRS
STRUCTURE NO. 099-0008 (S.B.)**

SHEET S-19 OF S-38 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	FAI 55 23 BR	WILL	67	41
CONTRACT NO. 62V11				
ILLINOIS FED. AID PROJECT: NHPP-ZVE5(352)				

TABLE OF REPAIRS - S.N. 099-0009 NB

2021 NBIS REPORT ITEM	2023 NBIS REPORT ITEM	SPAN	MEMBER	LOCATION	DEFICIENCY	PROPOSED REPAIR
5		1	Cross Frame	3rd Cross frame from North Abutment at Girder 3, between Girder 3 & Girder 4	7 3/4" crack in angle to Web	Repair (See sheet S-31)
17		2,3	Bearing	Pier 2, Girder 6	Missing both bearing guides	Repair (See sheet S-32)
96		4	L7E-L8W	@ Last 10' from L8W	Section Loss, hole & cracks	Repair (See sheet S-34)
97		5	L10E-U10E	10' above deck	Section Loss	Repair (See sheet S-35)
42		5	L12E-L13E	@L13E	Section Loss	Repair (See sheet S-36)
99		5	Lower Lateral	L13W to Mid Span Floor Beam 14, Last 12' from L13W	Section Loss, hole & cracks	Repair (See sheet S-34)
129		7	Girder 1	15' South Pier 6	Section loss bottom flange	Repair (See sheet S-28)
87		7	Cross Frame	3rd Cross frame from Pier 6, Between Girder 3 and Girder 4 @ Girder 3	12 3/4" crack in stiffener	Repair (See sheet S-31)
90		7	Girder 4	@ South Abutment	Cracks in bottom flange angles	Repair (See sheet S-28)
	22	3	Cross Frame	4th cross frame from pier 2, between Girder 3 and Girder 4 @ Girder 3	3 1/8" crack in connection angle	Repair (See sheet S-31)
	23	3	Cross Frame	2nd cross frame from pier 3, between girder 2 and Girder 3 @Girder 3	7" & 1 1/2" cracks in connection angle	Repair (See Sheet S-31)
	24	3	Bearing	Pier 3 Girder 2	Cracked weld bottom flange to top sole plate	Repair (See sheet S-32)
	25	3	Bearing	Pier 3 Girder 4	Missing one bearing guide	Repair (See Sheet S-32)
	28	4	Lower Lateral	L6E - L 7W	Two 4" cracks	Repair (See Sheet S-34)
	35	5	Lower Lateral	L13E - Midspan floor beam 14	Two 2" cracks	Repair (See sheet S-34)
	36	5	Lower Lateral	Midspan Floor Beam 13 - L14W	40% section loss, vertical cracks	Repair (See Sheet S-34)
	37	5	Lower Lateral	L14W - L15e	Vert. cracks, 50% SL, several long. cracks	Repair (See Sheet S-34)
	38	5	Lower Lateral	L15W - L16E	3" hole & 30% SL, Vertical cracks	Repair (See Sheet S-34)
	39	5	Lower Lateral	L15E - L16W	5 - 3" cracks 30% SL	Repair (See Sheet S-34)
	40	5	Lower Lateral	L17W - L16E	Longitudinal cracks above rivets	Repair (See Sheet S-34)
	41	5	Lower Lateral	L17E - L16W	Longitudinal cracks above rivets	Repair (See Sheet S-34)
	45	5	Lower Lateral	L16'E - L15'W	Longitudinal cracks above rivets	Repair (See sheet S-34)
	47	5	Lower Lateral	L13'W - Mid Floor beam 12'	Longitudinal cracks above rivets, 35% SL	Repair (See Sheet S-34)

TABLE OF MISSING OR BROKEN BOLTS - S.N. 099-0009 NB

2021 NBIS REPORT ITEM	2023 NBIS REPORT ITEM	SPAN	MEMBER	LOCATION	DEFICIENCY	PROPOSED REPAIR
93		2	Cross Frame	4th Cross Frame from Pier 1 between Girder 3 & Girder 4 @ girder 3	1 missing bolt	Replace bolt. (Field verify bolt Dia and length)
89		7	Cross Frame	4th Cross Frame from Pier 6 between Girder 3 & Girder 4 @ girder 3	1 missing bolt @ 1 loose bolt	Replace bolts. (Field verify bolt dia and length)
90		7	Bottom Flange	Girder 4	2 missing bolts	Replace bolts. (Field verify bolt dia and length)
	42	5	L17E - U17E	Vertical	1 misdrilled hole on west channel 1 misdrilled hole and 2 broken rivets on East Channel	Replace with bolts & ream holes and install bolts (Field verify bolt dia and length) Remove and Replace with bolt
	43	6	U1E'-L0'E	Diagonal	1 missing rivet head	(field verify bolt dia and length)
	27	4	L6W	Lower Lateral connection	1 missing bolt	Replace bolt. (Field verify bolt Dia and length)
	32	5	Lower Lateral	L12E- FB13	1 missing rivet	Replace bolt. (Field verify bolt Dia and length)
	48	5	Lower Lateral	L12'W to Mid FB 13'	2 broken bolts	Replace bolt. (Field verify bolt Dia and length)
	49	5	Lower Lateral	Mid FB 13' - L12E	Missing rivet	Replace bolt. (Field verify bolt Dia and length)
	50	5	Stringer 6	West face diaphragm	Broken rivet head	Replace bolt. (Field verify bolt Dia and length)
	32	5	Lower Lateral	Mid FB 13' - L12E	Missing rivet	Replace bolt. (Field verify bolt Dia and length)
	29	5	Lower Lateral	L9E - L10W	Missing rivet	Replace bolt. (Field verify bolt Dia and length)

BILL OF MATERIAL

Item	Unit	Total
Structural Steel Repair	Pound	11180
Bolt Replacement	Each	17

FILE NAME: J:\2022\6041\WO_9\CAD_Sheets\0990008-62V11-020-55_REPAIR TABLES NB.dgn



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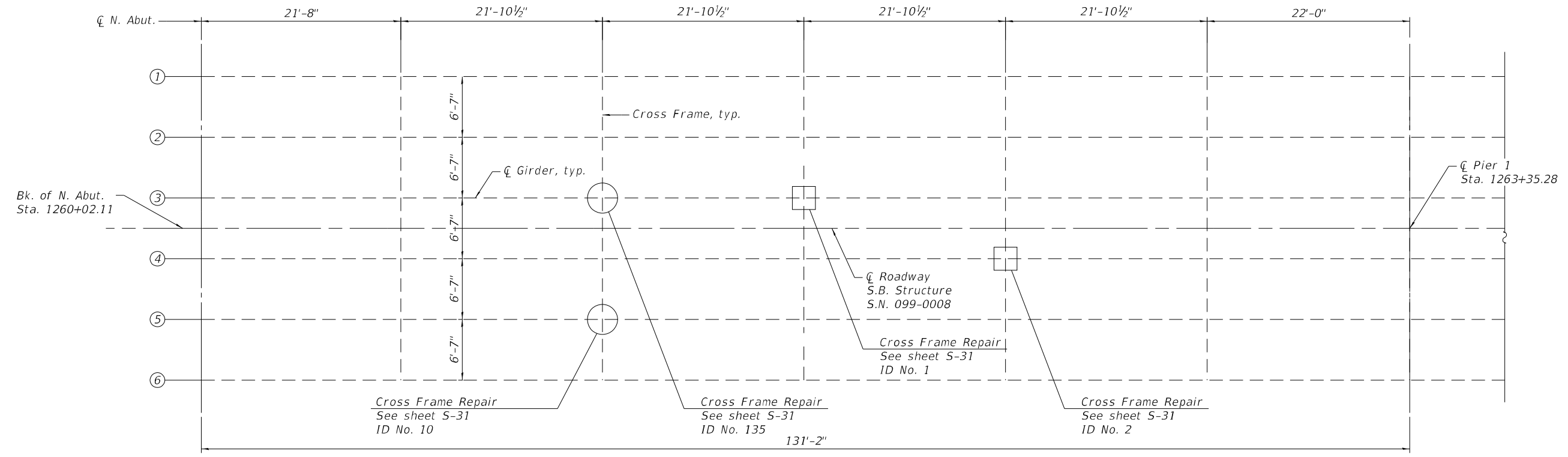
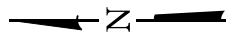
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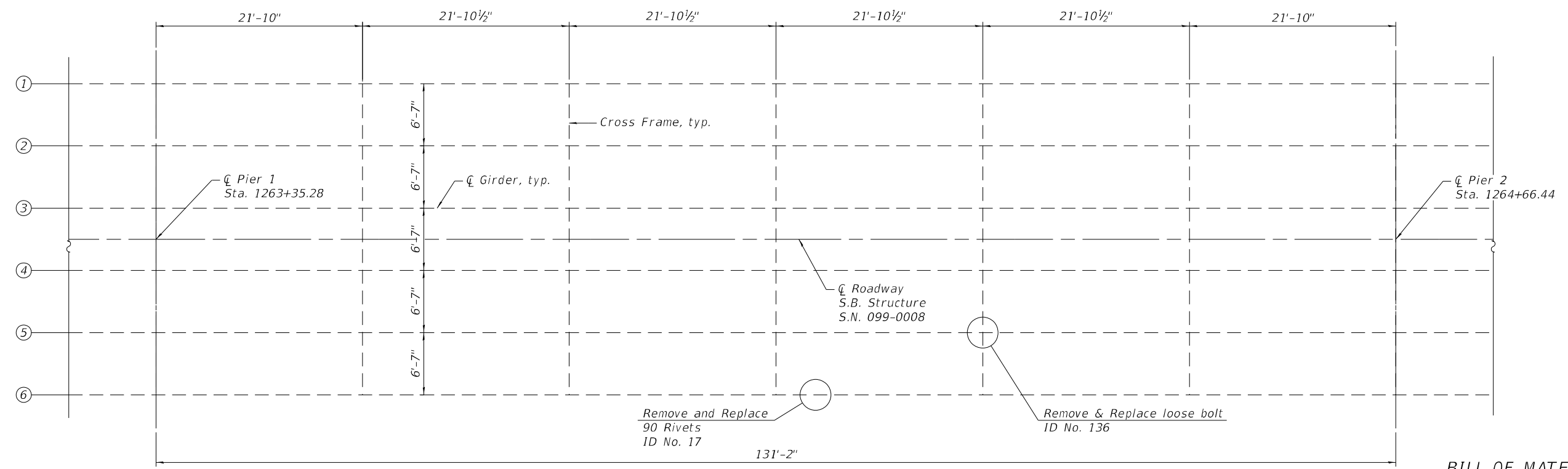
**TABLE OF REPAIRS
STRUCTURE NO. 099-0009 (N.B.)**

SHEET S-20 OF S-38 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	FAI 55 23 BR	WILL	67	42
CONTRACT NO. 62V11				
ILLINOIS FED. AID PROJECT: NHPP-ZVE5(352)				



PLAN - SPAN 1



PLAN - SPAN 2

BILL OF MATERIAL

Item	Unit	Total
Bolt Replacement	Each	91

LEGEND

- 2021 NBIS Report Item
- 2023 NBIS Report Item

FILE NAME: J:\2022\6041\WO_9\CAD_Sheets\0990008-62V11-021-SB_FRAME_PLAN01.dgn



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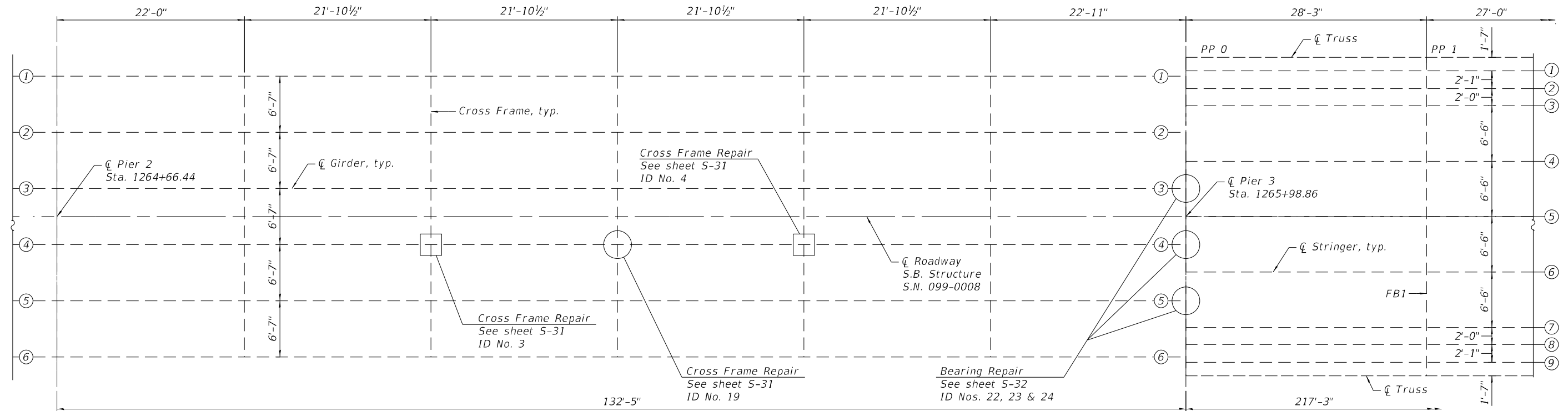
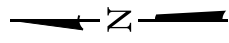
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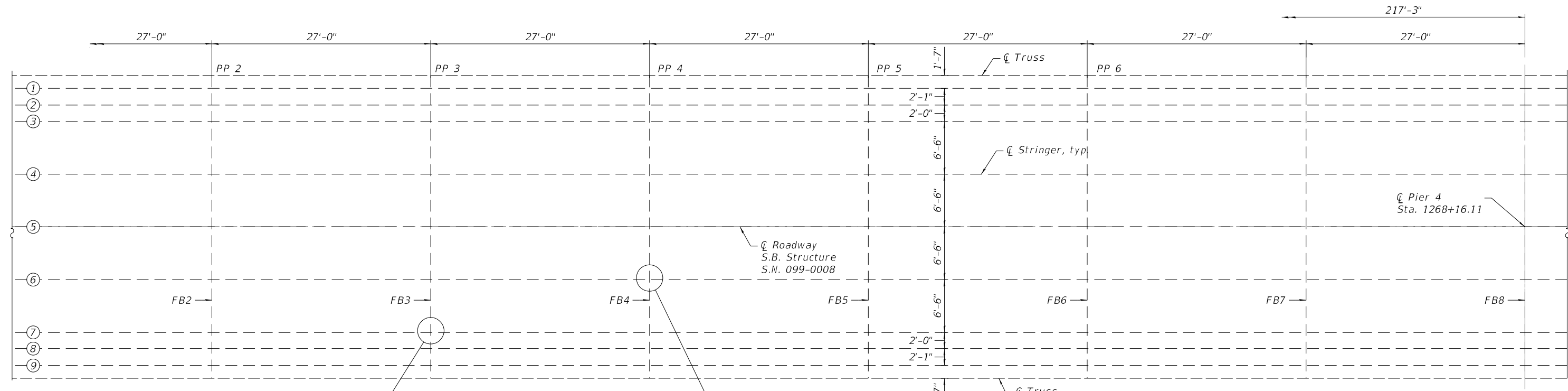
FRAMING PLAN 1
STRUCTURE NO. 099-0008 (S.B.)

SHEET S-21 OF S-38 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	FAI 55 23 BR	WILL	67	43
CONTRACT NO. 62V11				
ILLINOIS FED. AID PROJECT: NHPP-ZVE5(352)				



PLAN - SPAN 3 & 4



PLAN - SPAN 4

BILL OF MATERIAL

Item	Unit	Total
Bolt Replacement	Each	3

LEGEND

- 2021 NBIS Report Item
- 2023 NBIS Report Item

FILE NAME: J:\2022\6041\WO_9\CAD_Sheets\0990008-62V11-022-SB_FRAME_PLAN02.dgn



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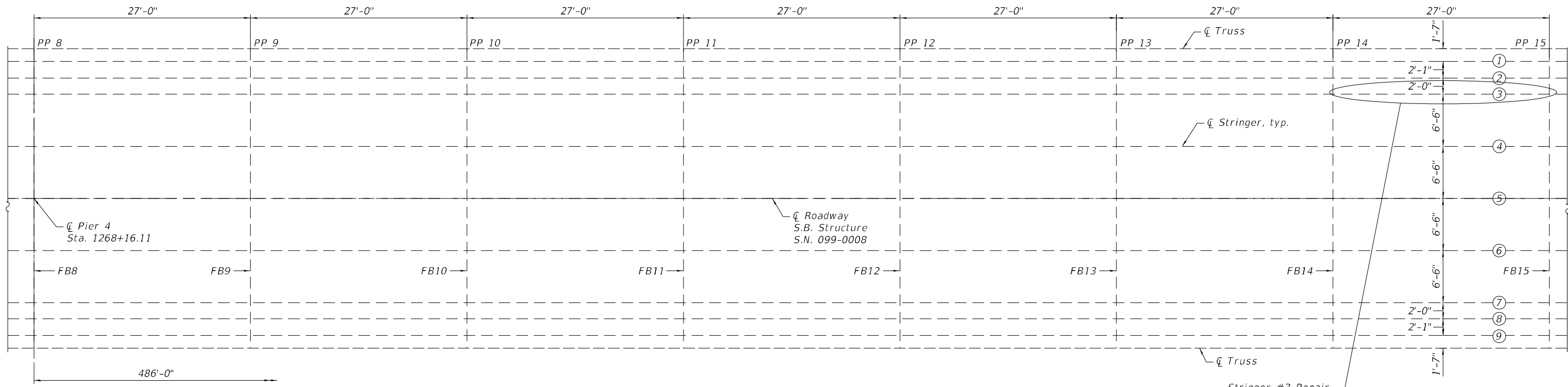
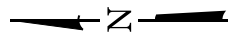
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**FRAMING PLAN 2
STRUCTURE NO. 099-0008 (S.B.)**

SHEET S-22 OF S-38 SHEETS

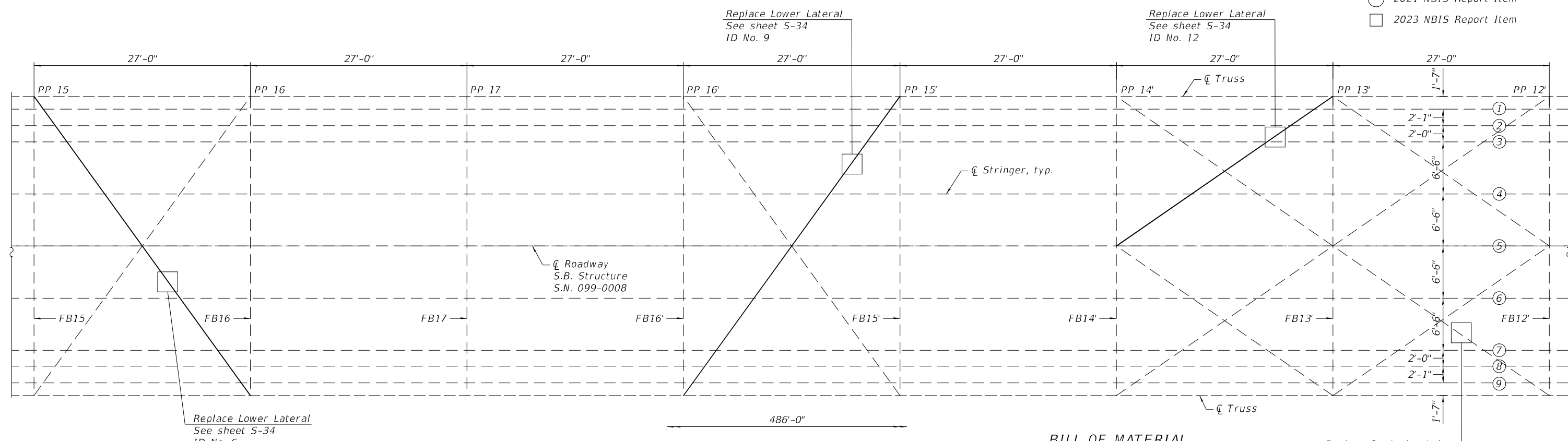
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CONTRACT NO. 62V11				
ILLINOIS FED. AID PROJECT: NHPP-2VE(352)				



PLAN - SPAN 5

LEGEND

- 2021 NBIS Report Item
- 2023 NBIS Report Item



PLAN - SPAN 5

BILL OF MATERIAL

Item	Unit	Total
Bolt Replacement	Each	2

Replace 2 missing bolts
Lower Lateral
ID No. 14

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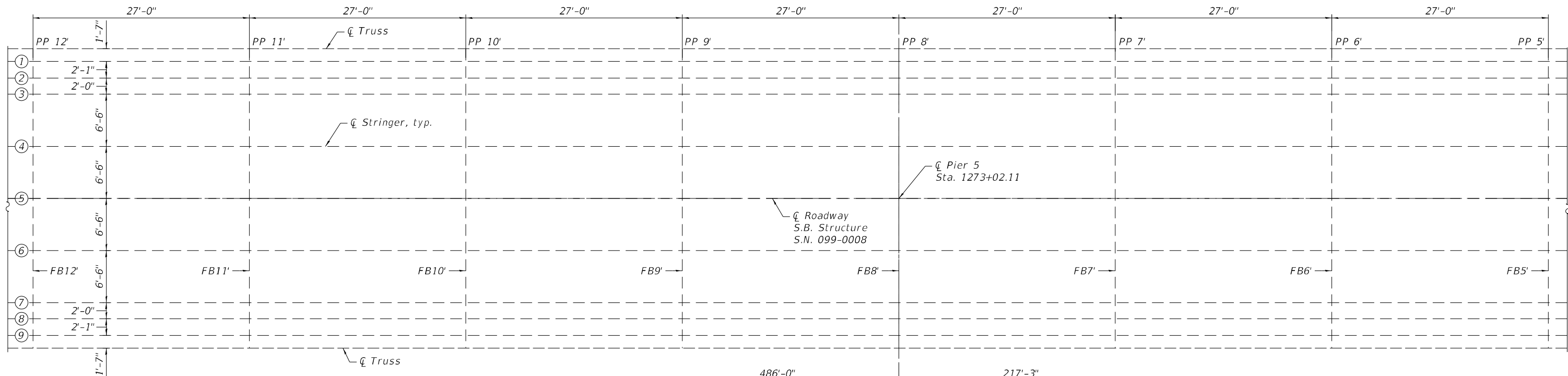
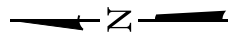
**STATE OF ILLINOIS
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**FRAMING PLAN 3
STRUCTURE NO. 099-0008 (S.B.)**

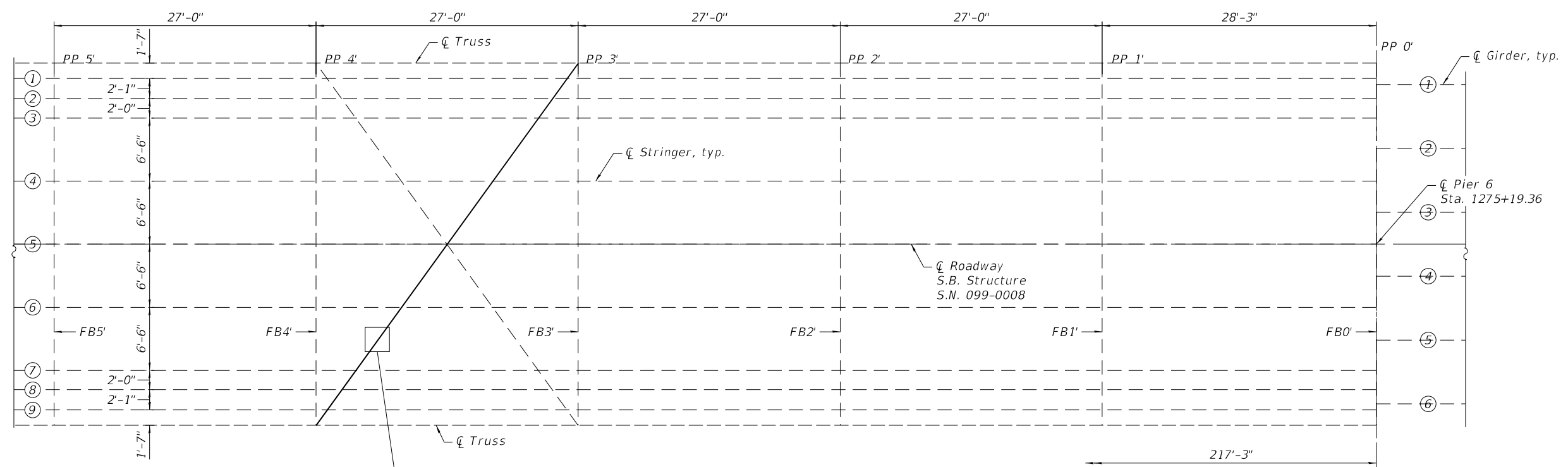
SHEET S-23 OF S-38 SHEETS

FAI RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	FAI 55 23 BR	WILL	67	45
CONTRACT NO. 62V11				

ILLINOIS FED. AID PROJECT: NHPP-ZVE5(352)



PLAN - SPAN 5 & 6



PLAN - SPAN 6

LEGEND

- 2021 NBIS Report Item
- 2023 NBIS Report Item

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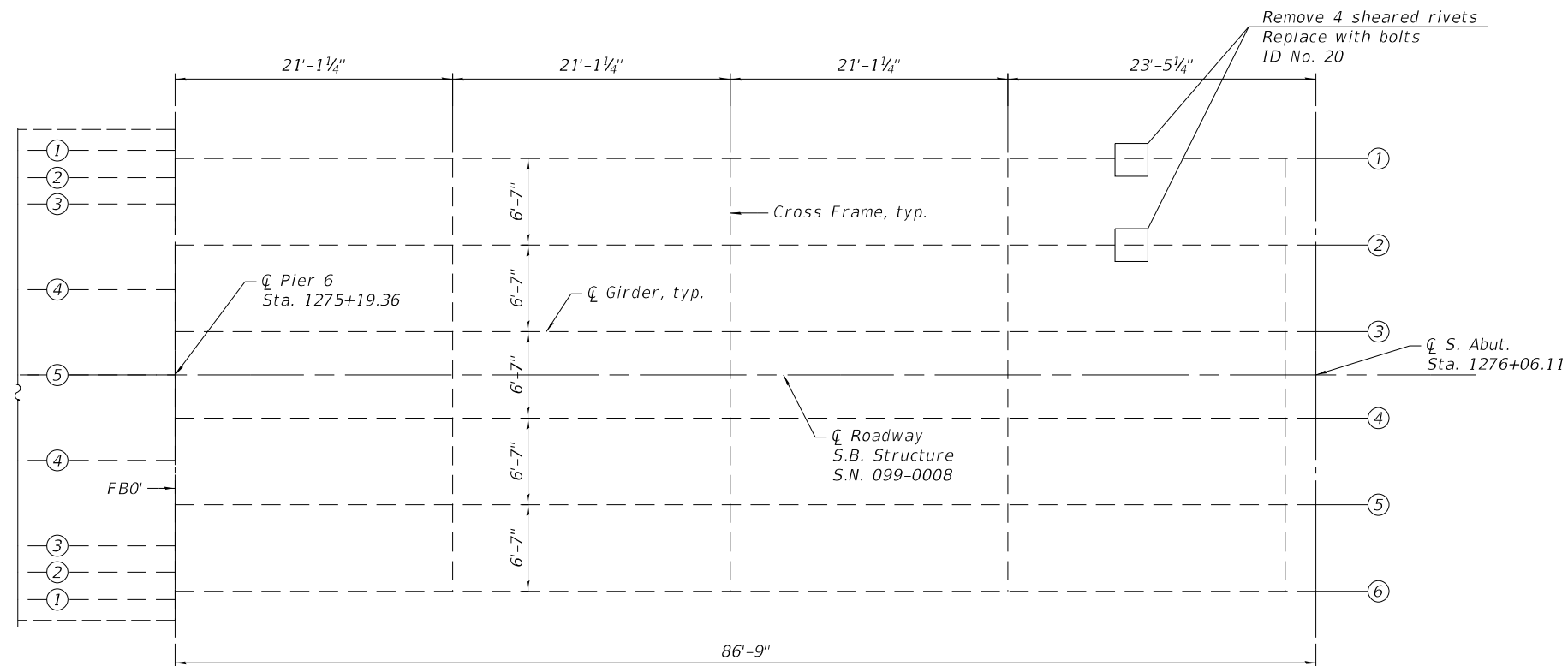
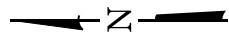
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PLOT DATE = 10/19/2023	CHECKED - SEA	REVISED -

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**FRAMING PLAN 4
STRUCTURE NO. 099-0008 (S.B.)**

SHEET S-24 OF S-38 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	FAI 55 23 BR	WILL	67	46
CONTRACT NO. 62V11				
ILLINOIS FED. AID PROJECT: NHPP-ZVE5(352)				



PLAN - SPAN 7

BILL OF MATERIAL

Item	Unit	Total
Bolt Replacement	Each	4

LEGEND

- 2021 NBIS Report Item
- 2023 NBIS Report Item

FILE NAME: J:\2022\6041\WO_9\CAD_Sheets\0990008-62V11-025-SB_FRAME_PLAN05.dgn



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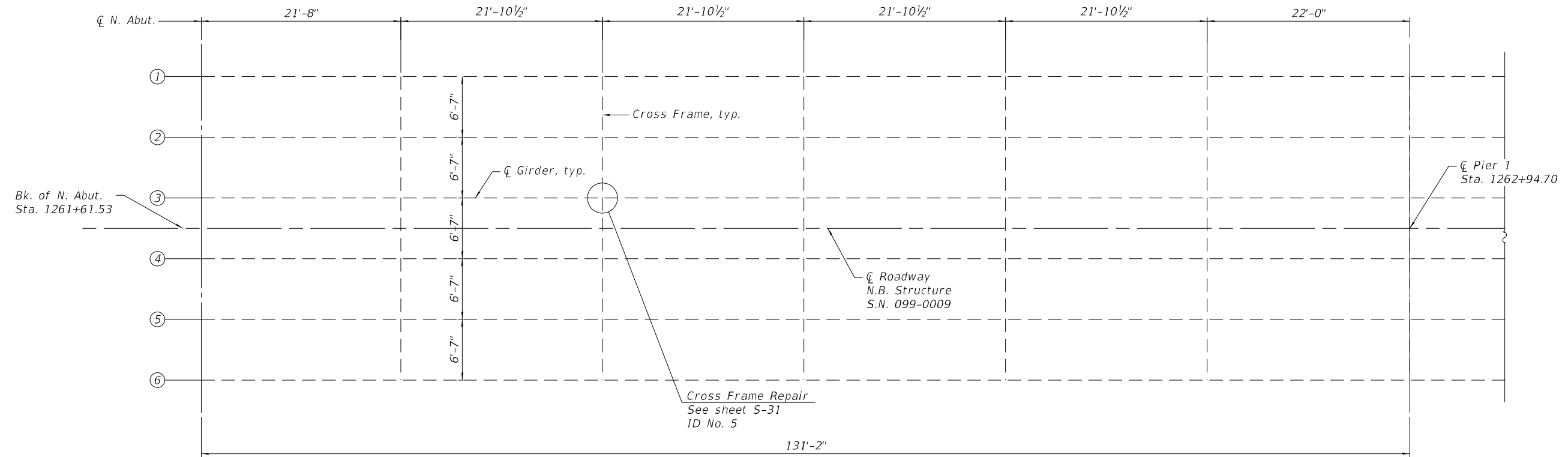
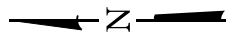
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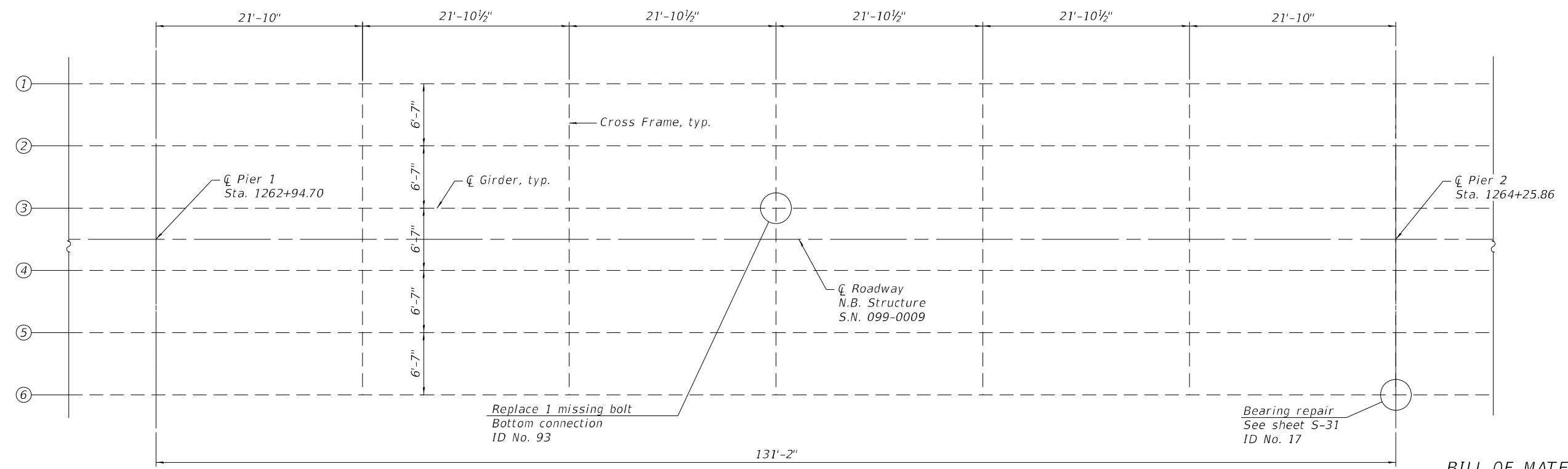
**FRAMING PLAN 5
STRUCTURE NO. 099-0008 (S.B.)**

SHEET S-25 OF S-38 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	FAI 55 23 BR	WILL	67	47
			CONTRACT NO. 62V11	
ILLINOIS FED. AID PROJECT: NHPP-ZVE5(352)				



PLAN - SPAN 1



PLAN - SPAN 2

BILL OF MATERIAL

Item	Unit	Total
Bolt Replacement	Each	1

LEGEND

- 2021 NBIS Report Item
- 2023 NBIS Report Item

FILE NAME: J:\2022\6041\WO_9\CAD_Sheets\0990008-62V11-026-NB_FRAMING_PLAN01.dgn



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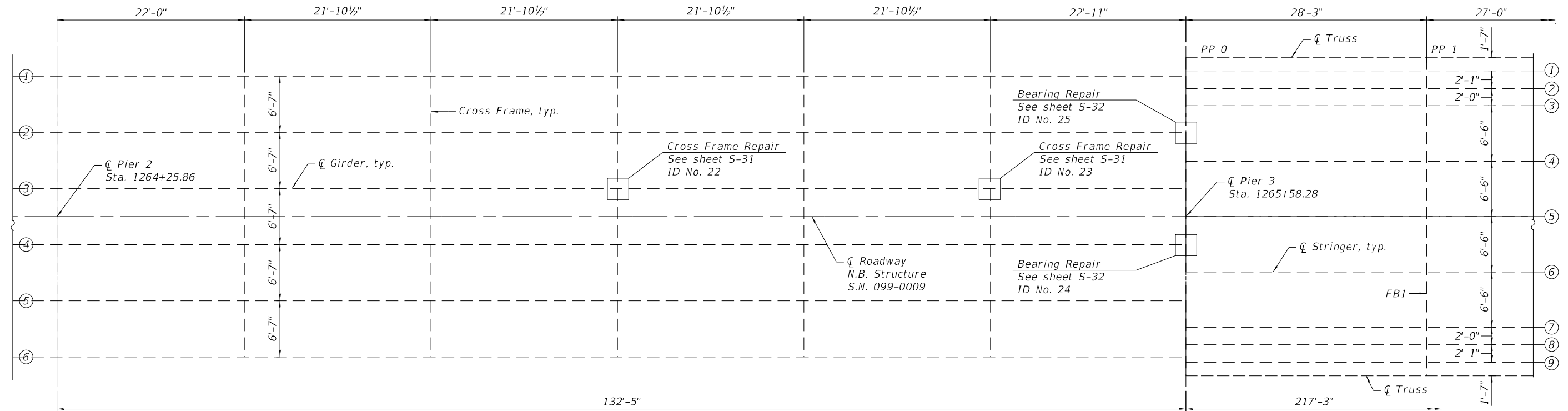
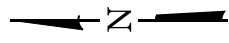
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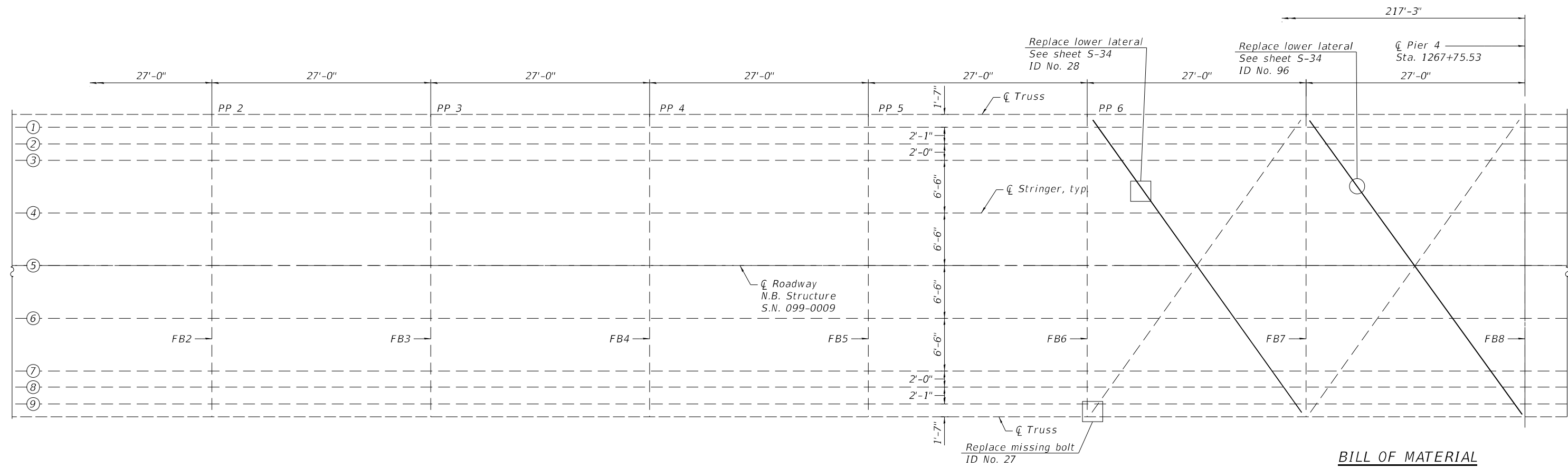
**FRAMING PLAN 1
STRUCTURE NO. 099-0009 (N.B.)**

SHEET S-26 OF S-38 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	FAI 55 23 BR	WILL	67	48
CONTRACT NO. 62V11				
ILLINOIS FED. AID PROJECT: NHPP-ZVE5(352)				



PLAN - SPAN 3 & 4



PLAN - SPAN 4

BILL OF MATERIAL

Item	Unit	Total
Bolt Replacement	Each	1

LEGEND

- 2021 NBIS Report Item
- 2023 NBIS Report Item

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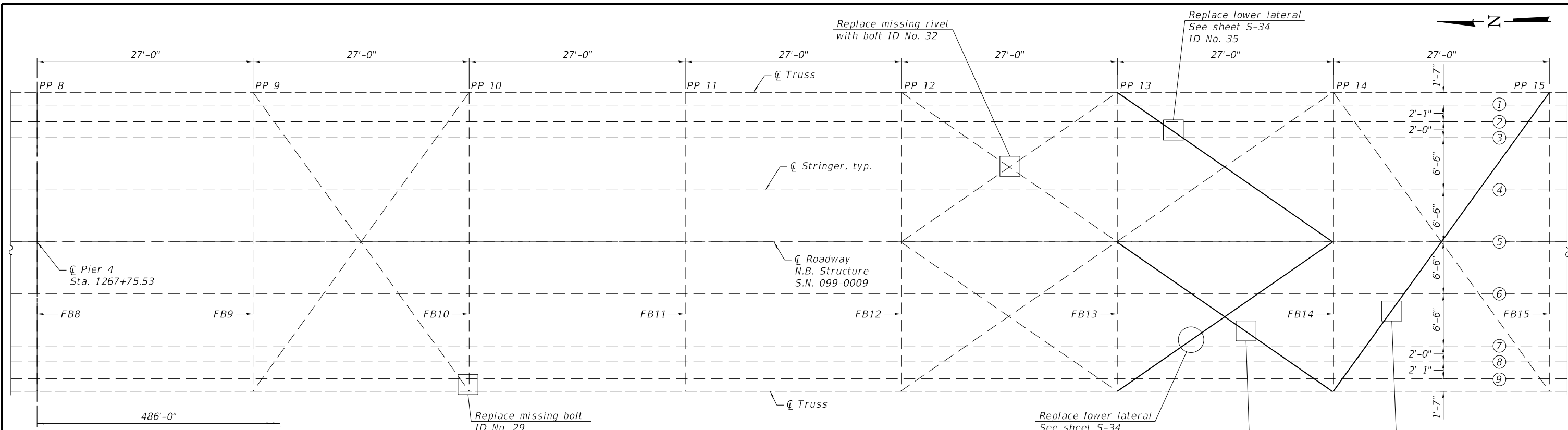
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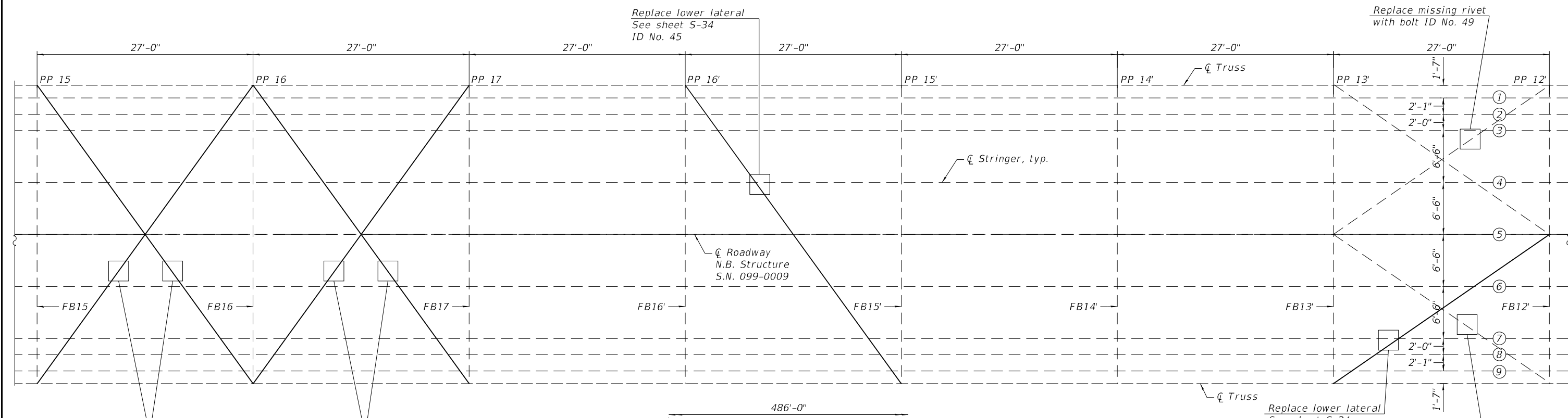
**FRAMING PLAN 2
STRUCTURE NO. 099-0009 (N.B.)**

SHEET S-27 OF S-38 SHEETS

F.A.I. RTE. 55	SECTION FAI 55 23 BR	COUNTY WILL	TOTAL SHEETS 67	SHEET NO. 49
CONTRACT NO. 62V11				
ILLINOIS FED. AID PROJECT: NHPP-2VE5(352)				



PLAN - SPAN 5



PLAN - SPAN 5

LEGEND

○ 2021 NBIS Report Item

□ 2023 NBIS Report Item

BILL OF MATERIAL

Item	Unit	Total
Bolt Replacement	Each	5

FILE NAME: J:\2022\1604\1\WO_9\CAD_Sheets\0990008-62V11-028-NB_FRAME_PLAN03.dgn

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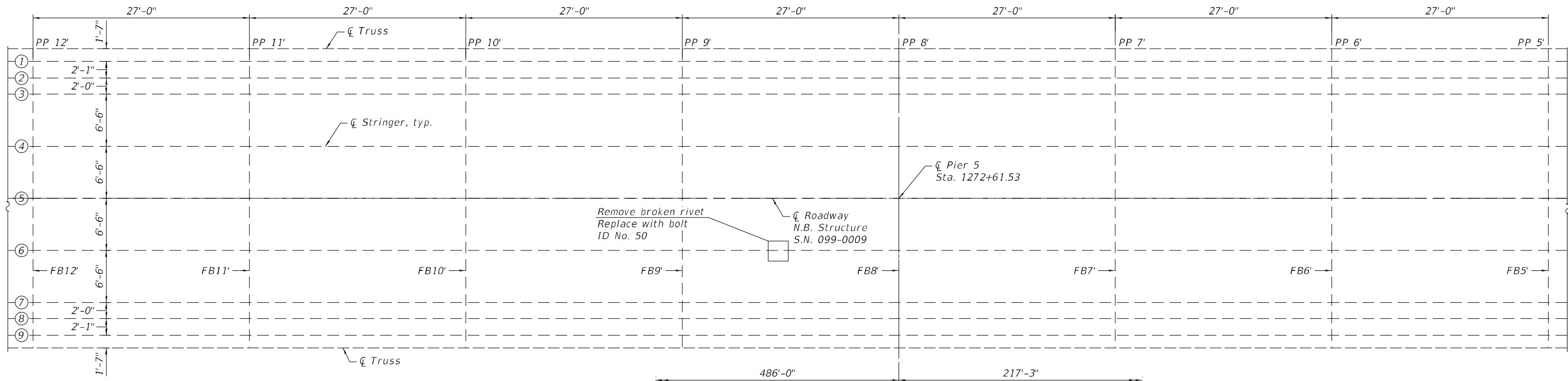
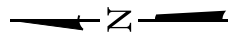
**STATE OF ILLINOIS
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**FRAMING PLAN 3
 STRUCTURE NO. 099-0009 (N.B.)**

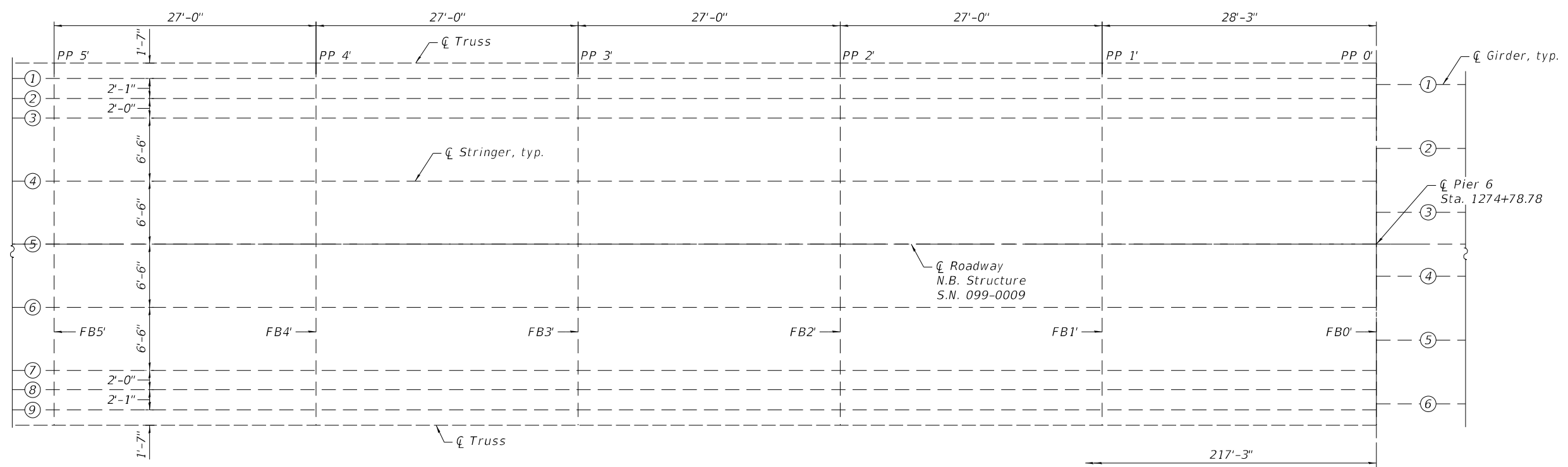
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FAI RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	FAI 55 23 BR	WILL	67	50
CONTRACT NO. 62V11				

ILLINOIS FED. AID PROJECT: NHPP-2VE5(352)



PLAN - SPAN 5 & 6



PLAN - SPAN 6

BILL OF MATERIAL

LEGEND

- 2021 NBIS Report Item
- 2023 NBIS Report Item

Item	Unit	Total
Bolt Replacement	Each	1

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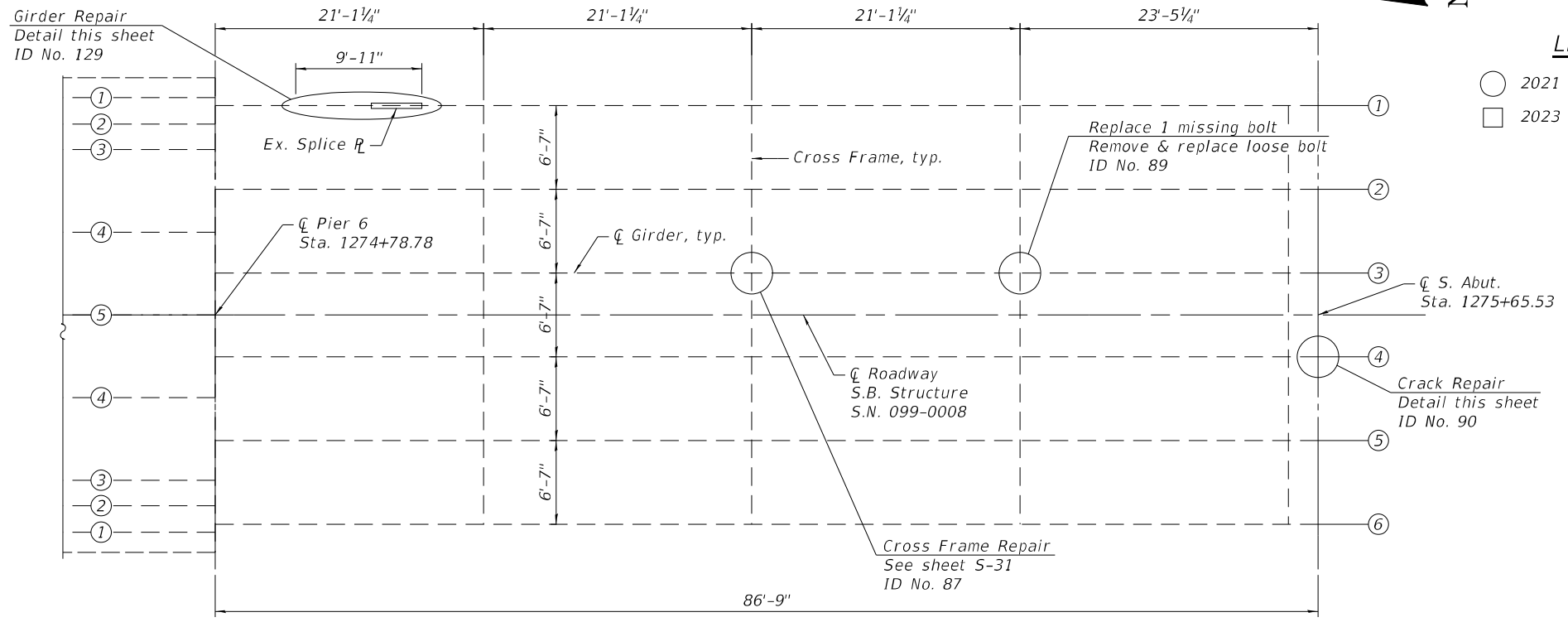
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**FRAMING PLAN 4
STRUCTURE NO. 099-0009 (N.B.)**

SHEET S-29 OF S-38 SHEETS

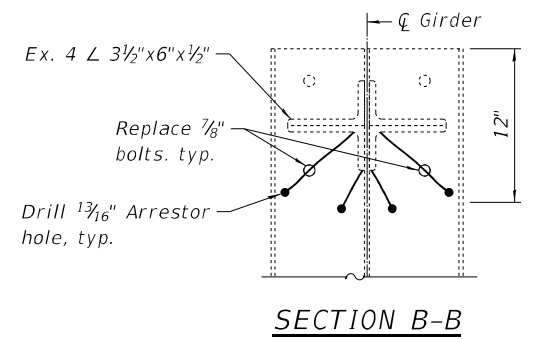
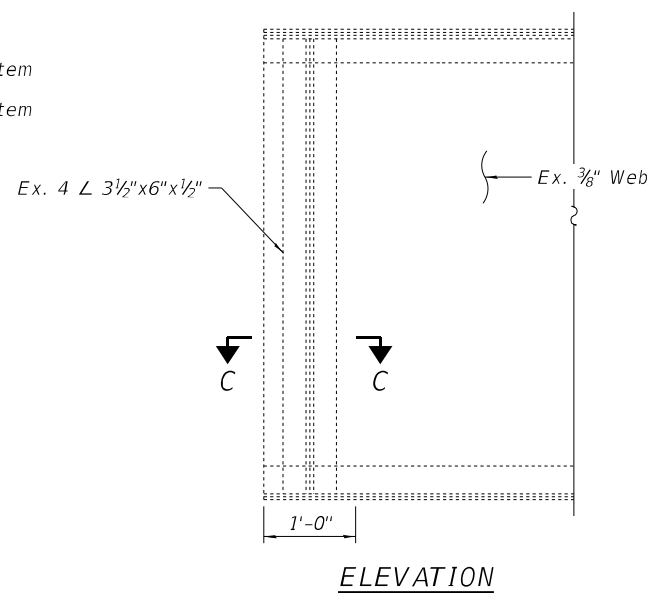
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55	FAI 55 23 BR	WILL	67	51
CONTRACT NO. 62V11				
ILLINOIS FED. AID PROJECT: NHPP-ZVE5(352)				



LEGEND

○ 2021 NBIS Report Item

□ 2023 NBIS Report Item



CRACK REPAIR DETAIL - ID No. 90

Notes:

Locate tip of crack using liquid dye penetrant or magnetic particle testing. Drill 13/16" min. Ø arrestor hole at the crack tip in the existing connection angle. Care shall be taken to not drill into the underlying fill plate or girder web. After arrestor hole has been drilled, dye penetrant or magnetic particle testing shall be used to verify that the drilled hole has captured the tip.

Existing steel that will be in contact with the new steel will be cleaned and painted in accordance with the special provision for Cleaning and Painting Contact Surface Areas of Existing Steel Structures for primary connections. The primer shall be dry to touch prior to connecting new steel to existing steel.

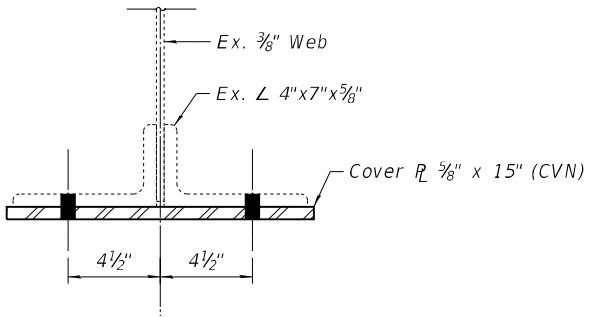
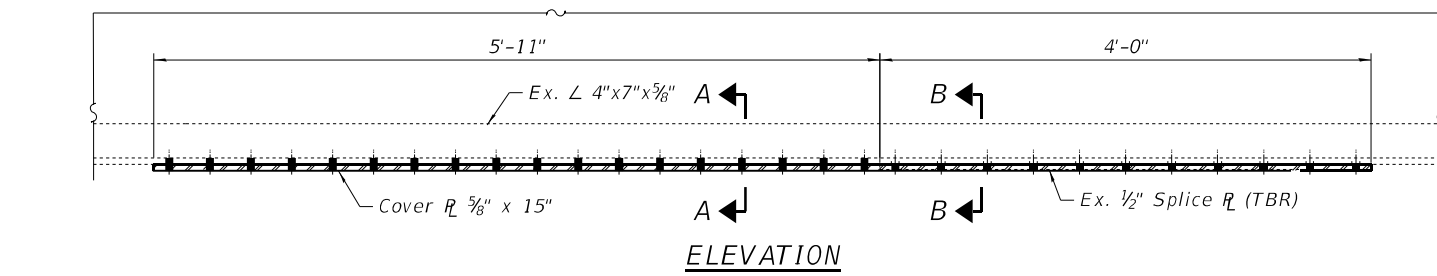
The cost of all work to repair girder, including steel removal, material testing and identification, shall be included in the cost for Structural Steel Repair.

In reference to the cross frame numbering, the cross frame located at the pier shall be considered the first cross frame in that span.

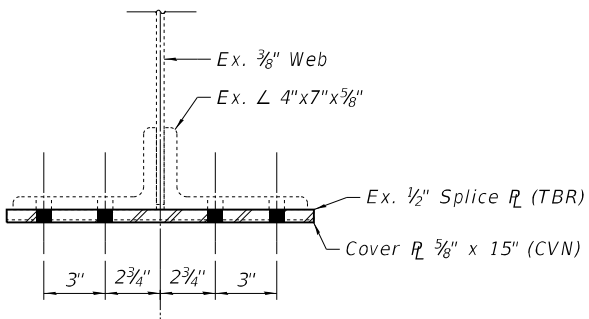
Load carrying components designated "CVN" denotes Charpy-V-Notch impact energy requirements, zone 2.

BILL OF MATERIAL

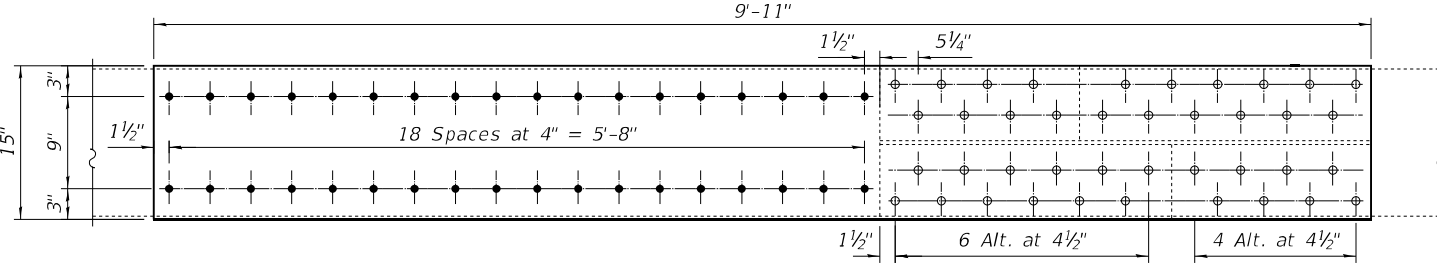
Item	Unit	Total
Structural Steel Repair	Pound	350
Bolt Replacement	Each	4



SECTION A-A



SECTION B-B



COVER PLATE

GIRDER REPAIR DETAIL - ID No. 129

LEGEND

○ Existing fastener to remain

● New bolt in new hole (shop or field drilled)

○ Replace existing fastener with new bolt in existing holes (holes in new material may be field drilled using existing member as a template)

FILE NAME: J:\2022\6041\WO_9\CAD_Sheets\0990008-62V11-030-NB_FRAME_PLAN05.dgn



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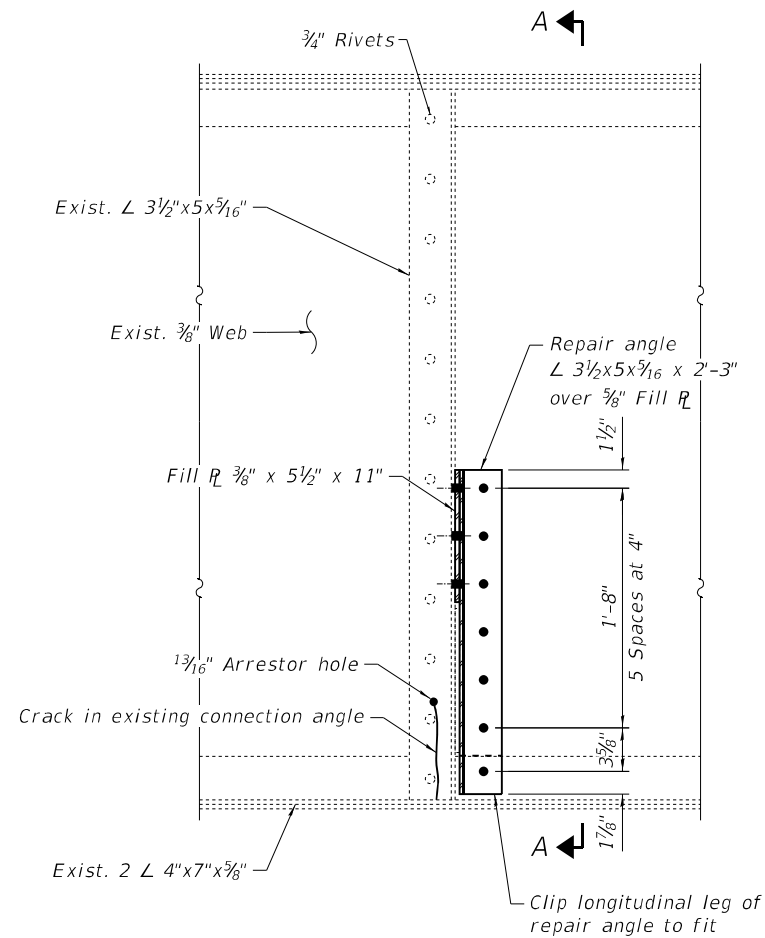
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FRAMING PLAN 5
STRUCTURE NO. 099-0009 (N.B.)

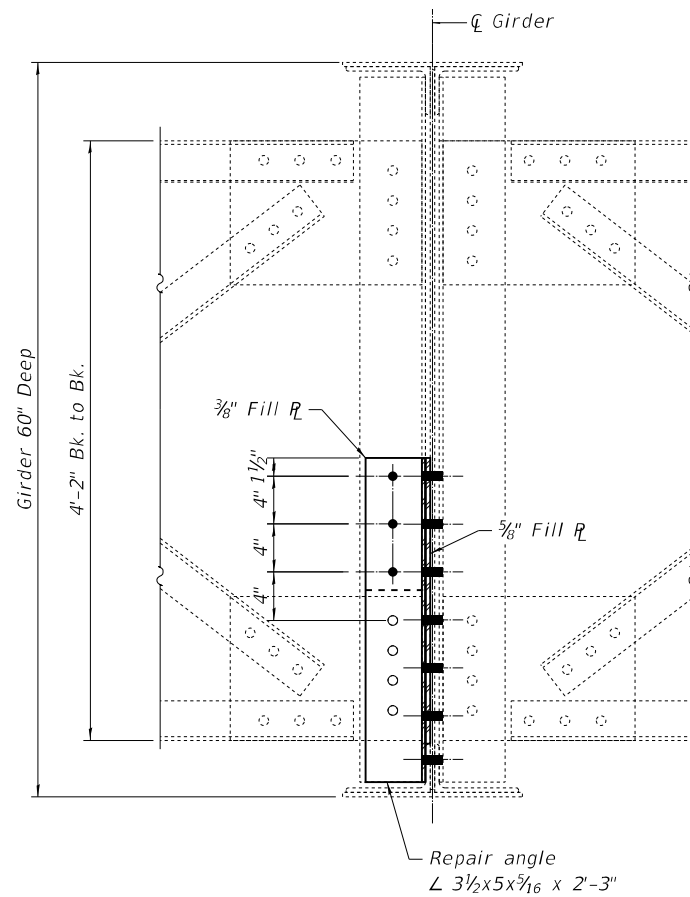
SHEET S-30 OF S-38 SHEETS

FAI RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	FAI 55 23 BR	WILL	67	52
CONTRACT NO. 62V11				

ILLINOIS FED. AID PROJECT: NHPP-2VE5(352)



GIRDER ELEVATION



SECTION A-A

Notes:

Locate tip of crack using liquid dye penetrant or magnetic particle testing. Drill $1\frac{3}{16}$ " min. \varnothing arrestor hole at the crack tip in the existing connection angle. Care shall be taken to not drill into the underlying fill plate or girder web. After arrestor hole has been drilled, dye penetrant or magnetic particle testing shall be used to verify that the drilled hole has captured the tip. Existing steel that will be in contact with the new steel will be cleaned and painted in accordance with the special provision for Cleaning and Painting Contact Surface Areas of Existing Steel Structures for secondary connections. The primer shall be dry to touch prior to connecting new steel to existing steel. The cost of all work to repair girder, including steel removal, material testing and identification, shall be included in the cost for Structural Steel Repair. In reference to the cross frame numbering, the cross frame located at the abutment / pier shall be considered the first cross frame in that span.

GIRDER REPAIR LOCATIONS - STRUCTURE NO. 099-0008 (S.B.)

NBIS 2021 ID No.	NBIS 2023 ID No.	Span	Girder	Location
135		1	3	3rd Cross frame from N. Abutment West
10		1	5	3rd Cross frame from N. Abutment East
19		3	4	3rd Cross frame from N. Abutment Pier 2
	1	1	3	4th Cross frame, from North abutment at girder 3 west side
	2	1	4	5th Cross frame, from North abutment at girder 4 East side
	3	3	4	3rd cross frame from pier 2, at girder 4 West side
	4	3	4	5th Cross frame, from PIER 2 at girder 4 East side

GIRDER REPAIR LOCATIONS - STRUCTURE NO. 099-0009 (N.B.)

NBIS 2021 ID No.	NBIS 2023 ID No.	Span	Girder	Location
5		1	3	3rd Cross frame from N. Abutment
87		7	3	3rd Cross frame from Pier 6
	22	3	4	4th cross frame from pier 2, btwn. Grdr. 3 & Grdr. 4 @ Grdr. 3
	23	3	3	2nd cross frame from pier 3, btwn. Grdr. 2 & Grdr. 3 @ Grdr. 3

LEGEND

- Existing fastener to remain
- New bolt in new hole (shop or field drilled)
- Replace existing fastener with new bolt in existing holes (holes in new material may be field drilled using existing member as a template)

BILL OF MATERIAL

Item	Unit	Total
Structural Steel Repair	Pound	550

FILE NAME: J:\2022\6041\WO_9\CAD_Sheets\0990008-62V11-031-REPAIR DETL01.dgn



745 McClintock Drive
Suite 210
Burr Ridge, IL 60527
Ph: 773-881-4788
Fax: 773-239-3728

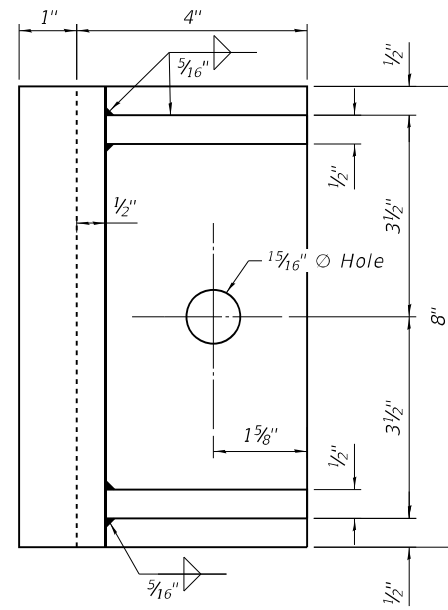
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	CHECKED - SEA	REVISED -
PLOT SCALE = N.T.S.	DRAWN - MBJ	REVISED -
PLOT DATE = 10/19/2023	CHECKED - SEA	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

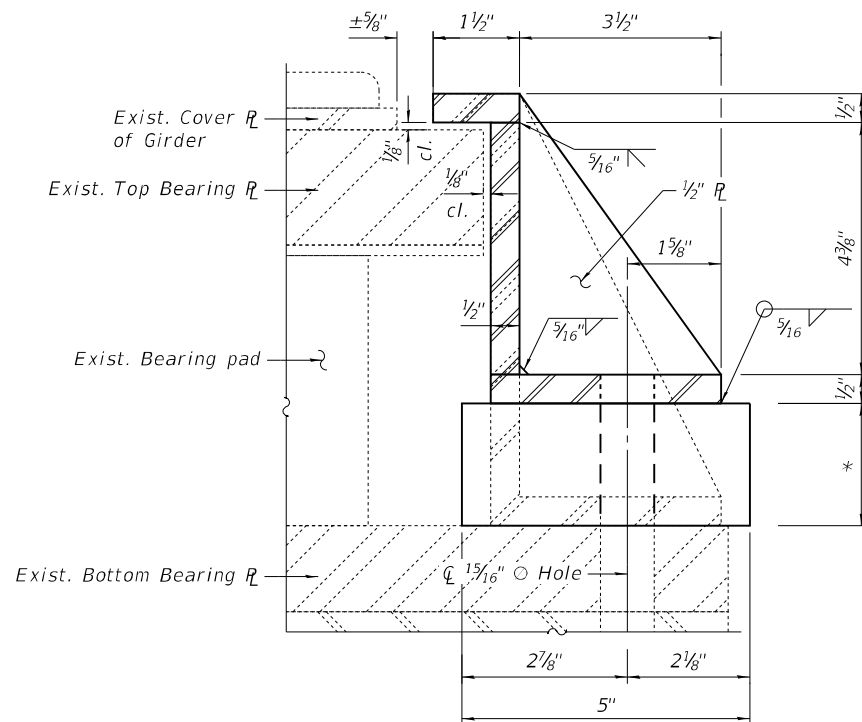
**REPAIR DETAILS 1
STRUCTURE NO. 099-0008 (S.B.) & 099-0009 (N.B.)**

SHEET S-31 OF S-38 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	FAI 55 23 BR	WILL	67	53
CONTRACT NO. 62V11				
ILLINOIS FED. AID PROJECT: NHPP-ZVE5(352)				



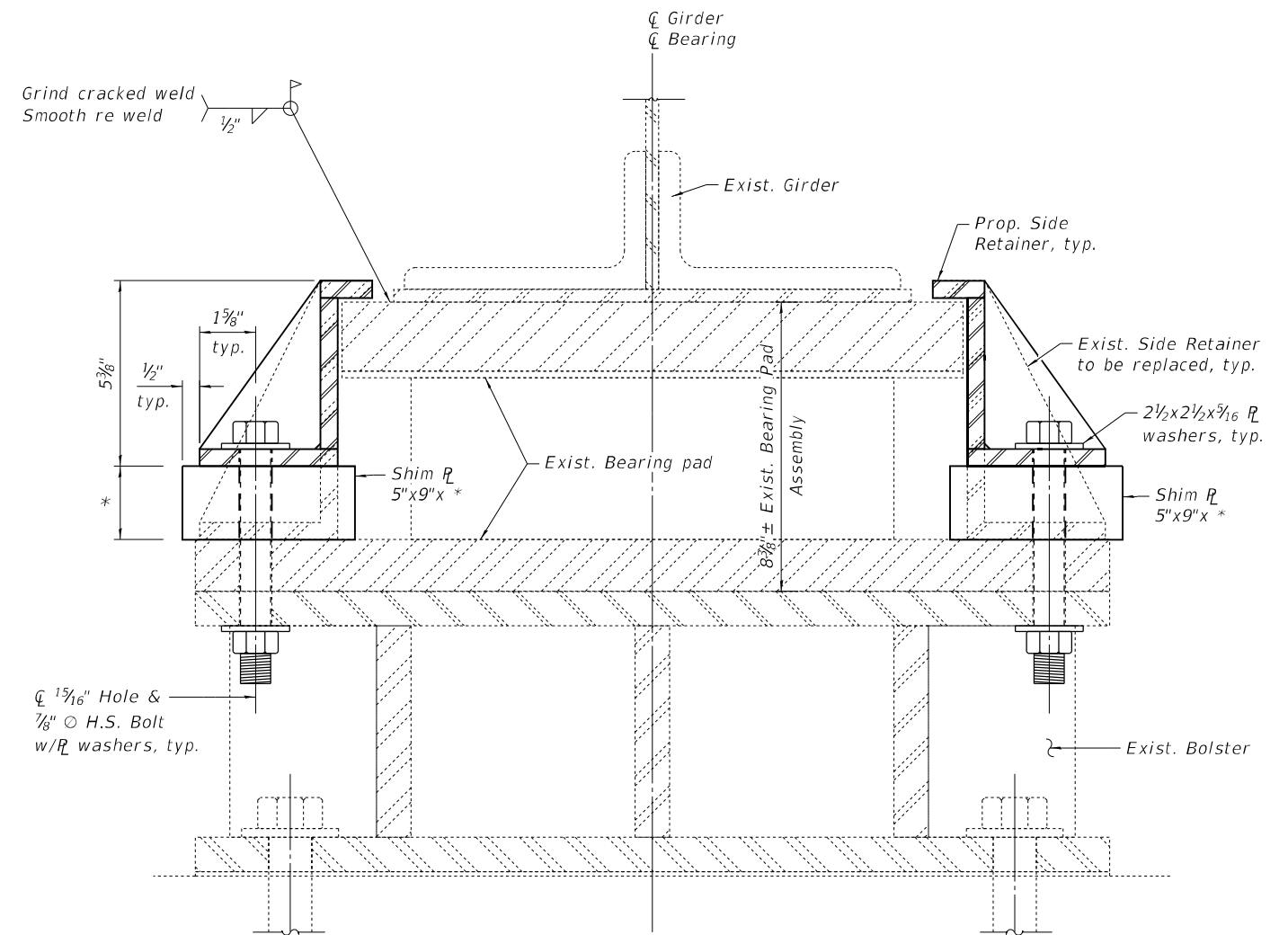
TOP VIEW



SECTION

SIDE RETAINER DETAIL

(12 Required)



ELEVATION

BEARING ASSEMBLY REPAIR - PIER 3 SN 099-0008
GIRDER 3, 4 & 5 - ID Nos. 22, 23 & 24
PIER 2 SN 099-0009 GIRDER 6 - ID No. 17
 (2021 NBIS Report Item)

BEARING ASSEMBLY REPAIR - PIER 3 SN 099-0009
GIRDERS 2 & 4 - ID Nos. 24 & 25
 (2023 NBIS Report Item)

* Pier 3 2 1/8"
 Pier 2 1 7/8"

Notes:
 The cost of all work required to repair bearings, including structural steel, grinding and welding shall be included in the cost of "Steel Structural Repair".

Shim Plates are required. Height adjustment of retainer not allowed.

Bearing assembly repair for Pier 2 same except shim plate is 1 7/8".

BILL OF MATERIAL

Item	Unit	Total
Structural Steel Repair	Pound	480
Cleaning and Painting Bearings	Each	6

FILE NAME: J:\2022\1604\1\WO_9\CAD_Sheets\0990008-62V11-032-REPAIR DETL02.dgn



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 Suite 210
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USER NAME =	DESIGNED - SEA	REVISED -
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PLOT SCALE = N.T.S.	DRAWN - MBJ	REVISED -
PLOT DATE = 10/19/2023	CHECKED - SEA	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

REPAIR DETAILS 2
STRUCTURE NO. 099-0008 (S.B.) & 099-0009 (N.B.)

SHEET S-32 OF S-38 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	FAI 55 23 BR	WILL	67	54
CONTRACT NO. 62V11				
ILLINOIS FED. AID PROJECT: NHPP-ZVE5(352)				

Notes:

Existing steel that will be in contact with the new steel will be cleaned and painted in accordance with the special provision for Cleaning and Painting Contact Surface Areas of Existing Steel Structures for secondary connections. The primer shall be fully cured in accordance with the manufacturer's instructions prior to connecting new steel to existing steel.

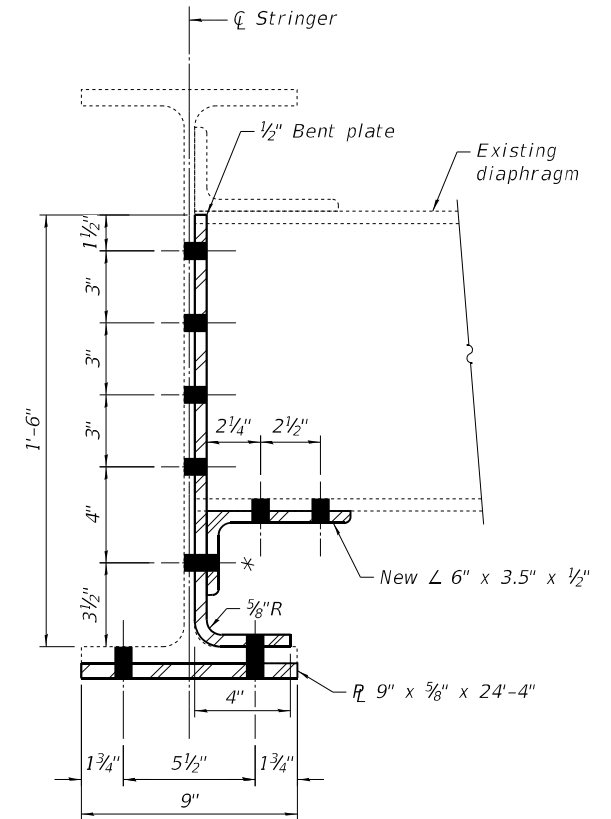
Load carrying components designated "CVN" denotes Charpy-V-Notch impact energy requirements, zone 2.

Existing diaphragm shall be shortened and lower angle replaced to accommodate stringer Structural Steel Repair.

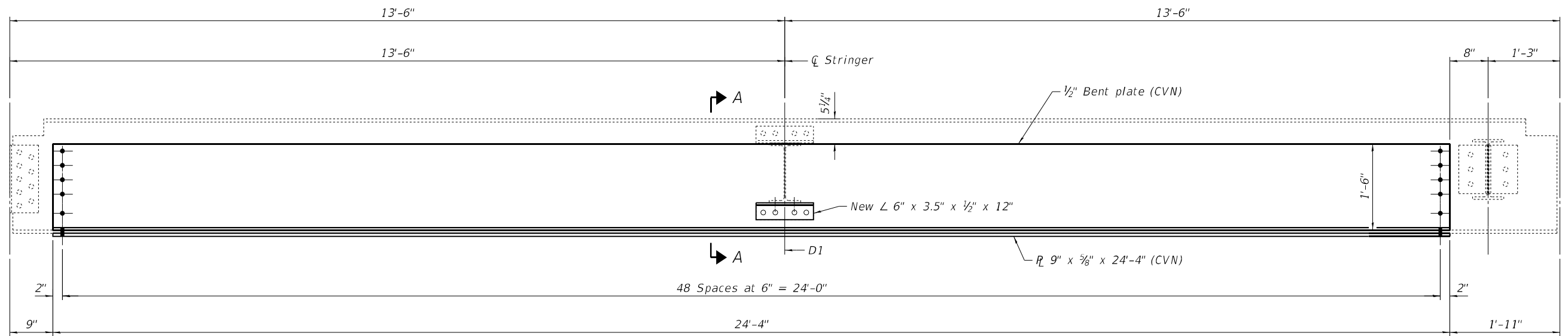
The cost of all work to repair truss section shall be included in the cost for Structural Steel Repair.

LEGEND

- ◊ Existing fastener to remain
- New bolt in new hole (shop or field drilled)
- Replace existing fastener with new bolt in existing holes (holes in new material may be field drilled using existing member as a template)
- * Match existing holes at D1 diaphragm connection angle



SECTION A-A



STRINGER #3 ELEVATION

(Between FB14 and FB15 - Looking East)
2021 NBIS Item No. 75

BILL OF MATERIAL

Item	Unit	Total
Structural Steel Repair	Pound	1640

FILE NAME: J:\2022\6041\WO_9\CAD_Sheets\0990008-62V11-033-REPAIR DETL03.dgn



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USER NAME =	DESIGNED - SEA	REVISED -
PLOT SCALE = N.T.S.	CHECKED - SEA	REVISED -
PLOT DATE = 10/19/2023	DRAWN - MBJ	REVISED -
	CHECKED - SEA	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**REPAIR DETAILS 3
STRUCTURE NO. 099-0008 (S.B.)**

SHEET S-33 OF S-38 SHEETS

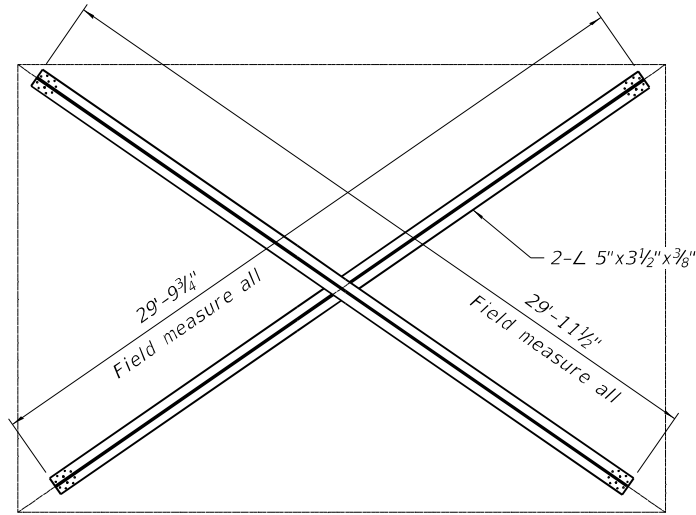
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	FAI 55 23 BR	WILL	67	55
CONTRACT NO. 62V11				
ILLINOIS FED. AID PROJECT: NHPP-ZVE5(352)				

TABLE OF LATERAL REPLACEMENT - S.N. 099-0008 SB

2021 NBIS REPORT ITEM	2023 NBIS REPORT ITEM	LOCATION
	6	L15E - L16E
	9	L15'E - L16'W
	12	L14'M - L13'E
	17	L4'W - L3'E

TABLE OF LATERAL REPLACEMENT - S.N. 099-0009 NB

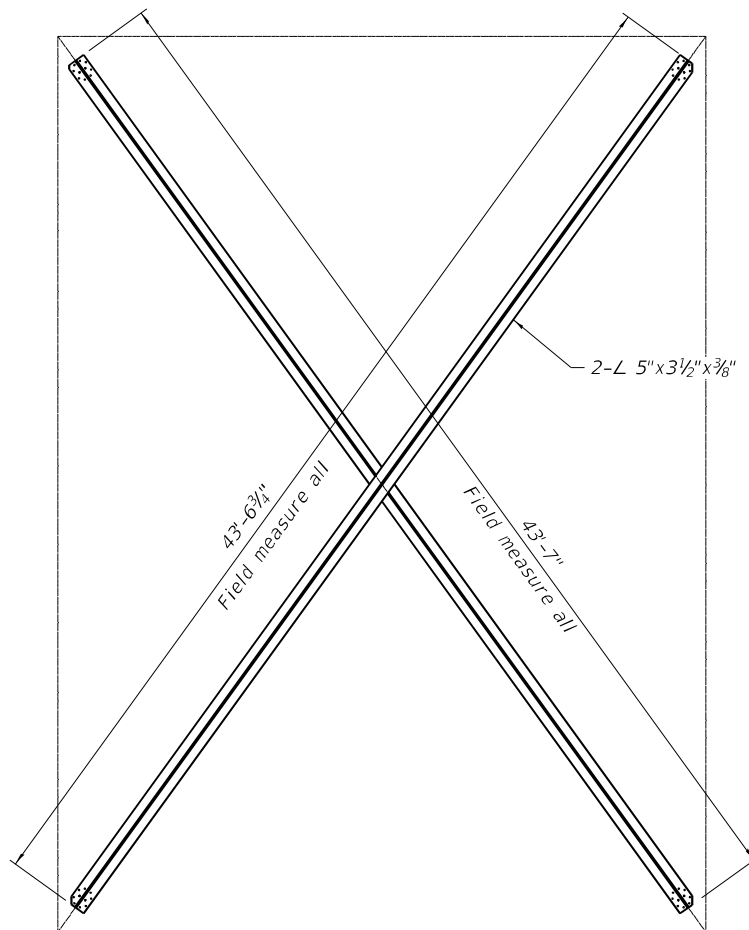
2021 NBIS REPORT ITEM	2023 NBIS REPORT ITEM	LOCATION
99		L13W to Mid Span Floor Beam 14, Last 12' from L13W
	28	L6E - L 7W
	35	L13E - Midspan floor beam 14
	36	Midspan Floor Beam 13 - L14W
	37	L14W - L15e
	38	L15W - L16E
	39	L15E - L16W
	40	L17W - L16E
	41	L17E - L16W
	45	L16'E - L15'W
	47	L13'W - Mid Floor beam 12'
96		L7E - L8W



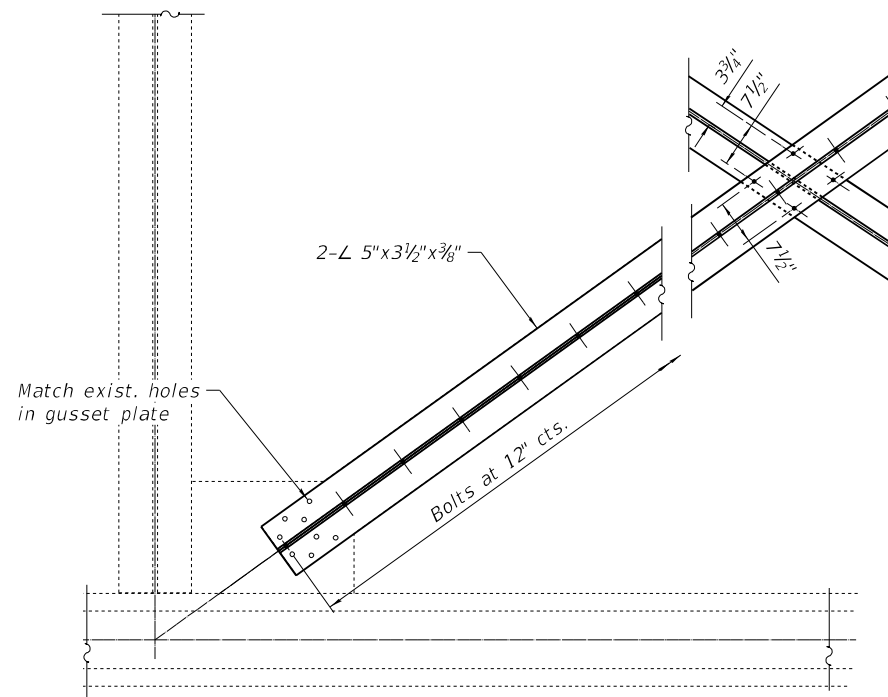
BOTTOM CHORD LATERAL AT EXPANSION JOINTS

Notes:

Existing steel that will be in contact with the new steel will be cleaned and painted in accordance with the special provision for Cleaning and Painting. Contact Surface Areas of Existing Steel Structures for secondary connections. The primer shall be dry to touch prior to connecting new steel to existing steel. The cost of all work to repair girder, including steel removal, material testing and identification, shall be included in the cost for Structural Steel Repair.



BOTTOM CHORD LATERAL



BOTTOM CHORD LATERAL DETAIL

LEGEND

- Existing fastener to remain
- New bolt in new hole (shop or field drilled)
- Replace existing fastener with new bolt in existing holes (holes in new material may be field drilled using existing member as a template)

BILL OF MATERIAL

Item	Unit	Total
Structural Steel Repair	Pound	13750

FILE NAME: J:\2022\6041\WO_9\CAD_Sheets\0990008-62V11-034-REPAIR DETL04.dgn



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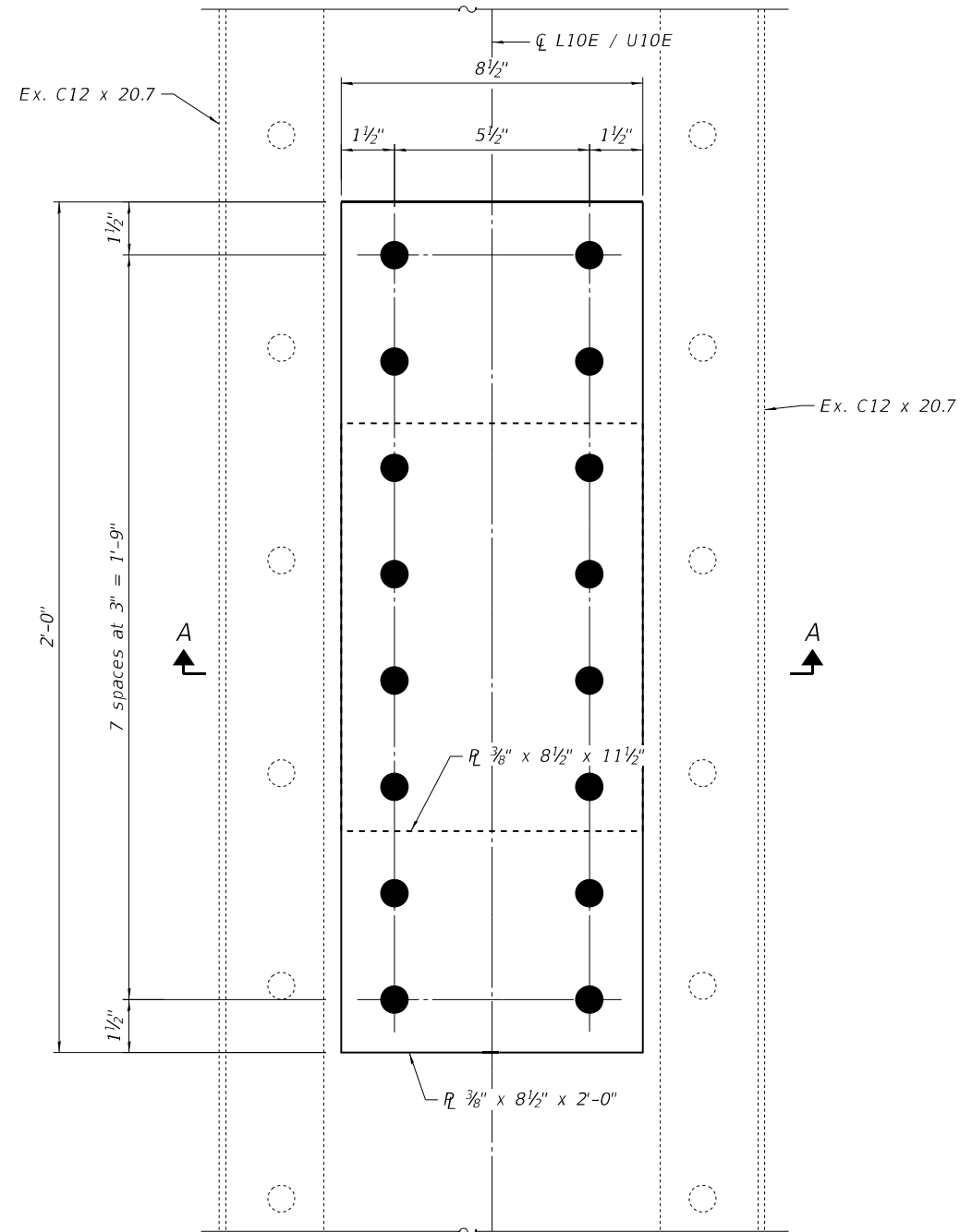
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PLOT DATE = 10/19/2023	CHECKED - SEA	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**REPAIR DETAILS 4
STRUCTURE NO. 099-0008 (S.B.) & 099-0009 (N.B.)**

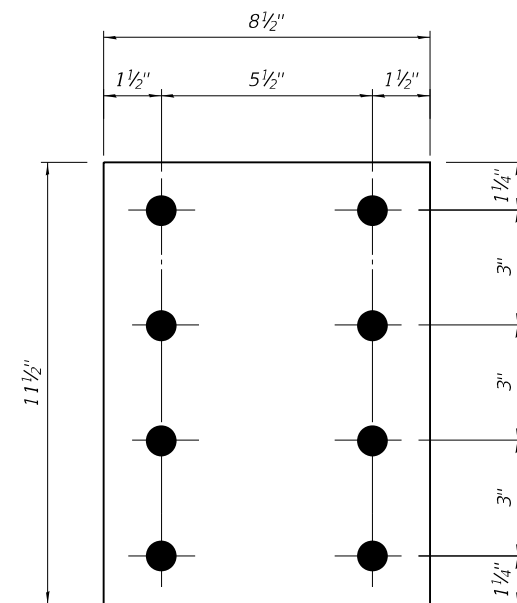
SHEET S-34 OF S-38 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	FAI 55 23 BR	WILL	67	56
CONTRACT NO. 62V11				
ILLINOIS FED. AID PROJECT: NHPP-ZVE5(352)				

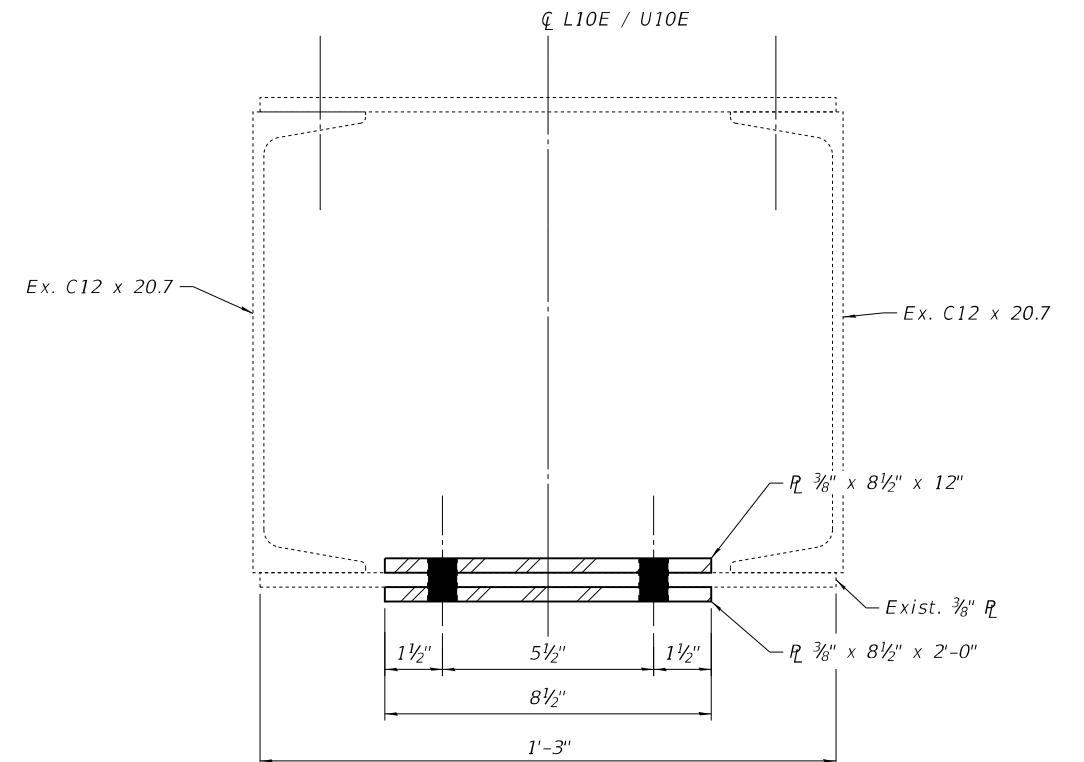


ELEVATION

STRUCTURAL STEEL REPAIR - ITEM #97
(2021 NBIS REPORT ITEM)



INNER PLATE



SECTION A-A

LEGEND

- Existing fastener to remain
- New bolt in new hole (shop or field drilled)
- Replace existing fastener with new bolt in existing holes (holes in new material may be field drilled using existing member as a template)

BILL OF MATERIAL

Item	Unit	Total
Structural Steel Repair	Pound	50

FILE NAME: J:\2022\1604\1\WO_9\CAD_Sheets\0990008-62\11-035-REPAIR DETL05.dgn



745 McClintock Drive
Suite 210
Burr Ridge, IL 60527
Ph. 773-881-4788
Fax: 773-239-3728

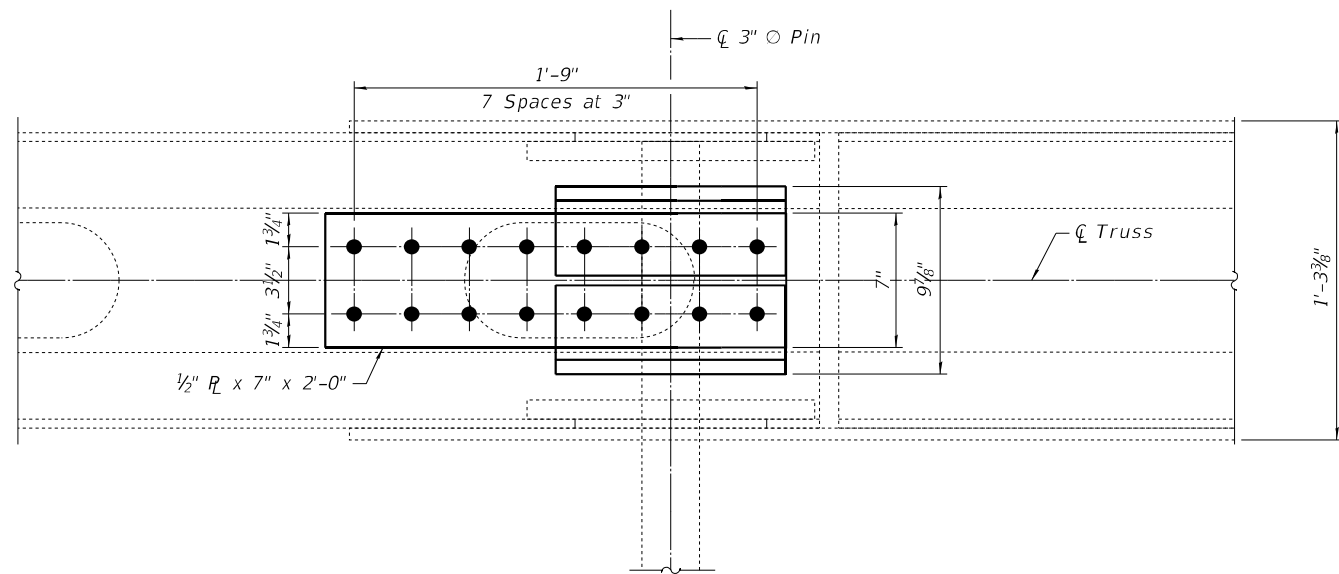
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

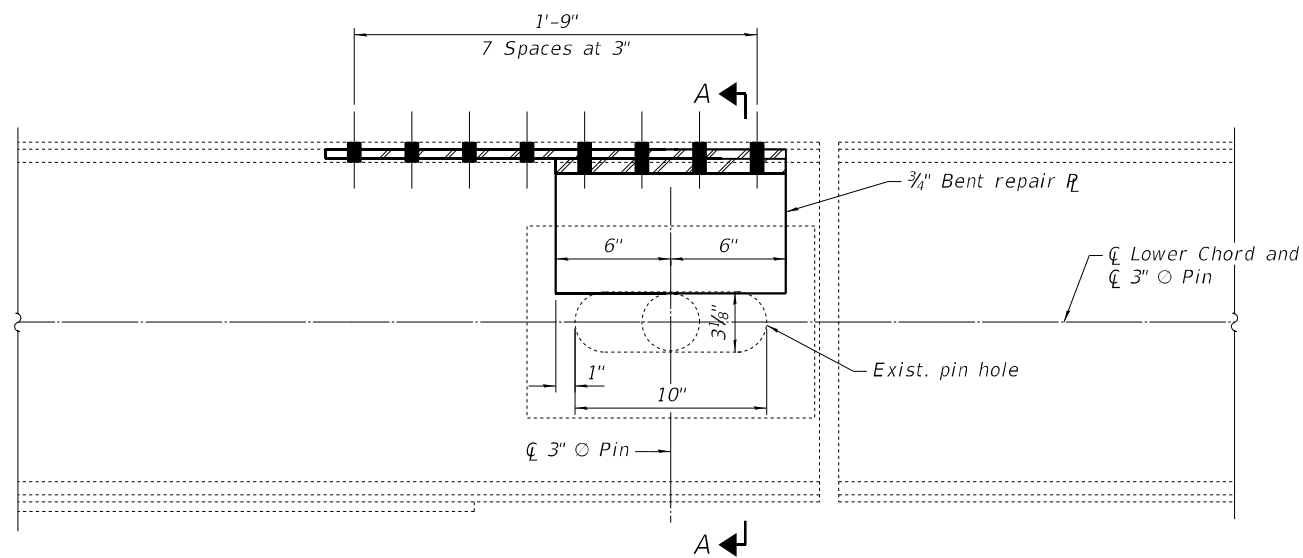
**REPAIR DETAILS 5
STRUCTURE NO. 099-0009 (N.B.)**

SHEET S-35 OF S-38 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	FAI 55 23 BR	WILL	67	57
CONTRACT NO. 62V11				
ILLINOIS FED. AID PROJECT: NHPP-ZVE5(352)				



PLAN



ELEVATION

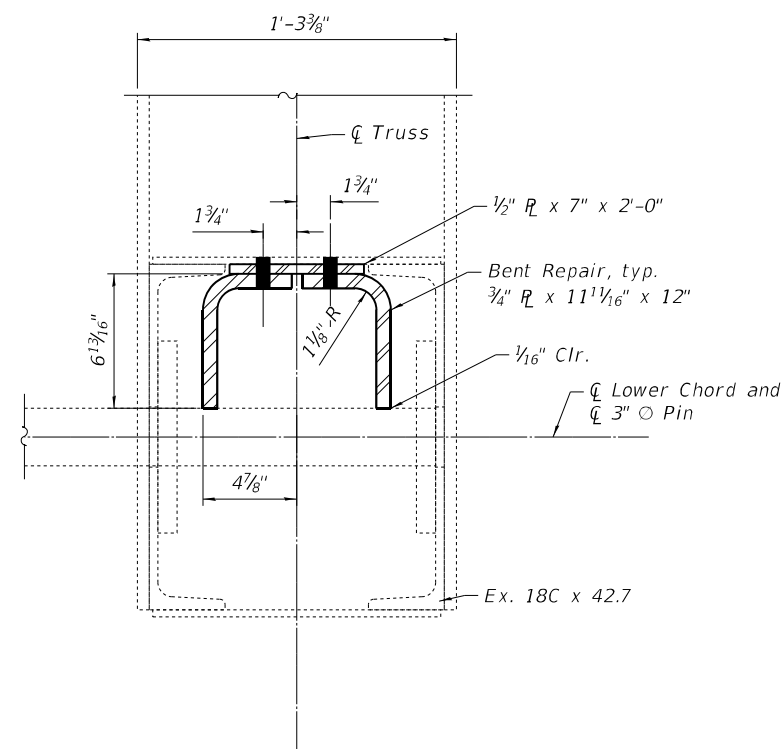
PP13 - ID No. 42
(2021 NBIS REPORT ITEM)

Notes:

Existing steel that will be in contact with the new steel will be cleaned and painted in accordance with the special provision for Cleaning and Painting Contact Surface Areas of Existing Steel Structures for secondary connections. The primer shall be fully cured in accordance with the manufacturer's instructions prior to connecting new steel to existing steel.

LEGEND

- ⊙ Existing fastener to remain
- New bolt in new hole (shop or field drilled)
- Replace existing fastener with new bolt in existing holes (holes in new material may be field drilled using existing member as a template)



SECTION A-A

BILL OF MATERIAL

Item	Unit	Total
Structural Steel Repair	Pound	100

FILE NAME: J:\2022\6041\WO_9\CAD_Sheets\0990008-62V11-036-REPAIR DETL06.dgn



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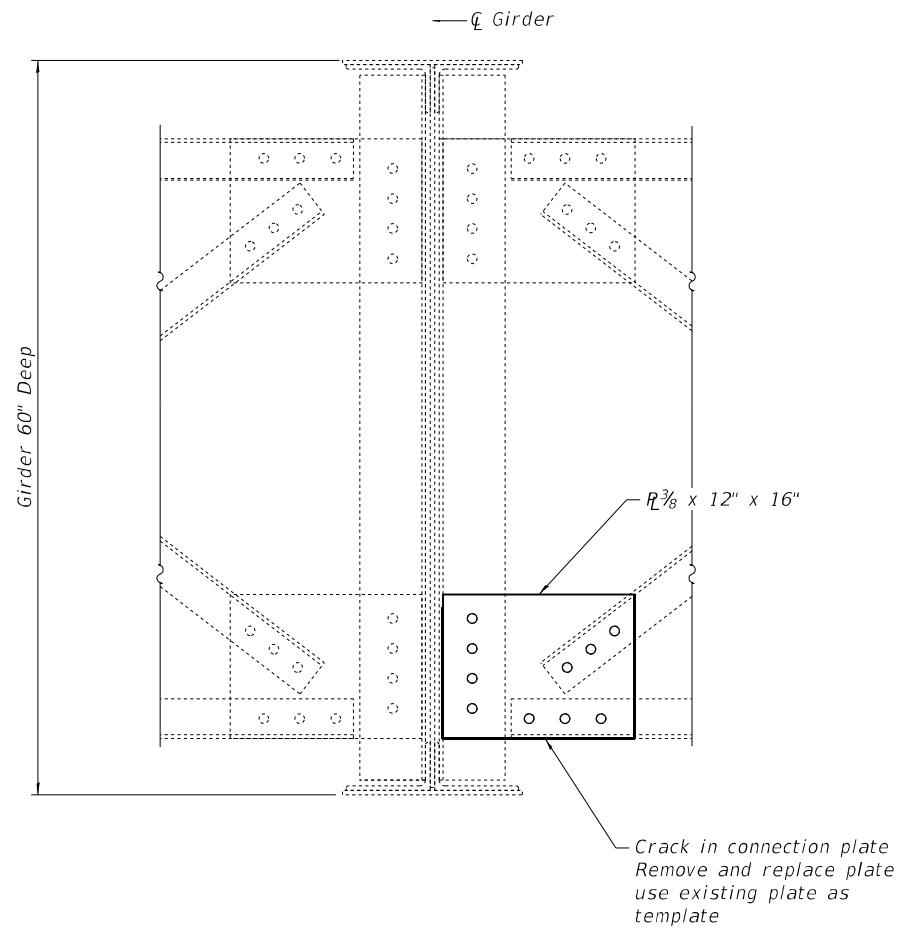
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PLOT DATE = 10/19/2023	CHECKED - SEA	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

REPAIR DETAILS 6
STRUCTURE NO. 099-0009 (N.B.)

SHEET S-36 OF S-38 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	FAI 55 23 BR	WILL	67	58
CONTRACT NO. 62V11				
ILLINOIS FED. AID PROJECT: NHPP-ZVE5(352)				



SECTION
(2023 NBIS Report Item no. 2)

Notes:

Existing steel that will be in contact with the new steel will be cleaned and painted in accordance with the special provision for Cleaning and Painting Contact Surface Areas of Existing Steel Structures for secondary connections. The primer shall be dry to touch prior to connecting new steel to existing steel. The cost of all work to repair girder, including steel removal, material testing and identification, shall be included in the cost for Structural Steel Repair. In reference to the cross frame numbering, the cross frame located at the pier shall be considered the first cross frame in that span.

LEGEND

- Existing fastener to remain
- New bolt in new hole (shop or field drilled)
- Replace existing fastener with new bolt in existing holes (holes in new material may be field drilled using existing member as a template)

BILL OF MATERIAL

Item	Unit	Total
Structural Steel Repair	Pound	30

FILE NAME: J:\2022\6041\WO_9\CAD_Sheets\0990008-62V11-037-REPAIR DETL07.dgn



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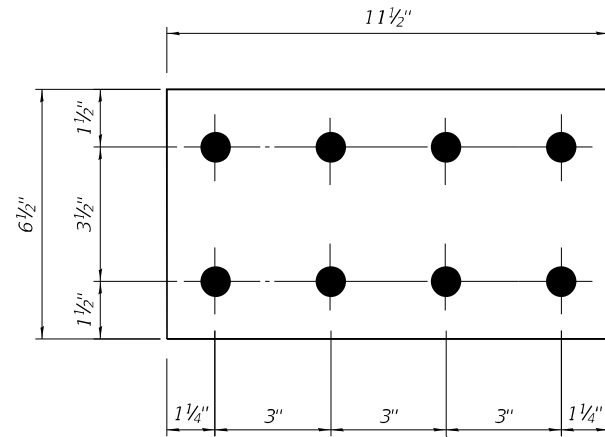
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

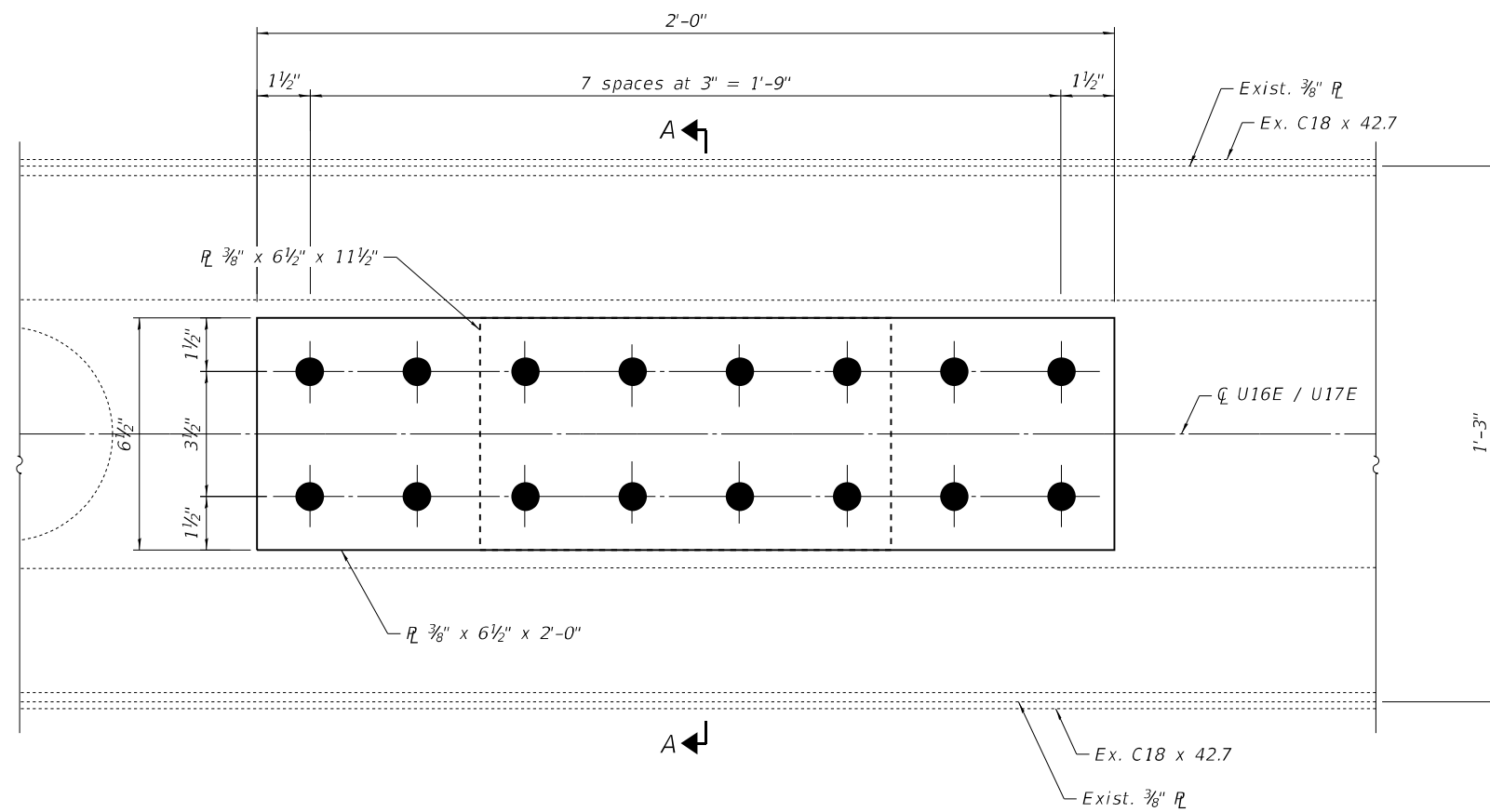
**REPAIR DETAILS 7
STRUCTURE NO. 099-0008 (S.B.)**

SHEET S-37 OF S-38 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	FAI 55 23 BR	WILL	67	59
CONTRACT NO. 62V11				
ILLINOIS FED. AID PROJECT: NHPP-ZVE5(352)				

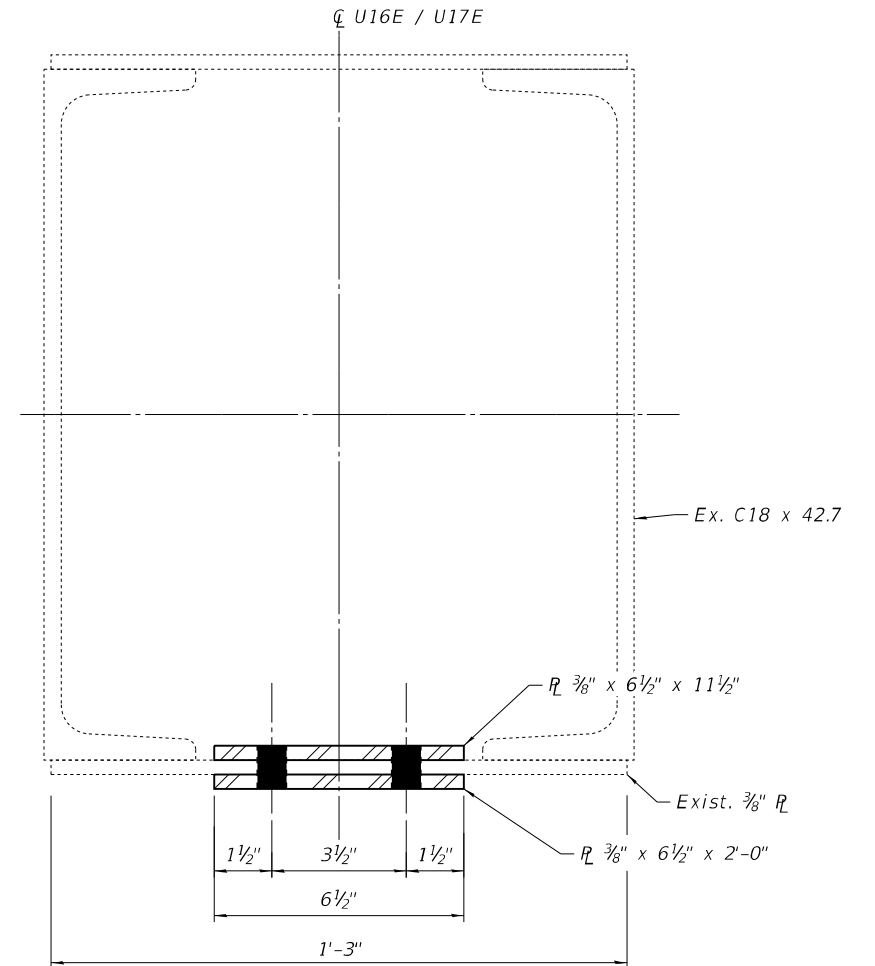


INNER PLATE



BOTTOM VIEW

STRUCTURAL STEEL REPAIR - ITEM #7
(2023 NBIS Report)



SECTION A-A

LEGEND

- Existing fastener to remain
- New bolt in new hole (shop or field drilled)
- Replace existing fastener with new bolt in existing holes (holes in new material may be field drilled using existing member as a template)

BILL OF MATERIAL

Item	Unit	Total
Structural Steel Repair	Pound	40

FILE NAME: J:\2022\6041\WO_9\CAD_Sheets\0990008-62V11-038-REPAIR DETL08.dgn



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Burr Ridge, IL 60527
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Fax: 773-239-3728

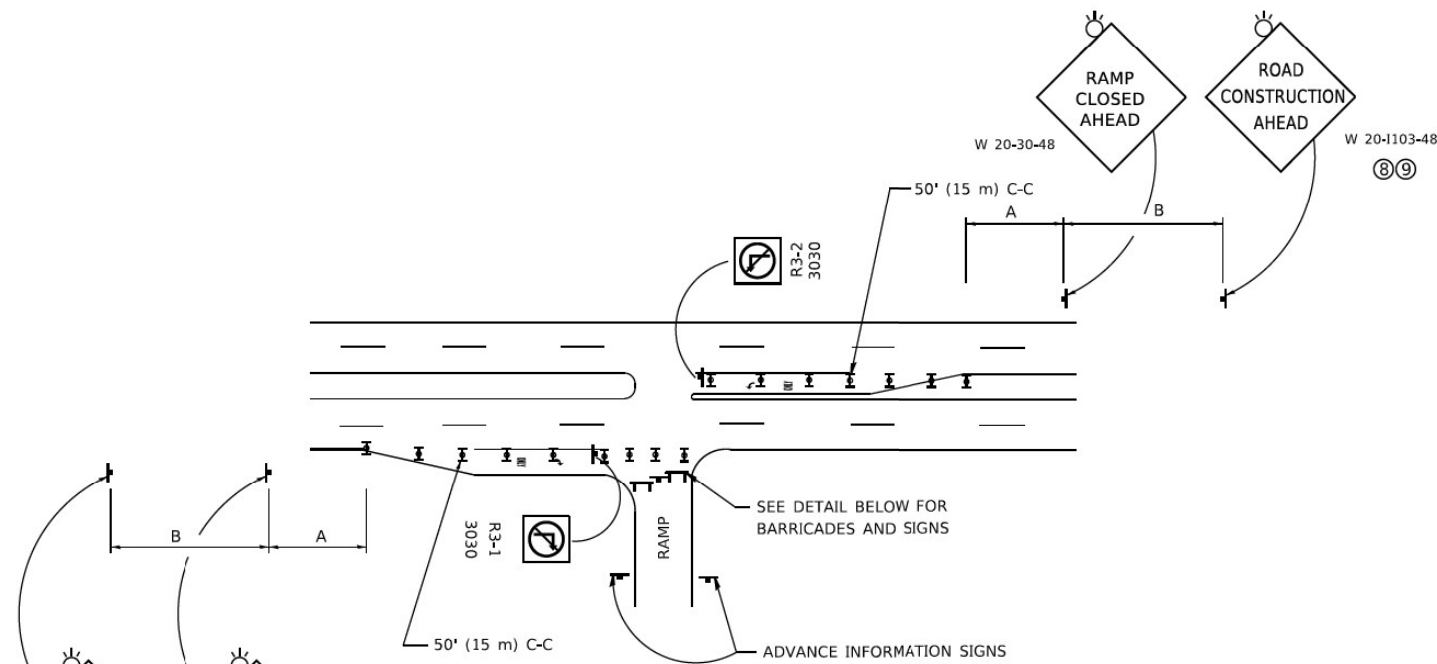
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PLOT SCALE = N.T.S.	CHECKED - SEA	REVISED -
PLOT DATE = 10/19/2023	DRAWN - MBJ	REVISED -
	CHECKED - SEA	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**REPAIR DETAILS 8
STRUCTURE NO. 099-0008 (S.B.)**

SHEET S-38 OF S-38 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	FAI 55 23 BR	WILL	67	60
CONTRACT NO. 62V11				
ILLINOIS FED. AID PROJECT: NHPP-ZVE5(352)				

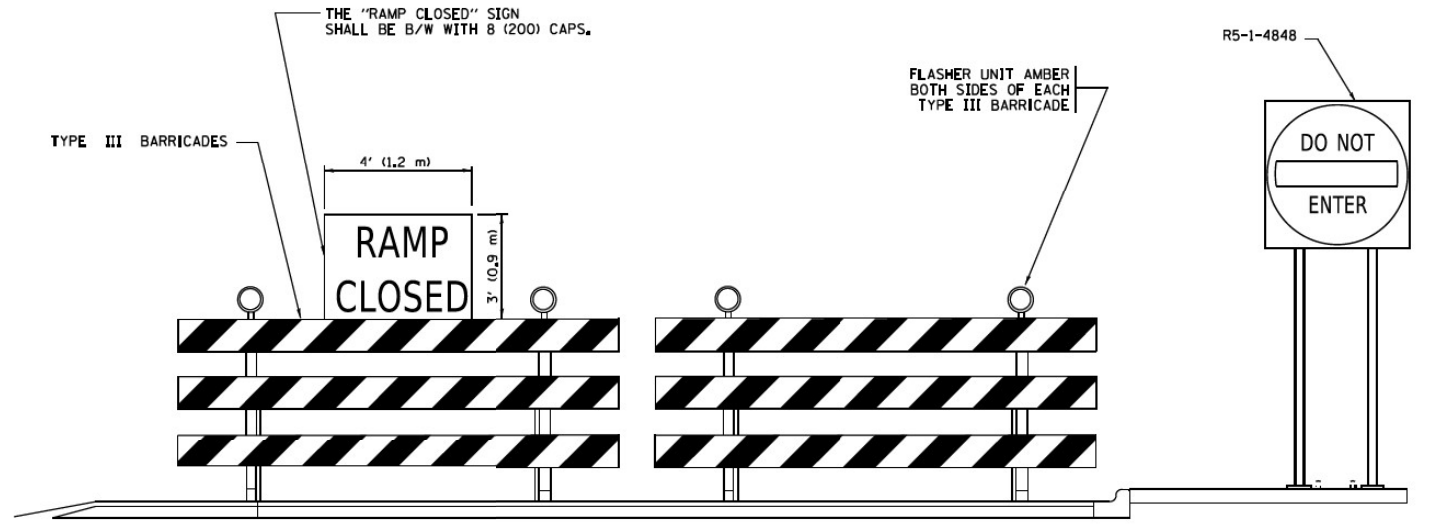
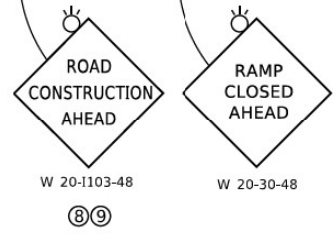


ENTRANCE RAMP CLOSURE

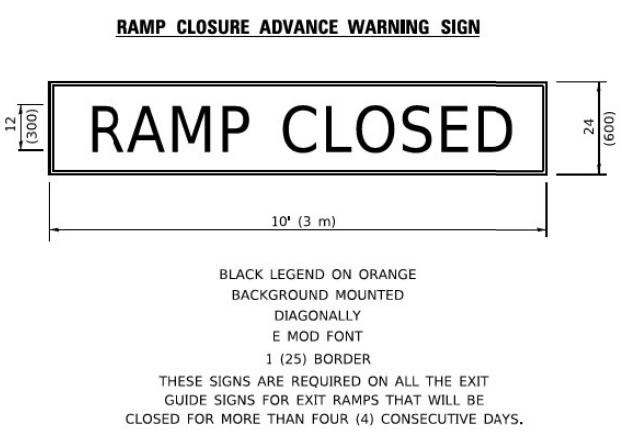
SIGN SPACING TABLE

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)

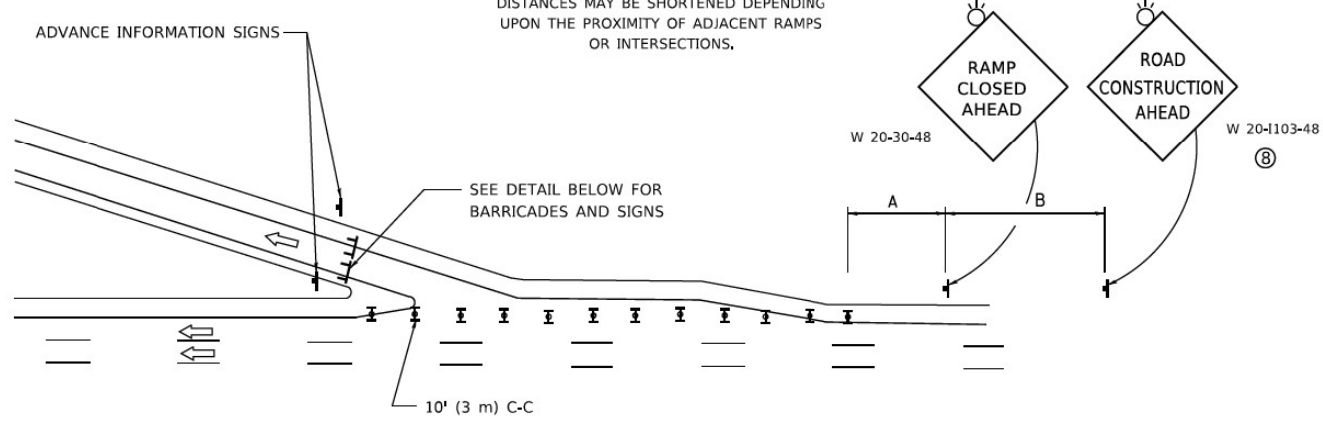
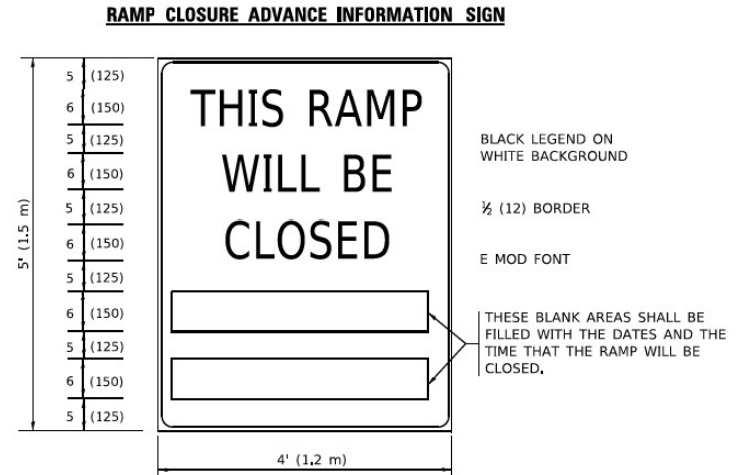
DISTANCES MAY BE SHORTENED DEPENDING UPON THE PROXIMITY OF ADJACENT RAMPS OR INTERSECTIONS.



DETAIL FOR REQUIRED BARRICADES & SIGNS



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



EXIT RAMP CLOSURE

- SYMBOLS**
- ▬ TYPE II BARRICADE OR DRUM
 - ▬ TYPE III BARRICADE WITH 2 FLASHING LIGHTS

GENERAL NOTES:

- 1 CONES MAY BE SUBSTITUTED FOR DRUMS OR TYPE II BARRICADES DURING DAY OPERATIONS. CONES SHALL BE A MINIMUM OF 28 (700) HIGH.
- 2 VERTICAL BARRICADES SHALL NOT BE USED FOR RAMP CLOSURES.
- 3 A FLAGGER SHALL BE POSITIONED AT EACH CLOSED RAMP THAT IS OPEN TO CONSTRUCTION VEHICLES, PRECEDED BY A W20-7 FLAGGER WARNING SIGN.
- 4 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.
- 5 THE SIGNING AND BARRICADING WHICH IS REQUIRED BY THIS DETAIL SHALL BE INCLUDED IN THE COST OF TRAFFIC CONTROL AND PROTECTION (EXPRESSWAYS).
- 6 AUTHORIZATION FROM THE DISTRICT'S BUREAU OF TRAFFIC IS REQUIRED FOR ALL RAMP CLOSURES.
- 7 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.
- 8 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.
- 9 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.

MODEL: Default; FILE: M:\11616\11616.dwg; PLOT DATE: 11/17/2023; PLOT SCALE: 1/8"=1'-0"; PLOT AREA: 11.17/2023

ABNA
DESIGN FIRM REG. 184.002117

745 McClintock Drive
Suite 210
Burr Ridge, IL 60527
Ph: 773-881-4788
Fax: 773-239-3720

USER NAME = tpaolcchl	DESIGNED - TPP	REVISED -
PLOT SCALE = 60.000' / in.	DRAWN - JO	REVISED -
PLOT DATE = 11/17/2023	CHECKED - OJ	REVISED -
	DATE - 5/31/2023	REVISED -

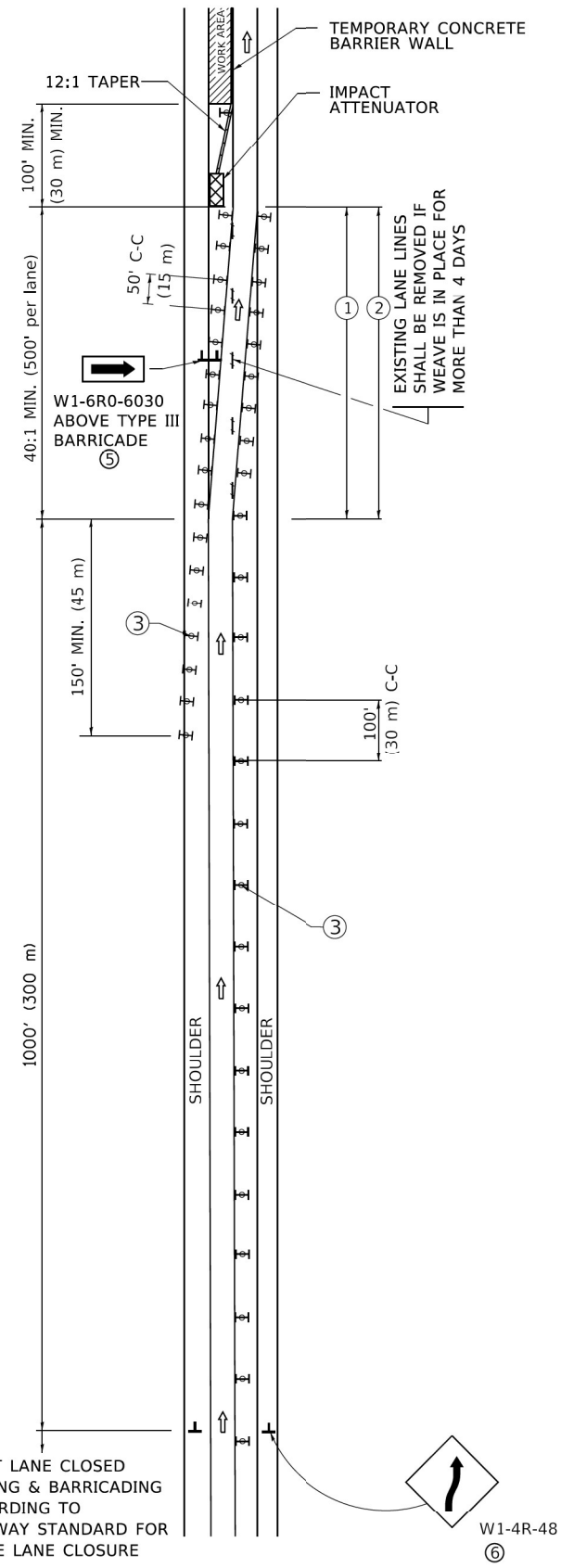
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**ENTRANCE AND EXIT RAMP
CLOSURE DETAILS TC-08**

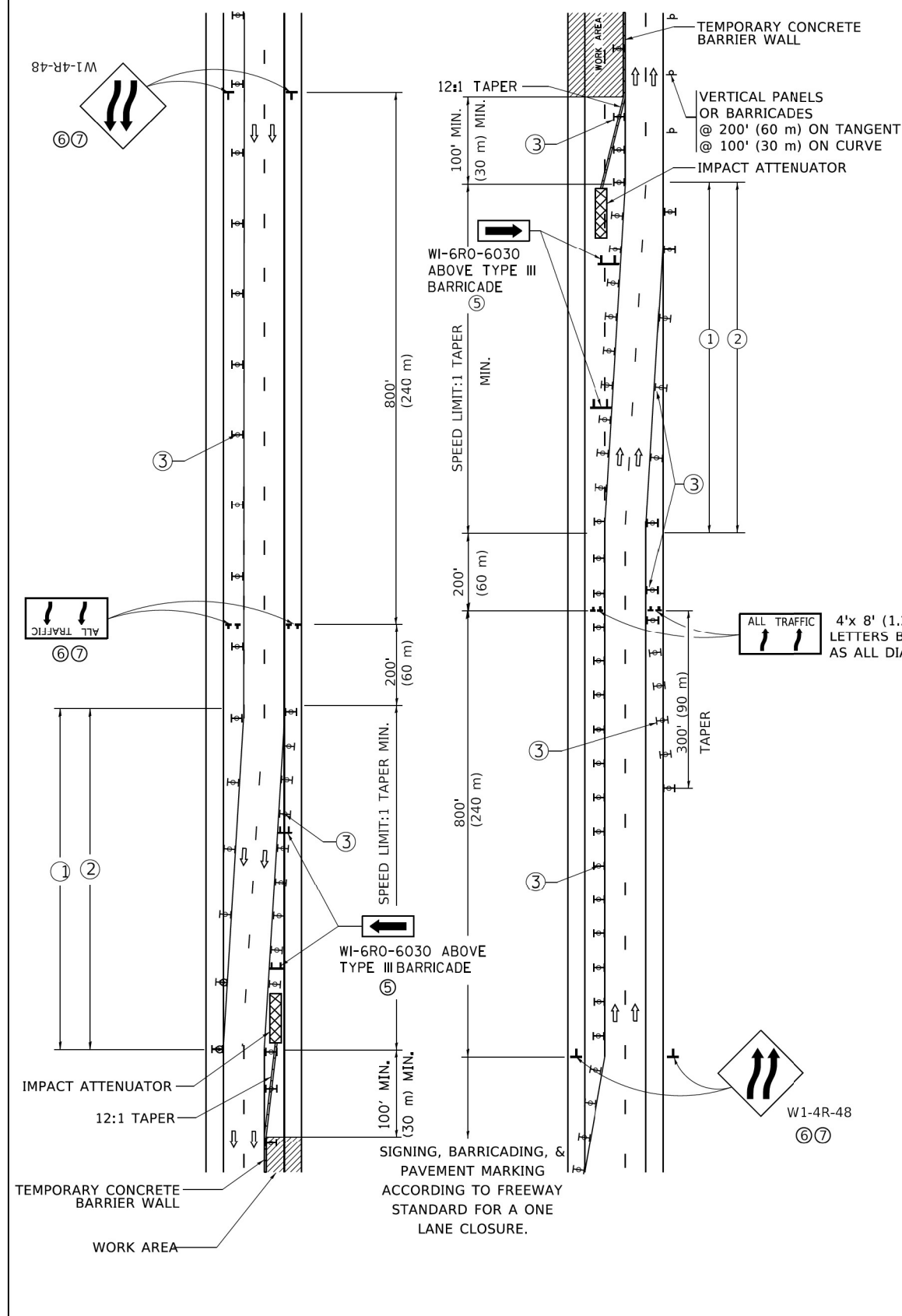
SCALE: NTS SHEET 1 OF 7 SHEETS STA. TO STA.

F.A.I. RTE. 55	SECTION FAI 55 23 BR	COUNTY WILL	TOTAL SHEETS 67	SHEET NO. 60A
ILLINOIS FED. AID PROJECT			CONTRACT NO. 62V11	

SINGLE LANE WEAVE



MULTI-LANE WEAVE



GENERAL NOTES:

- ① EXISTING CONFLICTING PAVEMENT MARKING LINES SHALL BE REMOVED. PAVEMENT MARKING REMOVAL SHALL NOT BE REQUIRED FOR SINGLE LANE WEAVES UNDER 4 DAYS IN DURATION.
- ② CONTINUOUS REFLECTIVE TEMPORARY PAVEMENT MARKING TAPE SHALL BE PLACED THROUGHOUT THE TAPER AND FOR 300' (90 m) ALONG SIDE THE WORK AREA WHERE THE CLOSURE TIME IS GREATER THAN FOURTEEN DAYS. THE LEFT EDGE LINE SHALL BE YELLOW AND THE RIGHT EDGE LINE SHALL BE WHITE. FOR MULTI-LANE WEAVES LANE LINES SHALL BE 5 INCH, 10'-30' (3 m-9 m) SKIP DASH, WHITE.
- ③ PLASTIC DRUMS WITH STEADY BURN LIGHTS AT 50' (15 m) C-C SPACING IN TAPERS AND 100' (30 m) C-C SPACING IN TANGENTS.
- ④ ALL SIGNS SHALL BE POST MOUNTED IF THE CLOSURE TIME EXCEEDS FOUR DAYS.
- ⑤ TYPE III BARRICADES MAY BE OMITTED FOR SINGLE-LANE WEAVES UNDER 24-HOURS IN DURATION. W1-6 SIGNS WILL STILL BE REQUIRED. IF THE WIDTH OF OFFSET IS LESS THAN 6' THEN THE TYPE III BARRICADE WITH ATTACHED ARROW SIGN PANEL CAN BE ELIMINATED IN THE TAPER AREAS.
- ⑥ WHEN THE LENGTH OF THE SHIFTED SEGMENT (DISTANCE BETWEEN WEAVE POINTS) IS LESS THAN 1500', DOUBLE REVERSE CURVE SIGNS (W24-1) SHOULD BE USED INSTEAD OF THE REVERSE CURVE (W1-4) SIGNS. ARROWS ON THE 4'X8' "ALL TRAFFIC" SIGNS SHALL BE THE SAME SHAPE.
- ⑦ THE NUMBER OF ARROWS ON THESE SIGNS SHALL MATCH THE NUMBER OF LANES OPEN TO TRAFFIC.

SYMBOLS

- DIRECTION OF TRAFFIC
- WORK AREA
- SIGN ON PORTABLE OR PERMANENT SUPPORT
- TYPE II BARRICADE OR DRUM WITH MONO-DIRECTIONAL STEADY BURNING LIGHT
- TEMPORARY CONCRETE BARRIER WALL
- IMPACT ATTENUATOR
- W1-4R-48
- W24-1-48

RIGHT LANE CLOSED SIGNING & BARRICADING ACCORDING TO FREEWAY STANDARD FOR A ONE LANE CLOSURE

SIGNING, BARRICADING, & PAVEMENT MARKING ACCORDING TO FREEWAY STANDARD FOR A ONE LANE CLOSURE.

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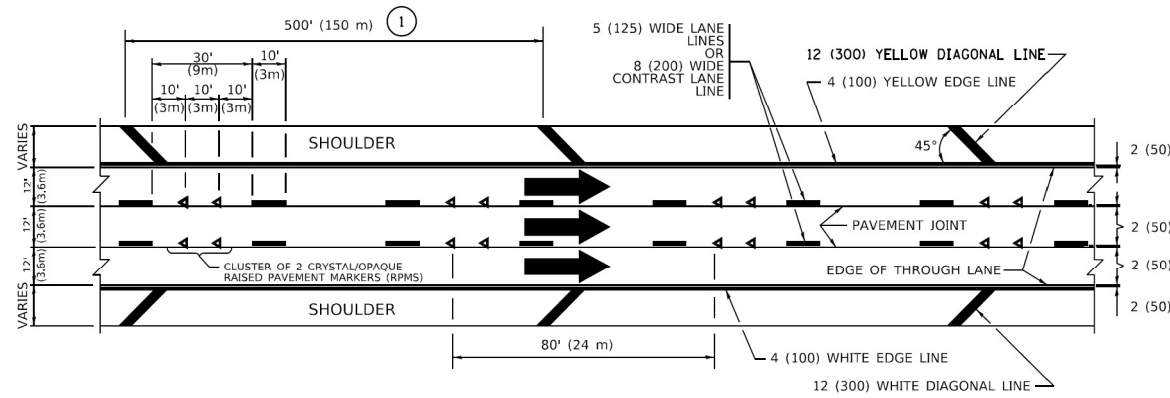
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SINGLE AND MULTI LANE WEAVE
TC-09

SCALE: NTS SHEET 1 OF 7 SHEETS STA. TO STA.

ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN

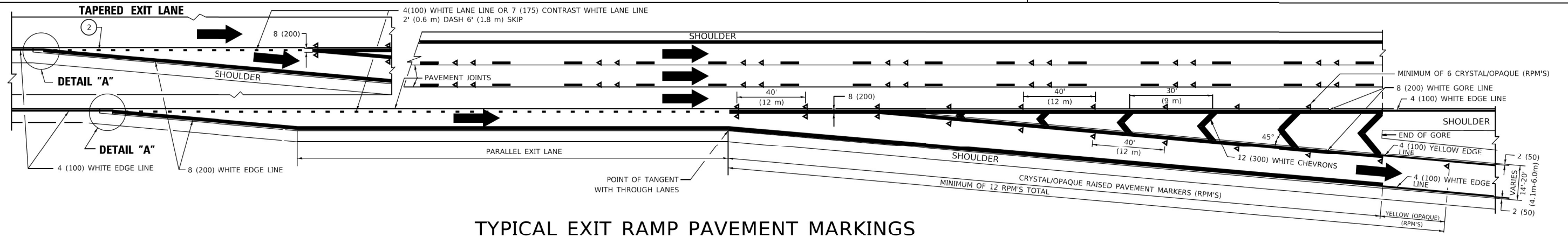
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55	FAI 55 23 BR	WILL	67	61
CONTRACT NO. 62V11				
ILLINOIS FED. AID PROJECT				



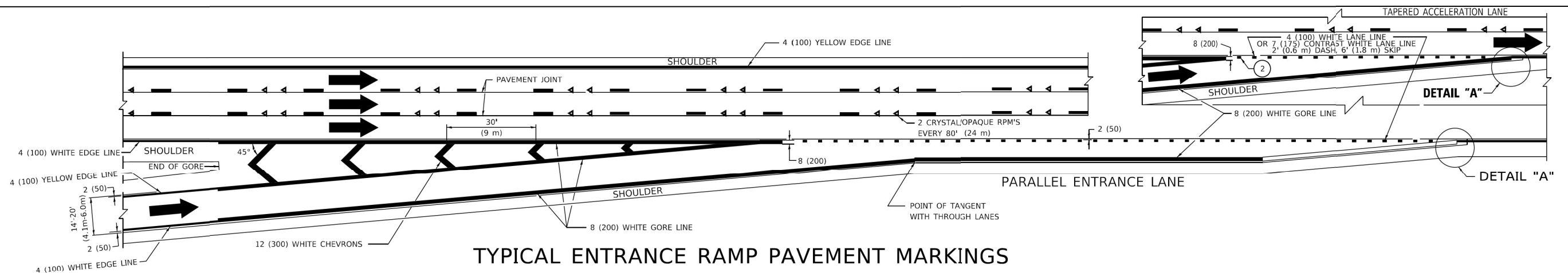
TYPICAL EDGE LINES & LANE LINES

PAVEMENT MARKING MATERIALS

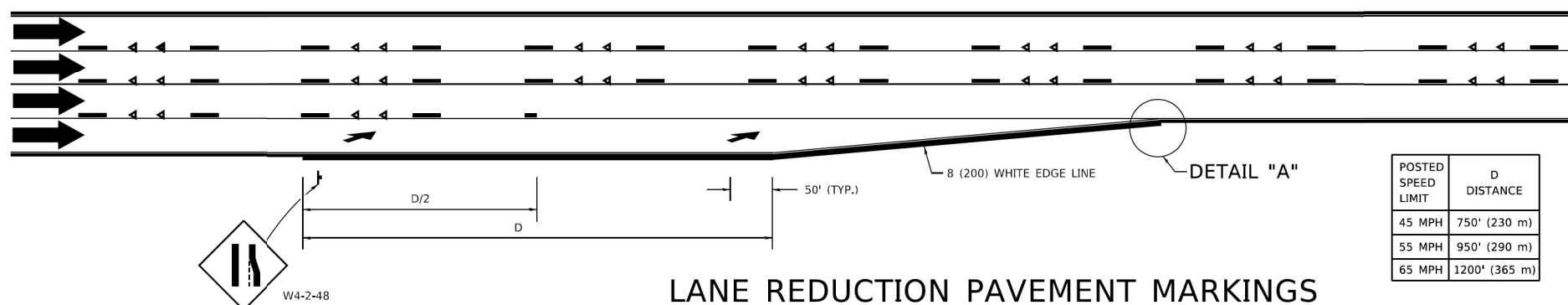
1. THERMOPLASTIC PAVEMENT MARKING LINE SHALL BE USED FOR ALL EDGE LINES, GORE LINES, AND DIAGONAL LINES ON HMA PAVEMENTS.
2. POLYUREA OR MODIFIED URETHANE PAVEMENT MARKING LINE SHALL BE USED FOR ALL EDGE LINES, GORE LINES, AND DIAGONAL LINES ON PCC PAVEMENTS.
3. PREFORMED PLASTIC PAVEMENT MARKING LINE TYPE D, INLAID OR GROOVE IN, SHALL BE USED FOR ALL LANE LINES ON HMA PAVEMENTS.
4. CONTRAST PREFORMED PLASTIC PAVEMENT MARKING LINE TYPE B, GROOVE IN, SHALL BE USED FOR ALL LANE LINES ON PCC PAVEMENT.



TYPICAL EXIT RAMP PAVEMENT MARKINGS



TYPICAL ENTRANCE RAMP PAVEMENT MARKINGS

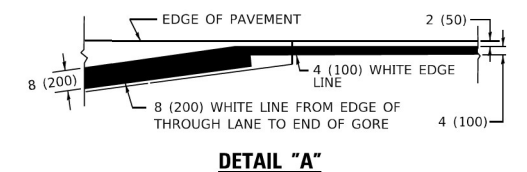


LANE REDUCTION PAVEMENT MARKINGS

POSTED SPEED LIMIT	D DISTANCE
45 MPH	750' (230 m)
55 MPH	950' (290 m)
65 MPH	1200' (365 m)

NOTES:

- ① THE DIAGONAL LINES SHALL BE SPACED AT 40' (12 m) C-C ACROSS ALL STRUCTURES WHICH ARE 500' (150 m) OR LESS IN LENGTH. THE DIAGONAL LINES ARE NOT REQUIRED ON SHOULDERS WHICH ARE 6' (1.8 m) OR LESS IN WIDTH.
- ② 4" (2' DASH, 6' SKIP) MARKING ON TAPERED ENTRANCE AND EXIT RAMP SHALL BE OMITTED ON TANGENT SECTIONS.



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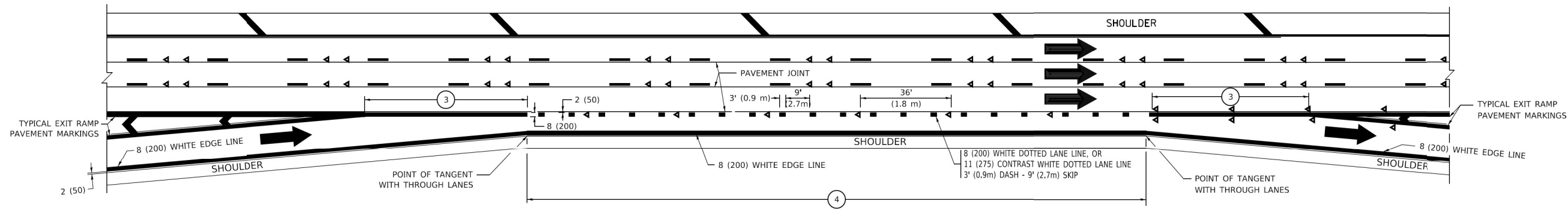
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

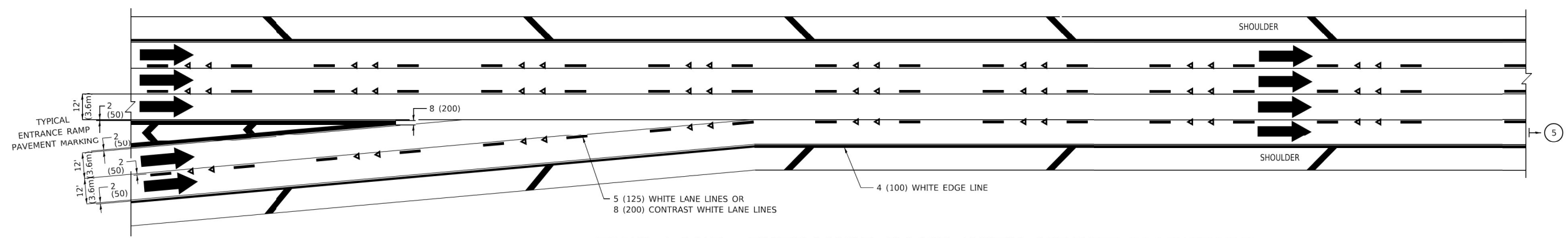
MULTI-LANE FREEWAY PAVEMENT MARKING DETAILS
TC-12

SCALE: NTS SHEET 2 OF 7 SHEETS STA. TO STA.

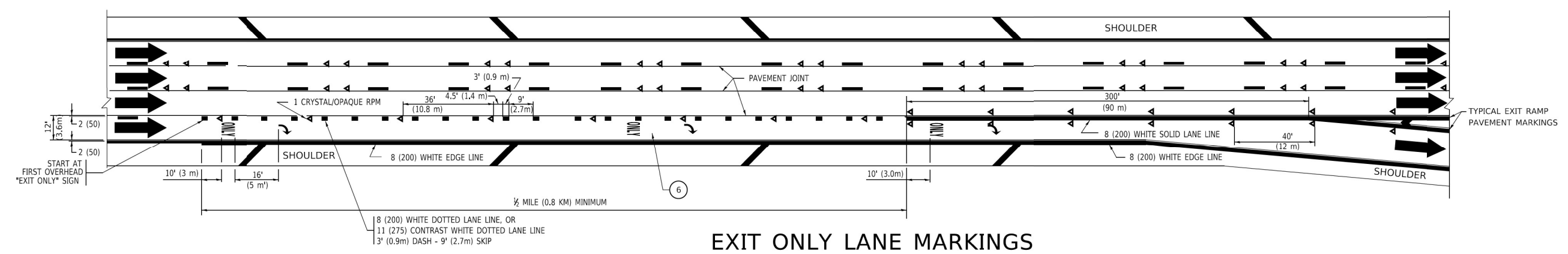
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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CONTRACT NO. 62V11				
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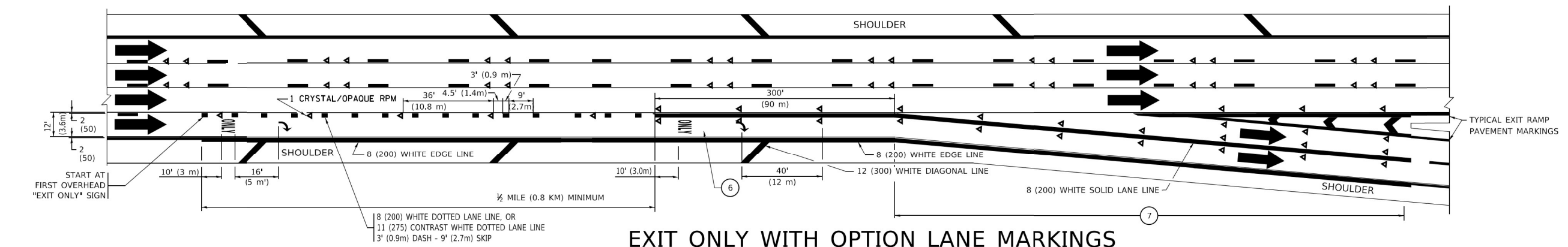
AUXILIARY LANE MARKINGS



TWO LANE ENTRANCE RAMP WITH MERGE MARKINGS



EXIT ONLY LANE MARKINGS



EXIT ONLY WITH OPTION LANE MARKINGS

- NOTES:**
- ③ OMIT WHEN LENGTH OF AUXILIARY LANE IS LESS THAN 500' (150 m).
 - ④ 8-INCH WIDE DOTTED LANE LINE MARKINGS SHALL BE USED WHEN THE LENGTH OF THE AUXILIARY LANE IS 2 MILES OR LESS.
 - ⑤ FOR TWO-LANE ENTRANCE RAMP, IF RIGHT LANE ENDS, USE TYPICAL ENTRANCE RAMP PAVEMENT MARKINGS.
 - ⑥ ONLY AND ARROWS EQUALLY SPACED, 500' (150 m) MAXIMUM SPACING. FULL SIZE LETTERS AND ARROW SHALL BE USED..
 - ⑦ CONTINUE 8" SOLID LANE LINE THROUGH EXIT TO END OF PAVED GORE.

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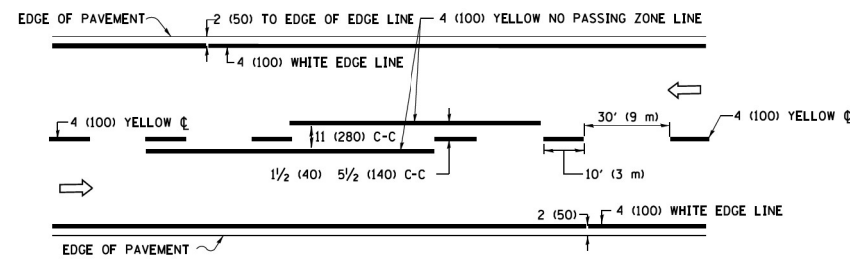
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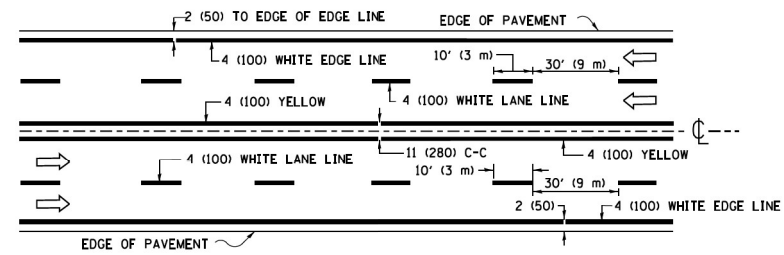
MULTI-LANE FREEWAY PAVEMENT MARKING DETAILS
TC-12

SCALE: NTS SHEET 3 OF 7 SHEETS STA. TO STA.

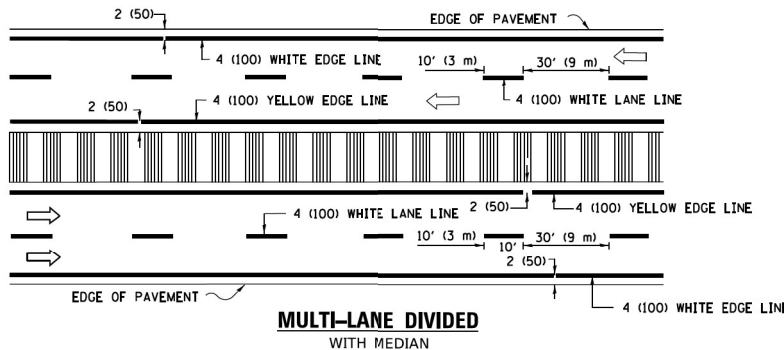
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	FAI 55 23 BR	WILL	67	63
CONTRACT NO. 62V11			ILLINOIS FED. AID PROJECT	



2-LANE ROADWAY

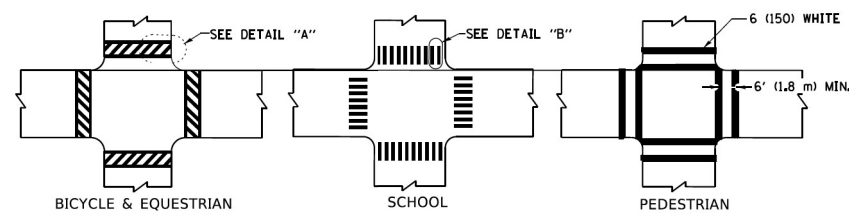


MULTI-LANE UNDIVIDED



MULTI-LANE DIVIDED WITH MEDIAN

TYPICAL LANE AND EDGE LINE MARKING

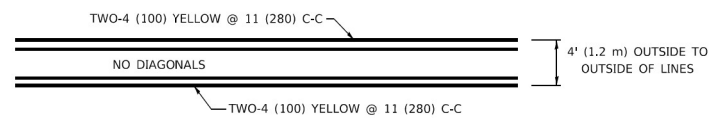


DETAIL "A"

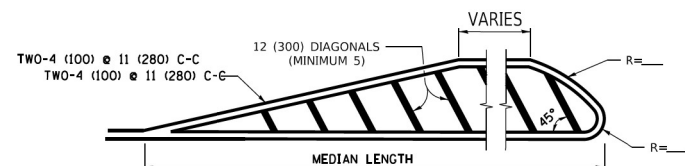
DETAIL "B"

TYPICAL CROSSWALK MARKING

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



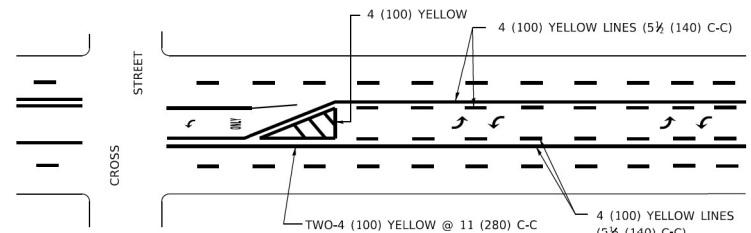
4' (1.2 m) WIDE MEDIANS ONLY



FOR MEDIAN LENGTHS WHERE DIAGONAL SPACING CANNOT BE ATTAINED, USE 5 (FIVE) EQUALLY SPACED DIAGONAL LINES.

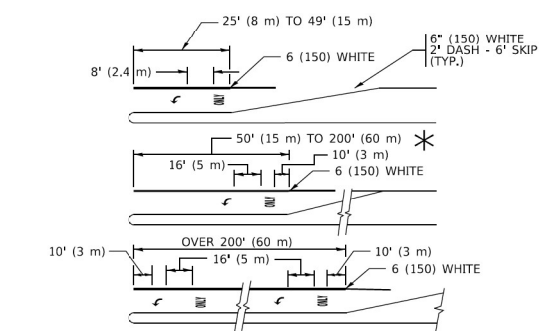
DIAGONAL LINE SPACING: 50' (15 m) C-C (LESS THAN 30MPH (50 km/h))
75' (25 m) C-C 30MPH (50 km/h) TO 45MPH (70 km/h)
150' (45 m) C-C (MORE THAN 45MPH (70 km/h))

MEDIANS OVER 4' (1.2 m) WIDE



MEDIAN WITH TWO-WAY LEFT TURN LANE

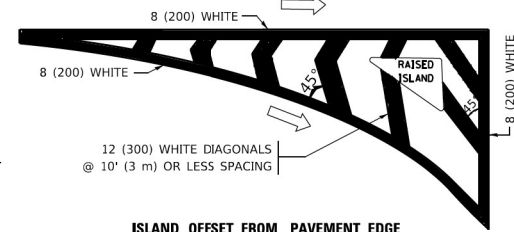
TYPICAL PAINTED MEDIAN MARKING



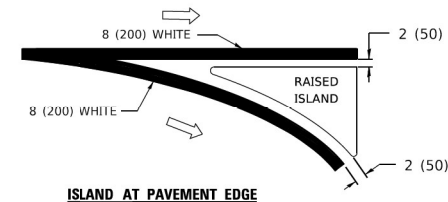
TYPICAL LEFT (OR RIGHT) TURN LANE

TYPICAL TURN LANE 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".

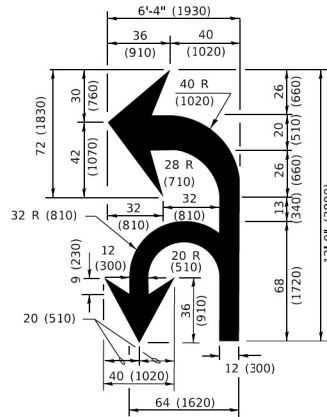


ISLAND OFFSET FROM PAVEMENT EDGE

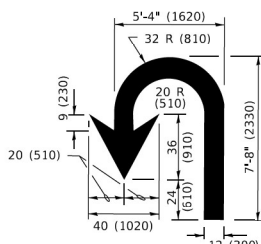


ISLAND AT PAVEMENT EDGE

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.

D(FT)	SPEED LIMIT
345	30
425	35
500	40
580	45
665	50
750	55

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.
GORE 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 6' (1.8 m) LETTERS: 16 (400) LINE FOR "X"	SOLID	WHITE	SEE STATE STANDARD 780001 AREA OF: *A*=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.

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DEPARTMENT OF TRANSPORTATION

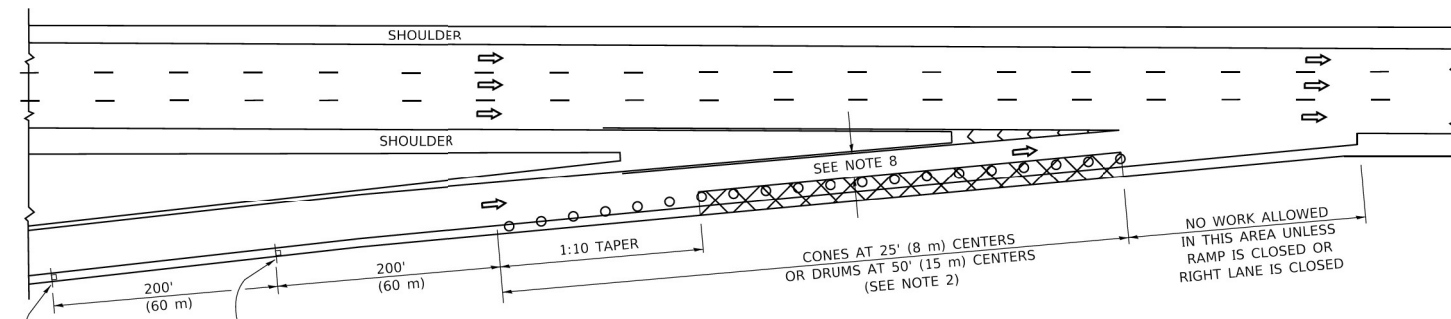
DISTRICT ONE TYPICAL PAVEMENT MARKINGS

TC-13

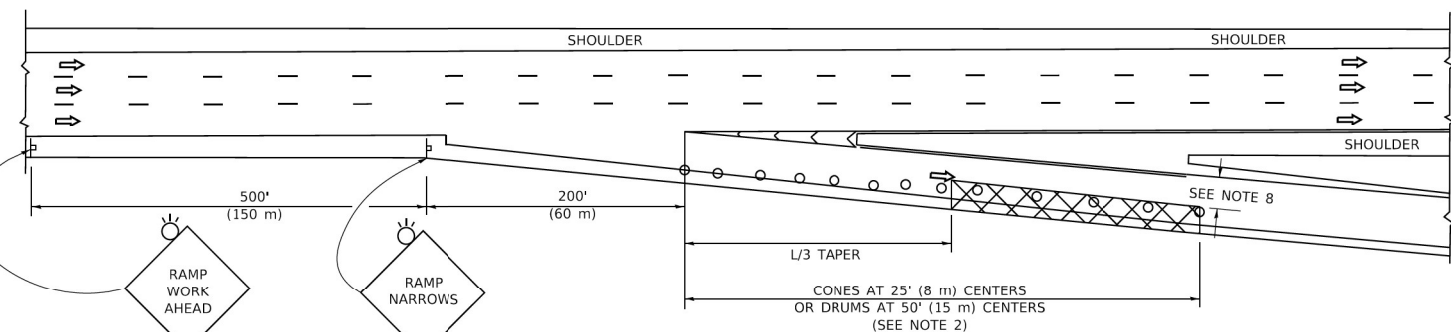
SCALE: NTS SHEET 4 OF 7 SHEETS STA. TO STA.

F.A.I. RTE. 55	SECTION FAI 55 23 BR	COUNTY WILL	TOTAL SHEETS 67	SHEET NO. 64
ILLINOIS FED. AID PROJECT			CONTRACT NO. 62V11	

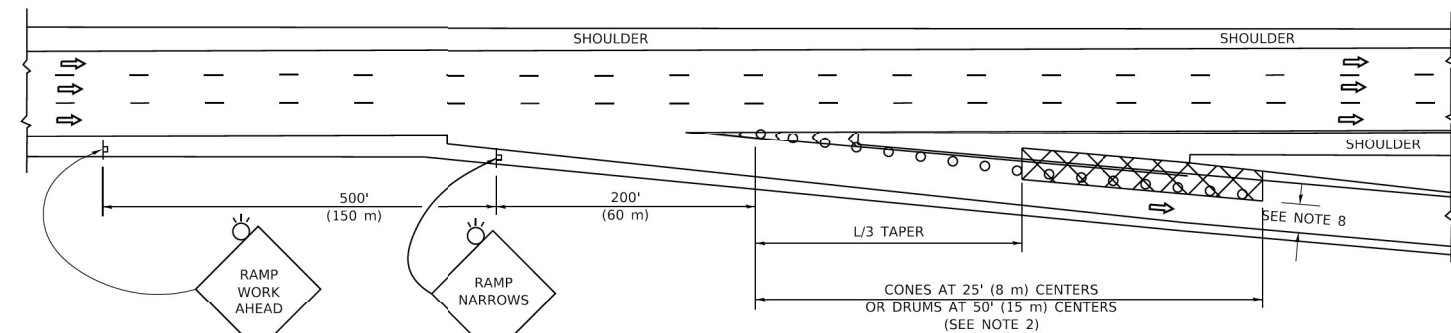
PARTIAL RAMP CLOSURE DETAILS



TYPICAL ENTRANCE RAMP



TYPICAL EXIT RAMP



TYPICAL EXIT RAMP

SYMBOLS

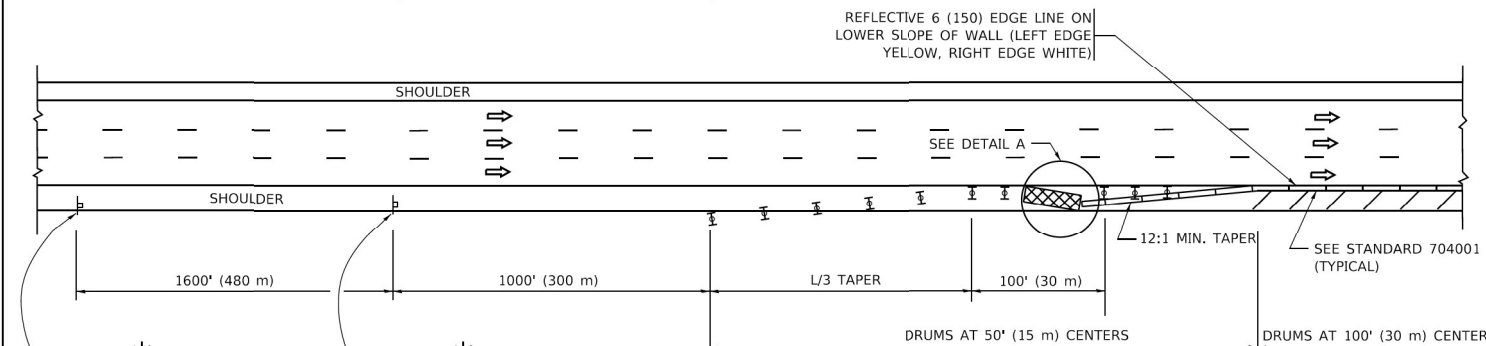
- ACTIVE WORK AREA
- SIGN ON PORTABLE OR PERMANENT SUPPORT
- FLAGGER WITH CONTROL SIGN
- TYPE II BARRICADE OR DRUM
- CONE, DRUM OR BARRICADE
- IMPACT ATTENUATOR OF TYPE AND TEST LEVEL SPECIFIED

GENERAL NOTES:

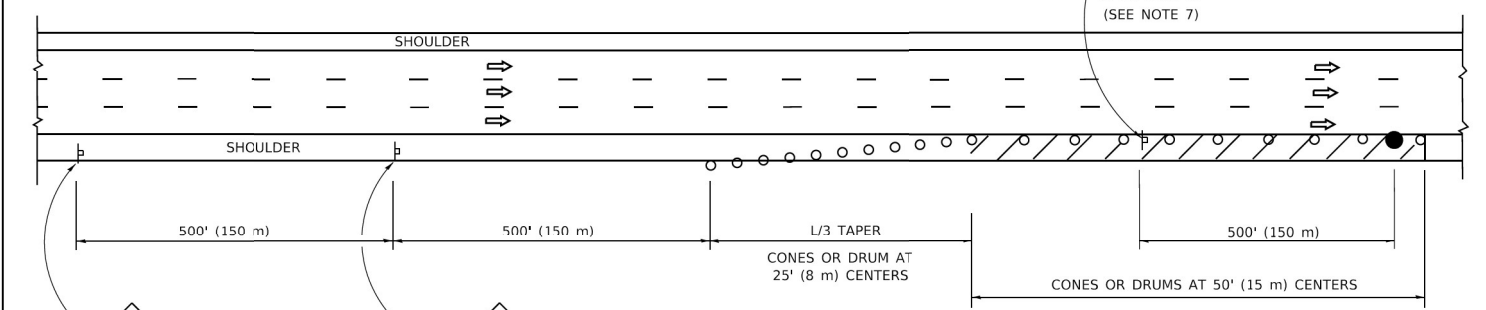
1. THE "L" DISTANCE EQUALS:

SPEED LIMIT	FORMULAS
45 mph (80 km/h)	METRIC ENGLISH
OR GREATER:	$L=0.65(W)(S)$ $L=(W)(S)$
	$W = \text{WIDTH OF OFFSET IN FEET (METERS)}$
	$S = \text{NORMAL POSTED SPEED MPH (KM/H)}$
2. TYPE II BARRICADES OR DRUMS ARE REQUIRED FOR ALL NIGHTTIME CLOSURES. TYPE II BARRICADES OR DRUMS WITH MONODIRECTIONAL STEADY BURN LIGHTS ARE REQUIRED FOR DELINEATING OBSTACLES, EXCAVATIONS, OR HAZARDS EXCEEDING 100 FT (30m) IN LENGTH AT NIGHT.
3. ALL SIGNS SHALL BE POST MOUNTED IF THE CLOSURE TIME EXCEEDS FOUR DAYS.
4. FLASHING LIGHTS SHALL BE USED DURING THE HOURS OF DARKNESS AND SHALL BE INSTALLED ABOVE THE FIRST TWO SETS OF SIGNS.

SHOULDER CLOSURE DETAILS

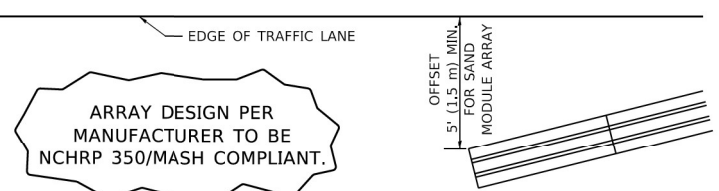


PERMANENT SHOULDER CLOSURE



DAYTIME SHOULDER CLOSURE

THIS DETAIL IS USED WHERE:
 1. VEHICLES, EQUIPMENT, WORKERS OR THEIR ACTIVITIES ENCOACH IN AN AREA CLOSER THAN 15' (4.5 m) TO THE EDGE OF PAVEMENT FOR A PERIOD IN EXCESS OF 15 MINUTES.



DETAIL "A"
IMPACT ATTENUATOR, TEMPORARY
 (SEE NOTE 5)

5. THE IMPACT ATTENUATOR, TEMPORARY IS NOT REQUIRED WHEN THE TEMPORARY CONCRETE BARRIER WALL IS PROTECTED BY OR IS TIED INTO THE EXISTING GUARDRAIL. IF OFFSET IS LESS THAN 5 FEET USE NARROW USE TYPE DEVICE TO MEET NCHRP350/MASH.
6. AUTHORIZATION FROM THE DISTRICT'S BUREAU OF TRAFFIC IS REQUIRED FOR ALL FREEWAY CLOSURES.
7. THE FLAGGER AND FLAGGER SIGN ARE REQUIRED AT THE ABOVE WORK SITES WHEN:
 - a. FOUR OR MORE WORK VEHICLES ENTER THE TRAFFIC LANES IN A ONE HOUR PERIOD.
 - b. THE WORK ACTIVITY REQUIRES FREQUENT ENCROACHMENT INTO THE LANE OPEN TO TRAFFIC. THE FLAGGER SHALL BE STATIONED APPROXIMATELY 100' (30 m) TO 200' (60 m) IN ADVANCE OF THE WORKERS.
8. 12' MIN. WIDTH TANGENT SECTION
 16' MIN. WIDTH CURVE SECTION.

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

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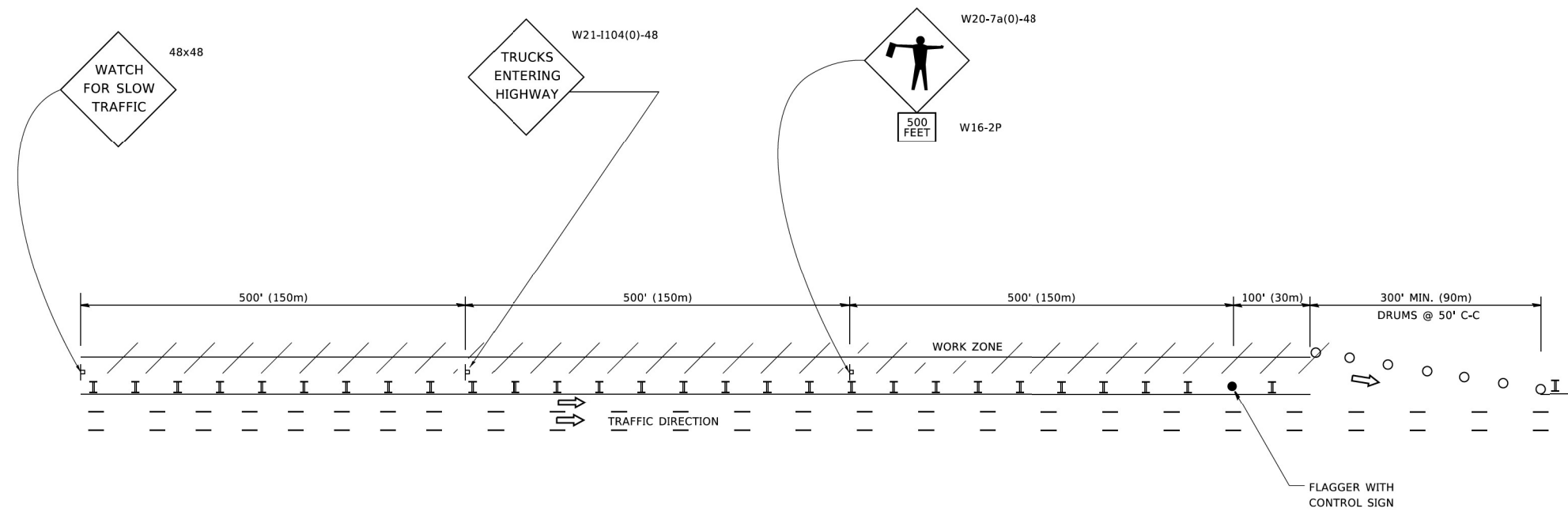
SHOULDER CLOSURES AND RAMP CLOSURES
TC-17

SCALE: NTS SHEET 5 OF 7 SHEETS STA. TO STA.

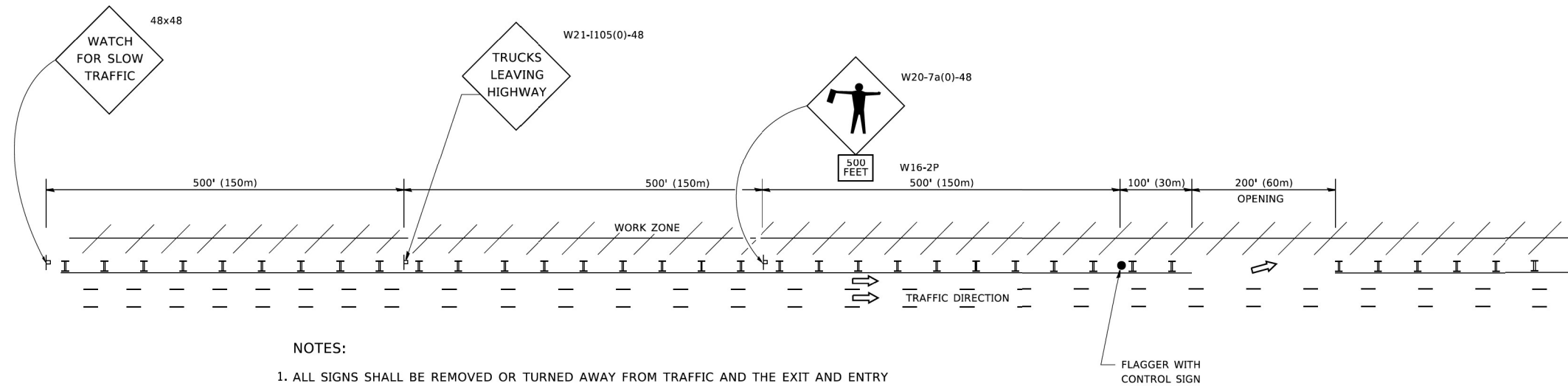
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	FAI 55 23 BR	WILL	67	65
			CONTRACT NO. 62V11	
ILLINOIS FED. AID PROJECT				

SIGNING FOR FLAGGING OPERATIONS AT WORK ZONE OPENINGS

WORK ZONE EXIT OPENING



WORK ZONE ENTRY OPENING



NOTES:

1. ALL SIGNS SHALL BE REMOVED OR TURNED AWAY FROM TRAFFIC AND THE EXIT AND ENTRY OPENINGS SHALL BE CLOSED WHEN THE FLAGGING OPERATION CEASES. NON OPERATING EQUIPMENT SHALL COMPLY WITH ARTICLE 701.11
2. WORK ZONE OPENINGS SHALL BE A MINIMUM OF ONE HALF MILE APART AND A MINIMUM OF ONE QUARTER MILE FROM ALL ENTRANCE AND EXIT RAMPS.
3. EXITING THE WORK ZONE AT ANY PLACE OTHER THAN AT A WORK ZONE EXIT OPENING WILL BE PROHIBITED.
4. ALL VEHICLES SHALL ENTER THE WORK ZONE AT ENTRY OPENINGS, USING THEIR TURN SIGNALS TO WARN MOTORISTS
5. FLAGGERS SHALL NOT STOP TRAFFIC OR DIRECT TRAFFIC INTO AN ADJACENT LANE.

ALL DIMENSIONS ARE IN INCHES (MILLIMETERS)
UNLESS OTHERWISE SHOWN

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Ph. 773-881-4788
Fax: 773-239-3728

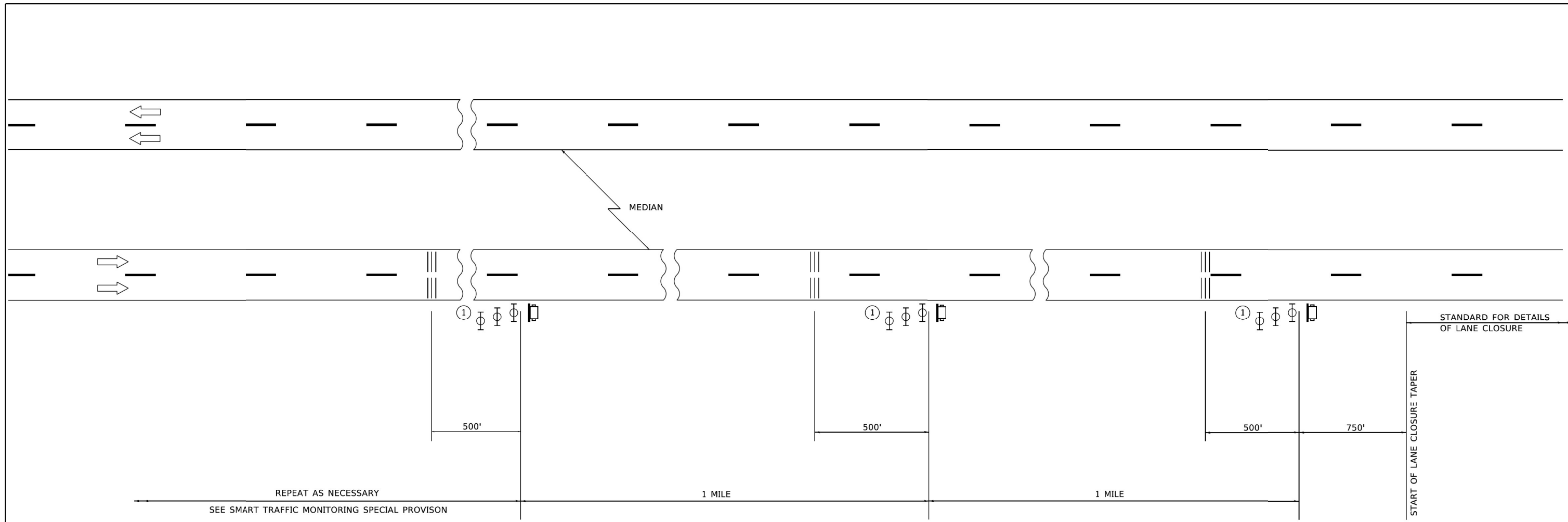
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DRAWN - JO	REVISOR -	REVISED -
PLOT SCALE = 60,000 * / in.	CHECKED - OJ	REVISED -
PLOT DATE = 10/19/2023	DATE = 5/31/2023	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**




**SIGNING FOR FLAGGING OPERATIONS AT
WORK ZONE OPENING TC-18**

SCALE: NTS SHEET 6 OF 7 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	FAI 55 23 BR	WILL	67	66
CONTRACT NO. 62V11				
ILLINOIS FED. AID PROJECT				



SYMBOLS

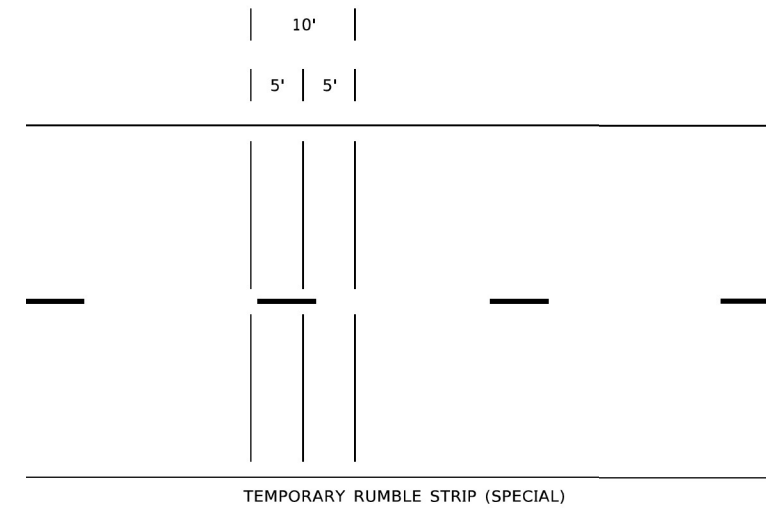
-  PORTABLE CHANGEABLE MESSAGE SIGN
-  TEMPORARY RUMBLE STRIP (SPECIAL)
-  TYPE II BARRICADES, DRUMS, OR VERTICAL BARRICADES WITH MONODIRECTIONAL FLASHING LIGHT.

① THREE TYPE II BARRICADES, DRUMS, OR VERTICAL BARRICADES AT 25' (8 m) CENTERS.

GENERAL NOTE:

THIS DETAIL IS TO BE USED IN CONJUNCTION WITH SMART TRAFFIC MONITORING SYSTEM AND TEMPORARY RUMBLE STRIP (SPECIAL) SPECIAL PROVISIONS.

TRAFFIC CONTROL SHOWN IN THIS DETAIL IS TO BE PROVIDED IN ADDITION TO ANY TEMPORARY TRAFFIC CONTROL SHOWN ON STATE STANDARDS, DISTRICT DETAILS, AND MAINTENANCE OF TRAFFIC PLANS.



TEMPORARY RUMBLE STRIP (SPECIAL)

MODEL: D:\p\h\... FILE NAME: 10631109\FBA32023\60411\MO_8\CAD_Sheets\62V11-030-SHT-STD507.dgn



745 McClintock Drive
Suite 210
Burr Ridge, IL 60527
Ph. 773-881-4788
Fax: 773-239-3728

USER NAME = aasyed	DESIGNED - TPP	REVISED -
	DRAWN - JO	REVISED -
PLOT SCALE = 60,000 * / in.	CHECKED - OJ	REVISED -
PLOT DATE = 10/19/2023	DATE - 5/31/2023	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**SMART TRAFFIC MONITORING TYPICAL LAYOUT
TC-33**

SCALE: NTS SHEET 7 OF 7 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	FAI 55 23 BR	WILL	67	67
ILLINOIS FED. AID PROJECT			CONTRACT NO. 62V11	