

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1349	FAU 1349 22 BJ	COOK	27	1
		ILLINOIS	CONTRACT NO. 62T38	

**OUC EFP FILE #125824**

FOR INDEX OF SHEETS, SEE SHEET NO. 2

**PROJECT LOCATED IN CITY OF CHICAGO**

**TRAFFIC DATA**

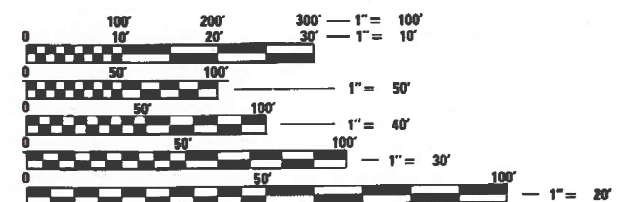
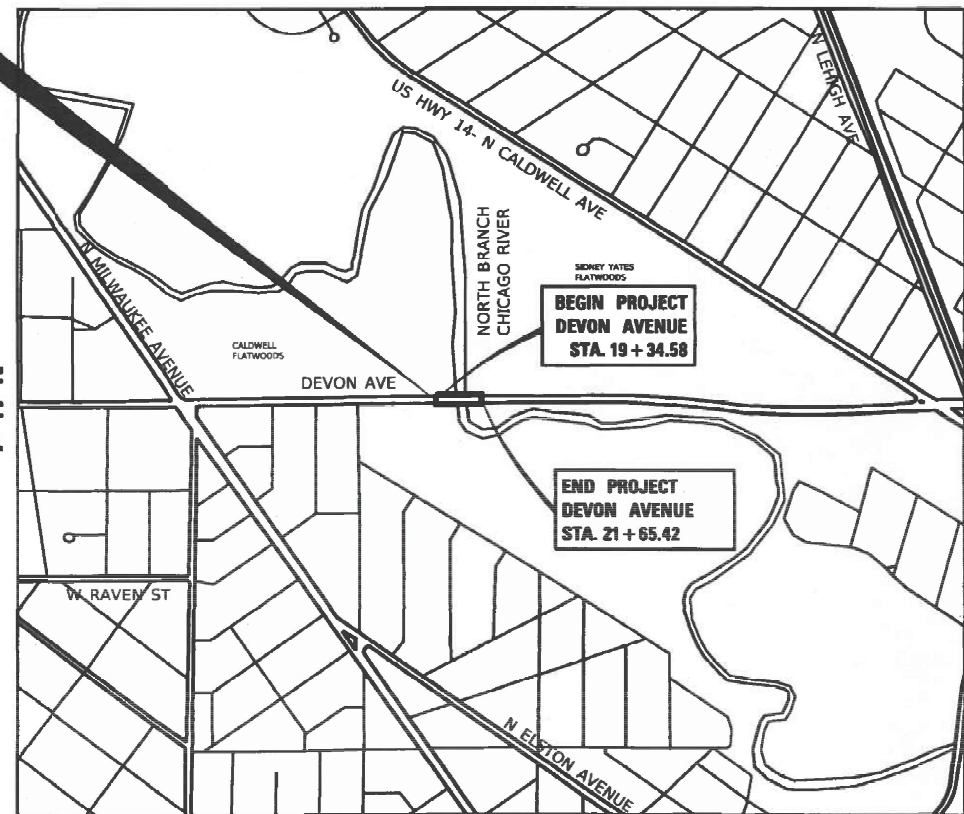
2022 ADT: 25,000  
POSTED SPEED LIMIT: 40 MPH  
DESIGN SPEED LIMIT: 40 MPH  
FUNCTIONAL CLASSIFICATION:  
MINOR ARTERIAL

**PROPOSED  
HIGHWAY PLANS**  
FAU ROUTE 1349: DEVON AVENUE  
AT NORTH BRANCH CHICAGO RIVER  
SECTION: FAU 1349 22 BJ  
PROJECT: HWY-INF-BFP-S-VIFN(450)  
BRIDGE DECK OVERLAY, BRIDGE JOINT  
REPLACEMENT / REPAIR  
COOK COUNTY

C-91-345-22

R 13 E

PROJECT LOCATION  
DEVON AVENUE  
OVER NORTH BRANCH  
OF CHICAGO RIVER  
SN 016-2597



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: LUKASZ POCIECHA (847) 705-4255  
PROJECT MANAGER: VESELIN VELICHKOV

CONTRACT NO. 62T38



	ATLAS ENGINEERING GROUP, LTD. Date: 05/17/2024 Behzad Amin, PH.D., P.E. Expires: 11/30/2025 Sheet No. 1-14, 24-27
	ATLAS ENGINEERING GROUP, LTD. Date: 05/17/2024 Jennifer K. Loesch, P.E., S.E. Expires: 11/30/2024 Sheet No. 15-23

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

SUBMITTED June 25, 2024  
*[Signature]*  
REGIONAL ENGINEER

August 16, 2024  
*[Signature]*  
ENGINEER OF DESIGN AND ENVIRONMENT

August 16, 2024  
*[Signature]*  
DIRECTOR OF HIGHWAYS PROJECT IMPLEMENTATION

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

**AEG** ATLAS ENGINEERING GROUP, LTD.  
710 Estate Drive | Deerfield, IL 60015  
847.753.8020 (office) | 847.753.8023 (fax)



MODEL: Default  
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CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTR. CODE
				80% FED
				20% STATE
				BRIDGE
				0059
				URBAN
40600290	BITUMINOUS MATERIALS (TACK COAT)	POUND	268	268
40600982	HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT	SQ YD	340	340
40604172	POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, 1L-9.5, MIX "E", N70	TON	59	59
50300300	PROTECTIVE COAT	SQ YD	861	861
67100100	MOBILIZATION	L SUM	1	1
70107025	CHANGEABLE MESSAGE SIGN	CAL DA	138	138
70300150	SHORT TERM PAVEMENT MARKING REMOVAL	SQ FT	2997	2997
70307120	TEMPORARY PAVEMENT MARKING - LINE 4" - TYPE IV TAPE	FOOT	9021	9021
70400100	TEMPORARY CONCRETE BARRIER	FOOT	612.5	612.5
70400200	RELOCATE TEMPORARY CONCRETE BARRIER	FOOT	625	625
70600255	IMPACT ATTENUATORS, TEMPORARY (FULLY REDIRECTIVE, NARROW), TEST LEVEL 2	EACH	2	2
70600322	IMPACT ATTENUATORS, RELOCATE (FULLY REDIRECTIVE, NARROW), TEST LEVEL 2	EACH	4	4
** 78000200	THERMOPLASTIC PAVEMENT MARKING - LINE 4"	FOOT	3282	3282
** 78004620	PREFORMED PLASTIC PAVEMENT MARKING, TYPE D - STANDARD - LINE 4"	FOOT	242	242

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTR. CODE
				80% FED
				20% STATE
				BRIDGE
				0059
				URBAN
** 78004635	PREFORMED PLASTIC PAVEMENT MARKING, TYPE D - STANDARD - LINE 7"	FOOT	80	80
** 78009004	MODIFIED URETHANE PAVEMENT MARKING - LINE 4"	FOOT	242	242
78011025	GROOVING FOR RECESSED PAVEMENT MARKING 5"	FOOT	242	242
78011040	GROOVING FOR RECESSED PAVEMENT MARKING 8"	FOOT	80	80
** 78100100	RAISED REFLECTIVE PAVEMENT MARKER	EACH	16	16
78300200	RAISED REFLECTIVE PAVEMENT MARKER REMOVAL	EACH	24	24
78300202	PAVEMENT MARKING REMOVAL - WATER BLASTING	SQ FT	1901	1901
* K1004595	PRUNING FOR SAFETY AND EQUIPMENT CLEARANCE	L SUM	1	1
* X0300062	GRAFFITI REMOVAL	SQ YD	1921	1921
* X5030539	FLOOR DRAINS TO BE CLEANED	EACH	14	14
* X0326766	CLEAN & RESEAL RELIEF JOINT	FOOT	88	88
* X5030250	BRIDGE DECK GROOVING (LONGITUDINAL)	SQ YD	588	588
* X6700407	ENGINEER'S FIELD OFFICE, TYPE A (D1)	CAL MO	6	6
* X7010216	TRAFFIC CONTROL AND PROTECTION, (SPECIAL)	L SUM	1	1

\* = SPECIAL PROVISION  
 \*\* = SPECIALTY ITEM



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DRAWN - NKA	CHECKED - BA	REVISED -
PLOT SCALE = 40.0000' / in.	DATE - 06/28/2024	REVISED -
PLOT DATE = 12/19/2023		

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**SUMMARY OF QUANTITIES**

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

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1349	FAU 1349 22 BJ	COOK	27	3
CONTRACT NO. 62T38			ILLINOIS FED. AID PROJECT	

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CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTR. CODE	
				80% FED 20% STATE BRIDGE 0059 URBAN	
* X7830050	RAISED REFLECTIVE PAVEMENT MARKER, REFLECTOR REMOVAL	EACH	112	112	
* X7830052	RAISED REFLECTIVE PAVEMENT MARKER, REFLECTOR REPLACEMENT	EACH	112	112	
* Z0001700	APPROACH SLAB REPAIR (FULL DEPTH)	SQ YD	1	1	
* Z0001800	APPROACH SLAB REPAIR (PARTIAL DEPTH)	SQ YD	15	15	
* Z0006016	BRIDGE DECK LATEX CONCRETE OVERLAY, 2 3/4 INCHES	SQ YD	762	762	
* Z0012130	BRIDGE DECK SCARIFICATION 3/4"	SQ YD	766	766	
* Z0012754	STRUCTURAL REPAIR OF CONCRETE (DEPTH EQUAL TO OR LESS THAN 5 INCHES)	SQ FT	4	4	
* Z0013798	CONSTRUCTION LAYOUT	L SUM	1	1	
* Z0016002	DECK SLAB REPAIR (FULL DEPTH, TYPE II)	SQ YD	1	1	
* Z0029090	DIAMOND GRINDING (BRIDGE SECTION)	SQ YD	762	762	
* Z0030850	TEMPORARY INFORMATION SIGNING	SQ FT	51.4	51.4	
* Z0041895	POLYMER CONCRETE	CU FT	7	7	
* X6310330	REPAIR TRAFFIC BARRIER TERMINAL, TYPE 6	EACH	4	4	
* X2010514	SELECTIVE CLEARING	UNIT	3	3	

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PLOT DATE = 12/19/2023	DATE - 06/28/2024	REVISED -

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**SUMMARY OF QUANTITIES**

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

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1349	FAU 1349 22 BJ	COOK	27	4
CONTRACT NO. 62T38			ILLINOIS FED. AID PROJECT	

## MAINTENANCE OF TRAFFIC GENERAL NOTES

1. THE CONTRACTOR SHALL MAINTAIN A MINIMUM OF ONE 11' WIDE THROUGH LANE IN EACH DIRECTION DURING THE CONSTRUCTION.
2. THE CONTRACTOR SHALL TAKE ALL THE NECESSARY PRECAUTIONS TO PROTECT ADJACENT TRAFFIC LANES OPEN TO TRAFFIC FROM DEBRIS BEING BLOWN OR OTHERWISE REMOVED FROM THE CONSTRUCTION AREAS. THE CONTRACTOR SHALL ALSO BE RESPONSIBLE FOR KEEPING DEBRIS OFF THE ADJACENT TRAVELED LANE SURFACE.
3. TEMPORARY PAVEMENT MARKINGS ON FINAL PAVEMENT SURFACE OR ON PAVEMENT SURFACES THAT WILL BE RESURFACED AS PART OF THIS CONTRACT MUST BE TAPE.
4. THE CONTRACTOR'S ATTENTION IS DIRECTED TO THE FACT THAT WHEN WORK COMMENCES, THE CONTRACTOR SHALL ASSUME THE MAINTENANCE OF ANY PAVEMENT, SHOULDERS, DRAINAGE FACILITIES, TRAFFIC CONTROL SIGNS, PAVEMENT MARKINGS AND OTHER APPURTENANCES ON ROADWAYS WITHIN THE LIMIT OF THE CONTRACT WHICH ARE TO BE USED BY THE PUBLIC DURING CONSTRUCTION AND RETAIN THIS MAINTENANCE RESPONSIBILITY UNTIL THE STATE ASSUMES THE MAINTENANCE. NEED FOR SNOW AND ICE CONTROL DURING THE CONSTRUCTION PERIOD SHALL BE ACCOMMODATED FOR BY OTHERS.
5. ALL CONTRACTOR'S SUPPLIED TRAFFIC CONTROL DEVICES AND SIGNS SHALL BE IN GOOD CONDITION AND SHALL BE SUBJECT TO APPROVAL BY THE ENGINEER.
6. THE CONTRACTOR SHALL BE RESPONSIBLE FOR AND SHALL REPLACE ANY SIGNS THAT ARE SUPPLIED BY OTHERS AND DAMAGED BY THE CONTRACTOR'S WORK FORCE OR SUBCONTRACTOR'S DURING RELOCATION OR CONSTRUCTION OPERATION.
7. THE ENGINEER SHALL BE INFORMED A MINIMUM OF 48 HOURS IN ADVANCE OF ANY CHANGE IN CONSTRUCTION STAGING.
8. ALL SIGNING MUST BE IN ACCORDANCE WITH THE APPLICABLE PROVISIONS OF THE STATE OF ILLINOIS "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION ADOPTED JANUARY 1, 2022", THE DETAILS IN THESE PLANS, THE LATEST EDITION OF THE IDOT BUREAU OF DESIGN AND ENVIRONMENT HIGHWAY STANDARDS AND THE LATEST EDITION OF THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES".
9. THE CONTRACTOR SHALL PROVIDE ALL SIGNS, VERTICAL PANELS, DRUMS, TYPE II BARRICADES, TYPE III BARRICADES, ALL TEMPORARY CONCRETE BARRIERS AND PROTECTION NECESSARY FOR WORK ZONE TRAFFIC CONTROL AND PROTECTION, OR AS DIRECTED BY THE ENGINEER.
10. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ENSURING THAT ALL BARRICADES, SIGNS, LIGHTS AND OTHER DEVICES INSTALLED ARE IN PLACE AND OPERATING 24 HOURS A DAY INCLUDING SUNDAYS AND HOLIDAYS DURING THE TIME THIS CONSTRUCTION IS IN EFFECT.
11. ALL CONSTRUCTION SIGN DIMENSIONS SHALL BE 48"X48", EXCEPT AS OTHERWISE NOTED IN THE PLANS.
12. ALL EXISTING GUIDE SIGNS (I.E. STREET NAME SIGNS, ADVANCE STREET NAME SIGNS, ROUTE MARKERS, ETC.) SHALL BE MAINTAINED AND VISIBLE TO TRAFFIC DURING CONSTRUCTION.
13. EMERGENCY VEHICLES MUST HAVE ACCESS TO THE AREA AT ALL TIMES.
14. THE EXISTING PAVEMENT MARKINGS IN CONFLICT WITH TEMPORARY PAVEMENT MARKINGS SHALL BE WATER BLASTED PRIOR TO STAGING.
15. FOR STAGING TYPICAL SECTIONS, REFER STRUCTURAL PLANS.
16. POSTED SPEED LIMIT IS 40 MPH ON BRIDGE. 35 MPH ADVISORY SPEED IS USED FOR WORK ZONE SPEED LIMIT.
17. CHANGEABLE MESSAGE SIGNS SHALL BE INSTALLED TWO WEEKS PRIOR TO ALL TRAFFIC STAGE CHANGE EVENTS ON EACH APPROACH OF THE EFFECTED ROADWAY TO WARN MOTORISTS OF THE UPCOMING EVENT. THE SIGNS SHALL BE REMOVED TWO WEEKS THEREAFTER UNLESS THE SIGNS ARE NEEDED AGAIN FOR A SUBSEQUENT FUTURE EVENT THAT WILL OCCUR WITHIN 2 WEEKS ON THE SAME APPROACH OF THE EFFECTED ROADWAY. THE SIGN LOCATIONS SHALL BE PLACED AS DIRECTED BY THE ENGINEER.

## SEQUENCE OF CONSTRUCTION

### STAGE 1

#### TRAFFIC

PLACE TEMPORARY PAVEMENT MARKINGS AND OTHER TEMPORARY CONTROL DEVICES AS SHOWN IN THE STAGE 1 PLAN. REMOVE EXISTING PAVEMENT MARKINGS AND RAISED REFLECTIVE PAVEMENT MARKERS WITHIN THE PROJECT LIMITS IN CONFLICT WITH STAGE 1 TEMPORARY PAVEMENT MARKINGS. REMOVE THE EXISTING PAVEMENT MARKINGS IN CONFLICT WITH STAGE 1 TEMPORARY PAVEMENT MARKINGS. REMOVE REFLECTORS FROM THE EXISTING RAISED REFLECTIVE PAVEMENT MARKERS IN CONFLICT WITH STAGE 1 TEMPORARY PAVEMENT MARKINGS. SHIFT TRAFFIC TO THE SOUTH SIDE (EB) OF THE EXISTING BRIDGE. ONE LANE OF TRAFFIC TO BE PROVIDED IN EACH DIRECTION.

#### CONSTRUCTION

SCARIFY, REPAIR AND OVERLAY THE EXISTING BRIDGE AND BRIDGE APPROACH SLABS, AND OTHER STRUCTURAL IMPROVEMENTS ON THE NORTH SIDE OF BRIDGE AS SHOWN IN THE PLANS. CONSTRUCT BUTT JOINTS AND OTHER IMPROVEMENTS AS SHOWN IN THE PLANS.

### STAGE 2

#### TRAFFIC

PLACE TEMPORARY PAVEMENT MARKINGS AND OTHER TRAFFIC CONTROL DEVICES AS SHOWN IN THE STAGE 2 PLAN. REMOVE THE EXISTING PAVEMENT MARKINGS IN CONFLICT WITH STAGE 2 TEMPORARY PAVEMENT MARKINGS. REMOVE REFLECTORS FROM THE EXISTING RAISED REFLECTIVE PAVEMENT MARKERS IN CONFLICT WITH STAGE 2 TEMPORARY PAVEMENT MARKINGS. SHIFT TRAFFIC TO SPLIT ON NORTH AND SOUTH SIDES OF BRIDGE. EB ON SOUTH AND WB ON NORTH. ONE LANE OF TRAFFIC IN EACH DIRECTION.

#### CONSTRUCTION

SCARIFY, REPAIR AND OVERLAY THE EXISTING BRIDGE AND BRIDGE APPROACH SLABS, AND OTHER STRUCTURAL IMPROVEMENTS IN THE MIDDLE OF BRIDGE AS SHOWN IN THE PLANS. CONSTRUCT BUTT JOINTS AND OTHER IMPROVEMENTS AS SHOWN IN THE PLANS.

### STAGE 3

#### TRAFFIC

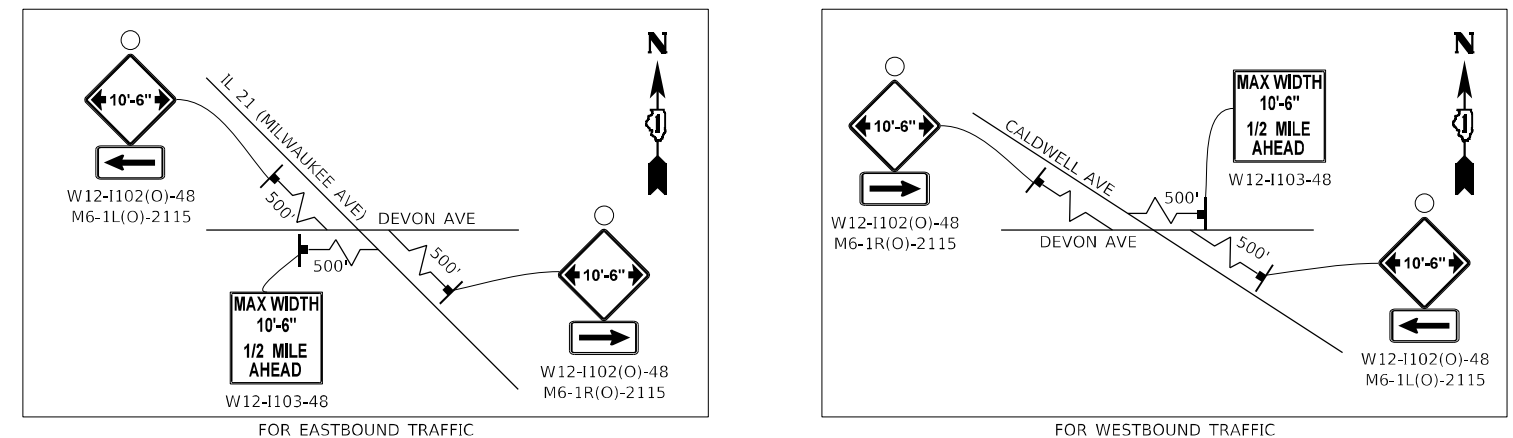
PLACE TEMPORARY PAVEMENT MARKINGS AND OTHER TRAFFIC CONTROL DEVICES AS SHOWN IN THE STAGE 3 PLAN. REMOVE THE EXISTING PAVEMENT MARKINGS IN CONFLICT WITH STAGE 3 TEMPORARY PAVEMENT MARKINGS. SHIFT TRAFFIC TO THE NORTH SIDE (WB) ON THE NEWLY OVELAYED BRIDGE. ONE LANE OF TRAFFIC TO BE PROVIDED IN EACH DIRECTION.

#### CONSTRUCTION

SCARIFY, REPAIR AND OVERLAY THE EXISTING BRIDGE AND BRIDGE APPROACH SLABS, AND OTHER STRUCTURAL IMPROVEMENTS ON THE SOUTH SIDE OF BRIDGE AS SHOWN IN THE PLANS. CONSTRUCT BUTT JOINTS AND OTHER IMPROVEMENTS AS SHOWN IN THE PLANS.

REMOVE TEMPORARY PAVEMENT MARKINGS, OTHER TEMPORARY TRAFFIC CONTROL DEVICES AND INSTALL PERMANENT PAVEMENT MARKINGS AS SHOWN IN THE PLANS. INSTALL PREVIOUSLY REMOVED REFLECTORS.

## ADVANCED SIGNAGE AT INTERSECTIONS



**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**TRAFFIC CONTROL PLAN  
GENERAL NOTES**

SCALE: NA SHEET 1 OF 8 SHEETS STA. TO STA.


F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1349	FAU 1349 22 BJ	COOK	27	5
CONTRACT NO. 62T38				
ILLINOIS FED. AID PROJECT				

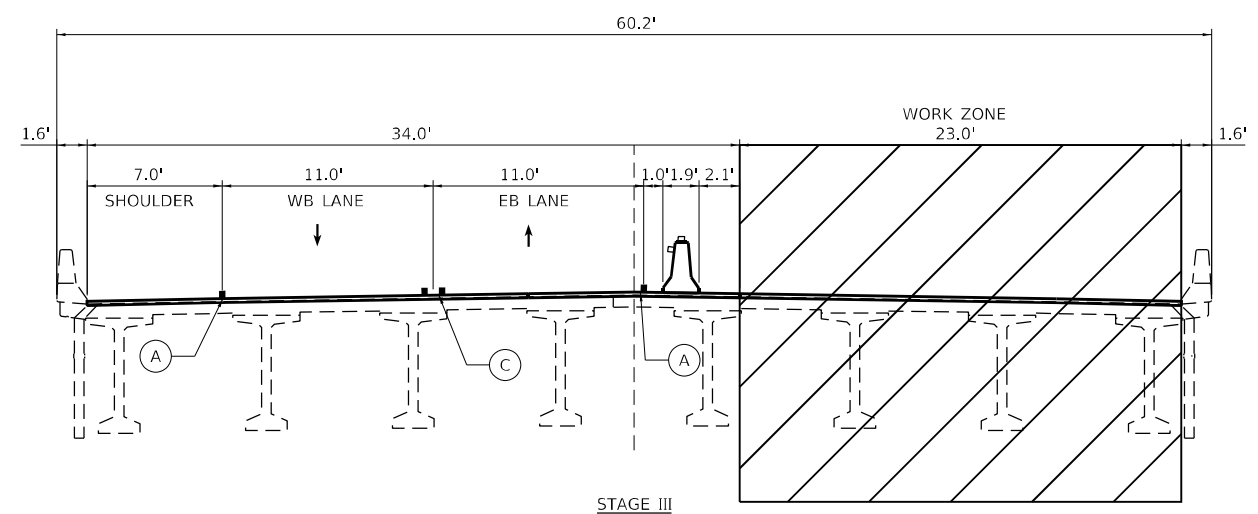
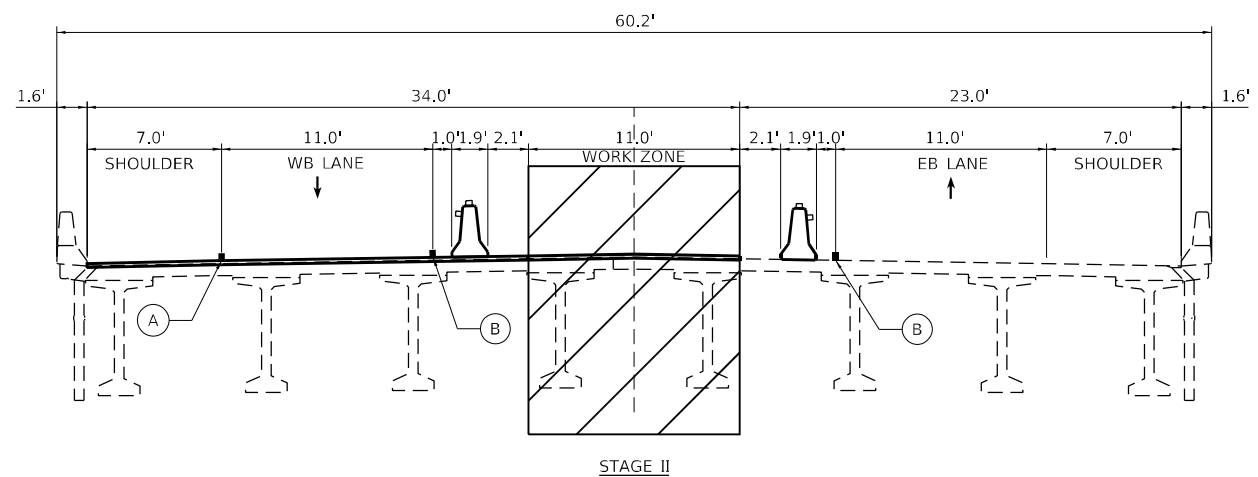
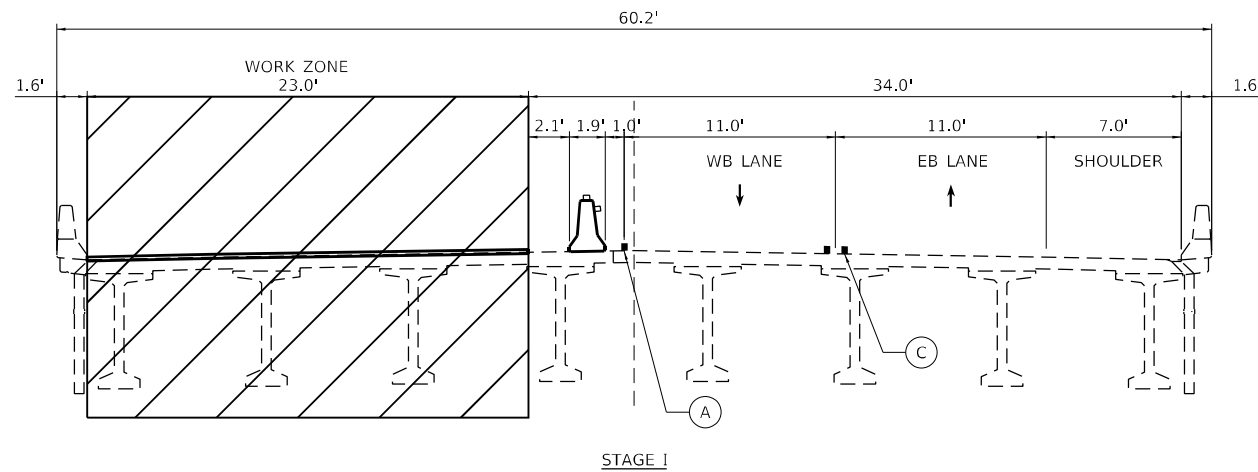
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**AEG** ATLAS ENGINEERING GROUP, LTD.


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PLOT DATE = 12/19/2023	DATE - 06/28/2024	REVISED -

LEGEND

- (A) TEMPORARY PAVEMENT MARKING - LINE 4" - TYPE IV TAPE (SOLID WHITE)
- (B) TEMPORARY PAVEMENT MARKING - LINE 4" - TYPE IV TAPE (SOLID YELLOW)
- (C) TEMPORARY PAVEMENT MARKING - LINE 4" - TYPE IV TAPE (DOUBLE YELLOW)
-  TEMPORARY CONCRETE BARRIER WITH DOUBLE SIDED CRYSTAL TYPE C REFLECTORS PER STD. 704001 AND 782006



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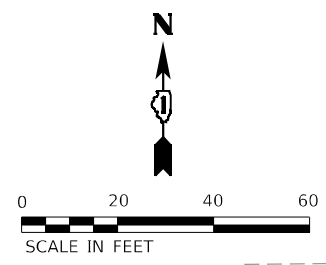
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STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

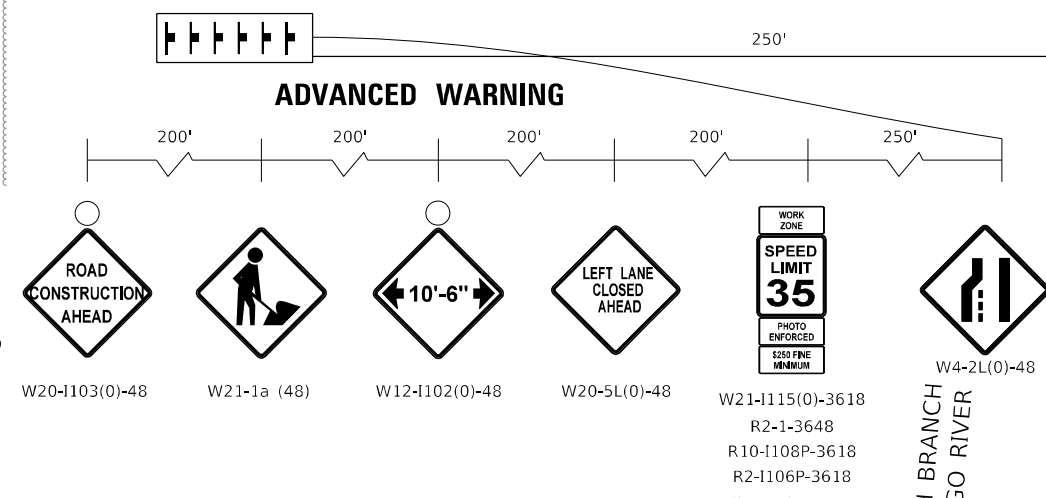
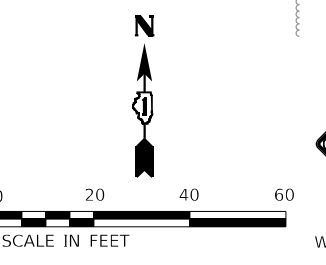
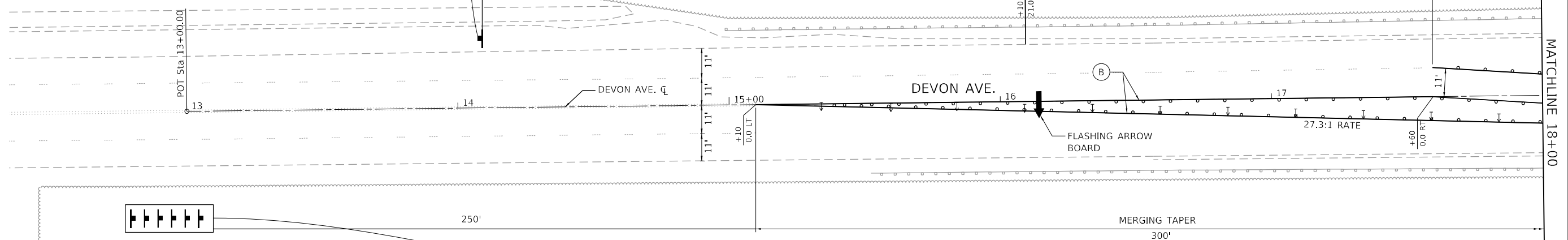
TRAFFIC CONTROL PLAN  
TYPICAL SECTIONS

SCALE: SHEET 2 OF 8 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1349	FAU 1349 22 BJ	COOK	27	6
CONTRACT NO. 62T38			ILLINOIS FED. AID PROJECT	

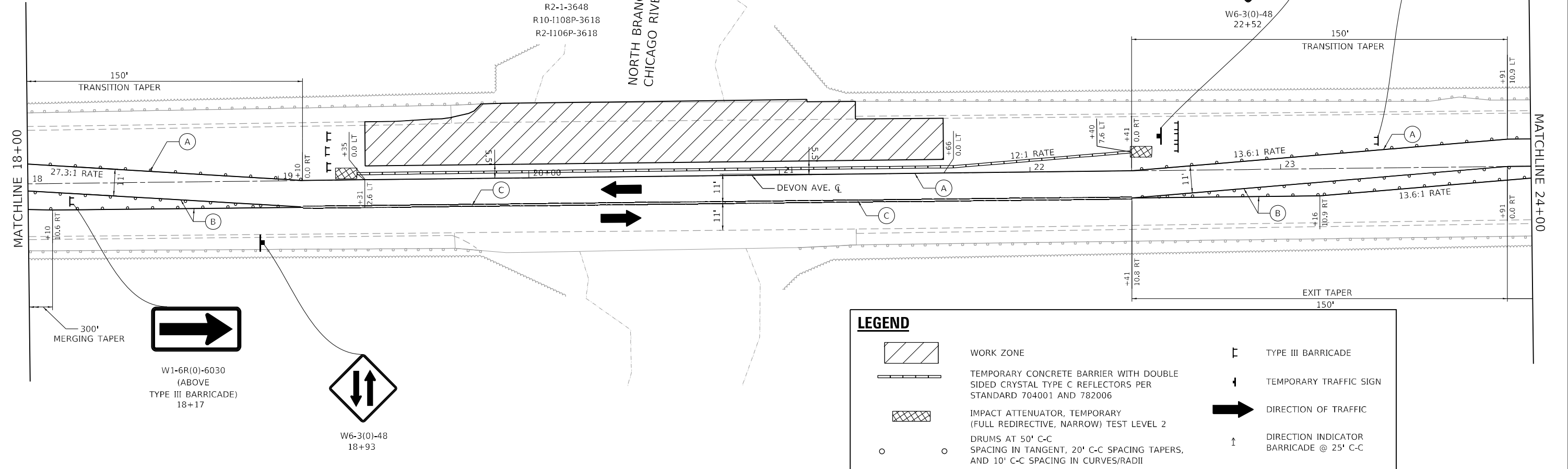


**END  
WORK ZONE  
SPEED LIMIT**  
G20-1103-6036  
14+08



**TEMPORARY PAVEMENT MARKING LEGEND**

- (A) PAVT MARK LINE 4" SOLID WHITE - TYPE IV TAPE
- (B) PAVT MARK LINE 4" SOLID YELLOW - TYPE IV TAPE
- (C) PAVT MARK LINE 4" DOUBLE YELLOW @ 11" C-C - TYPE IV TAPE
- (D) PAVT MARK LINE 4" SKIP DASH WHITE (10'-30') - TYPE IV TAPE



**LEGEND**

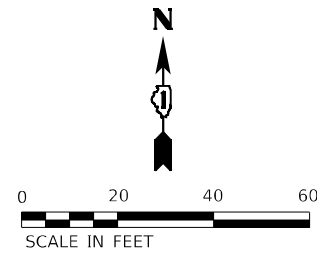
- WORK ZONE
- TEMPORARY CONCRETE BARRIER WITH DOUBLE SIDED CRYSTAL TYPE C REFLECTORS PER STANDARD 704001 AND 782006
- IMPACT ATTENUATOR, TEMPORARY (FULL REDIRECTIVE, NARROW) TEST LEVEL 2 DRUMS AT 50' C-C
- SPACING IN TANGENT, 20' C-C SPACING TAPERS, AND 10' C-C SPACING IN CURVES/RADII
- TYPE III BARRICADE
- TEMPORARY TRAFFIC SIGN
- DIRECTION OF TRAFFIC
- DIRECTION INDICATOR BARRICADE @ 25' C-C

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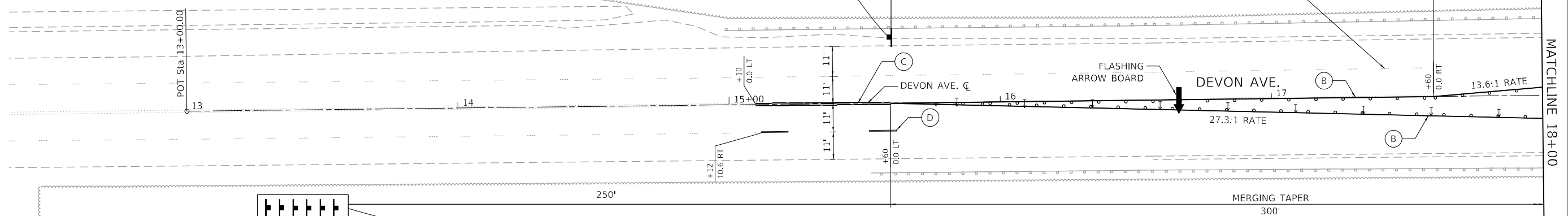
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	SCALE: 1" = 20'    SHEET 3 OF 8 SHEETS    STA.    TO STA.			ILLINOIS FED. AID PROJECT		



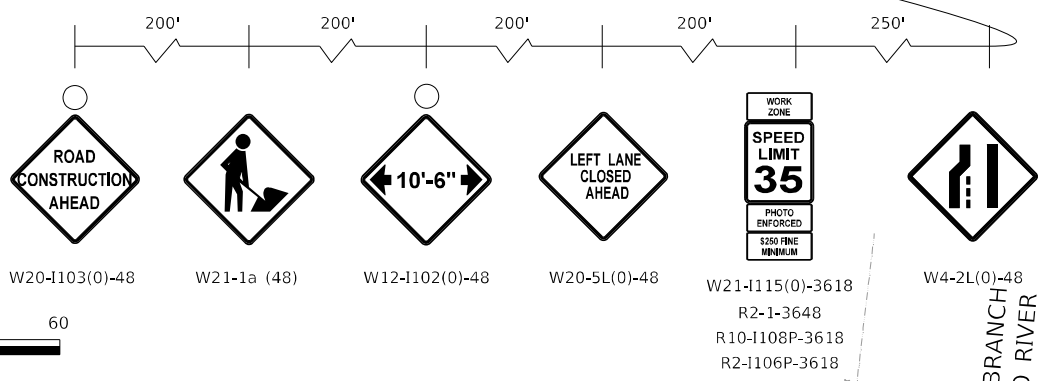




**END  
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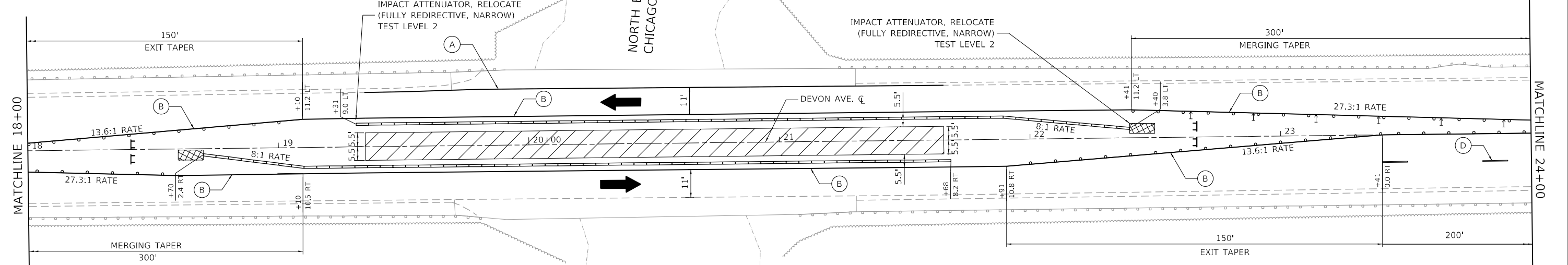
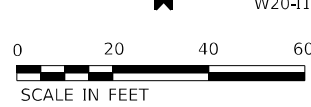


**ADVANCED WARNING**



**TEMPORARY PAVEMENT MARKING LEGEND**

- (A) PAVT MARK LINE 4" SOLID WHITE - TYPE IV TAPE
- (B) PAVT MARK LINE 4" SOLID YELLOW - TYPE IV TAPE
- (C) PAVT MARK LINE 4" DOUBLE YELLOW @ 11" C-C - TYPE IV TAPE
- (D) PAVT MARK LINE 4" SKIP DASH WHITE (10'-30') - TYPE IV TAPE



**LEGEND**

- WORK ZONE
- TEMPORARY CONCRETE BARRIER WITH DOUBLE SIDED CRYSTAL TYPE C REFLECTORS PER STANDARD 704001 AND 782006
- IMPACT ATTENUATOR, TEMPORARY (FULL REDIRECTIVE, NARROW) TEST LEVEL 2
- DRUMS AT 50' C-C SPACING IN TANGENT, 20' C-C SPACING TAPERS, AND 10' C-C SPACING IN CURVES/RADII
- TYPE III BARRICADE
- TEMPORARY TRAFFIC SIGN
- DIRECTION OF TRAFFIC
- DIRECTION INDICATOR BARRICADE @ 25' C-C

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**AEG ATLAS ENGINEERING GROUP, LTD.**

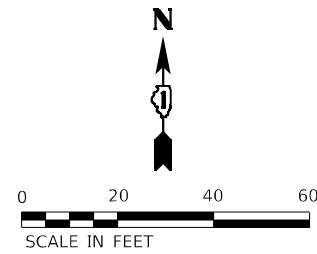
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**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

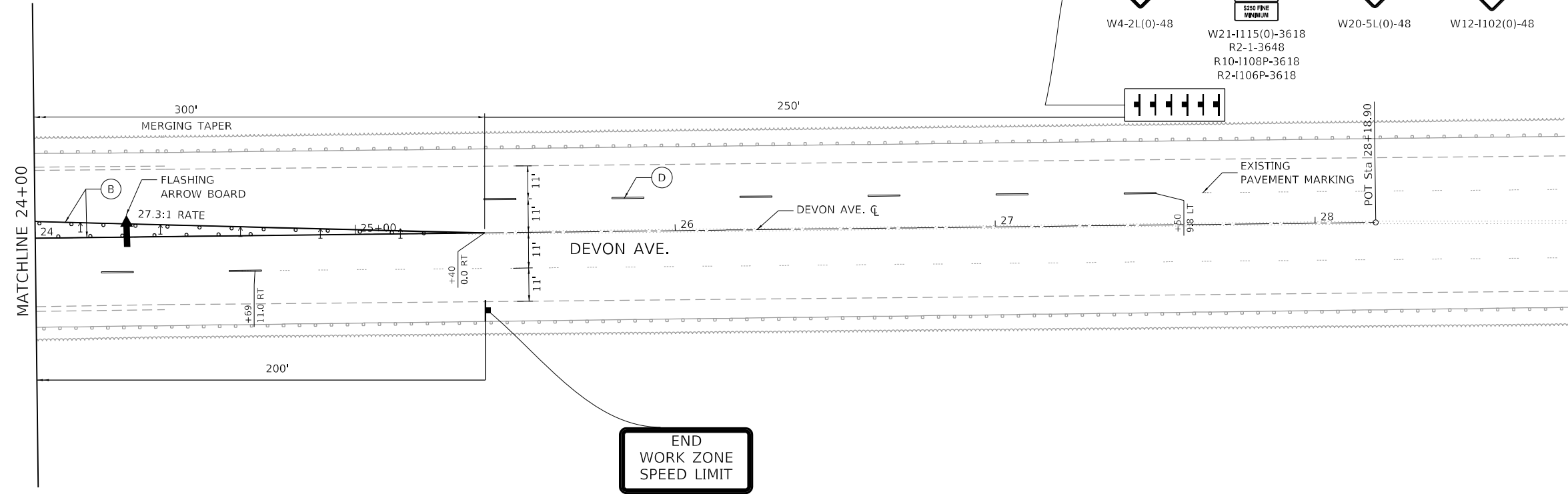
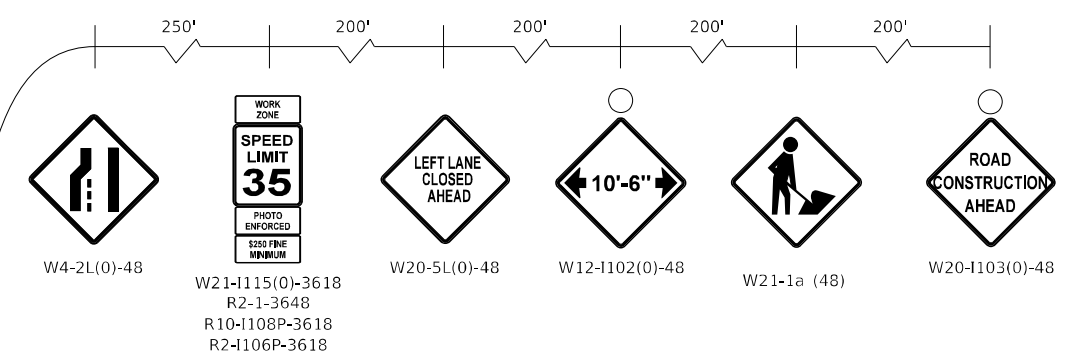
**TRAFFIC CONTROL PLAN  
STAGE 2**

SCALE: 1" = 20'    SHEET 5 OF 8 SHEETS    STA.    TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1349	FAU 1349 22 BJ	COOK	27	9
CONTRACT NO. 62T38				
ILLINOIS FED. AID PROJECT				



**ADVANCED WARNING**



**END  
WORK ZONE  
SPEED LIMIT**

G20-1103-6036  
25+41

**TEMPORARY PAVEMENT MARKING LEGEND**

- (A) PAVT MARK LINE 4" SOLID WHITE - TYPE IV TAPE
- (B) PAVT MARK LINE 4" SOLID YELLOW - TYPE IV TAPE
- (C) PAVT MARK LINE 4" DOUBLE YELLOW @ 11" C-C - TYPE IV TAPE
- (D) PAVT MARK LINE 4" SKIP DASH WHITE (10'-30') - TYPE IV TAPE

**LEGEND**

- WORK ZONE
- TEMPORARY CONCRETE BARRIER WITH DOUBLE SIDED CRYSTAL TYPE C REFLECTORS PER STANDARD 704001 AND 782006
- IMPACT ATTENUATOR, TEMPORARY DRUMS AT 50' C-C SPACING IN TANGENT, 20' C-C SPACING TAPERS, AND 10' C-C SPACING IN CURVES/RADII
- TYPE III BARRICADE
- TEMPORARY TRAFFIC SIGN
- DIRECTION OF TRAFFIC
- DIRECTION INDICATOR BARRICADE @ 25' C-C

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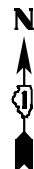
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		DATE - 06/28/2024	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**TRAFFIC CONTROL PLAN  
STAGE 2**

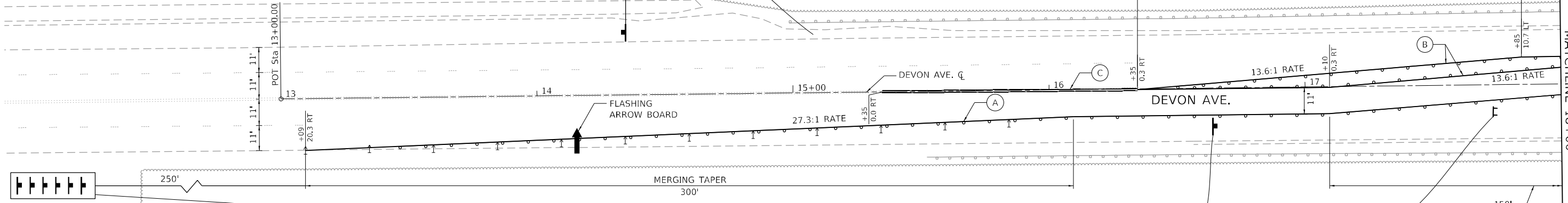
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F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1349	FAU 1349 22 BJ	COOK	27	10
CONTRACT NO. 62T38				
ILLINOIS FED. AID PROJECT				

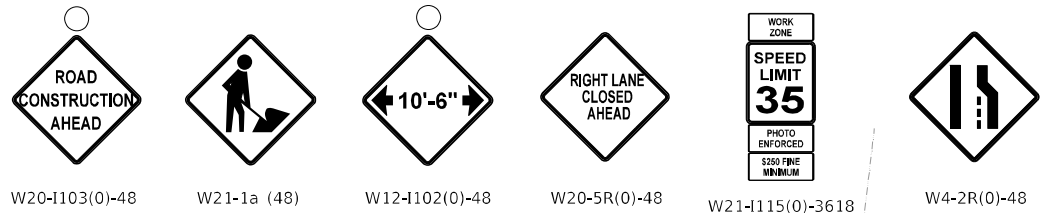


END  
WORK ZONE  
SPEED LIMIT

G20-1103-6036  
14+34



**ADVANCED WARNING**



**TEMPORARY PAVEMENT MARKING LEGEND**

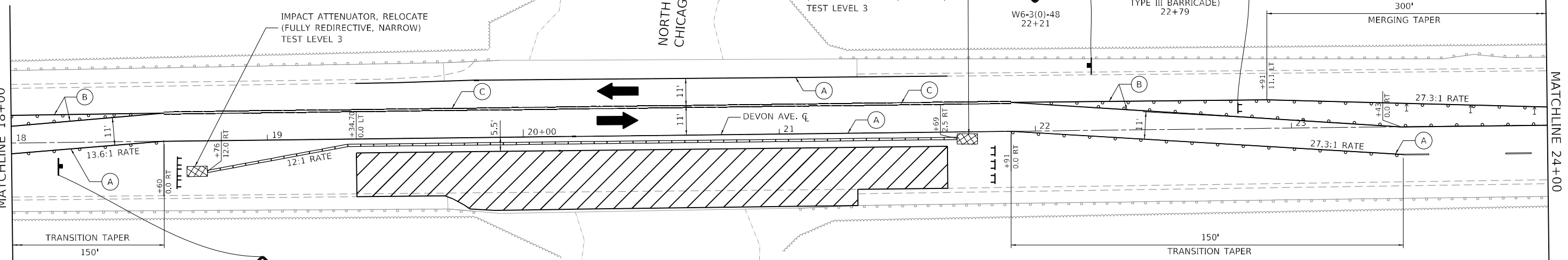
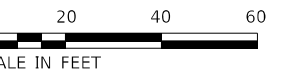
- (A) PAVT MARK LINE 4" SOLID WHITE - TYPE IV TAPE
- (B) PAVT MARK LINE 4" SOLID YELLOW - TYPE IV TAPE
- (C) PAVT MARK LINE 4" DOUBLE YELLOW @ 11" C-C - TYPE IV TAPE
- (D) PAVT MARK LINE 4" SKIP DASH WHITE (10'-30') - TYPE IV TAPE



IMPACT ATTENUATOR, RELOCATE  
(FULLY REDIRECTIVE, NARROW)  
TEST LEVEL 3

IMPACT ATTENUATOR, RELOCATE  
(FULLY REDIRECTIVE, NARROW)  
TEST LEVEL 3

NORTH BRANCH  
CHICAGO RIVER



**LEGEND**

- WORK ZONE
- TEMPORARY CONCRETE BARRIER WITH DOUBLE SIDED CRYSTAL TYPE C REFLECTORS PER STANDARD 704001 AND 782006
- IMPACT ATTENUATOR, TEMPORARY (FULL REDIRECTIVE, NARROW) TEST LEVEL 2
- DRUMS AT 50' C-C SPACING IN TANGENT, 20' C-C SPACING TAPERS, AND 10' C-C SPACING IN CURVES/RADII
- TYPE III BARRICADE
- TEMPORARY TRAFFIC SIGN
- DIRECTION OF TRAFFIC
- DIRECTION INDICATOR BARRICADE @ 25' C-C

**AEG** ATLAS ENGINEERING GROUP, LTD.

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PLOT DATE = 12/19/2023	CHECKED - BA	REVISD -
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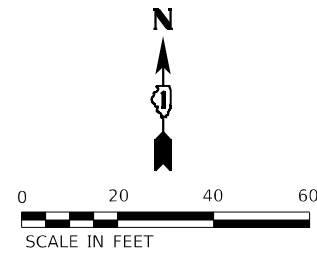
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL PLAN  
STAGE 3

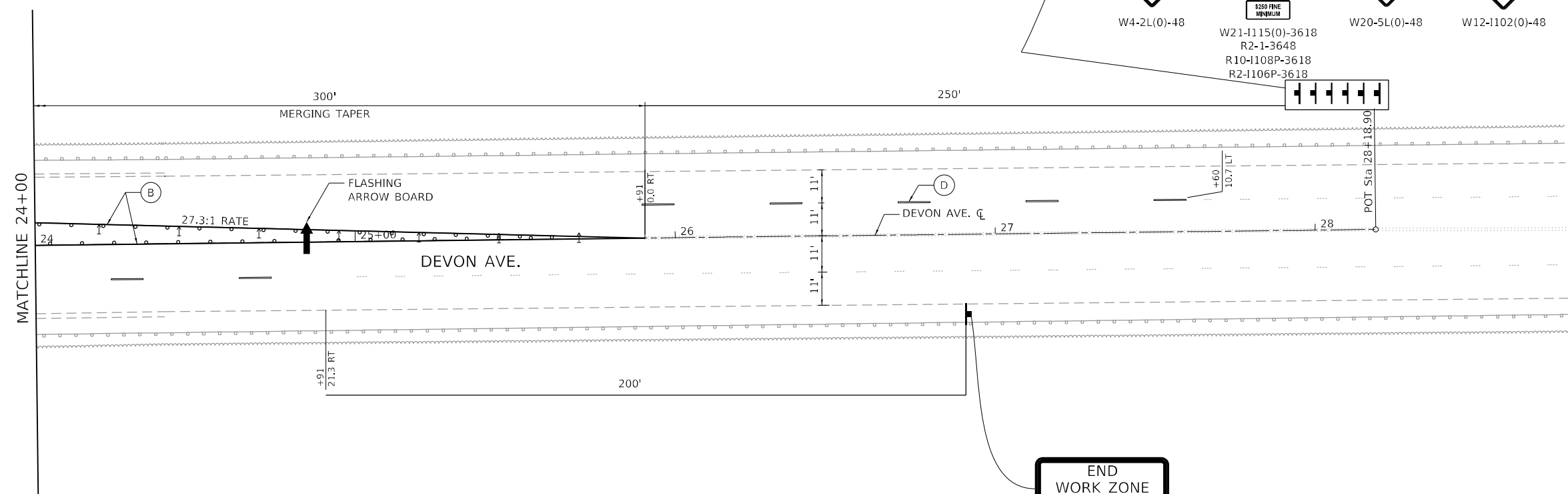
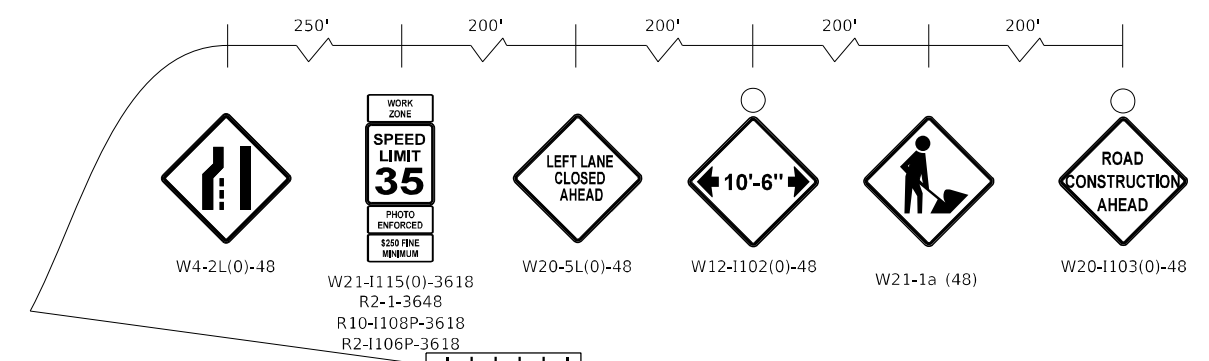
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F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1349	FAU 1349 22 BJ	COOK	27	11
CONTRACT NO. 62T38				
ILLINOIS FED. AID PROJECT				

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**ADVANCED WARNING**



**END  
WORK ZONE  
SPEED LIMIT**  
G20-1103-6036  
26+91

**TEMPORARY PAVEMENT MARKING LEGEND**

- (A) PAVT MARK LINE 4" SOLID WHITE - TYPE IV TAPE
- (B) PAVT MARK LINE 4" SOLID YELLOW - TYPE IV TAPE
- (C) PAVT MARK LINE 4" DOUBLE YELLOW @ 11" C-C - TYPE IV TAPE
- (D) PAVT MARK LINE 4" SKIP DASH WHITE (10'-30') - TYPE IV TAPE

**LEGEND**

- WORK ZONE
- TEMPORARY CONCRETE BARRIER WITH DOUBLE SIDED CRYSTAL TYPE C REFLECTORS PER STANDARD 704001 AND 782006
- IMPACT ATTENUATOR, TEMPORARY DRUMS AT 50' C-C SPACING IN TANGENT, 20' C-C SPACING TAPERS, AND 10' C-C SPACING IN CURVES/RADII
- TYPE III BARRICADE
- TEMPORARY TRAFFIC SIGN
- DIRECTION OF TRAFFIC
- DIRECTION INDICATOR BARRICADE @ 25' C-C

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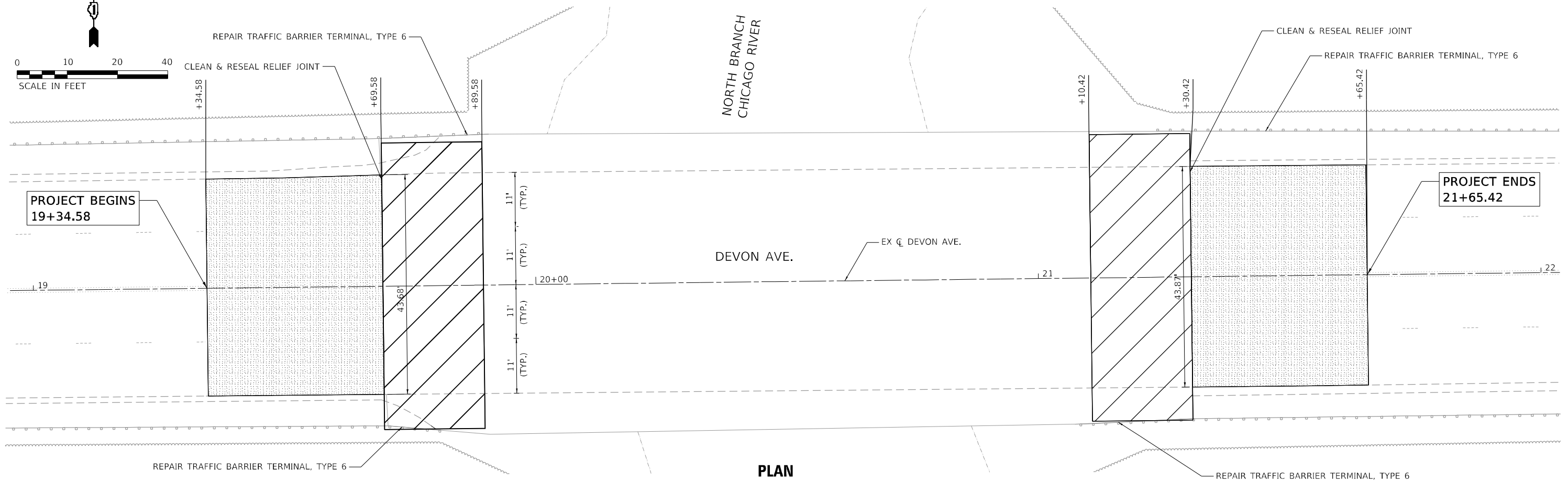
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**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

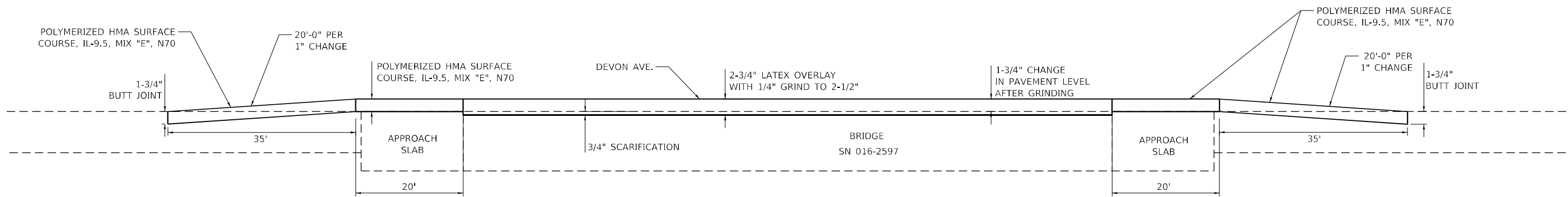
**TRAFFIC CONTROL PLAN  
STAGE 3**

SCALE: 1" = 20'    SHEET 8 OF 8 SHEETS    STA.    TO STA.

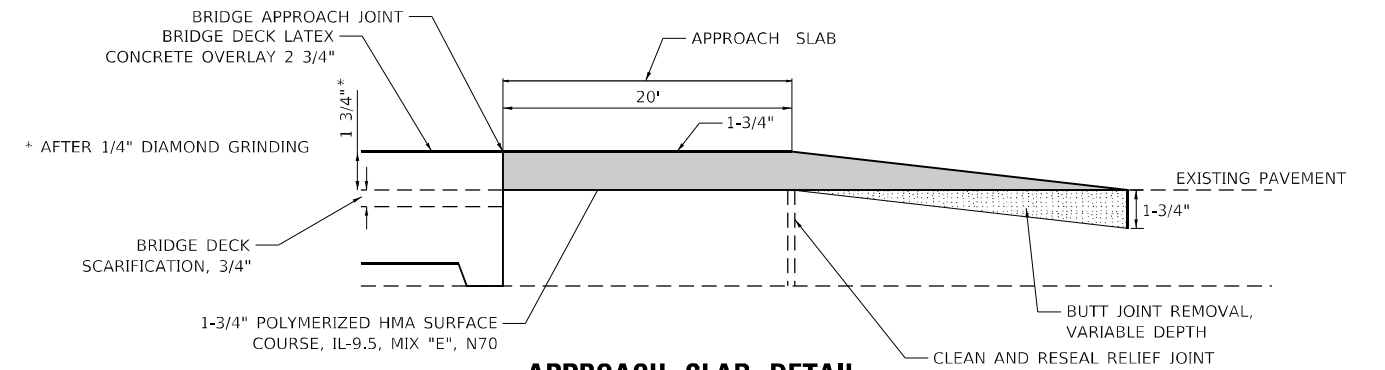
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1349	FAU 1349 22 BJ	COOK	27	12
CONTRACT NO. 62T38				
ILLINOIS FED. AID PROJECT				



PLAN






PROFILE DETAIL



APPROACH SLAB DETAIL

LEGEND

-  BUTT JOINT (SEE BD-32) 20'-0" PER 1" CHANGE
-  POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, IL-9.5, MIX "E", N70 1-3/4"
-  POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, IL-9.5, MIX "E", N70 1-3/4"

NOTES:

1. REPAIR TRAFFIC BARRIER TERMINAL, TYPE 6 TO BE DETERMINED DURING CONSTRUCTION AT ENGINEER'S DISCRETION.
2. FOR STRUCTURAL IMPROVEMENTS SEE STRUCTURAL PLANS.

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

ROADWAY PLAN  
DEVON AVE OVER NORTH BRANCH CHICAGO RIVER

SCALE: 1" = 10' SHEET 1 OF 1 SHEETS STA. TO STA.

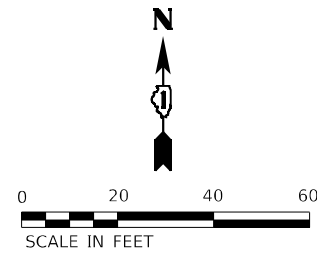
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1349	FAU 1349 22 BJ	COOK	27	13
CONTRACT NO. 62T38				

ILLINOIS FED. AID PROJECT

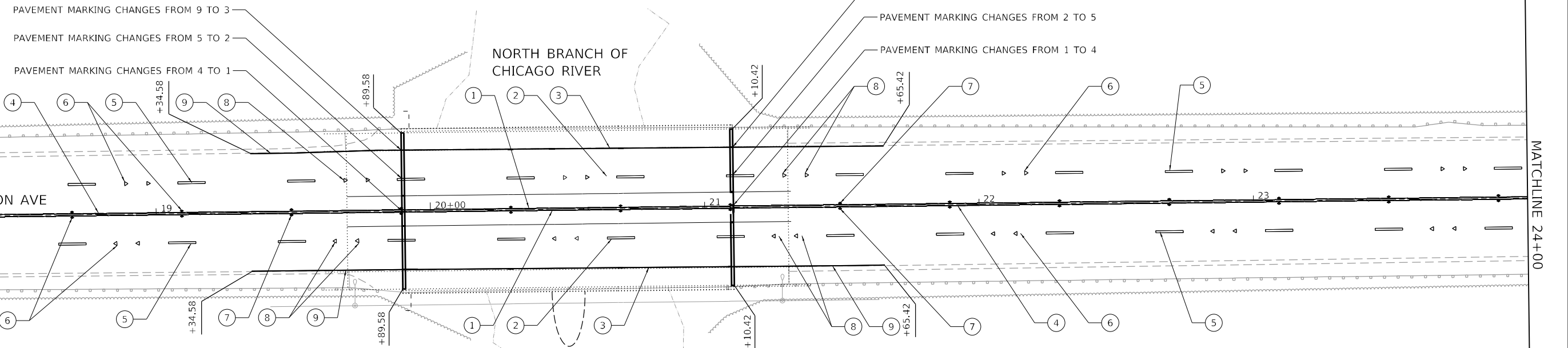
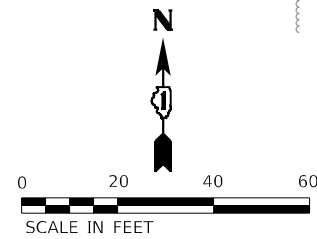
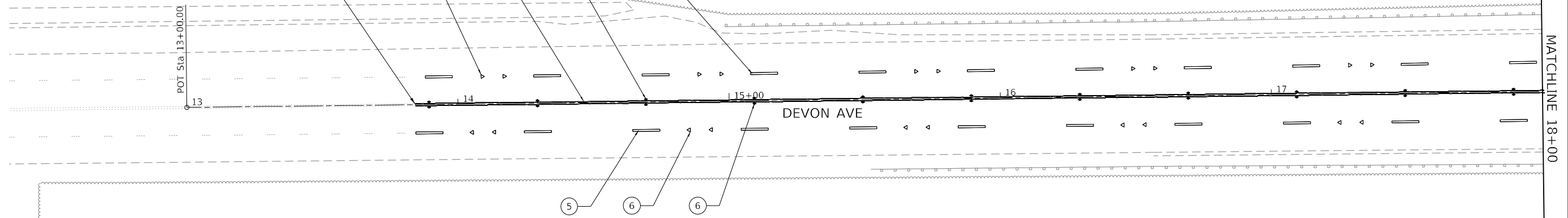
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AEG ATLAS ENGINEERING  
GROUP, LTD.

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PLOT SCALE = 20,0000 */ in.	DRAWN - NKA	REVISED -
PLOT DATE = 12/19/2023	CHECKED - BA	REVISED -
	DATE - 06/28/2024	REVISED -



BEGIN PAVEMENT MARKING  
STA 13+84.34



**LEGEND**

PAVEMENT MARKINGS ON BRIDGE DECK

- ① PREFORMED PLASTIC PAVEMENT MARKING, TYPE D - STANDARD - LINE 4" (SOLID DOUBLE YELLOW, 11" C-C) (GROOVED)
- ② PREFORMED PLASTIC PAVEMENT MARKING, TYPE D - STANDARD - LINE 7" (1.5" BLACK, 4" WHITE, 1.5" BLACK) (10' LINE, 30' DASH) (GROOVED)
- ③ MODIFIED URETHANE PAVEMENT MARKING - LINE 4" (SOLID WHITE EDGE LINE)

PAVEMENT MARKINGS ON HMA

- ④ THERMOPLASTIC PAVEMENT MARKING - LINE 4" (SOLID DOUBLE YELLOW, 11" C-C)
- ⑤ THERMOPLASTIC PAVEMENT MARKING - LINE 4" (10' LINE, 30' DASH) (WHITE)
- ⑨ THERMOPLASTIC PAVEMENT MARKING - LINE 4" (SOLID WHITE EDGE LINE)

RAISED REFLECTIVE PAVEMENT MARKERS

- ⑥ RAISED REFLECTIVE PAVEMENT MARKER, REFLECTOR REPLACEMENT
- ⑦ RAISED REFLECTIVE PAVEMENT MARKER (TWO-WAY AMBER)
- ⑧ RAISED REFLECTIVE PAVEMENT MARKER (ONE-WAY CRYSTAL)

**NOTE:**

1. ALL PAVEMENT MARKINGS SHALL BE INSTALLED ACCORDING TO IDOT PAVEMENT MARKING DETAIL TC-13.
2. RAISED REFLECTIVE PAVEMENT MARKER SHALL NOT BE INSTALLED WITHIN BRIDGE LIMITS.

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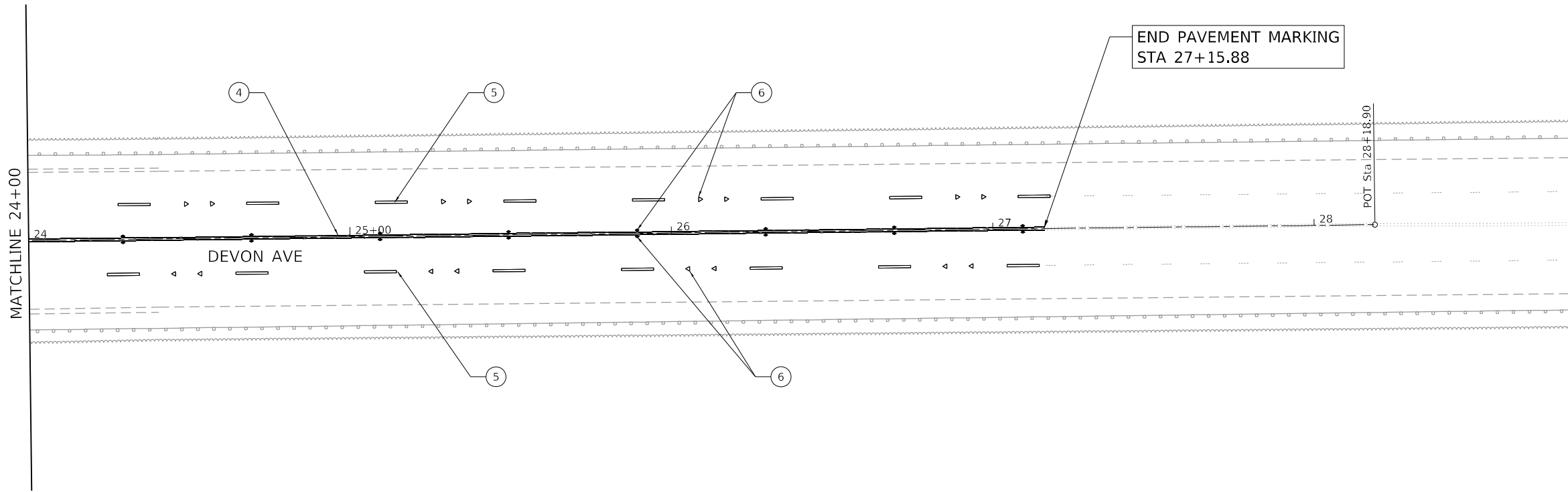
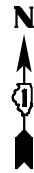
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PLOT DATE = 12/19/2023	DATE - 06/28/2024	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**PAVEMENT MARKING PLAN  
DEVON AVE OVER NORTH BRANCH OF CHICAGO RIVER**

SCALE: 1" = 20' SHEET 1 OF 2 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1349	FAU 1349 22 BJ	COOK	27	14
ILLINOIS FED. AID PROJECT			CONTRACT NO. 62338	



**LEGEND**

PAVEMENT MARKINGS ON BRIDGE DECK

- ① PREFORMED PLASTIC PAVEMENT MARKING, TYPE D - STANDARD - LINE 4" (SOLID DOUBLE YELLOW, 11" C-C) (GROOVED)
- ② PREFORMED PLASTIC PAVEMENT MARKING, TYPE D - STANDARD - LINE 7" (1.5" BLACK, 4" WHITE, 1.5" BLACK) (10' LINE, 30' DASH) (GROOVED)
- ③ MODIFIED URETHANE PAVEMENT MARKING - LINE 4" (SOLID WHITE EDGE LINE)

PAVEMENT MARKINGS ON HMA

- ④ THERMOPLASTIC PAVEMENT MARKING - LINE 4" (SOLID DOUBLE YELLOW, 11" C-C)
- ⑤ THERMOPLASTIC PAVEMENT MARKING - LINE 4" (10' LINE, 30' DASH) (WHITE)
- ⑨ THERMOPLASTIC PAVEMENT MARKING - LINE 4" (SOLID WHITE EDGE LINE)

RAISED REFLECTIVE PAVEMENT MARKERS

- ⑥ RAISED REFLECTIVE PAVEMENT MARKER, REFLECTOR REPLACEMENT
- ⑦ RAISED REFLECTIVE PAVEMENT MARKER (TWO-WAY AMBER)
- ⑧ RAISED REFLECTIVE PAVEMENT MARKER (ONE-WAY CRYSTAL)

NOTE:

1. ALL PAVEMENT MARKINGS SHALL BE INSTALLED ACCORDING TO IDOT PAVEMENT MARKING DETAIL TC-13.
2. RAISED REFLECTIVE PAVEMENT MARKER SHALL NOT BE INSTALLED WITHIN BRIDGE LIMITS.

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PLOT DATE = 12/19/2023	DATE - 06/28/2024	REVISED -

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

**PAVEMENT MARKING PLAN**  
**DEVON AVE OVER NORTH BRANCH OF CHICAGO RIVER**

SCALE: 1" = 20'    SHEET 2 OF 2 SHEETS    STA.                      TO STA.

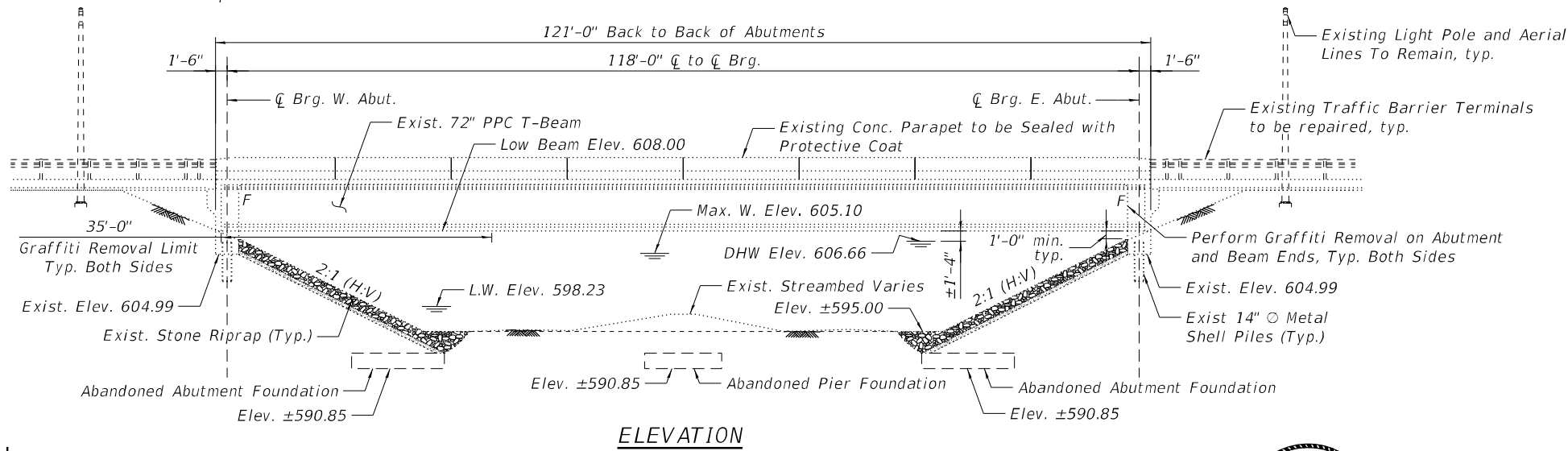
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1349	FAU 1349 22 BJ	COOK	27	15
CONTRACT NO. 62T38			ILLINOIS FED. AID PROJECT	

Bench Mark: Chiseled "□" in sidewalk at S.E. corner of bridge. Elev. 615.13. All elevations are from the 1991 bridge plans.

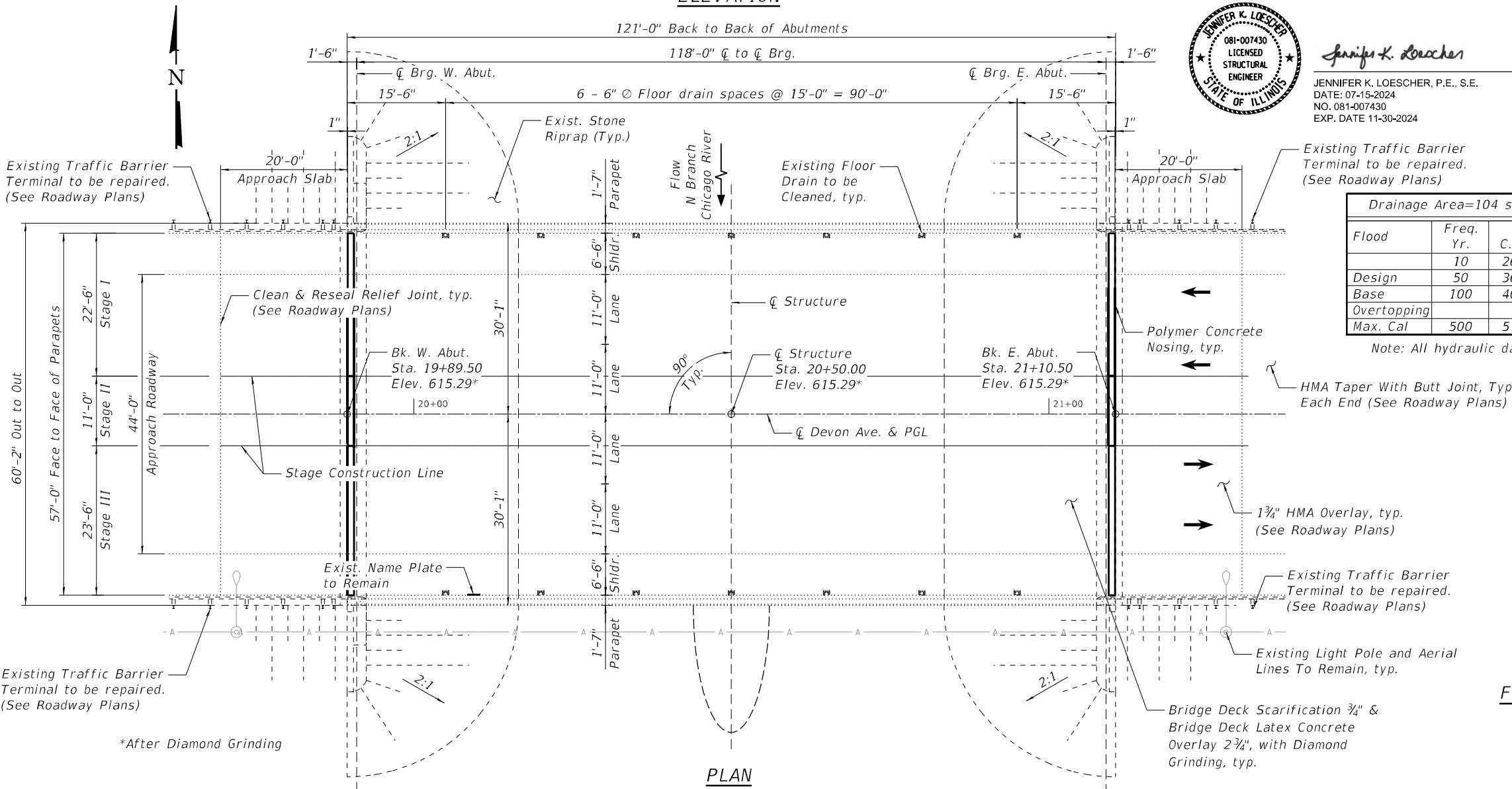
Existing Structure: SN 016-0833 was originally constructed in 1930 as a two simple span concrete T-beam bridge. Reconstruction in 1991 under FAU 1349 Section 1349B-89 included removal of existing pier and abutments to top of footing. Constructed in 1992, SN 016-2597 is a single span with a total length of 121'-0" from back to back of abutments, an overall width of 60'-2" out to out, and a 00°00'00" skew to the local tangent. The superstructure consists of a 7½" thick concrete deck on eight 72" Prestressed Concrete T-Beams. The substructure consists of reinforced concrete integral abutments on metal shell piles.

Traffic on Devon Ave. shall be maintained utilizing stage construction.

No Salvage.



ELEVATION



PLAN

**LOADING HS 20-44 (EXIST.)**

No future wearing surface.

**DESIGN STRESSES**

**FIELD UNITS (NEW. CONST.)**

f'c = 3,500 psi (Substructure)  
f'c = 4,000 psi (Superstructure)  
fy = 60,000 psi (Reinforcing Steel)

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

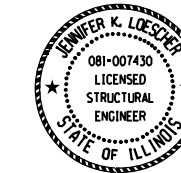
Cast in Place Reinforced Concrete  
f'c = 3,500 psi (Concrete)  
fy = 60,000 psi (Reinforcing Steel)  
Precast Pre-stressed Concrete  
f'c = 6,000 psi  
f'ci = 5,000 psi  
Low Relaxation Strands  
f's = 270,000 psi (½" Ø strands)  
f'y = 229,000 psi  
f'si = 201,960 psi (½" Ø strands)  
f's = 183,600 psi (Allow Final Tension)

**DESIGN SPECIFICATIONS (NEW CONST.)**

2002 AASHTO Standard Specification for Highway Bridges, 17th Edition

**DESIGN SPECIFICATIONS (EXIST.)**

1989 AASHTO Specifications with 1990 Interim  
1983 AASHTO Seismic Design of Highway with 1985 & 1988 Interim Specifications



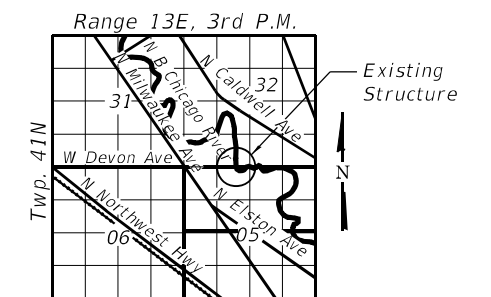
JENNIFER K. LOESCHER

JENNIFER K. LOESCHER, P.E., S.E.  
DATE: 07-15-2024  
NO. 081-007430  
EXP. DATE 11-30-2024

**WATERWAY INFORMATION**

		Drainage Area=104 sq.mi.		Low Grade Elev.=614.04		Sta. 24+00				
Flood	Freq. Yr.	Q C.F.S.	Opening Sq. Ft.		NAT. H.W.E.		Head-Ft		Headwater El.	
			Exist.	Prop.	Exist.	Prop.	Exist.	Prop.	Exist.	Prop.
Design	10	2645	565	780	604.3	0.8	0.5	605.1	604.8	
Base	50	3610	730	1060	606.7	0.8	0.4	607.5	607.1	
Overtopping	100	4005	840	1220	608.3	0.8	0.3	609.1	608.6	
Max. Cal	500	5106	980	1220	610.4	0.8	0.5	611.2	610.9	

Note: All hydraulic data is from 1991 bridge plans.



LOCATION SKETCH

**GENERAL PLAN AND ELEVATION  
DEVON AVE. OVER N. BRANCH OF  
THE CHICAGO RIVER**  
F.A.U. ROUTE 1349 SECTION F.A.U. 1349 22 BJ  
COOK COUNTY  
STATION 20+50.00  
STRUCTURE NO. 016-2597

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

GENERAL PLAN AND ELEVATION  
STRUCTURE NO. 016-2597

SHEET S-1 OF S-8 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1349	FAU 1349 22 BJ	COOK	27	16
CONTRACT NO. 62T38				

ILLINOIS FED. AID PROJECT

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AEG ATLAS ENGINEERING GROUP, LTD.

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=	-	-
PILOT DATE	DRAWN - KB	REVISION
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	CHECKED - 04/15/2024	REVISION
	-	-



**TOTAL BILL OF MATERIAL**

ITEM	UNIT	SUPER	SUB	TOTAL
Protective Coat	Sq. Yd.	861	-	861
Graffiti Removal	Sq. Yd.	1,656	265	1,921
Floor Drains To Be Cleaned	Each	14	-	14
Bridge Deck Grooving (Longitudinal)	Sq. Yd.	588	-	588
Approach Slab Repair (Full Depth)	Sq. Yd.	1	-	1
Approach Slab Repair (Partial Depth)	Sq. Yd.	15	-	15
Bridge Deck Latex Concrete Overlay, 2 3/4" Inches	Sq. Yd.	762	-	762
Bridge Deck Scarification 3/4"	Sq. Yd.	766	-	766
Structural Repair Of Concrete (Depth Equal To Or Less Than 5 Inches)	Sq. Ft.	4	-	4
Deck Slab Repair (Full Depth, Type II)	Sq. Yd.	1	-	1
Diamond Grinding (Bridge Section)	Sq. Yd.	762	-	762
Polymer Concrete	Cu. Ft.	7	-	7

**INDEX OF SHEETS**

- S-1 General Plan and Elevation
- S-2 General Data
- S-3 Stage I Construction Details
- S-4 Stage II Construction Details
- S-5 Stage III Construction Details
- S-6 Deck Repair
- S-7 Parapet Repairs
- S-8 Substructure Repairs

**SCOPE OF WORK**

1. Perform 3/4" bridge deck scarification (deck only).
2. Perform partial and full depth deck repairs.
3. Perform concrete repair.
4. Perform approach slab repairs.
5. Place 2 3/4" bridge deck latex concrete overlay.
6. Clean and reseal pavement relief joints. (See Roadway Plans)
7. Place 1 3/4" HMA overlay on approach slabs. (See Roadway Plans).
8. Place polymer concrete nosing at abutments.
9. Place HMA overlay on approach roadway. (See Roadway Plans).
10. Perform diamond grinding on deck overlay.
11. Perform bridge deck grooving (longitudinal).
12. Apply protective coat to bridge deck and parapets.
13. Clean floor drains.
14. Perform graffiti removal on substructure and beams.
15. Perform guardrail work. (See Roadway Plans).

**GENERAL NOTES**

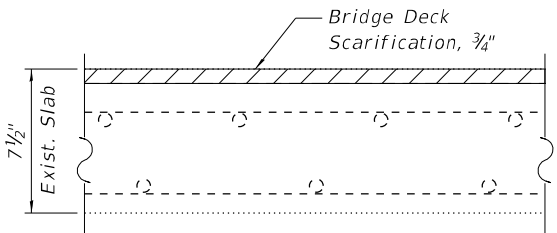
Plan dimensions and details relative to the existing structure have been taken from existing plans and are subject to nominal construction variations. The contractor shall field verify existing dimensions and details affecting new construction and make necessary approved adjustments prior to construction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

Prior to pouring the new concrete overlay, all heavy or loose rust, loose mill scale, and other loose detrimental foreign material shall be removed from the surfaces in contact with concrete (SSPC- SP3 standards). Tightly adhered paint may remain unless otherwise noted. Removal shall be accomplished by methods that will not damage the steel and the cost will be paid for according to Article 109.04 of the Standard Specifications.

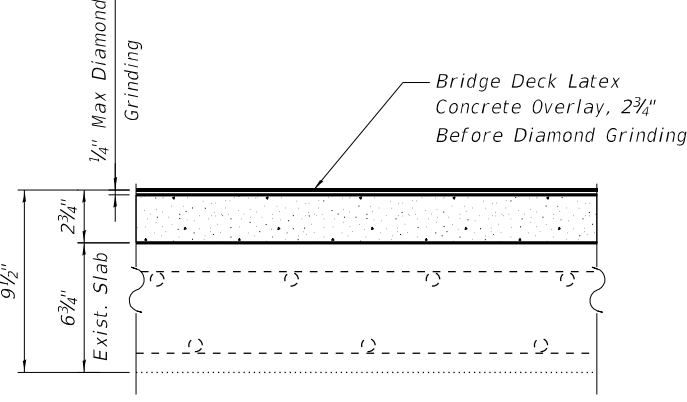
Contractor shall not scale dimensions from the contract plans for construction purposes. Scales shown for information only.

All exposed concrete edges shall have a 3/4"x45° chamfer except where shown otherwise.

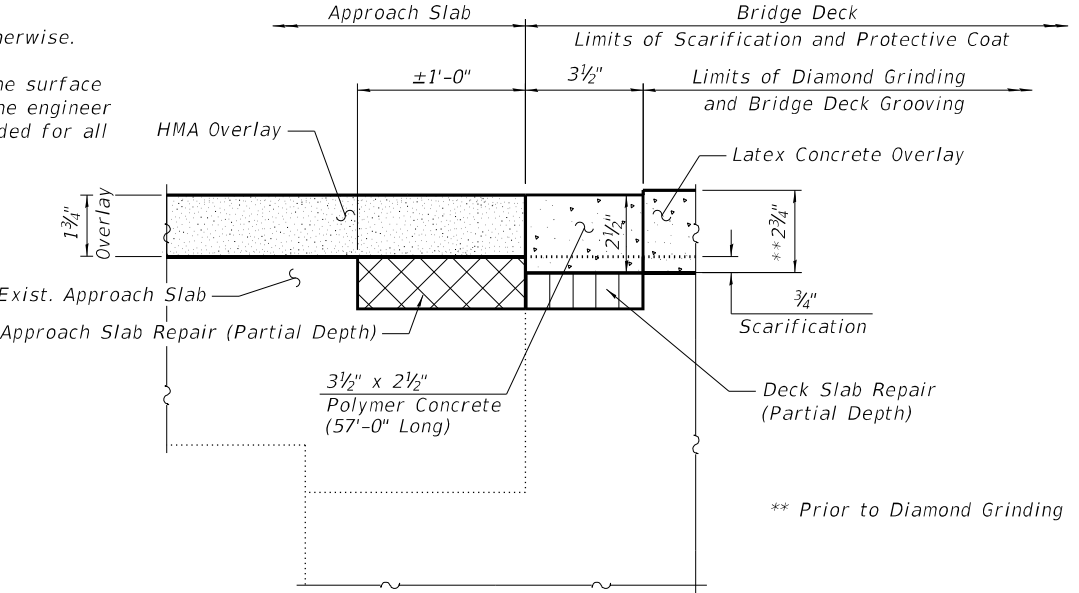
In addition to the requirements of Article 107.16 the contractor shall protect the surface of all bridge decks and bridge approach pavements in a manner satisfactory to the engineer before any equipment is allowed to cross the structure. Protection shall be provided for all equipment as defined in Article 107.16 regardless if track mounted or wheeled.



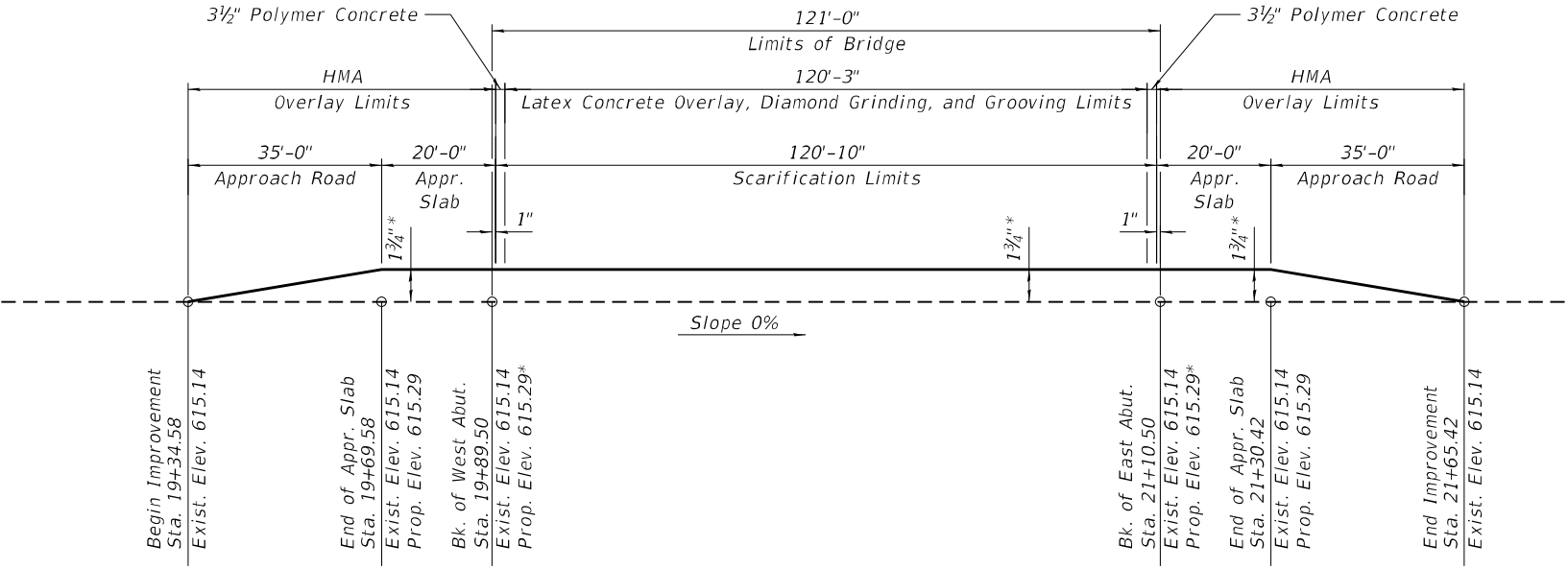
**EXISTING BRIDGE DECK CROSS SECTION DETAIL**



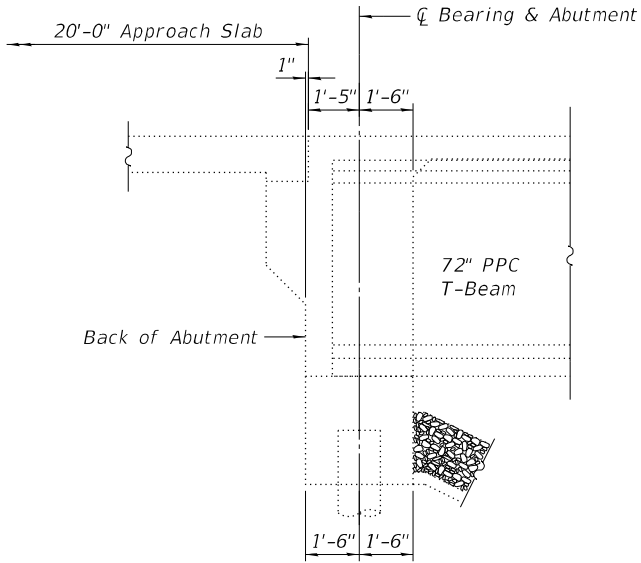
**PROPOSED BRIDGE DECK CROSS SECTION DETAIL**



**POLYMER CONCRETE NOSING DETAIL**  
(Typ. Each Approach)



**PROFILE GRADE**  
(@ Devon Ave)



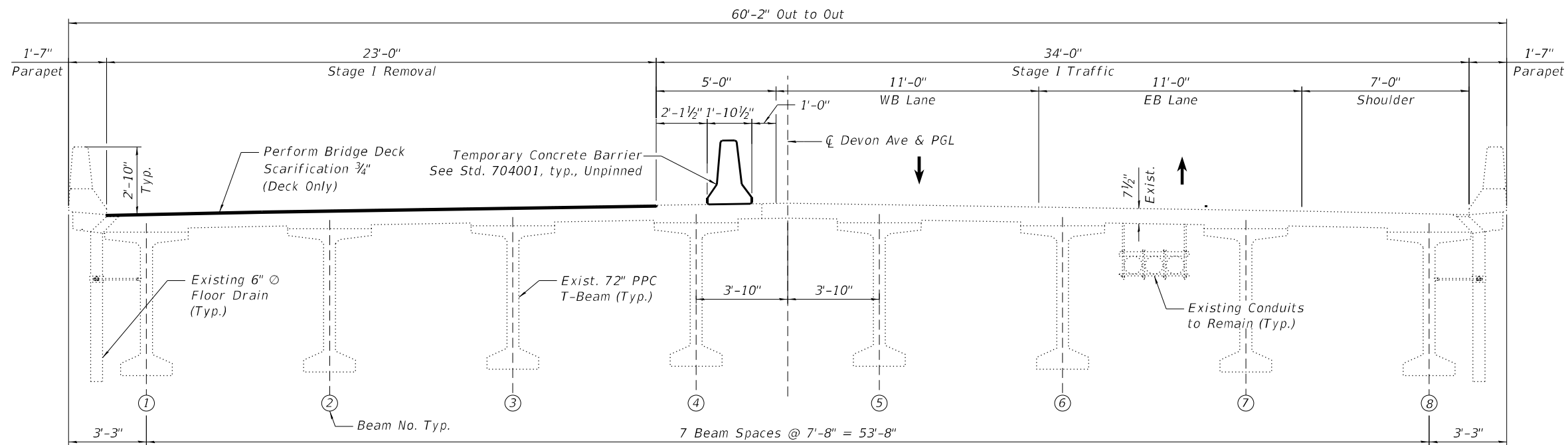
**EXISTING ABUTMENT SECTION**

**LEGEND**  
 - - - Existing  
 — Proposed

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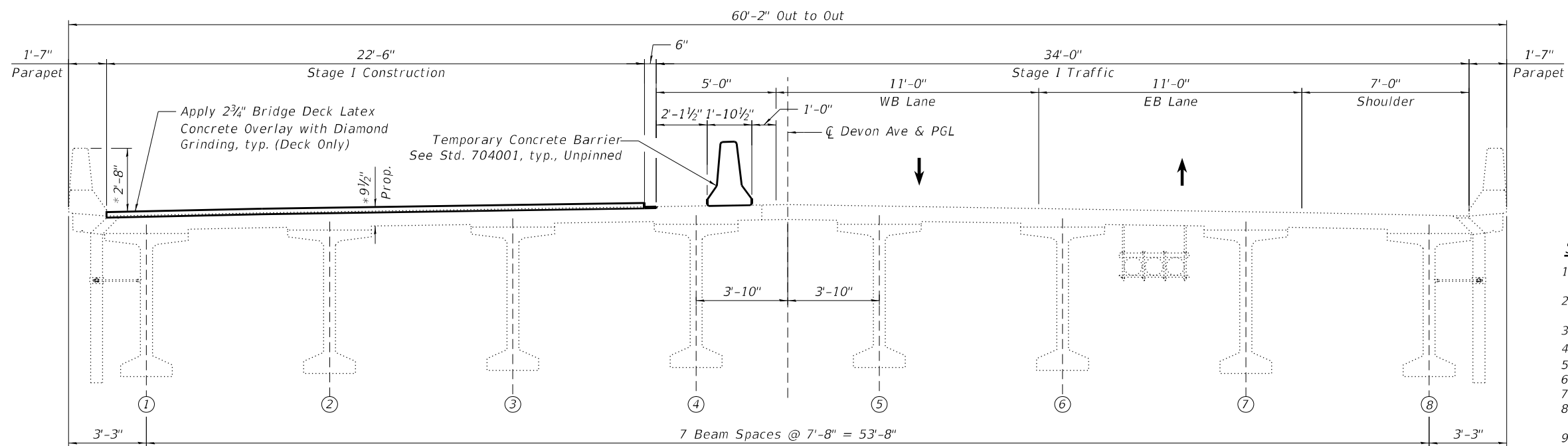
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 12/19/2023 3:51:38 PM



**STAGE I REMOVAL**  
(Looking East)

- STAGE I REMOVAL**
1. Install temporary concrete barrier as shown.
  2. Scarify 3/4" from bridge deck as shown in the plans.
  3. As part of scarification, remove deck area for polymer nosing at abutments.



**STAGE I CONSTRUCTION**  
(Looking East)

- STAGE I CONSTRUCTION**
1. Perform partial and full-depth approach slab repairs at locations shown in the plans.
  2. Perform partial and full-depth bridge deck repairs at locations shown in the plans.
  3. Apply 2 3/4" bridge deck latex concrete overlay to bridge deck.
  4. Place 1 3/4" HMA overlay on approach slabs.
  5. Place polymer concrete nosing at abutments.
  6. Perform diamond grinding.
  7. Perform bridge deck grooving for the latex overlay.
  8. Apply protective coat to the top and inside faces of existing parapets and to the latex overlay.
  9. Clean floor drains.

\*Prior to Diamond Grinding

**AEG ATLAS ENGINEERING GROUP, LTD.**

USER NAME =	DESIGNED - SPB	REVISED -
	CHECKED - JKL	REVISED -
PLOT SCALE =	DRAWN - KB	REVISED -
PLOT DATE =	CHECKED - 04/15/2024	REVISED -

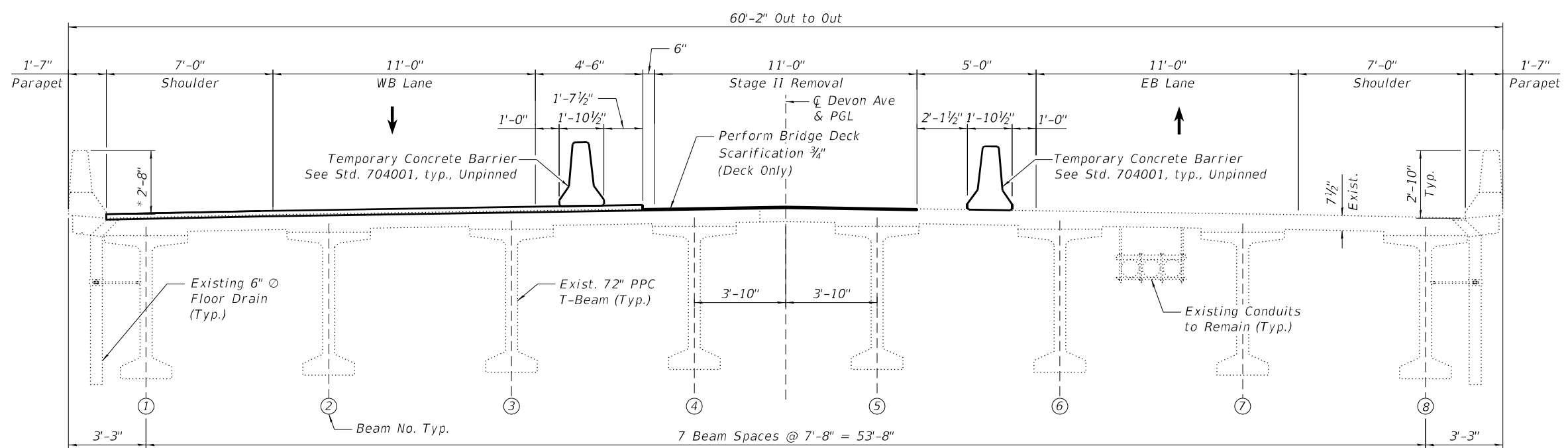
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**STAGE I CONSTRUCTION DETAILS  
STRUCTURE NO. 016-2597**

SHEET S-3 OF S-8 SHEETS

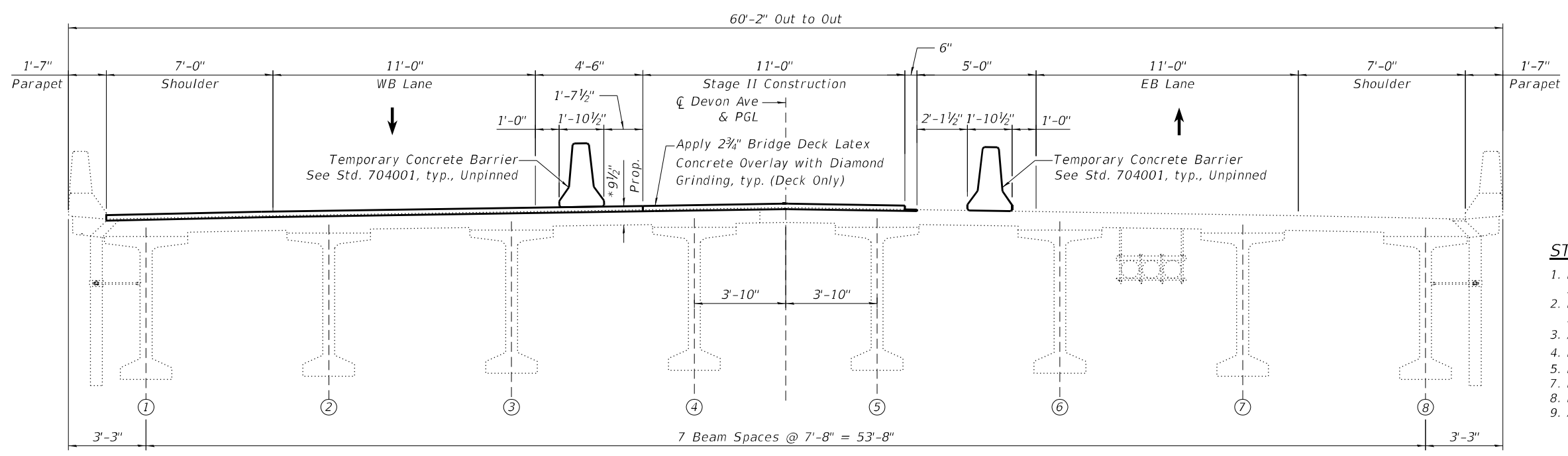
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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CONTRACT NO. 62T38				
ILLINOIS FED. AID PROJECT				

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 12/19/2023 3:51:41 PM



**STAGE II REMOVAL**  
(Looking East)

- STAGE II REMOVAL**
1. Install temporary concrete barrier as shown.
  2. Scarify 3/4" from bridge deck as shown in the plans.
  3. As part of scarification, remove deck area for polymer nosing at abutments.



**STAGE II CONSTRUCTION**  
(Looking East)

- STAGE II CONSTRUCTION**
1. Perform partial and full-depth approach slab repairs at locations shown in the plans.
  2. Perform partial and full-depth bridge deck repairs at locations shown in the plans.
  3. Apply 2 3/4" bridge deck latex concrete overlay to bridge deck.
  4. Place 1 3/4" HMA overlay on approach slabs.
  5. Place polymer concrete nosing at abutments.
  7. Perform diamond grinding.
  8. Perform bridge deck grooving for the latex overlay.
  9. Apply protective coat to the latex overlay.

\*Prior to Diamond Grinding

**AEG ATLAS ENGINEERING GROUP, LTD.**

USER NAME =	DESIGNED - SPB	REVISED -
CHECKED - JKL	REVISED -	
PLOT SCALE =	DRAWN - KB	REVISED -
PLOT DATE =	CHECKED - 04/15/2024	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

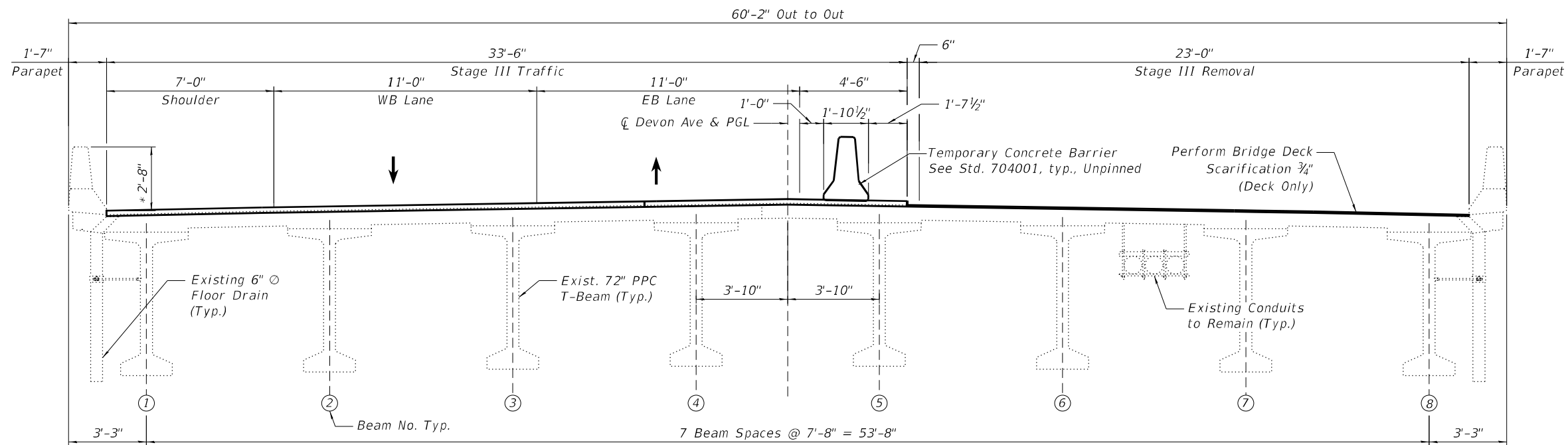
**STAGE II CONSTRUCTION DETAILS  
STRUCTURE NO. 016-2597**

SHEET S-4 OF S-8 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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CONTRACT NO. 62T38				

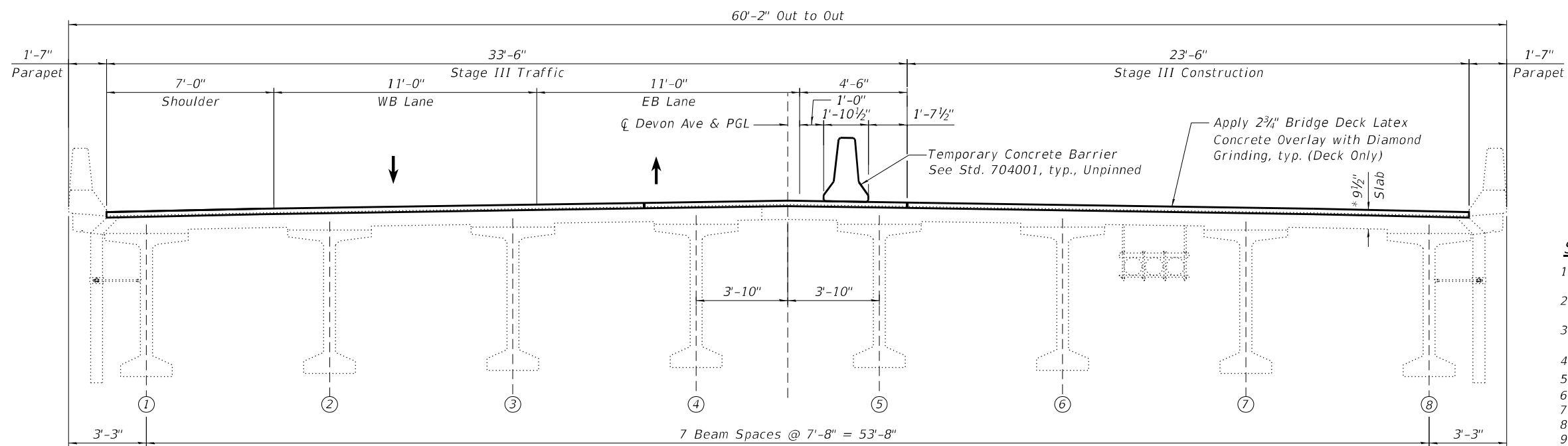
ILLINOIS FED. AID PROJECT

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**STAGE III REMOVAL**  
 (Looking East)

- STAGE III REMOVAL**
1. Install temporary concrete barrier as shown.
  2. Scarify 3/4" from bridge deck as shown in the plans.
  3. As part of scarification, remove deck area for polymer nosing at abutments.



**STAGE III CONSTRUCTION**  
 (Looking East)

- STAGE III CONSTRUCTION**
1. Perform partial and full-depth approach slab repairs at locations shown in the plans.
  2. Perform partial and full-depth bridge deck repairs at locations shown in the plans.
  3. Perform parapet concrete repairs at locations shown in the plans.
  4. Apply 2 3/4" bridge deck latex concrete overlay to bridge deck.
  5. Place 1 3/4" HMA overlay on approach slabs.
  6. Place polymer concrete nosing at abutments.
  7. Perform diamond grinding.
  8. Perform bridge deck grooving for the latex overlay.
  9. Apply protective coat to the top and inside faces of existing parapets and to the latex overlay.
  10. Clean floor drains.

\*Prior to Diamond Grinding

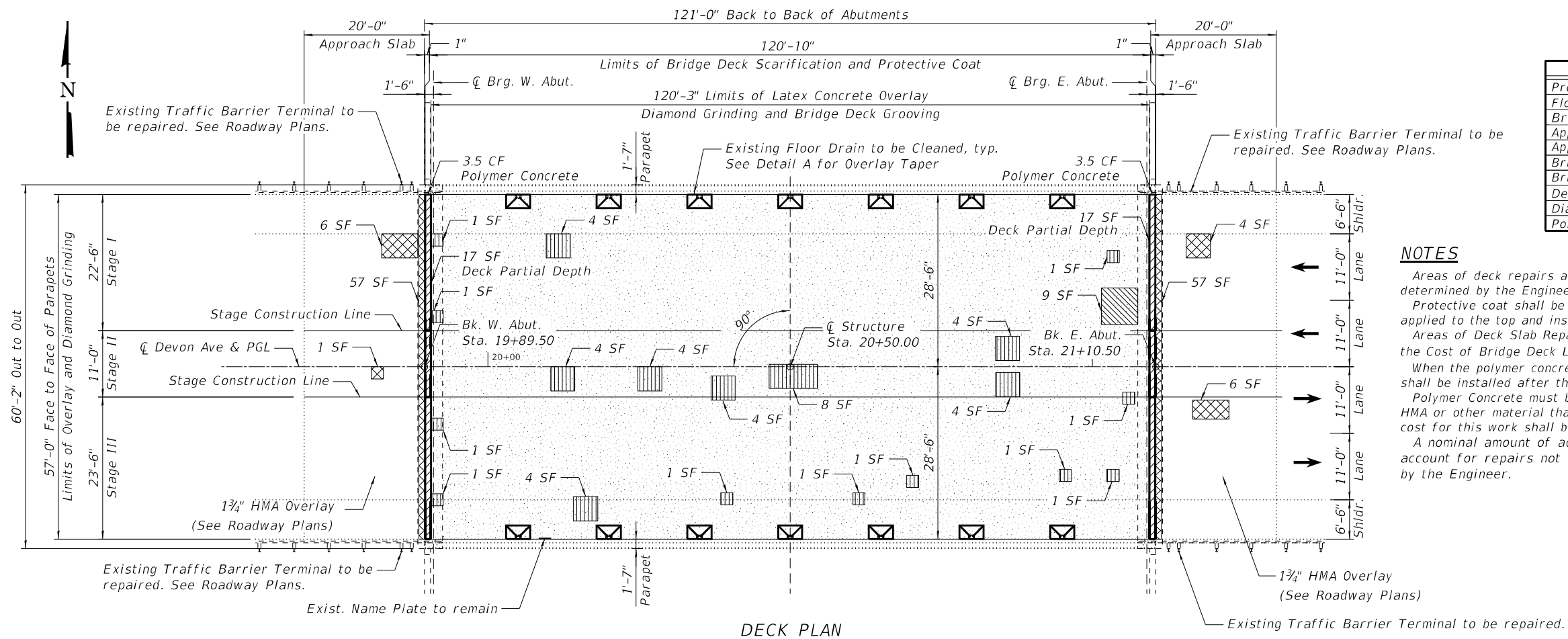
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	PLOT DATE =	CHECKED - 04/15/2024	REVISED -	SHEET S-5 OF S-8 SHEETS		CONTRACT NO. 62T38			ILLINOIS FED. AID PROJECT	

**BILL OF MATERIAL**

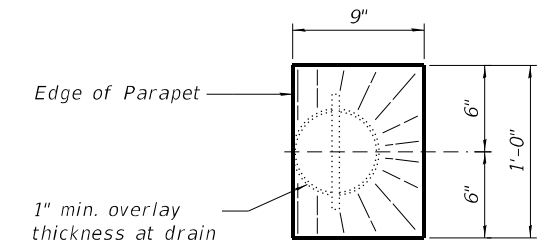
ITEM	UNIT	TOTAL
Protective Coat	Sq. Yd.	861
Floor Drains to be Cleaned	Each	14
Bridge Deck Grooving (Longitudinal)	Sq. Yd.	588
Approach Slab Repair (Full Depth)	Sq. Yd.	1
Approach Slab Repair (Partial Depth)	Sq. Yd.	15
Bridge Deck Latex Concrete Overlay, 2 3/4" inches	Sq. Yd.	762
Bridge Deck Scarification 3/4"	Sq. Yd.	766
Deck Slab Repair (Full Depth, Type II)	Sq. Yd.	1
Diamond Grinding (Bridge Section)	Sq. Yd.	762
Polymer Concrete	Cu. Ft.	7

**NOTES**

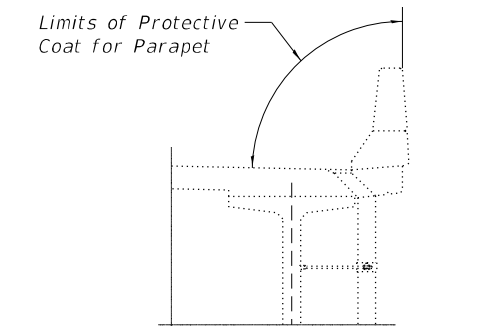
Areas of deck repairs are estimated. Actual type, location, and dimensions are to be determined by the Engineer during construction and documented on as-built plans.  
 Protective coat shall be applied to the top surface of the concrete overlay. It shall also be applied to the top and inside vertical faces of existing parapet. See Detail B.  
 Areas of Deck Slab Repair (Partial) are shown for information only and shall be included in the Cost of Bridge Deck Latex Concrete Overlay, 2 3/4".  
 When the polymer concrete nosing is to be installed adjacent to a deck overlay, the nosing shall be installed after the overlay is placed.  
 Polymer Concrete must be placed in direct contact with the concrete deck. Removal of all HMA or other material that may adhere to the Polymer Concrete contact areas is required. The cost for this work shall be included in the pay item for Polymer Concrete.  
 A nominal amount of additional Full Depth repair quantities have been provided to account for repairs not shown. Actual repair areas shall be determined in the field by the Engineer.



**DECK PLAN**



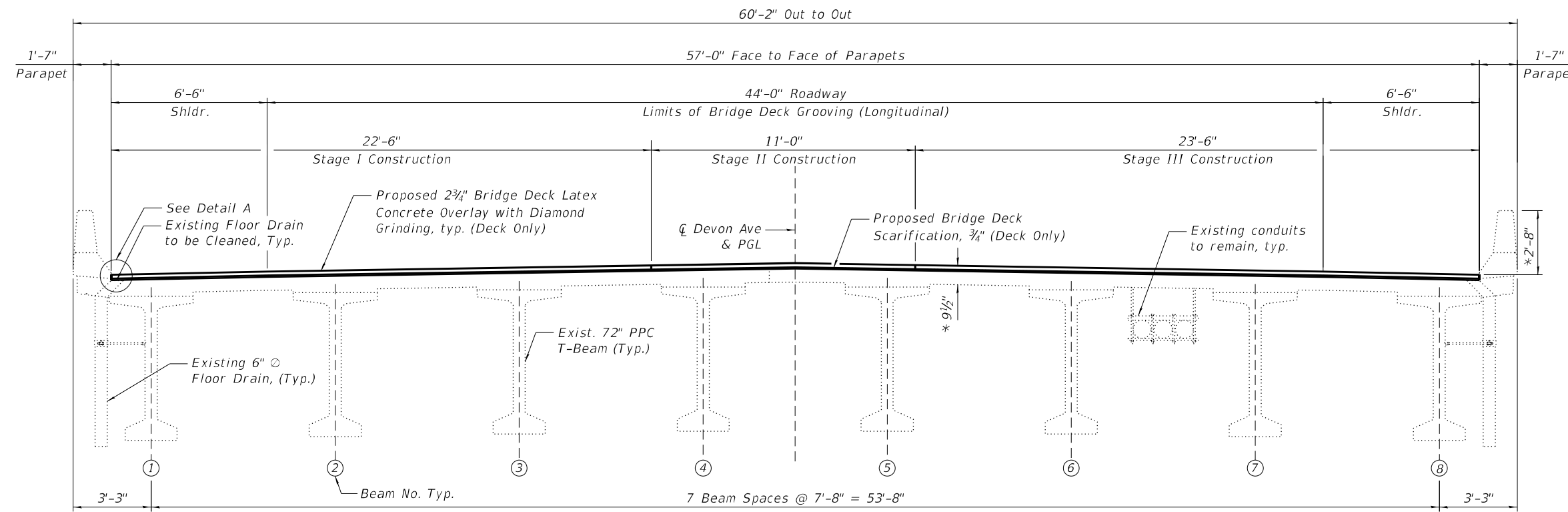
**DETAIL A  
TOP PLAN SHOWING OVERLAY  
TAPER AT FLOOR DRAINS**



**DETAIL B  
LIMITS OF PROTECTIVE COAT**

**LEGEND**

- Bridge Deck Scarification 3/4"
- Bridge Deck Latex Concrete Overlay 2 3/4"
- Polymer Concrete Nosing
- Bridge Deck Scarification 3/4"
- Deck Slab Repair (Partial) For Information Only
- Deck Slab Repair (Full Depth)
- Approach Slab Repair (Partial Depth)



**CROSS SECTION**

(Looking East)

\* Prior to Diamond Grinding

**AEG ATLAS ENGINEERING GROUP, LTD.**

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PLOT SCALE =	CHECKED - JKL	REVISED -
PLOT DATE =	DRAWN - KB	REVISED -
	CHECKED - 04/15/2024	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

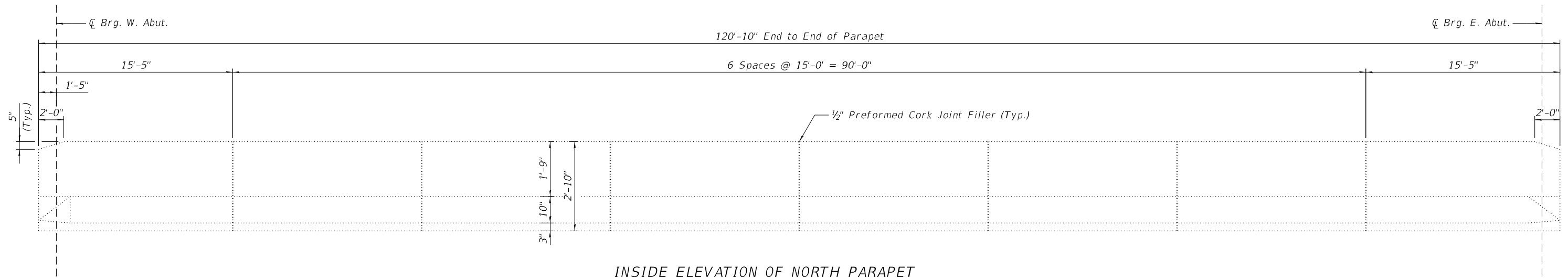
**DECK REPAIR  
STRUCTURE NO. 016-2597**

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CONTRACT NO. 62T38				

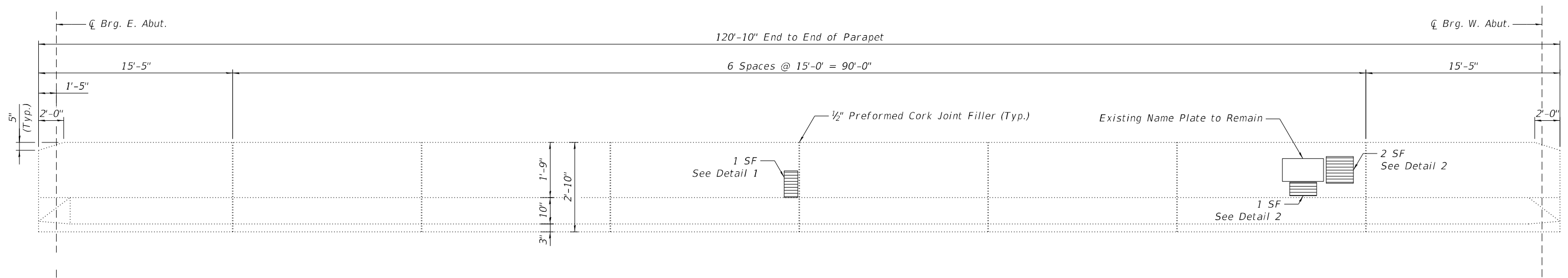
SHEET S-6 OF S-8 SHEETS

ILLINOIS FED. AID PROJECT

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**INSIDE ELEVATION OF NORTH PARAPET**  
 (Looking North)



**INSIDE ELEVATION OF SOUTH PARAPET**  
 (Looking South)



**DETAIL 1**



**DETAIL 2**

**BILL OF MATERIAL**

ITEM	UNIT	TOTAL
Structural Repair of Concrete (Depth Equal to or Less than 5 inches)	Sq. Ft.	4

**LEGEND**

Structural Repair of Concrete (Depth Equal to or Less than 5 inches)

<b>AEG ATLAS ENGINEERING GROUP, LTD.</b>	USER NAME =	DESIGNED - SPB	REVISED -
	PLOT SCALE =	CHECKED - JKL	REVISED -
	PLOT DATE =	DRAWN - KB	REVISED -
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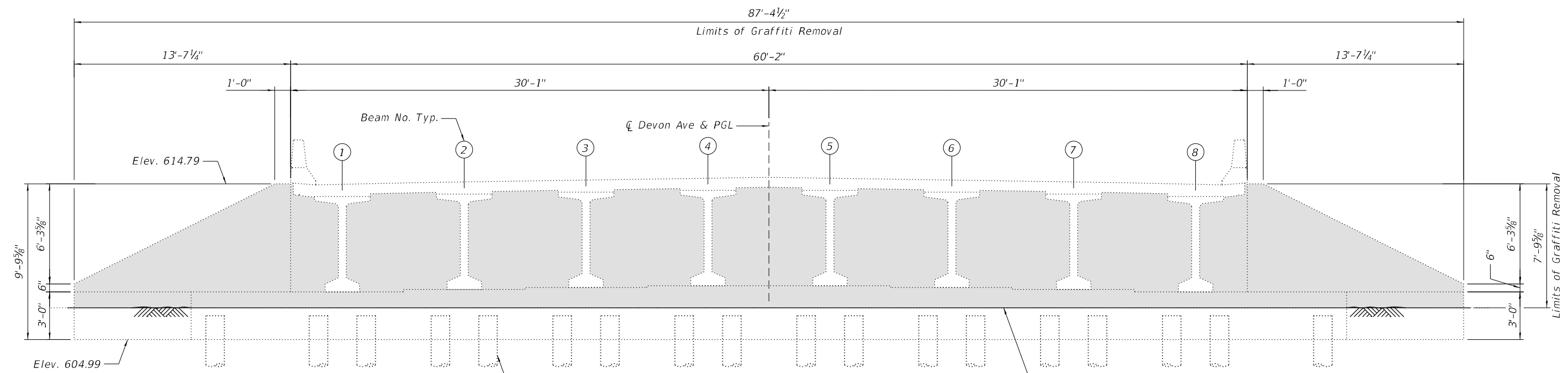
**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**PARAPET REPAIRS  
 STRUCTURE NO. 016-2597**

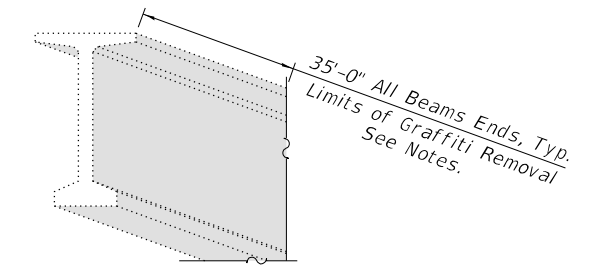
SHEET S-7 OF S-8 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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CONTRACT NO. 62T38				
ILLINOIS FED. AID PROJECT				

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**EAST ABUTMENT**  
 (Looking East)



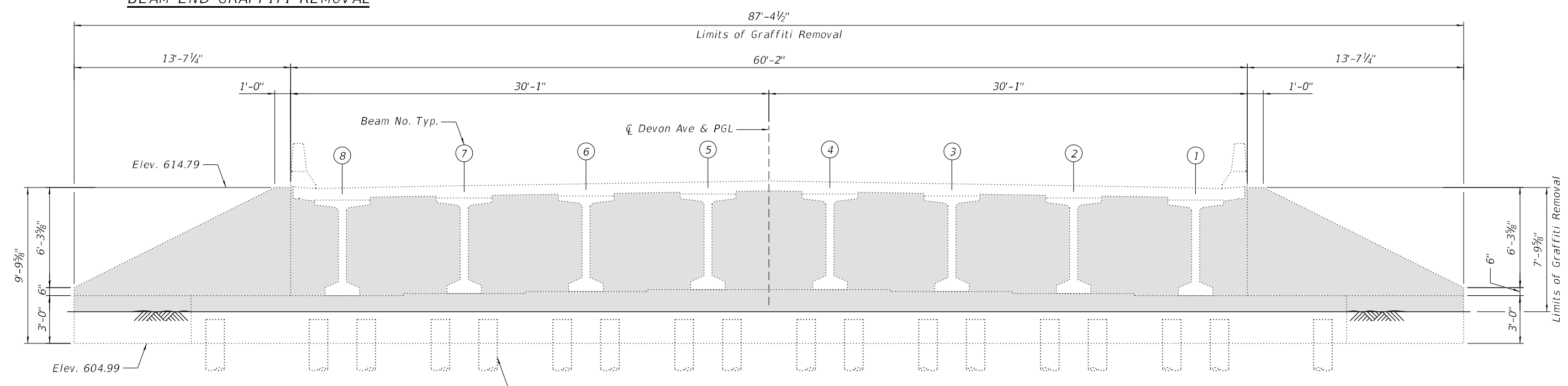
**BEAM END GRAFFITI REMOVAL**

**BILL OF MATERIAL**

ITEM	UNIT	TOTAL
Graffiti Removal	Sq. Yd.	1,921

**LEGEND**

	Graffiti Removal
--	------------------



**WEST ABUTMENT**  
 (Looking West)

**NOTES:**  
 1. Graffiti Removal shall be performed on exposed faces of all beam ends within 35 ft of abutment on both sides of bridge.

**AEG ATLAS ENGINEERING GROUP, LTD.**

USER NAME =	DESIGNED - SPB	REVISED -
CHECKED - SPB	REVISIONS -	
PLOT SCALE =	DRAWN - KB	REVISED -
PLOT DATE =	CHECKED - 04/15/2024	REVISED -

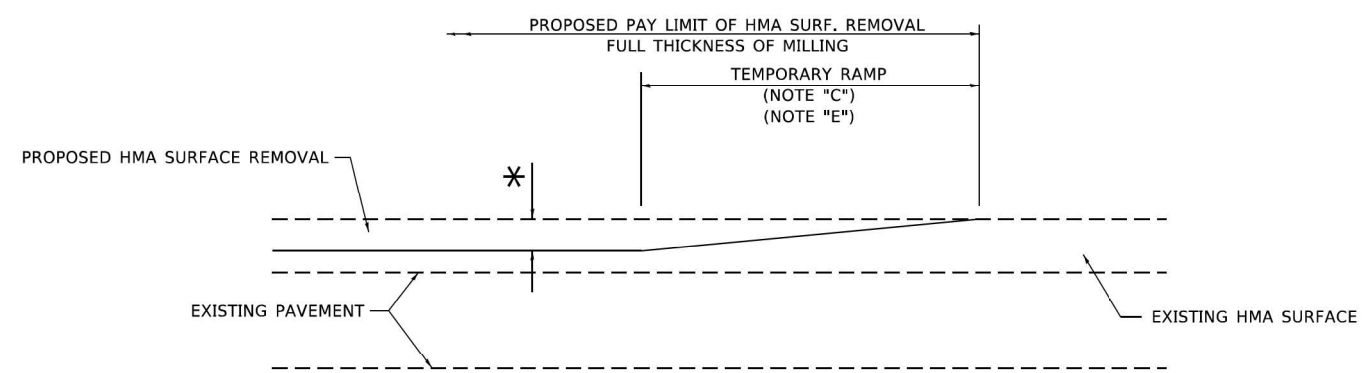
**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**SUBSTRUCTURE REPAIRS  
 STRUCTURE NO. 016-2597**

SHEET S-8 OF S-8 SHEETS

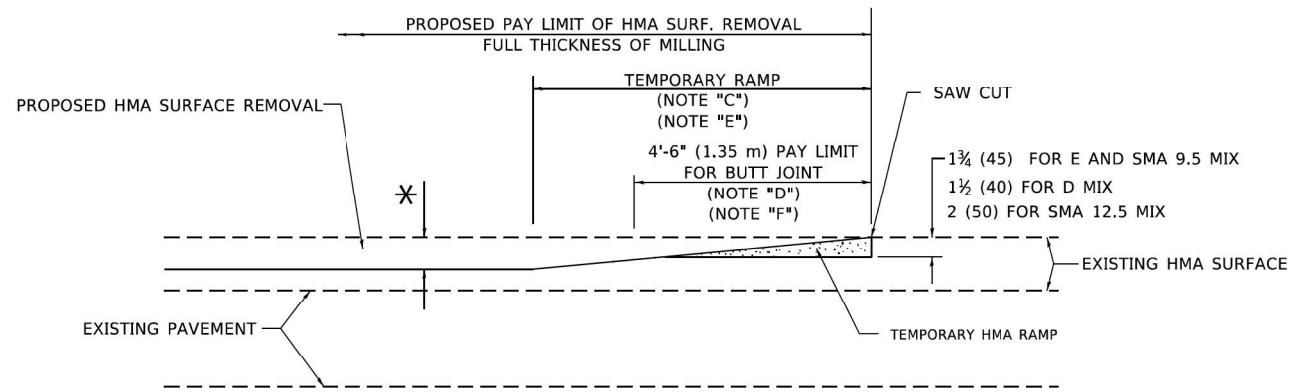
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1349	FAU 1349 22 BJ	COOK	27	23

CONTRACT NO. 62T38  
 ILLINOIS FED. AID PROJECT



**MILLED TEMPORARY RAMP**  
(FOR BUTT JOINT AND HMA TAPER SEE DETAIL BELOW)

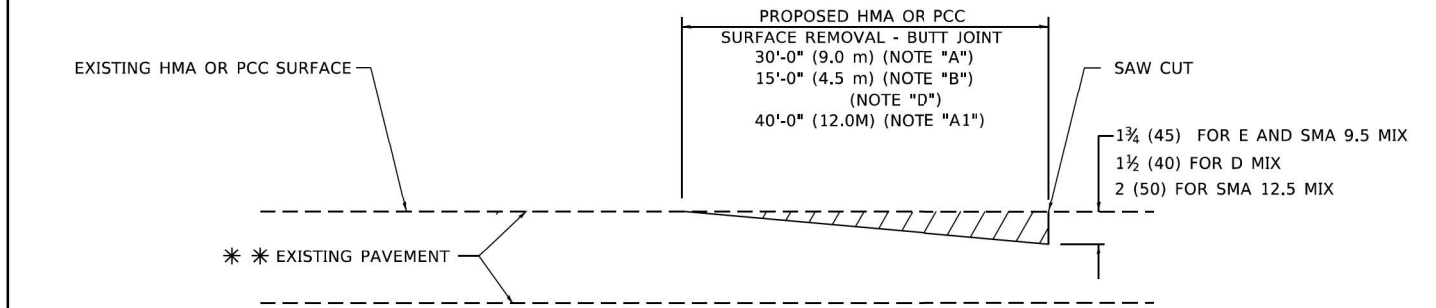
**OPTION 1**



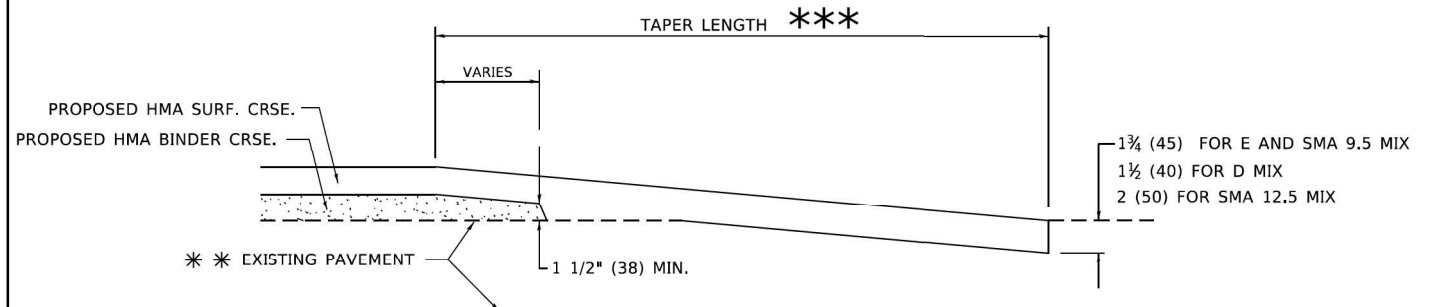
**HMA CONSTRUCTED TEMPORARY RAMP**  
(FOR BUTT JOINT AND HMA TAPER SEE DETAIL BELOW)

**OPTION 2**

**TYPICAL TEMPORARY RAMP**



**BUTT JOINT DETAIL**



**HMA TAPER DETAIL**

**TYPICAL BUTT JOINT AND HMA TAPER FOR RESURFACING ONLY**

\*\* PC CONCRETE, HMA OR HMA RESURFACED PAVEMENT.

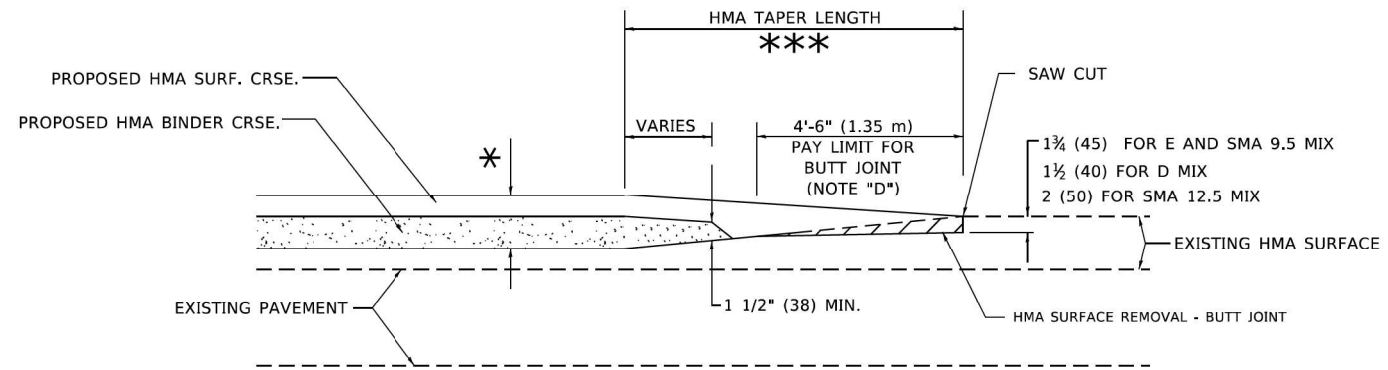
**GENERAL NOTES**

- A. MAINLINE ARTERIAL ROADWAYS AND MAJOR SIDE ROADS.
- A1. INTERSTATES
- B. MINOR SIDE ROADS.
- C. THE TEMP. RAMP SHALL BE CONSTRUCTED IMMEDIATELY UPON REMOVAL OF THE EXISTING HMA SURFACE.
- D. THE BUTT JOINT SHALL BE CONSTRUCTED IMMEDIATELY PRIOR TO PLACING THE PROPOSED HMA COURSES.
- E. TAPER THE TEMP. RAMP AT A RATE OF 3' - 4" (1.02m) PER 1 INCH (25 mm) OF MILLING THICKNESS.  
\* SEE TYPICAL SECTIONS FOR MILLING THICKNESS.
- F. SEE ARTICLE 406.08 AND 406.14 OF THE STANDARD SPECIFICATIONS FOR "HMA AND/OR PCC SURFACE REMOVAL, BUTT JOINT".  
\*\*\* 20'-0" (6.1 m) PER 1 (25) RESURFACING (NOTE "A")  
10'-0" (3.0 m) PER 1 (25) RESURFACING (NOTE "B")

**BASIS OF PAYMENT**

- 1. THE BUTT JOINT WILL BE PAID FOR AT THE CONTRACT UNIT PRICE PER SQUARE YARD (SQUARE METER) FOR "HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT" OR FOR "PORTLAND CEMENT CONCRETE SURFACE REMOVAL- BUTT JOINT".
- 2. THE TEMPORARY RAMP AND SAW CUT SHALL BE INCLUDED IN THE UNIT COST FOR HMA OR PCC SURFACE REMOVAL-BUTT JOINT.

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



**BUTT JOINT AND HMA TAPER**

**TYPICAL BUTT JOINT AND HMA TAPER FOR MILLING AND RESURFACING**

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	DRAWN -	REVISED - M. GOMEZ 04-06-01
PLOT SCALE = 100.0000' / in.	CHECKED -	REVISED - R. BORO 01-01-07
PLOT DATE = 11/18/2022	DATE - 06-13-90	REVISED - K. SMITH 11-18-22

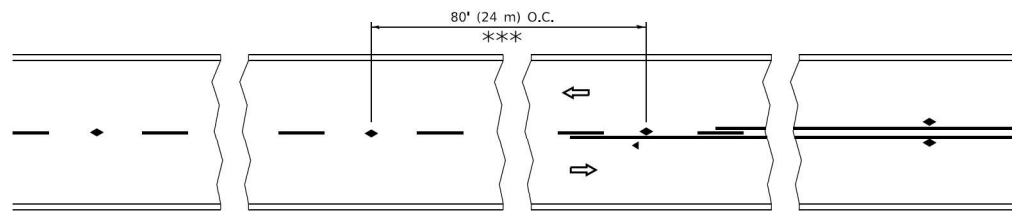
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

SCALE: NONE		SHEET 1 OF 1 SHEETS		STA. TO STA.	
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**BUTT JOINT AND HMA TAPER DETAILS**

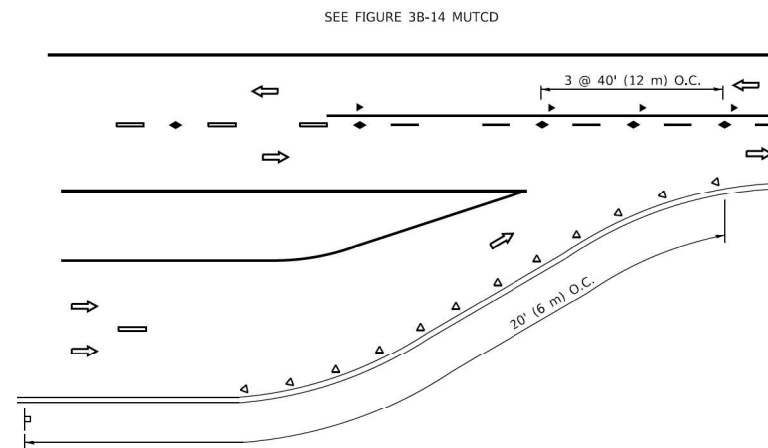
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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BD400-05 BD-32		CONTRACT NO. 62T38		
ILLINOIS FED. AID PROJECT				



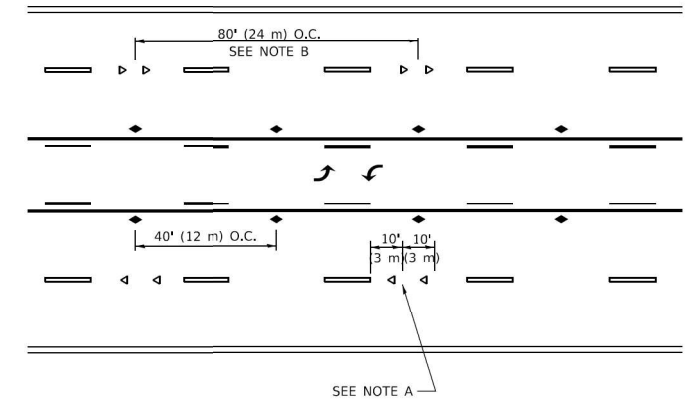


\*\*\* REDUCE TO 40' (12 m) O.C. ON CURVES WITH POSTED OR ADVISORY SPEED 45 M.P.H. (70 km/h) OR LESS.

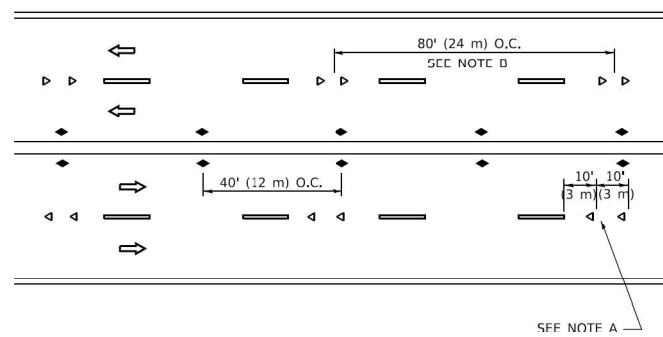
**TWO-LANE/TWO-WAY**



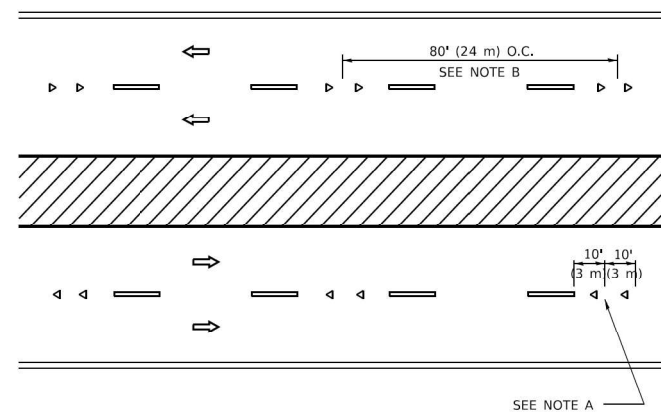
**LANE REDUCTION TRANSITION**



**TWO-WAY LEFT TURN**



**MULTI-LANE/UNDIVIDED**



**MULTI-LANE/DIVIDED**

**GENERAL NOTES**

1. MARKERS USED WITH DASHED LINES SHALL BE CENTERED IN THE GAP BETWEEN SEGMENTS.
2. MARKERS USED ADJACENT TO SOLID LINES SHALL BE OFFSET 2 TO 3 (50 TO 75) TOWARD TRAFFIC AS SHOWN.
3. MARKERS THROUGH TANGENTS LESS THAN 500' (150 m) IN LENGTH BETWEEN CURVES SHALL BE INSTALLED AT THE LESSER OF THE TWO CURVE SPACINGS.
4. MARKERS ARE TO BE USED ADJACENT TO BOTH SOLID WHITE LINES IN DUAL LEFT TURN LANES

**SYMBOLS**

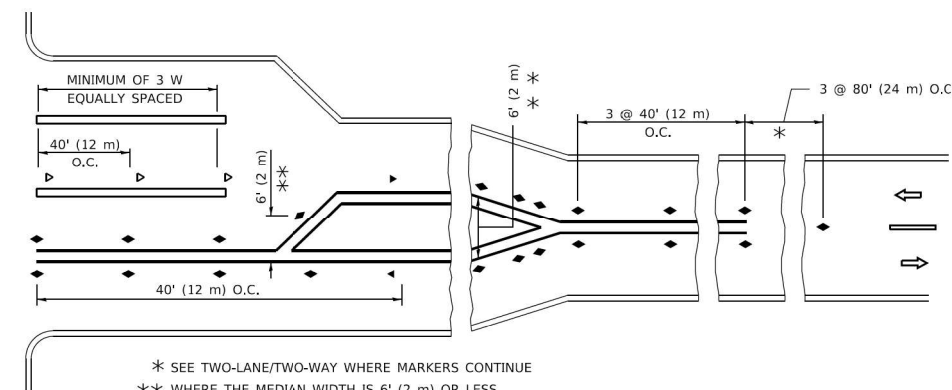
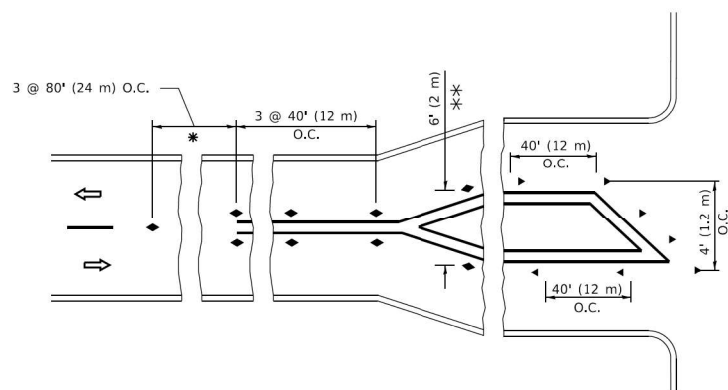
- YELLOW STRIPE
- WHITE STRIPE
- ◀ ONE-WAY AMBER MARKER
- ◀ ONE-WAY CRYSTAL MARKER (W/O)
- ◆ TWO-WAY AMBER MARKER

**LANE MARKER NOTES**

- A. USE DOUBLE LANE LINE MARKERS SPACED AS SHOWN.
- B. REDUCE TO 40' (12 m) O.C. ON CURVES WHERE ADVISORY SPEEDS ARE 10 M.P.H (20 km/h) LOWER THAN POSTED SPEEDS.

**DESIGN NOTES**

1. DOUBLE LANE LINE MARKERS SHALL BE USED UNLESS SPECIFIED OTHERWISE.
2. EXCEPT AS SHOWN ON THE LANE REDUCTION TRANSITION AND FREEWAY EXIT RAMP DETAIL, MARKERS ARE NOT TO BE SPECIFIED ON RIGHT EDGE LINES.
3. THE EXACT MARKER LIMITS, SPACING, AND COLOR SHALL BE INCLUDED IN THE PLANS WHEN STANDARD SPECIFICATIONS ARE NOT BEING USED.
4. MARKERS SHOULD NOT BE USED ALONGSIDE CURBS EXCEPT FOR EXTREMELY SHORT SECTIONS OF CURBS WHERE NOT MORE THAN TWO MARKERS WOULD BE INVOLVED.



**TURN LANES**

\* SEE TWO-LANE/TWO-WAY WHERE MARKERS CONTINUE  
 \*\* WHERE THE MEDIAN WIDTH IS 6' (2 m) OR LESS USE TWO-WAY MARKERS.

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

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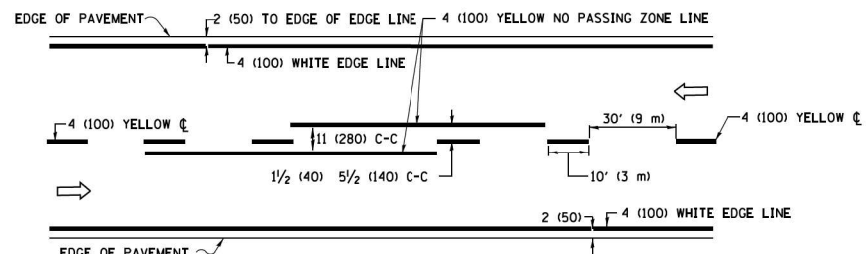
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	DRAWN -	REVISED - T. RAMMACHER 01-06-00
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PLOT DATE = 3/4/2019	DATE -	REVISED - C. JUCIUS 07-01-13

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

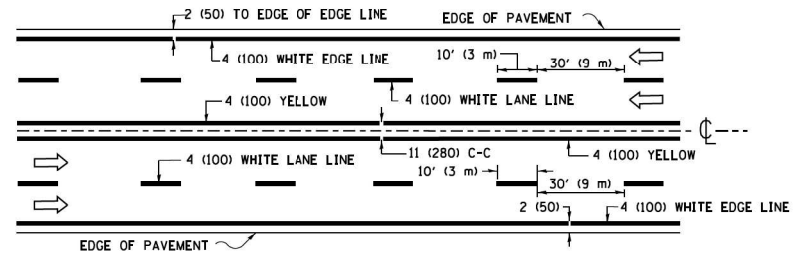
**TYPICAL APPLICATIONS  
 RAISED REFLECTIVE PAVEMENT MARKERS (SNOW-PLOW RESISTANT)**

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

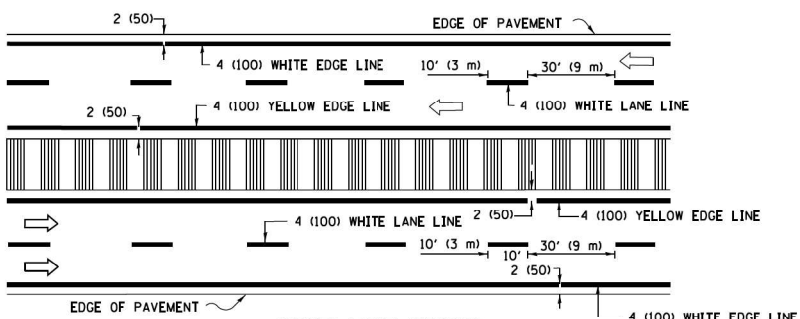
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1349	FAU 1349 22 BJ	COOK	27	25
TC-11		CONTRACT NO. 62T38		
ILLINOIS		FED. AID PROJECT		



**2-LANE ROADWAY**

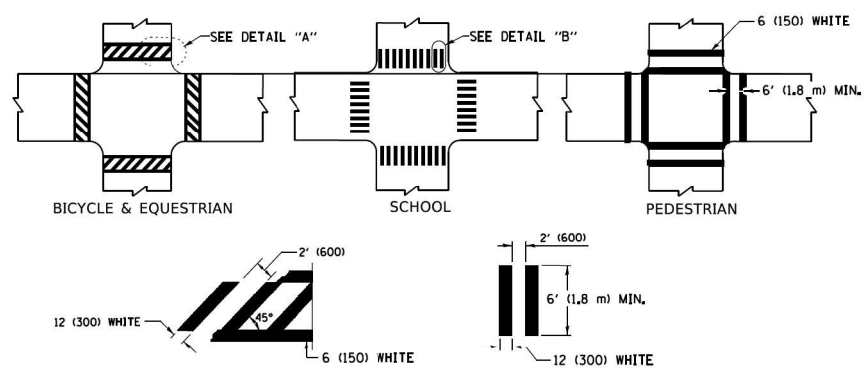


**MULTI-LANE UNDIVIDED**



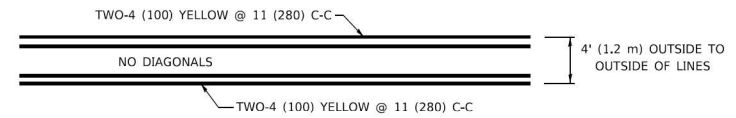
**MULTI-LANE DIVIDED WITH MEDIAN**

**TYPICAL LANE AND EDGE LINE MARKING**

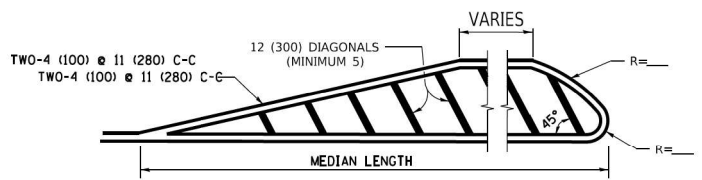


**TYPICAL CROSSWALK MARKING**

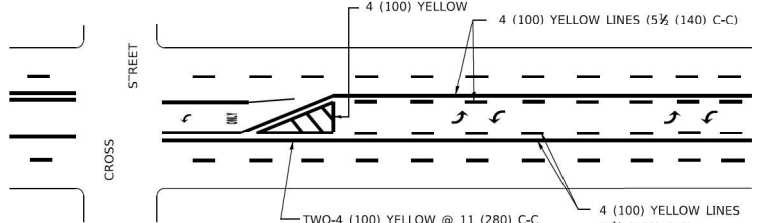
\* MARKINGS SHALL BE INSTALLED PARALLEL TO THE CENTERLINE OF THE ROAD WHICH IT CROSSES



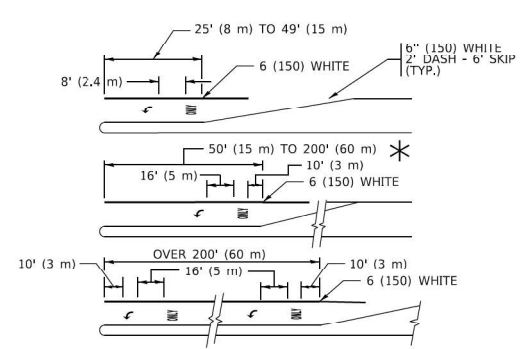
**4' (1.2 m) WIDE MEDIANS ONLY**



**MEDIANS OVER 4' (1.2 m) WIDE**



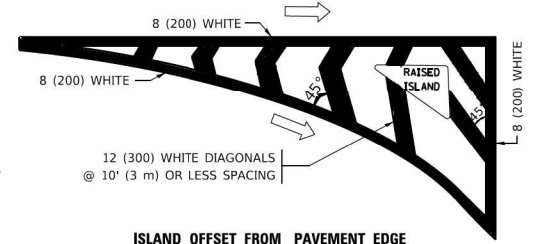
**MEDIAN WITH TWO-WAY LEFT TURN LANE TYPICAL PAINTED MEDIAN MARKING**



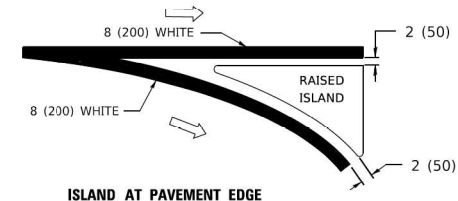
**TYPICAL LEFT (OR RIGHT) TURN LANE**

**TYPICAL TURN LANE MARKING**

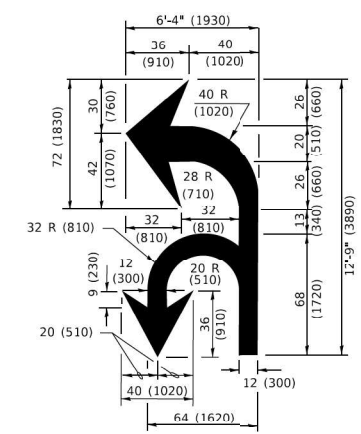
FULL SIZE LETTERS 8' (2.4 m) AND ARROWS SHALL BE USED.  
 AREA = 15.6 SQ. FT. (1.5 m<sup>2</sup>) ONLY AREA = 20.8 SQ. FT. (1.9 m<sup>2</sup>)  
 \* TURN LANES IN EXCESS OF 400' (120 m) IN LENGTH MAY HAVE AN ADDITIONAL SET OF ARROW - "ONLY" INSTALLED MIDWAY BETWEEN THE OTHER TWO SETS OF ARROW - "ONLY".



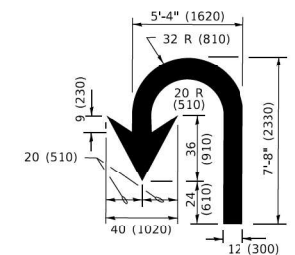
**ISLAND OFFSET FROM PAVEMENT EDGE**



**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	7 @ 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 (30 MPH (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" 15' 6" (1.8 m) LETTERS; 16 (400) LINE FOR "X"	SOLID	WHITE	SEE STATE STANDARD 780001 AREA OF: *R*=3.6 SQ. FT. (0.33 m <sup>2</sup> ) EACH *X*=54.0 SQ. FT. (5.0 m <sup>2</sup> )
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.

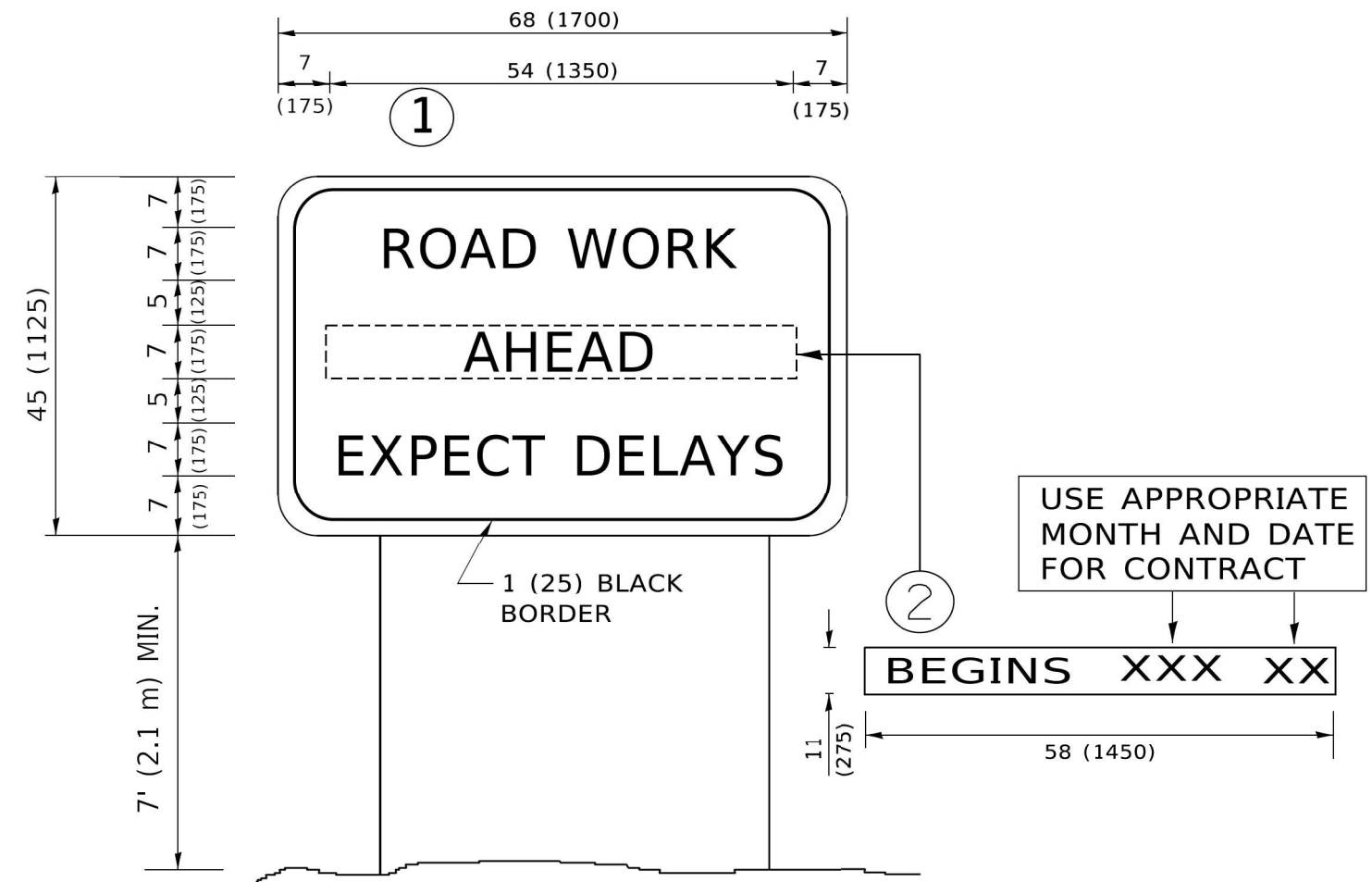
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USER NAME	DESIGNED	REVISED
= footemj	- EVERS	- C. JUCIUS 09-09-09
	- DRAWN	- C. JUCIUS 07-01-13
	- CHECKED	- C. JUCIUS 12-21-15
	- DATE	- C. JUCIUS 04-12-16

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

DISTRICT ONE	
<b>TYPICAL PAVEMENT MARKINGS</b>	
SCALE: NONE	SHEET 1 OF 2 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1349	FAU 1349 22 BJ	COOK	27	26
<b>TC-13</b>			CONTRACT NO. 62T38	
ILLINOIS		FED. AID PROJECT		



**NOTES:**

1. USE BLACK LETTERING ON ORANGE BACKGROUND.
2. ERECT SIGNS IN ADVANCE OF THE LOCATION FOR THE "ROAD CONSTRUCTION AHEAD" SIGN AT LOCATIONS AS DIRECTED BY THE ENGINEER.
3. ERECT SIGN ① WITH INSTALLED PANEL ② ONE WEEK PRIOR TO THE START OF CONSTRUCTION.
4. REMOVE PANEL ② SOON AFTER THE START OF CONSTRUCTION.
5. SEE SPECIAL PROVISION FOR "TEMPORARY INFORMATION SIGNING" FOR ADDITIONAL INFORMATION.
6. ONE SIGN ASSEMBLY EQUALS 25.70 SQ. FT. (2.3 SQ. M.)
7. SHALL BE PAID FOR AS TEMPORARY INFORMATION SIGNING.

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

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USER NAME = footemj	DESIGNED -	REVISED - R. MIRS 09-15-97
	DRAWN -	REVISED - R. MIRS 12-11-97
PLOT SCALE = 50.0000' / in.	CHECKED -	REVISED - T. RAMMACHER 02-02-99
PLOT DATE = 3/4/2019	DATE -	REVISED - C. JUCIUS 01-31-07

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**ARTERIAL ROAD  
INFORMATION SIGN**

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

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1349	FAU 1349 22 BJ	COOK	27	27
<b>TC-22</b>			CONTRACT NO. 62T38	
ILLINOIS FED. AID PROJECT				