

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
840	(123BR-1)BRR	IROQUOIS	9	1
		ILLINOIS	CONTRACT NO. 66N54	

**INDEX OF SHEETS**

1. COVER SHEET
2. GENERAL NOTES
3. SUMMARY OF QUANTITIES
4. TYPICAL SECTION
5. GENERAL PLAN AND ELEVATION, FOR STRUCTURE NO. 038-0174
5. REMOVAL DETAILS FOR STRUCTURE NO. 038-0174
7. RIPRAP DETAILS FOR STRUCTURE NO. 038-0174
8. MISCELLANEOUS REPAIRS FOR STRUCTURE NO. 038-0174
9. TEMPORARY INFORMATION SIGNING

**HIGHWAY STANDARDS**

000001-08	STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS
001006	DECIMAL OF AN INCH AND OF A FOOT
701001-02	OFF-ROAD OPERATIONS 2L, 2W, MORE THAN 15' AWAY
701006 05	OFF ROAD OPERATIONS 2L, 2W, 15' TO 24" FROM PAVEMENT EDGE
701201-05	LANE CLOSURE, 2L, 2W, DAY ONLY, FOR SPEEDS ≥ 45 MPH
701301-04	LANE CLOSURE, 2L, 2W, SHORT TIME OPERATIONS
701901-09	TRAFFIC CONTROL DEVICES

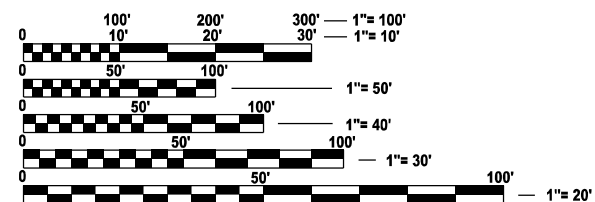
**PROPOSED  
HIGHWAY PLANS**

**F.A.P. ROUTE 840 (IL 49)  
SECTION (123BR-1)SLP  
SLOPE REPAIR/EROSION CONTROL  
IROQUOIS COUNTY**

C-93-090-23

**PROJECT LOCATION**

**STRUCTURE NO. 038-0174  
CARRYING F.A.P. ROUTE 840 (IL 49)  
OVER PIGEON CREEK  
APPROXIMATELY 4.4 MILES NORTH OF  
IL ROUTE 9 IN IROQUOIS COUNTY**



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

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

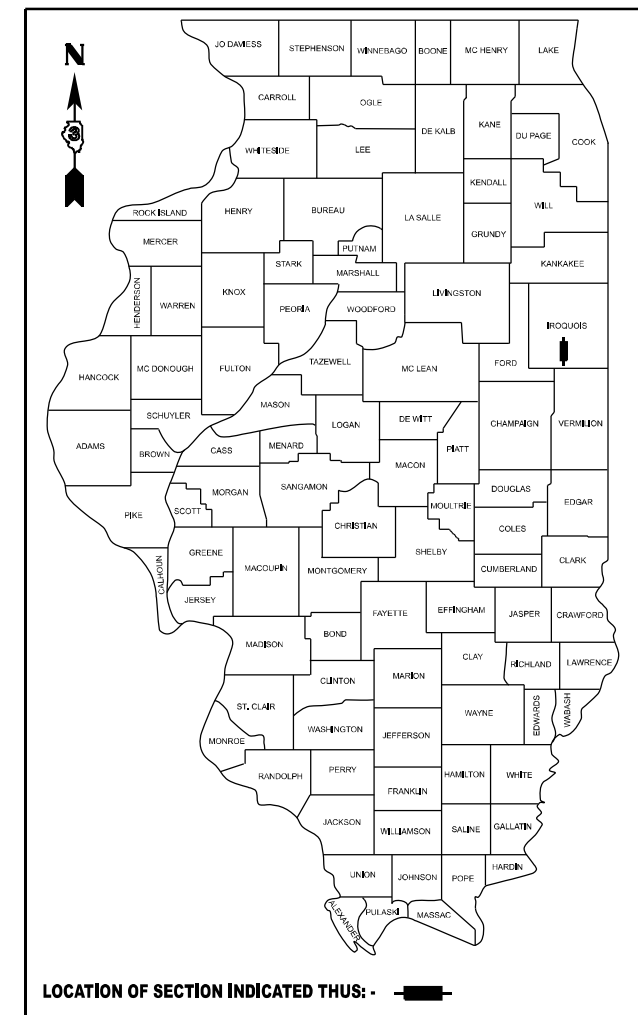
**PROJECT ENGINEER: YOGESH PATEL  
UNIT CHIEF: RON WOODSHANK  
DISTRICT NO. 3 (815) 434-6131  
CONTRACT NO. 66N54**



VERMILION COUNTY

MAP NOT TO SCALE

POINT LOCATION



LOCATION OF SECTION INDICATED THUS: - [black rectangle] -

**FUNCTIONAL CLASSIFICATION**

**RURAL - MINOR ARTERIAL**

**F.A.P. ROUTE 840 (IL 49)**

**2021 ADT = 1050**

**P.V. 74.3 % S.U. 9 % M.U. 17.1 %**

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

SUBMITTED February 06, 2024

*Stephen M. Francis* REGIONAL ENGINEER

March 22, 2024 *Scott A. Elk*

ENGINEER OF DESIGN AND ENVIRONMENT

March 22, 2024 *Stephen M. Francis*

DIRECTOR OF HIGHWAYS PROJECT IMPLEMENTATION

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



CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE
				CONTRACT MAINTENANCE 100% STATE BRIDGE 0047 S.N. 038-0174
20300100	CHANNEL EXCAVATION	CU YD	51	51
28100107	STONE RIPRAP, CLASS A4	SQ YD	656	656
28200200	FILTER FABRIC	SQ YD	656	656
50104650	SLOPE WALL REMOVAL	SQ YD	656	656
67100100	MOBILIZATION	L SUM	1	1
70100450	TRAFFIC CONTROL AND PROTECTION, STANDARD 701201	L SUM	1	1
X2010512	CLEARING AND GRUBBING	SQ YD	152	152
X1200201	STRIP SEAL GLAND REPLACEMENT	FOOT	82	82
Z0012754	STRUCTURAL REPAIR OF CONCRETE (DEPTH EQUAL TO OR LESS THAN 5 INCHES)	SQ FT	36	36
Z0030850	TEMPORARY INFORMATION SIGNING	SQ FT	42	42

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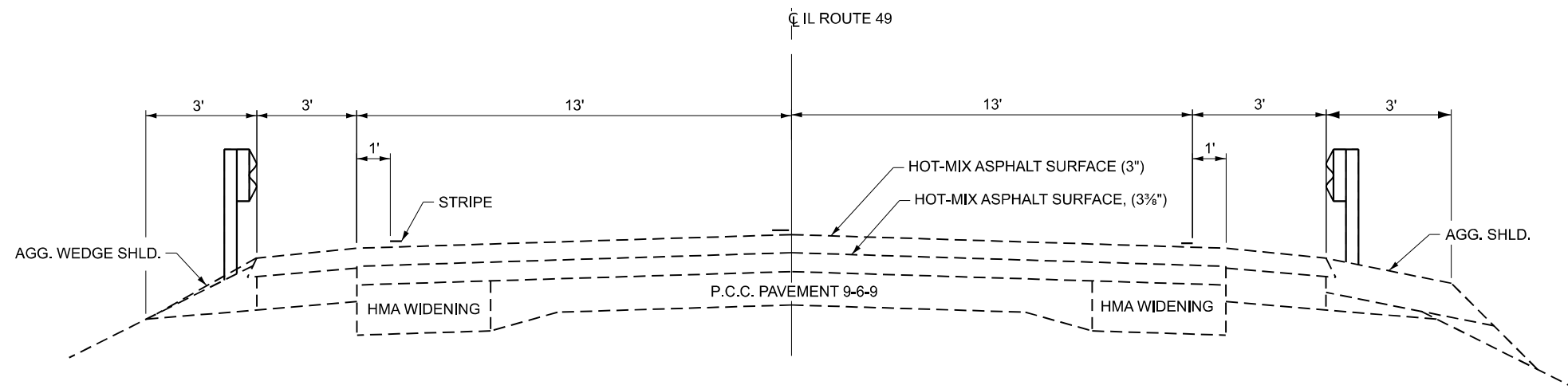
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DRAWN - RW	CHECKED - YP	REVISED -
PLOT SCALE = 100,000' / 1in.	DATE - 7/17/2023	REVISED -
PLOT DATE = 1/12/2024		

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**SUMMARY OF QUANTITIES**

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
840	(123BR-1)BRR	IROQUOIS	9	3
			CONTRACT NO. 66N54	
		ILLINOIS	FED. AID PROJECT	



**TYPICAL SECTION**

STA. 134+15 TO STA. 135+27.87  
 BRIDGE OMISSION STA. 135+27.87 TO STA. 136+20.13  
 STA. 136+20.13 TO STA. 136+85

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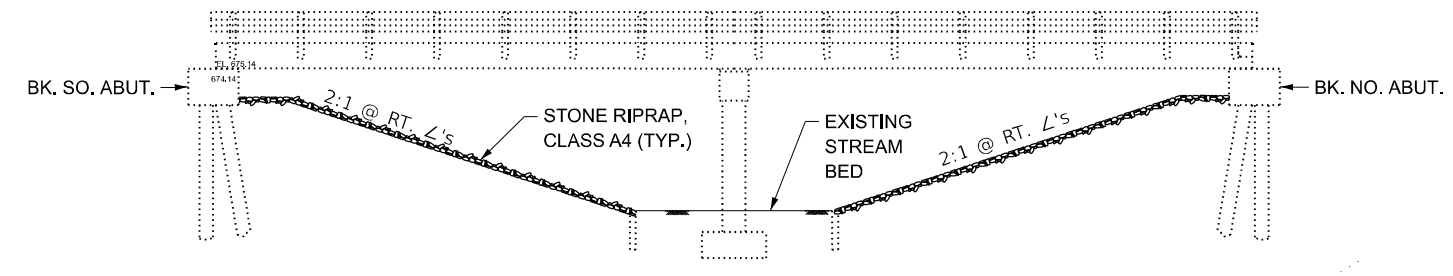
**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

<b>TYPICAL SECTION</b>	
SCALE:	SHEET 1 OF 1 SHEETS STA. TO STA.

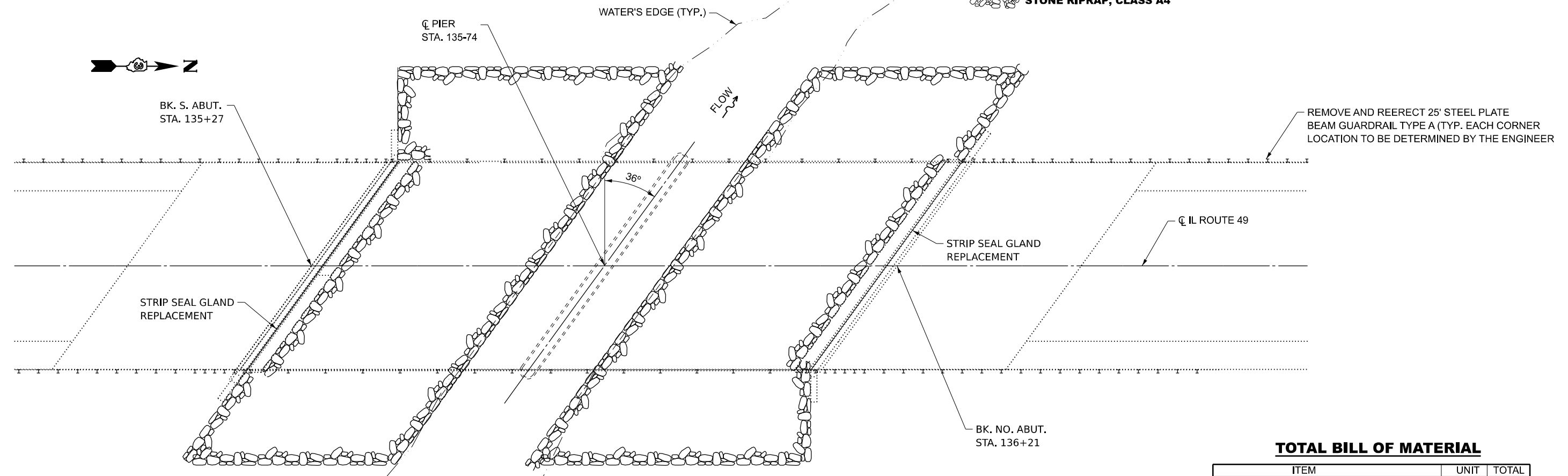
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
840	(123BR-1)BRR	IROQUOIS	9	4
			CONTRACT NO. 66N54	
		ILLINOIS	FED. AID PROJECT	

### SCOPE OF WORK

1. REMOVE EXISTING CONCRETE SLOPEWALLS
2. PERFORM CHANNEL EXCAVATION
3. REFORM CLEARING AND GRUBBING GRADE AND SHAPE EXISTING SLOPE(S)
4. INSTALL FILTER FABRIC, BEDDING AND RIPRAP
5. PERFORM PIER REPAIRS
6. REPLACE EXPANSION JOINT SEAL GLAND
7. REMOVE AND REERECT STEEL PLATE BEAM GUARDRAIL, TYPE A



**ELEVATION**



**PLAN**  
**STRUCTURE NO. 038-0174**  
**IL ROUTE 49 OVER PIGEON CREEK**  
**STA. 135+74.00**

**TOTAL BILL OF MATERIAL**

ITEM	UNIT	TOTAL
CHANNEL EXCAVATION	CU. YD.	51
CLEARING AND GRUBBING	SQ. YD.	152
SLOPE WALL REMOVAL	SQ. YD.	442
STRIP SEAL GLAND REPLACEMENT	FOOT	82
STRUCTURAL REPAIR OF CONCRETE DEPTH EQUAL TO OR LESS THAN 5"	SQ. FT.	36
FILTER FABRIC	SQ. YD.	464
STONE RIPRAP, CLASS A4	SQ. YD.	464

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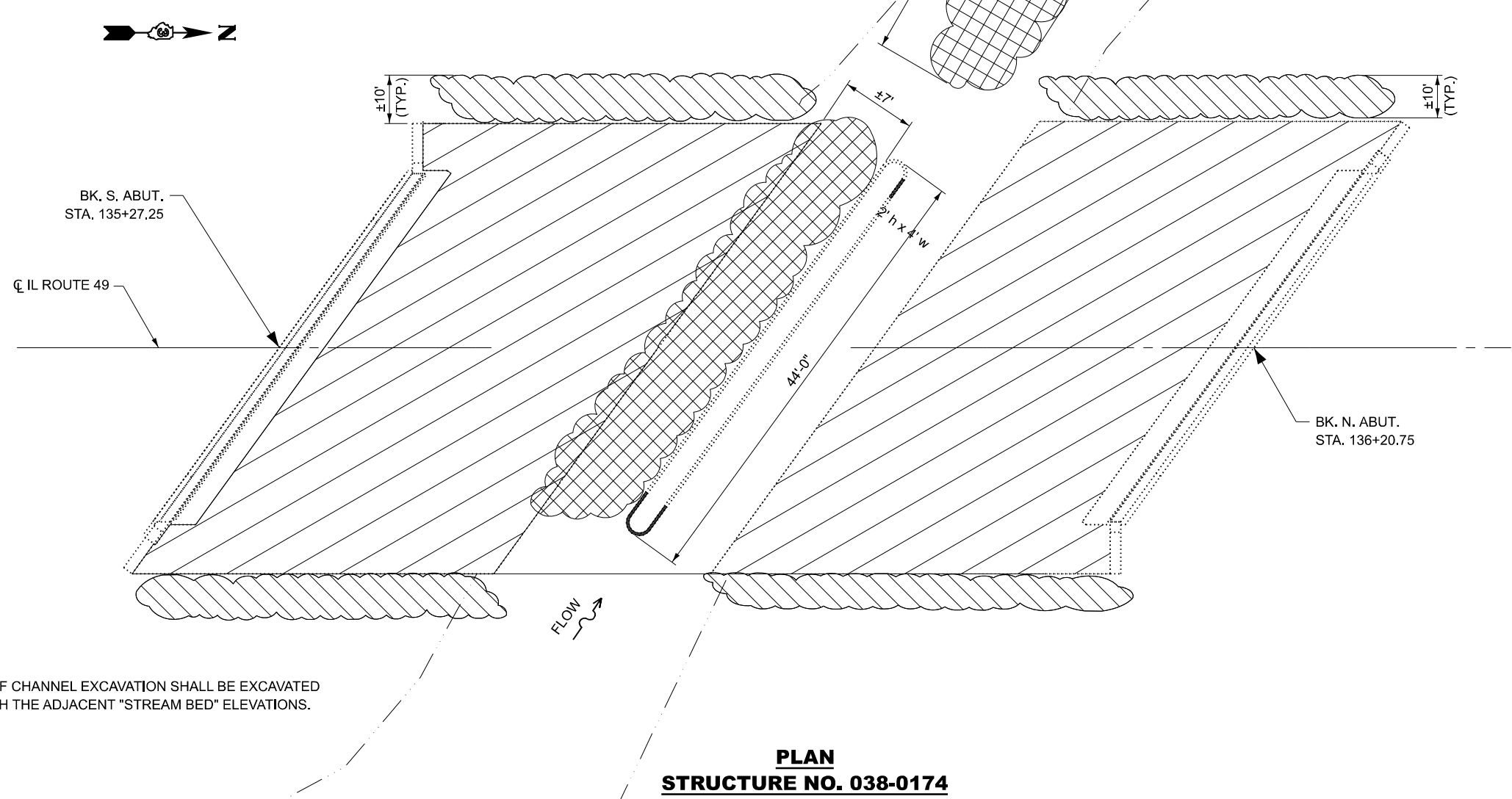
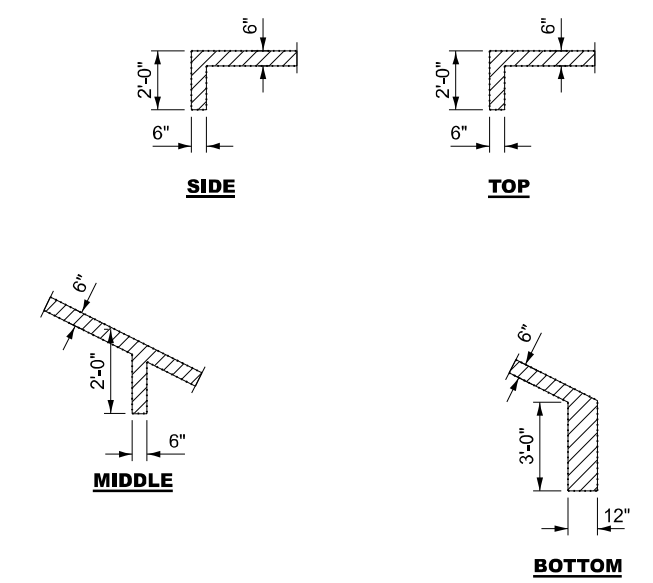
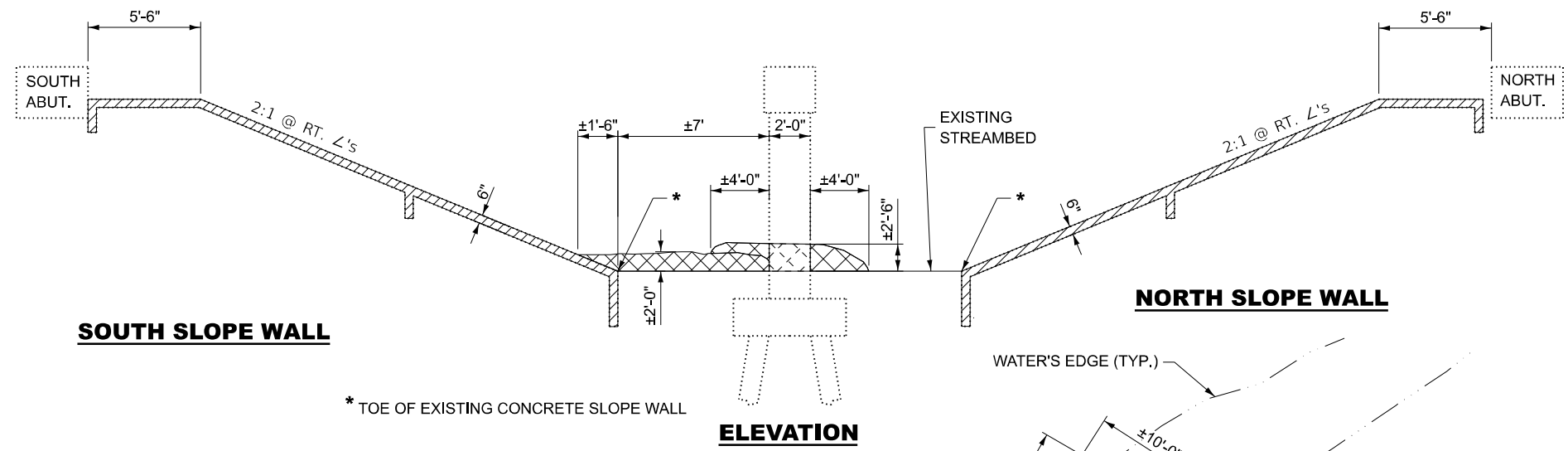
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PLOT DATE = 1/12/2024	DATE - 7/17/2023	REVISED -

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

**GENERAL PLAN AND ELEVATION**  
**FOR STRUCTURE NO. 038-0174**

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
840	(123BR-1)BRR	IROQUOIS	9	5
CONTRACT NO. 66N54				
ILLINOIS FED. AID PROJECT				



**FOOTING DETAILS**

- LEGEND**
- CHANNEL EXCAVATION
  - CLEARING (SPECIAL)
  - SLOPE WALL REMOVAL
  - STRUCTURAL REPAIR OF CONCRETE DEPTH EQUAL TO OR LESS THAN 5"

**BILL OF MATERIAL FOR NORTH SLOPE WALL**

ITEM	UNIT	TOTAL
CLEARING AND GRUBBING	SQ. YD.	76
SLOPE WALL REMOVAL	SQ. YD.	221

**BILL OF MATERIAL FOR SOUTH SLOPE WALL**

ITEM	UNIT	TOTAL
CHANNEL EXCAVATION	CU. YD.	42
CLEARING AND GRUBBING	SQ. YD.	76
SLOPE WALL REMOVAL	SQ. YD.	221

NOTE:  
AREAS OF CHANNEL EXCAVATION SHALL BE EXCAVATED TO MATCH THE ADJACENT "STREAM BED" ELEVATIONS.

**PLAN  
STRUCTURE NO. 038-0174**

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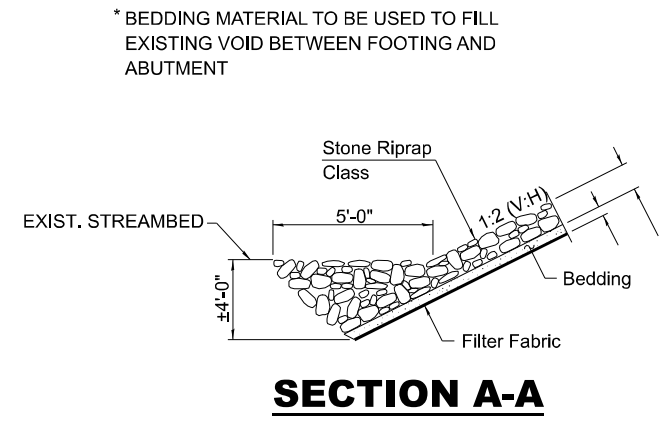
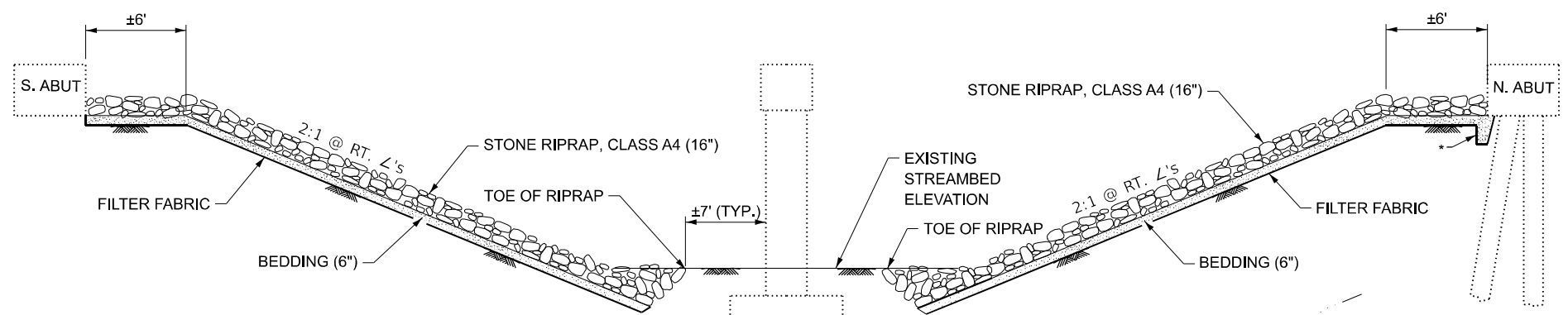
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**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

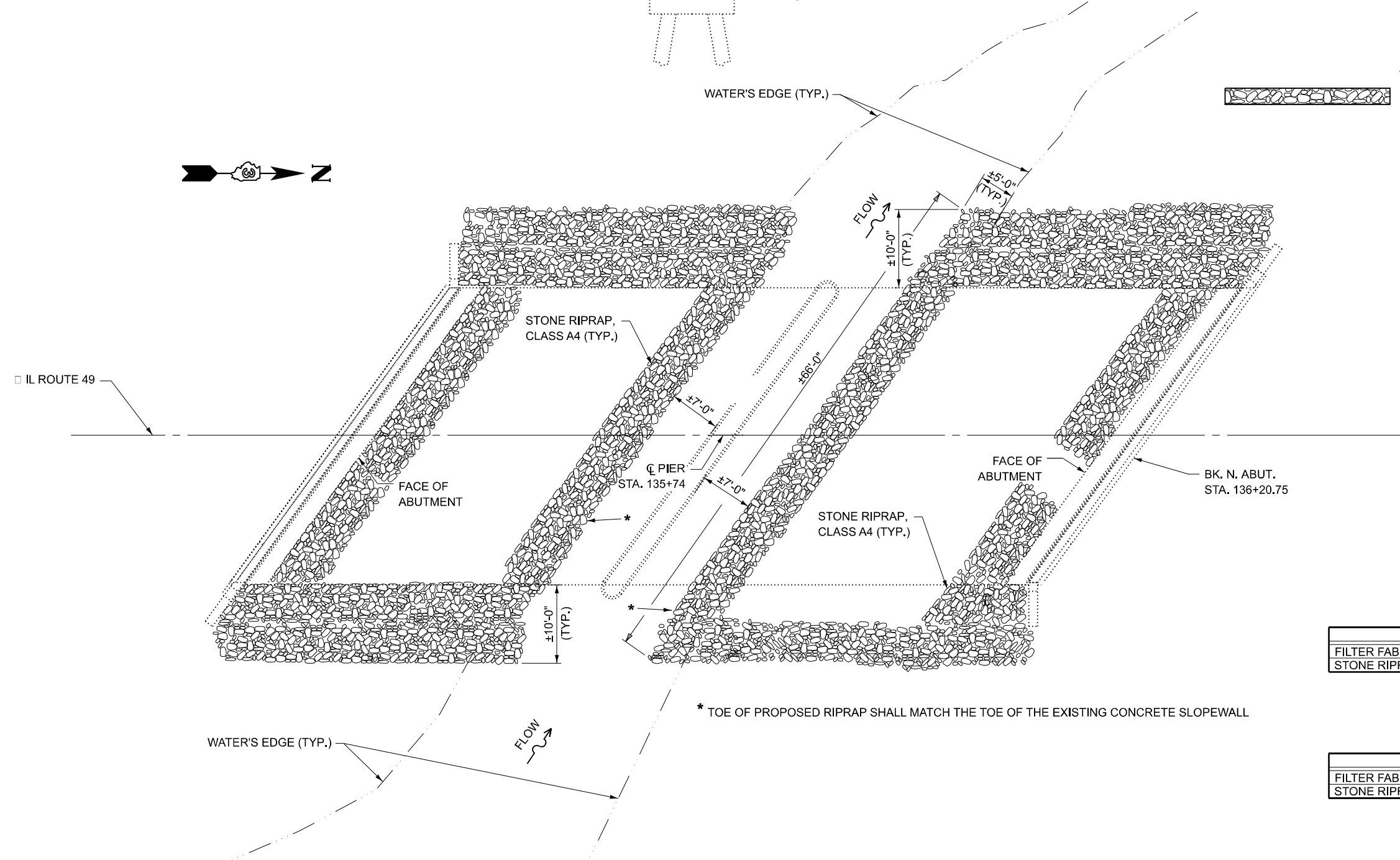
**REMOVAL DETAILS  
FOR STRUCTURE NO. 038-0174**

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
840	(123BR-1)BRR	IROQUOIS	9	6
			CONTRACT NO. 66N54	
ILLINOIS FED. AID PROJECT				



**LEGEND**



**BILL OF MATERIAL FOR ABUTMENT**

ITEM	UNIT	TOTAL
FILTER FABRIC	SQ. YD.	232
STONE RIPRAP, CLASS A4	SQ. YD.	232

**BILL OF MATERIAL FOR SOUTH ABUTMENT**

ITEM	UNIT	TOTAL
FILTER FABRIC	SQ. YD.	232
STONE RIPRAP, CLASS A4	SQ. YD.	232

\* TOE OF PROPOSED RIPRAP SHALL MATCH THE TOE OF THE EXISTING CONCRETE SLOPEWALL

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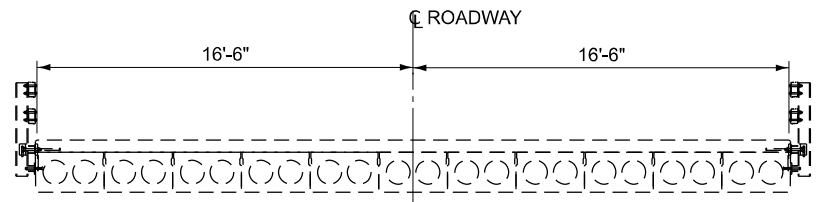
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**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**RIPRAP DETAILS  
FOR STRUCTURE NO. 038-0174**

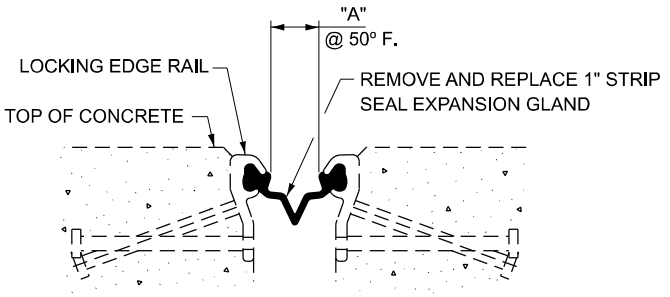
SCALE: SHEET 1 OF 1 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
840	(123BR-1)BRR	IROQUOIS	9	7
CONTRACT NO. 66N54				
ILLINOIS FED. AID PROJECT				



**EXISTING DECK CROSS SECTION**  
@ RT. 2's

REQUIRED STRIP SEAL RATED MOVEMENT	"A"
1"	1 1/8"
2"	1 3/4"



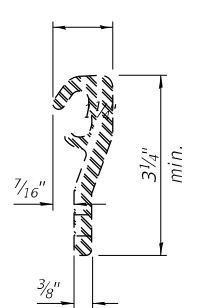
**EXISTING STRIP SEAL EXPANSION JOINT SHOWING ROLLED RAIL JOINT**

**NOTES:**

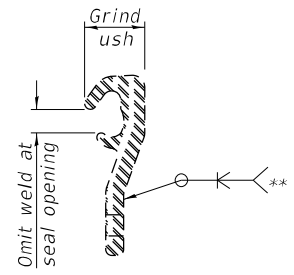
THE STRIP SEAL SHALL BE MADE CONTINUOUS AND SHALL HAVE A MINIMUM THICKNESS OF 1/4". THE CONFIGURATION OF THE STRIP SEAL SHALL MATCH THE CONFIGURATION OF THE LOCKING EDGE RAILS. OPEN OR "WEBBED" STRIP SEAL GLAND CONFIGURATIONS ARE NOT PERMITTED. THE GLAND SHALL BE SIZED FOR A MAXIMUM RATED MOVEMENT OF 4 INCHES.

THE LOCKING EDGE RAILS DEPICTED ARE CONFIGURED FOR TYPICAL APPLICATIONS AND ARE CONCEPTUAL ONLY. THE ACTUAL CONFIGURATION OF THE LOCKING EDGE RAILS AND MATCHING STRIP SEAL MAY VARY FROM MANUFACTURER TO MANUFACTURER PROVIDED THEY FIT THE APPLICATION AND MEET THE MINIMUM ANCHORAGE SHOWN. FLANGED EDGE RAILS, HOWEVER, WILL NOT BE ALLOWED. LOCKING EDGE RAILS MAY EXCEED THE 4 1/2" MAXIMUM DEPTH PROVIDED THE ANCHORAGE SYSTEM IS REVISED ACCORDING TO THE MANUFACTURER'S RECOMMENDATION.

THE MANUFACTURER'S RECOMMENDED INSTALLATION METHODS SHALL BE FOLLOWED.



**ROLLED (EXTRUDED) RAIL**



**LOCKING EDGE RAIL SPLICE**

**EXISTING LOCKING EDGE RAILS**

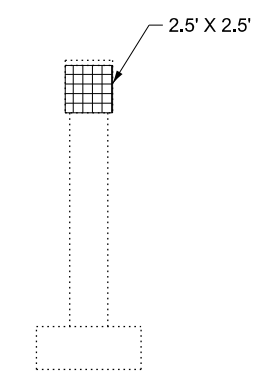
**EXISTING STRIP SEAL EXPANSION JOINT**

**BILL OF MATERIAL NORTH ABUTMENT**

ITEM	UNIT	TOTAL
STRIP SEAL GLAND REPLACEMENT	FOOT	41

**BILL OF MATERIAL SOUTH ABUTMENT**

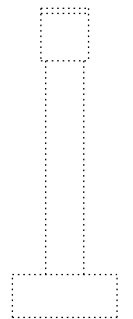
ITEM	UNIT	TOTAL
STRIP SEAL GLAND REPLACEMENT	FOOT	41



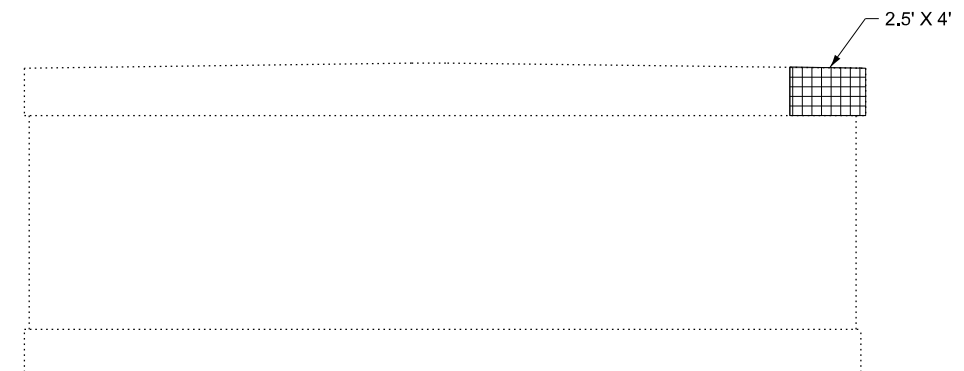
**EAST ELEVATION**



**PIER NORTH FACE**



**WEST ELEVATION**



**PIER SOUTH FACE**

**LEGEND**

STRUCTURAL REPAIR OF CONCRETE DEPTH EQUAL TO OR LESS THAN 5"

**BILL OF MATERIAL PIER**

ITEM	UNIT	TOTAL
STRUCTURAL REPAIR OF CONCRETE DEPTH EQUAL TO OR LESS THAN 5"	SQ FT	36

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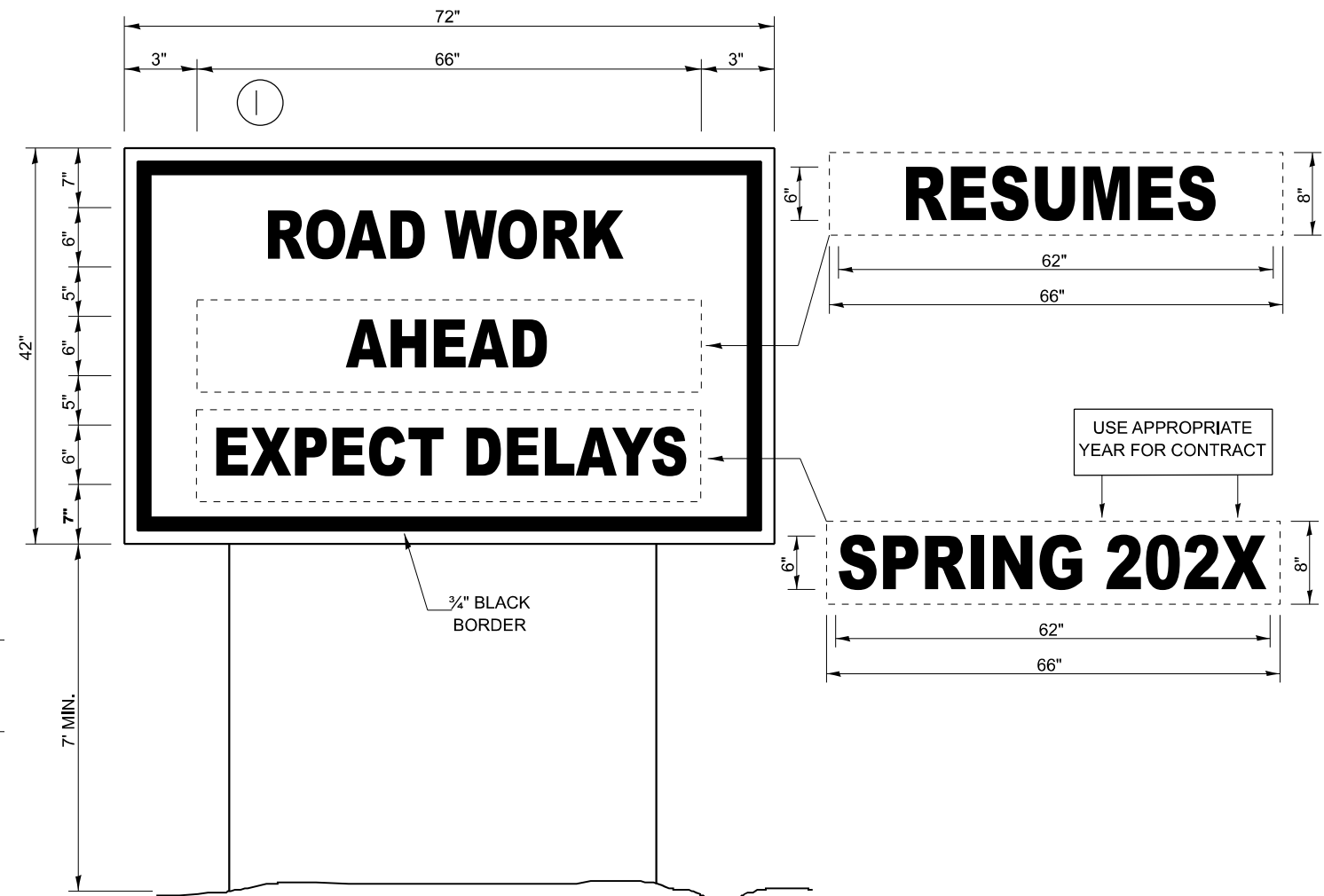
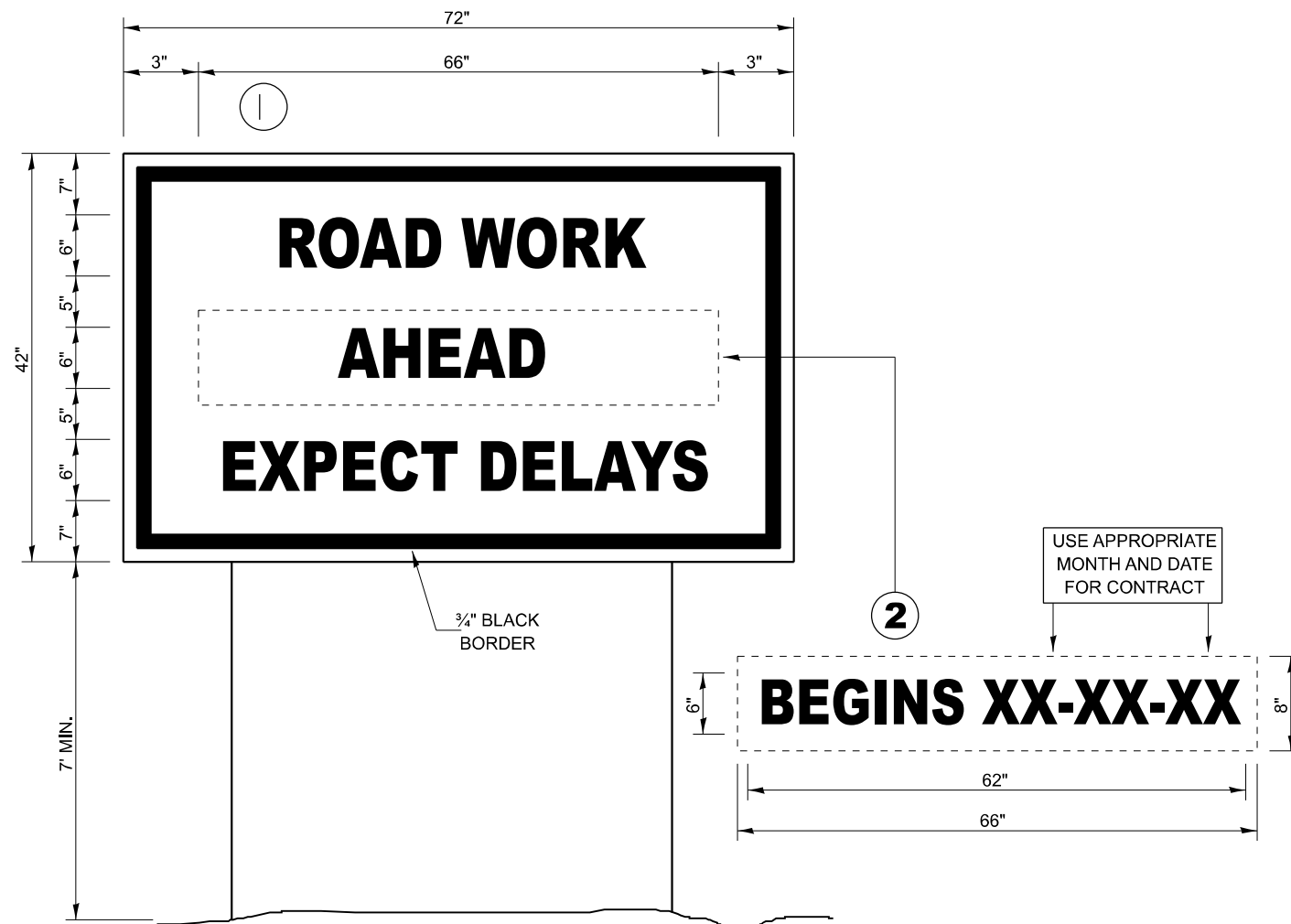
**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

**MISCELLANEOUS REPAIR DETAILS**  
**FOR STRUCTURE NO. 038-0174**

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
840	(123BR-1)BRR	IROQUOIS	9	8
CONTRACT NO. 66N54				
ILLINOIS FED. AID PROJECT				





## TEMPORARY INFORMATION SIGNING

## WINTER SHUT DOWN SIGNING

### NOTES:

1. USE 6" D BLACK LETTERING ON FLOURESENT ORANGE BACKGROUND.
2. ERECT SIGNS AT LOCATIONS IN ADVANCE OF THE "ROAD CONSTRUCTION AHEAD" SIGNS AS DIRECTED BY THE ENGINEER.
3. ERECT SIGN ① WITH INSTALLED PANEL ② A MINIMUM OF ONE WEEK PRIOR TO THE START OF THE LANE CLOSURE.
4. REMOVE PANEL ② ON THAT DATE.
5. SEE SPECIAL PROVISION "TEMPORARY INFORMATION SIGNING" FOR ADDITIONAL INFORMATION.
6. WILL BE PAID FOR PER SQ FT AS "TEMPORARY INFORMATION SIGNING". EACH SIGN = 21 SQ FT AND THE DATE PANEL ② WILL NOT BE MEASURED SEPARATELY FOR PAYMENT.

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DEPARTMENT OF TRANSPORTATION**

**TEMPORARY INFORMATION SIGNING**

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