

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
41	(15BR-2)BRR	LIVINGSTON	10	1
		ILLINOIS	CONTRACT NO. 66R62	

INDEX OF SHEETS

- 1. COVER SHEET
- 2. GENERAL NOTES
- 3. SUMMARY OF QUANTITIES
- 4. TYPICAL SECTION
- 5 - 10. STRUCTURE PLANS

HIGHWAY STANDARDS

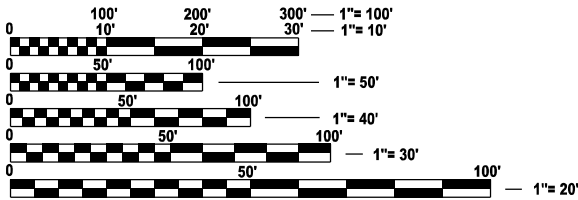
000001-08	STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS
001001-02	AREAS OF REINFORCEMENT BARS
001006	DECIMAL OF AN INCH AND OF A FOOT
701001-02	OFF-ROAD OPERATIONS 2L, 2W, MORE THAN 15' AWAY
701006-05	OFF-ROAD OPERATIONS 2L, 2W, 15' TO 24" FROM PAVEMENT EDGE
701201-05	LANE CLOSURE, 2L, 2W, DAY ONLY, FOR SPEEDS ≥ 45 MPH
701301-04	LANE CLOSURE, 2L, 2W, SHORT TIME OPERATIONS
701901-10	TRAFFIC CONTROL DEVICES

PROPOSED
HIGHWAY PLANS

F.A.P. ROUTE 41 (IL 17)
SECTION (15BR-2)BRR
BRIDGE REPAIRS
LIVINGSTON COUNTY

C-93-021-26

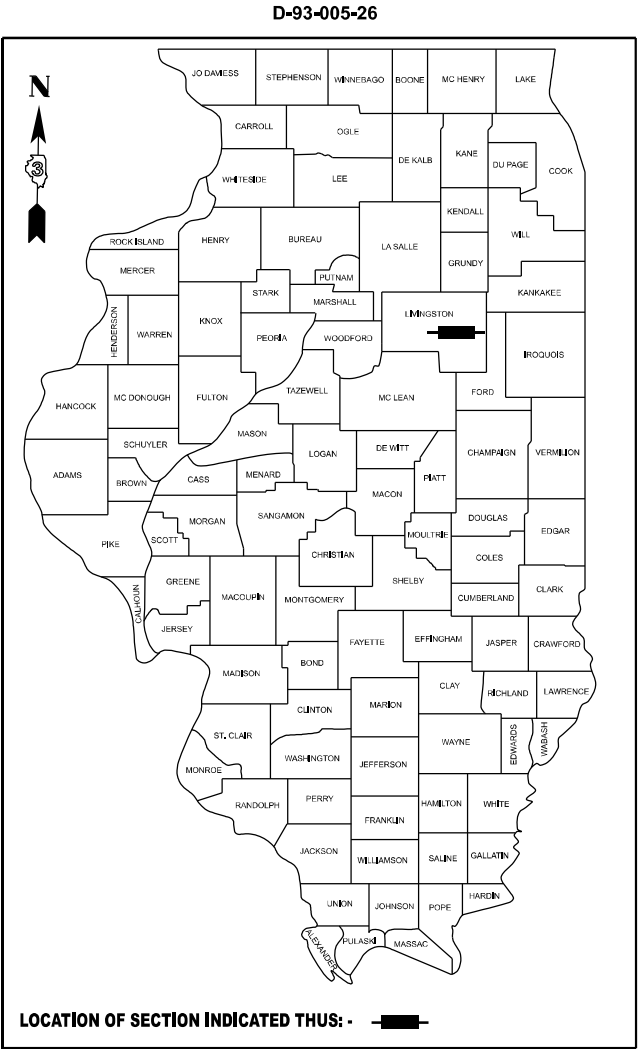
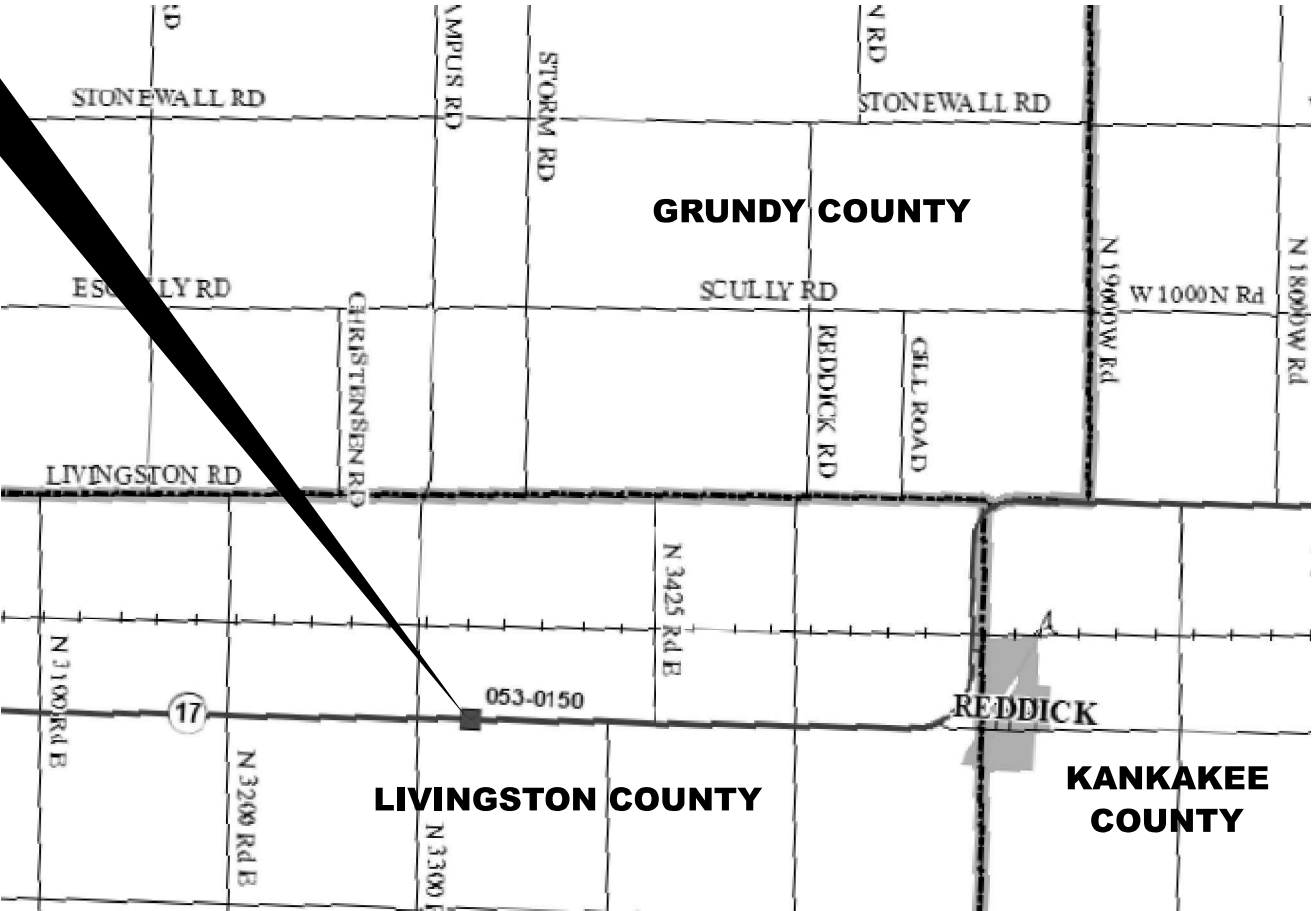
PROJECT LOCATION
STRUCTURE NO. 053-0150
CARRYING IL ROUTE 71 OVER
THE EAST FORK OF MAZON RIVER
6.1 MI. EAST OF IL ROUTE 47



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 JUNIOR SENAT
UNIT CHIEF RON WOODSHANK
DISTRICT 3 (815)434-6131
CONTRACT NO. 66R62



FUNCTIONAL CLASSIFICATION
RURAL - OTHER PRINCIPLE ARTERIAL
F.A.P. ROUTE 41 (IL 71)
2023 ADT = 2,250
P.V. 83.0 % S.U. 6.0 % M.U. 11.0 %

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUBMITTED July 8, 2025
Trisha Thompson REGIONAL ENGINEER

August 15, 2025
Scott A. Elk ENGINEER OF DESIGN AND ENVIRONMENT

August 15, 2025
Chadley DIRECTOR OF HIGHWAYS PROJECT IMPLEMENTATION

PRINTED BY THE AUTHORITY
OF THE STATE OF ILLINOIS

GENERAL NOTES

NONE

COMMITMENTS

NONE

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DISTRICT THREE
AS BUILT INFORMATION

SUPERVISING CONSTRUCTION FIELD ENGINEER

RESIDENT ENGINEER / TECHNICIAN

START & END DATES
OF CONSTRUCTION:

INSPECTORS:

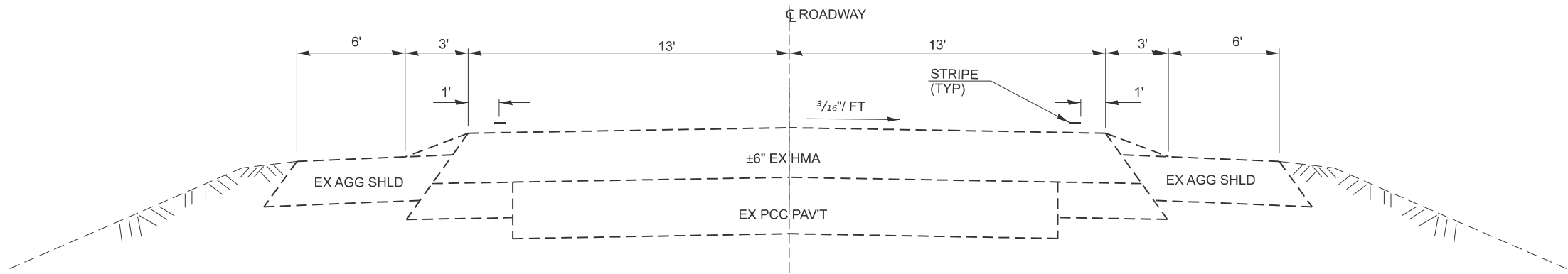
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		DRAWN - RW	REVISED -					41	(15BR-2)BRR	LIVINGSTON	10	2
		CHECKED - JS	REVISED -					CONTRACT NO. 66R62				
	PLOT DATE = 6/12/2025	DATE - 5/13/2025	REVISED -		SCALE:	SHEET 1	OF 1 SHEETS	STA.	TO STA.	ILLINOIS FED. AID PROJECT		

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CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE
				CONTRACT MAINTENANCE
				100% STATE
				BRIDGE
				0047
				S.N. 053-0150
44000155	HOT-MIX ASPHALT SURFACE REMOVAL, 1 1/2"	SQ YD	4	4
50300225	CONCRETE STRUCTURES	CU YD	12	12
50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	2200	2200
67100100	MOBILIZATION	L SUM	1	1
70100450	TRAFFIC CONTROL AND PROTECTION, STANDARD 701201	L SUM	1	1
X4400104	SURFACE REMOVAL (SPECIAL)	SQ YD	2	2
Z0012754	STRUCTURAL REPAIR OF CONCRETE (DEPTH EQUAL TO OR LESS THAN 5 INCHES)	SQ FT	77	77
Z0015500	DEBRIS REMOVAL	L SUM	1	1
Z0041895	POLYMER CONCRETE	CU FT	4.8	4.8
Z0073200	TEMPORARY SHORING AND CRIBBING	EACH	10	10

	USER NAME = ronald.woodshank	DESIGNED - RW	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SUMMARY OF QUANTITIES			F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		DRAWN - RW	REVISED -					41	(15BR-2)BRR	LIVINGSTON	20	3
		CHECKED - JS	REVISED -					CONTRACT NO. 66R62				
	PLOT DATE = 5/22/2025	DATE - 5/13/2025	REVISED -		SCALE:	SHEET 1	OF 2 SHEETS	STA.	TO STA.	ILLINOIS FED. AID PROJECT		



TYPICAL SECTION

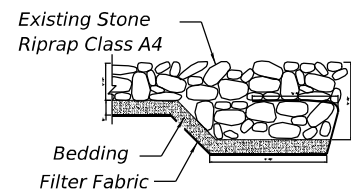
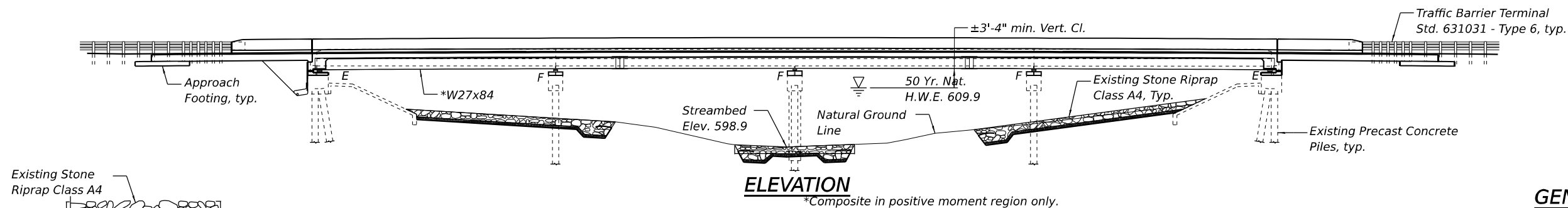
STA. 309+34 TO 328+50

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		DRAWN - RW	REVISED -					41	(15BR-2)BRR	LIVINGSTON	10	4
		CHECKED - JS	REVISED -					CONTRACT NO. 66R62				
	PLOT DATE = 6/12/2025	DATE - 5/13/2025	REVISED -		SCALE:	SHEET 1	OF 1 SHEETS	STA.	TO STA.	ILLINOIS FED. AID PROJECT		

SCOPE OF WORK

1. CONCRETE SUBSTRUCTURE REPAIRS - PIERS
2. DEBRIS REMOVAL

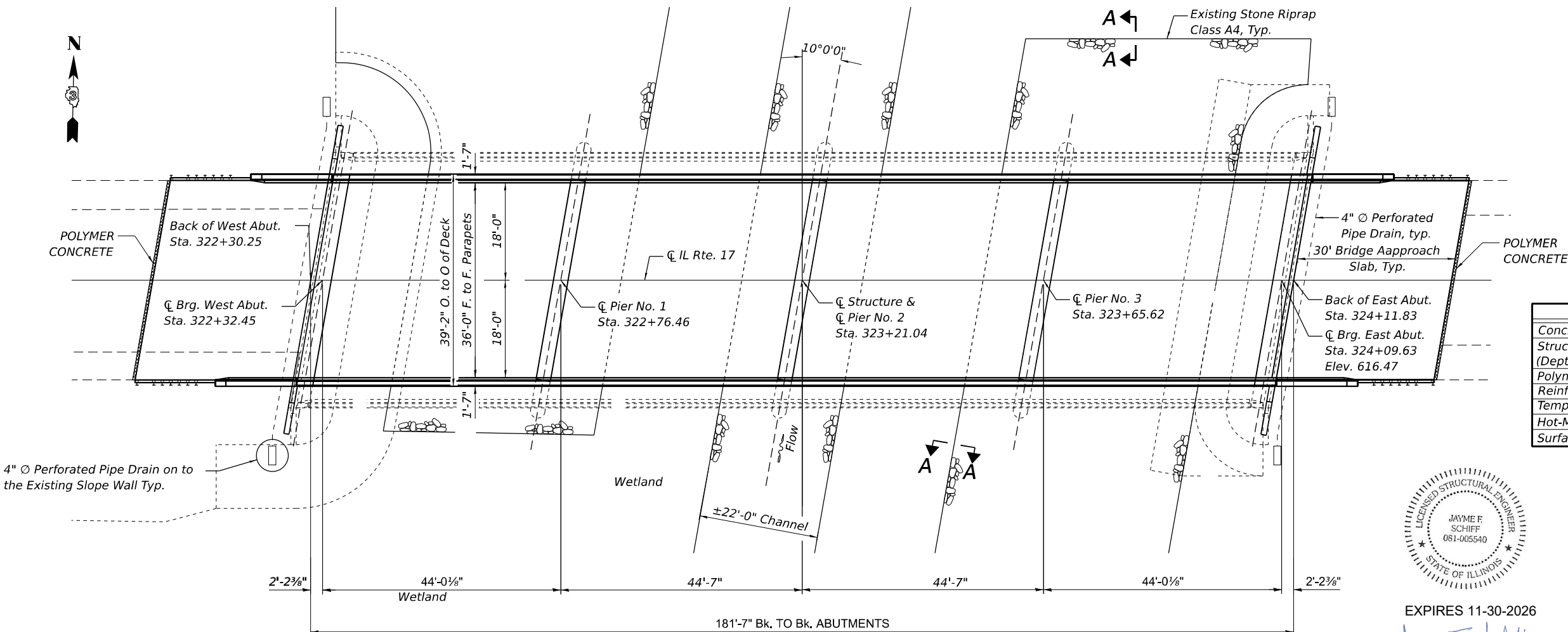


SECTION A-A

GENERAL NOTES

Plan dimensions and details relative to the existing structure have been taken from existing plans are subject to nominal construction variations. The Contactor 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.

Debris removal limits shall be from abutment to abutment and from Right of Way to Right of Way.



TOTAL BILL OF MATERIAL

ITEM	UNIT	TOTAL
Concrete Structures	Cu Yd	12
Structural Repair of Concrete (Depth Equal to or Less than 5 Inches)	Sq Ft	77
Polymer Concrete	Cu Ft	4.8
Reinforcement Bars, Epoxy Coated	Pound	2200
Temporary Shoring and Cribbing	Each	10
Hot-Mix Asphalt Surface Removal 1½"	Sq Yd	4
Surface Removal (Special)	Sq Yd	2

GENERAL PLAN AND ELEVATION

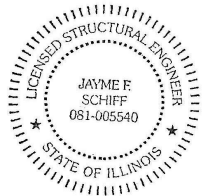
IL ROUTE 17 OVER

EAST FORK MAZON RIVER

F.A.P. ROUTE 41 - SECTION (15BR-2)BRR

LIVINGSTON COUNTY

STA. 323+21.04



EXPIRES 11-30-2026

Jayme F. Schiff

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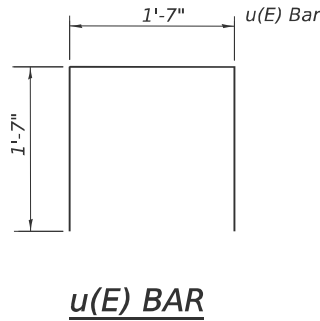
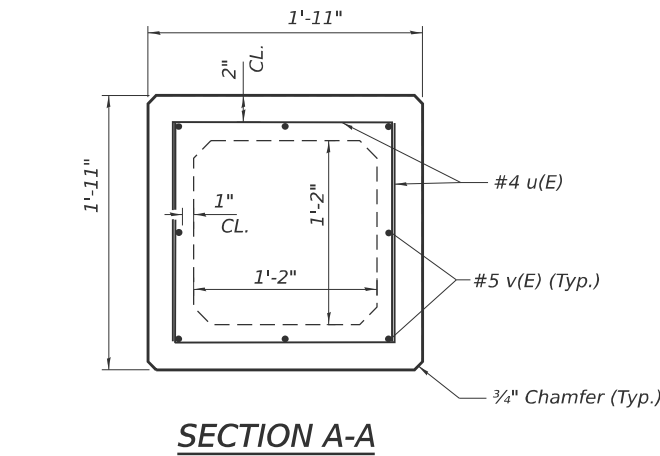
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GENERAL PLAN AND ELEVATION
FOR STRUCTURE NO. 053-0150

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
41	(15BR-2)BRR	LIVINGSTON	10	5
CONTRACT NO. 66R62				
ILLINOIS FED. AID PROJECT				

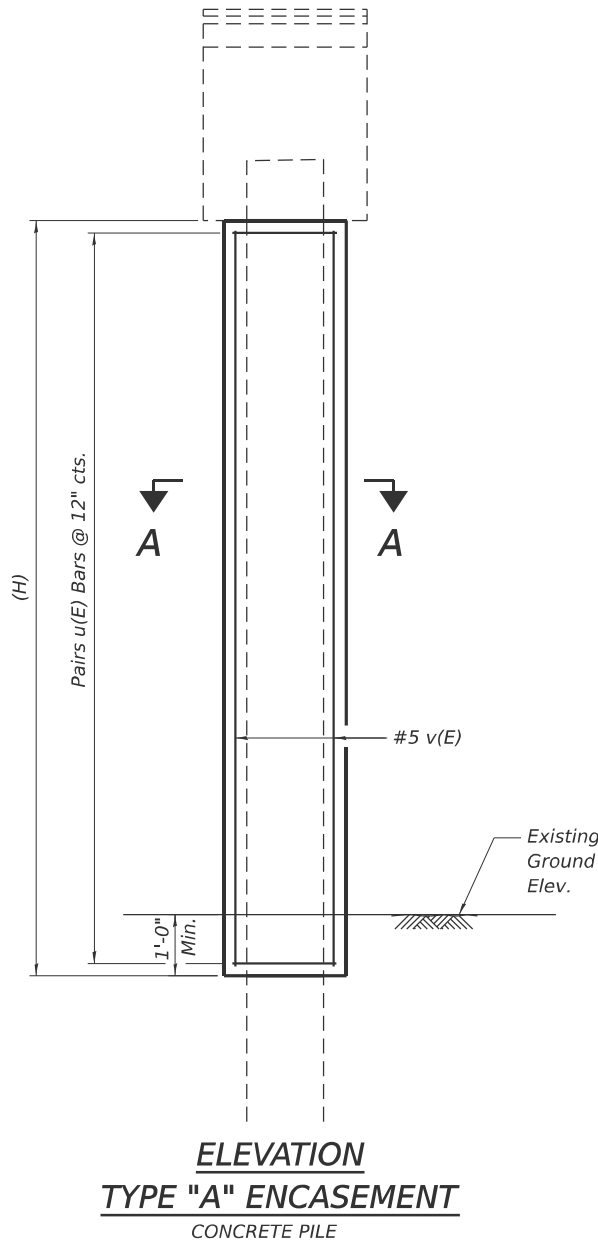
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REINFORCEMENT				
Bar	No.	Size	Length	Shape
u(E)	280	#4	4'-9"	
v(E)	144	#5	8'-9"	
Reinforcement Bars, Epoxy Coated			Lbs.	2200

INTERIOR BEAM REACTION TABLE FOR TEMPORARY SHORING & CRIBBING (SEE SPECIAL PROVISIONS)			
	Abut.	Pier 1 or 3	Pier 2
R_{DC1}	(k)	19.6	38.0
R_{DC2}	(k)	22.6	7.3
R_{DW}	(k)	5.5	14.6
$R_L + Im$	(k)	63.0	84.6
R_{Total}	(k)	110.7	144.5

Note:
Removal of unsoud concrete, excavations, surface preparation on piles to be encased shall conform to the Special Provision for "STRUCTURAL REPAIR OF CONCRETE".
Cost to be included in the bid price for "CONCRETE STRUCTURES".

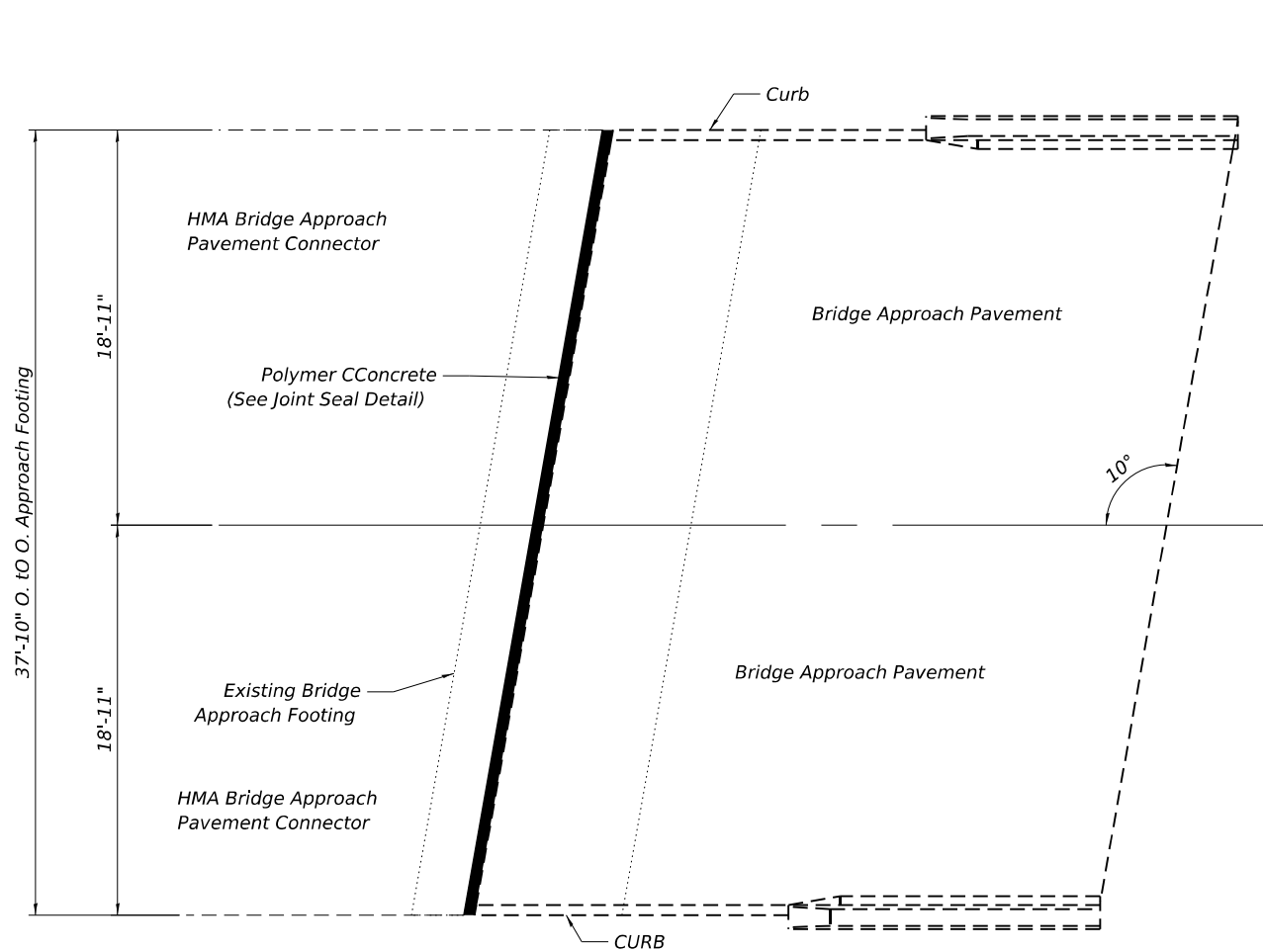


PILE ENCASEMENT SCHEDULE

REINFORCEMENT						
SUBSTRUCTURE UNIT	(H)	u(E)	v(E)		CONCRETE STRUCTURES	TEMP. SHORING & CRIBBING
		NO. PAIRS	NO.	LENGTH		
PIER 1						
Bent 1	7'-10"	8	8	8'-9"	0.7	
Bent 2	8'-2"	8	8	8'-9"	0.7	
Bent 3	8'-7"	9	8	8'-9"	0.7	
Bent 4	9'-0	9	8	8'-9"	0.8	
Bent 5	8'-9"	9	8	8'-9"	0.8	2
Bent 6	8'-6"	9	8	8'-9"	0.7	2
Bent 7	8'-8"	9	8	8'-9"	0.7	
Bent 8	8'-3"	8	8	8'-9"	0.7	
Bent 9	8'-1"	8	8	8'-9"	0.7	2
Subtotals		77	72		6.5	6
PIER 3						
Bent 1	8'-0"	8	8	8'-9"	0.7	
Bent 2	8'-3"	8	8	8'-9"	0.7	
Bent 3	8'-2"	8	8	8'-9"	0.7	
Bent 4	8'-0"	8	8	8'-9"	0.7	
Bent 5	7'-2"	7	8	8'-9"	0.6	
Bent 6	7'-1"	7	8	8'-9"	0.6	2
Bent 7	6'-8"	7	8	8'-9"	0.6	
Bent 8	5'-4"	5	8	8'-9"	0.5	2
Bent 9	4'-7"	5	8	8'-9"	0.4	
Subtotals		63	72		5.5	4
Totals		140	144		12	10

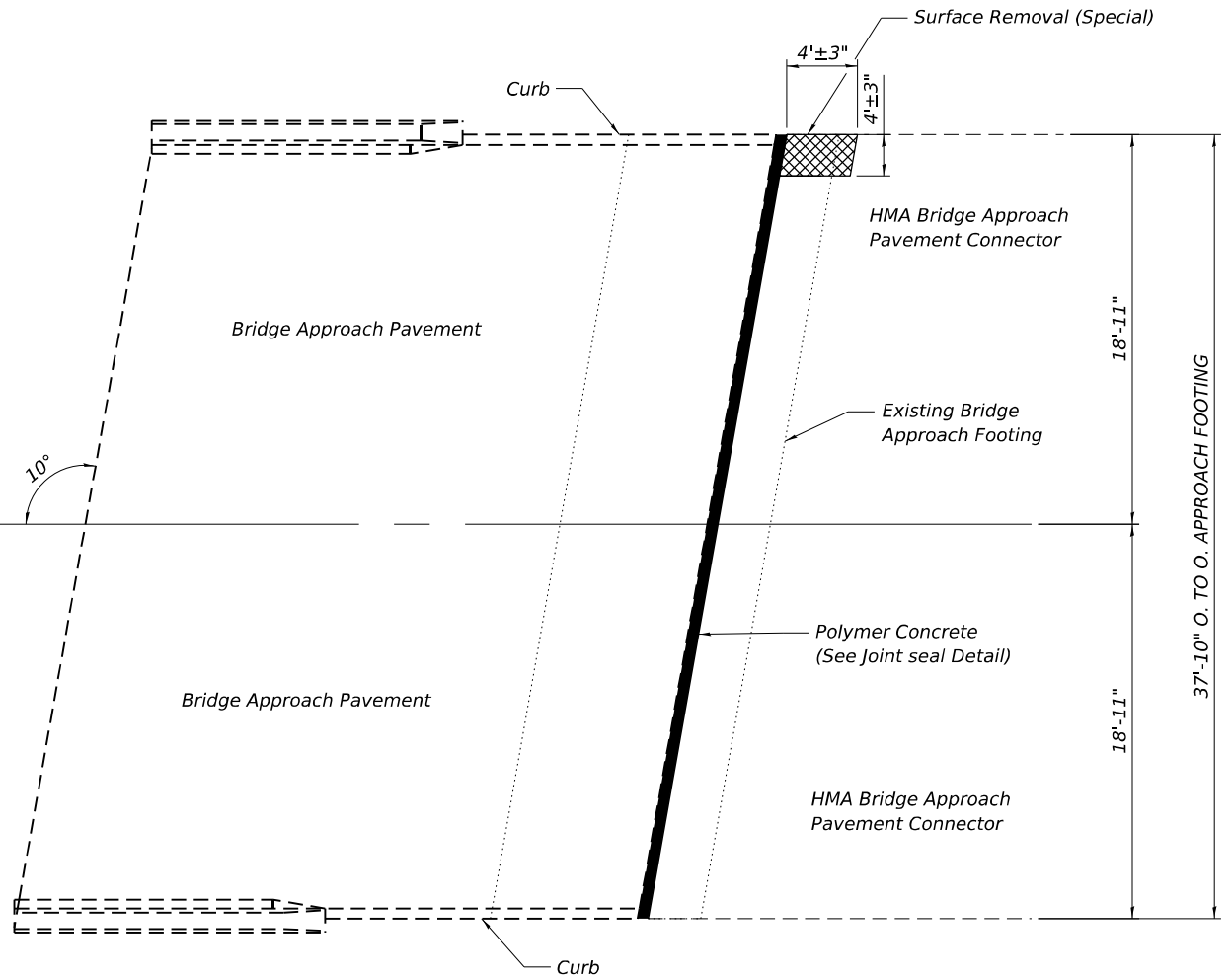
- Notes:
- Pile Bents are numbered from south to north.
 - Columns are measured from bottom of cap to 1' below existing ground.
 - Reinforcement Bars designated (E) shall be Epoxy Coated.
 - Order v(E) bars full length and cut to fit.

USER NAME = ronald.woodshank	DESIGNED - RW	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	PILE ENCASEMENT DETAILS AND SUBSTRUCTURE SCHEDULE			F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	DRAWN - RW	REVISED -					41	(15BR-2)BRR	LIVINGSTON	10	6
	CHECKED - JS	REVISED -		CONTRACT NO. 66R62							
	PLOT DATE = 6/12/2025	DATE - 4/28/2025	REVISED -	SCALE:			SHEET 1 OF 1 SHEETS	STA.	TO STA.	ILLINOIS FED. AID PROJECT	



WEST APPROACH PAVEMENT

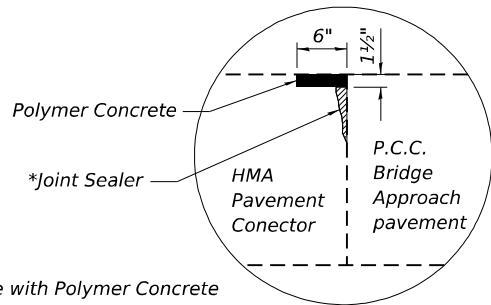
WEST APPROACH SHOWN
EAST APPROACH SIMILAR THRU 180° ROTATION



EAST APPROACH PAVEMENT

BILL OF MATERIAL - WEST APPROACH

ITEM	UNIT	TOTAL
Hot-Mix Asphalt Surface Removal 1½"	Sq Yd	2
Polymer Concrete	Cu Ft	2.4



JOINT SEAL DETAIL

BILL OF MATERIAL - EAST APPROACH

ITEM	UNIT	TOTAL
Hot-Mix Asphalt Surface Removal 1½"	Sq Yd	2
Polymer Concrete	Cu Ft	2.4
Surface Removal (Special)	Sq Yd	2

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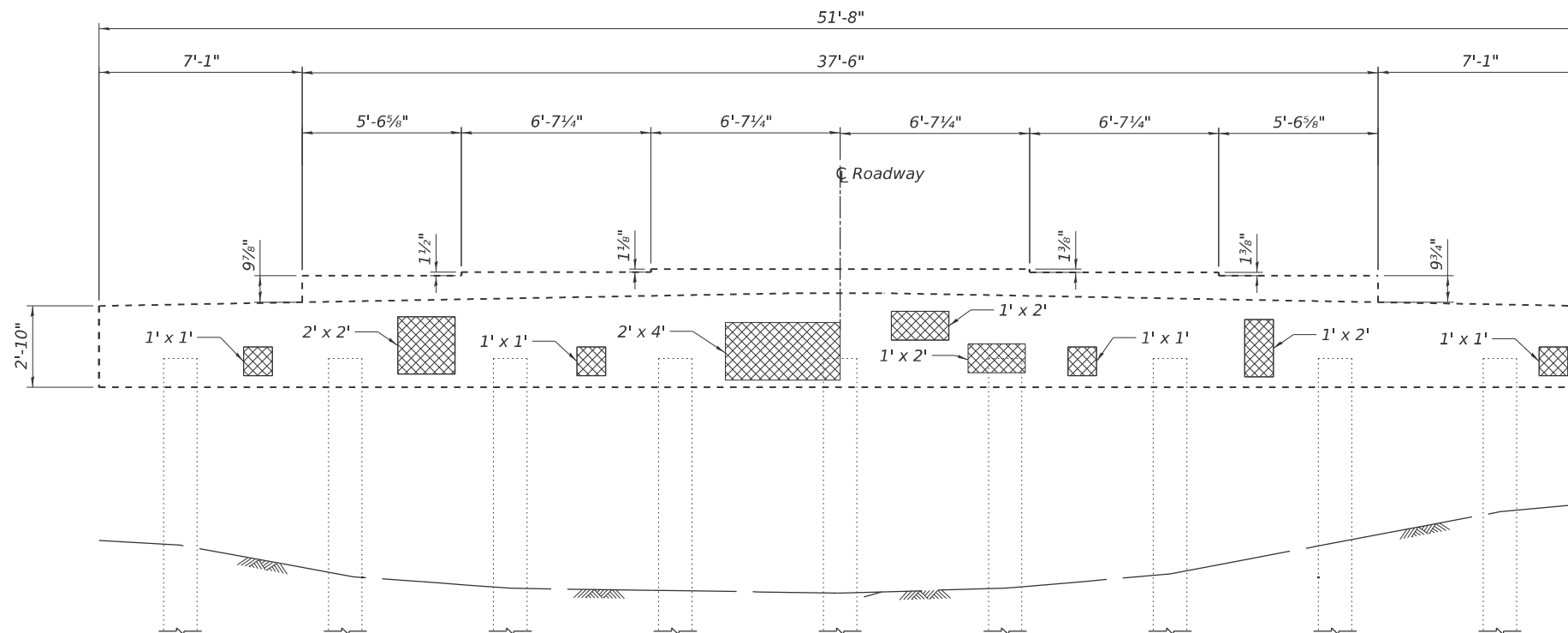
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

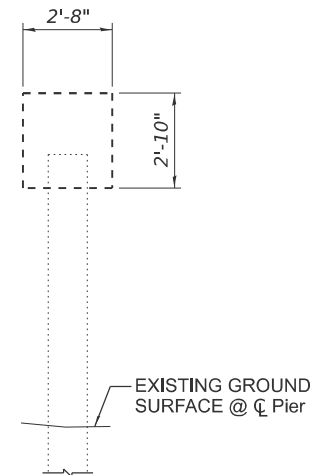
APPROACH PAVEMENT JOINT SEAL

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
41	(15BR-2)BRR	LIVINGSTON	10	7
CONTRACT NO. 66R62				
ILLINOIS FED. AID PROJECT				



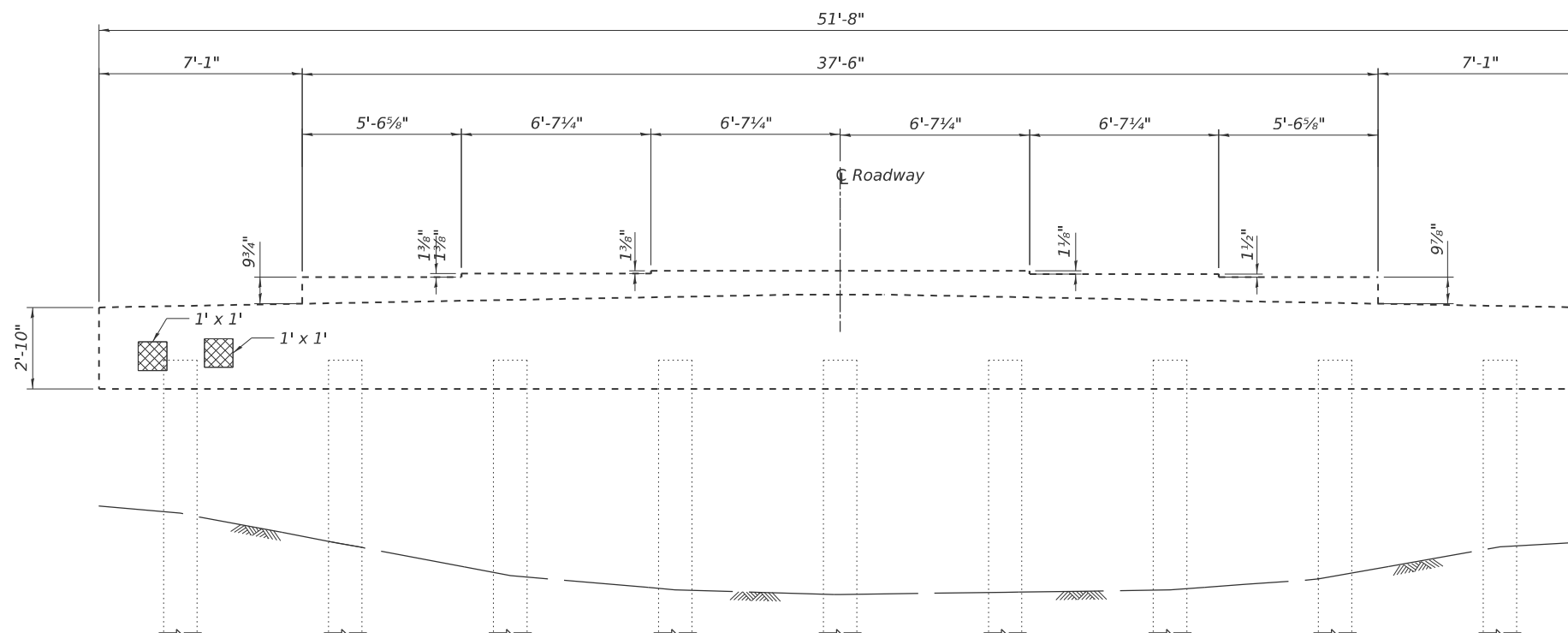
WEST ELEVATION
(Looking East)



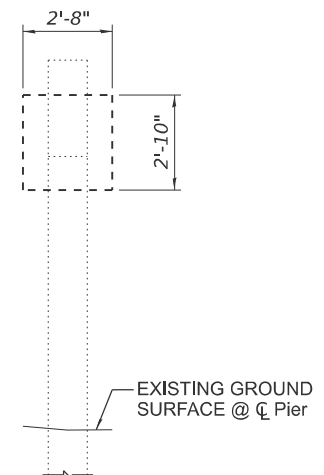
SOUTH END VIEW
(Looking North)

BILL OF MATERIAL - PIER 1

ITEM	UNIT	TOTAL
Structural Repair of Concrete (Depth Equal to or Less than 5 Inches)	Sq Ft	24



EAST ELEVATION
(Looking West)



NORTH END VIEW
(Looking South)

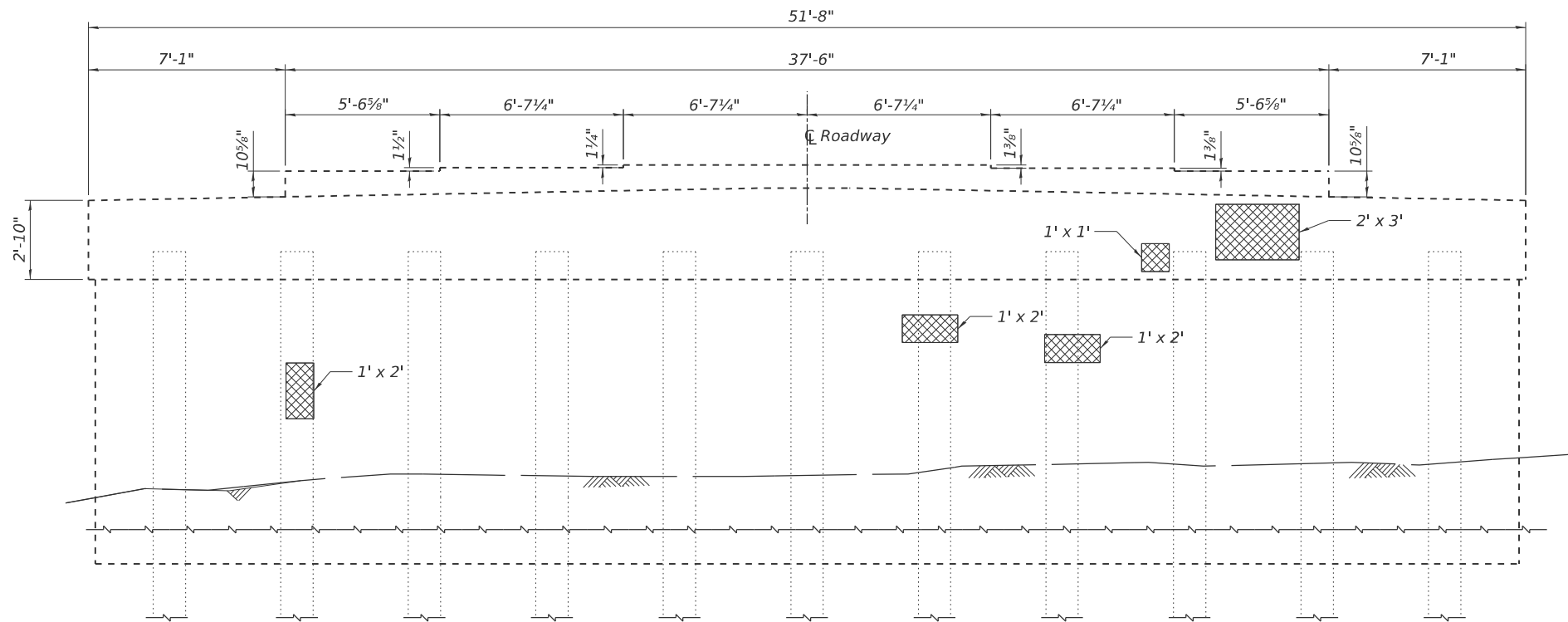
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUBSTRUCTURE REPAIRS - PIER 1 (WEST PIER)
FOR STRUCTURE NO. 053-0150

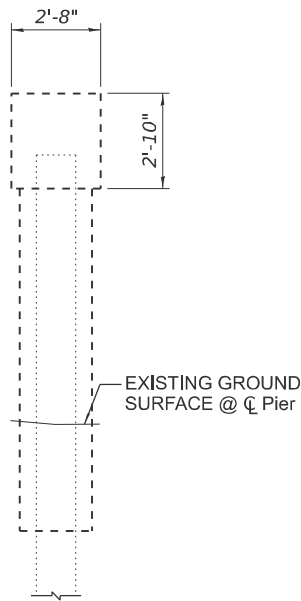
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41	(15BR-2)BRR	LIVINGSTON	10	8
CONTRACT NO. 66R62				
ILLINOIS FED. AID PROJECT				

SCALE: SHEET 1 OF 3 SHEETS STA. TO STA.

USER NAME = ronald.woodshank	DESIGNED - RW	REVISED -
	DRAWN - RW	REVISED -
	CHECKED - JS	REVISED -
PLOT DATE = 6/12/2025	DATE - 5/13/2025	REVISED -



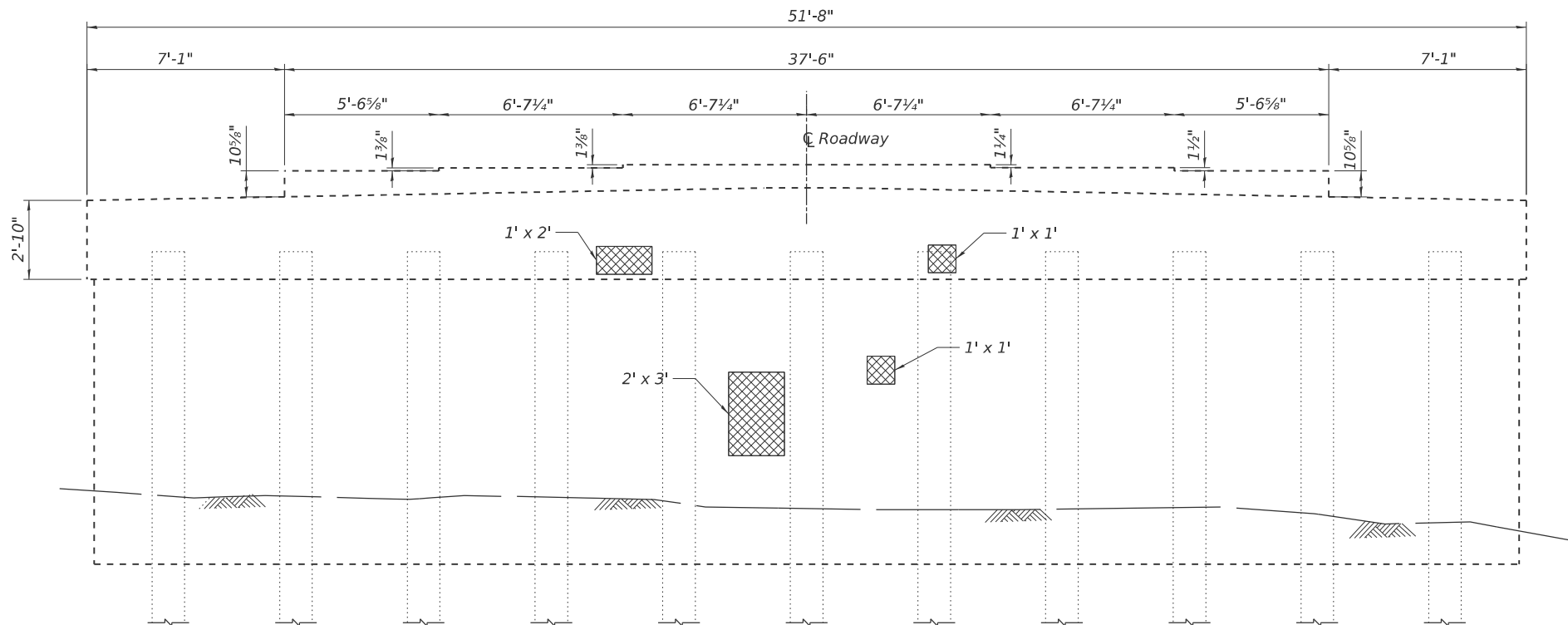
WEST ELEVATION
(Looking East)



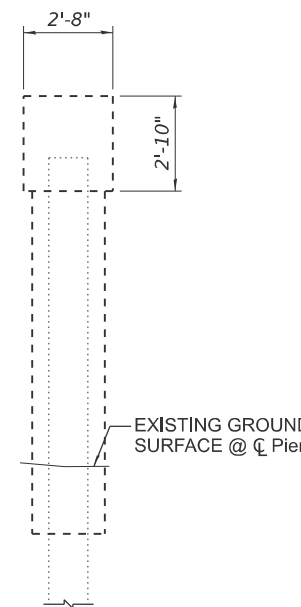
SOUTH END VIEW
(Looking North)

BILL OF MATERIAL - PIER 2

ITEM	UNIT	TOTAL
Structural Repair of Concrete (Depth Equal to or Less than 5 Inches)	Sq Ft	23



EAST ELEVATION
(Looking West)



NORTH END VIEW
(Looking South)

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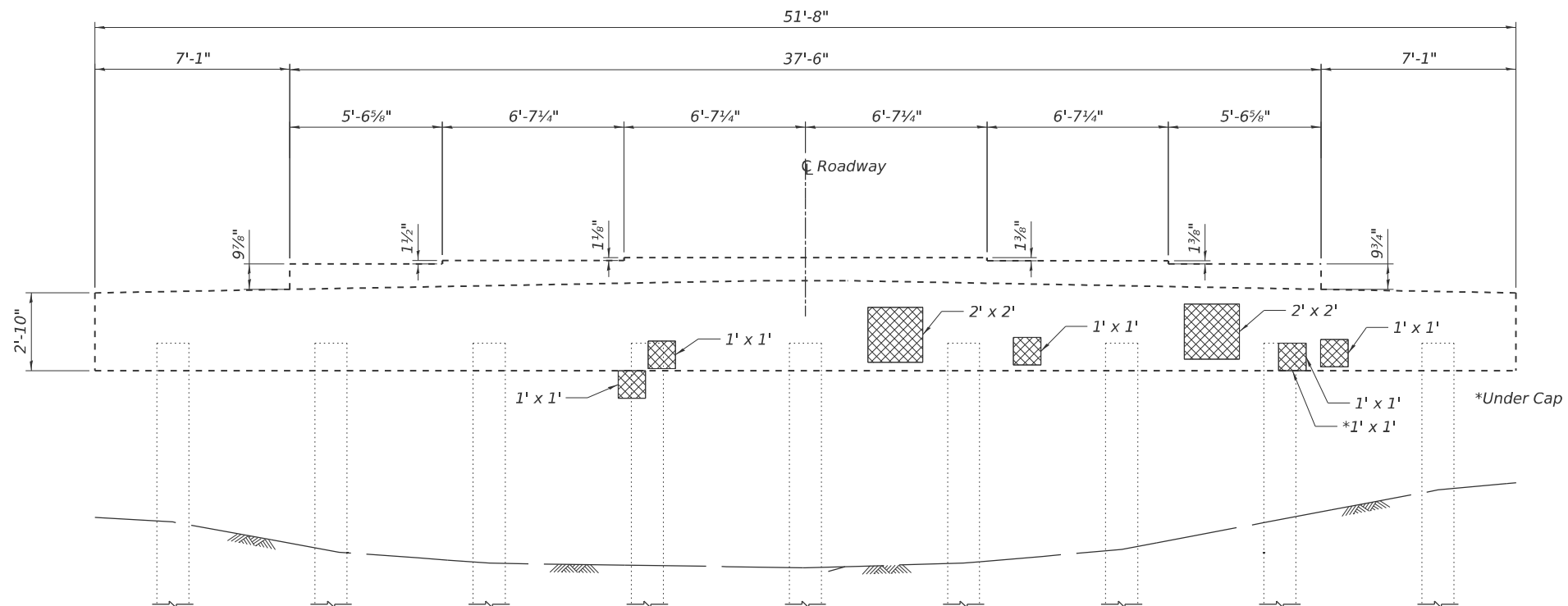
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PLOT DATE = 6/12/2025	DATE - 5/13/2025	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

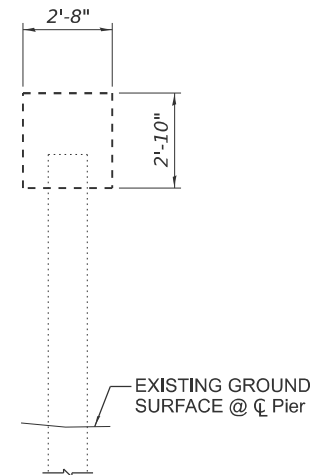
SUBSTRUCTURE REPAIRS - PIER 2 (CENTER PIER)
FOR STRUCTURE NO. 053-0150

SCALE: SHEET 1 OF 3 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
41	(15BR-2)BRR	LIVINGSTON	10	9
LOOKING SOUTH		CONTRACT NO. 66R62		
ILLINOIS		FED. AID PROJECT		



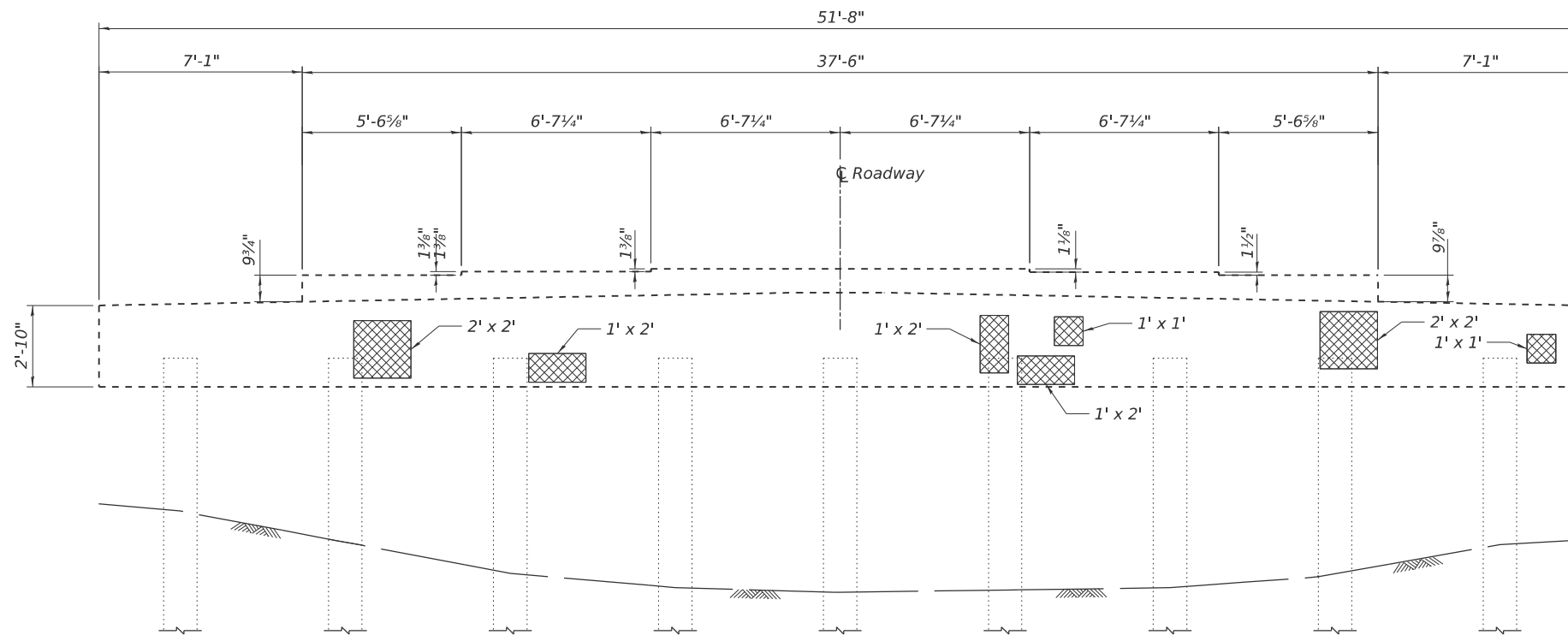
WEST ELEVATION
(LOOKING EAST)



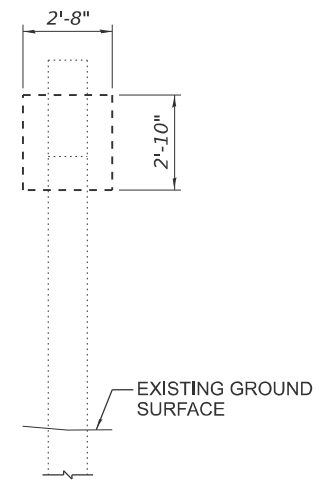
SOUTH END VIEW
(LOOKING NORTH)

BILL OF MATERIAL - PIER 3

ITEM	UNIT	TOTAL
Structural Repair of Concrete (Depth Equal to or Less than 5 Inches)	Sq Ft	30



EAST ELEVATION
(LOOKING WEST)



NORTH END VIEW
LOOKING SOUTH

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUBSTRUCTURE REPAIRS - PIER 3 (EAST PIER)
FOR STRUCTURE NO. 053-0150

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
41	(15BR-2)BRR	LIVINGSTON	10	10
CONTRACT NO. 66R62				
ILLINOIS FED. AID PROJECT				

SCALE: SHEET 1 OF 3 SHEETS STA. TO STA.

USER NAME = ronald.woodshank	DESIGNED - RW	REVISED -
	DRAWN - RW	REVISED -
	CHECKED - JS	REVISED -
PLOT DATE = 6/12/2025	DATE - 5/13/2025	REVISED -