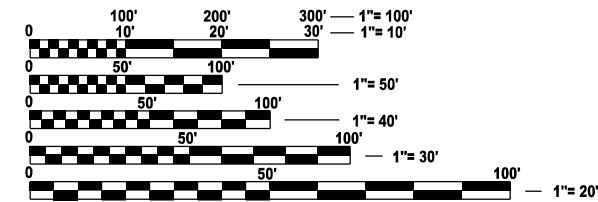


INDEX OF SHEETS

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2	GENERAL NOTES
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22	TEMPORARY CONCRETE BARRIER FOR STAGE CONSTRUCTION
23	JOINT REMOVAL DETAILS AT ABUTMENTS
24	JOINT REPLACEMENT DETAILS AT ABUTMENTS
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27 - 29	BEAM REPAIR DETAILS
30	BEARING DETAILS
31 - 32	EXISTING STRUCTURE PLANS - FOR INFORMATION ONLY

STANDARDS

000001-08	STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS
001001-02	AREAS OF REINFORCEMENT BARS
001006	DECIMAL OF AN INCH AND OF A FOOT
482001-02	HMA SHOULDER ADJACENT TO FLEXIBLE PAVEMENT
701101-05	OFF-RD OPERATIONS, MULTILANE, 15' TO 24" FROM PAVEMENT EDGE
701106-02	OFF-RD OPERATIONS, MULTILANE, MORE THAN 15' AWAY
701421-08	LANE CLOSURE, MULTILANE, DAY OPERATIONS ONLY, FOR SPEEDS ≥ 45 MPH TO 55 MPH
701423-10	LANE CLOSURE, MULTILANE, WITH BARRIER, FOR SPEEDS ≥ 45 MPH TO 55 MPH
701426-09	LANE CLOSURE, MULTILANE, INTERMITTENT OR MOVING OPER., FOR SPEEDS ≥ 45 MPH
701701-10	URBAN LANE CLOSURE, MULTILANE INTERSECTION
701901-10	TRAFFIC CONTROL DEVICES
704001-08	TEMPORARY CONCRETE BARRIER
782006-01	GUARDRAIL AND BARRIER WALL REFLECTOR MOUNTING DETAILS



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, P.E.
UNIT CHIEF: RON WOODSHANK
DISTRICT 3 NO. (815) 434-6131
CONTRACT NO. 66P37

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PROPOSED
HIGHWAY PLANS

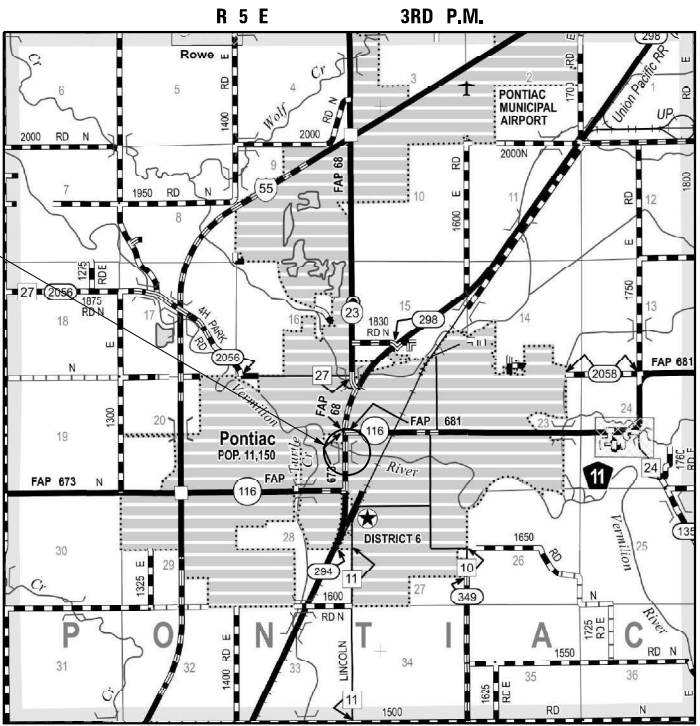
FAP ROUTE 673 (IL 116)
SECTION (11-X-1-BR-1, 11-X-1-BR)BRR
BRIDGE REPAIR
LIVINGSTON COUNTY

C-93-088-24

PROJECT LOCATION

LOCATION 1
STR. NO. 053-0007
(STA. 1484 + 94.00)
CARRYING FAP 677 (IL 116) (EB)
OVER THE VERMILION RIVER
0.55 MI SOUTH OF IL 23

LOCATION 2
STR. NO. 053-0008
(STA. 1484 + 94.00)
CARRYING FAP 677 (IL 116) (WB)
OVER THE VERMILION RIVER
0.55 MI SOUTH OF IL 23



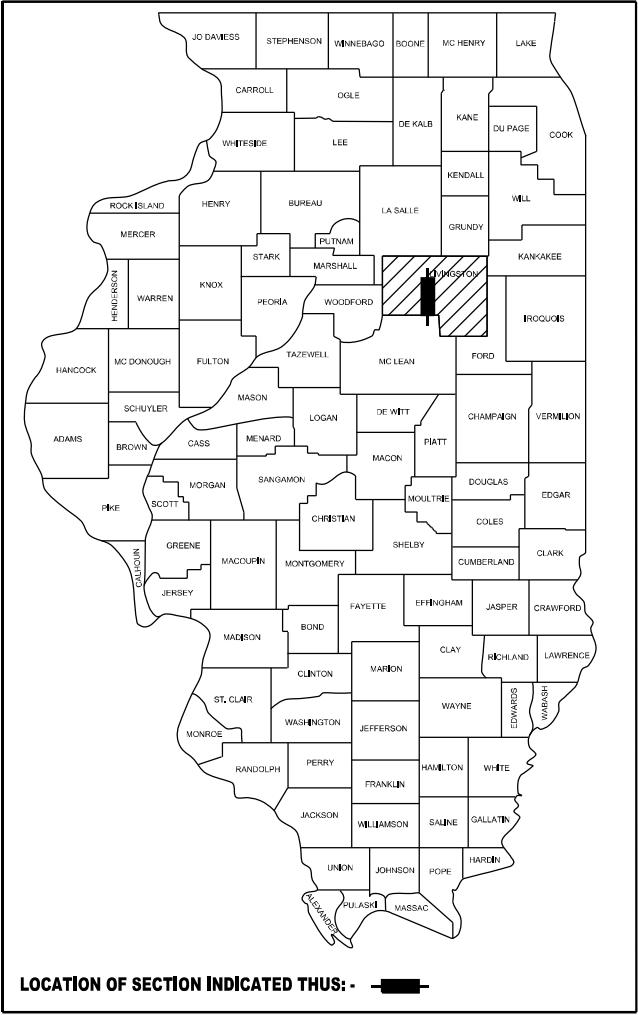
DATE: JANUARY 23 20 25
EXPIRES: NOVEMBER 30 20 25



KUHN & TRELLO
CONSULTING ENGINEERS
A Limited Liability Company
109 N. 37th Street, 3rd Floor
Springfield, IL 62791
Phone: 217-673-2884
Professional Design Firm No. 284-006516

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
677	(11-X-1-BR-1, 11-X-1-BR)BRR	LIVINGSTON	32	1
		ILLINOIS	CONTRACT NO. 66P37	

D-93-051-24



FUNCTIONAL CLASSIFICATION

OTHER PRINCIPAL ARTERIAL
FAP ROUTE 677 (IL 116)
2021 ADT = 8900
P.V. = 92.7% S.U. = 2.8% M.U. = 4.5%

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUBMITTED February 5, 20 25

Triha Thompson REGIONAL ENGINEER

March 21 20 25

See A E T E ENGINEER OF DESIGN AND ENVIRONMENT

March 21 20 25

5 DIRECTOR OF HIGHWAYS PROJECT IMPLEMENTATION

PRINTED BY THE AUTHORITY
OF THE STATE OF ILLINOIS

GENERAL NOTES

THE ENGINEER WILL BE THE SOLE JUDGE CONCERNING CURING TIME FOR THE VARIOUS HMA LIFTS

ALL EXCAVATED MATERIALS, WHICH INCLUDES DIGGING OR GRADING OF ANY SOIL OR FILL MATERIAL, WITH THE EXCEPTION OF AGGREGATE FILLS, MUST BE INCORPORATED WITHIN THE IDOT RIGHT OF WAY.

THE FOLLOWING RATES OF APPLICATION HAVE BEEN USED IN CALCULATING PLAN QUANTITIES:

GRANULAR MATERIALS	2.05	TONS / CU YD
HMA RESURFACING	112	LBS / SQ YD /INCH

COMMITMENTS

THE ENGINEER SHALL RECORD THE DECK SLAB REPAIR LOCATIONS, PATCH SIZE AND QUANTITIES ON THE DECK SLAB REPAIR "AS-BUILT" PLAN DETAILS. WHEN RECORDED, THE ENGINEER SHALL FORWARD THE DECK SLAB REPAIR "AS-BUILT" PLAN DETAILS TO THE BRIDGE OFFICE IN A TIMELY MANNER. BRIDGE OFFICE CONTACT PERSON IS ADRIAN HOLLOWAY. PHONE (217) 524-8624. EMAIL: Adrian.Halloway@illinois.gov

THE ENGINEER SHALL NOTIFY THE DEPARTMENT'S DESIGN AND PLANNING SECTION WHEN THE "AS-BUILT" DECK SLAB REPAIR PLAN HAS BEEN SENT TO THE BRIDGE OFFICE.

CONTACT PERSON IS JUNIOR SENAT. PHONE (815) 434-8418
EMAIL: Junior.Senat@illinois.gov

NO INSTREAM WORK DUE TO MUSSELS.

THE CONTRACTOR SHALL NOT ENTER THE RIVER

THE CONTRACTOR SHALL NOT ENTER THE WATERS OF THE VERMILION RIVER DURING ANY PHASE OF THE CONSTRUCTION PROJECT. THIS RESTRICTION APPLIES TO ALL PERSONNEL, EQUIPMENT, AND MATERIALS ASSOCIATED WITH THE PROJECT. THE PURPOSE OF THIS PROHIBITION IS TO PROTECT THE ENVIRONMENT, PREVENT WATER POLLUTION, AND ENSURE COMPLIANCE WITH REGULATORY REQUIREMENTS.

HMA MIXTURE REQUIREMENT TABLE		
LOCATIONS:	HOT-MIX ASPHALT	
	SHOULDERS	
MIXTURE USE(S):	HMA BINDER	HMA SURFACE
	BOTTOM LIFTS	TOP LIFT
BINDER GRADE (PG):	PG 64-22	PG 64-22
DESIGN AIR VOIDS:	4% @ N50	4% @ N50
MIXTURE COMPOSITION: (MIXTURE GRADATION):	IL 19.0	IL 9.5
FRICTION AGGREGATE:		MIXTURE D
MIXTURE WEIGHT:	112.0 LB/SY/IN	112.0 LB/SY/IN
QUALITY MANAGEMENT PROGRAM:	QC/QA	QC/QA
SUBLOT SIZE:	N/A	N/A
DENSITY TEST METHOD:	CORES / NUCLEAR	CORES / NUCLEAR

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DISTRICT 3
AS-BUILT INFORMATION**

SUPERVISING CONSTRUCTION FIELD ENGINEER

RESIDENT ENGINEER / TECHNICIAN

**START & END DATES
OF CONSTRUCTION:** _____

INSPECTORS: _____

MODEL: SOO01 Sheet
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CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE	
				100% STATE	100% STATE
				BRIDGE	BRIDGE
				0047	0047
				S.N. 053-0007	S.N. 053-0008
20200600	EXCAVATING AND GRADING EXISTING SHOULDER	UNIT	3	1	2
25000210	SEEDING, CLASS 2A	ACRE	0.25	0.12	0.13
25000400	NITROGEN FERTILIZER NUTRIENT	POUND	9	4.5	4.5
25000500	PHOSPHORUS FERTILIZER NUTRIENT	POUND	9	4.5	4.5
25000600	POTASSIUM FERTILIZER NUTRIENT	POUND	9	4.5	4.5
25100105	MULCH, METHOD 1	ACRE	0.25	0.12	0.13
40600290	BITUMINOUS MATERIALS (TACK COAT)	POUND	437	182	255
44004250	PAVED SHOULDER REMOVAL	SQ YD	772	338	434
48203033	HOT-MIX ASPHALT SHOULDERS, 9"	SQ YD	971	404	567
50102400	CONCRETE REMOVAL	CU YD	33.8	16.9	16.9
50300255	CONCRETE SUPERSTRUCTURE	CU YD	34.0	17.0	17.0
50300300	PROTECTIVE COAT	SQ YD	136	68	68
50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	2320	1160	1160
50800515	BAR SPLICERS	EACH	48	24	24
52000110	PREFORMED JOINT STRIP SEAL	FOOT	168	84	84
52100010	ELASTOMERIC BEARING ASSEMBLY, TYPE I	EACH	24	12	12

KT

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CONSULTING ENGINEERS

A Limited Liability Company

109 N. 7th Street, 3rd Floor

Springfield, IL 62701

Phone: 312-678-0844

Professional Design Firm No. 184-006556

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	DRAWN - MS	REVISED -
	CHECKED - JS	REVISED -
PLOT DATE = 1/23/2025	DATE - 9/12/24	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

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

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
677	(11-X-1-BR-1, 11-X-1-BR)BRR	LIVINGSTON	32	3
CONTRACT NO. 66P37				
		ILLINOIS	FED. AID PROJECT	

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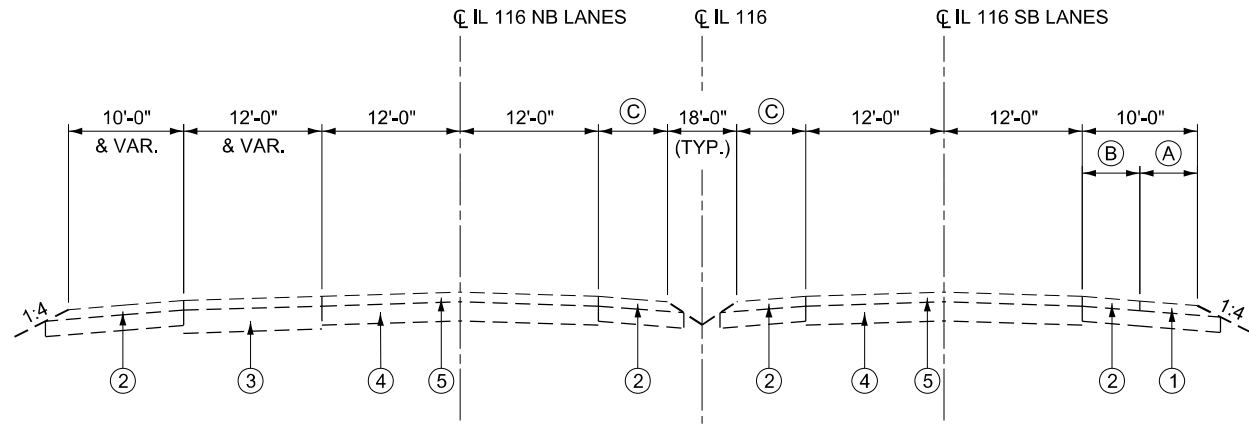
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				100% STATE	100% STATE
				BRIDGE	BRIDGE
				0047	0047
				S.N. 053-0007	S.N. 053-0008
52100520	ANCHOR BOLTS, 1"	EACH	8	4	4
60920012	PIPE CULVERTS TO BE CLEANED 12"	FOOT	106	53	53
63300575	REMOVE AND REERECT RAIL ELEMENT OF EXISTING GUARDRAIL	FOOT	50	25	25
67000400	ENGINEER'S FIELD OFFICE, TYPE A	CAL MO	6	3	3
67100100	MOBILIZATION	L SUM	1	0.5	0.5
70100310	TRAFFIC CONTROL AND PROTECTION, STANDARD 701421	L SUM	1	0.5	0.5
70102635	TRAFFIC CONTROL AND PROTECTION, STANDARD 701701	L SUM	1	0.5	0.5
70107025	CHANGEABLE MESSAGE SIGN	CAL DA	120	60	60
70400100	TEMPORARY CONCRETE BARRIER	FOOT	750	375	375
70400200	RELOCATE TEMPORARY CONCRETE BARRIER	FOOT	750	375	375
70600260	IMPACT ATTENUATORS, TEMPORARY (FULLY REDIRECTIVE, NARROW), TEST LEVEL 3	EACH	2	1	1
70600332	IMPACT ATTENUATORS, RELOCATE (FULLY REDIRECTIVE, NARROW), TEST LEVEL 3	EACH	2	1	1
* 78009004	MODIFIED URETHANE PAVEMENT MARKING - LINE 4"	FOOT	2786	1246	1540
* 78200005	GUARDRAIL REFLECTORS, TYPE A	EACH	14	7	7
78300202	PAVEMENT MARKING REMOVAL - WATER BLASTING	SQ FT	465	208	257
X0325748	ACRYLIC COATING	SQ YD	27.8	18.9	8.9

*= SPECIALTY ITEM

 KUHN & TRELO CONSULTING ENGINEERS A Limited Liability Company 109 N. 7th Street, 3rd Floor Springfield, IL 62701 Phone: 217-678-0844 Professional Design Firm No. 184-006556	USER NAME = msulheard	DESIGNED - JS	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SUMMARY OF QUANTITIES				F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		DRAWN - MS	REVISED -						677	(11-X-1-BR-1, 11-X-1-BR)BRR	LIVINGSTON	32	4
		CHECKED - JS	REVISED -						CONTRACT NO. 66P37				
	PLOT DATE = 1/23/2025	DATE - 9/12/24	REVISED -		SCALE:	SHEET 2	OF 3	SHEETS	STA.	TO STA.	ILLINOIS FED. AID PROJECT		

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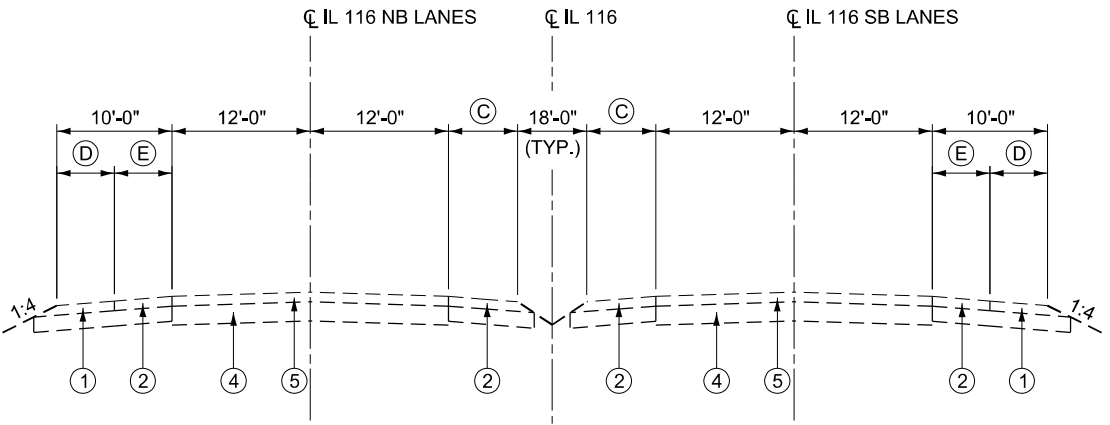
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				100% STATE	100% STATE
				BRIDGE 0047	BRIDGE 0047
				S.N. 053-0007	S.N. 053-0008
X0325749	FIBER WRAP	SQ FT	169 . 2	111 . 1	58 . 1
X6050222	FILLING INLETS, TEMPORARY	EACH	2	1	1
X6350204	LINEAR DELINEATOR PANELS, 4 INCH	EACH	12	6	6
X6350206	LINEAR DELINEATOR PANELS, 6 INCH	EACH	12	6	6
X7010035	TRAFFIC CONTROL AND PROTECTION, STANDARD 701423 (SPECIAL)	EACH	2	1	1
X7200201	WIDTH RESTRICTION SIGNING	L SUM	1	0 . 5	0 . 5
Z0001800	APPROACH SLAB REPAIR (PARTIAL DEPTH)	SQ YD	25	18	7
Z0001899	JACK AND REMOVE EXISTING BEARINGS	EACH	24	12	12
Z0005900	BRIDGE CURB OR HUBGUARD REPAIR	FOOT	20	10	10
Z0010615	CLEANING EXISTING INLETS	EACH	5	2 . 5	2 . 5
Z0013798	CONSTRUCTION LAYOUT	L SUM	1	0 . 5	0 . 5
Z0016001	DECK SLAB REPAIR (FULL DEPTH, TYPE I)	SQ YD	2	1	1
Z0016002	DECK SLAB REPAIR (FULL DEPTH, TYPE II)	SQ YD	10	5	5
Z0016200	DECK SLAB REPAIR (PARTIAL)	SQ YD	18	16	2
X7200061	TEMPORARY INFORMATION SIGNING	SQ FT	147	73	74
Z0043800	PRECAST PRESTRESSED CONCRETE I-BEAM REPAIR	SQ FT	63 . 7	40 . 5	23 . 2



NORTHBOUND SOUTHBOUND

EXISTING TYPICAL SECTION

STA. 1480+90 TO STA. 1482+75



NORTHBOUND SOUTHBOUND

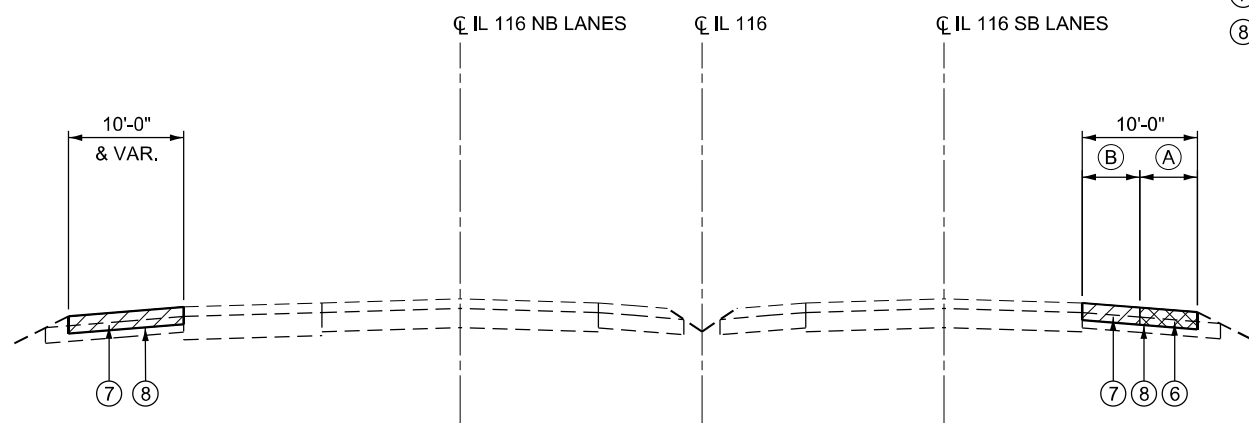
EXISTING TYPICAL SECTION

STA. 1482+75 TO STA. 1483+67

STA. 1486+28 TO STA. 1488+60

- (A) VAR. 7'-0" TO 0'-0"
(B) VAR. 3'-0" TO 10'-0"
(C) 6'-0" & VAR. FROM 3'-0"
(D) VAR. 0'-0" TO 5'-0"
(E) VAR. 5'-0" TO 10'-0"

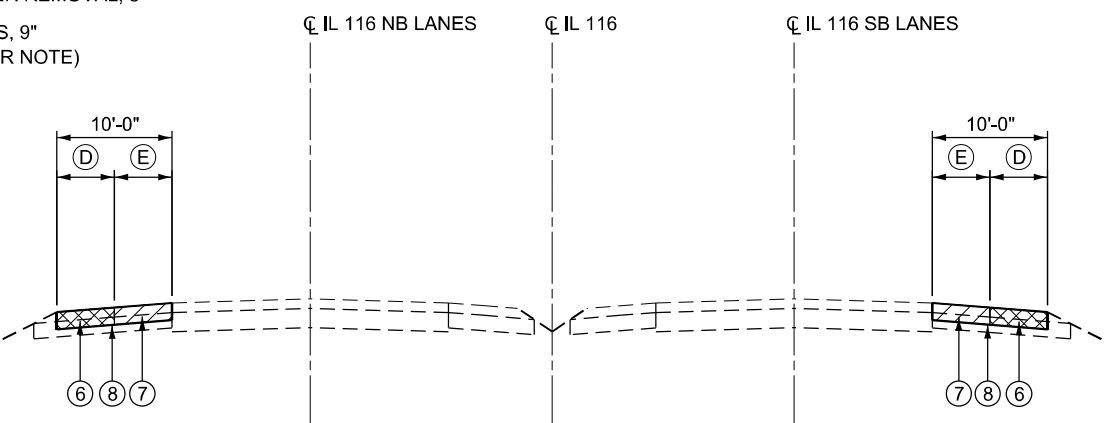
- (1) EX AGGREGATE SHOULDER
(2) EX HMA SHOULDER, 8"
(3) EX 12" PCC PAVEMENT
(4) EX 10" PCC PAVEMENT
(5) EX 5" HMA OVERLAYS
(6) PR EXCAVATING AND GRADING EX SHOULDER
(7) PR PAVED SHOULDER REMOVAL, 8"
(8) PR HMA SHOULDERS, 9" (SEE HMA SHOULDER NOTE)



NORTHBOUND SOUTHBOUND

PROPOSED TYPICAL SECTION

STA. 1480+90 TO STA. 1482+75



NORTHBOUND SOUTHBOUND

PROPOSED TYPICAL SECTION

STA. 1482+75 TO STA. 1483+67

STA. 1486+28 TO STA. 1488+60

HMA SHOULDER NOTE:
1ST LIFT: 4.0" HMA BINDER COURSE, IL-19.0, N50
2ND LIFT: 3.5" HMA BINDER COURSE, IL-19.0, N50
SURFACE LIFT: 1.5" HMA SURFACE COURSE, IL-9.5, N50

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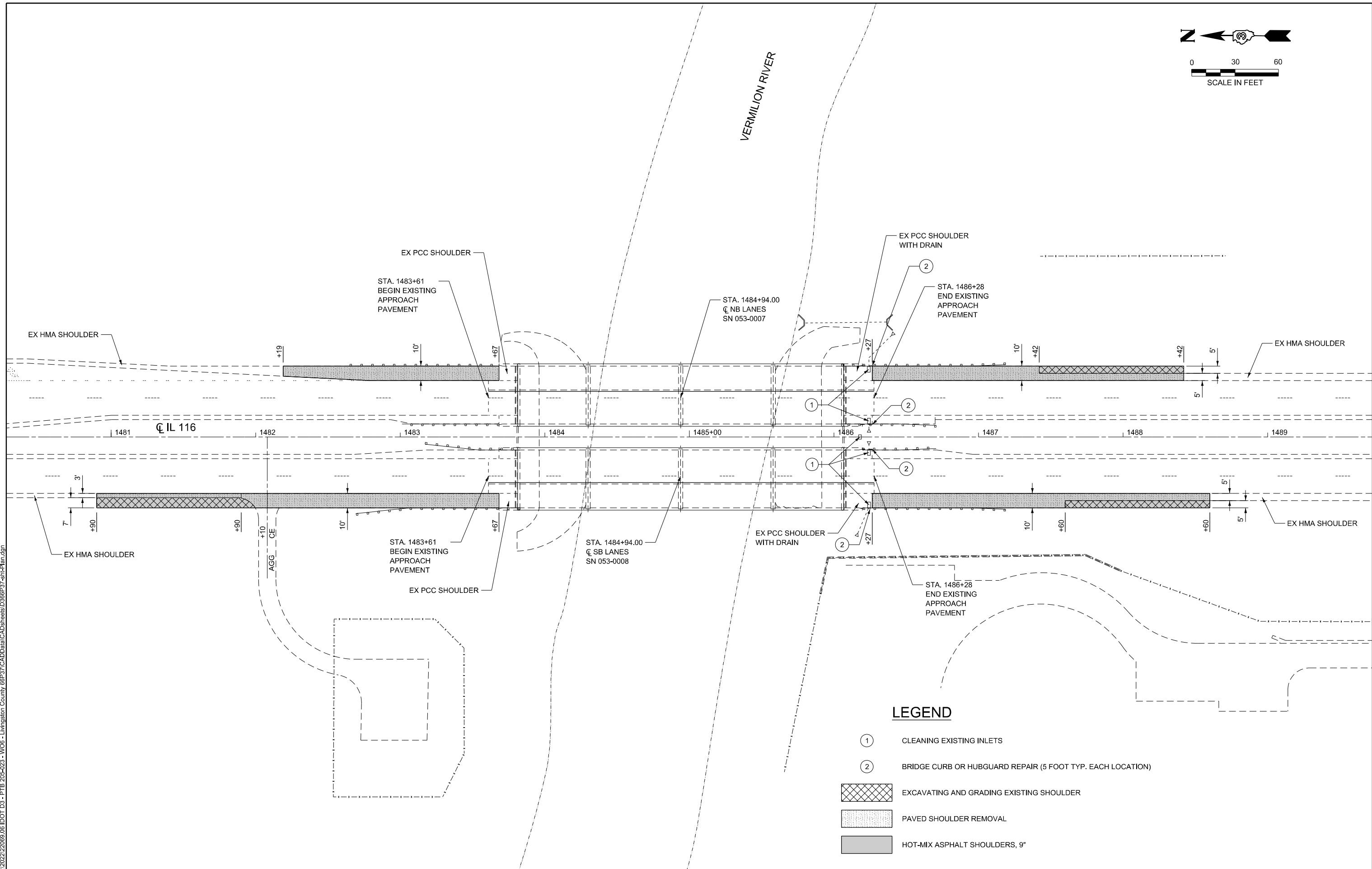
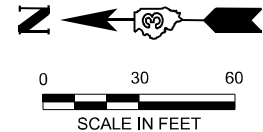


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	DRAWN - MS	REVISED -
	CHECKED - JS	REVISED -
PLOT DATE = 12/19/2024	DATE - 9/12/24	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
677	(11-X-1-BR-1, 11-X-1-BR)BRR	LIVINGSTON	32	6
CONTRACT NO. 66P37				
ILLINOIS FED. AID PROJECT				



LEGEND

- ① CLEANING EXISTING INLETS
- ② BRIDGE CURB OR HUBGUARD REPAIR (5 FOOT TYP. EACH LOCATION)
- [Cross-hatch pattern] EXCAVATING AND GRADING EXISTING SHOULDER
- [Stippled pattern] PAVED SHOULDER REMOVAL
- [Solid grey pattern] HOT-MIX ASPHALT SHOULDERS, 9"

MODEL: Plan Sheet
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CONSULTING ENGINEERS

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Phone: 217-678-0844

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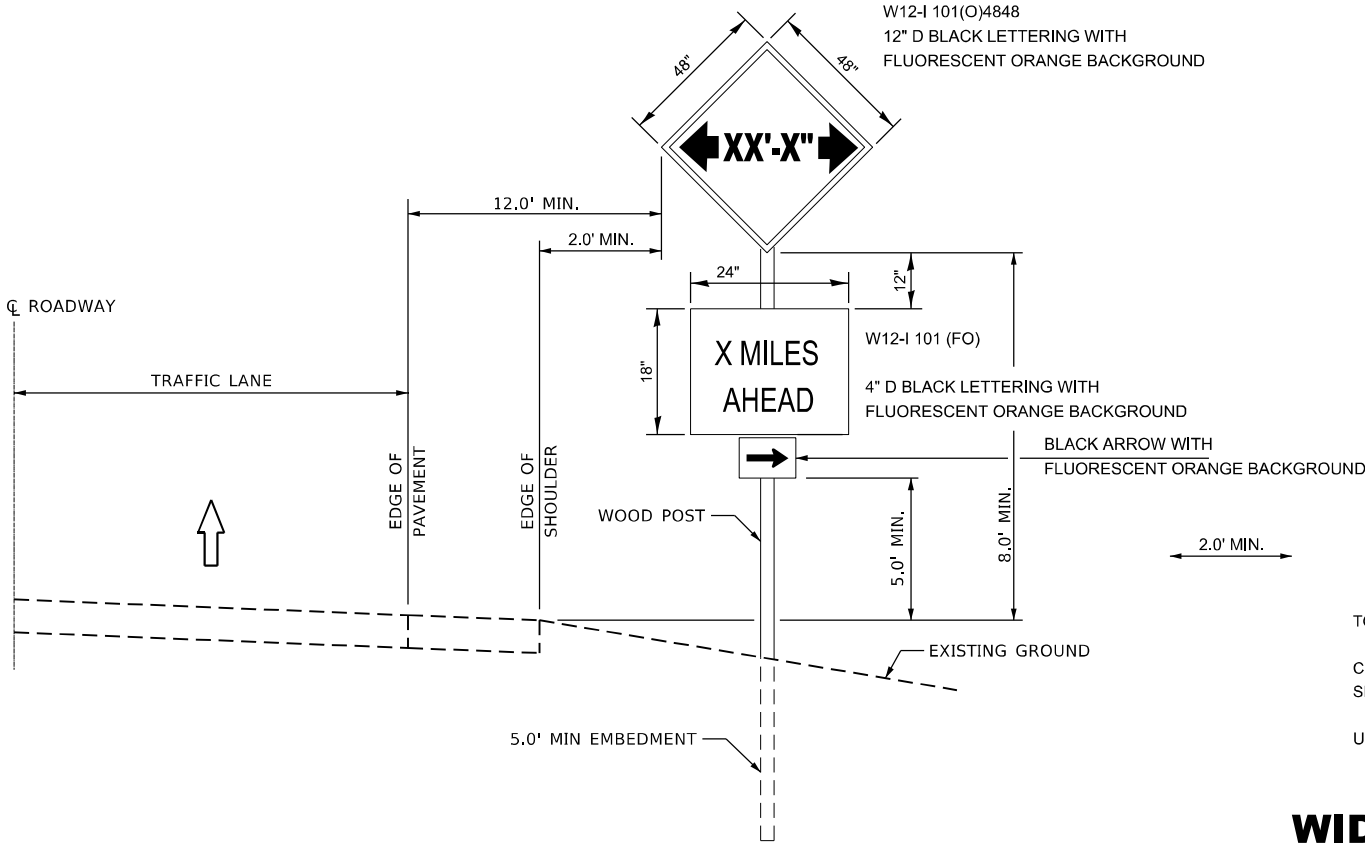
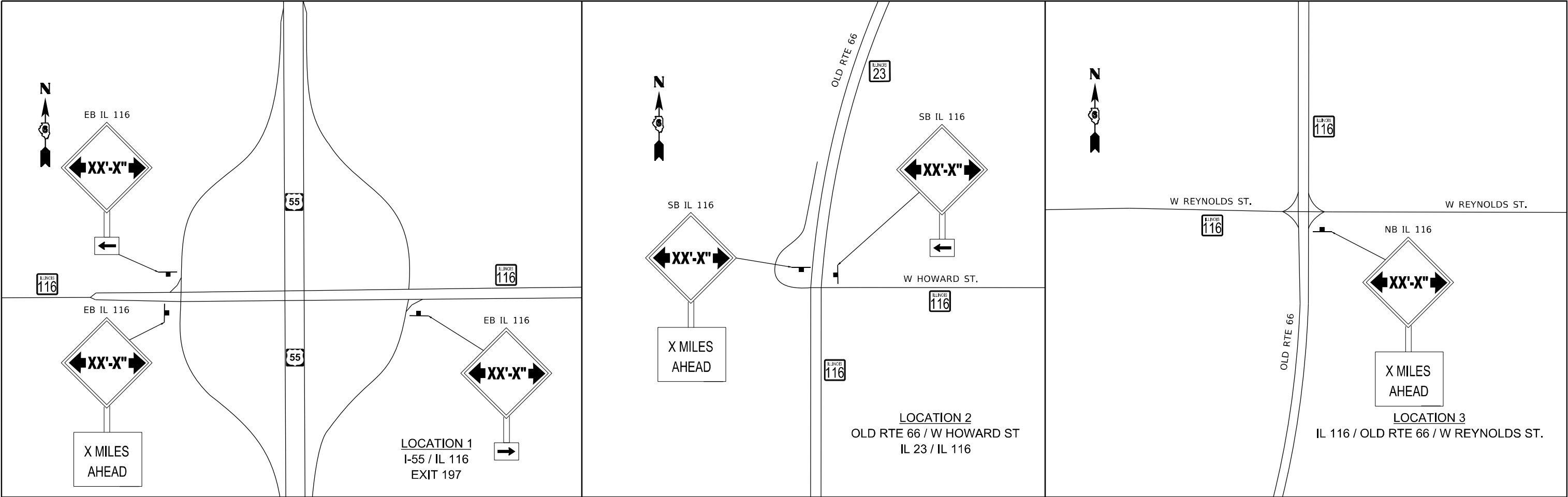
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	CHECKED - JS	REVISED -
PLOT DATE = 12/19/2024	DATE - 9/12/24	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROADWAY PLAN

SCALE: 1" = 30' SHEET 1 OF 1 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
677	(11-X-1-BR-1, 11-X-1-BR)BRR	LIVINGSTON	32	8
CONTRACT NO. 66P37				
ILLINOIS FED. AID PROJECT				



TO BE POST MOUNTED AS SHOWN ELSEWHERE IN THE PLANS.

COST OF SUPPLYING, INSTALLING, MAINTAINING AND REMOVING WIDTH RESTRICTION SIGNS SHALL BE INCLUDED IN THE COST OF THE TRAFFIC CONTROL AND PROTECTION PAY ITEMS.

USE THIS DETAIL IN CONJUNCTION WITH SPECIAL PROVISION.

WIDTH RESTRICTION SIGNING DETAILS

MODEL: Plan Sheet
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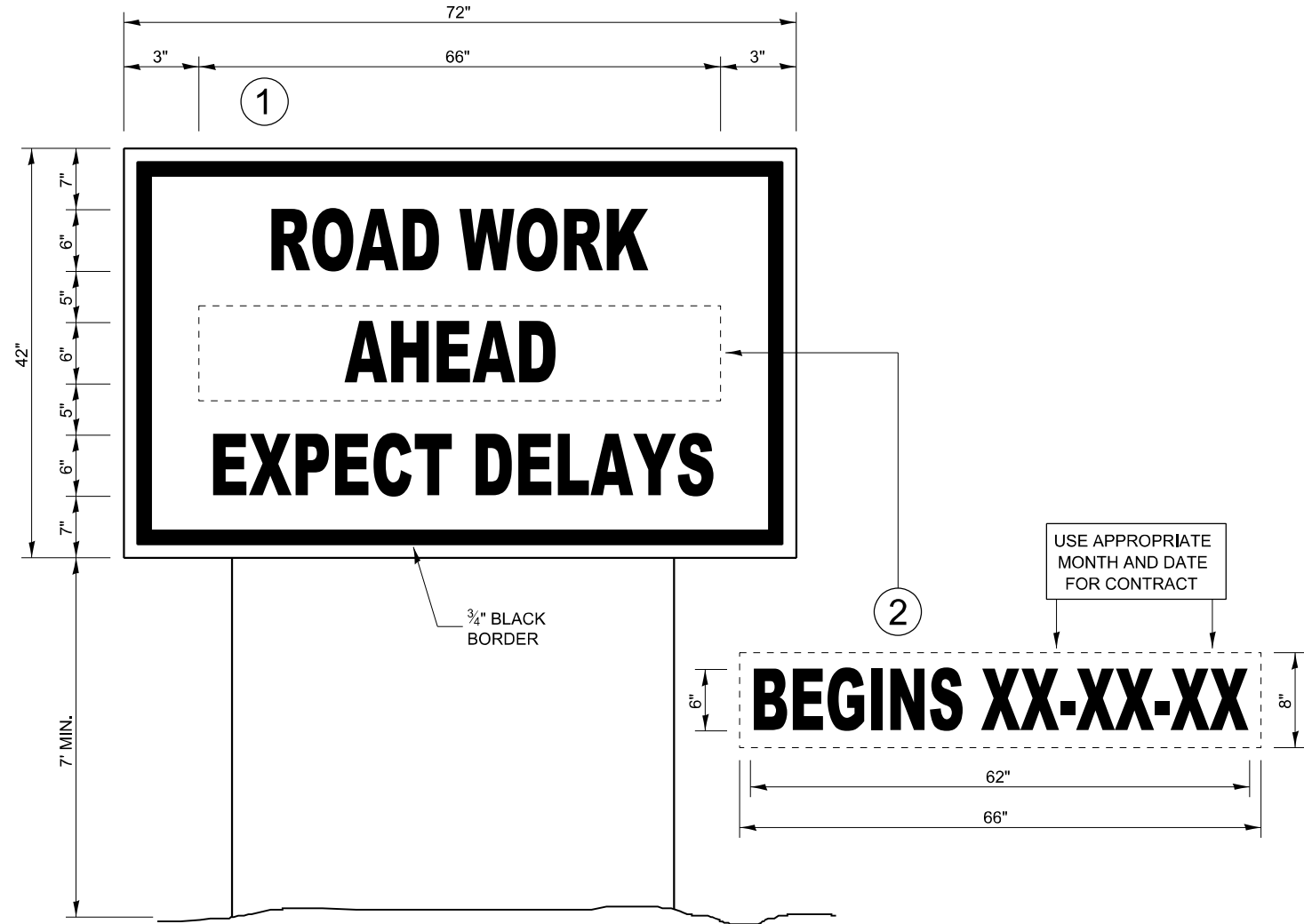
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

WIDTH RESTRICTION SIGNING DETAIL

SCALE: SHEET 1 OF 9 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
677	(11-X-1-BR-1, 11-X-1-BR)BRR	LIVINGSTON	32	9
CONTRACT NO. 66P37				
ILLINOIS FED. AID PROJECT				

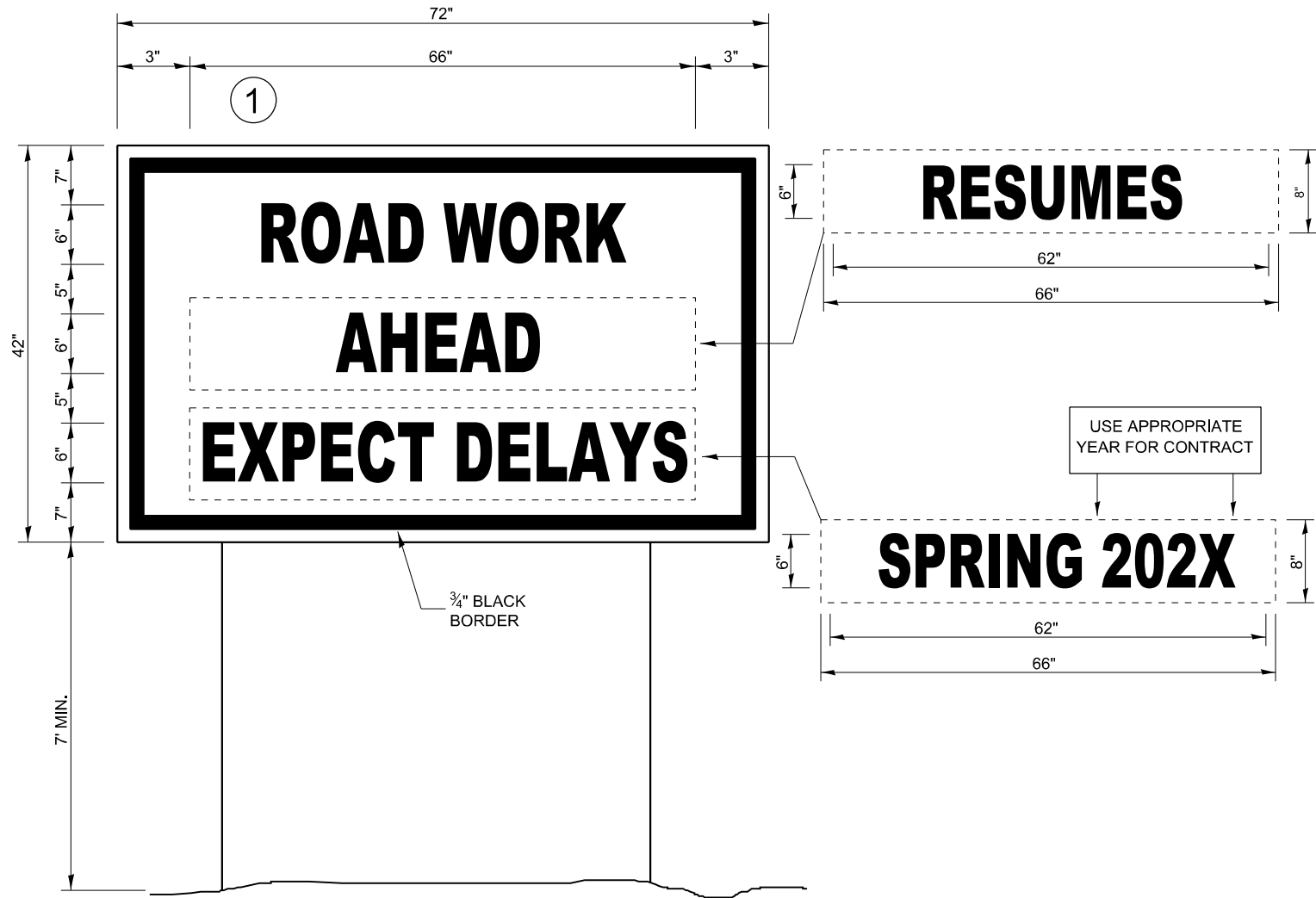
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TEMPORARY INFORMATION SIGNING

NOTES:

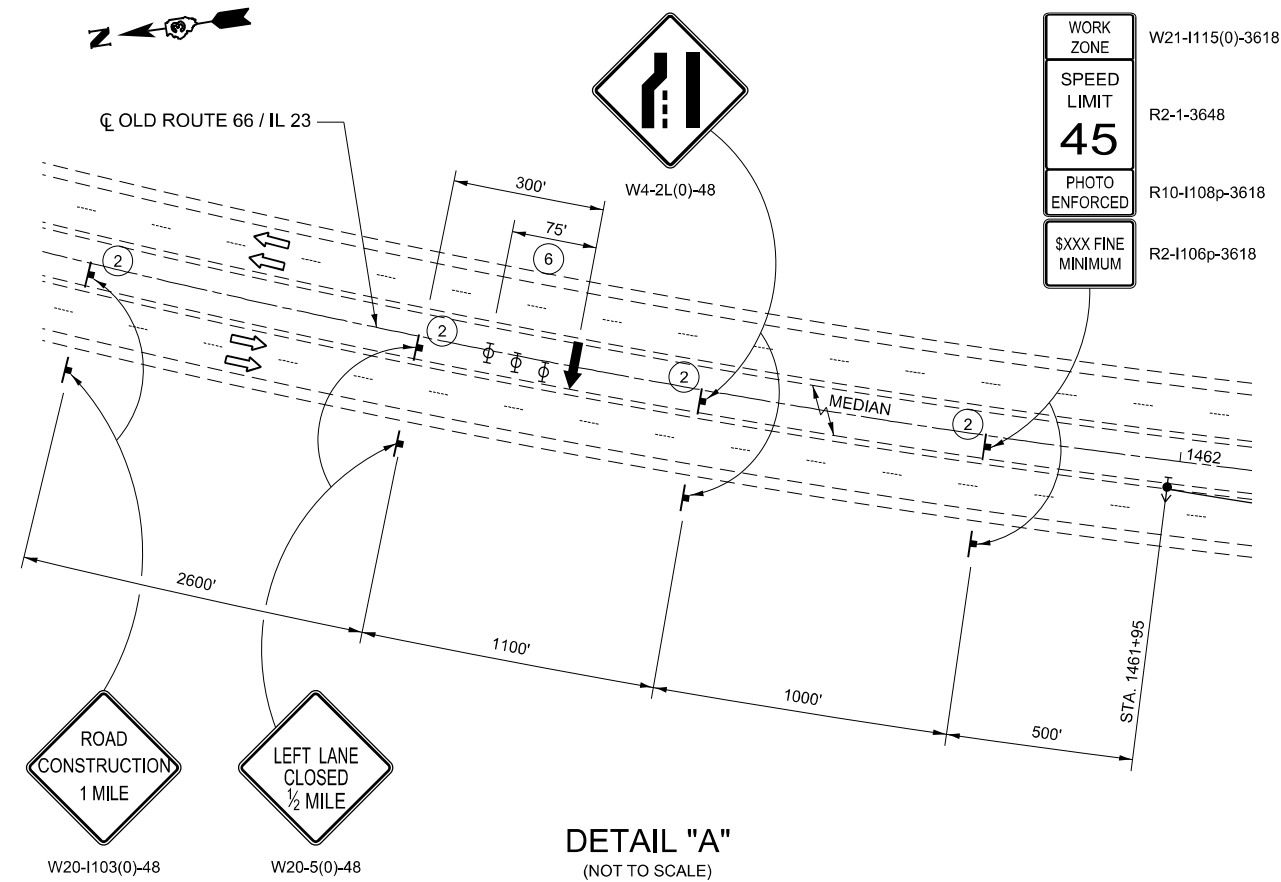
- USE 6" D BLACK LETTERING ON FLOURESENT ORANGE BACKGROUND.
- ERECT SIGNS AT LOCATIONS IN ADVANCE OF THE "ROAD CONSTRUCTION AHEAD" SIGNS AS DIRECTED BY THE ENGINEER.
- ERECT SIGN①WITH INSTALLED PANEL②A MINIMUM OF ONE WEEK PRIOR TO THE START OF THE LANE CLOSURE.
- REMOVE PANEL②ON THAT DATE.
- SEE SPECIAL PROVISION "TEMPORARY INFORMATION SIGNING" FOR ADDITIONAL INFORMATION.
- WILL BE PAID FOR PER SQ FT AS "TEMPORARY INFORMATION SIGNING". EACH SIGN = 21 SQ FT AND THE DATE PANEL②WILL NOT BE MEASURED SEPARATELY FOR PAYMENT.



WINTER SHUT DOWN SIGNING

LEGEND

- DIRECTION OF TRAFFIC
- WORK ZONE
- PERMANENT HMA SHOULDERS, 9"
- SIGN
- DRUM
- DIRECTION INDICATOR BARRICADE WITH STEADY BURN MONODIRECTIONAL LIGHT
- DRUM WITH STEADY BURN MONODIRECTIONAL LIGHT
- TEMPORARY CONCRETE BARRIER
- CRYSTAL, MONODIRECTIONAL GUARDRAIL/BARRIER WALL REFLECTOR
- IMPACT ATTENUATOR
- DRUM WITH MONODIRECTIONAL FLASHING LIGHT
- ARROW BOARD



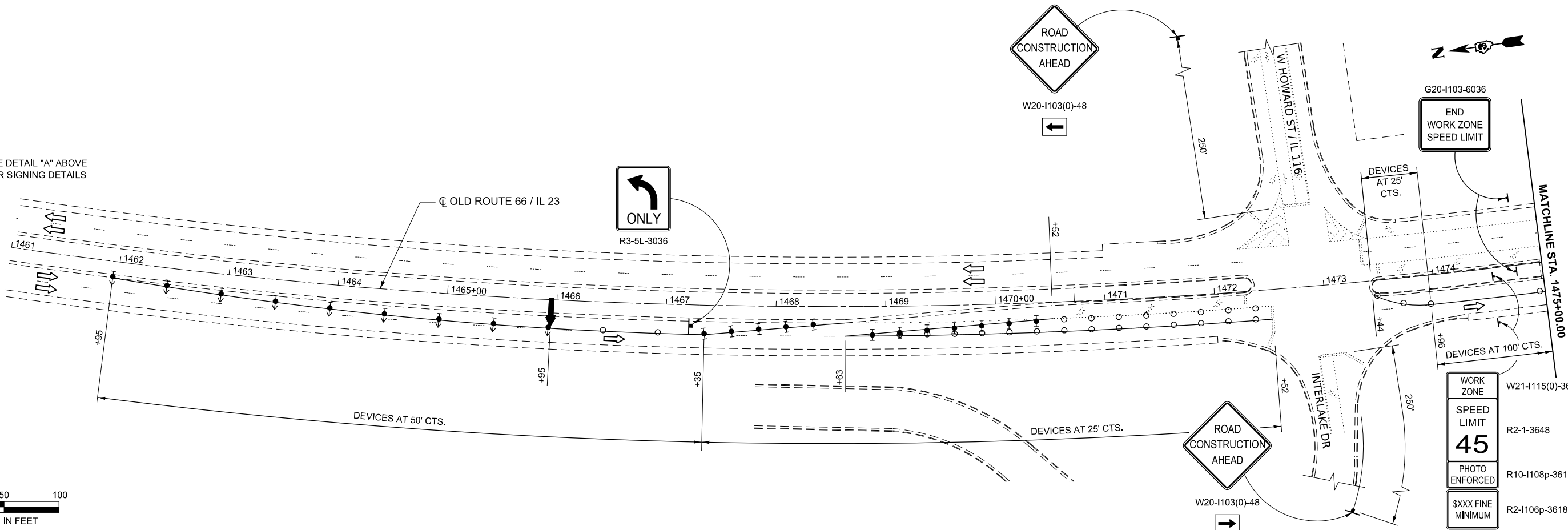
- 1 UNDIVIDED ROADWAY ONLY WITH LEFT LANE CLOSURE IN OPPOSITE DIRECTION
- 2 SIGN IN MEDIAN MAY BE OMITTED WHEN MEDIAN IS LESS THAN 10'.
- 3 TEMPORARY PAVEMENT MARKING TAPE SHALL BE PLACED THROUGHOUT THE TAPER AND ALONG-SIDE THE WORK AREA. THE RIGHT EDGE LINE SHALL BE WHITE AND THE LEFT EDGE SHALL BE YELLOW.
- 4 GUARDRAIL/BARRIER WALL REFLETORS AT 25'. MARKERS ON THE RIGHT SHALL BE CRYSTAL AND MARKERS ON LEFT SHALL BE AMBER. SEE STANDARDS 704001 AND 782006.
- 5 VERTICAL BARRICADES SHALL NOT BE USED IN LANE SHIFT TAPER.
- 6 THREE TYPE II BARRICADES, DRUMS, OR VERTICAL BARRICADES AT 25' CENTERS.

GENERAL NOTES

THIS STANDARD IS USED WHERE AT ANY TIME ANY VEHICLE, EQUIPMENT, WORKERS OR THEIR ACTIVITIES WILL ENCROACH ON THE PAVEMENT OR ON THE SHOULDER WITHIN 24" OF THE EDGE OF PAVEMENT FOR DAYLIGHT OPERATION EXCEEDING ONE DAY AND WHERE TEMPORARY CONCRETE BARRIER IS UTILIZED.

FOR ADDITIONAL TRAFFIC CONTROL DETAILS NOT SHOWN, SEE HIGHWAY STANDARD 701423.

SEE DETAIL "A" ABOVE FOR SIGNING DETAILS



MODEL: Sheet
FILE NAME: I:\2022\22069.06 DOT D3 - PTB 205-023 - W06 - Livingston County 66P37\CADD\ata\CAD\Sheets\ID366P37-sh-MOT-Stage1-1.dgn



USER NAME =	msulheard	DESIGNED -	JS	REVISED -	
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PLOT DATE =	12/20/2024	DATE -	9/24/24	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

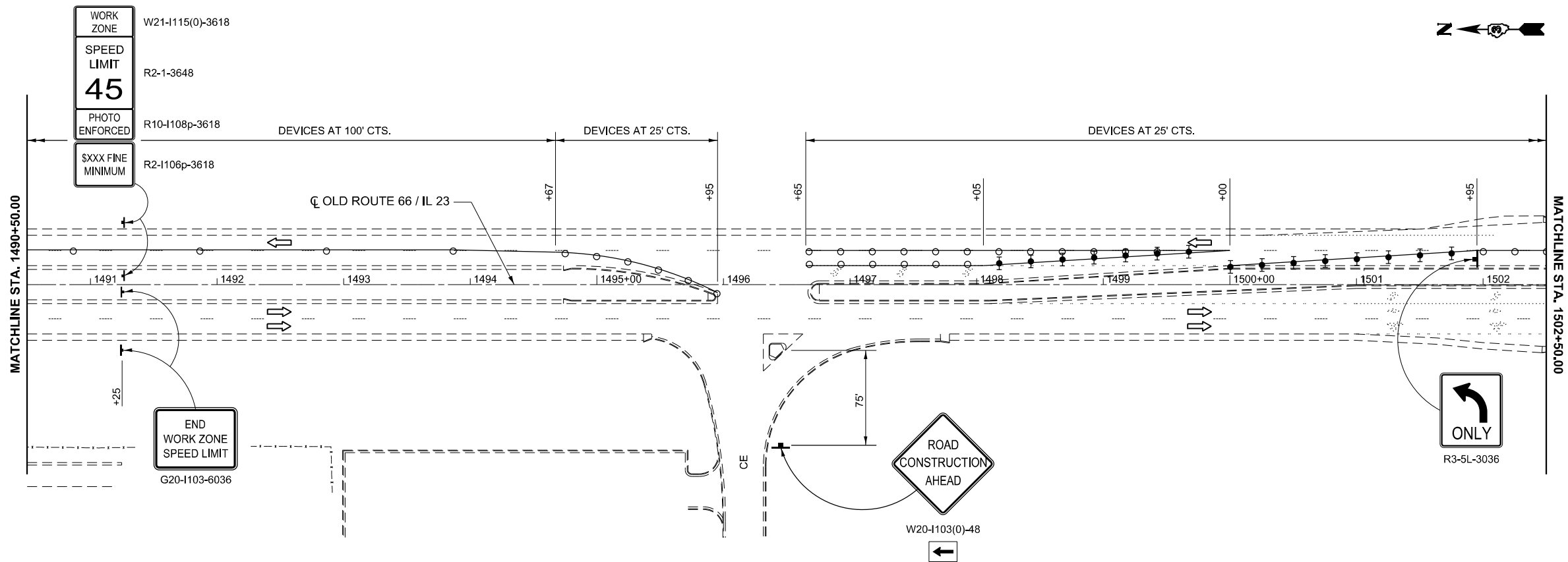
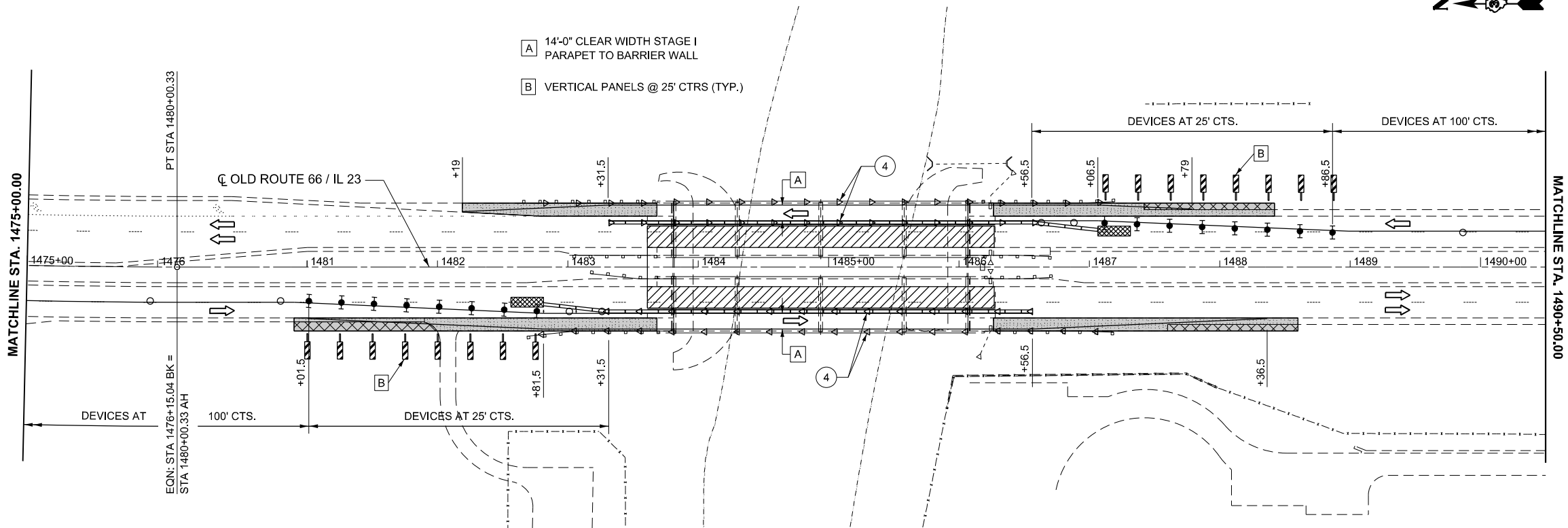
MAINTENANCE OF TRAFFIC - STAGE I
TRAFFIC CONTROL AND PROTECTION STANDARD 701423 SPECIAL

SCALE: SHEET 3 OF 9 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
677	(11-X-1-BR-1, 11-X-1-BR)BRR	LIVINGSTON	32	11
CONTRACT NO. 66P37				
ILLINOIS FED. AID PROJECT				

LEGEND

- ➡ DIRECTION OF TRAFFIC
- ▨ WORK ZONE
- PERMANENT HMA SHOULDERS, 9"
- 🚧 SIGN
- DRUM
- ➡ DIRECTION INDICATOR BARRICADE WITH STEADY BURN MONODIRECTIONAL LIGHT
- 🚧 DRUM WITH STEADY BURN MONODIRECTIONAL LIGHT
- TEMPORARY CONCRETE BARRIER
- △ CRYSTAL, MONODIRECTIONAL GUARDRAIL/BARRIER WALL REFLECTOR
- ▨ IMPACT ATTENUATOR
- 🚧 DRUM WITH MONODIRECTIONAL FLASHING LIGHT
- ➡ ARROW BOARD
- ▨ VERTICAL PANEL



MODEL: Sheet
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USER NAME = msulheard
PLOT DATE = 12/20/2024

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DATE - 11/08/24

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

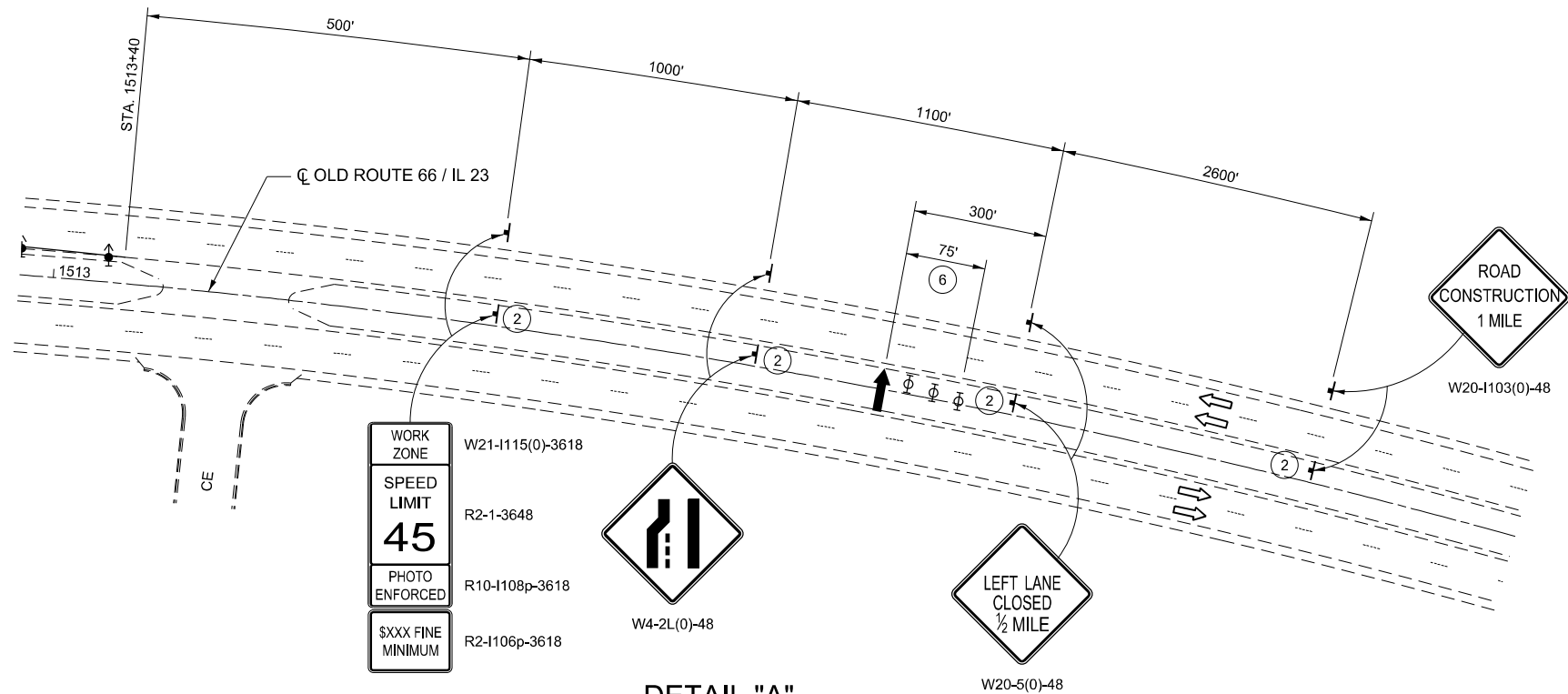
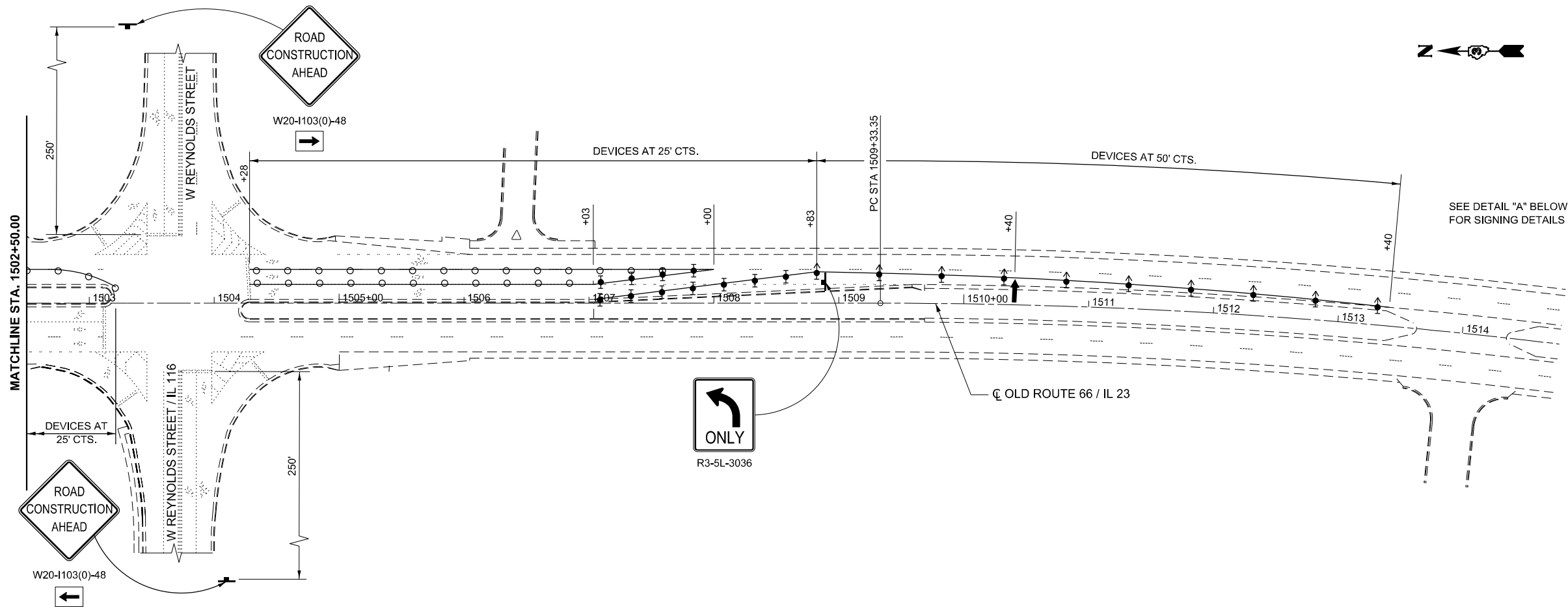
MAINTENANCE OF TRAFFIC - STAGE I
TRAFFIC CONTROL AND PROTECTION STANDARD 701423 SPECIAL

SCALE: SHEET 4 OF 9 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
677	(11-X-1-BR-1, 11-X-1-BR)BRR	LIVINGSTON	32	12
CONTRACT NO. 66P37				
ILLINOIS FED. AID PROJECT				

LEGEND

- ➔ DIRECTION OF TRAFFIC
- ▨ WORK ZONE
- PERMANENT HMA SHOULDERS, 9"
- ⊢ SIGN
- DRUM
- ⬆ DIRECTION INDICATOR BARRICADE WITH STEADY BURN MONODIRECTIONAL LIGHT
- ⬆ DRUM WITH STEADY BURN MONODIRECTIONAL LIGHT
- TEMPORARY CONCRETE BARRIER
- ◁ CRYSTAL, MONODIRECTIONAL GUARDRAIL/BARRIER WALL REFLECTOR
- ▤ IMPACT ATTENUATOR
- ⊕ DRUM WITH MONODIRECTIONAL FLASHING LIGHT
- ↑ ARROW BOARD



DETAIL "A"
(NOT TO SCALE)



MODEL: Sheet
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USER NAME = msulheard
PLOT DATE = 12/26/2024

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REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

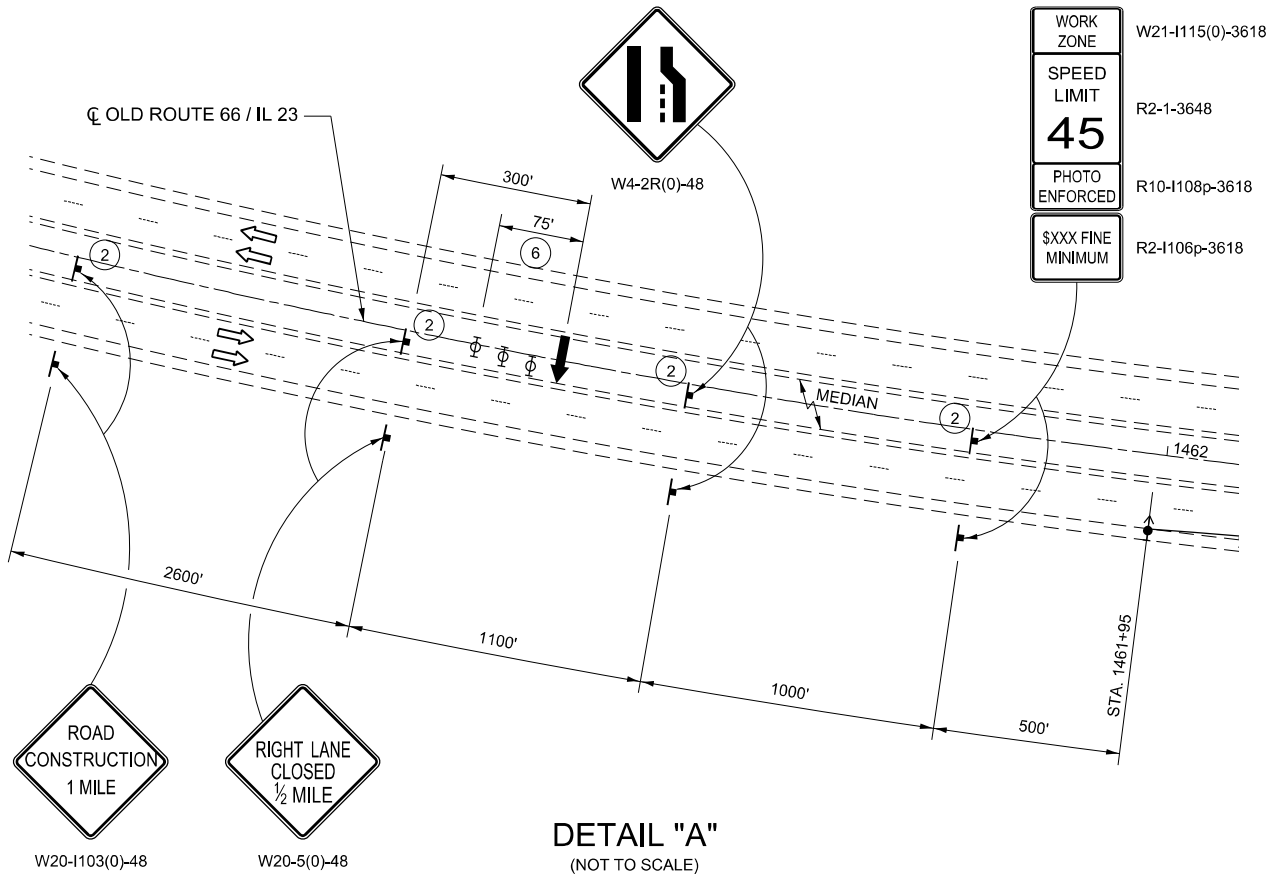
MAINTENANCE OF TRAFFIC - STAGE I
TRAFFIC CONTROL AND PROTECTION STANDARD 701423 SPECIAL

SCALE: SHEET 5 OF 9 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
677	(11-X-1-BR-1, 11-X-1-BR)BRR	LIVINGSTON	32	13
CONTRACT NO. 66P37				
ILLINOIS FED. AID PROJECT				

LEGEND

- DIRECTION OF TRAFFIC
- WORK ZONE
- PERMANENT HMA SHOULDERS, 9"
- SIGN
- DRUM
- DIRECTION INDICATOR BARRICADE WITH STEADY BURN MONODIRECTIONAL LIGHT
- DRUM WITH STEADY BURN MONODIRECTIONAL LIGHT
- TEMPORARY CONCRETE BARRIER
- CRYSTAL, MONODIRECTIONAL GUARDRAIL/BARRIER WALL REFLECTOR
- IMPACT ATTENUATOR
- DRUM WITH MONODIRECTIONAL FLASHING LIGHT
- ARROW BOARD

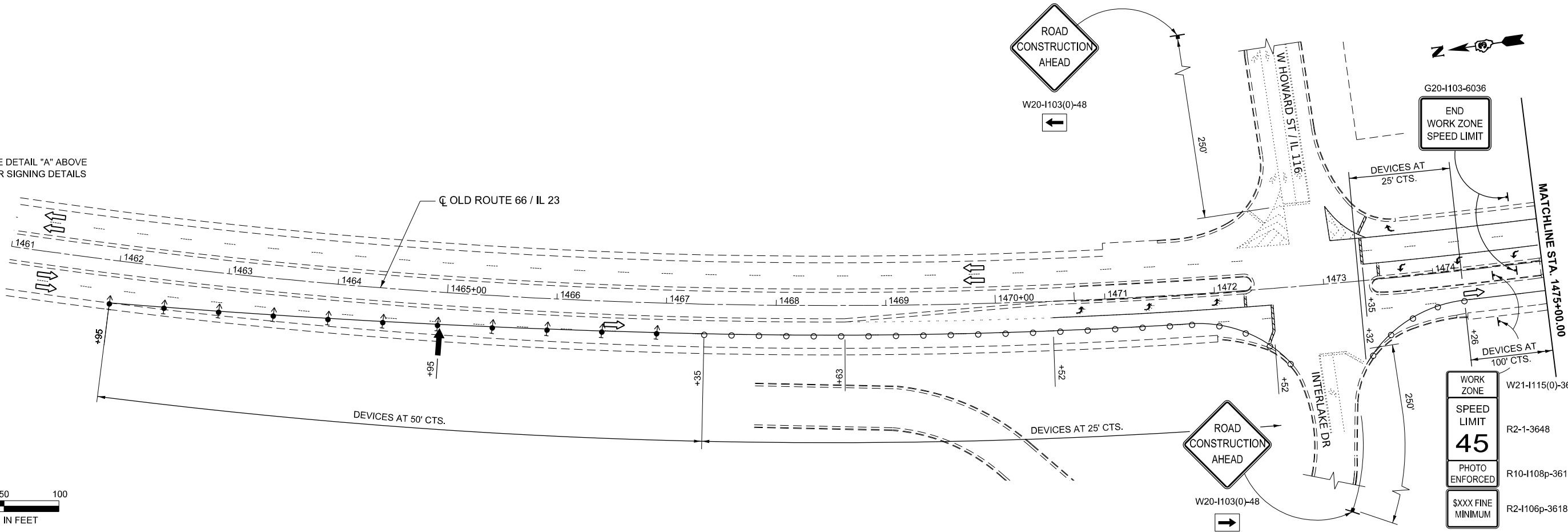


GENERAL NOTES

THIS STANDARD IS USED WHERE AT ANY TIME ANY VEHICLE, EQUIPMENT, WORKERS OR THEIR ACTIVITIES WILL ENCROACH ON THE PAVEMENT OR ON THE SHOULDER WITHIN 24" OF THE EDGE OF PAVEMENT FOR DAYLIGHT OPERATION EXCEEDING ONE DAY AND WHERE TEMPORARY CONCRETE BARRIER IS UTILIZED.

FOR ADDITIONAL TRAFFIC CONTROL DETAILS NOT SHOWN, SEE HIGHWAY STANDARD 701423.

SEE DETAIL "A" ABOVE FOR SIGNING DETAILS



STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

MAINTENANCE OF TRAFFIC - STAGE II
TRAFFIC CONTROL AND PROTECTION STANDARD 701423 SPECIAL

SCALE: SHEET 6 OF 9 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
677	(11-X-1-BR-1, 11-X-1-BR)BRR	LIVINGSTON	32	14
CONTRACT NO. 66P37				

ILLINOIS FED. AID PROJECT

MODEL: Sheet
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KUHN & TRELLO
CONSULTING ENGINEERS
A Limited Liability Company
109 N. 7th Street, 3rd Floor
Springfield, IL 62701
Phone: 217-678-0844
Professional Design Firm No. 184-006556

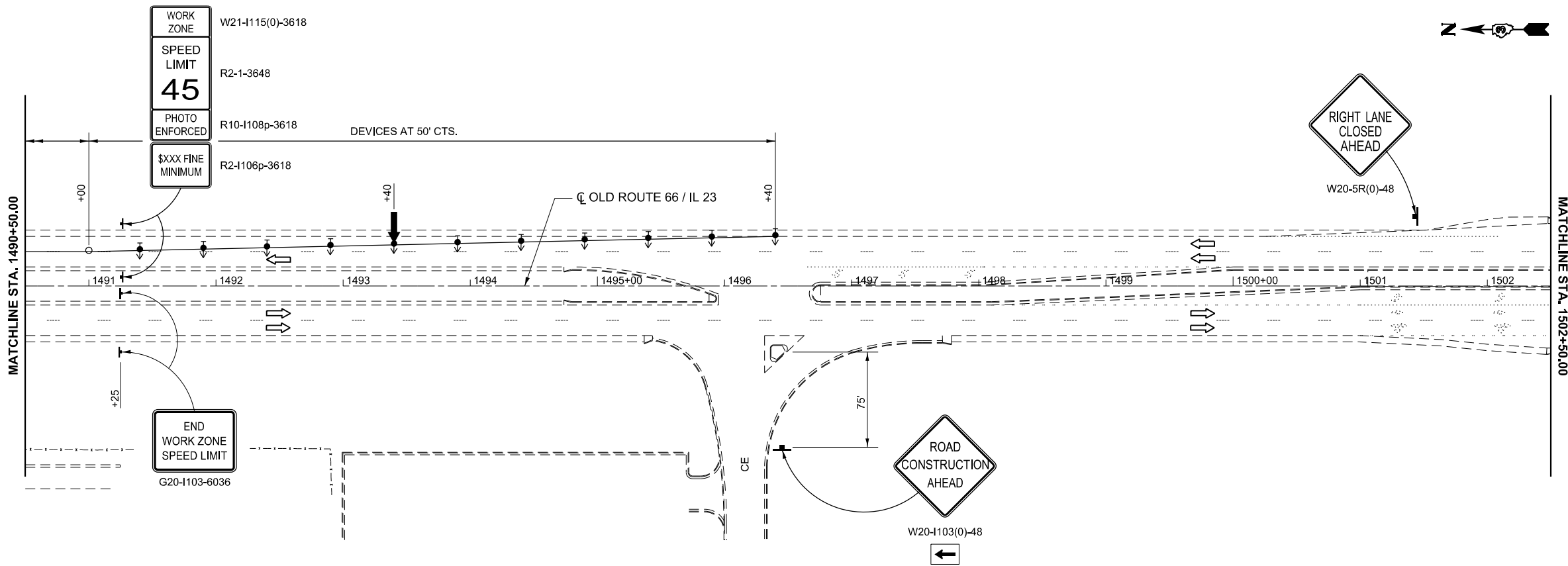
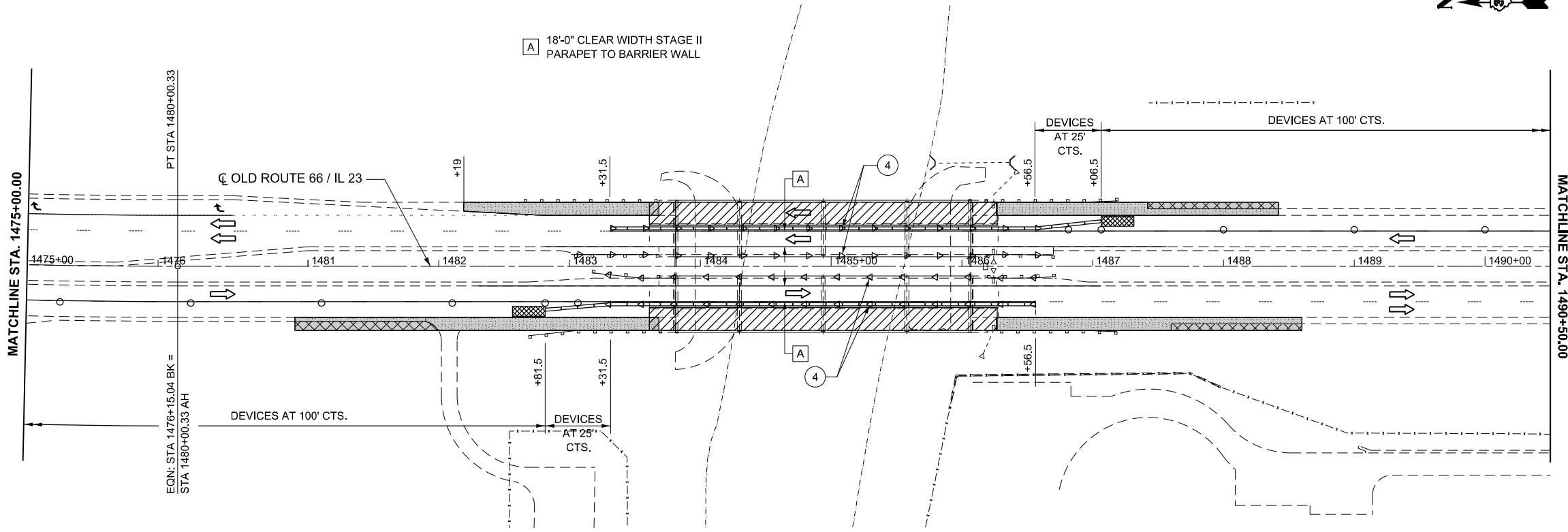
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PLOT DATE = 12/20/2024

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CHECKED - JS
DATE - 9/24/24

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LEGEND

- DIRECTION OF TRAFFIC
- WORK ZONE
- PERMANENT HMA SHOULDERS, 9"
- SIGN
- DRUM
- DIRECTION INDICATOR BARRICADE WITH STEADY BURN MONODIRECTIONAL LIGHT
- DRUM WITH STEADY BURN MONODIRECTIONAL LIGHT
- TEMPORARY CONCRETE BARRIER
- CRYSTAL, MONODIRECTIONAL GUARDRAIL/BARRIER WALL REFLECTOR
- IMPACT ATTENUATOR
- DRUM WITH MONODIRECTIONAL FLASHING LIGHT
- ARROW BOARD



MODEL: Sheet
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109 N. 7th Street, 3rd Floor
Springfield, IL 62701
Phone: 217-678-0844
Professional Design Firm No. 184-006556

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PLOT DATE = 12/20/2024	DATE - 11/08/24	REVISED -

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DATE - 11/08/24	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

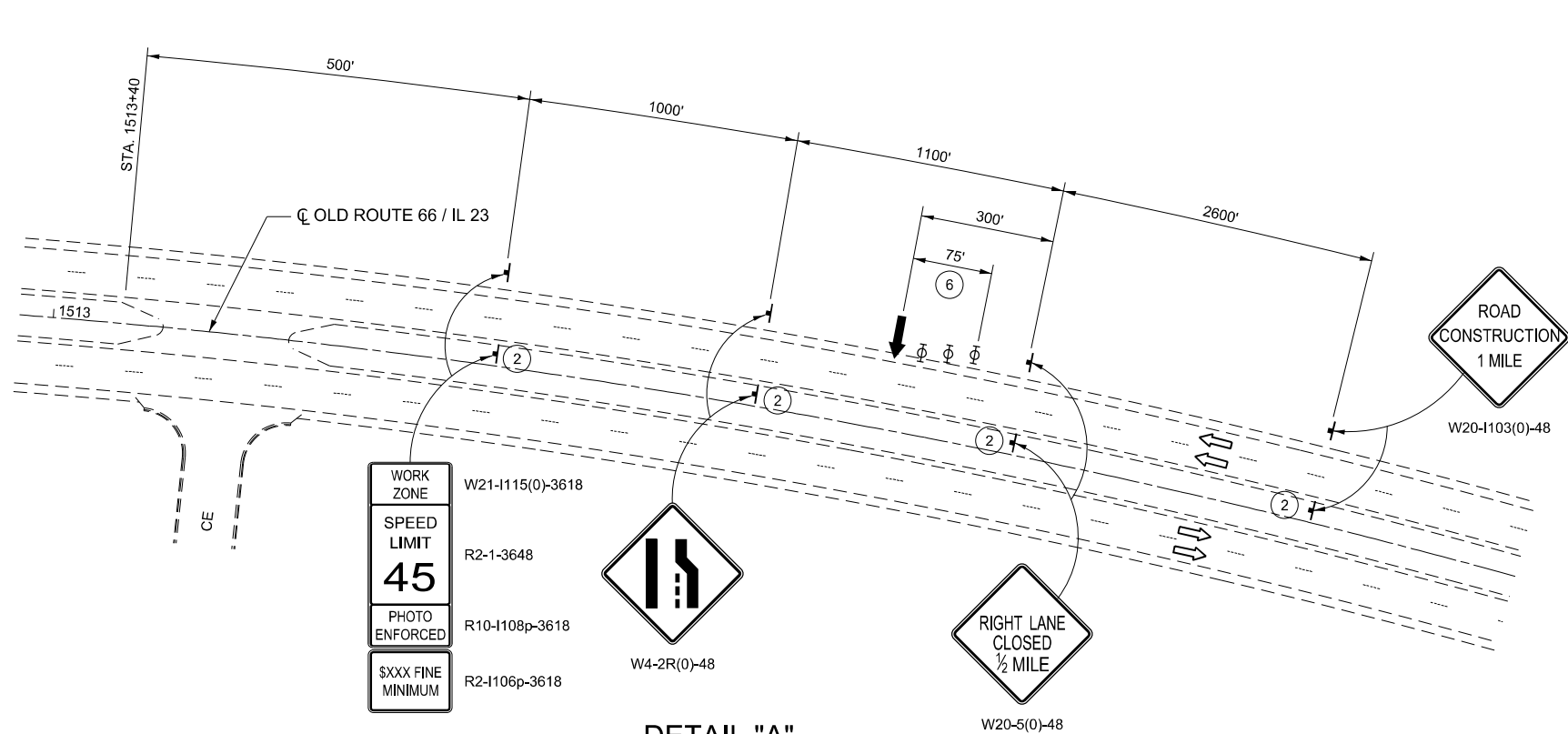
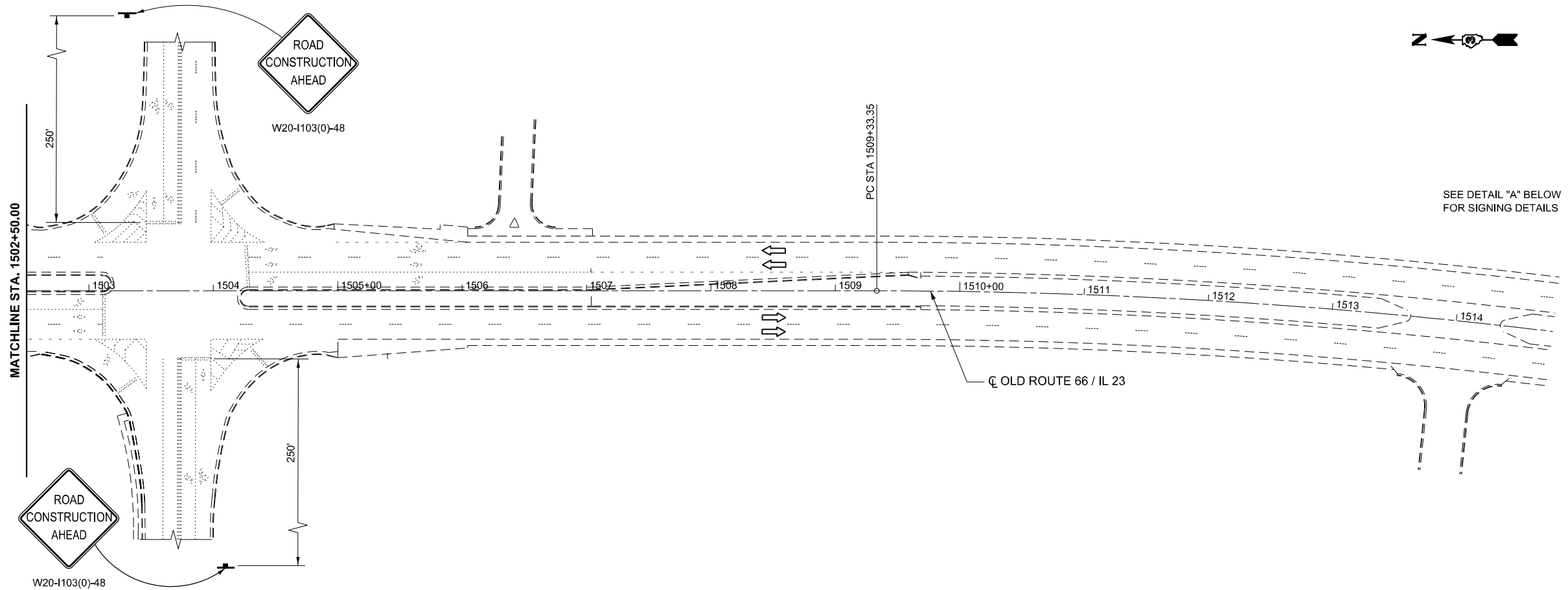
MAINTENANCE OF TRAFFIC - STAGE II
TRAFFIC CONTROL AND PROTECTION STANDARD 701423 SPECIAL

SCALE: SHEET 7 OF 9 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
677	(11-X-1-BR-1, 11-X-1-BR)BRR	LIVINGSTON	32	15
CONTRACT NO. 66P37				
ILLINOIS FED. AID PROJECT				

LEGEND

- ➔ DIRECTION OF TRAFFIC
- ▨ WORK ZONE
- PERMANENT HMA SHOULDERS, 9"
- ⌚ SIGN
- DRUM
- ⬆ DIRECTION INDICATOR BARRICADE WITH STEADY BURN MONODIRECTIONAL LIGHT
- ⌚ DRUM WITH STEADY BURN MONODIRECTIONAL LIGHT
- ▬ TEMPORARY CONCRETE BARRIER
- ◁ CRYSTAL, MONODIRECTIONAL GUARDRAIL/BARRIER WALL REFLECTOR
- ▨ IMPACT ATTENUATOR
- ⌚ DRUM WITH MONODIRECTIONAL FLASHING LIGHT
- ➡ ARROW BOARD



DETAIL "A"
(NOT TO SCALE)



MODEL: Sheet
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CONSULTING ENGINEERS
A Limited Liability Company
109 N. 7th Street, 3rd Floor
Springfield, IL 62701
Phone: 217-678-0844

USER NAME = msulheard
PLOT DATE = 12/20/2024

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DRAWN - MS
CHECKED - JS
DATE - 9/24/24

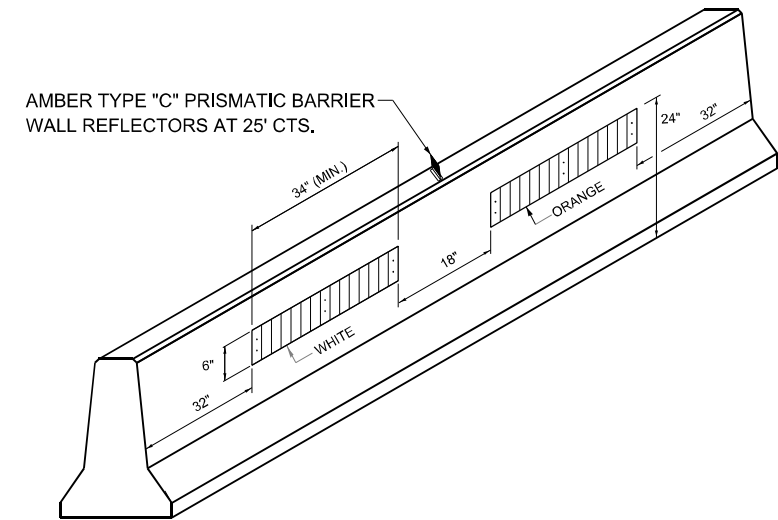
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

MAINTENANCE OF TRAFFIC - STAGE II
TRAFFIC CONTROL AND PROTECTION STANDARD 701423 SPECIAL

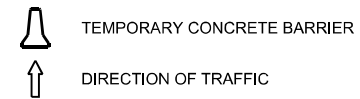
SCALE: SHEET 8 OF 9 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
677	(11-X-1-BR-1, 11-X-1-BR)BRR	LIVINGSTON	32	16
CONTRACT NO. 66P37				
ILLINOIS FED. AID PROJECT				



LINEAR DELINEATOR PANELS FOR TEMPORARY CONCRETE BARRIER

LEGEND



NOTES

SEE TYPICAL SECTIONS FOR PAVEMENT DETAILS.

FOR MOT PRESTAGE, REFERENCE TRAFFIC CONTROL AND PROTECTION STANDARD 701421.08.

FOR MOT STAGE I AND STAGE II, REFERENCE TRAFFIC CONTROL STAGING DETAILS PLAN SHEETS (TRAFFIC CONTROL AND PROTECTION STANDARD 701423 SPECIAL).

PRE-STAGE CONSTRUCTION

1. REMOVE OUTSIDE SHOULDERS WITHIN RECONSTRUCTION LIMITS AS SHOWN ON PLANS.
2. CONSTRUCT PERMANENT HMA SHOULDER.

PRE-STAGE TRAFFIC

PROVIDE ONE TWELVE FOOT LANE THROUGH THE PROJECT LIMITS ON EXISTING NORTHBOUND AND SOUTHBOUND INNER LANES OF PAVEMENT AND EXISTING STRUCTURES.

STAGE I CONSTRUCTION

COMPLETE BRIDGE WORK ON INNER LANES OF STRUCTURES.

STAGE I TRAFFIC

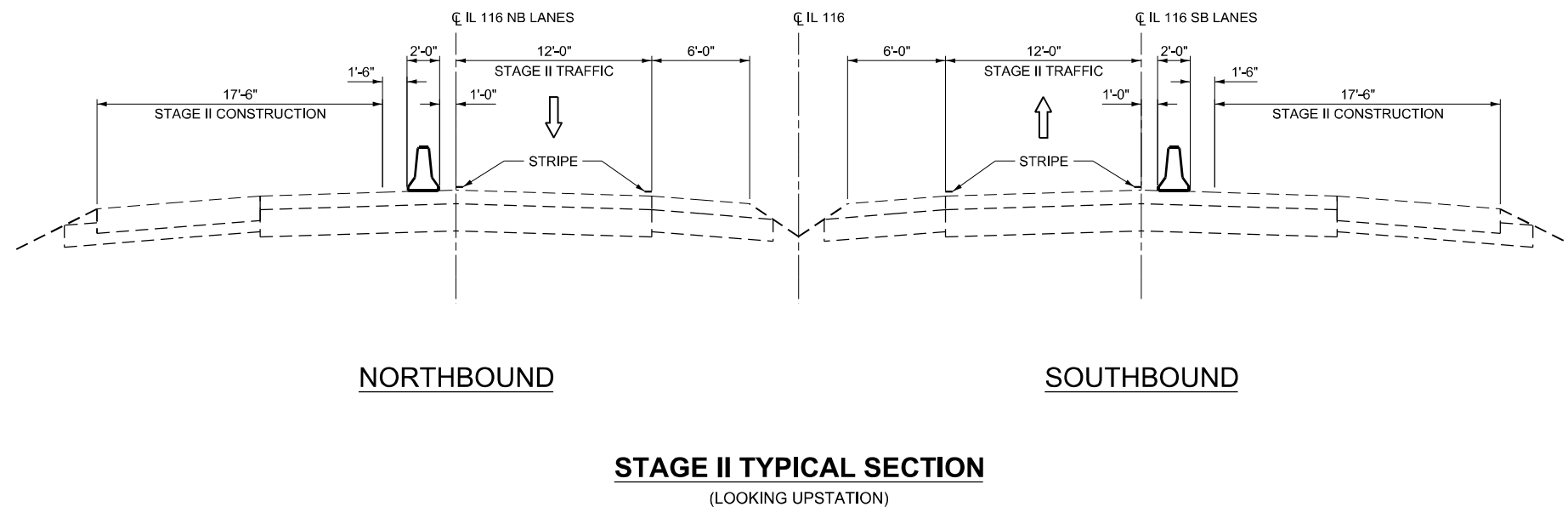
PROVIDE ONE TWELVE FOOT LANE THROUGH THE PROJECT LIMITS ON EXISTING NORTHBOUND AND SOUTHBOUND OUTER LANES OF PAVEMENT AND EXISTING STRUCTURES.

STAGE II CONSTRUCTION

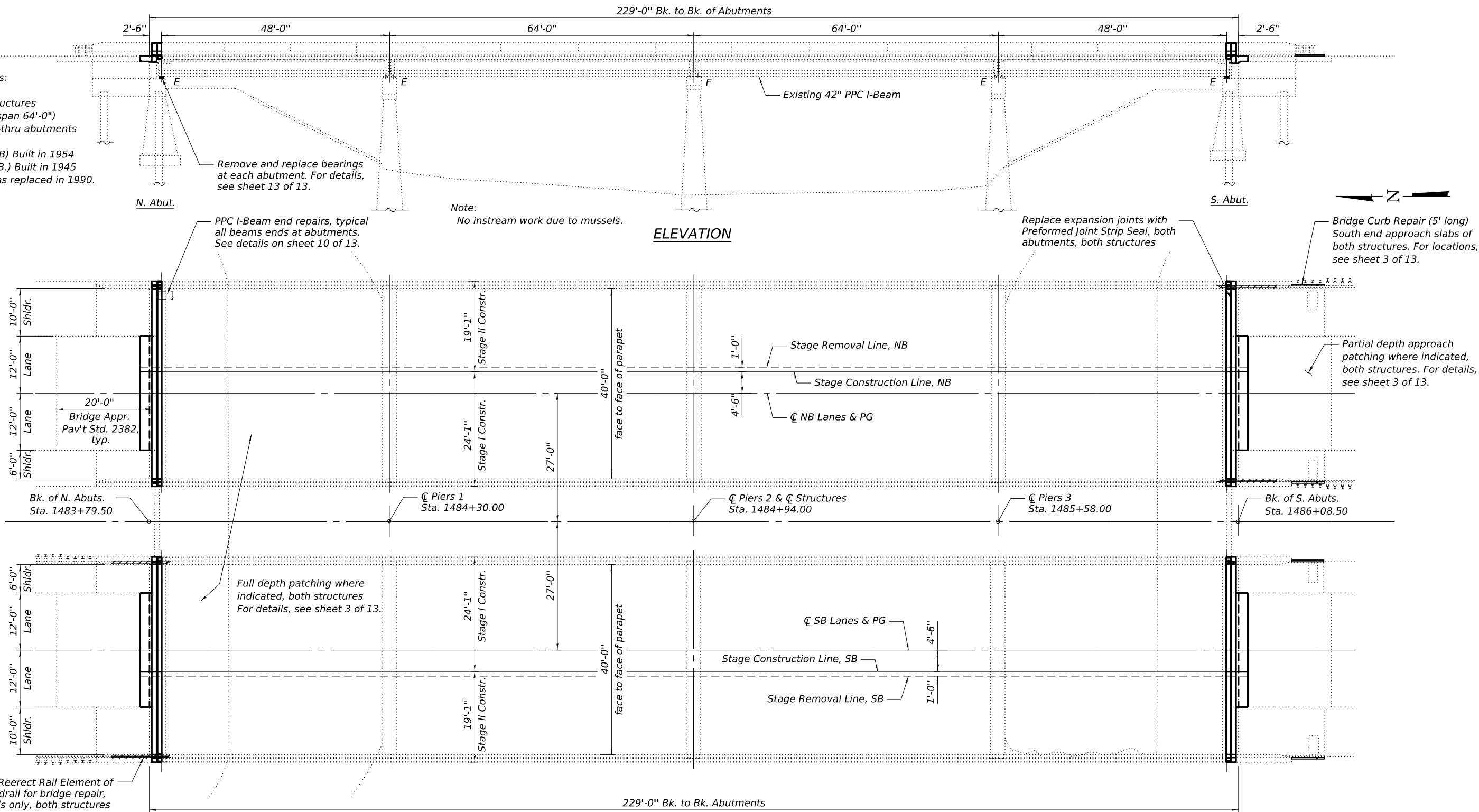
COMPLETE BRIDGE WORK ON OUTER LANES OF STRUCTURES.

STAGE II TRAFFIC

PROVIDE ONE TWELVE FOOT LANE THROUGH THE PROJECT LIMITS ON EXISTING NORTHBOUND AND SOUTHBOUND INNER LANES OF PAVEMENT AND STRUCTURES.



Existing Structures:
Sta. 1484+94.00
Dual four span structures
(2 span 48'-0"; 2 span 64'-0")
Substructure spill-thru abutments
& solid piers.
S.N. 053-0007 (N.B.) Built in 1954
S.N. 053-0008 (S.B.) Built in 1945
Superstructure was replaced in 1990.



PLAN

DESIGN STRESSES

FIELD UNITS

NEW CONSTRUCTION

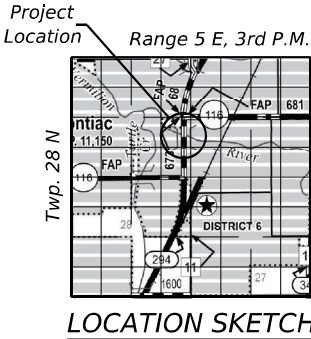
$f'_c = 4,000$ psi
 $f_y = 60,000$ psi (Reinforcement)
 $f_y = 50,000$ psi (Struct. Steel, M270 Grade 50, posts)
 $f_y = 36,000$ psi (Struct. Steel, M270 Grade 36, all other structural steel)

EXISTING CONSTRUCTION

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

PRECAST UNITS

$f'_c = 5,000$ psi
 $f'_{ci} = 4,000$ psi
 $f'_s = 270,000$ psi ($\frac{1}{2}$ " $\varnothing$ strands)
 $f_{si} = 189,000$ psi ($\frac{1}{2}$ " $\varnothing$ strands)



BRIDGE REPAIRS
F.A.P. 677 (IL 116)
OVER THE VERMILION RIVER
SEC. (11-X-1-BR-1, 11-X-1-BR)BRR
LIVINGSTON COUNTY
STATION 1484+94.00
S.N. 053-0007 (NB) & S.N. 053-0008 (SB)



Date: January 22, 2025
Expires: November 30, 2026

DESIGN SPECIFICATIONS

NEW CONSTRUCTION

2002 AASHTO Standard Specifications
for Highway Bridges, 17th Edition

EXISTING
1989 AASHTO

LOADING HS-20 (EXISTING)

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

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GENERAL PLAN & ELEVATION
S.N. 053-0007 N.B. & S.N. 053-0008 S.B.

SHEET 1 OF 13 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
677	(11-X-1-BR-1, 11-X-1-BR)BRR	LIVINGSTON	32	18
CONTRACT NO. 66P37				

ILLINOIS FED. AID PROJECT

MODEL: Sheet
FILE NAME: I:\2022\22069.06 IDOT D3 - PTB 205-023 - W06 - Livingston County 66P37\CADDData\CADsheets\0530007_0008-66P37-002-Gen-Data.dgn

INDEX OF SHEETS

- 1
- General Plan and Elevation
- 2
- General Data
- 3
- Deck/Approach Slab Repair Details
- 4
- "As-Built" Deck/Approach Slab Repair Details
- 5
- Temporary Concrete Barrier for Stage Construction
- 6
- Joint Removal Details at Abutments
- 7
- Joint Replacement Details at Abutments
- 8
- Preformed Joint Strip Seal
- 9
- Bar Splicer Assembly and Mechanical Splicer Details
- 10 - 12
- Beam Repair Details
- 13
- Bearing Details

SCOPE OF WORK

1.
- Remove and Reerect Rail Element of Existing Guardrail, attached to approach parapet to accommodate bridge repair.
2.
- Partial depth removal of deck end & 2'-6" on approaches at abutments including hatch block & parapets.
3.
- Perform deck, approach & curb repairs as shown.
4.
- Cast deck ends, parapets and approaches.
5.
- Place Preformed Joint Strip Seal at joints at abutments.
6.
- Repair concrete beam ends.
7.
- Replace bearings at abutments & side retainers & anchor bolts on inside of exterior beams at abutments.

GENERAL NOTES

Plan dimensions and details relative to 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 work; however, the Contractor will be paid for the quantity actually furnished at the unit price bid for the work.

All structural steel for expansion joints shall be AASHTO M 270 Grade 36, unless otherwise noted.

All new structural steel and bearing assemblies shall be hot-dip galvanized. See Special Provisions for "Hot Dip Galvanizing for Structural Steel".

Reinforcement bars designated (E) shall be epoxy coated.

Protective Coat shall be applied to all new concrete

Existing reinforcement bars extending into the removal area shall be cleaned, straightened, and incorporated into the new construction. Any reinforcement bars that are damaged during concrete removal shall be replaced with an approved bar splicer or anchorage system. Cost included with Concrete Removal.

Joint openings shall be adjusted according to Article 520.04 of the Standard Specifications when the deck is poured at an ambient temperature other than 50°F.

The Contractor shall use extreme care during concrete removal so as not to damage the PPC I-Beam.

The existing concrete surface shall be cleaned and prepared in accordance with the Special Provisions.

See Special Provisions for "FRP Strengthening for PPC I-Beam Repairs".

See Special Provisions for "Precast Prestressed Concrete I-Beam Repair".

Acrylic coating shall be placed over Fiber Wrap repairs. Two coats shall be applied. Quantity includes two coats.

TOTAL BILL OF MATERIAL

	ITEM	UNIT	TOTAL
	Concrete Removal	Cu. Yd.	33.8
	Concrete Superstructure	Cu. Yd.	34.0
	Protective Coat	Sq. Yd.	136
	Reinforcement Bars, Epoxy Coated	Pound	2320
	Bar Splicers	Each	48
	Preformed Joint Strip Seal	Foot	168
	Elastomeric Bearing Assembly, Type 1	Each	24
	Anchor Bolts, 1"	Each	8
	Remove and Reerect Rail Element of Existing Guardrail	Foot	50
	Bridge Curb or Hubguard Repair	Foot	20
*	Acrylic Coating	Sq. Yd.	27.8
*	Fiber Wrap	Sq. Ft.	169.2
	Approach Slab Repair (Partial Depth)	Sq. Yd.	25
*	Jack & Remove Existing Bearings	Each	24
*	Deck Slab Repair (Full Depth, Type I)	Sq. Yd.	2
*	Deck Slab Repair (Full Depth, Type II)	Sq. Yd.	10
*	Deck Slab Repair (Partial Depth)	Sq. Yd.	18
*	Precast Prestressed Concrete I-Beam Repair	Sq. Ft.	63.7

Special Provisions

KT

KUHN & TRELLO

CONSULTING ENGINEERS

A Limited Liability Company

199 N. 7th Street, 1st Floor

Springfield, IL 62701

Phone: 217-579-0044

Professional Design Firm No. 184-006516

USER NAME =

myoung

DESIGNED -

PDA

REVIS

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CHECKED -

MJT

REVIS

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PLOT SCALE =

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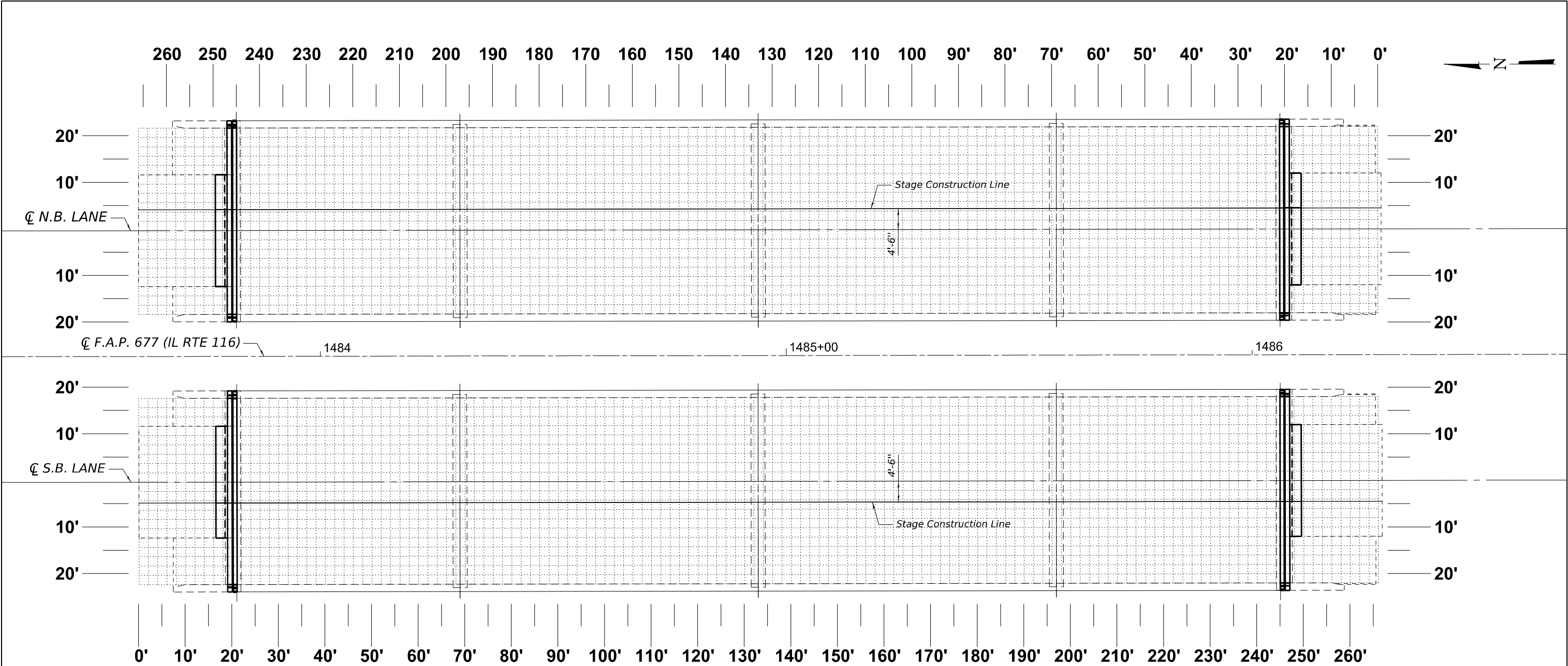
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GENERAL DATA
S.N. 053-0007 N.B. & S.N. 053-0008 S.B.

SHEET 2 OF 13 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
677	(11-X-1-BR-1, 11-X-1-BR)BRR	LIVINGSTON	32	19
CONTRACT NO. 66P37				
		ILLINOIS	FED. AID PROJECT	

MODEL: Sheet
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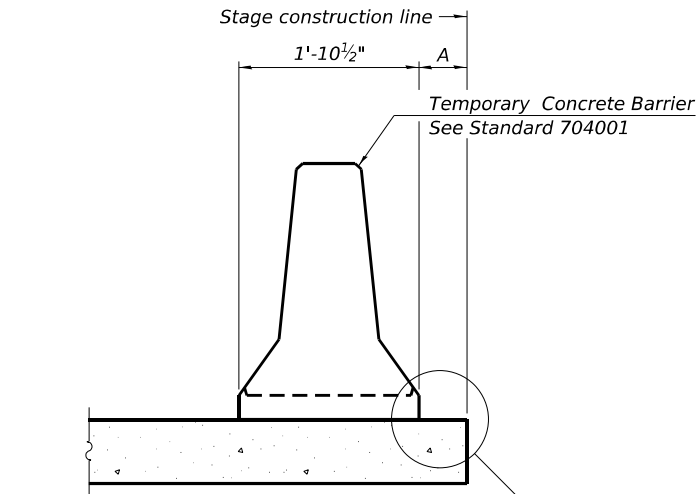
**"AS-BUILT" PLAN
DECK PATCHING**

LEGEND

-  Approach Slab Repair (Partial Depth)
-  Deck Slab Repair (Partial Depth)
-  Deck Slab Repair (Full Depth, Type I)
-  Deck Slab Repair (Full Depth, Type II)
-  2' x 2' Gridlines

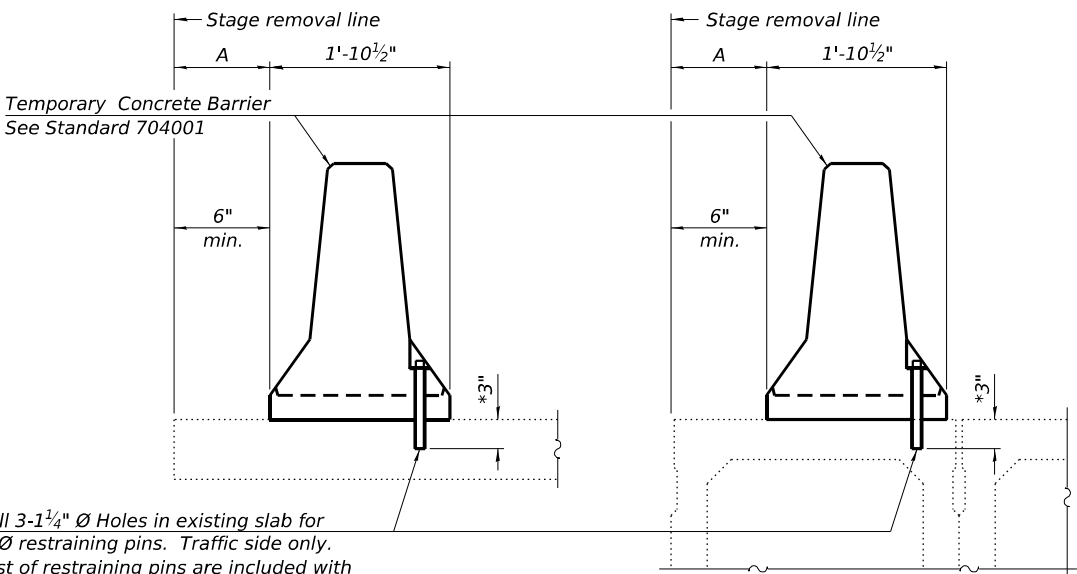
NOTE:
When all deck slab repairs have been completed, the Engineer shall record the actual deck slab repair locations and repair areas on this "As-Built" plan sheet. When all deck repairs have been shown on this detail, the "As-Built" deck slab repairs shall be submitted to the Bridge Office for their record. "See Commitments".

 KUHN & TRELLO CONSULTING ENGINEERS A Limited Liability Company 109 N. 7th Street, 3rd Floor Springfield, IL 62701 Phone: 217-679-0044 Professional Design Firm No. 184-006556	USER NAME = myoung		DESIGNED - PDA		REVISED -		STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	"AS-BUILT" DECK/APPROACH SLAB REPAIR DETAILS S.N. 053-0007 N.B. & S.N. 053-0008 S.B.					F.A.P. RTE.	SECTION		COUNTY	TOTAL SHEETS	SHEET NO.
	PLOT SCALE = \$SCALE\$		CHECKED - MJT		REVISED -								677	(11-X-1-BR-1, 11-X-1-BR)BRR		LIVINGSTON	32	21
	PLOT DATE = 11/14/2024		DRAWN - MMY		REVISED -			CONTRACT NO. 66P37										
			CHECKED - MJT		REVISED -													
								SHEET 4 OF 13 SHEETS										
							ILLINOIS FED. AID PROJECT											



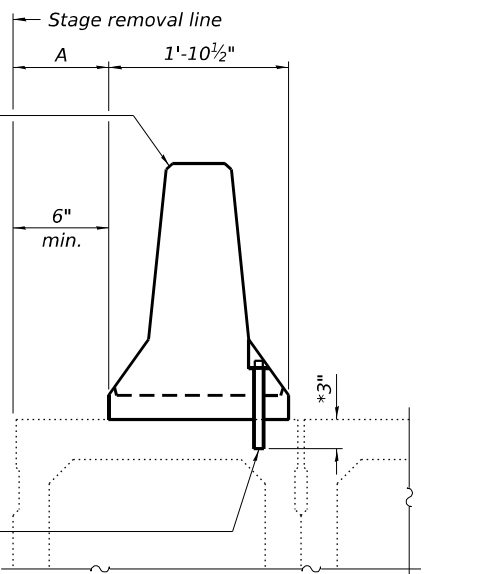
When "A" is 3'-1" or less, the temporary concrete barrier shall be restrained to the new slab according to Detail I, II or III. No restraint is required when "A" is greater than 3'-1".

NEW SLAB OR NEW DECK BEAM



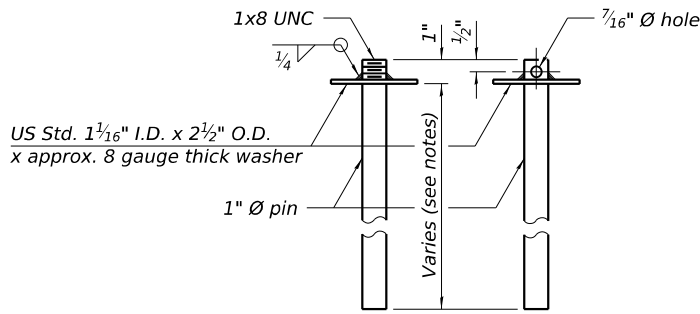
Drill 3-1 1/4" Ø Holes in existing slab for 1" Ø restraining pins. Traffic side only. Cost of restraining pins are included with Temporary Concrete Barrier. No restraint is required when "A" is greater than 3'-1".

EXISTING SLAB



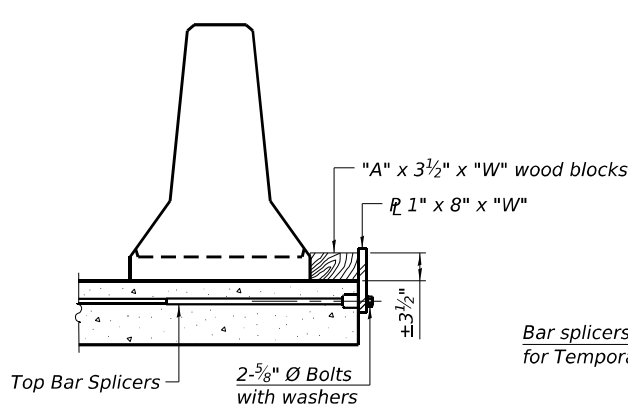
* When hot-mix asphalt wearing surface is present, embedment shall be 3" plus the wearing surface depth.

EXISTING DECK BEAM

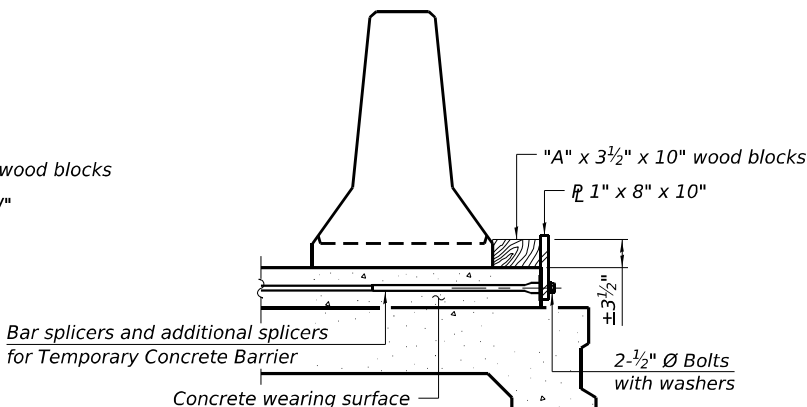


RESTRAINING PIN

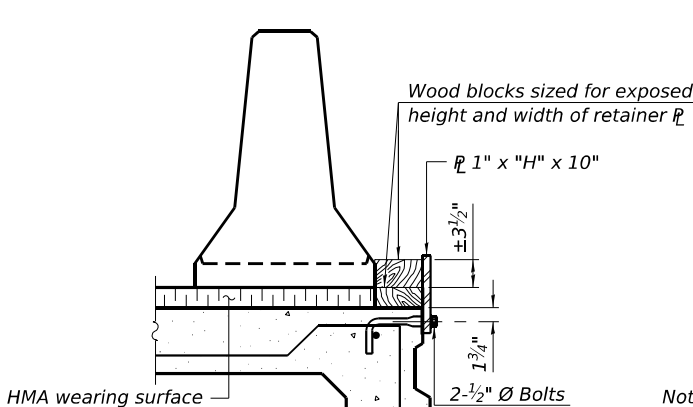
SECTIONS THRU SLAB OR DECK BEAM



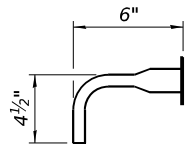
DETAIL I



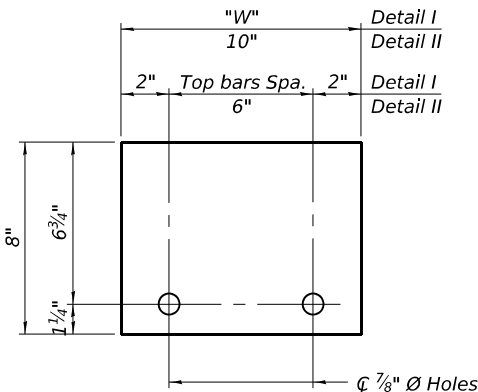
DETAIL II



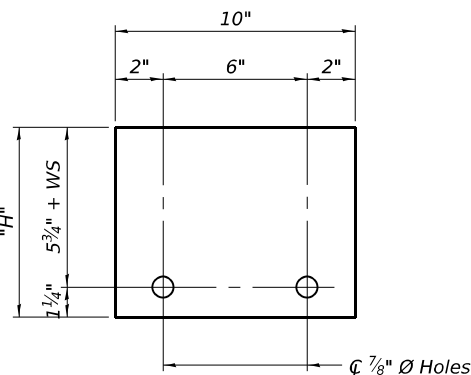
DETAIL III



BAR SPLICER FOR #4 BAR - DETAIL III



STEEL RETAINER R 1" x 8" x "W"
(Detail I and II)



STEEL RETAINER R 1" x "H" x 10"
(Detail III)

Notes:
Cost of retainer assembly is included with Temporary Concrete Barrier.
A retainer assembly shall be located at the approximate C of each temporary concrete barrier.
The retainer plate shall not be removed until the concrete on the adjacent stage is ready to be poured. For Detail III applications the retainer plate shall not be removed until just prior to placing the adjacent beam.
When the 'A' dimension is less than 1 1/2", the wood block shall be omitted and the barrier shall be placed in direct contact with the steel retainer plate. For deck beam applications the minimum required 'A' distance is 6" to accommodate the shear key clamping device.

Detail I - Installation for a new bridge deck or bridge slab.

Detail II - Installation for a new deck beam with an initial concrete wearing surface. Additional bar splicers shall be provided at 6'-0" centers and paired with the bar splicers of the concrete wearing surface reinforcement to accommodate the installation of the retainer assemblies. The cost of the additional bar splicers is included with the concrete wearing surface.

Detail III - Installation for a new deck beam with no initial wearing surface or with an initial hot-mix asphalt (HMA) wearing surface present. The deck beam directly beneath the temporary concrete barrier shall be fabricated with bar splicer inserts in the side of the beam, as detailed, to accommodate the installation of the retainer assemblies. A pair of bar splicers, 6" apart, shall be placed at 6'-0" centers along the length of the beam. The cost of the bar splicers is included with the deck beam.

RAILING CRITERIA

NCHRP 350 Test Level	3
Railing Weight (plf)	440

R-27

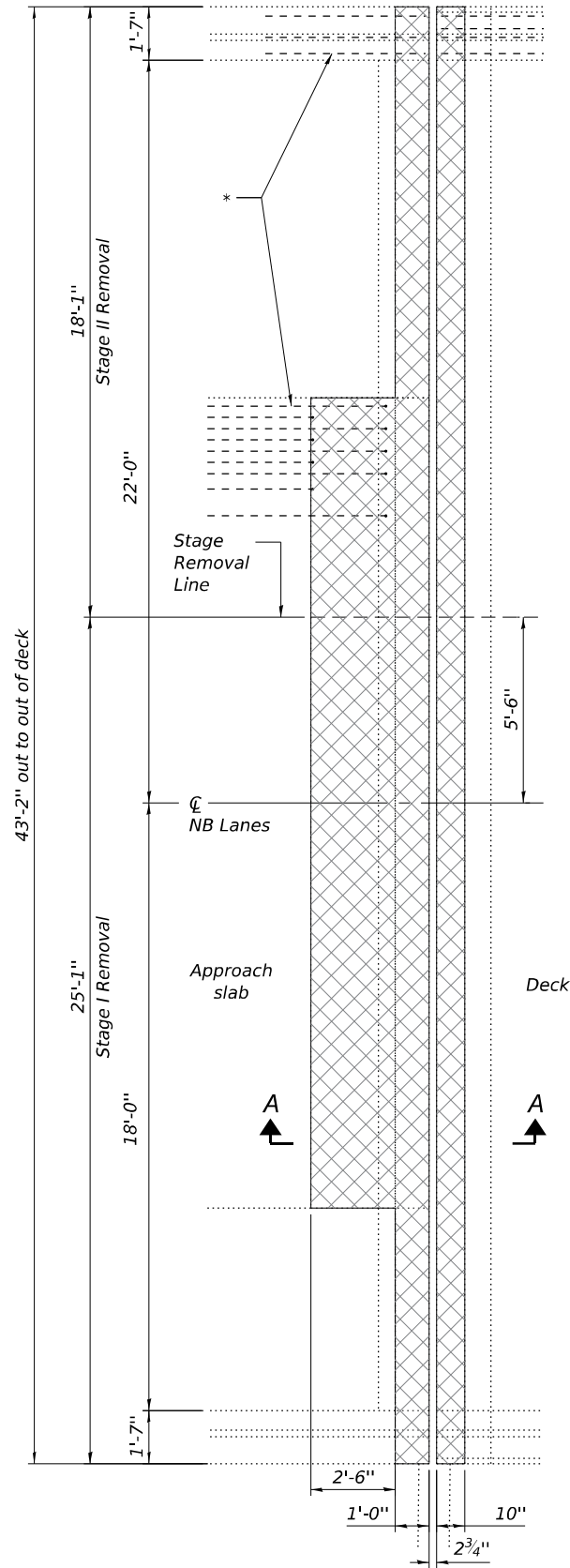
5-15-2023

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TEMPORARY CONCRETE BARRIER
S.N. 053-0007 N.B. & S.N. 053-0008 S.B.

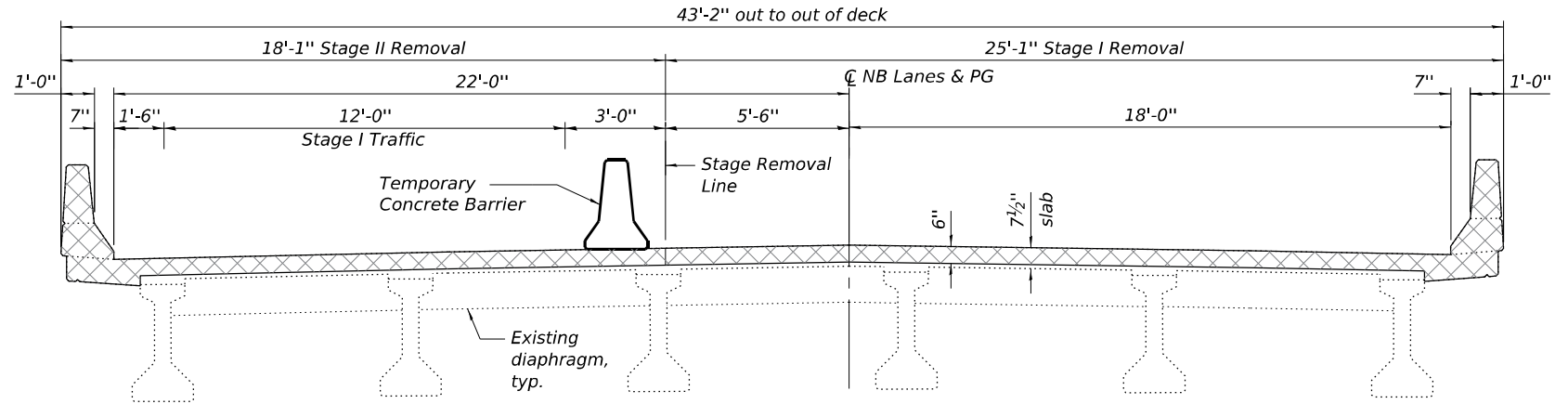
SHEET 5 OF 13 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
677	(11-X-1-BR-1, 11-X-1-BR)BRR	LIVINGSTON	32	22
CONTRACT NO. 66P37				
ILLINOIS FED. AID PROJECT				



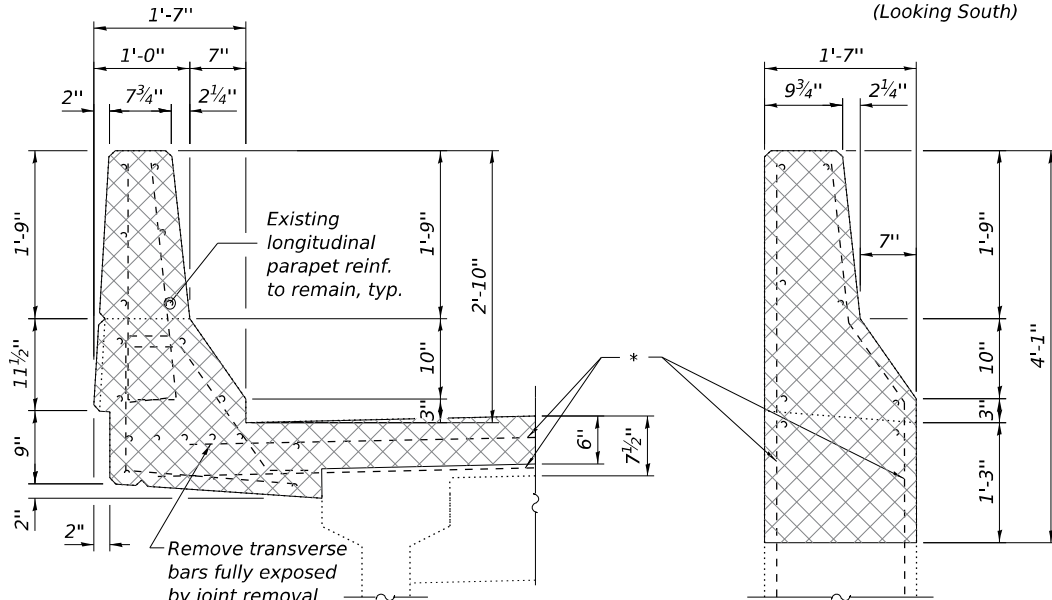
CONCRETE REMOVAL PLAN

(N. Abut. NB Lanes shown. All other abutments similar by rotation or opposite hand)



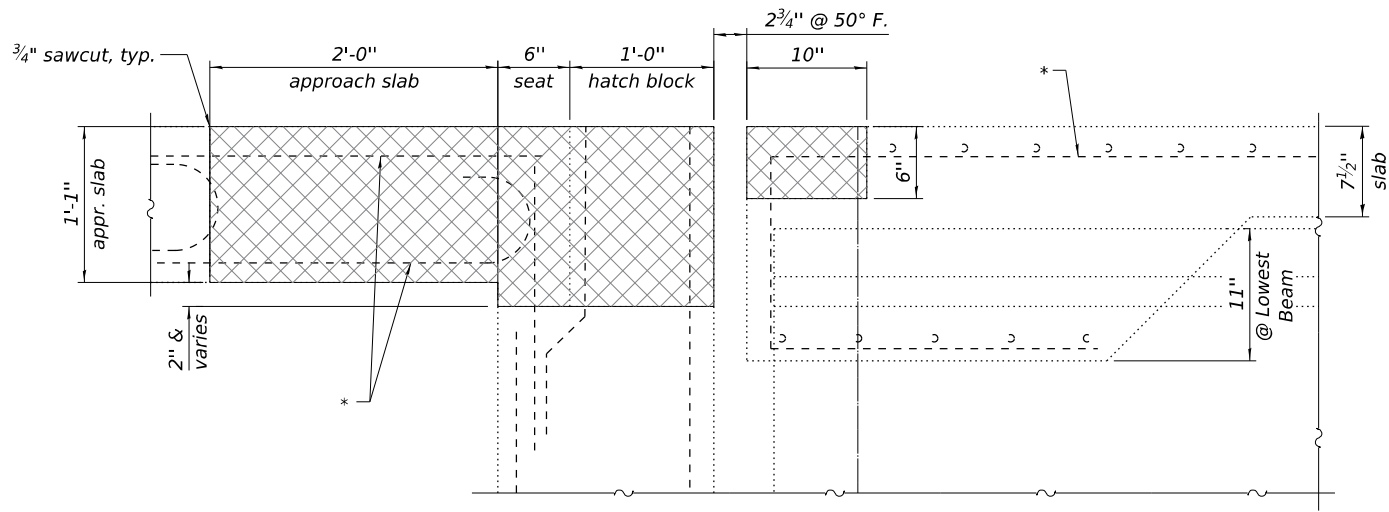
CROSS SECTION AT JOINT REPLACEMENT LOCATIONS

(Looking South)



SECTION THRU DECK

SECTION THRU APPROACH



SECTION A-A

* Existing reinforcement bars extending into the removal area shall be cleaned, straightened, and incorporated into the new construction. Any reinforcement bars that are damaged during concrete removal shall be replaced with an approved bar splicer or anchorage system. Cost included with Concrete Removal.

LEGEND

 Concrete Removal

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

JOINT REMOVAL DETAILS AT ABUTMENTS
S.N. 053-0007 N.B. & S.N. 053-0008 S.B.

SHEET 6 OF 13 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
677	(11-X-1-BR-1, 11-X-1-BR)BRR	LIVINGSTON	32	23
CONTRACT NO. 66P37				
ILLINOIS FED. AID PROJECT				

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		CHECKED -	MJT	REVISED -	
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PLOT DATE =	1/23/2025	CHECKED -	MJT	REVISED -	

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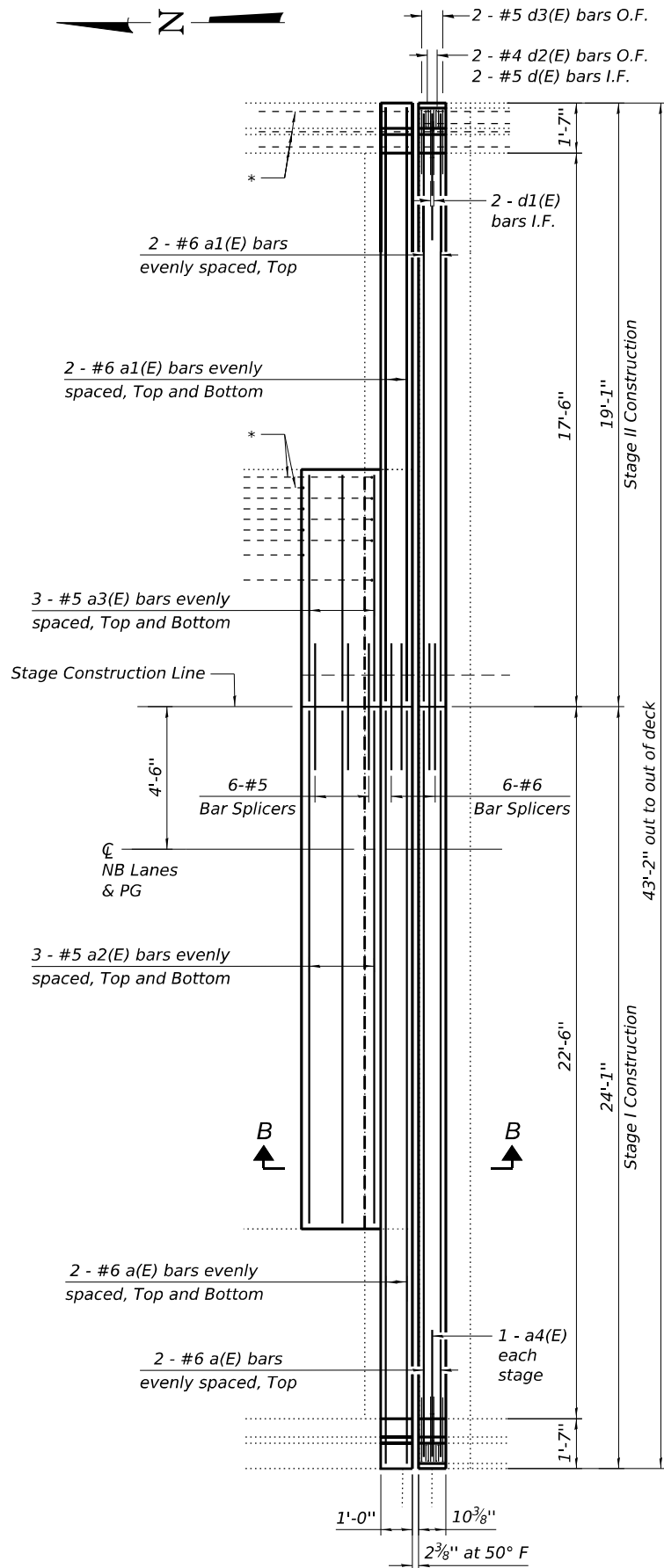
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PLOT DATE =	1/22/2025	CHECKED -	MJT	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

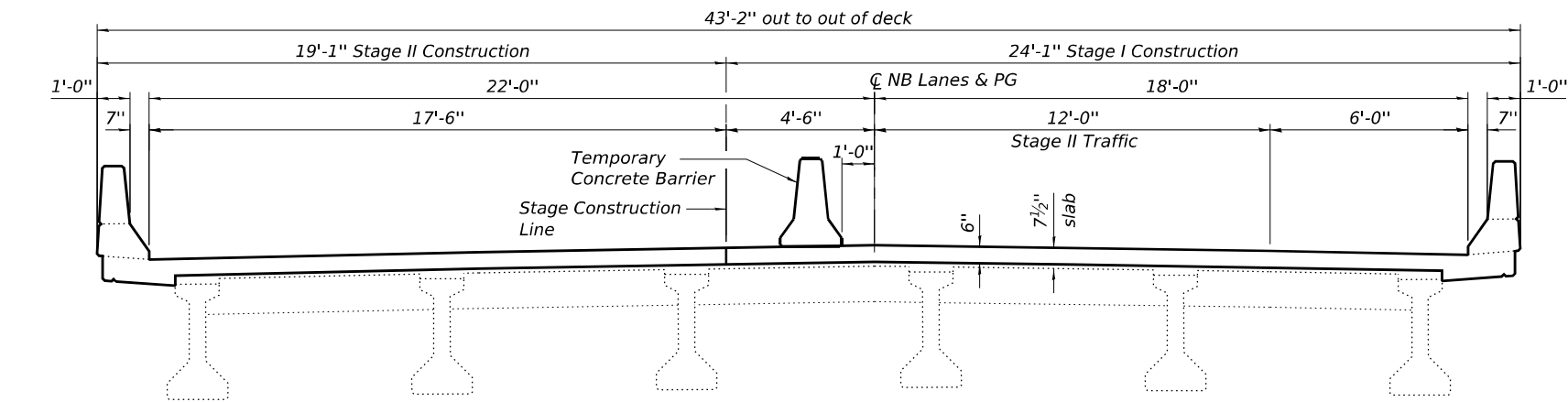
JOINT REPLACEMENT DETAILS AT ABUTMENTS
S.N. 053-0007 N.B. & S.N. 053-0008 S.B.

SHEET 7 OF 13 SHEETS

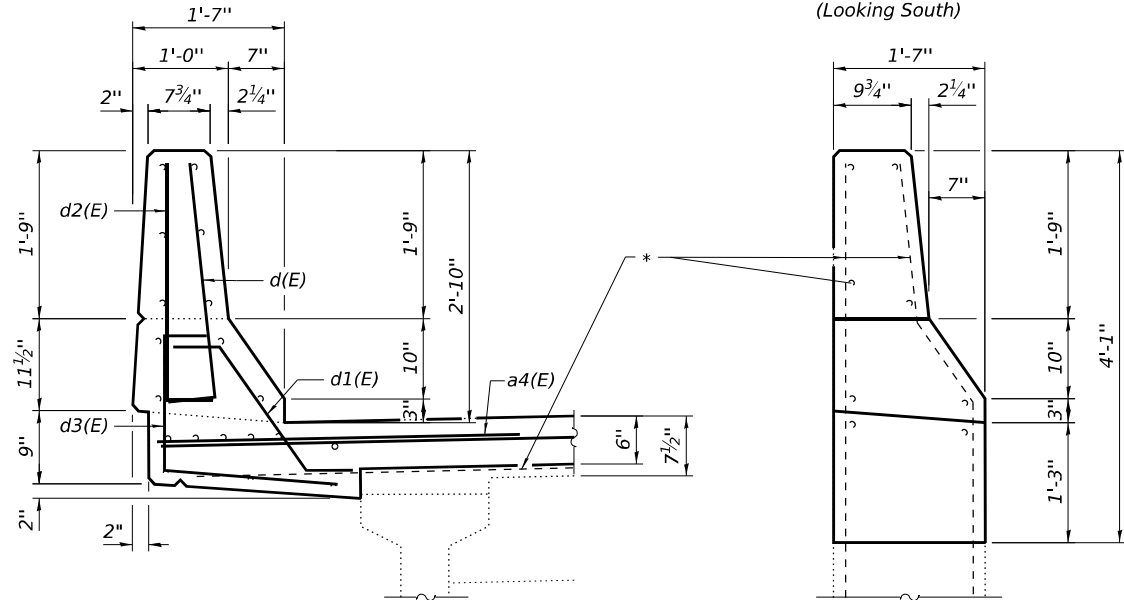
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CONTRACT NO. 66P37				
ILLINOIS FED. AID PROJECT				



CONCRETE REPLACEMENT PLAN
(N. Abut. NB Lanes shown. All other abutments similar by rotation or opposite hand)

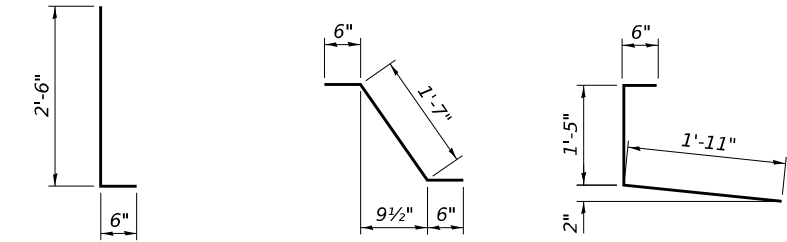


CROSS SECTION AT JOINT REPLACEMENT LOCATIONS
(Looking South)



SECTION THRU DECK

SECTION THRU APPROACH PARAPET



BAR d(E) & d2(E)

BAR d1(E)

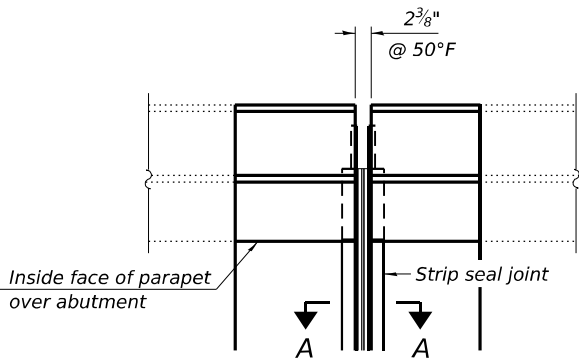
BAR d3(E)

*Existing reinforcement bars extending into the removal area shall be cleaned, straightened, and incorporated into the new construction.

I.F. Inside Face
O.F. Outside Face

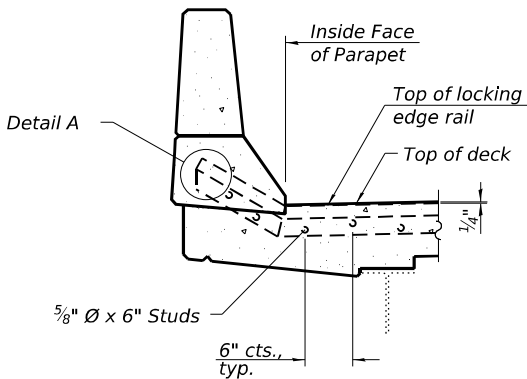
BILL OF MATERIAL

Bar	No.	Size	Length	Shape
a(E)	24	#6	23'-7"	—
a1(E)	24	#6	18'-7"	—
a2(E)	24	#5	16'-2"	—
a3(E)	24	#5	7'-2"	—
a4(E)	8	#6	4'-0"	—
d(E)	16	#5	3'-0"	L
d1(E)	16	#5	2'-7"	↘
d2(E)	16	#4	3'-0"	L
d3(E)	16	#4	3'-10"	L
Concrete Removal			Cu. Yd.	32.2
Concrete Superstructure			Cu. Yd.	33.9
Reinforcement Bars, Epoxy Coated			Pound	2320
Bar Splicers			Each	48



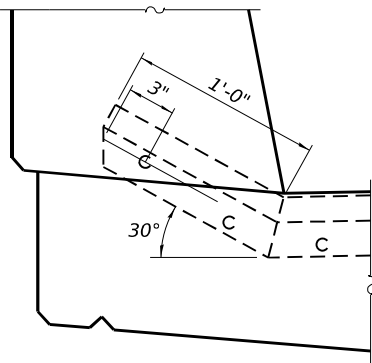
PARAPET PLAN AT ABUTMENT

(North abutment shown, South abutment similar by opposite hand)

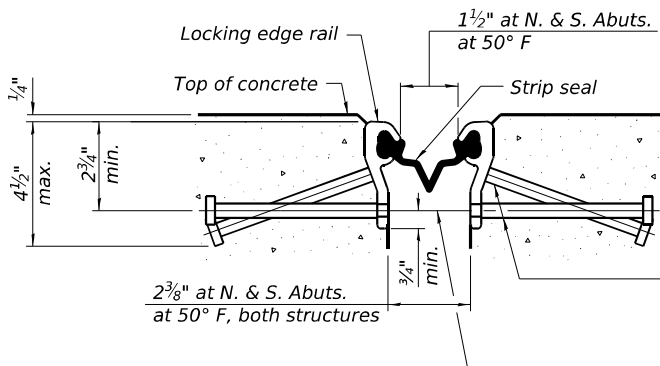


SECTION AT PARAPET

(Skews > 30° shown. Skews ≤ 30° similar except as shown in plan view.)



DETAIL A



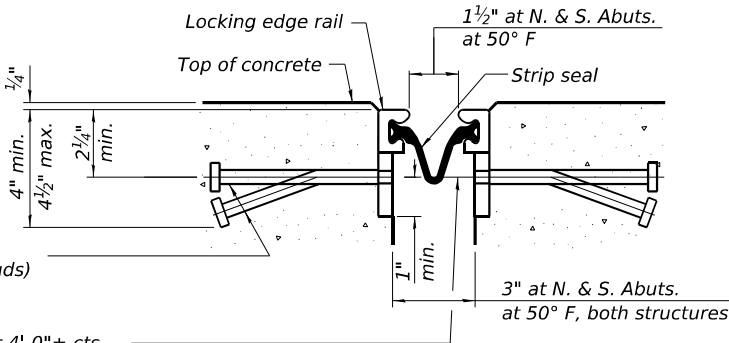
SHOWING ROLLED RAIL JOINT

* 5/8" Ø x 6" studs @ 6" cts. (alternate angled/bent studs with horizontal studs)

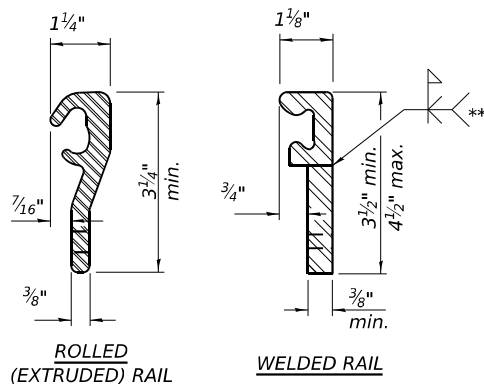
3/8" Ø threaded rods in 7/16" Ø holes at 4'-0"± cts. for holding the proper joint opening based on the temperature during the deck pour. Place to miss studs. All rods shall be burned, or sawed off flush with the plates after concrete is set.

SECTION A-A

* Granular or solid flux filled headed studs conforming to Article 1006.32 of the Std. Specs., automatically end welded.

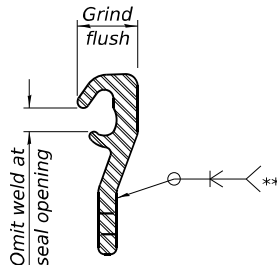


SHOWING WELDED RAIL JOINT



LOCKING EDGE RAILS

** Back gouge not required if complete joint penetration is verified by mock-up.



LOCKING EDGE RAIL SPLICE

The inside of the locking edge rail groove shall be free of weld residue. Rolled rail shown, welded rail similar.

BILL OF MATERIAL

Item	Unit	Total
Preformed Joint Strip Seal	Foot	168

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.

All steel components shall be galvanized after fabrication according to Article 520.03 of the Standard Specifications.

The Maximum space between locking edge rail segments shall be c" and sealed with a suitable sealant; however, any rail joint within 10' measured perpendicular to the face of the curb or parapet shall be welded as shown in the locking edge rail splice detail.

Cost of embedded plates and anchorage studs included with Preformed Joint Strip Seal.

The concrete opening below the strip seal will vary based on the locking edge rail chosen by the Contractor. Deck and parapet lengths shown elsewhere in the plans are dimensioned to the concrete opening, not the joint opening, and are based on the rolled locking edge rail. If the Contractor elects to use a different locking edge rail, dimensional adjustments may be required. One exception to this would be the strip seal joint at the end of the precast bridge approach slab. For these cases the pavement connector length shall be adjusted, not the length of the bridge approach slab.

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USER NAME = myoung

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REVISD -

PLOT SCALE = \$SCALE\$

DRAWN - MMY

REVISD -

PLOT DATE = 11/14/2024

CHECKED - MJT

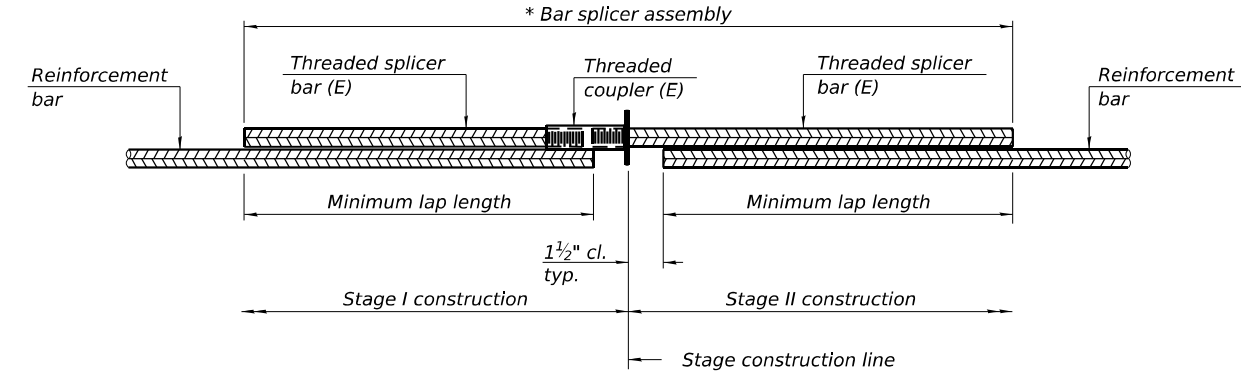
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PREFORMED JOINT STRIP SEAL
S.N. 053-0007 N.B. & S.N. 053-0008 S.B.

SHEET 8 OF 13 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
677	(11-X-1-BR-1, 11-X-1-BR)BRR	LIVINGSTON	32	25
CONTRACT NO. 66P37				
ILLINOIS FED. AID PROJECT				



STANDARD BAR SPLICER ASSEMBLY PLAN

Only bar splicer assemblies as presented on the approved QPL list may be used.

Threaded splicer bar length = min. lap length + 1½" + thread length

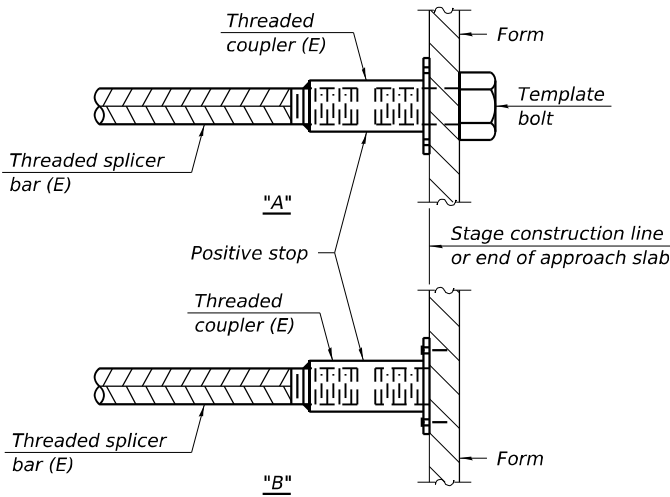
* Epoxy not required on Bar Splicer Assembly components used in conjunction with black bars.

S.N. 053-0007 N.B.

Location	Bar size	No. assemblies required	Minimum lap length
N. Abut. - Approach	#5	6	3'-6"
N. Abut. - Hatch Block	#6	4	4'-0"
N. Abut. - Deck	#6	2	4'-0"
S. Abut. - Deck	#6	2	4'-0"
S. Abut. - Hatch Block	#6	4	4'-0"
S. Abut. - Approach	#5	6	3'-6"

S.N. 053-0008 S.B.

Location	Bar size	No. assemblies required	Minimum lap length
N. Abut. - Approach	#5	6	3'-6"
N. Abut. - Hatch Block	#6	4	4'-0"
N. Abut. - Deck	#6	2	4'-0"
S. Abut. - Deck	#6	2	4'-0"
S. Abut. - Hatch Block	#6	4	4'-0"
S. Abut. - Approach	#5	6	3'-6"

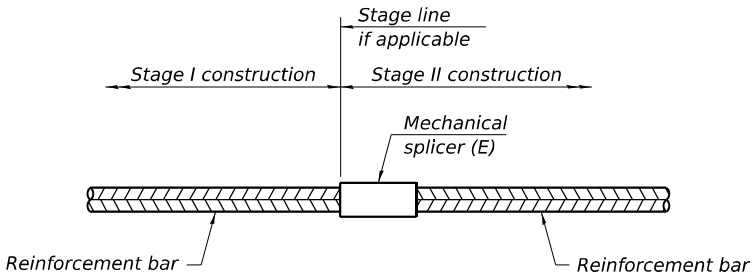


INSTALLATION AND SETTING METHODS

"A" : Set bar splicer assembly by means of a template bolt.

"B" : Set bar splicer assembly by nailing to wood forms or cementing to steel forms.

(E) : Indicates epoxy coating.



STANDARD MECHANICAL SPLICER

Location	Bar size	No. assemblies required

Notes:
Splicer bars shall be deformed with threaded ends and have a minimum 60 ksi yield strength.
All reinforcement shall be lapped and tied to the splicer bars.
Bar splicer assemblies shall be epoxy coated according to the requirements for reinforcement bars. See Section 508 of the Standard Specifications.
See approved list of bar splicer assemblies and mechanical splicers for alternatives.

BSD-1

5-15-2023

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USER NAME = myoung
PLOT SCALE = \$SCALE\$
PLOT DATE = 11/14/2024

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CHECKED - MJT
DRAWN - MMY
CHECKED - MJT

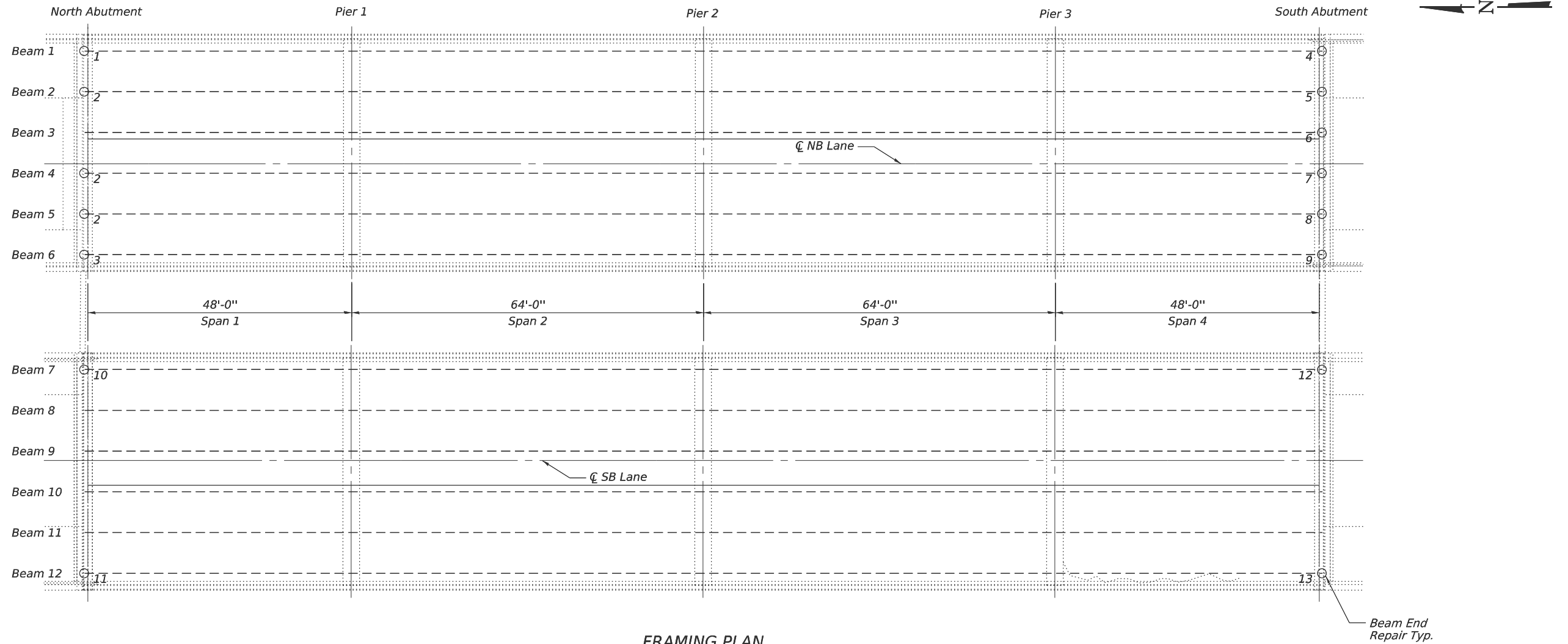
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DEPARTMENT OF TRANSPORTATION

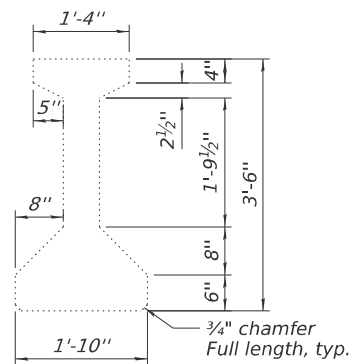
BAR SPLICER ASSEMBLY AND MECHANICAL SPLICER DETAILS
S.N. 053-0007 N.B. & S.N. 053-0008 S.B.

SHEET 9 OF 13 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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CONTRACT NO. 66P37				
		ILLINOIS	FED. AID PROJECT	

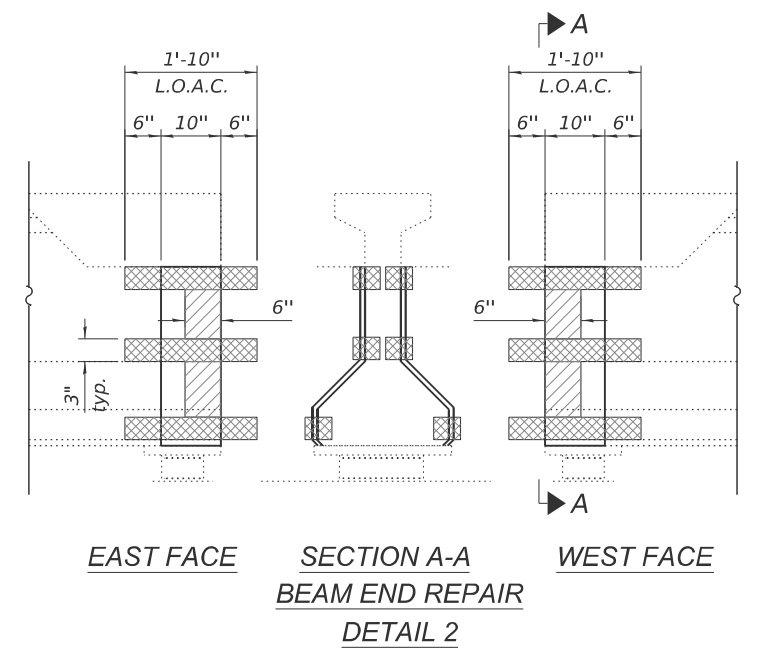
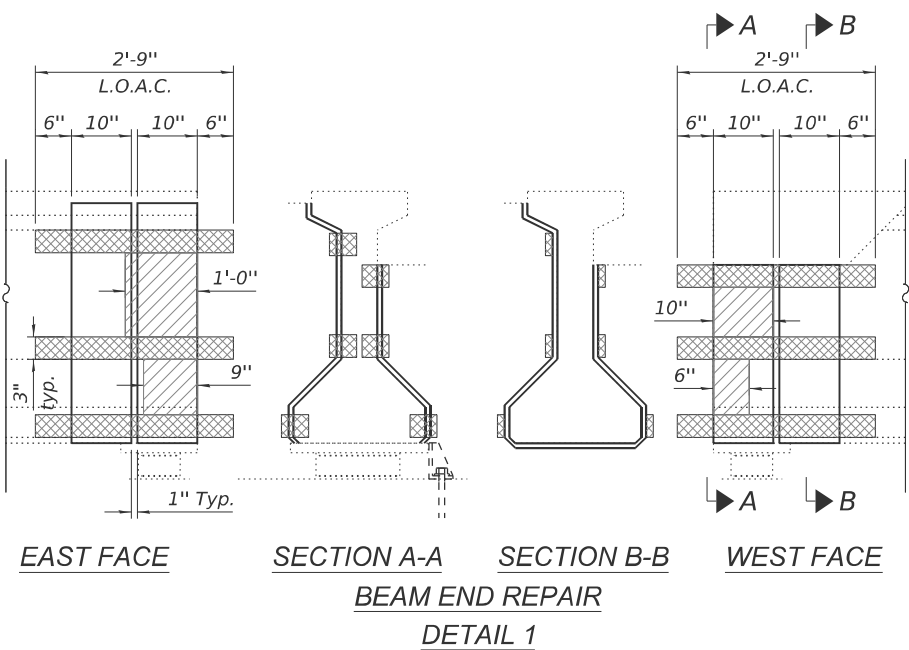


FRAMING PLAN



TYPICAL BEAM DIMENSIONS

- LEGEND**
- Precast Prestressed Concrete I-Beam Repair
 - Horizontal Anchorage Strip (Wrap onto end of beam, typ.)
 - FRP with fibers oriented vertically. Fiber wrap shall bend to follow beam contours. Typ.
 - L.O.A.C. Limits of acrylic coating



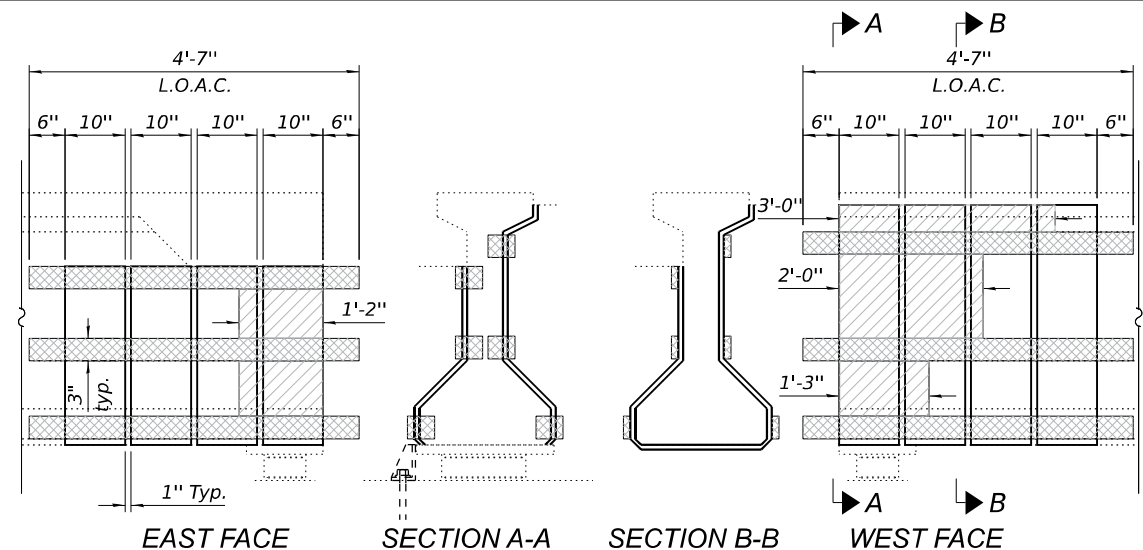
(Sheet 1 of 3)

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BEAM REPAIR DETAILS
S.N. 053-0007 N.B. & S.N. 053-0008 S.B.

SHEET 10 OF 13 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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CONTRACT NO. 66P37				
ILLINOIS FED. AID PROJECT				

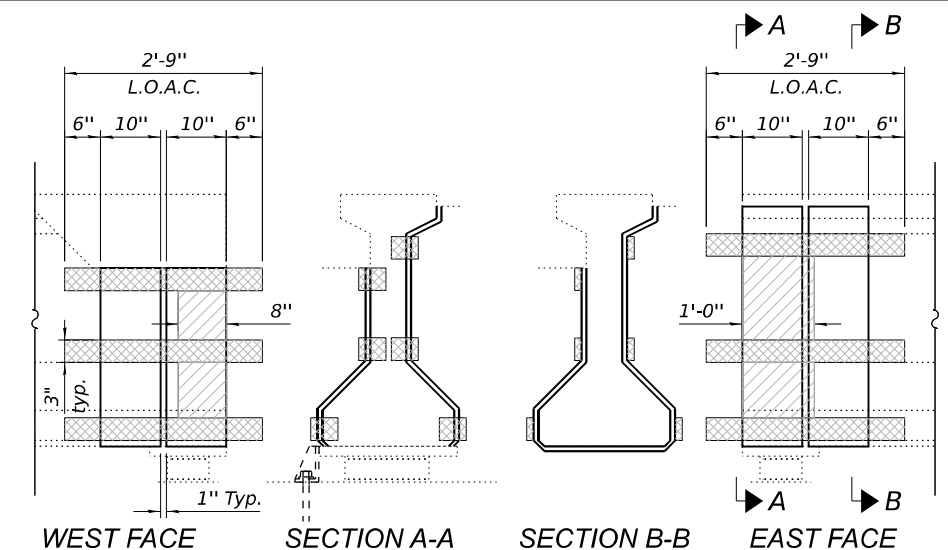


EAST FACE
SECTION A-A
SECTION B-B
BEAM END REPAIR
DETAIL 3

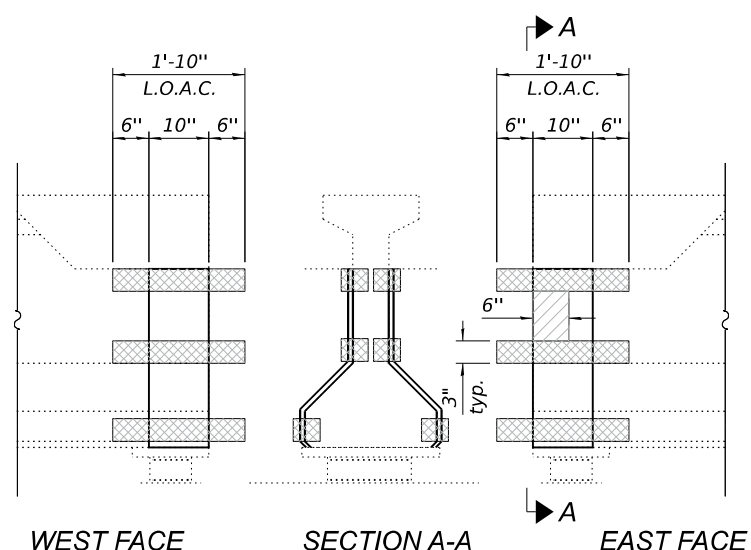
LEGEND

- Precast Prestressed Concrete I-Beam Repair
- Horizontal Anchorage Strip (Wrap onto end of beam, typ.)
- FRP with fibers oriented vertically. Fiber wrap shall bend to follow beam contours. Typ.

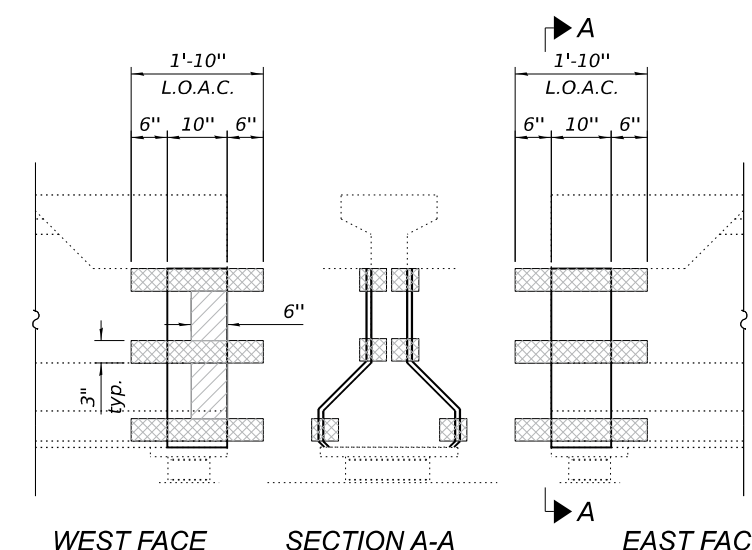
L.O.A.C. Limits of acrylic coating



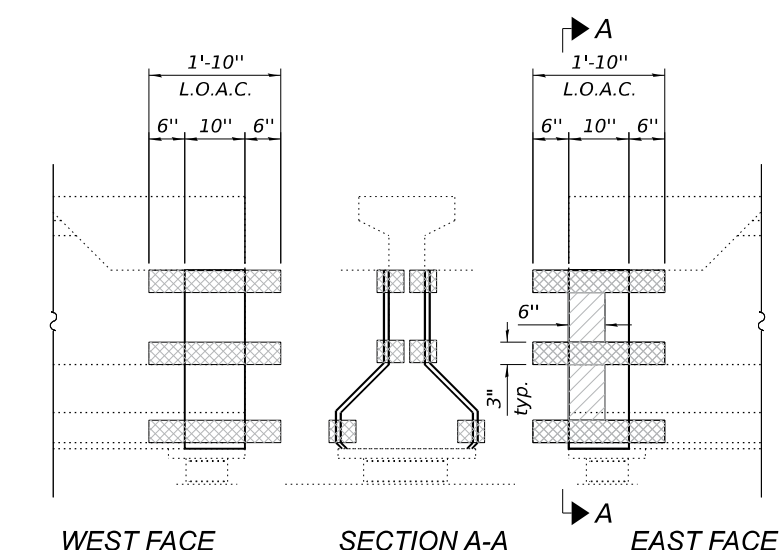
WEST FACE
SECTION A-A
SECTION B-B
BEAM END REPAIR
DETAIL 4



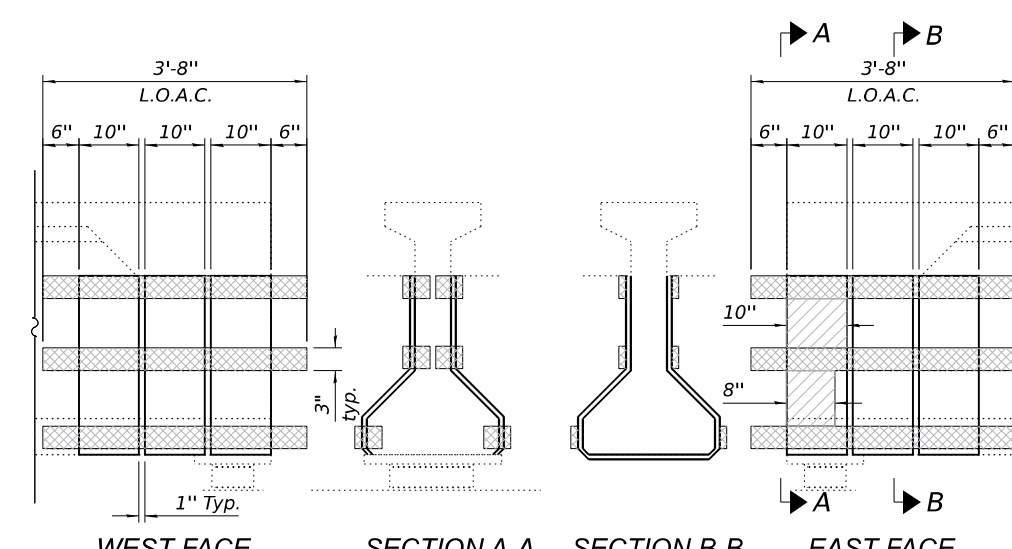
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SECTION A-A
SECTION B-B
BEAM END REPAIR
DETAIL 5



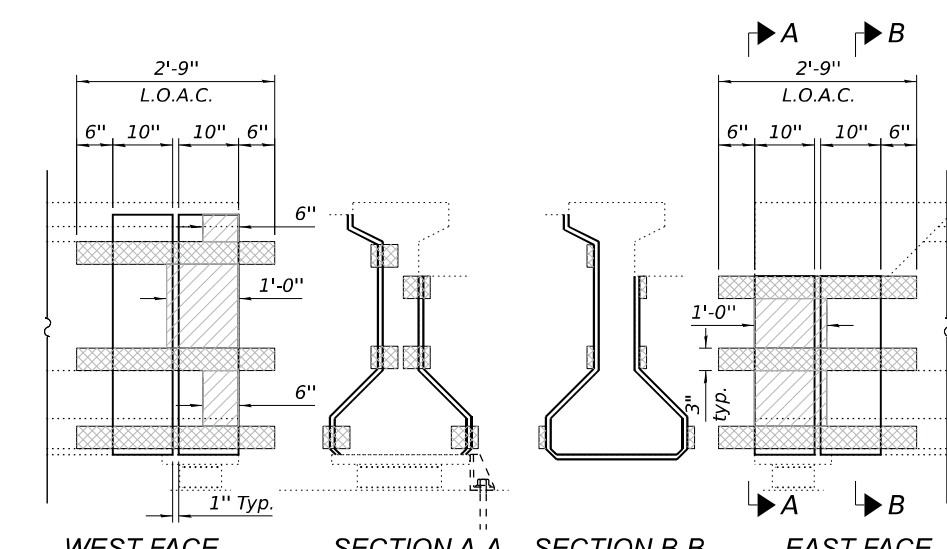
WEST FACE
SECTION A-A
SECTION B-B
BEAM END REPAIR
DETAIL 6



WEST FACE
SECTION A-A
SECTION B-B
BEAM END REPAIR
DETAIL 7



WEST FACE
SECTION A-A
SECTION B-B
BEAM END REPAIR
DETAIL 8



WEST FACE
SECTION A-A
SECTION B-B
BEAM END REPAIR
DETAIL 9

(Sheet 2 of 3)

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PLOT SCALE = \$SCALE\$
PLOT DATE = 1/22/2025

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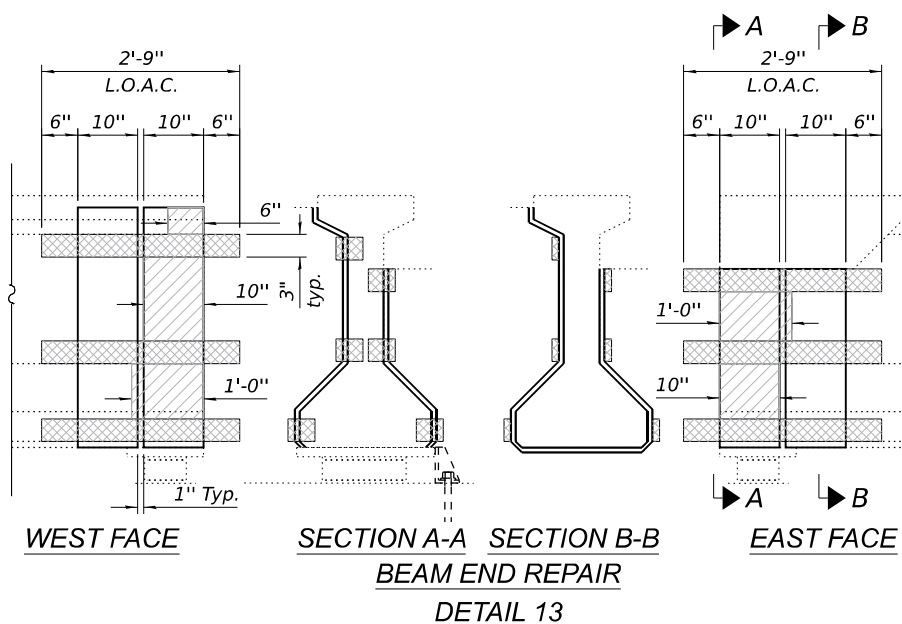
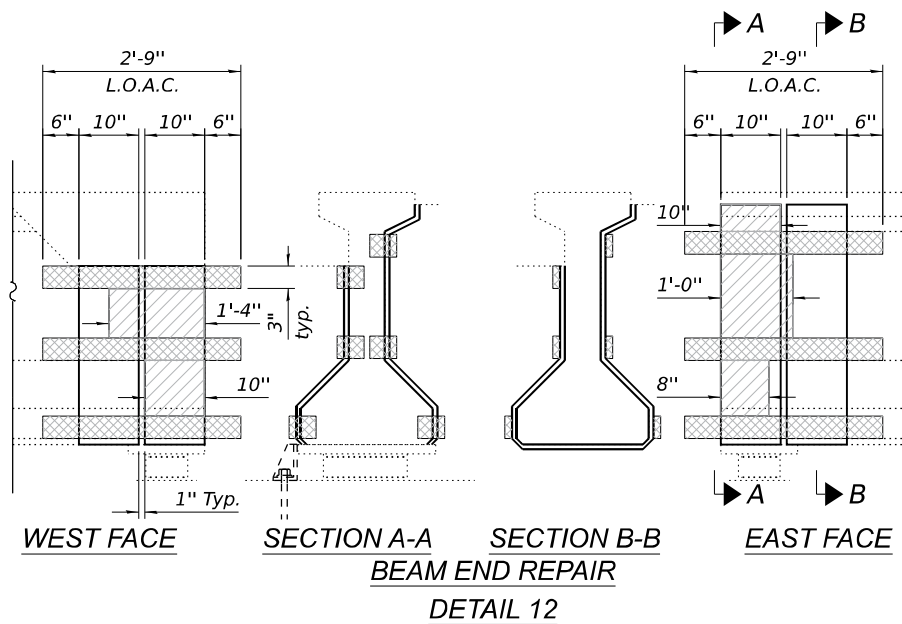
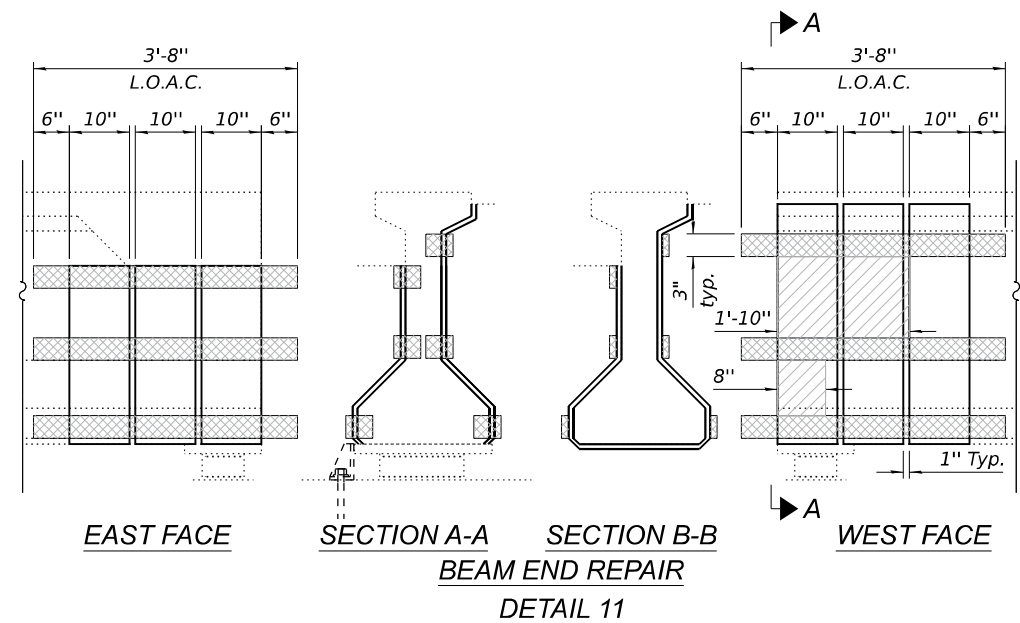
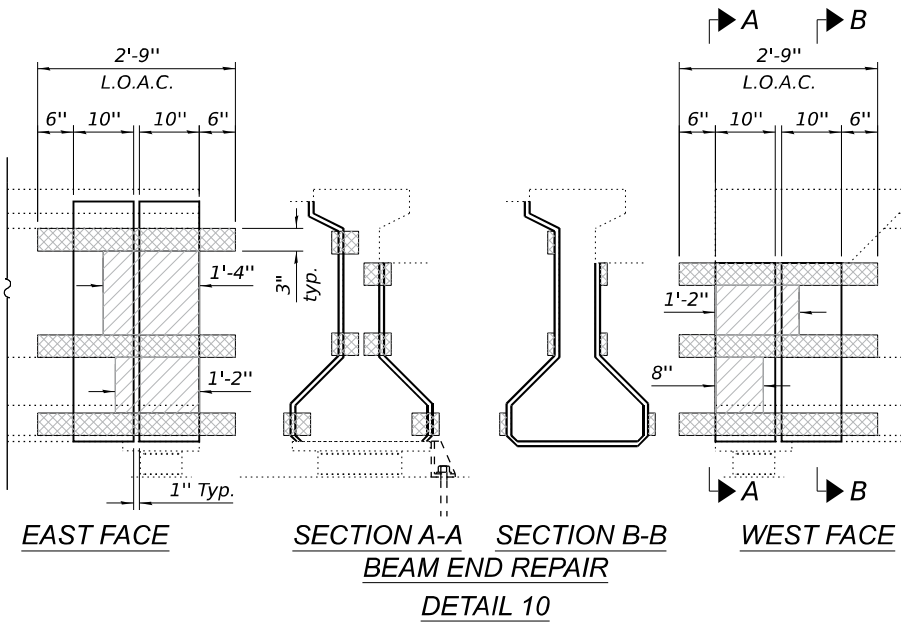
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DEPARTMENT OF TRANSPORTATION

BEAM REPAIR DETAILS
S.N. 053-0007 N.B. & S.N. 053-0008 S.B.

SHEET 11 OF 13 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
677	(11-X-1-BR-1, 11-X-1-BR)BRR	LIVINGSTON	32	28
CONTRACT NO. 66P37				
ILLINOIS FED. AID PROJECT				



LEGEND

- Precast Prestressed Concrete I-Beam Repair
- Horizontal Anchorage Strip (Wrap onto end of beam, typ.)
- FRP with fibers oriented vertically. Fiber wrap shall bend to follow beam contours. Typ.
- L.O.A.C. Limits of acrylic coating

BILL OF MATERIAL

Item	Unit	Total
Fiber Wrap	Sq. Ft.	169.2
Acrylic Coating	Sq. Yd.	27.8
Precast Prestressed Concrete I-Beam Repair	Sq. Ft.	63.7

(Sheet 3 of 3)

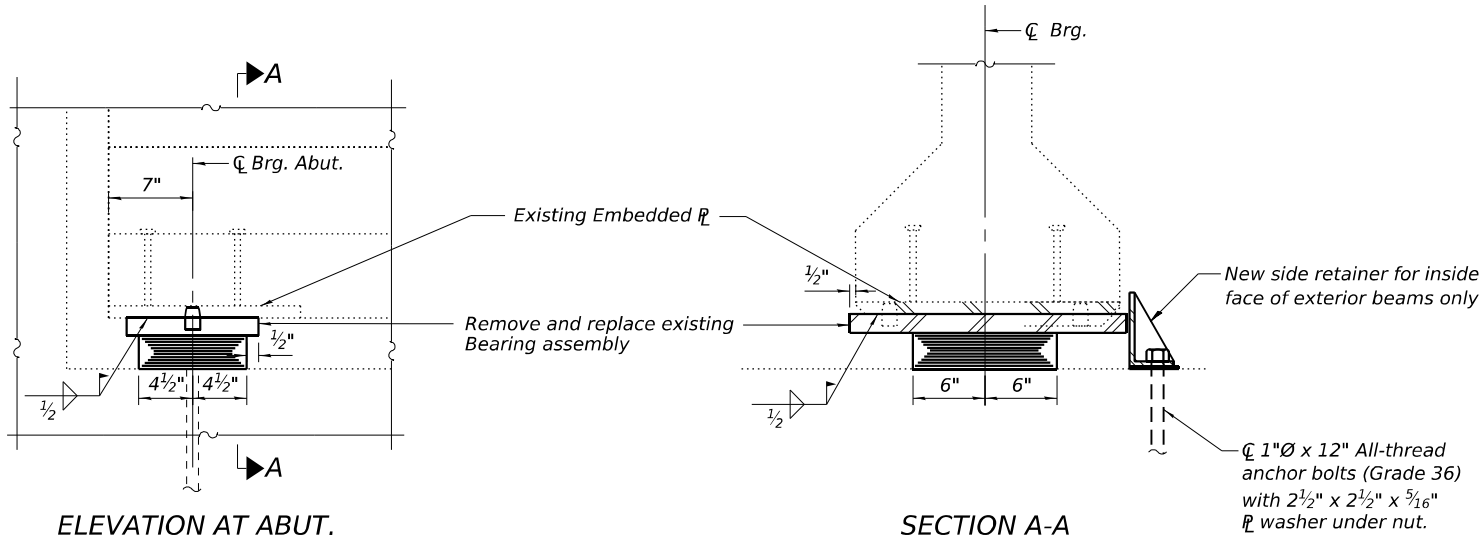
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BEAM REPAIR DETAILS
S.N. 053-0007 N.B. & S.N. 053-0008 S.B.

SHEET 12 OF 13 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
677	(11-X-1-BR-1, 11-X-1-BR)BRR	LIVINGSTON	32	29
CONTRACT NO. 66P37				
ILLINOIS FED. AID PROJECT				

USER NAME =	pallen	DESIGNED -	PDA	REVISED -	
		CHECKED -	MJT	REVISED -	
PLOT SCALE =	SSCALE\$	DRAWN -	MMY	REVISED -	
PLOT DATE =	1/22/2025	CHECKED -	MJT	REVISED -	



ELEVATION AT ABUT.

North abutment beam 1 shown, all other locations sim.)

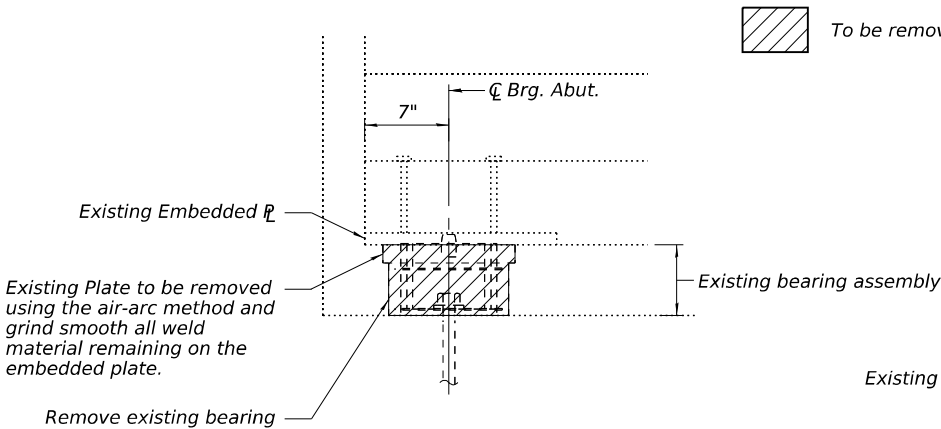
SECTION A-A

(Inside face of exterior beams, 4 each, both structures)

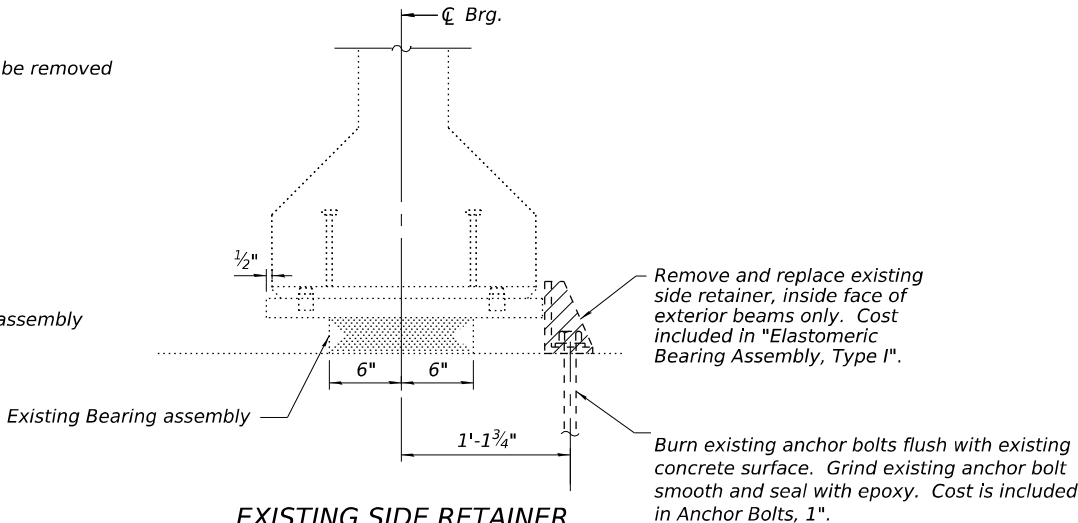
TYPE I ELASTOMERIC EXP. BRG.

(6 Required N.A., 6 Required S.A. - Both Structures)

Notes:
Prior to ordering any material, the Contractor shall verify in the field all bearing height and shim thickness dimensions. Adjustment must account for deck heave due to pack rust (if present).
Min. jack capacity = 86 Tons at Brg's of N & S Abutments - both structures.
Anchor bolts shall be ASTM F1554 all-thread (or an Engineer-approved alternate material) of the grade(s) and diameter(s) specified. ASTM A307 Grade C anchor bolts may be used in lieu of ASTM F1554 Grade 36 (Fy=36ksi). The corresponding specified grade of AASHTO M314 anchor bolts may be used in lieu of ASTM F1554.
Drilled and set anchor bolts shall be installed according to Article 521.06 of the Standard Specifications.
Side retainers and stainless steel plates shall be included in the cost of Elastomeric Bearing Assembly, Type I.
All exposed bearing plates and side retainers shall be hot dip galvanized according to AASHTO M111.
The structural steel plates of the Bearing Assembly for the abutments at both structures shall conform to the requirements of AASHTO M270 Grade 50.

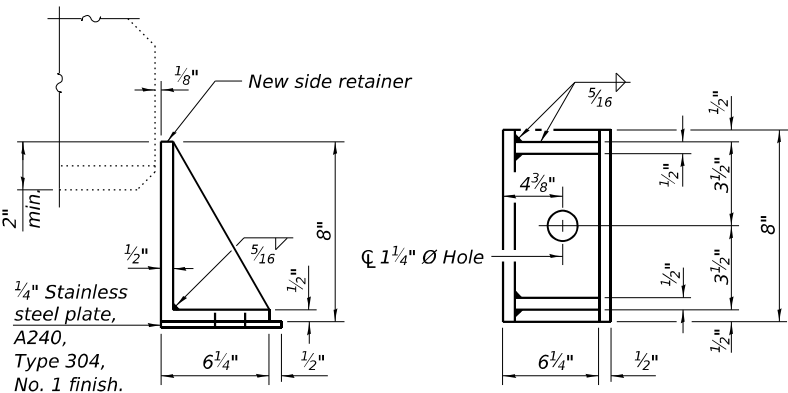


EXISTING BEARING REMOVAL DETAIL



EXISTING SIDE RETAINER
REMOVAL DETAIL

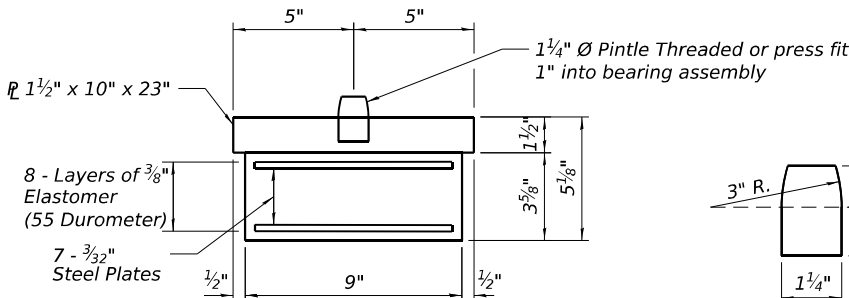
(Exterior beams at abutments)



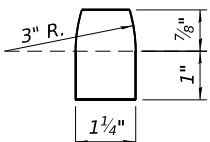
SIDE RETAINER - ABUTMENTS

(4 each, both structures)

Equivalent rolled angle with stiffeners
will be allowed in lieu of welded plates.



BEARING ASSEMBLY AT ABUTMENTS



PINTLE

BEAM REACTIONS

	(1)
R DL	(k) 37.2
R LL	(k) 58.0
Imp.	(k) 19.1
R (Total)	(k) 114.3

(1) N. Brg. & S. Brg.

BILL OF MATERIAL

Item	Unit	Total
Elastomeric Bearing Assembly Type I	Each	24
Jack & Remove Existing Bearings	Each	24
Anchor Bolts, 1"	Each	8

MODEL: Sheet
FILE NAME: I:\2022\22069.06 IDOT D3 - PTB 205-023 - W06 - Livingston County 66P37\CADDData\CADSheets\0530007_0008-66P37-013-Bearings.dgn
11/14/2024 12:23:24 PM

KUHN & TRELLO
CONSULTING ENGINEERS
A Limited Liability Company
199 N. 7th Street, 2nd Floor
St. Charles, IL 60154
Phone: 312-579-0044
Professional Design Firm No. 384-006516

USER NAME = myoung
DESIGNED - PDA
CHECKED - MJT
PLOT SCALE = \$SCALES\$
DRAWN - MMY
PLOT DATE = 11/14/2024
CHECKED - MJT
REVISED -

DESIGNED - PDA
CHECKED - MJT
PLOT SCALE = \$SCALES\$
DRAWN - MMY
PLOT DATE = 11/14/2024
CHECKED - MJT
REVISED -

DESIGNED - PDA
CHECKED - MJT
PLOT SCALE = \$SCALES\$
DRAWN - MMY
PLOT DATE = 11/14/2024
CHECKED - MJT
REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

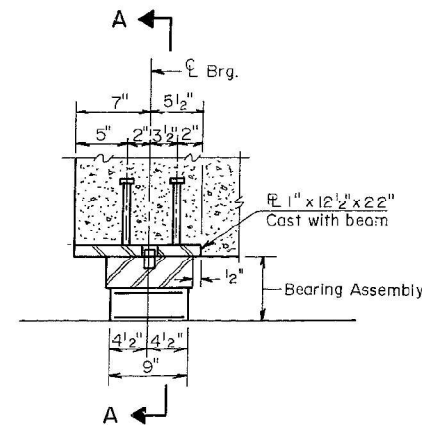
BEARING DETAILS
S.N. 053-0007 N.B. & S.N. 053-0008 S.B.

SHEET 13 OF 13 SHEETS

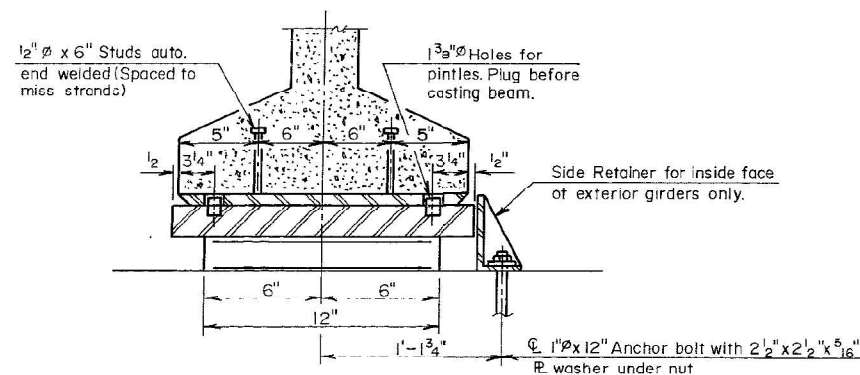
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
677	(11-X-1-BR-1, 11-X-1-BR)BRR	LIVINGSTON	32	30
CONTRACT NO. 66P37				
ILLINOIS FED. AID PROJECT				

FOR INFORMATION ONLY

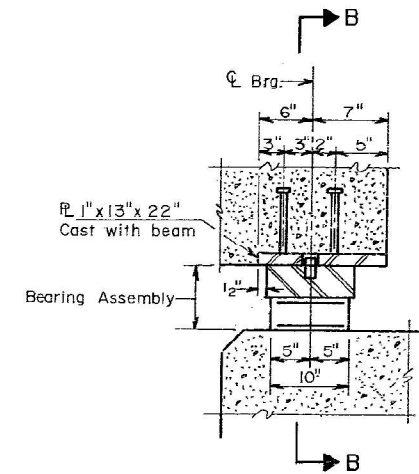
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.P. 677	11X-1-BR-1	LIVINGSTON	32	24
FED. ROAD DIST. NO. 7	ILLINOIS PROJECT			
SHEET 8 OF 16				



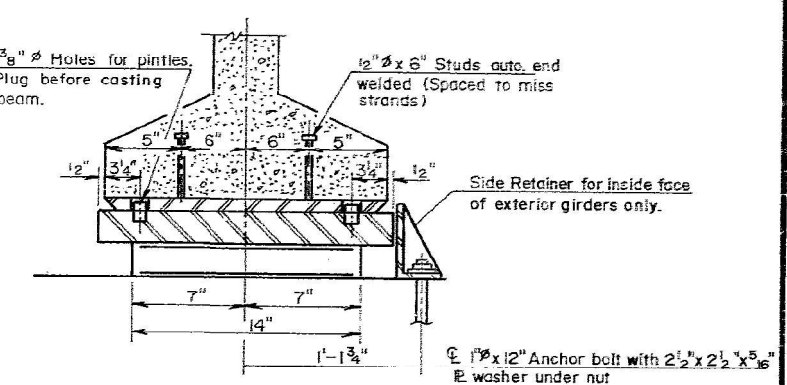
SECTION AT ABUT.



SECTION A-A

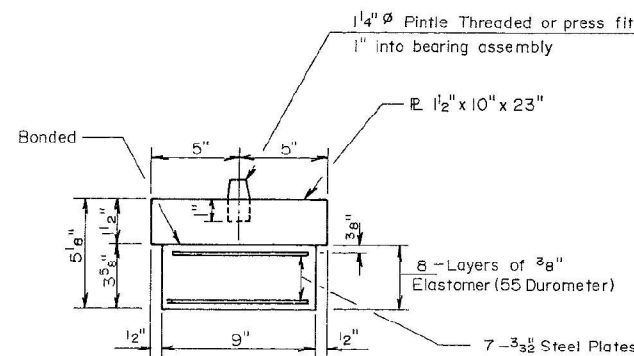


SECTION AT PIERS 1 & 3



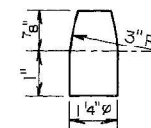
SECTION B-B

TYPE I ELASTOMERIC EXP. BRG. AT ABUTMENTS

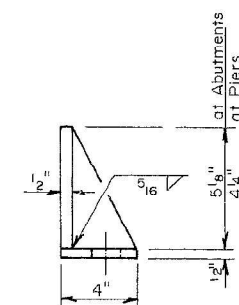


BEARING ASSEMBLY

Note: After beams have been erected holes at expansion bearings shall be drilled and anchor bolts grouted in place. See Sheet 12 of 16 for anchor bolt installation.

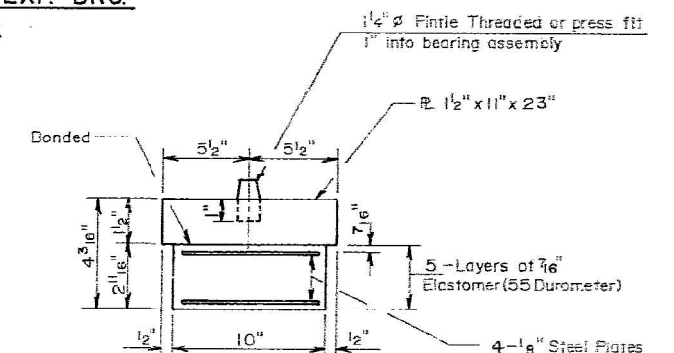


PINTLE



SIDE RETAINER

TYPE I ELASTOMERIC EXP. BRG. AT PIERS 1 & 3



BEARING ASSEMBLY

BILL OF MATERIAL

Item	Unit	Total
Elastomer Bearing Assembly Type I	Each	72

BEARING DETAILS
F.A.P. RTE. 677 SEC. 11X-1-BR(SB.)
& SEC. 11X-1-BR-(NB.)
STA. 1484+94.00
LIVINGSTON COUNTY

HSIONG ASSOCIATES LTD.

DESIGNED: WH. CHECKED: NO. H-063
DRAWN: C.R.C. DATE:

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING STRUCTURE PLANS - FOR INFORMATION ONLY
STRUCTURE NOS. 053-0007 & 053-0008

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
677	(11-X-1-BR-1, 11-X-1-BR)BRR	LIVINGSTON	32	32
CONTRACT NO. 66P37				
ILLINOIS FED. AID PROJECT				

USER NAME = msulheard	DESIGNED - JS	REVISED -
	DRAWN - MS	REVISED -
	CHECKED - JS	REVISED -
	DATE - 9/25/24	REVISED -
PLOT DATE = 10/10/2024		