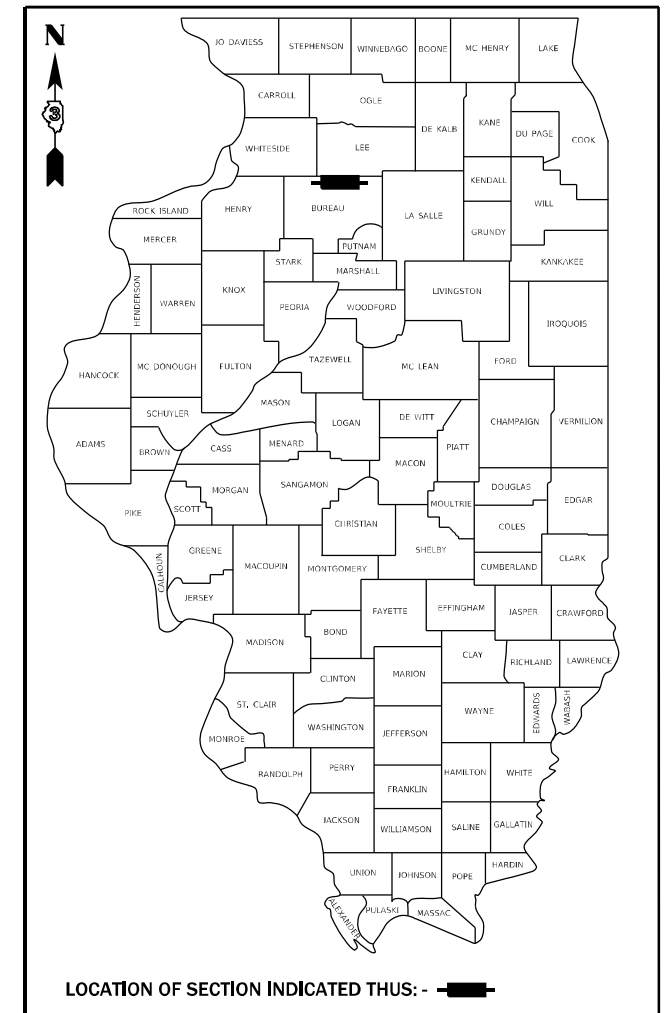


STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
587	(140BR)BRR	BUREAU	25	1
		ILLINOIS	CONTRACT NO. 66M74	

D-93-080-22



# PROPOSED HIGHWAY PLANS

## F.A.P. ROUTE 587 (IL 92) SECTION (140BR)BRR BRIDGE REPAIRS AND APPROACH SLAB REPLACEMENT BUREAU COUNTY

C-93-101-22

### INDEX OF SHEETS

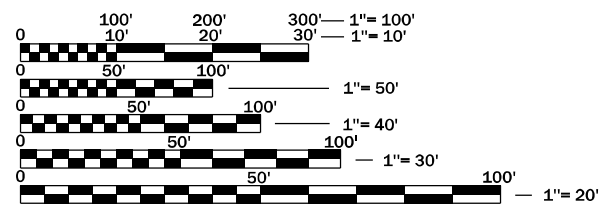
- 1. COVER SHEET
- 2. GENERAL NOTES
- 3 - 5. SUMMARY OF QUANTITIES
- 6. TYPICAL SECTIONS
- 7. SCHEDULES
- 8 - 10. TRAFFIC CONTROL AND PROTECTION, STANDARD 701321
- 11. SHOULDER WIDENING DETAILS
- 12 - 23. STRUCTURE DETAILS FOR STRUCTURE NO. 006-0153
- 24. TEMPORARY INFORMATION SIGNING
- 25. MISCELLANEOUS DETAILS

### HIGHWAY STANDARDS

- 000001-08 STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS
- 001001-02 AREAS OF REINFORCEMENT BARS
- 001006 DECIMAL OF AN INCH AND OF A FOOT
- 420701-03 PAVEMENT WELDED WIRE REINFORCEMENT
- 482001-02 HMA SHOULDER ADJACENT TO FLEXIBLE PAVEMENT
- 631031-17 TRAFFIC BARRIER TERMINAL, TYPE 6
- 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
- 701311-03 LANE CLOSURE, 2L, 2W, MOVING OPERATIONS - DAY ONLY
- 701901-08 TRAFFIC CONTROL DEVICES
- 704001-08 TEMPORARY CONCRETE BARRIER
- 782006-01 GUARDRAIL AND BARRIER WALL REFLECTOR MOUNTING DETAILS

### PROJECT LOCATION

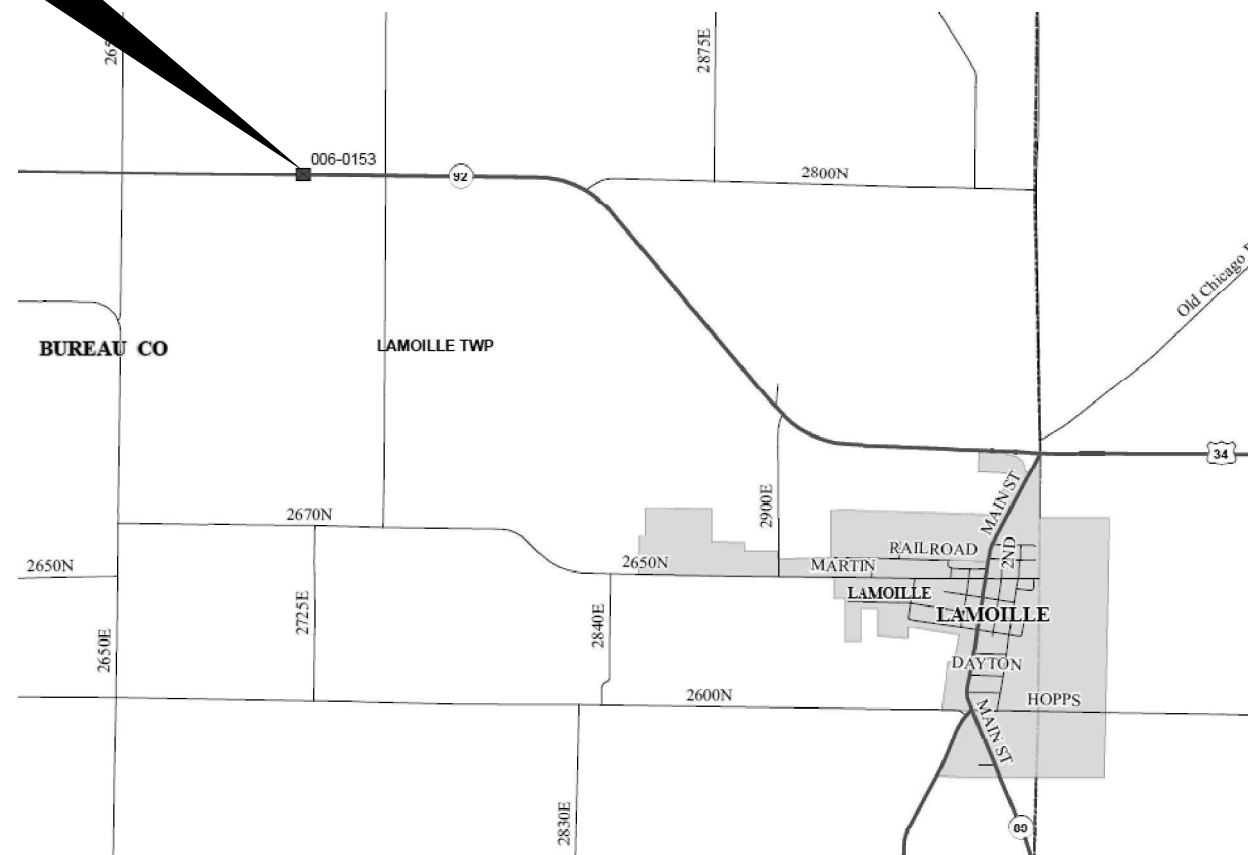
STRUCTURE NO. 006-0153  
CARRYING F.A.P. ROUTE 587 (IL 92)  
AT STA. 725+76.80  
OVER A STREAM  
APPROXIMATELY 3.3 MILES  
WEST OF US 34 (LAMOILLE)



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 3 NO. (815) 434-6131  
CONTRACT NO. 66M74



POINT LOCATION

### FUNCTIONAL CLASSIFICATION

RURAL MINOR ARTERIAL

F.A.P. ROUTE 587 (IL 92)

2019 ADT = 675

P.V. 89.7 % S.U. 5.9 % M.U. 4.4 %

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

SUBMITTED August 30, 2022

*[Signature]*  
REGIONAL ENGINEER

October 14, 2022  
*[Signature]*

ENGINEER OF DESIGN AND ENVIRONMENT

October 14, 2022  
*[Signature]*  
DIRECTOR OF HIGHWAYS PROJECT IMPLEMENTATION

PRINTED BY THE AUTHORITY  
OF THE STATE OF ILLINOIS

**GENERAL NOTES**

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 / IN
SHORT TERM PAVEMENT MARKING	10	FT /100 FT OF APPLICATION
MIX FOR CRACKS, JTS & FLGWYS	0.0003	TONS / SQ YD
BINDER (HAND METHOD)	0.0005	TONS / SQ YD

**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 HALLOWAY" 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 YOGESH PATEL. PHONE (815) 434-8418. EMAIL: yogesh.patel@illinois.gov.

**HMA MIXTURE REQUIREMENT TABLE**

LOCATION(S) :	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 C
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	CORES

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION  
DISTRICT THREE  
AS BUILT INFORMATION

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION  
DISTRICT THREE

\_\_\_\_\_  
SUPERVISING CONSTRUCTION FIELD ENGINEER

PREPARED BY: \_\_\_\_\_  
DISTRICT STUDIES & PLANS ENGINEER

\_\_\_\_\_  
RESIDENT ENGINEER / TECHNICIAN

DATE: \_\_\_\_\_

START & END DATES  
OF CONSTRUCTION:

EXAMINED BY: \_\_\_\_\_  
DISTRICT CONSTRUCTION ENGINEER

INSPECTORS: \_\_\_\_\_

\_\_\_\_\_  
DISTRICT MATERIALS ENGINEER

\_\_\_\_\_  
DISTRICT OPERATIONS ENGINEER

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**GENERAL NOTES**

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
587	(140BR)BRR	BUREAU	25	2
			CONTRACT NO. 66M74	
			ILLINOIS FED. AID PROJECT	

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	DRAWN - RW	REVISED -
PLOT SCALE = 100,0000' / in.	CHECKED - YP	REVISED -
PLOT DATE = 9/7/2022	DATE - 7/1/2022	REVISED -

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE	
				CONTRACT MAINTENANCE	100% STATE
				BRIDGE	
				0047	
				S.N. 006-0153	
20200500	EARTH EXCAVATION (WIDENING)	CU YD	63.7	63.7	
40600290	BITUMINOUS MATERIALS (TACK COAT)	POUND	76	76	
42000060	WELDED WIRE REINFORCEMENT	SQ YD	180	180	
42000080	PAVEMENT CONNECTOR (PCC) FOR BRIDGE APPROACH SLAB	SQ YD	180	180	
44000100	PAVEMENT REMOVAL	SQ YD	82	82	
44004250	PAVED SHOULDER REMOVAL	SQ YD	86	86	
48101200	AGGREGATE SHOULDERS, TYPE B	TON	31	31	
48203033	HOT-MIX ASPHALT SHOULDERS, 9"	SQ YD	341	341	
50102400	CONCRETE REMOVAL	CU YD	9.5	9.5	
50300225	CONCRETE STRUCTURES	CU YD	24	24	
50300255	CONCRETE SUPERSTRUCTURE	CU YD	9.8	9.8	
50300260	BRIDGE DECK GROOVING	SQ YD	396	396	
50300300	PROTECTIVE COAT	SQ YD	426	426	
50301350	CONCRETE SUPERSTRUCTURE (APPROACH SLAB)	CU YD	89.6	89.6	

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PLOT DATE = 8/29/2022	DATE - 7/1/2022	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.
587	(140BR)BRR	BUREAU	25	3
			CONTRACT NO. 66M74	
ILLINOIS FED. AID PROJECT				

CONSTRUCTION CODE
CONTRACT MAINTENANCE
100% STATE
BRIDGE
0047
S.N. 006-0153

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	
50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	37420	37420
50800515	BAR SPLICERS	EACH	304	304
50800530	MECHANICAL SPLICERS	EACH	12	12
52000110	PREFORMED JOINT STRIP SEAL	FOOT	76	76
63302700	REMOVE AND REERECT TRAFFIC BARRIER TERMINALS, TYPE 6	EACH	4	4
67100100	MOBILIZATION	L SUM	1	1
70100405	TRAFFIC CONTROL AND PROTECTION, STANDARD 701321	EACH	1	1
70100450	TRAFFIC CONTROL AND PROTECTION, STANDARD 701201	L SUM	1	1
70106500	TEMPORARY BRIDGE TRAFFIC SIGNALS	EACH	1	1
70300100	SHORT TERM PAVEMENT MARKING	FOOT	70	70
70300150	SHORT TERM PAVEMENT MARKING REMOVAL	SQ FT	23	23
70400100	TEMPORARY CONCRETE BARRIER	FOOT	350	350
70400200	RELOCATE TEMPORARY CONCRETE BARRIER	FOOT	350	350
70600251	IMPACT ATTENUATORS, TEMPORARY (NON- REDIRECTIVE, NARROW), TEST LEVEL 3	EACH	2	2

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**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**SUMMARY OF QUANTITIES**

SCALE: SHEET 2 OF 3 SHEETS STA. TO STA.

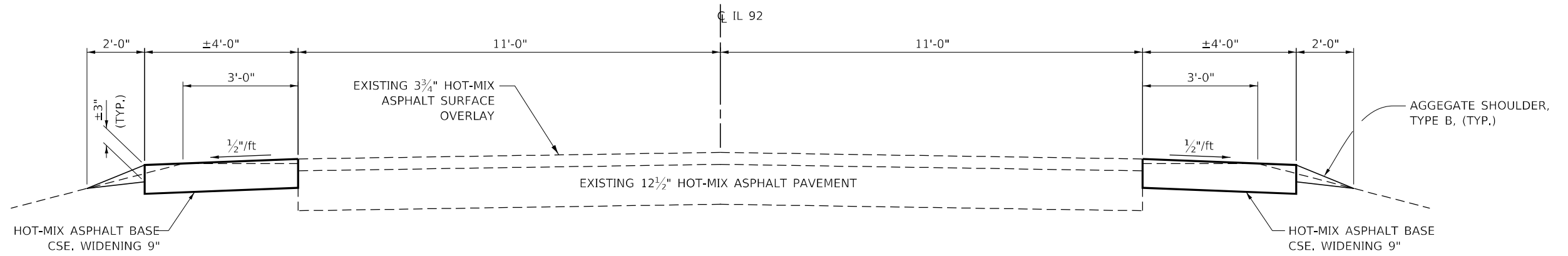
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587	(140BR)BRR	BUREAU	25	4
			CONTRACT NO. 66M74	
			ILLINOIS FED. AID PROJECT	

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE	
				CONTRACT MAINTENANCE 100% STATE BRIDGE 0047 S.N. 006-0153	
70600352	IMPACT ATTENUATORS, RELOCATE (NON- REDIRECTIVE, NARROW), TEST LEVEL 3	EACH	2	2	
* 78009004	MODIFIED URETHANE PAVEMENT MARKING - LINE 4"	FOOT	792	792	
* 78009006	MODIFIED URETHANE PAVEMENT MARKING - LINE 6"	FOOT	180	180	
78300202	PAVEMENT MARKING REMOVAL - WATER BLASTING	SQ FT	349	349	
X0327809	LINEAR DELINEATOR PANELS, 4 INCH	EACH	4	4	
X7200201	WIDTH RESTRICTION SIGNING	L SUM	1	1	
Z0001495	BRIDGE APPROACH SHOULDER REMOVAL	SQ YD	30	30	
Z0004552	APPROACH SLAB REMOVAL	SQ YD	140	140	
Z0016002	DECK SLAB REPAIR (FULL DEPTH, TYPE II)	SQ YD	5	5	
Z0016200	DECK SLAB REPAIR (PARTIAL)	SQ YD	37	37	
* Z0030850	TEMPORARY INFORMATION SIGNING	SQ FT	42	42	
Z0041895	POLYMER CONCRETE	CU FT	4	4	

\*= SPECIALTY ITEM

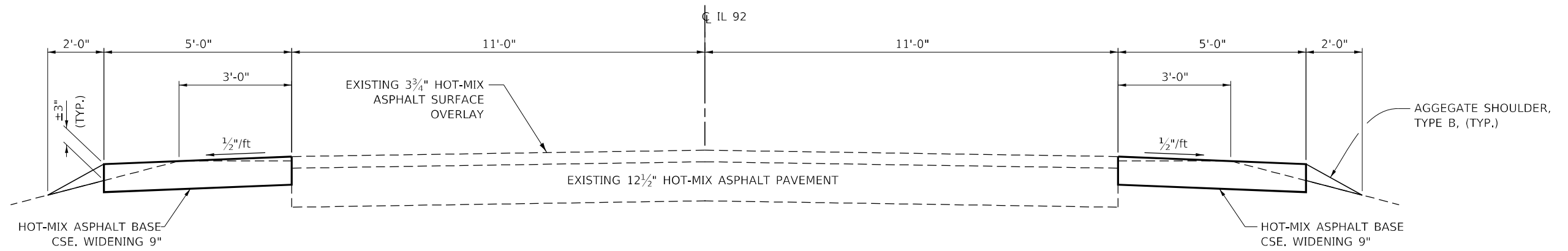
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PLOT SCALE = 100,0000' / in.	CHECKED - YP	REVISED -				SCALE:	SHEET 3 OF 3 SHEETS	STA. TO STA.	CONTRACT NO. 66M74	
PLOT DATE = 8/29/2022	DATE - 7/1/2022	REVISED -								



### TYPICAL SECTION 1

STA 724+50 TO STA 724+29 LT.  
 STA 724+50 TO STA 725+12 RT.  
 STA. 726+42 TO STA. 727+04 LT.  
 STA. 726+26 TO STA. 727+04 RT.



### TYPICAL SECTION 2

STA 723+60 TO STA. 724+50 LT.  
 STA. 723+60 TO STA. 724+50 RT.  
 STA. 727+04 TO STA. 727+94 LT.  
 STA. 727+04 TO STA. 727+94 RT.

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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.
587	(140BR)BRR	BUREAU	25	6
CONTRACT NO. 66M74			ILLINOIS FED. AID PROJECT	

**SCHEDULE - PAVEMENT MARKING**

LOCATION				PAVEMENT MARKING WATER-BLASTING	SHORT TERM PAVEMENT MARKING	SHORT TERM PAVEMENT MARKING REMOVAL	MODIFIED URETHANE PAVEMENT MARKING LINE 4"	MODIFIED URETHANE PAVEMENT MARKING LINE 6"
STATION	TO	STATION	LT/CL/RT	SQ FT	FOOT	SQ FT	WHITE FOOT	YELLOW FOOT
<b>STAGE I</b>								
722+38	TO	729+36	CL	87				
723+80	TO	727+76	LT	131				
SUBTOTAL				218				
<b>STAGE II</b>								
722+38	TO	729+36	CL		70	23		180
723+80	TO	727+76	LT				396	
723+98	TO	727+94	RT	131			396	
SUBTOTAL				131	70	23	792	180
<b>TOTAL</b>				<b>349</b>	<b>70</b>	<b>23</b>	<b>792</b>	<b>180</b>

**SCHEDULE  
TEMPORARY CONCRETE BARRIER**

LOCATION	TEMPORARY CONCRETE BARRIER	RELOCATE TEMPORARY CONCRETE BARRIER
STA.	SQ YD	TON
STAGE I	350	
STAGE II		350
<b>TOTAL</b>	<b>350</b>	<b>350</b>

**SCHEDULE - SHOULDERS**

LOCATION				EARTH EXCAVATION (WIDENING)	PAVED SHOULDER REMOVAL	BITUMINOUS MATERIALS (TACK-COAT)	HOT-MIX ASPHALT SHOULDER 9"	AGGREGATE SHOULDERS TYPE B
STATION	TO	STATION	LT/RT	CU YD	SQ YD	POUND	SQ YD	TON
<b>PRE-STAGE CONSTRUCTION</b>								
723+60	TO	725+29	LT	22.1		20	89	6
726+42	TO	729+94	LT	20.3		18	81	13
<b>STAGE I CONSTRUCTION</b>								
723+60	TO	725+12	RT	12.1	33	18	81	6
726+26	TO	727+94	RT	9.2	53	20	90	6
<b>TOTAL</b>				<b>63.7</b>	<b>86</b>	<b>76</b>	<b>341</b>	<b>31</b>

**SCHEDULE - GUARDRAIL**

LOCATION	REMOVE AND RE-ERECT TRAFFIC BARRIER TERMINAL TYPE 6	LINEAR DELINEATOR PANELS 4 INCH
	EACH	EACH
NORTHWEST CORNER	1	1
SOUTHWEST CORNER	1	1
NORTHEAST CORNER	1	1
SOUTHEAST CORNER	1	1
<b>TOTAL</b>	<b>4</b>	<b>4</b>

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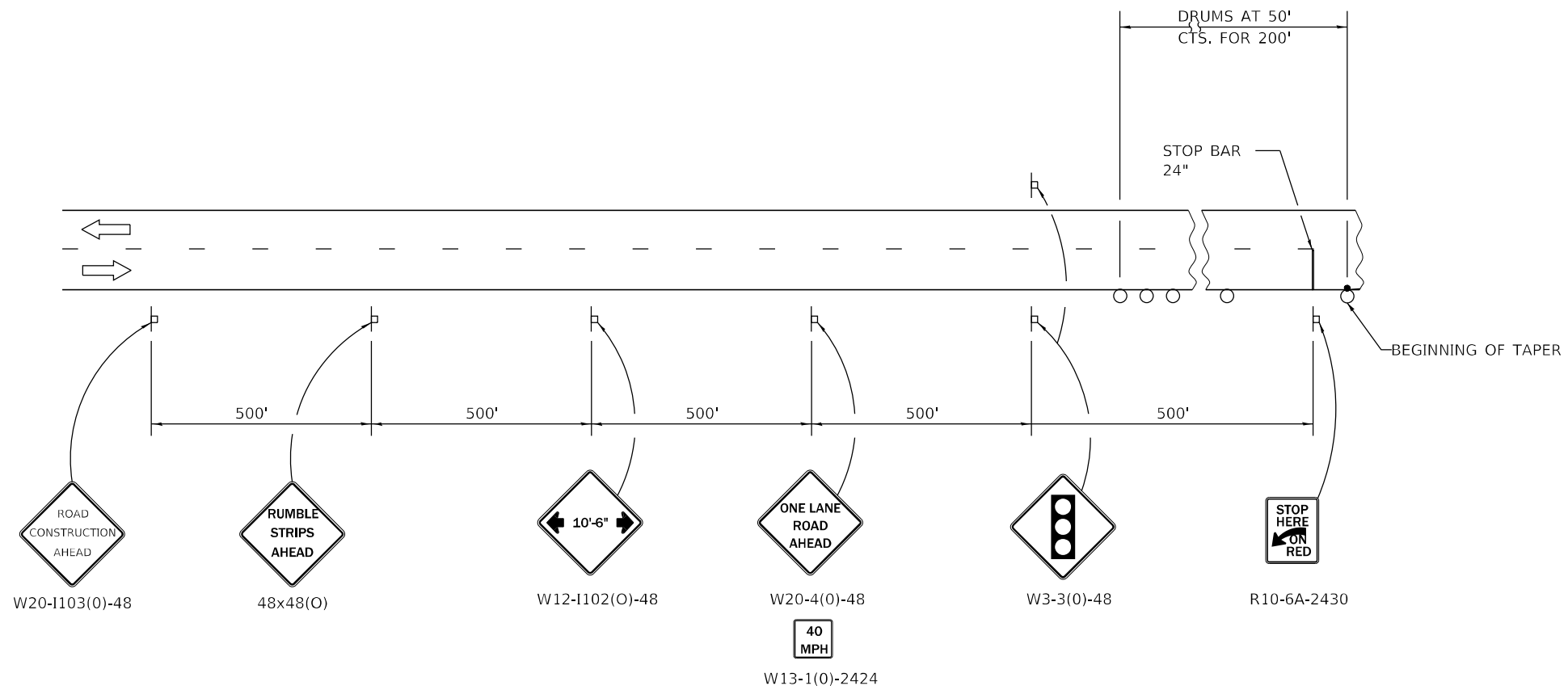
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**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

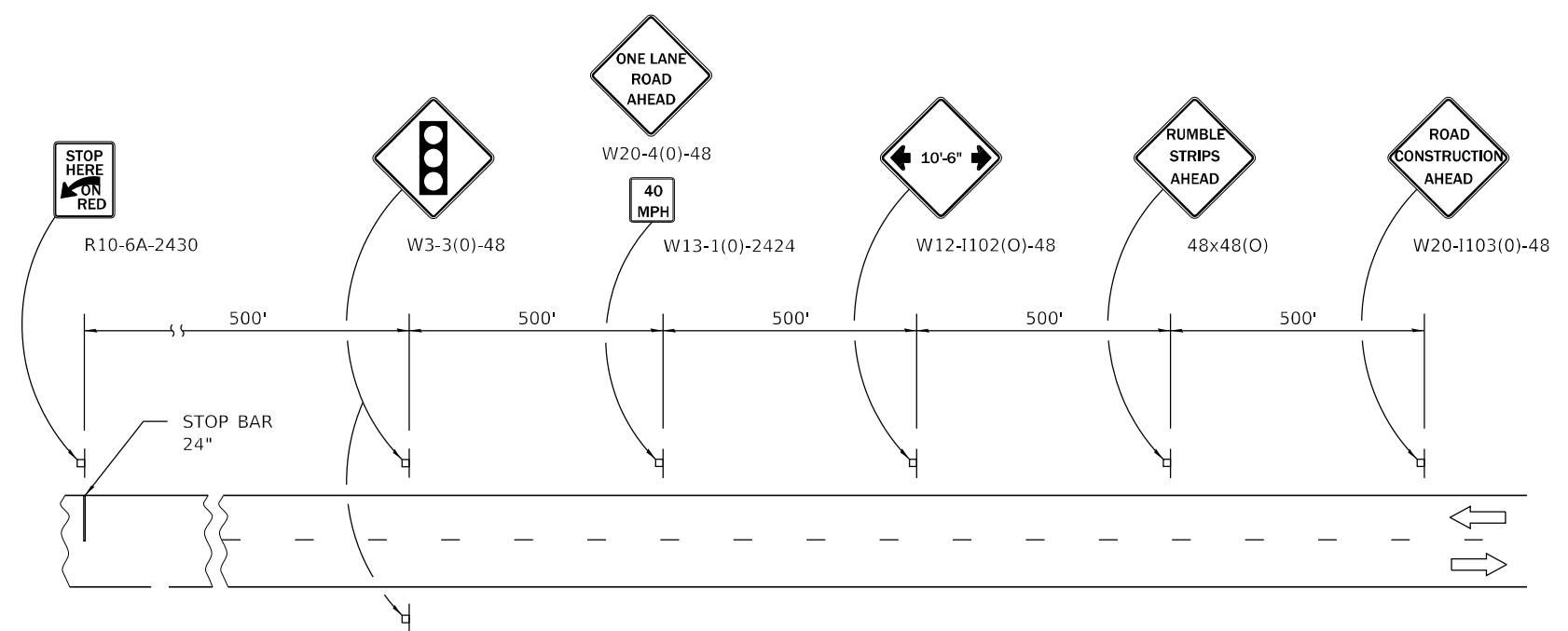
**SCHEDULES**

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
587	(140BR)BRR		25	7
			CONTRACT NO. 66M74	
ILLINOIS FED. AID PROJECT				



- SYMBOLS**
- ┆ SIGN
  - DRUM
  - DRUM WITH STEADY BURNING BI-DIRECTIONAL LIGHT



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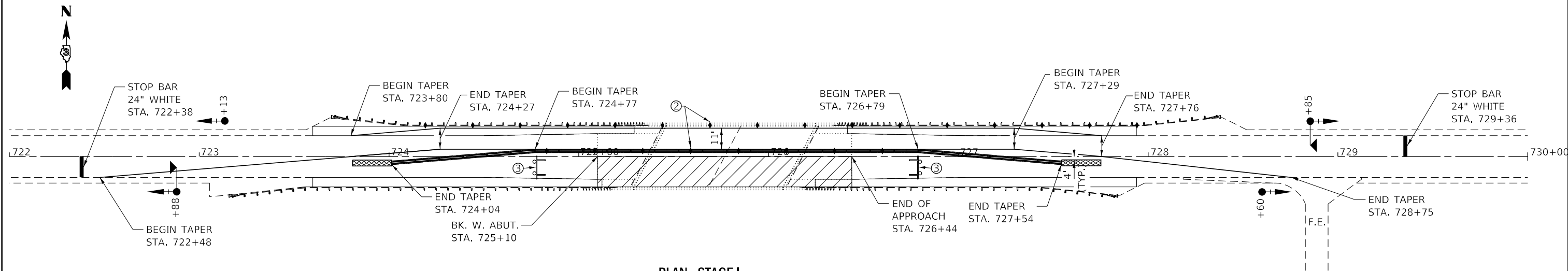
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**DEPARTMENT OF TRANSPORTATION**

**TRAFFIC CONTROL AND PROTECTION, STANDARD 701321**  
**ADVANCED SIGNING**

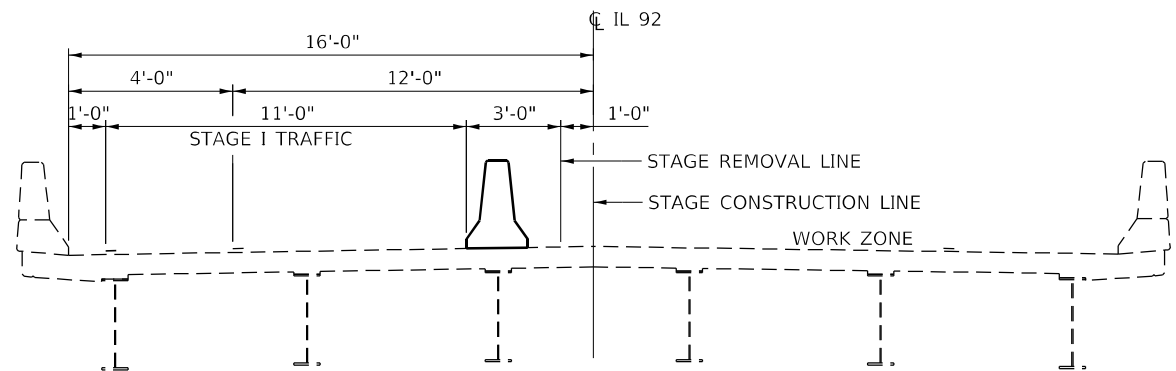
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F.A.P. RTE. 587	SECTION (140BR)BRR	COUNTY	TOTAL SHEETS 25	SHEET NO. 8
ILLINOIS FED. AID PROJECT			BUREAU CONTRACT NO. 66M74	





**PLAN - STAGE I**  
**STRUCTURE NO. 006-0153**



**CROSS SECTION**  
**STAGE I**  
LOOKING EAST

- ① TEMPORARY PAVEMENT MARKING OR EXISTING PAVEMENT SHALL BE ON BOTH SIDES OF THE OPEN LANE FROM STOP BAR TO STOP BAR.
- ② GURARDRAIL/BARRIER WALL REFLECTORS AT 25' CTS. SEE STANDARDS 782006 AND LINEAR DELINEATOR FOR TEMPORARY CONCRETE BARRIER DETAIL.
- ③ TYPE III BARRICADES SHALL BE PLACED WHEN NO WORK IS BEING PERFORMED.
- ④ THE EDGE OF THE POST MOUNED SIGNAL HEAD SHALL BE A MINIMUM OF 6' FROM THE EDGE OF PAVEMENT.

**GENERAL NOTES**

THIS STANDARD IS USED WHERE, AT ANY TIME, ANY VEHICLE, EQUIPMENT, WORKERS, OR THEIR ACTIVITIES WILL ENCROACH ON ONE LANE OF A BRIDGE. TRAFFIC SIGNALS AND A POSITIVE BARRIER ARE REQUIRED.

TRAFFIC SIGNALS SHALL BE OPERATIONAL ONLY WHEN ALL TRAFFIC CONTROLS ARE IN PLACE. WHEN TRAFFIC SIGNALS ARE NOT IN OPERATION, FLAGGERS SHALL BE USED AND TRAFFIC CONTROL SHALL CONFORM TO STANDARD 701201 OR 701206.

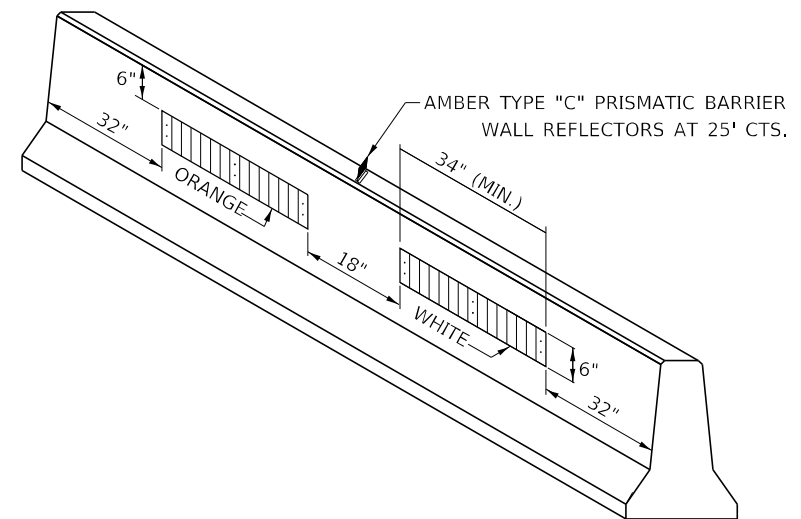
TEMPORARY CONCRETE BARRIER SHALL BE ACCORDING TO STANDARD 704001.

EXISTING OR TEMPORARY PAVEMENT MARKINGS SHALL BE ON BOTH SIDES OF OPEN LANE FROM STOP BAR TO STOP BAR.

TEMPORARY PAVEMENT MARKING AS SHOWN ON THIS DETAIL, SHALL NOT BE PAID FOR SEPARATELY BUT SHALL BE INCLUDED IN THE COST OF THE STANDARD.

COST OF LINEAR DELINEATOR PANELS AND PRISMATIC BARRIER WALL REFLECTORS SHALL BE INCLUDED IN THE COST OF THE TEMPORARY CONCRETE BARRIER.

COST OF PRISMATIC GUARDRAIL REFLECTORS SHALL BE INCLUDED IN THE COST OF THE TRAFFIC CONTROL STANDARD.



**LINEAR DELINEATOR PANELS**  
**FOR TEMPORARY CONCRETE BARRIER**

**LEGEND**

- WORK AREA
- SIGN
- TYPE III BARRICADE WITH STEADY BURN LIGHT
- TRAFFIC SIGNAL W/BACKPLATE
- TRAFFIC SIGNAL W/ BACKPLATE & MICROWAVE DETECTOR
- DRUMS @ 25' CTS. (TANGENT)
- DRUM WITH STEADY BURNING BI-DIRECTIONAL LIGHT @ 25' CTS. (TAPERS)
- TEMPORARY CONCRETE BARRIER
- CRYSTAL, BI-DIRECTIONAL BARRIER WALL/GUARDRAIL MARKER @ 25' CTS.
- IMPACT ATTENUATOR

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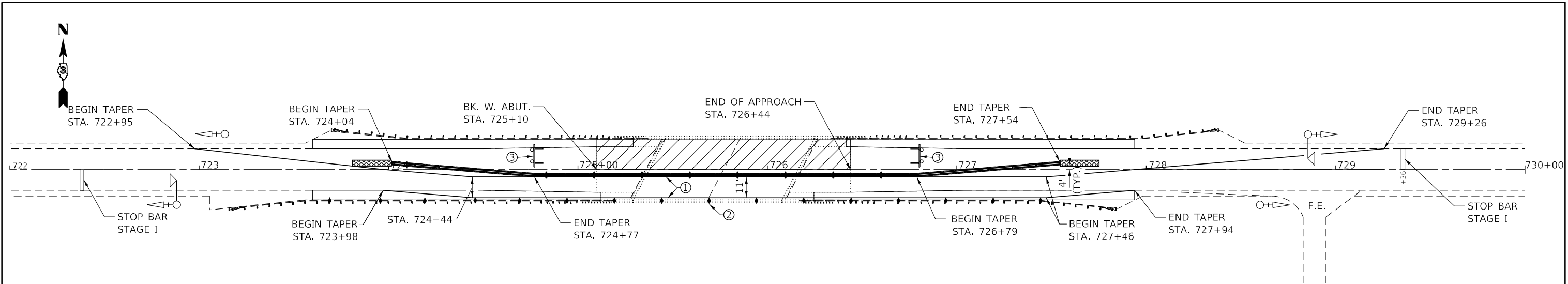
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PLOT DATE = 8/29/2022		

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

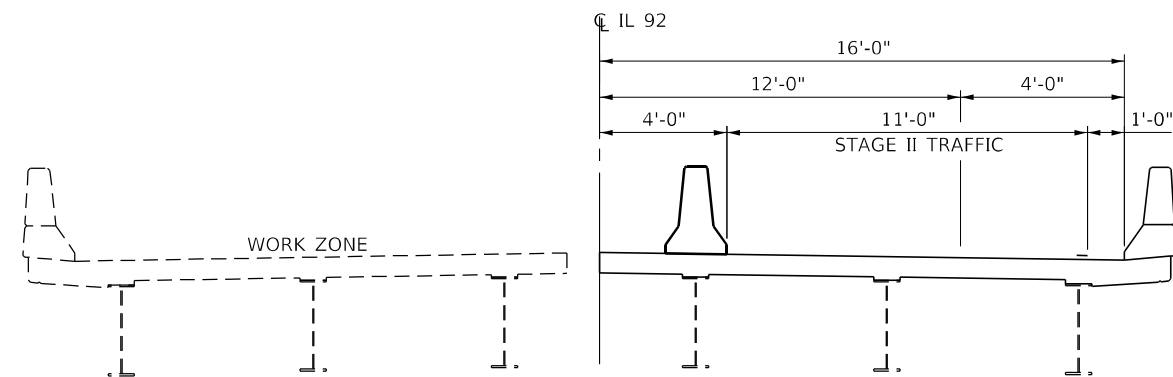
**TRAFFIC CONTROL AND PROTECTION, STANDARD 701321**  
**STAGE I**

F.A.P. RTE. 587	SECTION (140BR)BRR	COUNTY BUREAU	TOTAL SHEETS 25	SHEET NO. 9
CONTRACT NO. 66M74			ILLINOIS FED. AID PROJECT	

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













**PLAN - STAGE II**  
**STRUCTURE NO. 006-0153**



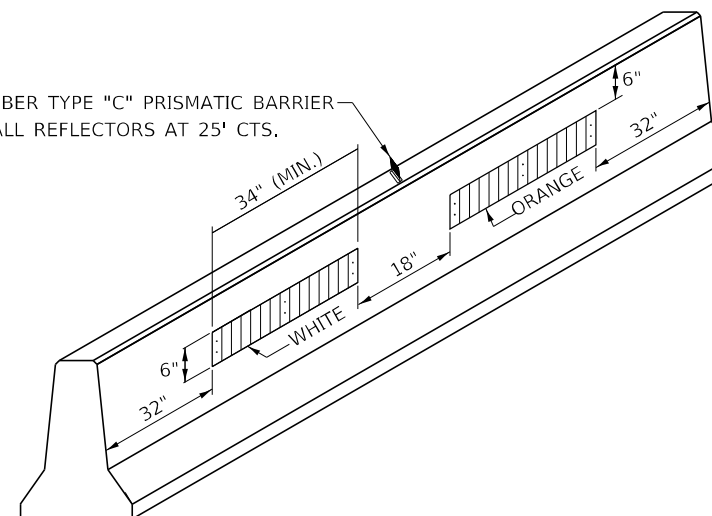
**CROSS SECTION**  
**STAGE II**

LOOKING EAST

**LEGEND**

- |   |   |   |   |
|---|---|---|---|
|  | WORK AREA   |  | DRUMS @ 25' CTS. (TANGENT)  |
|  | SIGN  |  | DRUM WITH STEADY BURNING BI-DIRECTIONAL LIGHT @ 25' CTS. (TAPERS)     |
|  | TYPE III BARRICADE WITH STEADY BURN LIGHT                             |  | RELOCATED TEMPORARY CONCRETE BARRIER                                  |
|  | TRAFFIC SIGNAL W/BACKPLATE INSTALLED IN STAGE I                       |  | CRYSTAL, BI-DIRECTIONAL BARRIER WALL/GUARDRAIL - INSTALLED IN STAGE I |
|  | TRAFFIC SIGNAL W/ BACKPLATE & MICROWAVE DETECTOR INSTALLED IN STAGE I |  | RELOCATED TEMPORARY IMPACT ATTENUATOR                                 |

AMBER TYPE "C" PRISMATIC BARRIER - WALL REFLECTORS AT 25' CTS.



**LINEAR DELINEATOR PANELS**  
**FOR TEMPORARY CONCRETE BARRIER**

- ① TEMPORARY PAVEMENT MARKING OR EXISTING PAVEMENT SHALL BE ON BOTH SIDES OF THE OPEN LANE FROM STOP BAR TO STOP BAR.
- ② GUARDRAIL/BARRIER WALL REFLECTORS AT 25' CTS. SEE STANDARDS 782006 AND LINEAR DELINEATOR FOR TEMPORARY CONCRETE BARRIER DETAIL.
- ③ TYPE III BARRICADES SHALL BE PLACED WHEN NO WORK IS BEING PERFORMED.
- ④ THE EDGE OF THE POST MOUNDED SIGNAL HEAD SHALL BE A MINIMUM OF 6' FROM THE EDGE OF PAVEMENT.

**GENERAL NOTES**

THIS STANDARD IS USED WHERE, AT ANY TIME, ANY VEHICLE, EQUIPMENT, WORKERS, OR THEIR ACTIVITIES WILL ENCOACH ON ONE LANE OF A BRIDGE, TRAFFIC SIGNALS AND A POSITIVE BARRIER ARE REQUIRED.

TRAFFIC SIGNALS SHALL BE OPERATIONAL ONLY WHEN ALL TRAFFIC CONTROLS ARE IN PLACE. WHEN TRAFFIC SIGNALS ARE NOT IN OPERATION, FLAGGERS SHALL BE USED AND TRAFFIC CONTROL SHALL CONFORM TO STANDARD 701201 OR 701206.

TEMPORARY CONCRETE BARRIER SHALL BE ACCORDING TO STANDARD 704001.

EXISTING OR TEMPORARY PAVEMENT MARKINGS SHALL BE ON BOTH SIDES OF OPEN LANE FROM STOP BAR TO STOP BAR.

TEMPORARY PAVEMENT MARKING AS SHOWN ON THIS DETAIL, SHALL NOT BE PAID FOR SEPARATELY BUT SHALL BE INCLUDED IN THE COST OF THE STANDARD.

COST OF LINEAR DELINEATOR PANELS AND PRISMATIC BARRIER WALL REFLECTORS SHALL BE INCLUDED IN THE COST OF THE TEMPORARY CONCRETE BARRIER.

COST OF PRISMATIC GUARDRAIL REFLECTORS SHALL BE INCLUDED IN THE COST OF THE TRAFFIC CONTROL STANDARD.

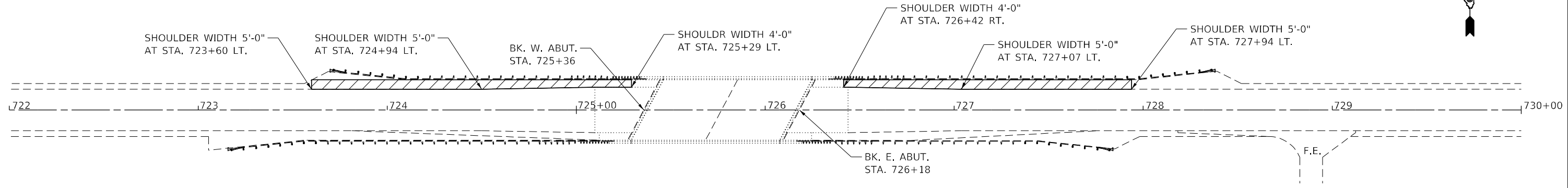
**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

**TRAFFIC CONTROL AND PROTECTION, STANDARD 701321**  
**STAGE II**

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
587	(140BR)BRR	BUREAU	25	10
CONTRACT NO. 66M74			ILLINOIS FED. AID PROJECT	

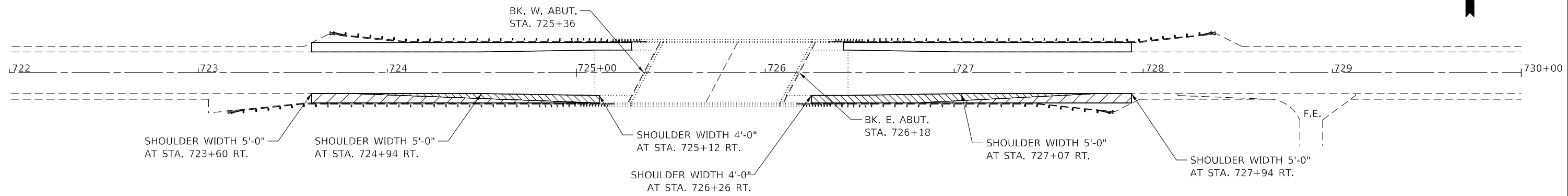
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**LEGEND**

- EARTH EXCAVATION (WIDENING)
- HOT-MIX ASPHALT SHOULDER 9"

**PLAN - PRE-STAGE  
SHOULDER WIDENING**



**LEGEND**

- EARTH EXCAVATION (WIDENING)
- PAVED SHOULDER REMOVAL
- HOT-MIX ASPHALT SHOULDER 9"

**PLAN  
STAGE I - CONSTRUCTION**

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**SHOULDER WIDENING DETAILS**

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
587	(140BR)BRR	BUREAU	25	11
CONTRACT NO. 66M74				

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

ILLINOIS FED. AID PROJECT

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### SCOPE OF WORK

1. REMOVE AND REPLACE EXISTING EXPANSION JOINTS'
2. REMOVE EXISTING BRIDGE APPROACH SLAB.
3. REMOVE EXISTING BRIDGE APPROACH SHOULDER PAVEMENT.
4. REMOVE EXISTING HMA/PCC PAVEMENT.
5. REMOVE EXISTING PAVED SHOULDER.
6. CONSTRUCT PCC BRIDGE APPROACH SLAB.
7. CONSTRUCT PCC PAVEMENT CONNECTOR FOR BRIDGE APPROACH SLAB.
8. PERFORM DECK SLAB REPAIRS.

### 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.

EXPANSION JOINTS SHALL BE AASHTO M 270 GRADE 36.

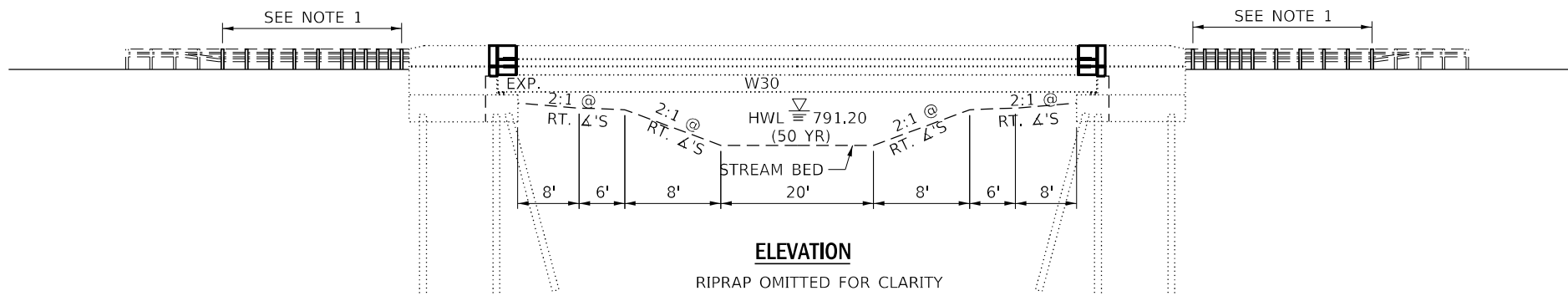
REINFORCEMENT BARS DESIGNATED (E) SHALL BE EPOXY COATED.

PRIOR TO POURING THE NEW CONCRETE DECK, ALL HEAVY OR LOOSE RUST, LOOSE MILL SCALE, AND OTHER LOOSE OR POTENTIALLY DETRIMENTAL FOREIGN MATERIAL SHALL BE REMOVED FROM THE SURFACES IN CONTACT WITH CONCRETE. 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 INCLUDED IN THE PAY ITEM COVERING REMOVAL OF THE EXISTING CONCRETE.

PROTECTIVE COAT SHALL BE APPLIED TO AREAS OF NEW CONCRETE ONLY.

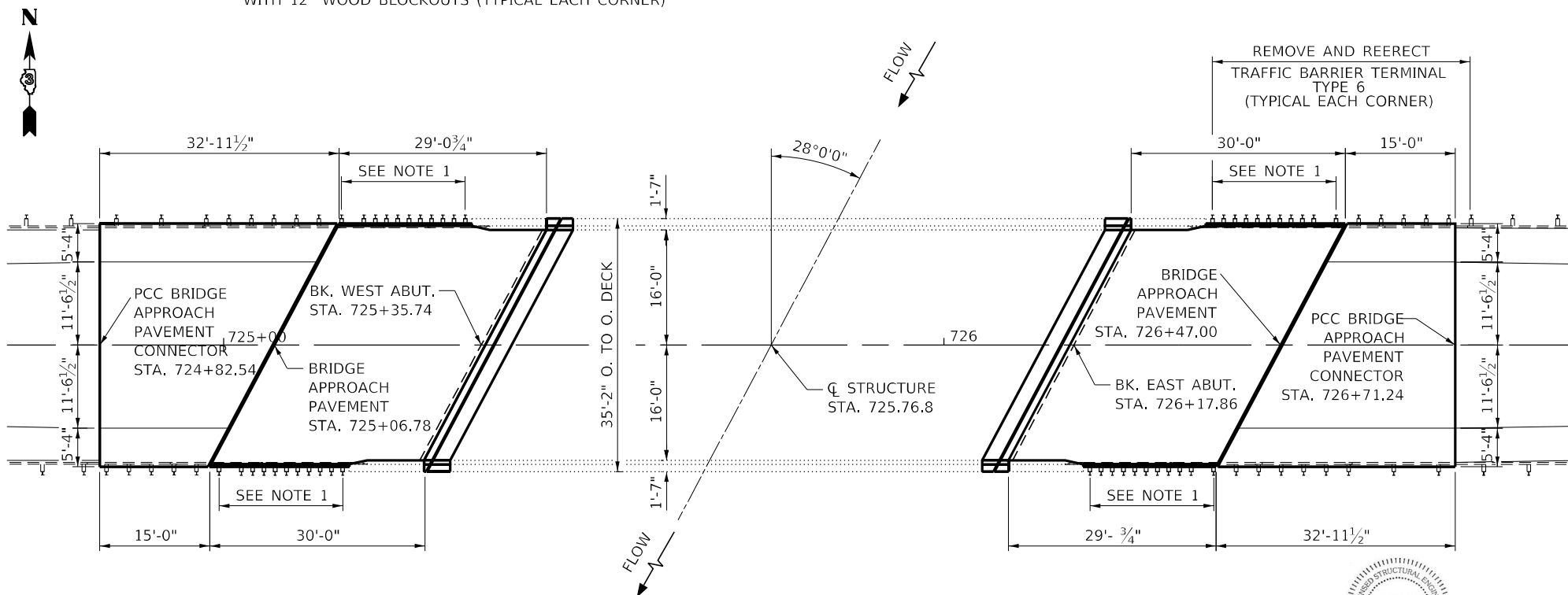
EXISTING REINFORCEMENT BARS EXTENDING INTO THE REMOVAL AREA SHALL BE CLEANED, STRAIGHTENED AND INCORPORATED INTO THE NEW CONSTRUCTION. ANY REINFORCEMENT BARS THAT ARE DAMAGED DURING CONCRETE REMOVAL SHALL BE REPLACED WITH AN APPROVED BAR SPLICER OR ANCHORAGE SYSTEM. COST INCLUDED WITH CONCRETE REMOVAL.

JOINT OPENING SHALL BE ADJUSTED ACCORDING TO ARTICLE 520.04 OF THE STANDARD SPECIFICATIONS WHEN THE DECK IS POURED AT AN AMBIENT TEMPERATURE OTHER THAN 50 DEGREES F.



NOTES:

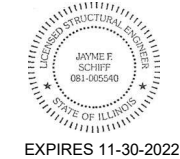
1. REMOVE AND RE-ERECT TRAFFIC BARRIER TERMINAL WITH 12" WOOD BLOCKOUTS (TYPICAL EACH CORNER)



**PLAN**  
**STRUCTURE NO. 006-0153**  
RIPRAP OMITTED FOR CLARITY

### TOTAL BILL OF MATERIAL

ITEM	UNIT	TOTAL
CONCRETE REMOVAL	CU. YD.	9.5
BRIDGE APPROACH SHOULDER REMOVAL	SQ. YD.	30
APPROACH SLAB REMOVAL	SQ. YD.	140
PAVEMENT REMOVAL	SQ. YD.	82
CONCRETE SUPERSTRUCTURE	CU. YD.	9.8
REINFORCEMENT BARS EPOXY COATED	POUND	37420
PROTECTIVE COAT	SQ. YD.	426
CONCRETE SUPERSTRUCTURE (APPROACH SLAB)	CU. YD.	89.6
CONCRETE STRUCTURES	CU. YD.	24
WELDED WIRE REINFORCEMENT	SQ. YD.	180
PAVEMENT CONNECTOR (PCC) FOR BRIDGE APPROACH SLAB	SQ. YD.	180
BRIDGE DECK GROOVING	SQ. YD.	396
POLYMER CONCRETE	CU. FT.	4
PREFORMED JOINT STRIP SEAL	FOOT	76
BAR SPLICERS	EACH	304
MECHANICAL SPLICERS	EACH	12
DECK SLAB REPAIR (PARTIAL)	SQ. YD.	37
DECK SLAB REPAIR (FULL DEPTH, TYPE II)	SQ. YD.	5



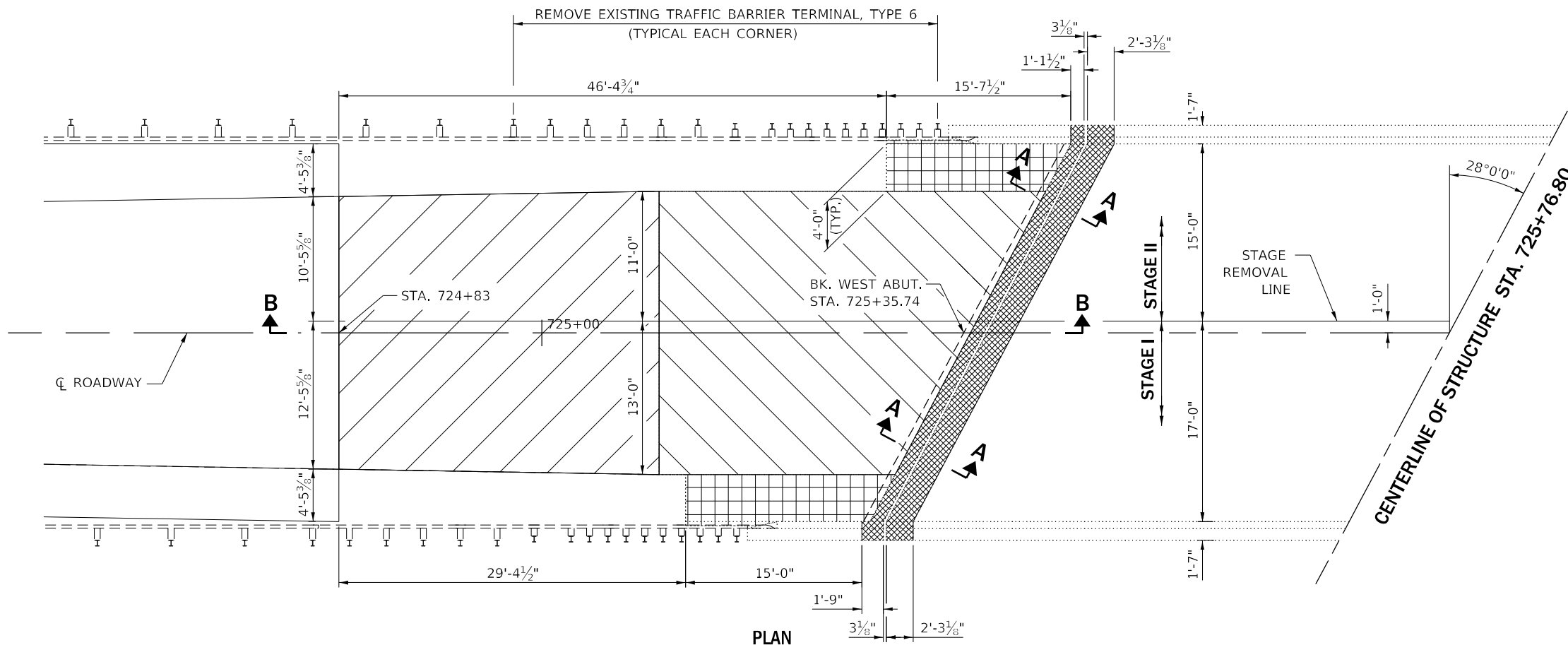
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

GENERAL PLAN AND ELEVATION  
FOR STRUCTURE NO. 006-0153

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
587	(140BR)BRR	BUREAU	25	12
CONTRACT NO. 66M74				
ILLINOIS / FED. AID PROJECT				

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

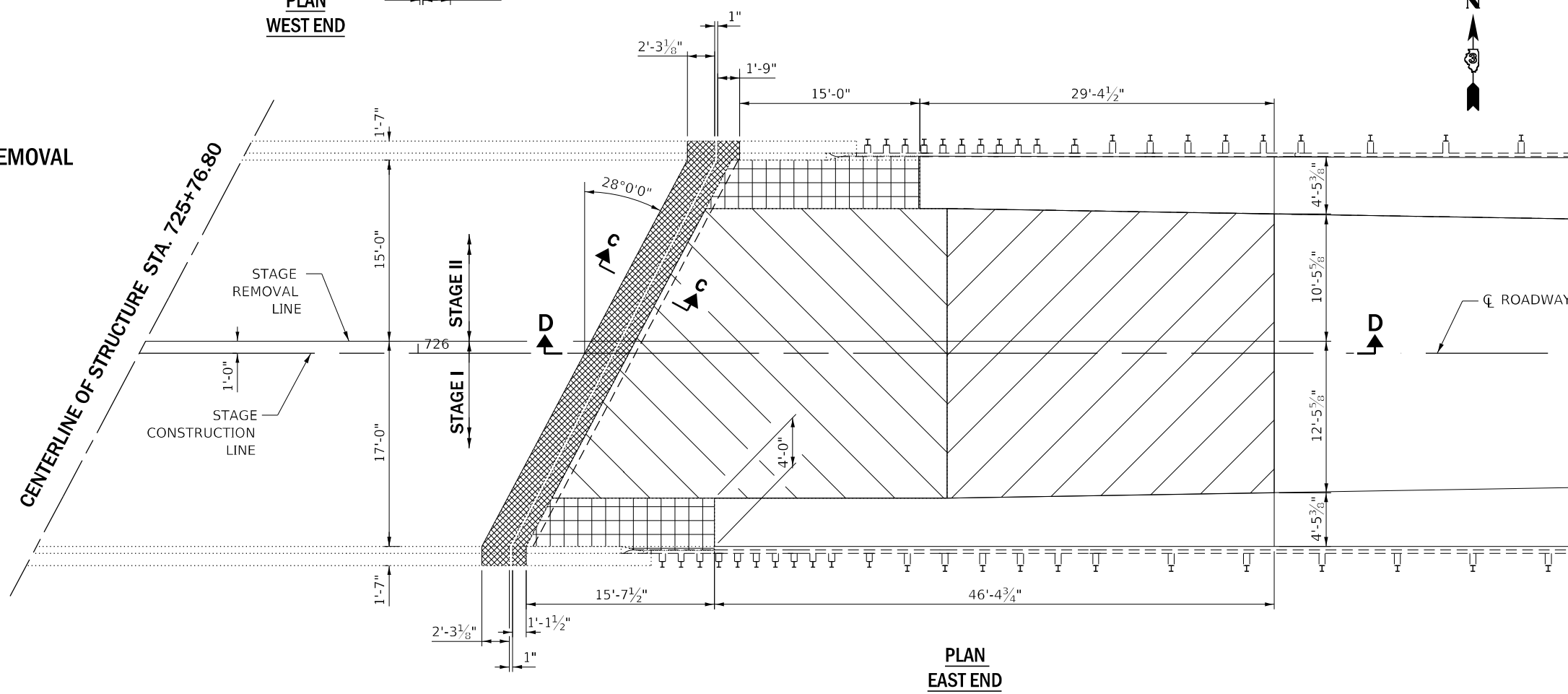
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PLAN  
WEST END

**LEGEND**

- CONCRETE REMOVAL**
- BRIDGE APPROACH SHOULDER REMOVAL**
- APPROACH SLAB REMOVAL**
- PAVEMENT REMOVAL (HMA)**



PLAN  
EAST END

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

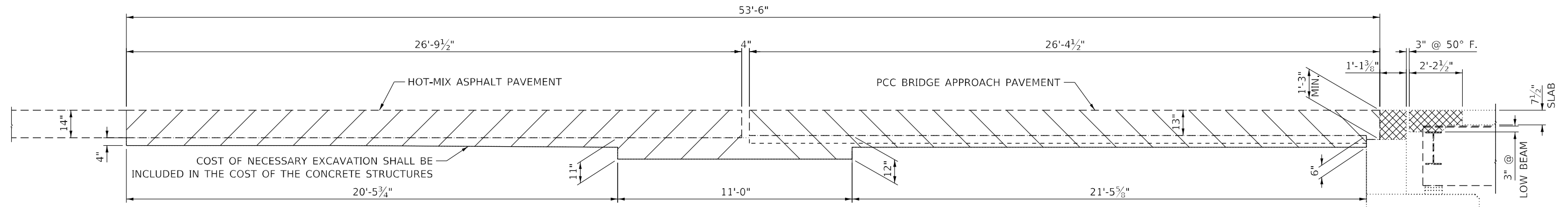
CONCRETE REMOVAL DETAILS  
FOR STRUCTURE NO. 006-0153

USER NAME = ronald.woodshank	DESIGNED - RW	REVISED -
	DRAWN - RW	REVISED -
PLOT SCALE = 100,0000' / in.	CHECKED - YP	REVISED -
PLOT DATE = 8/29/2022	DATE - 7/1/2022	REVISED -

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

F.A.P. RTE. 587	SECTION (140BR)BRR	COUNTY BUREAU	TOTAL SHEETS 25	SHEET NO. 13
ILLINOIS FED. AID PROJECT			CONTRACT NO. 66M74	

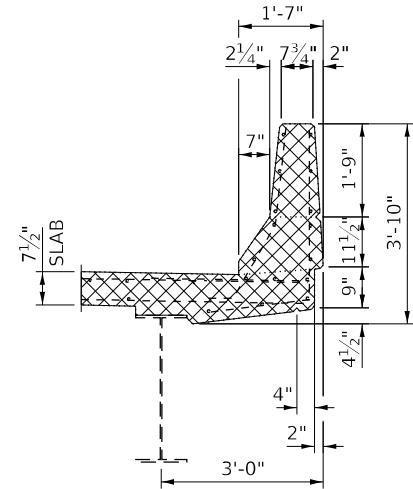
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**LEGEND**

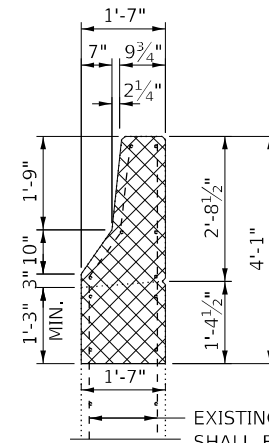
- CONCRETE REMOVAL
- APPROACH SLAB REMOVAL
- PAVEMENT REMOVAL (HMA)

**SECTION B-B**

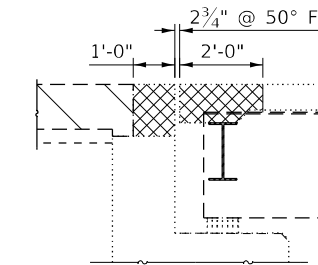


**SECTION THRU PARAPET**

**SECTION THRU WING WALL**



EXISTING REINFORCEMENT SHALL BE CUT OFF A MINIMUM OF 6" FROM REMOVAL LINE, CLEANED AND INCORPORATED INTO THE NEW CONSTRUCTION



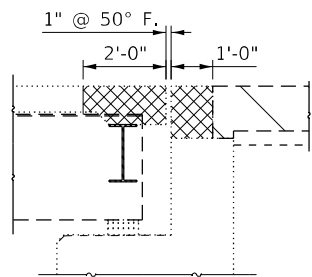
**SECTION A-A @ RT. Δ's**

**BILL OF MATERIAL WEST APPROACH**

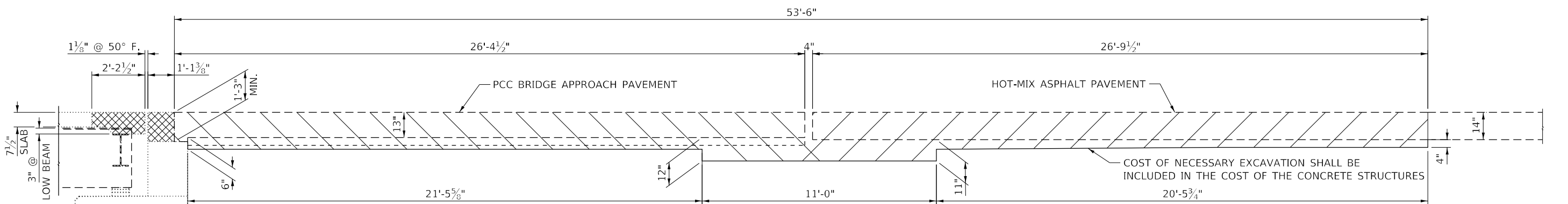
ITEM	UNIT	TOTAL
CONCRETE REMOVAL	CU YD	4.7
BRIDGE APPROACH SHOULDER REMOVAL	SQ YD	15
APPROACH SLAB REMOVAL	SQ YD	70
PAVEMENT REMOVAL (HMA)	SQ YD	41

**BILL OF MATERIAL EAST APPROACH**

ITEM	UNIT	TOTAL
CONCRETE REMOVAL	CU YD	4.8
BRIDGE APPROACH SHOULDER REMOVAL	SQ YD	15
APPROACH SLAB REMOVAL	SQ YD	70
PAVEMENT REMOVAL (HMA)	SQ YD	41



**SECTION C-C @ RT. Δ's**



**SECTION D-D**

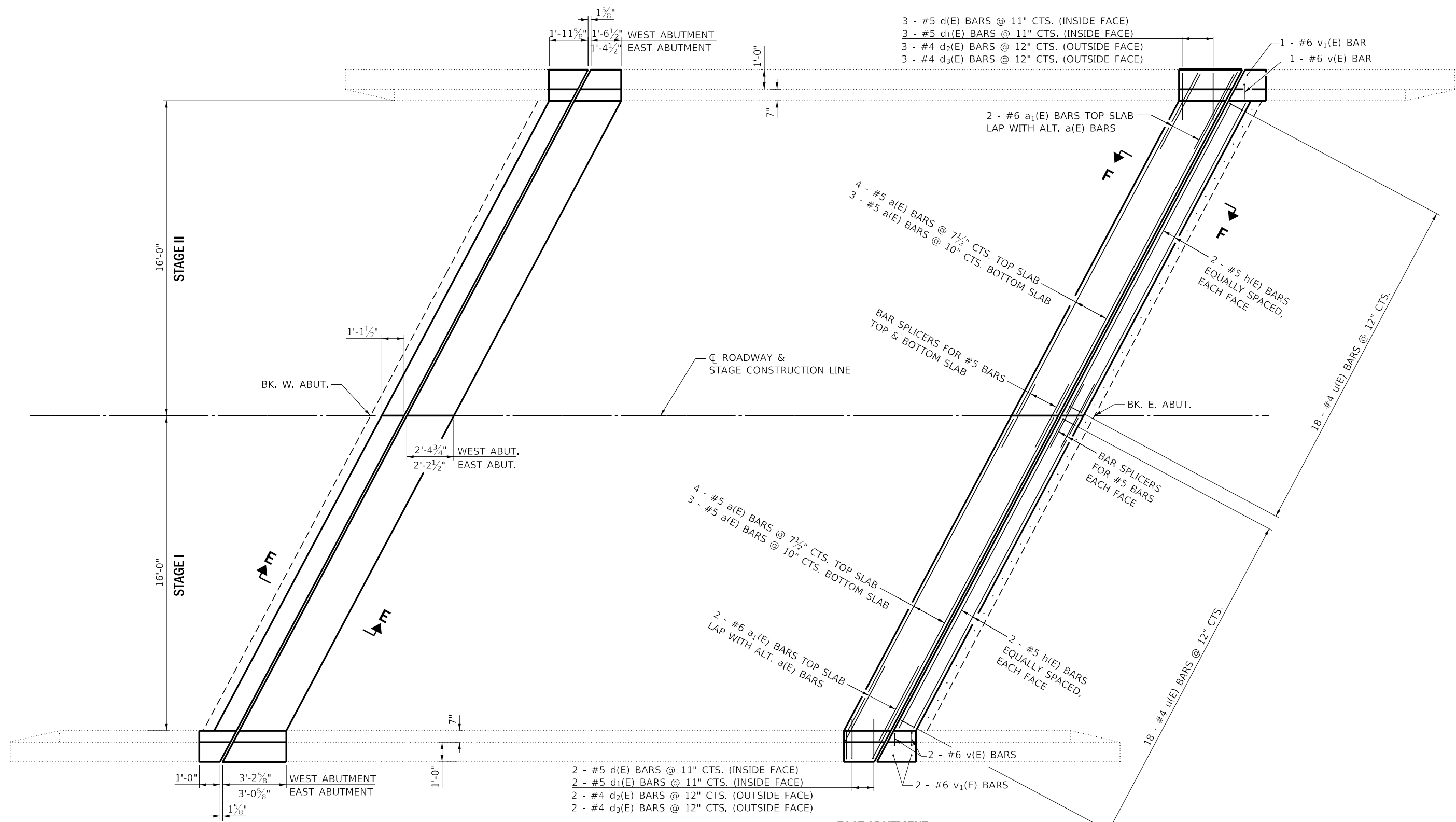
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

CONCRETE RECONSTRUCTION DETAILS  
FOR STRUCTURE NO. 006-0153

USER NAME = ronald.woodshank	DESIGNED - RW	REVISED -
	DRAWN - RW	REVISED -
PLOT SCALE = 100,0000' / in.	CHECKED - YP	REVISED -
PLOT DATE = 8/29/2022	DATE - 7/1/2022	REVISED -

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
587	(140BR)BRR	BUREAU	25	14
			CONTRACT NO. 66M74	
ILLINOIS FED. AID PROJECT				



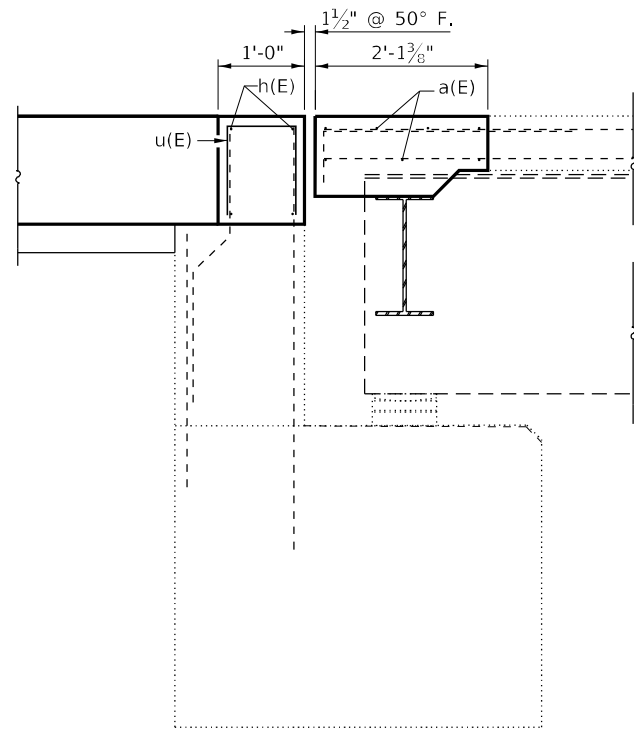
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 PROJECT: 36667

USER NAME = ronald.woodshank	DESIGNED - RW	REVISED -
DRAWN - RW	REVISIONS -	
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PLOT DATE = 8/29/2022	DATE - 7/1/2022	REVISED -

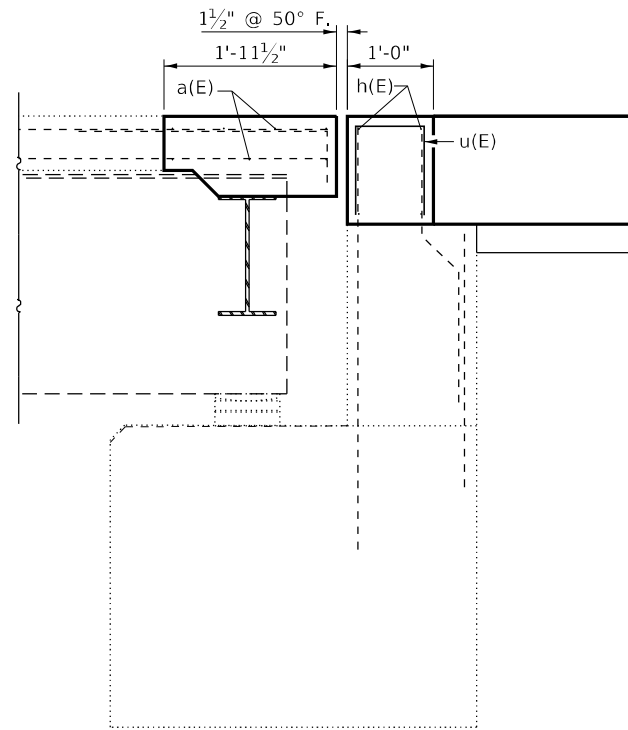
**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

<b>CONCRETE RECONSTRUCTION FOR EXPANSION JOINT</b> <b>FOR STRUCTURE NO. 006-0153</b>	
SCALE:	SHEET 1 OF 1 SHEETS STA. TO STA.

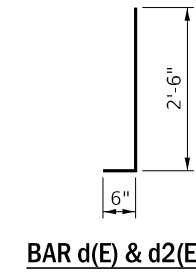
F.A.P. RTE. 587	SECTION (140BR)BRR	COUNTY BUREAU	TOTAL SHEETS 25	SHEET NO. 15
CONTRACT NO. 66M74				
ILLINOIS FED. AID PROJECT				



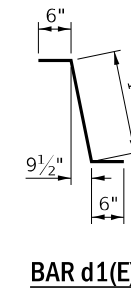
**SECTION E-E**  
@ RT. Δ's



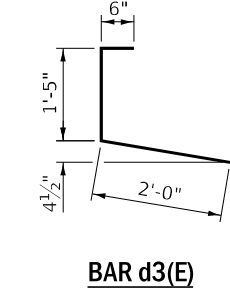
**SECTION F-F**  
@ RT. Δ's



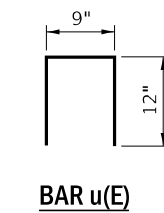
**BAR d(E) & d2(E)**



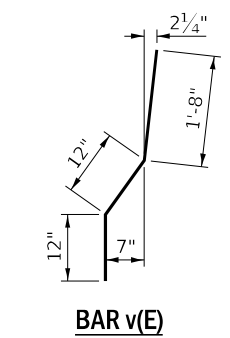
**BAR d1(E)**



**BAR d3(E)**

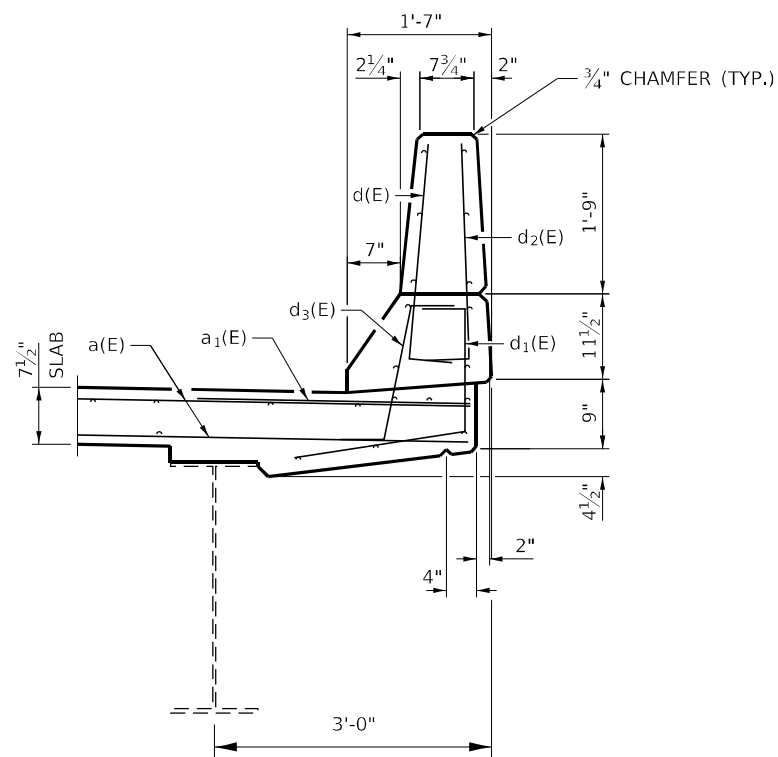


**BAR u(E)**

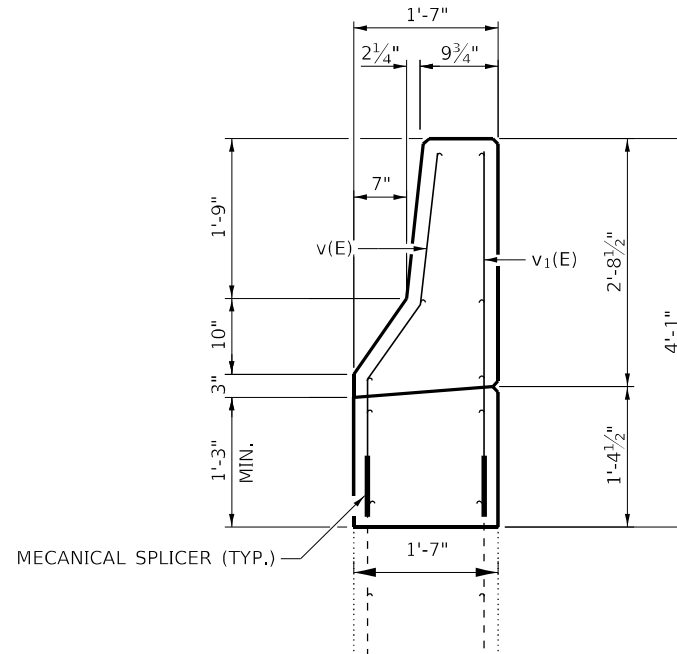


**BAR v(E)**

NOTE: ALL NEW CONCRETE SHALL BE CONSIDERED AS "CONCRETE SUPERSTRUCTURE"



**SECTION THRU PARAPET**



**SECTION THRU WING WALL**

**BILL OF MATERIAL WEST ABUTMENT**

BAR	NO.	SIZE	LENGTH	SHAPE
a(E)	14	#5	19'-7"	—
a1(E)	4	#6	4'-0"	—
d(E)	5	#5	3'-0"	┌
d1(E)	5	#5	2'-7"	┌
d2(E)	5	#4	3'-0"	┌
d3(E)	5	#4	3'-11"	┌
h(E)	8	#5	17'-10"	—
u(E)	36	#4	2'-9"	U
v(E)	3	#6	3'-8"	┌
v1(E)	3	#6	3'-5"	┌
CONCRETE SUPERSTRUCTURE			CU. YD.	5.1
REINFORCEMENT BARS, EPOXY COATED			POUND	610
BRIDGE DECK GROOVING			SQ YD	12
PROTECTIVE COAT			SQ YD	16

**BILL OF MATERIAL EAST ABUTMENT**

BAR	NO.	SIZE	LENGTH	SHAPE
a(E)	14	#5	19'-7"	—
a1(E)	4	#6	4'-0"	—
d(E)	5	#5	3'-0"	┌
d1(E)	5	#5	2'-7"	┌
d2(E)	5	#4	3'-0"	┌
d3(E)	5	#4	3'-11"	┌
h(E)	8	#5	17'-10"	—
u(E)	36	#4	2'-9"	U
v(E)	3	#6	3'-8"	┌
v1(E)	3	#6	3'-5"	┌
CONCRETE SUPERSTRUCTURE			CU. YD.	4.7
REINFORCEMENT BARS, EPOXY COATED			POUND	610
BRIDGE DECK GROOVING			SQ YD	12
PROTECTIVE COAT			SQ YD	16

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

CONCRETE RECONSTRUCTION DETAILS  
FOR STRUCTURE NO. 006-0153

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
587	(140BR)BRR	BUREAU	25	16
CONTRACT NO. 66M74				
ILLINOIS FED. AID PROJECT				

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

MODEL: Default  
FILE: 366m74.dwg  
PROJECT: 366m74.dwg  
DATE: 8/29/2022

USER NAME	DESIGNED	REVISION
ronald.woodshank	RW	-
	RW	-
	YP	-
		-

DESIGNED	REVISION
RW	-
RW	-
YP	-
	-

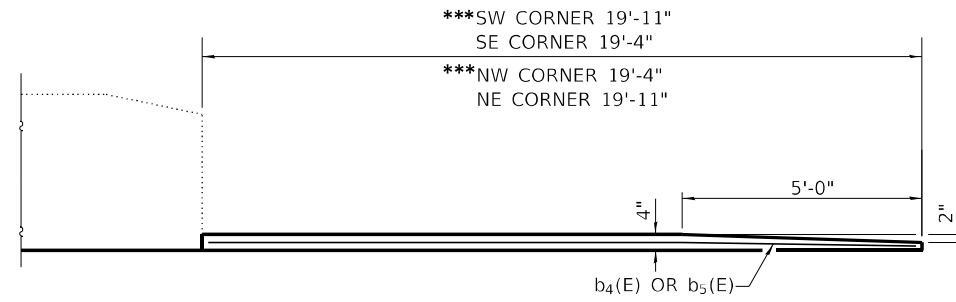
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PLOT DATE = 8/29/2022

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DATE - 7/1/2022

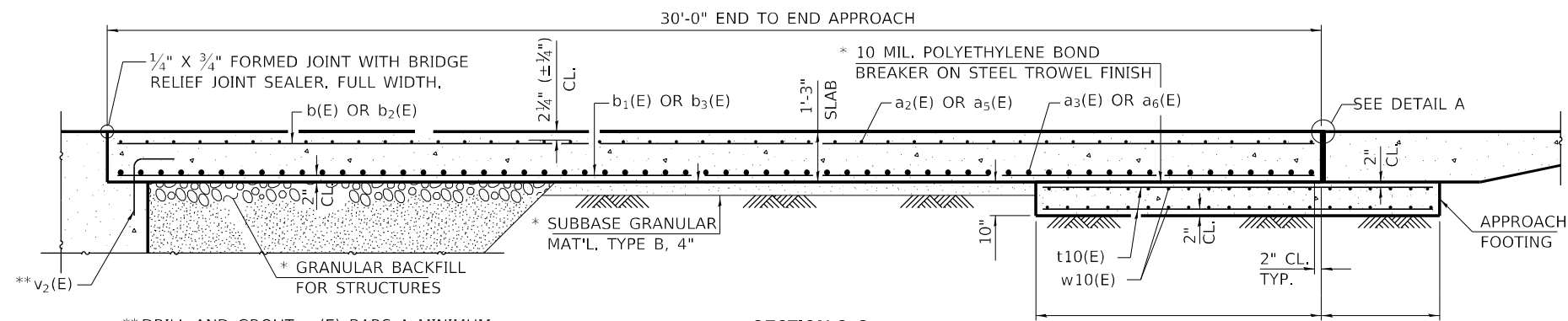
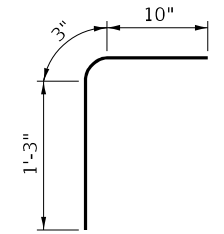
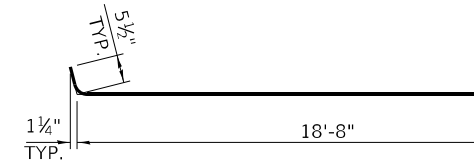
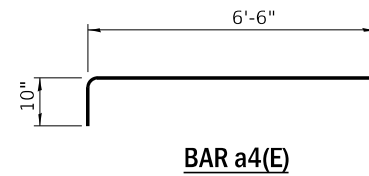




\*\*\*AS MEASURED ALONG INSIDE FACE OF CURB

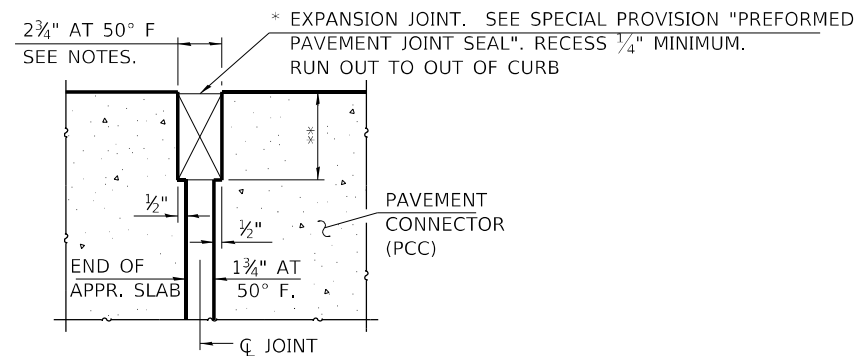


**INSIDE ELEVATION OF PARAPET AND CURB**



**SECTION G-G**

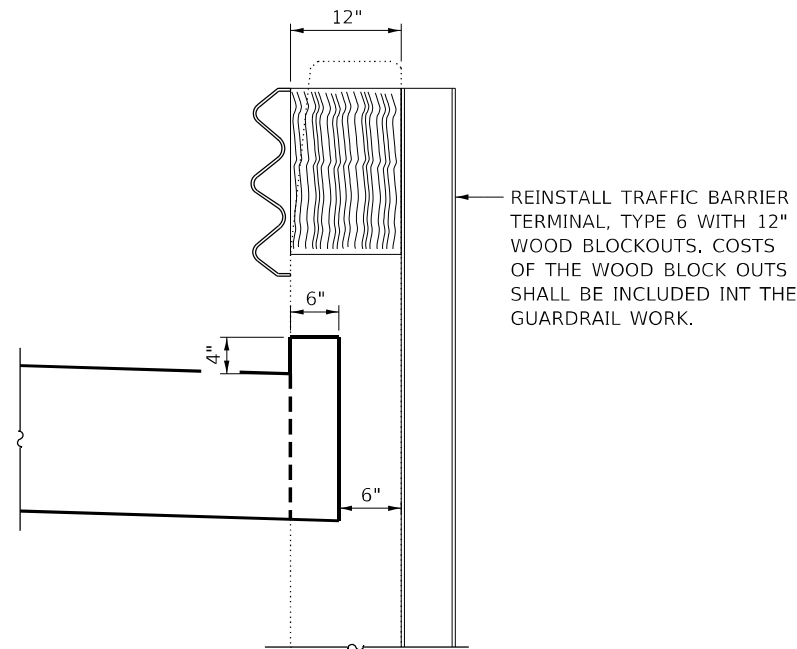
\*\* DRILL AND GROUT v<sub>2</sub>(E) BARS A MINIMUM OF 9" INTO EXISTING CONCRETE ACCORDING TO SECTION 584 OF THE STANDARD SPECIFICATIONS, COST INCLUDED IN THE REINFORCEMENT.



**DETAIL A**  
(AT RT. Z'S)

\* COST INCLUDED WITH CONCRETE SUPERSTRUCTURE (APPROACH SLAB).

\*\* PER MANUFACTURER RECOMMENDATIONS



**SECTION AT CURB**

**BILL OF MATERIAL WEST APPROACH**

BAR	NO.	SIZE	LENGTH	SHAPE
a2(E)	20	#5	17'-8"	—
a3(E)	28	#8	17'-8"	—
a4(E)	20	#5	7'-4"	—
a5(E)	56	#5	19'-1"	—
a6(E)	76	#8	18'-10"	—
b(E)	48	#5	29'-8"	—
b1(E)	74	#9	29'-8"	—
b2(E)	2	#5	19'-4"	—
b3(E)	2	#9	19'-4"	—
b4(E)	1	#5	18'-5"	—
b5(E)	1	#5	19'-3"	—
t(E)	68	#4	11'-1"	—
v2(E)	36	#5	2'-4"	└
w(E)	80	#5	18'-10"	—
CONCRETE SUPERSTRUCTURE (APPROACH SLAB)			CU. YD.	44.8
CONCRETE STRUCTURES			CU. YD.	12
REINFORCEMENT BARS, EPOXY COATED			POUND	18100
BRIDGE DECK GROOVING			SQ YD	101
PROTECTIVE COAT			SQ YD	107

**BILL OF MATERIAL EAST APPROACH**

BAR	NO.	SIZE	LENGTH	SHAPE
a2(E)	20	#5	17'-8"	—
a3(E)	28	#8	17'-8"	—
a4(E)	20	#5	7'-4"	—
a5(E)	56	#5	19'-1"	—
a6(E)	76	#8	18'-10"	—
b(E)	48	#5	29'-8"	—
b1(E)	74	#9	29'-8"	—
b2(E)	2	#5	19'-4"	—
b3(E)	2	#9	19'-4"	—
b4(E)	1	#5	18'-5"	—
b5(E)	1	#5	19'-3"	—
t(E)	68	#4	11'-1"	—
v2(E)	36	#5	2'-4"	└
w(E)	80	#5	18'-10"	—
CONCRETE SUPERSTRUCTURE (APPROACH SLAB)			CU. YD.	44.8
CONCRETE STRUCTURES			CU. YD.	12
REINFORCEMENT BARS, EPOXY COATED			POUND	18100
BRIDGE DECK GROOVING			SQ YD	101
PROTECTIVE COAT			SQ YD	107

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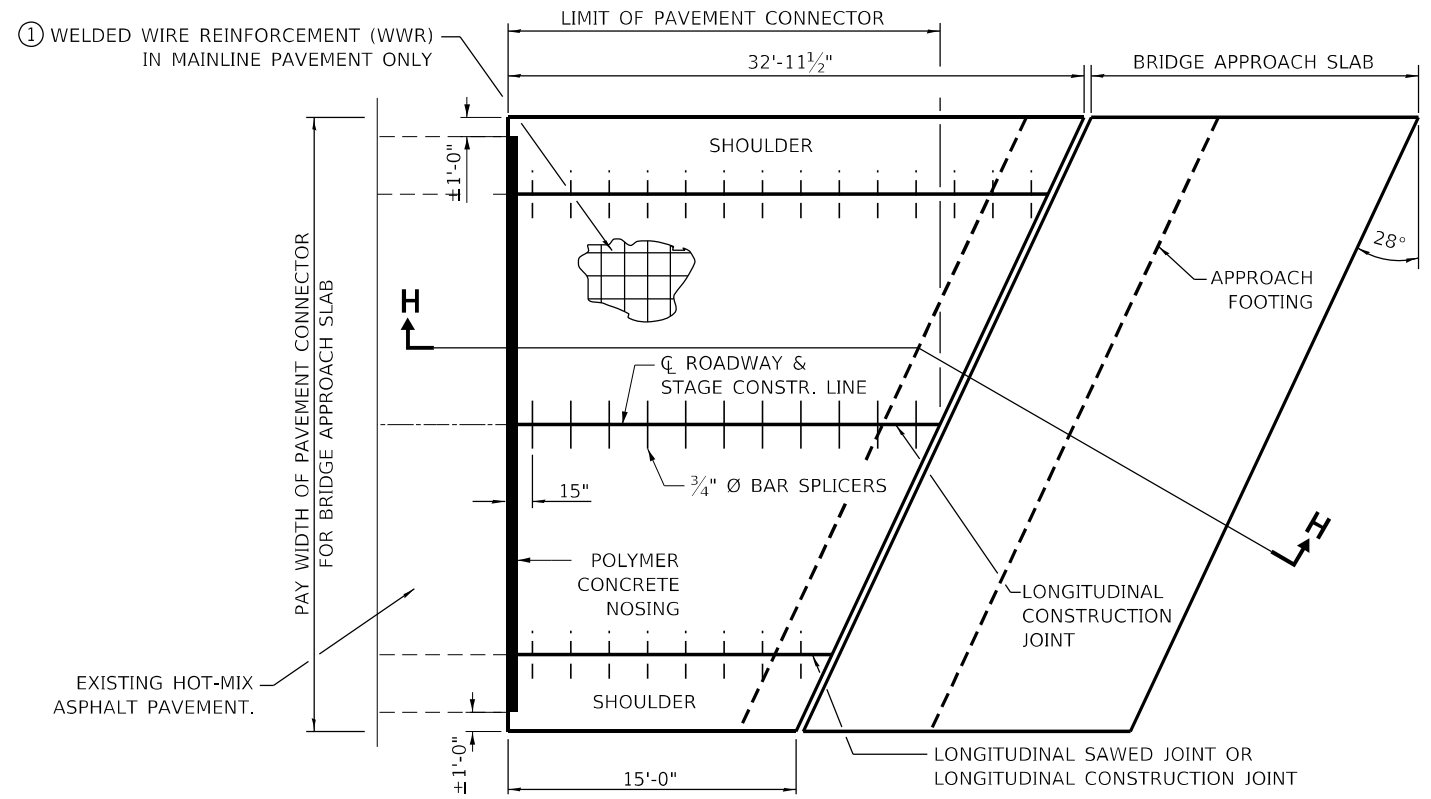
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**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

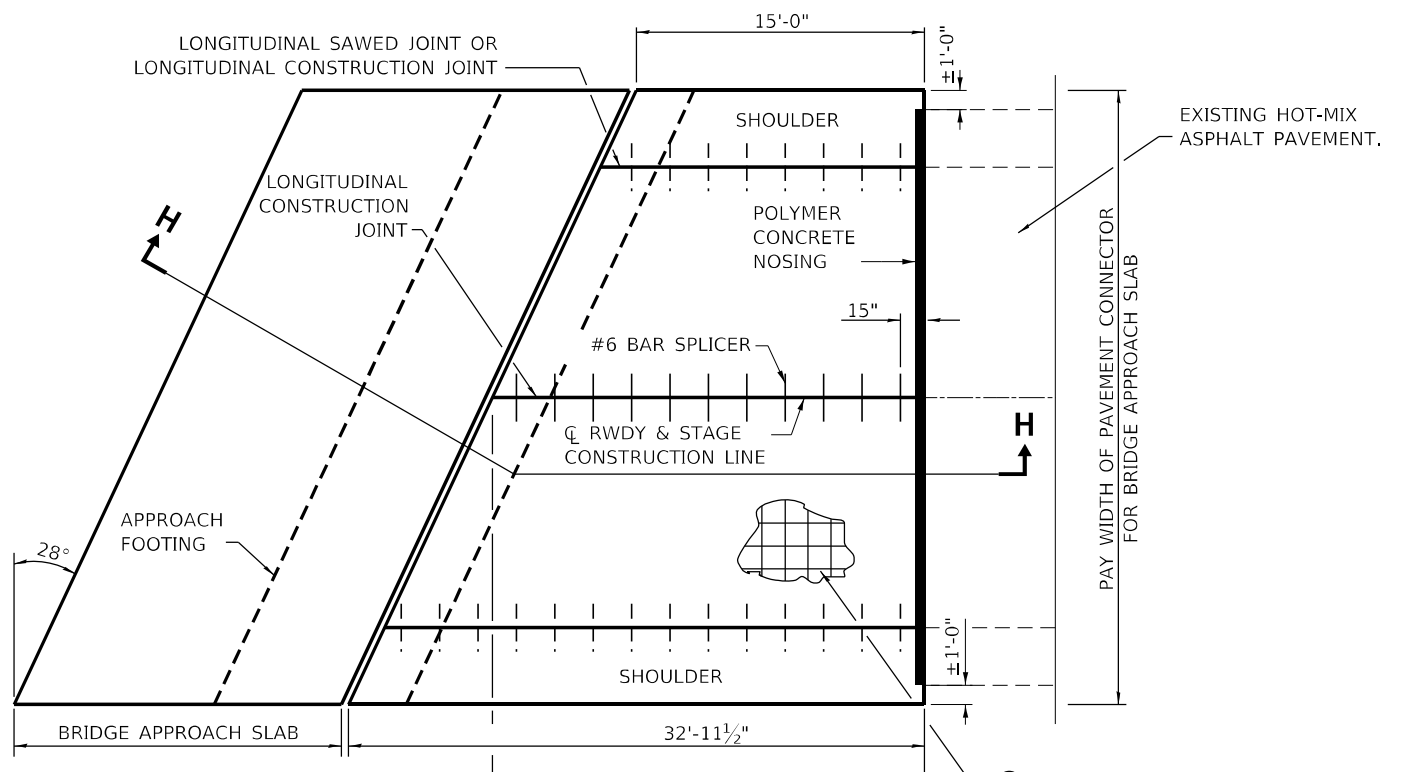
**PREFORMED JOINT STRIP SEAL DETAILS  
FOR STRUCTURE NO. 006-0153**

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

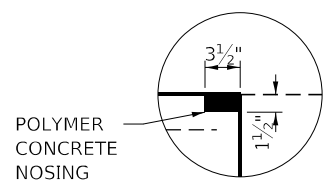
F.A.P. RTE. 587	SECTION (140BR)BRR	COUNTY BUREAU	TOTAL SHEETS 25	SHEET NO. 18
ILLINOIS FED. AID PROJECT			CONTRACT NO. 66M74	



**PLAN AT WEST ABUTMENT**



**PLAN AT EAST ABUTMENT**



**DETAIL A**

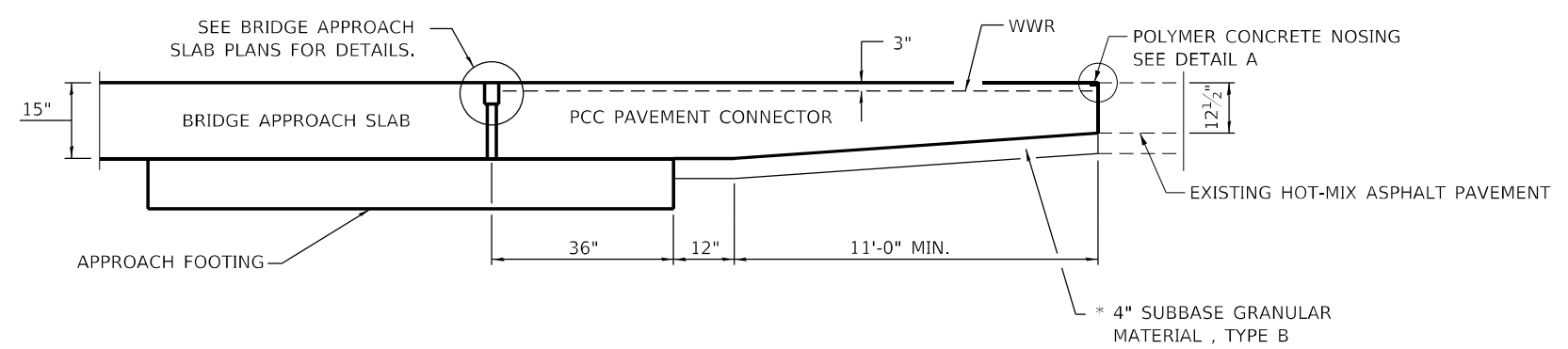
① WWR SHALL BE 0.11 SQ. IN./FT. IN BOTH DIRECTIONS. MAXIMUM WIRE SPACING SHALL BE 6. MINIMUM LAP DISTANCE SHALL BE TWO CROSS WIRES.

**BILL OF MATERIAL WEST APPROACH**

ITEM	UNIT	TOTAL
WELDED WIRE REINFORCEMENT	SQ YD	90
PAVEMENT CONNECTOR (PCC) FOR BRIDGE APPROACH SLAB	SQ YD	90
POLYMER CONCRETE	CU FT	2
BRIDGE DECK GROOVING	SQ YD	85
PROTECTIVE COAT	SQ YD	90

**BILL OF MATERIAL EAST APPROACH**

ITEM	UNIT	TOTAL
WELDED WIRE REINFORCEMENT	SQ YD	90
PAVEMENT CONNECTOR (PCC) FOR BRIDGE APPROACH SLAB	SQ YD	90
POLYMER CONCRETE	CU FT	2
BRIDGE DECK GROOVING	SQ YD	85
PROTECTIVE COAT	SQ YD	90



**SECTION H-H**

\* COST INCLUDED WITH CONCRETE SUPERSTRUCTURE (APPROACH SLAB).

**GENERAL NOTES**

- THICKNESS-"T"=THICKNESS OF PAVEMENT.
- COST OF FURNISHING MATERIALS AND CONSTRUCTION OF THE LONGITUDINAL SAWED JOINT SHALL BE INCLUDED IN THE COST OF THE BRIDGE APPROACH PAVEMENT CONNECTOR.
- SEE STANDARD 420001 FOR PAVEMENT JOINT DETAILS NOT SHOWN.
- SEE PLANS FOR DETAILS OF BRIDGE APPROACH SLAB, APPROACH FOOTING AND JOINT TREATMENT.
- ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE SHOWN.

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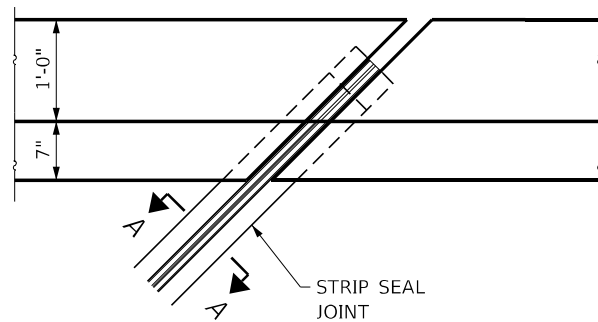
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**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**PAVEMENT CONNECTOR (PCC)  
FOR BRIDGE APPROACH SLAB**

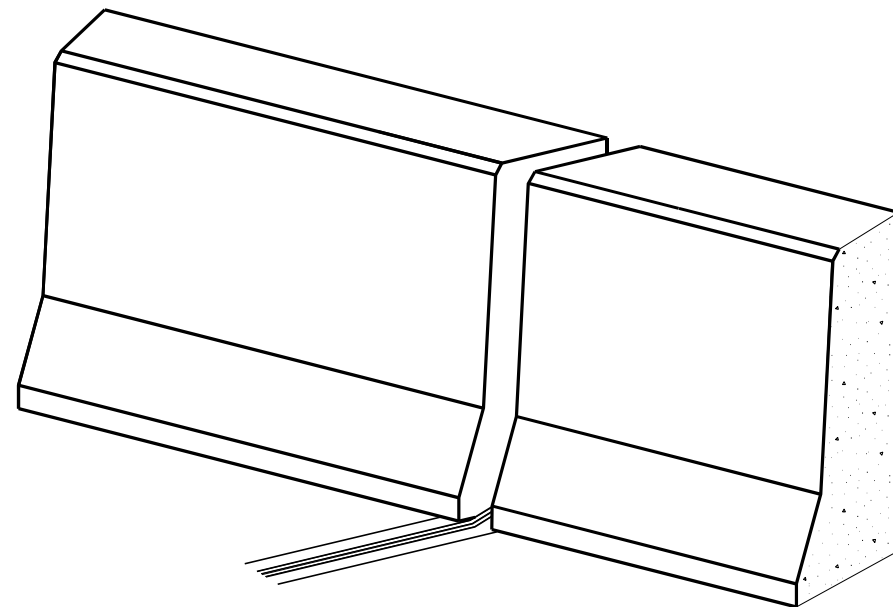
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F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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			CONTRACT NO. 66M74	
ILLINOIS FED. AID PROJECT				



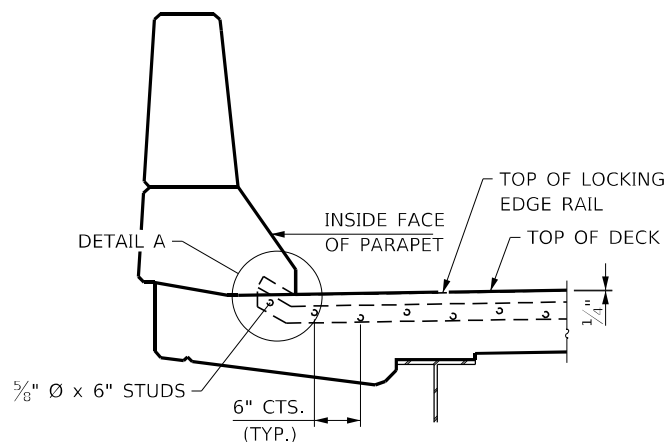
FOR SKEWS > 30°

**PLAN AT PARAPET**



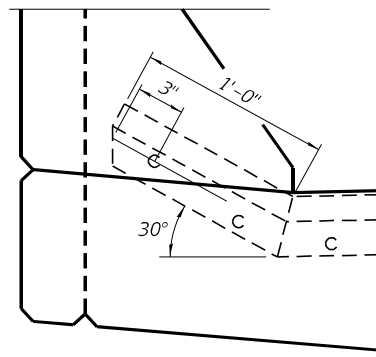
**TRIMETRIC VIEW**

(Showing embedded plates only)

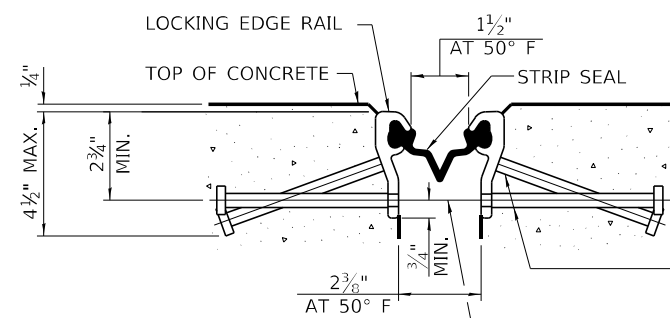


**PARAPET ELEVATION AT JOINT**

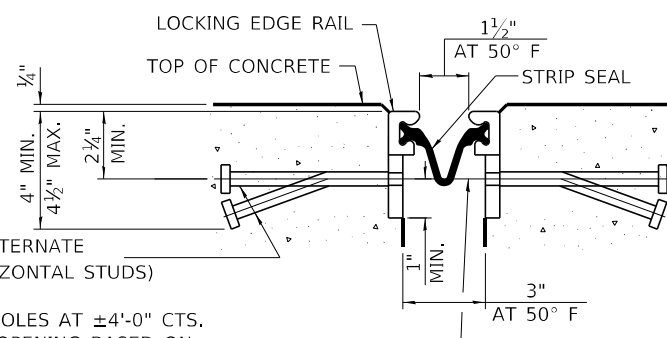
(SKEWS > 30° SHOWN. SKEWS ≤ 30° SIMILAR EXCEPT AS SHOWN IN PLAN VIEW.)



**DETAIL A**



**SHOWING ROLLED RAIL JOINT**



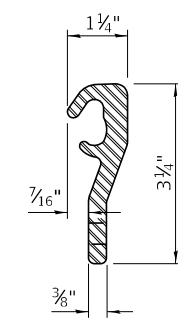
**SHOWING WELDED RAIL JOINT**

\* 5/8" Ø X 6" STUDS @ 6" CTS. (ALTERNATE ANGLED/BENT STUDS WITH HORIZONTAL STUDS)

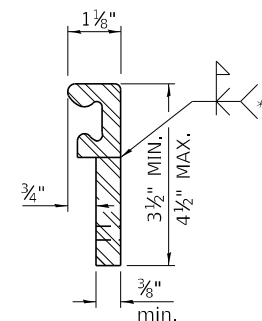
3/8" Ø THREADED RODS IN 7/16" Ø HOLES AT ±4'-0" CTS. FOR HOLDING THE PROPER JOINT OPENING BASED ON THE TEMPERATURE DURING THE DECK POUR. PLACE TO MISS STUDS. ALL RODS SHALL BE BURNED, OR SAWED OFF FLUSH WITH THE PLATES AFTER CONCRETE IS SET.

**SECTION A-A**

\* GRANULAR OR SOLID FLUX FILLED HEADED STUDS CONFORMING TO ARTICLE 1006.32 OF THE STD. SPECS., AUTOMATICALLY END WELDED.



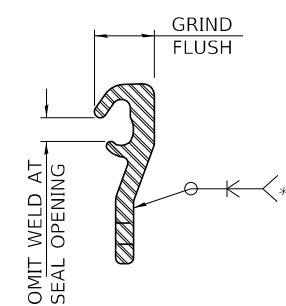
**ROLLED (EXTRUDED) RAIL**



**WELDED RAIL**

**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.

**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 1/16" 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 PARAPET SLIDING PLATES, EMBEDDED PLATES, AND ANCHORAGE STUDS INCLUDED WITH PREFORMED JOINT STRIP SEAL.

39" CONSTANT SLOPE BARRIER SHOWN, 44" CONSTANT SLOPE BARRIER SIMILAR AS NOTED.

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.

**BILL OF MATERIAL**

LOCATION	ITEM	UNIT	TOTAL
W. ABUT.	PREFORMED JOINT STRIP SEAL	FOOT	38
E. ABUT.	PREFORMED JOINT STRIP SEAL	FOOT	38

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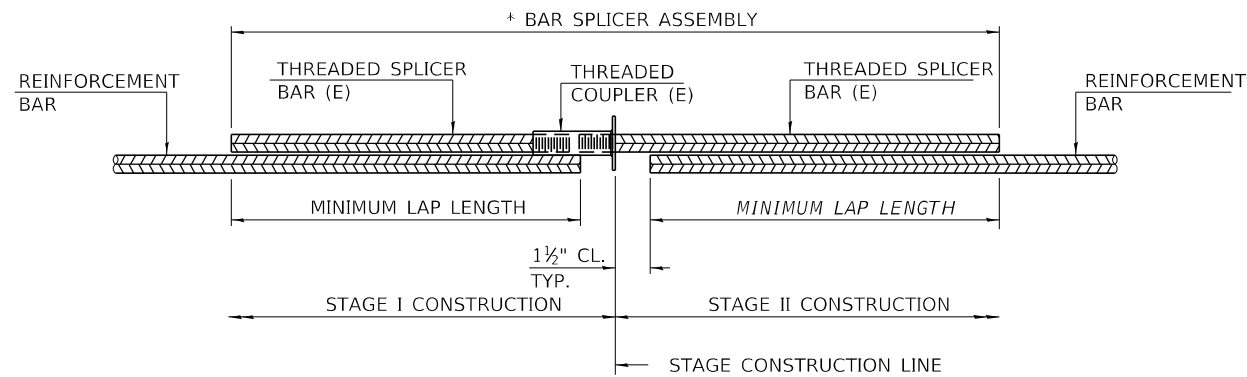
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**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**PREFORMED JOINT STRIP SEAL DETAILS  
FOR STRUCTURE NO. 006-0153**

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

F.A.P. RTE. 587	SECTION (140BR)BRR	COUNTY BUREAU	TOTAL SHEETS 25	SHEET NO. 20
			CONTRACT NO. 66M74	
ILLINOIS FED. AID PROJECT				



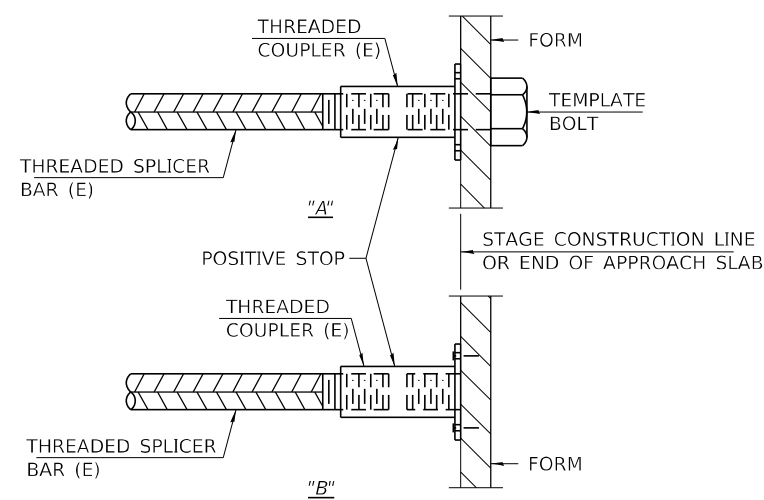
**STANDARD BAR SPLICER ASSEMBLY PLAN**  
(ALL COMPONENTS SHALL BE PROVIDED FROM ONE SUPPLIER)

THREADED SPLICER BAR LENGTH = MIN. LAP LENGTH + 1 1/2" + THREAD LENGTH

\* EPOXY NOT REQUIRED ON BAR SPLICER ASSEMBLY COMPONENTS USED IN CONJUNCTION WITH BLACK BARS.

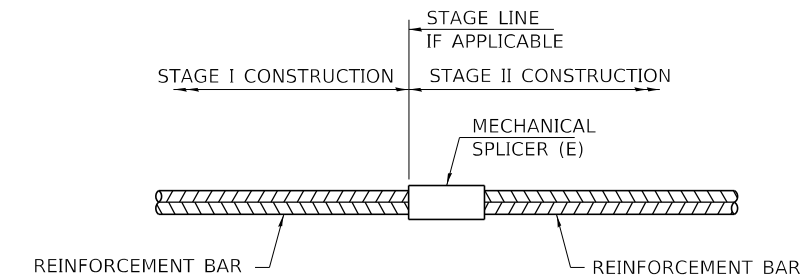
LOCATION	BAR SIZE	NO. ASSEMBLIES REQUIRED	MINIMUM LAP LENGTH
W. ABUT. BLOCK	#5	4	3'-0"
W. END DECK	#5	7	3'-0"
W. APPROACH SLAB	#5	38	3'-0"
	#8	52	5'-11"
W. APPR. FOOTING	#5	40	3'-0"
W. APPROACH PAVE'T CONNECTOR	#6	11	2'-0"

LOCATION	BAR SIZE	NO. ASSEMBLIES REQUIRED	MINIMUM LAP LENGTH
E. ABUT. BLOCK	#5	4	3'-0"
E. END DECK	#5	7	3'-0"
E. APPROACH SLAB	#5	38	3'-0"
	#8	52	5'-11"
E. APPR. FOOTING	#5	40	3'-0"
E. APPROACH PAVE'T CONNECTOR	#6	11	2'-0"



**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
WEST ABUT. WING WALLS	#6	6
EAST ABUT. WING WALLS	#6	6

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

1-1-2020

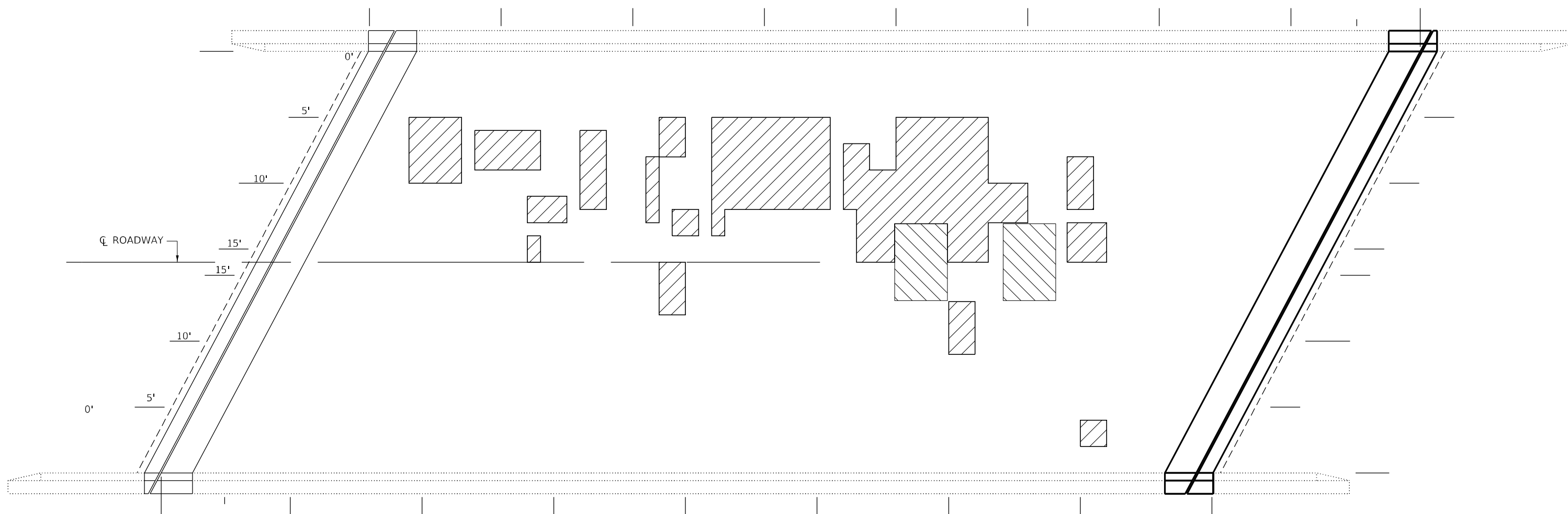
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

BAR SPLICER ASSEMBLY AND MECHANICAL SPLICER DETAILS  
FOR STRUCTURE NO. 006-0153

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
587	(140BR)BRR	BUREAU	25	21
			CONTRACT NO. 66M74	
ILLINOIS FED. AID PROJECT				

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**PLAN**  
**STRUCTURE NO. 006-0153**  
**DECK SLAB REPAIR**

THE DECK SLAB REPAIR AREAS SHOWN ARE ESTIMATED. THE ENGINEER SHALL SOUND THE ENTIRE DECK SURFACE TO DETERMINE ACTUAL LOCATIONS AND AREAS OF DECK SLAB REPAIRS INCLUDING PARTIAL AND FULL DEPTH REPAIRS.

-  DECK SLAB REPAIR (PARTIAL)
-  DECK SLAB REPAIR (FULL DEPTH, TYPE II)

**BILL OF MATERIAL**

ITEM	UNIT	TOTAL
DECK SLAB REPAIR (PARTIAL)	SQ YD	37
DECK SLAB REPAIR (FULL DEPTH, TYPE II)	SQ YD	5

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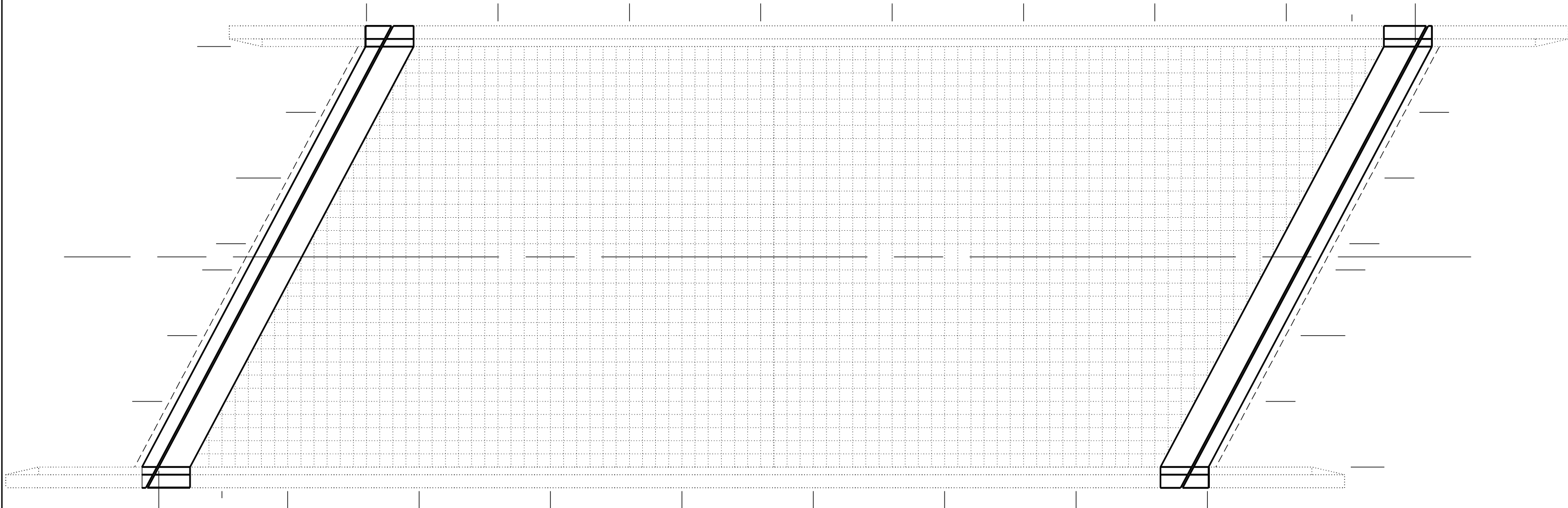
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**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

**DECK SLAB REPAIR DETAILS**  
**FOR STRUCTURE NO. 006-0153**

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
587	(140BR)BRR	BUREAU	25	22
			CONTRACT NO. 66M74	
ILLINOIS FED. AID PROJECT				



**PLAN**  
**STRUCTURE NO. 006-0153**  
**"AS-BUILT" DECK SLAB REPAIR**

**NOTE:**

WHEN ALL DECK SLAB REPAIRS HAVE BEEN COMPLETED, THE ENGINEER SHALL SHALL RECORD THE ACTUAL DECK SLAB REPAIR LOCATIONS AND REPAIR AREAS ON THIS "AS-BUILT" PLAN SHEET. WHEN ALL DECK SLAB REPAIR AREAS HAVE BEEN SHOWN ON THIS DETAIL, THE "AS-BUILT" DECK SLAB REPAIRS SHALL BE SUBMITTED TO THE BRIDGE OFFICE FOR THEIR RECORD. "SEE COMMITMENTS".

**"AS-BUILT"**  
**BILL OF MATERIAL**

ITEM	UNIT	TOTAL
DECK SLAB REPAIR (PARTIAL)	SQ YD	
DECK SLAB REPAIR (FULL DEPTH, TYPE I)	SQ YD	
DECK SLAB REPAIR (FULL DEPTH, TYPE II)	SQ YD	

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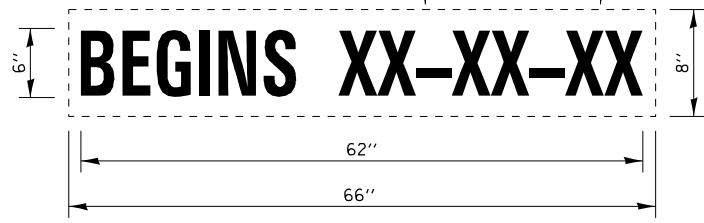
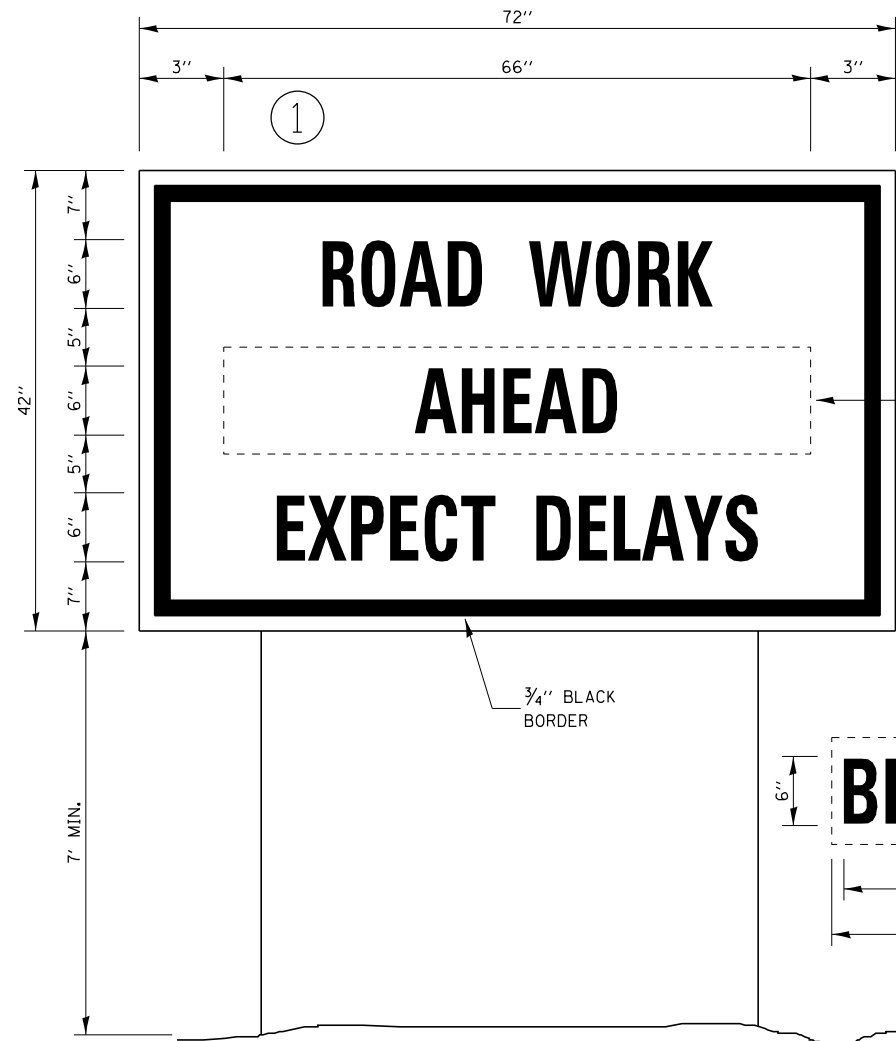
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**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

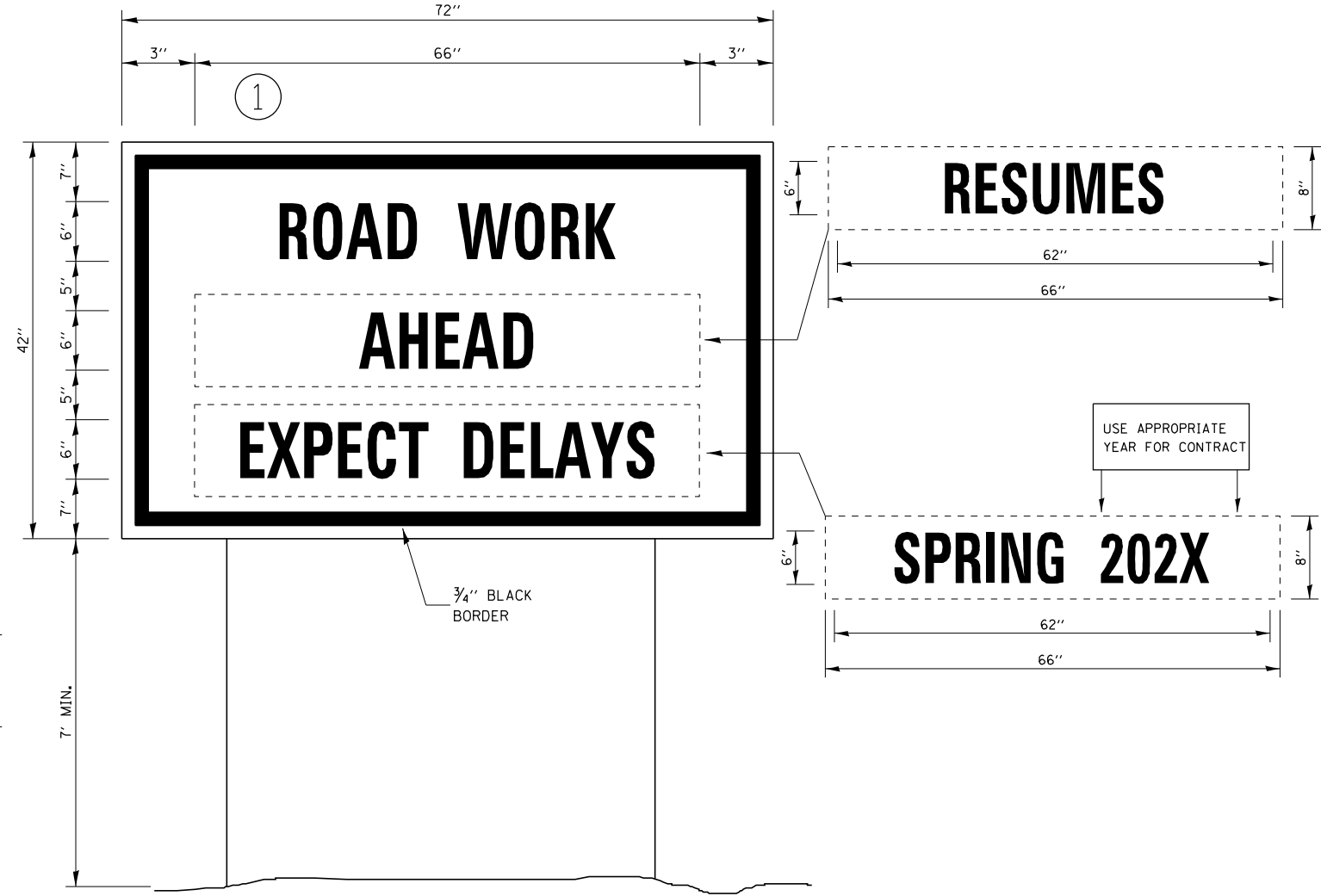
**"AS-BUILT" DECK SLAB REPAIR DETAILS**  
**FOR STRUCTURE NO. 006-0153**

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
587	(140BR)BRR	BUREAU	25	23
			CONTRACT NO. 66M74	
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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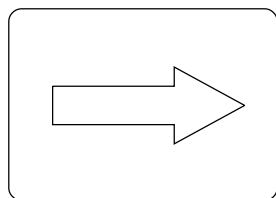
**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

**"AS-BUILT" DECK SLAB REPAIR DETAILS**  
**FOR STRUCTURE NO. 006-0153**

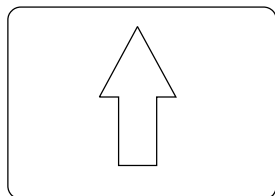
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F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
587	(140BR)BRR	BUREAU	25	24
			CONTRACT NO. 66M74	
ILLINOIS FED. AID PROJECT				

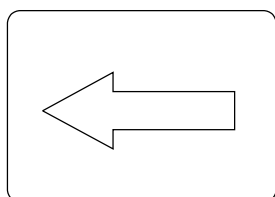




**M6-1 21"X15"**

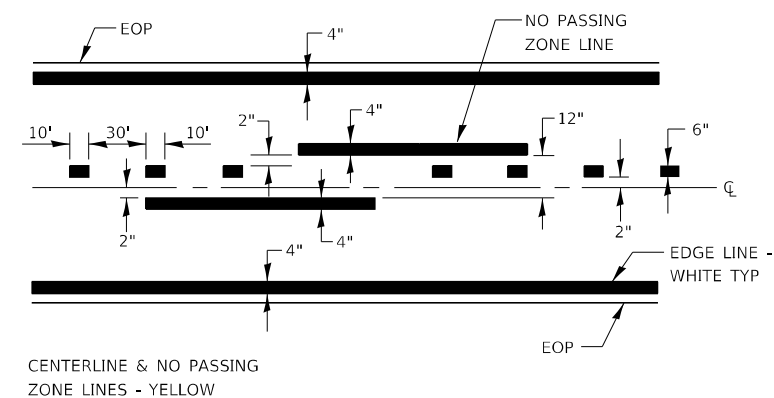


**M6-3 21"X15"**

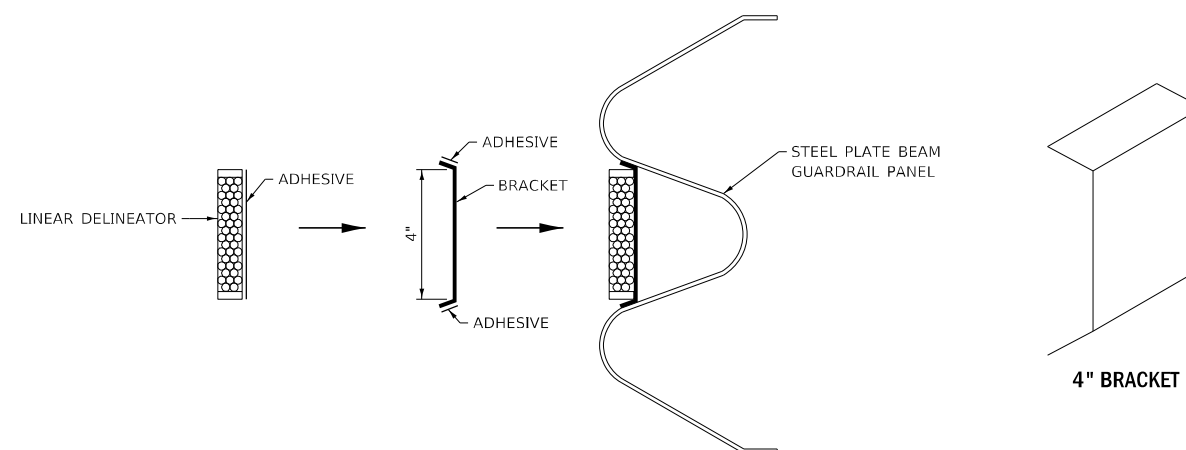


**M6-1 21"X15"**

**DIRECTIONAL ARROWS  
FOR WIDTH RESTRICTION SIGNING**



**PAVEMENT MARKING**



**LINEATOR DELINEATOR APPLICATION TO STANDARD GALVANIZED GUARDRAIL**  
LINEATOR DELINEATOR SHALL BE APPLIED ACCORDING TO THE MANUFACTURER'S RECOMMENDATIONS

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**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**MISCELLANEOUS DETAILS**

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

F.A.P. RTE. 587	SECTION (140BR)BRR	COUNTY BUREAU	TOTAL SHEETS 25	SHEET NO. 25
CONTRACT NO. 66M74			ILLINOIS FED. AID PROJECT	