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27. HMA RESURFACING DETAILS

**STANDARDS**

000001-06	STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS
001001-02	AREAS OF REINFORCEMENT BARS
001006	DECIMAL OF AN INCH AND OF A FOOT
631031-15	TRAFFIC BARRIER TERMINAL, TYPE 6
701101-05	OFF-ROAD OPERATIONS, MULTILANE, 15' (4.5 m) TO 24" (600 mm) FROM PAVEMENT EDGE
701106-02	OFF-ROAD OPERATIONS, MULTILANE, MORE THAN 15' (4.5 m) AWAY
701426-09	LANE CLOSURE, MULTILANE INTERMITTENT OR MOVING OPERATION, FOR SPEEDS ≥ 45 MPH
701428-01	TRAFFIC CONTROL, SETUP AND REMOVAL, FREEWAY/EXPRESSWAY
701901-07	TRAFFIC CONTROL DEVICES
704001-08	TEMPORARY CONCRETE BARRIER

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

**PROPOSED  
HIGHWAY PLANS**

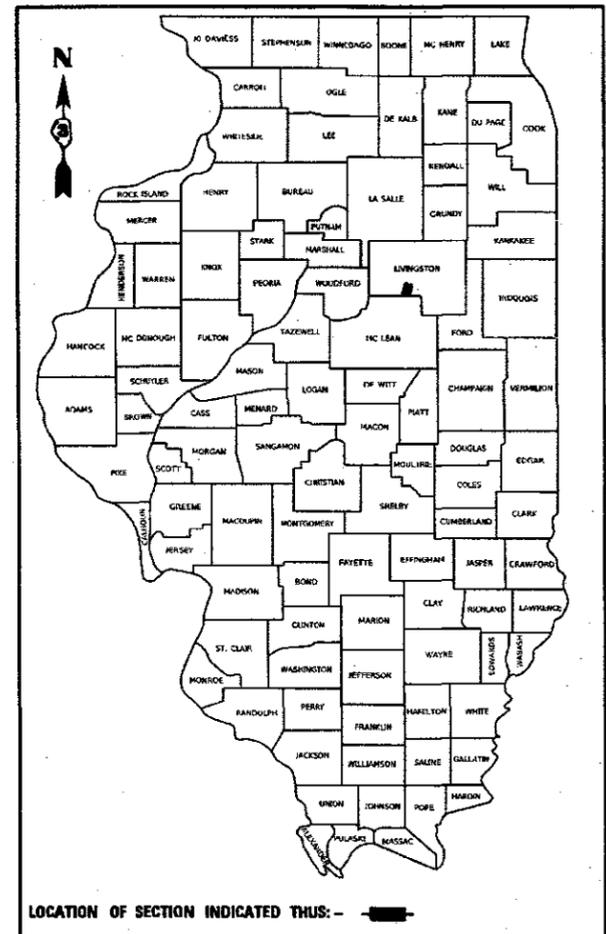
F.A.I. ROUTE 55 (I-55)  
SECTION (53-6B-1)BRR  
PROJECT

BRIDGE REPAIRS  
LIVINGSTON COUNTY

C-93-065-17

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	(53-6B-1)BRR	LIVINGSTON	27	1

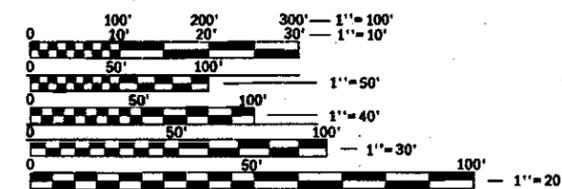
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FUNCTIONAL CLASSIFICATION  
RURAL INTERSTATE

F.A.I. ROUTE 55 (I-55)  
2015 ADT = 22500

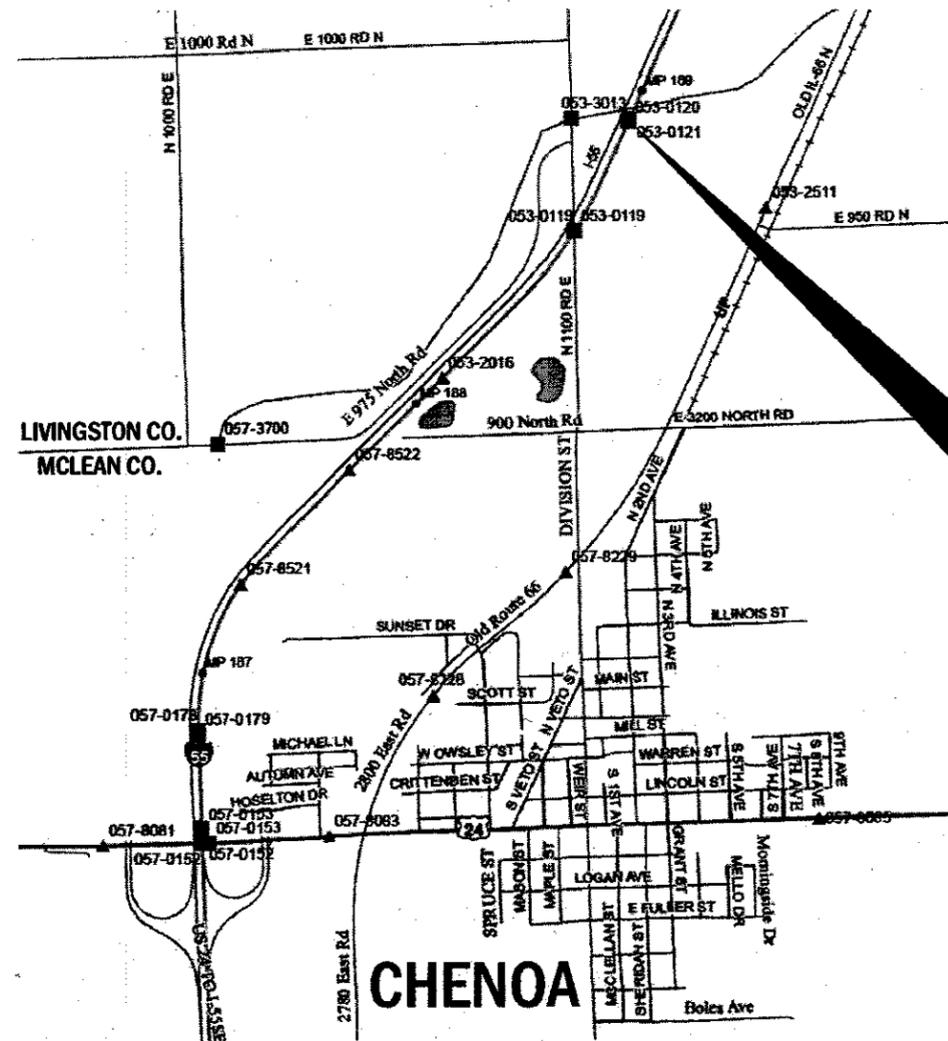
P.V. 70.0% S.U. 6.7% M.U. 23.3%



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: JOE KANNEL P.E.  
UNIT CHIEF: RON WOODSHANK  
DISTRICT NO. 3 (815) 434-6131  
CONTRACT NO. 66H28



**PROJECT LOCATION**  
S.N. 053-0120 (SB) & S.N. 053-0121 (NB)  
AT STA. 518+38.35  
CARRYING F.A.I. ROUTE 55 (I-55)  
OVER ROOKS CREEK  
1.1 MILES NORTH OF MCLEAN COUNTY LINE (CHENOA)

GROSS LENGTH = 97 FT. = 0.02 MILE  
NET LENGTH = 97 FT. = 0.02 MILE

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

SUBMITTED 04/02/2018  
*Ken [Signature]*  
REGIONAL ENGINEER

May 11 2018  
*[Signature]*  
ENGINEER OF DESIGN AND ENVIRONMENT

May 10 2018  
*[Signature]*  
DIRECTOR OF HIGHWAYS PROJECT IMPLEMENTATION

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OF THE STATE OF ILLINOIS

**GENERAL NOTES**

THE THICKNESS OF HMA SHOWN ON THE PLANS IS THE NOMINAL THICKNESS. DEVIATIONS FROM THE NOMINAL THICKNESS WILL BE PERMITTED WHEN SUCH DEVIATIONS OCCUR DUE TO IRREGULARITIES IN THE EXISTING SURFACE OR BASE ON WHICH THE HMA IS PLACED.

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

FOR STABILIZATION, ALL TYPE III BARRICADES WILL REQUIRE A MINIMUM OF FOUR SAND BAGS PER BARRICADE.

ON EXISTING PAVEMENT WHICH MAY BE SUPERELEVATED, THE NEW HMA PAVEMENT SHALL BE BUILT WITH THE SAME SUPERELEVATION UNLESS NEW SUPERELEVATION RATES ARE GIVEN ON THE PLANS.

ANY REFERENCE TO A STANDARD IN THESE PLANS SHALL BE INTERPRETED TO MEAN THE EDITION AS INDICATED BY THE SUBNUMBER SHOWN IN THE LIST OF STANDARDS OR THE COPY INCLUDED IN THESE PLANS.

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

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

THE CONTRACTOR SHALL CONTACT JULIE AT LEAST 48 HOURS PRIOR TO EXCAVATION TO DETERMINE WHICH UTILITIES ARE IN THE AREA.

**COMMITMENTS**

THE ENGINEER SHALL RECORD FINAL LOCATIONS AND QUANTITIES FOR DECK SLAB REPAIR (PARTIAL DEPTH), DECK SLAB REPAIR (FULL DEPTH), STRUCTURAL REPAIR OF CONCRETE (DEPTH EQUAL TO OR LESS THAN 5") AND STRUCTURAL REPAIR OF CONCRETE (DEPTH GREATER THAN 5") ON "AS-BUILT" DETAIL SHEETS AND SUBMIT THEM TO THE BRIDGE OFFICE IN SPRINGFIELD FOR THEIR RECORDS IN A TIMELY MANNER AFTER PROJECT COMPLETION. CONTACT PERSON IS VICTOR VELIZ, PHONE: (217)-782-2708.

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: David Bravish  
DISTRICT STUDIES & PLANS ENGINEER

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

DATE: 04/02/18

START & END DATES  
OF CONSTRUCTION:

EXAMINED BY:  Kyle Wiley  
DISTRICT CONSTRUCTION ENGINEER

INSPECTORS:

Michael Short  
DISTRICT MATERIALS ENGINEER

Tommy [Signature]  
DISTRICT OPERATIONS ENGINEER

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STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

**GENERAL NOTES**

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

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	(53-6B-1)BRR	LIVINGSTON	27	2
CONTRACT NO. 66H28			ILLINOIS   FED. AID PROJECT	

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE	
				CONTRACT MAINTENANCE	
				100% STATE	
				BRIDGE 0047	BRIDGE 0047
				S.N. 053-0120	S.N. 053-0121
40600290	BITUMINOUS MATERIALS (TACK COAT)	POUND	1202	600	602
40600400	MIXTURE FOR CRACKS, JOINTS, AND FLANGEWAYS	TON	1	0.5	0.5
40603545	POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N90	TON	222	111	111
44000155	HOT-MIX ASPHALT SURFACE REMOVAL, 1 1/2"	SQ YD	2668	1333	1335
50102400	CONCRETE REMOVAL	CU YD	62.8	31.4	31.4
50104000	BRIDGE RAIL REMOVAL	FOOT	56	28	28
50300225	CONCRETE STRUCTURES	CU YD	2.4	1.2	1.2
50300255	CONCRETE SUPERSTRUCTURE	CU YD	60	30	30
50300300	PROTECTIVE COAT	SQ YD	142	71	71
50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	12,500	6250	6250
50800515	BAR SPLICERS	EACH	48	24	24
50800530	MECHANICAL SPLICERS	EACH	472	236	236
52000110	PREFORMED JOINT STRIP SEAL	FOOT	200	100	100
67100100	MOBILIZATION	L SUM	1	0.5	0.5

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**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**SUMMARY OF QUANTITIES**

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

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	(53-6B-1)BRR	LIVINGSTON	27	3
			CONTRACT NO. 66H28	
ILLINOIS FED. AID PROJECT				

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE	
				CONTRACT MAINTENANCE	
				100% STATE	
				BRIDGE 0047	BRIDGE 0047
				S.N. 053-0120	S.N. 053-0121
70300100	SHORT TERM PAVEMENT MARKING	FOOT	384	192	192
70300150	SHORT TERM PAVEMENT MARKING REMOVAL	SQ FT	126	63	63
70400100	TEMPORARY CONCRETE BARRIER	FOOT	1250	625	625
70400200	RELOCATE TEMPORARY CONCRETE BARRIER	FOOT	1150	575	575
* 78009004	MODIFIED URETHANE PAVEMENT MARKING - LINE 4"	FOOT	1582	792	790
* 78009006	MODIFIED URETHANE PAVEMENT MARKING - LINE 6"	FOOT	960	480	480
78300200	RAISED REFLECTIVE PAVEMENT MARKER REMOVAL	EACH	16	8	8
X0325748	ACRYLIC COATING	SQ YD	631	342	289
X0325749	FIBER WRAP	SQ FT	1278	750	528
X0326649	LINEAR DELINEATOR PANELS, 6 INCH	EACH	8	4	4
X0326880	MESSAGE BOARD VEHICLE DRIVER	HOOR	440	220	220
X0326907	PORTABLE, VEHICLE MOUNTED, CHANGEABLE MESSAGE SIGN	CAL MO	3	1.5	1.5
X0327980	PAVEMENT MARKING REMOVAL - WATER BLASTING	SQ FT	1200	600	600
X5080525	BAR SPLICERS, SPECIAL	EACH	20	10	10

\*SPECIALITY ITEMS

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**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**SUMMARY OF QUANTITIES**

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

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	(53-69-1)BRR	LIVINGSTON	27	4
CONTRACT NO. 66H28			ILLINOIS FED. AID PROJECT	

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE	
				CONTRACT MAINTENANCE 100% STATE	
				BRIDGE 0047	BRIDGE 0047
				S.N. 053-0120	S.N. 053-0121
X7010208	TRAFFIC CONTROL AND PROTECTION, STANDARD 701402 (SPECIAL)	EACH	2	1	1
X7015005	CHANGEABLE MESSAGE SIGN	CAL DAY	80	40	40
Z0012754	STRUCTURAL REPAIR OF CONCRETE (DEPTH EQUAL TO OR LESS THAN 5 INCHES)	SQ FT	21.9	12.1	9.8
Z0012755	STRUCTURAL REPAIR OF CONCRETE (DEPTH GREATER THAN 5 INCHES)	SQ FT	10	10	
Z0016001	DECK SLAB REPAIR (FULL DEPTH, TYPE I)	SQ YD	1	0.4	0.6
Z0021700	EXPANSION JOINT REHABILITATION	FOOT	96	48	48
Z0043800	PRECAST PRESTRESSED CONCRETE I-BEAM REPAIR	SQ FT	121.2	78.5	42.7

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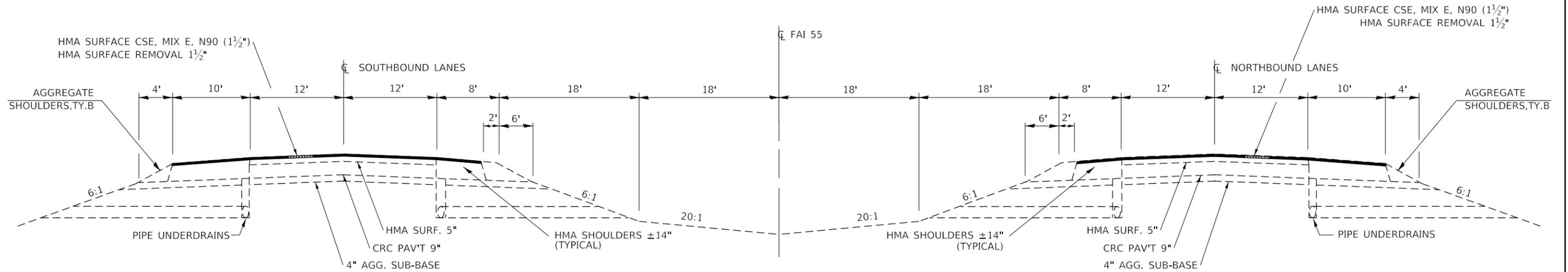
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**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**SUMMARY OF QUANTITIES**

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

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	(53-68-1)BRR	LIVINGSTON	27	5
CONTRACT NO. 66H28				
ILLINOIS FED. AID PROJECT				



**SOUTHBOUND ROADWAY**  
 STA. 516+00 TO STA. 517+50  
 STA. 518+47 TO STA. 519+97

**PROPOSED TYPICAL SECTION (F.A.I.55)**

**NORTHBOUND ROADWAY**  
 STA. 516+80 TO STA. 518+30  
 STA. 519+25 TO STA. 520+75

HMA MIXTURE REQUIREMENT TABLE	
LOCATION(S):	ENTIRE PROJECT
MIXTURE USE(S):	HMA SURFACE
BINDER GRADE (PG):	SBS PG70-28
DESIGN AIR VOIDS:	4.0% @ N90
MIXTURE COMPOSITION: (MIXTURE GRADATION)	IL 9.5
FRICITION AGGREGATE:	MIXTURE D
MIXTURE WEIGHT:	112.0 LB/SY/IN
QUALITY MANAGEMENT PROGRAM:	QCQA
SUBLOT SIZE:	NA
DENSITY TEST METHOD:	NUCLEAR/CORES

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**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**TYPICAL SECTION**

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

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	(53-68-1)BRR	LIVINGSTON	27	6
CONTRACT NO. 66H28				
ILLINOIS FED. AID PROJECT				

**SCHEDULE - RESURFACING  
STRUCTURE NO. 053-0121 (NB)**

LOCATION				HOT-MIX ASPHALT SURFACE REMOVAL 1 1/2"	MIX FOR CRACKS JOINTS AND FLANGWAYS	BITUMINOUS MATERIALS TACK COAT	POLYMER HOT-MIX ASPHALT SURFACE CSE. MIX D, N90	EXPANSION JOINT REHABILITATION
STAGE	STA.	TO	STA.	SQ YD	TON	POUND	TON	FOOT
STAGE I	516+80	TO	518+30	386	0.2	174	32	12
	519+25	TO	520+75	348	0.1	157	29	12
STAGE II	516+80	TO	518+30	288	0.1	130	24	12
	519+25	TO	520+75	313	0.1	141	26	12
TOTAL				1335	0.5	602	111	48

**SCHEDULE - PAVEMENT MARKING  
STRUCTURE NO. 053-0121 (NB)**

LOCATION			MODIFIED URETHANE PAVEMENT MARKING LINE 4"	MODIFIED URETHANE PAVEMENT MARKING LINE 6"	LINEAR DELINEAR PANELS 6"
STA.	TO	STA.	FOOT		EACH
			YELLOW	WHITE	
501+57	TO	516+80			380
516+80	TO	520+75	395	395	100
TOTAL			790		480

**SCHEDULE  
PAVEMENT MARKING FOR TRAFFIC CONTROL  
STRUCTURE NO. 053-0121 (NB)**

LOCATION	PAVEMENT MARKING REMOVAL WATER BLASTING	RAISED REFLECTIVE PAVEMENT MARKER REMOVAL	SHORT-TERM PAVEMENT MARKING	SHORT-TERM PAVEMENT MARKING REMOVAL
STA.	SQ FT	EACH	FOOT	SQ FT
STAGE I	420			
STAGE II	180	8	192	63
TOTAL	600	8	192	63

**SCHEDULE  
TEMPORARY CONCRETE BARRIER  
STRUCTURE NO. 053-0121 (NB)**

LOCATION	TRAFFIC CONTROL & PROTECTION, STANDARD 701402 (SPECIAL)	TEMPORARY CONCRETE BARRIER	RELOCATE TEMPORARY CONCRETE BARRIER
	EACH	FOOT	FOOT
STAGE I	1	625	
STAGE II			575
TOTAL	1	625	575

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**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**SCHEDULES  
STRUCTURE NO. 053-0121 (NB)**

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	(53-6B-1)BRR	LIVINGSTON	27	7
CONTRACT NO. 66H28				
SCALE:		SHEET 1 OF 2 SHEETS	STA.	TO STA.
			ILLINOIS	FED. AID PROJECT

**SCHEDULE - RESURFACING  
STRUCTURE NO. 053-0120 (SB)**

LOCATION				HOT-MIX ASPHALT SURFACE REMOVAL 1 1/2"	MIX FOR CRACKS JOINTS AND FLANGEWAYS	BITUMINOUS MATERIALS TACK COAT	POLYMER HOT-MIX ASPHALT SURFACE CSE. MIX D, N90	EXPANSION JOINT REHABILITATION
STAGE	STA.	TO	STA.	SQ YD	TON	POUND	TON	FOOT
STAGE I	516+01	TO	517+51	348	0.1	157	29	12
	518+47	TO	519+97	385	0.2	173	32	12
STAGE II	516+01	TO	517+51	312	0.1	140	26	12
	518+47	TO	519+97	288	0.1	130	24	12
TOTAL				1333	0.5	600	111	48

**SCHEDULE - PAVEMENT MARKING  
STRUCTURE NO. 050-0120 (SB)**

LOCATION			MODIFIED URETHANE PAVEMENT MARKING LINE 4"	MODIFIED URETHANE PAVEMENT MARKING LINE 6"	LINEAR DELINEAR PANELS 6"
STA.	TO	STA.	FOOT		EACH
			YELLOW	WHITE	
516+01	TO	519+97	396	396	100
519+97	TO	535+19			380
TOTAL			792		480

**SCHEDULE  
PAVEMENT MARKING FOR TRAFFIC CONTROL  
STRUCTURE NO. 050-0120 (SB)**

LOCATION	PAVEMENT MARKING REMOVAL WATER BLASTING	RAISED REFLECTIVE PAVEMENT MARKER REMOVAL	SHORT-TERM PAVEMENT MARKING	SHORT-TERM PAVEMENT MARKING REMOVAL
	SQ FT	EACH	FOOT	SQ FT
STAGE I	420			
STAGE II	180	8	192	63
TOTAL	600	8	192	63

**SCHEDULE  
TEMPORARY CONCRETE BARRIER  
STRUCTURE NO. 050-0120 (SB)**

LOCATION	TRAFFIC CONTROL & PROTECTION, STANDARD 701402 (SPECIAL)	TEMPORARY CONCRETE BARRIER	RELOCATE TEMPORARY CONCRETE BARRIER
	EACH	FOOT	FOOT
STAGE I	1	625	
STAGE II			575
TOTAL	1	625	575

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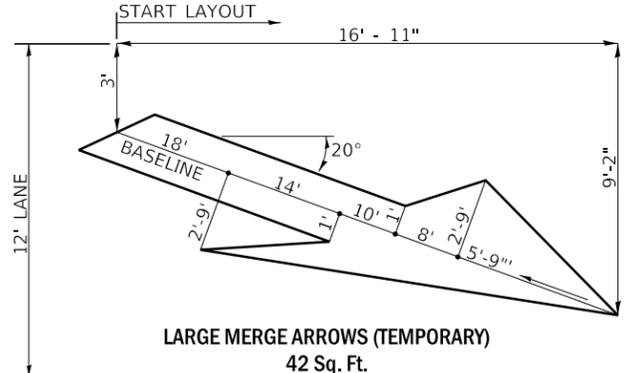
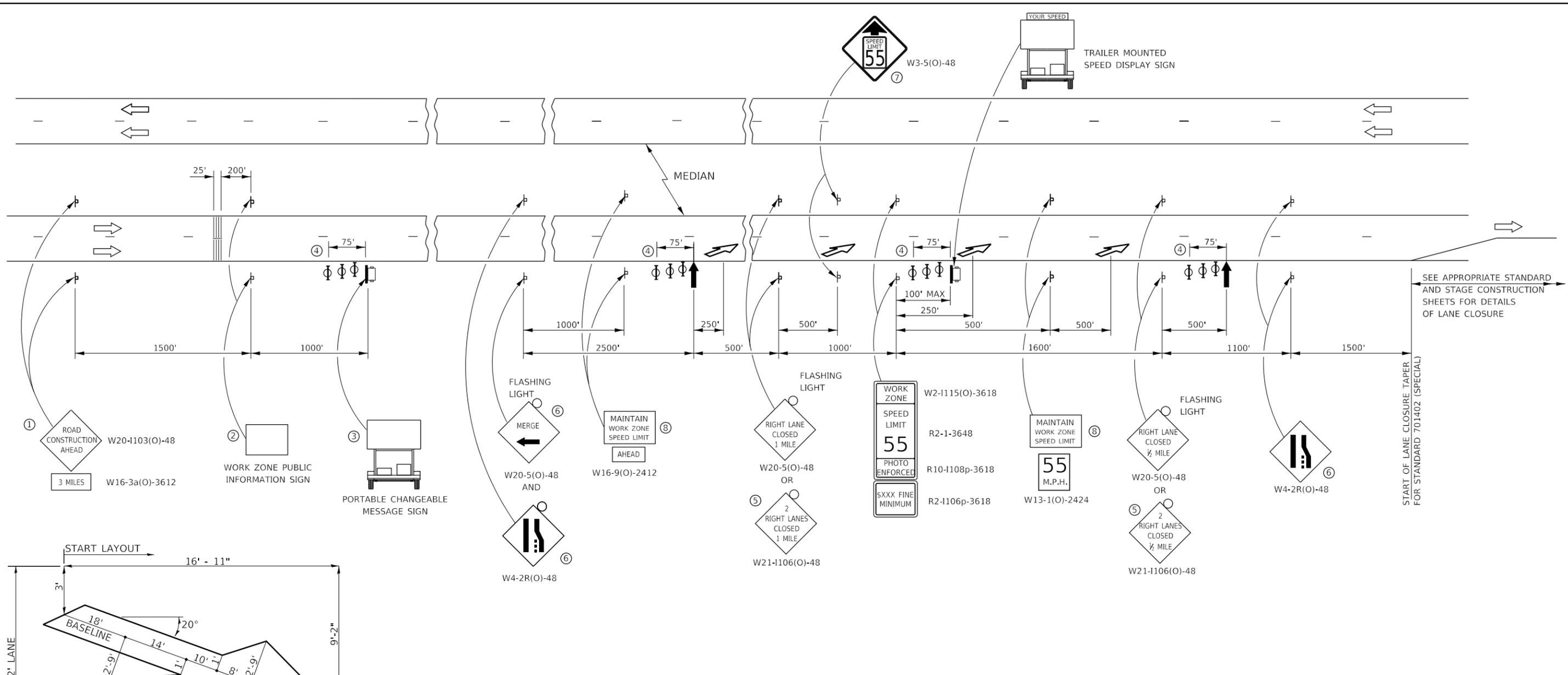
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**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**SCHEDULES  
STRUCTURE NO. 053-0120 (SB)**

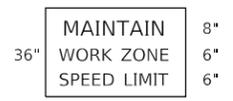
SCALE: SHEET 2 OF 2 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	(53-6B-1)BRR	LIVINGSTON	27	8
CONTRACT NO. 66H28			ILLINOIS FED. AID PROJECT	



- ① THE ROAD CONSTRUCTION AHEAD SIGN SHALL BE LOCATED 3 MILES IN ADVANCE OF THE PROJECT LIMITS.
- ② THE MESSAGE AND SIZE OF THE WORK ZONE PUBLIC INFORMATION SIGN SHALL BE AS SPECIFIED BY THE DEPARTMENT.
- ③ TO BE PLACED IN THE MEDIAN WHEN FEASIBLE. THE MESSAGE BOARD SHALL BE USED TO DISPLAY STATUS OF LANES WITHIN THE PROJECT. THE PRIMARY MESSAGES SHALL BE:  
"RIGHT LANE CLOSED" / " x MILES AHEAD"  
"LEFT LANE CLOSED" / " x MILES AHEAD"  
"ALL LANES OPEN"
- ④ THREE, TYPE II BARRICADES, DRUMS, OR VERTICAL BARRICADES AT 25' CENTERS.
- ⑤ THIS SIGN SHALL BE USED WHEN 2 LANES ARE CLOSED.
- ⑥ WHEN THE LEFT LANE IS CLOSED, SWITCH THESE TWO SIGNS AND THE DIRECTION OF THE MERGE ARROW.
- ⑦ THIS SIGN SHALL ONLY BE USED IF THE EXISTING SPEED LIMIT IS GREATER THAN 65 MPH.

⑧ 48"x36" FLUORESCENT ORANGE SIGN WITH BLACK LETTERS.



- ↑ ARROW BOARD
- ☐ PORTABLE CHANGEABLE MESSAGE SIGN
- ⊥ SIGN
- ⊕ TYPE II BARRICADE, DRUM, OR VERTICAL BARRICADE WITH MONODIRECTIONAL FLASHING LIGHT
- ↘ LANE DROP ARROW - SEE STANDARD 780001
- ▨ TEMPORARY THERMOPLASTIC RUMBLE STRIPS

**GENERAL NOTE:**

THIS STANDARD IS USED WHERE AT ANY TIME A LANE IS CLOSED ON A FREEWAY/EXPRESSWAY.

WHEN THE LEFT LANE IS CLOSED, LEFT LANE CLOSED SIGNS SHALL BE SUBSTITUTED FOR THE RIGHT LANE CLOSED SIGNS.

THE FIRST TWO SIGNS AND THE MESSAGE BOARD ARE STATIONARY. THE OTHER SIGNS AND ARROW BOARDS SHALL BE MOVED AS NECESSARY TO MAINTAIN THE REQUIRED DISTANCE FROM THE START OF THE LANE CLOSURE TAPER(S).

COST OF LANE DROP ARROWS AND TEMPORARY RUMBLE STRIPS SHALL BE INCLUDED IN THIS STANDARD.

SEE SPECIAL PROVISIONS.

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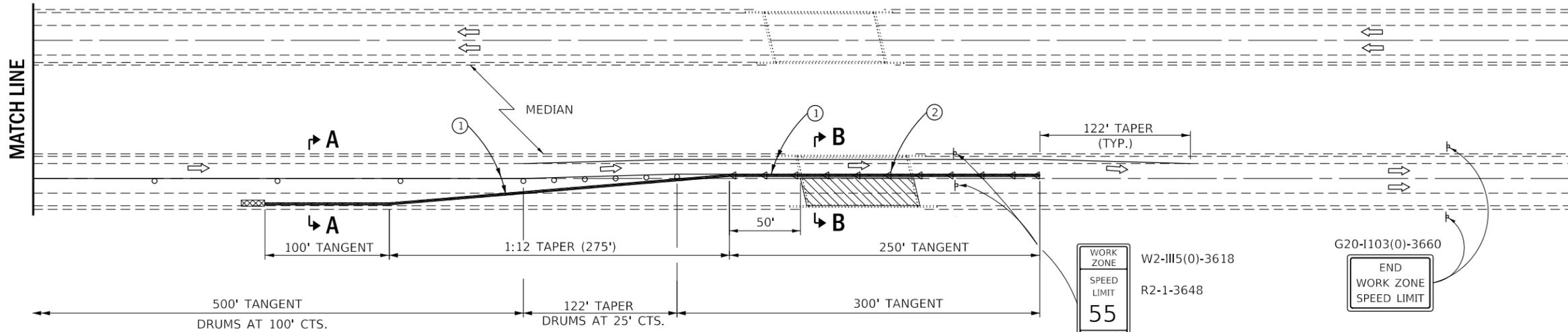
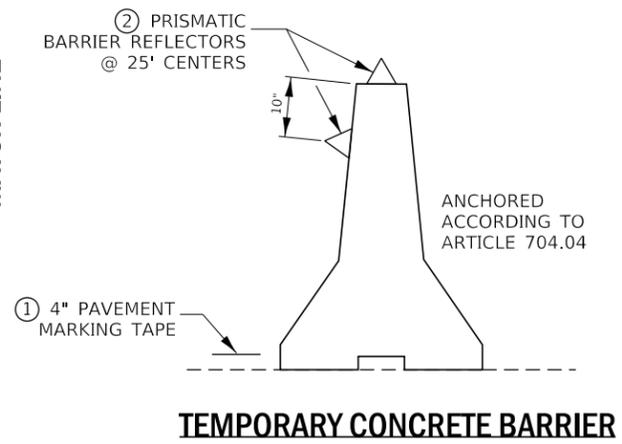
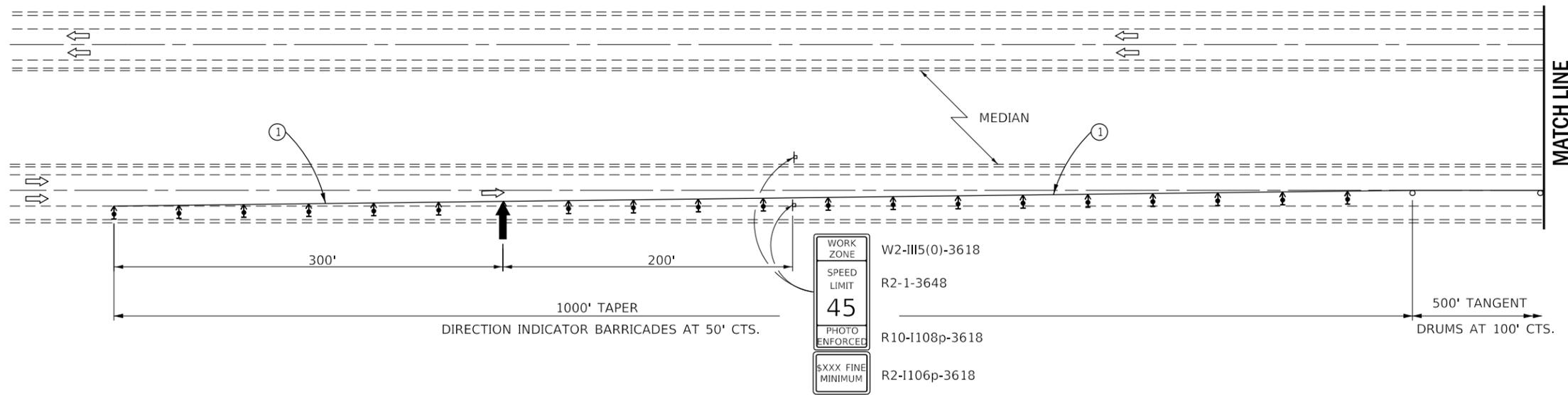
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**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**TRAFFIC CONTROL AND PROTECTION, STANDARD 701400 (SPECIAL)**

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

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	(53-6B-1)BRR	LIVINGSTON	27	9
ILLINOIS FED. AID PROJECT			CONTRACT NO. 66H28	



**PLAN  
STAGE I**

WHEN WORK IS BEING PERFORMED IN THE OPPOSITE DIRECTION OF TRAVEL, TRAFFIC CONTROL AND PROTECTION SHALL BE THE SAME AS TO WHAT IS SHOWN THROUGH 180° DEGREE ROTATION

**SYMBOLS**

- ↑ Arrow board
- ▨ Work area
- ♣ SIGN
- ⬆ DIRECTION INDICATOR BARRICADE WITH STEADY BURN MONODIRECTIONAL LIGHT
- TYPE II BARRICADE, DRUM, OR VERTICAL BARRICADE
- ▬ TEMPORARY CONCRETE BARRIER
- ◁ MONODIRECTIONAL GUARDRAIL/BARRIER WALL REFLECTOR
- ▩ IMPACT ATTENUATOR

- ① 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 LINE SHALL BE YELLOW.
- ② BARRIER WALL/GUARDRAIL MARKERS AT 25' (7.6 M). MARKERS ON RIGHT SHALL BE CRYSTAL AND MARKERS ON LEFT SHALL BE AMBER.
- ③ TEMPORARY CONCRETE BARRIER.
- ④ TRAFFIC CONTROL DRUM

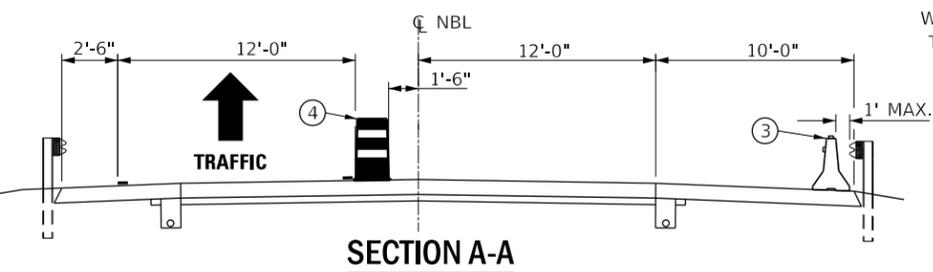
**GENERAL NOTES**

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.

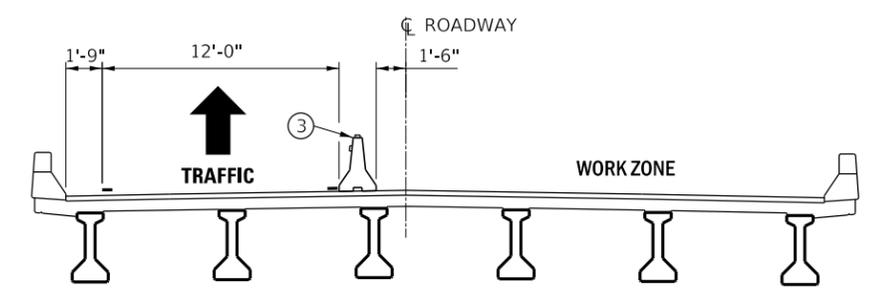
THIS STANDARD MUST ALWAYS BE USED IN COMBINATION WITH STANDARD 701400 (SPECIAL).

WHEN WORK IS BEING PERFORMED IN THE LEFT LANE, FOR STAGE II, THE SET UP WOULD BE A MIRROR IMAGE TO WHAT IS SHOWN FOR STAGE I.

TEMPORARY CONCRETE BARRIER SHALL BE ACCORDING TO STANDARD 704001.



**SECTION A-A**



**SECTION B-B**

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	DRAWN - RW	REVISED -
PLOT SCALE = 100.0000' / in.	CHECKED - EP	REVISED -
PLOT DATE = 4/2/2018	DATE - 11/15/2017	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

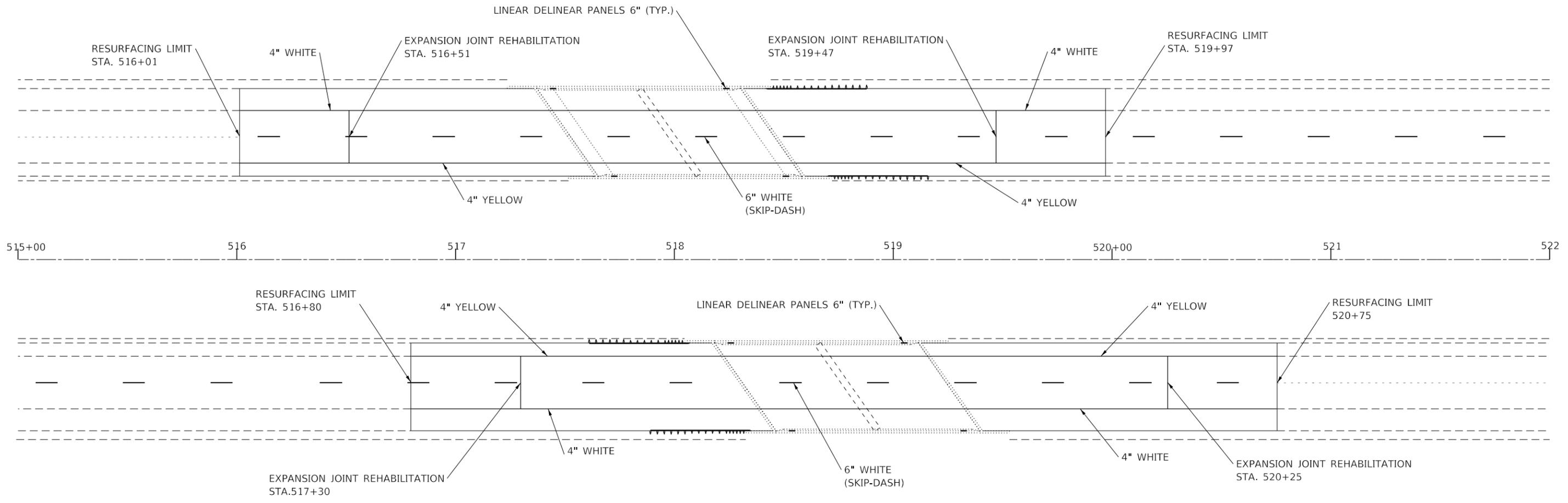
**TRAFFIC CONTROL AND PROTECTION, STANDARD 701402 (SPECIAL)  
STAGE I**

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	(53-6B-1)BRR	LIVINGSTON	27	10
CONTRACT NO. 66H28				
ILLINOIS FED. AID PROJECT				

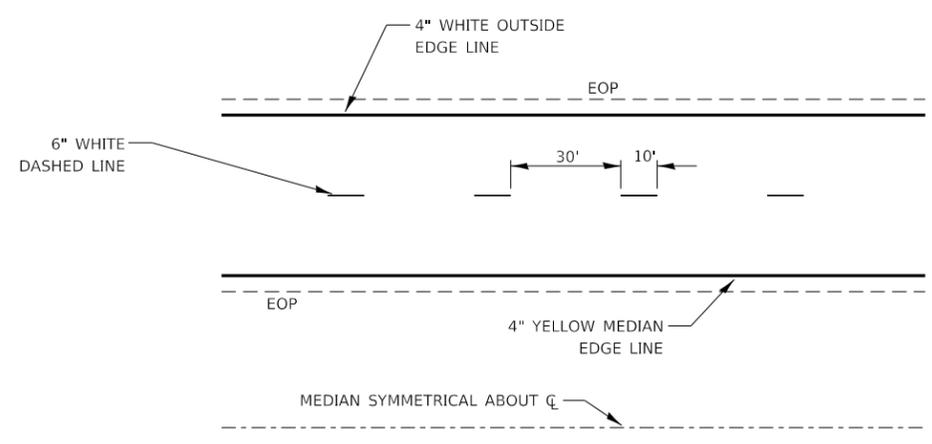
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**PLAN**



**TYPICAL PAVEMENT MARKINGS**

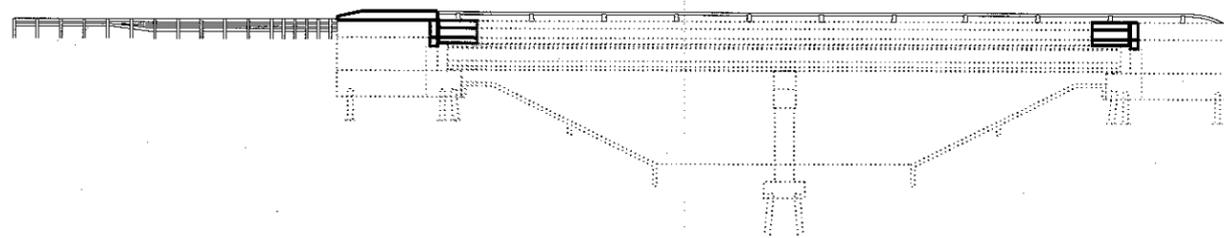
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	DRAWN - RW	REVISED -
PLOT SCALE = 100.0000' / in.	CHECKED - EP	REVISED -
PLOT DATE = 4/2/2018	DATE - 11/15/2017	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

<b>PAVEMENT MARKING DETAILS</b>			
SCALE:	SHEET 1	OF 1	SHEETS
STA.	TO STA.		

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	(53-6B-1)BRR	LIVINGSTON	27	12
CONTRACT NO. 66H28				
ILLINOIS FED. AID PROJECT				



**ELEVATION**



*David Carl Pusey S/N 18  
Expires 11/30/18*

**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 SHALL CONFORM TO AASHTO CLASSIFICATION M-270 GR 36, UNLESS OTHERWISE NOTED.

REINFORCEMENT BARS DESIGNATED (E) SHALL BE EPOXY COATED.

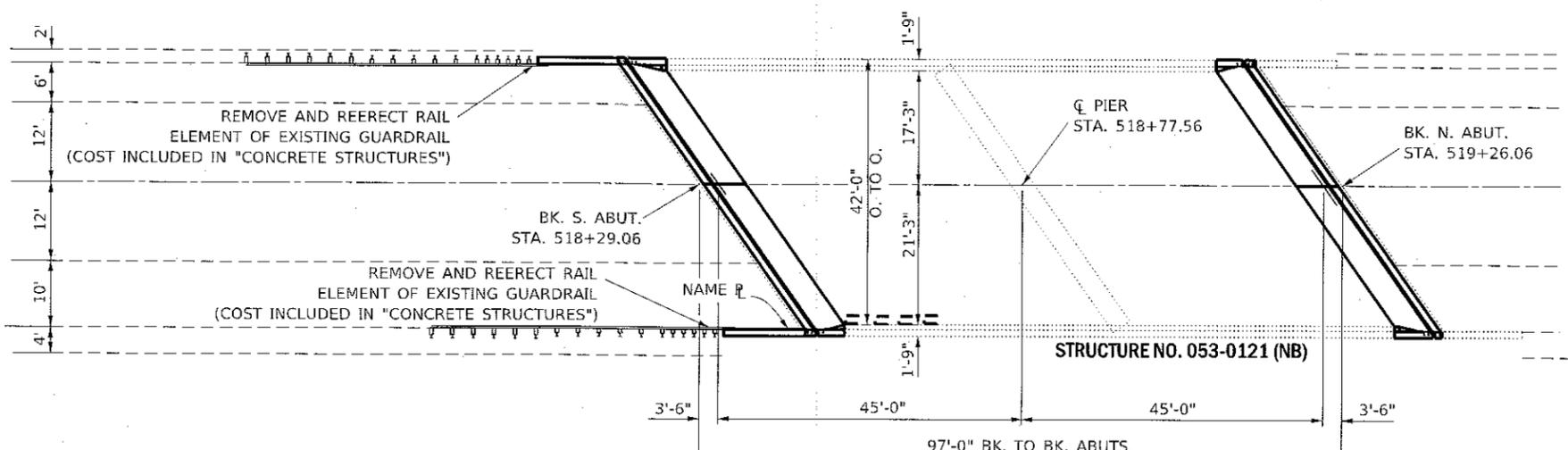
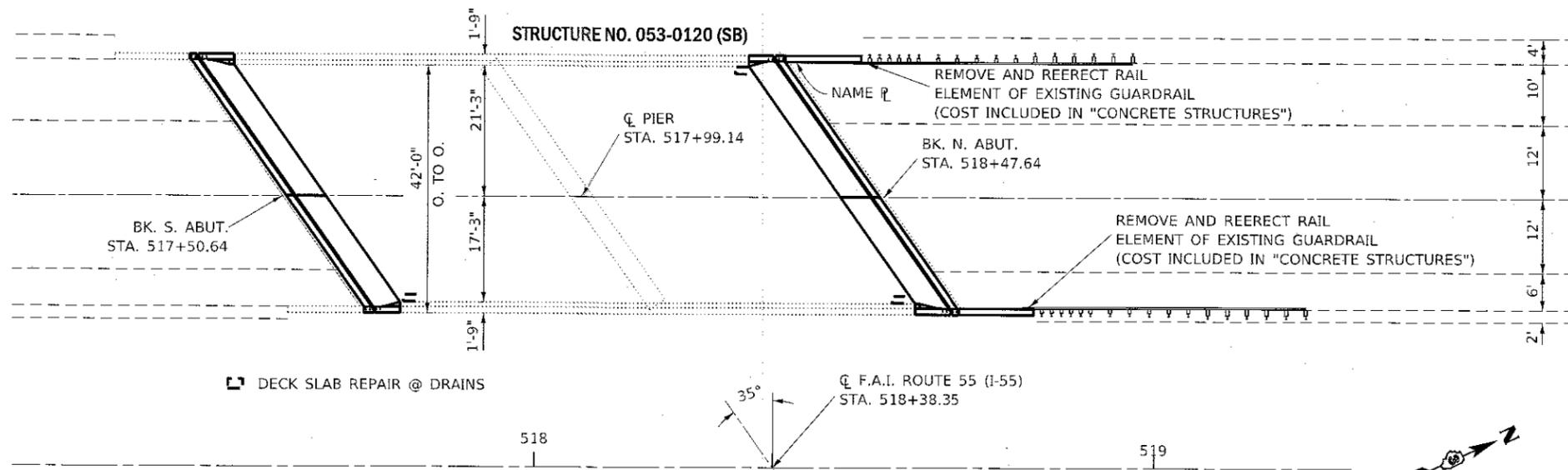
IF THE CONTRACTOR ELECTS TO USE CANTILEVER FORMING BRACKETS ON THE EXTERIOR BEAMS OR GIRDERS, THE BRACKETS SHALL BE PLACED AT THE SAME LOCATIONS AS REQUIRED FOR THE HARDWOOD BLOCKS IN ARTICLE 503.06(B) OF THE STANDARD SPECIFICATIONS. IF ADDITIONAL CANTILEVER FORMING BRACKETS ARE REQUIRED, HARDWOOD BLOCKING SHALL BE WEDGED BETWEEN THE EXTERIOR AND FIRST INTERIOR BEAM AT EACH OF THESE ADDITIONAL BRACKET LOCATIONS.

EXISTING REINFORCEMENT BARS EXTENDING INTO THE REMOVAL AREA SHALL BE CLEANED, STRAIGHTENED AND INCORPORATED INTO THE NEW CONSTRUCTION, UNLESS NOTED OTHERWISE. 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.

THE CONTRACTOR SHALL USE EXTREME CARE DURING CONCRETE REMOVAL SO AS NOT TO DAMAGE THE PPC I-BEAM OR THREADED RODS.

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.

AREAS OF DECK REPAIRS SHOWN ARE ESTIMATED. THE ENGINEER SHALL SHOW ACTUAL LOCATIONS OF DECK REPAIRS ON AS-BUILT PLANS.



**PLAN**

**BILL OF MATERIAL  
2 STRUCTURES**

ITEM	UNIT	SUPER	SUB	TOTAL
CONCRETE REMOVAL	CU YD	62.8		62.8
CONCRETE - STRUCTURES	CU YD	2.4		2.4
CONCRETE SUPERSTRUCTURE	CU YD	60		60
REINFORCEMENT BARS, EPOXY COATED	POUND	12500		12500
DECK SLAB REPAIR (FULL DEPTH, TYPE 1)	SQ YD	1		1
BRIDGE RAIL REMOVAL	FOOT	56		56
PROTECTIVE COAT	SQ YD	142		142
PREFORMED JOINT STRIP SEAL	FOOT	200		200
BAR SPLICER	EACH	48		48
MECHANICAL SPLICER	EACH	472		472
BAR SPLICER, SPECIAL	EACH	20		20
PRECAST PRESTRESSED CONCRETE I-BEAM REPAIR	SQ FT	121.2		121.2
STRUCTURAL REPAIR OF CONCRETE (DEPTH EQUAL TO OR LESS THAN 5")	SQ FT	21.9		21.9
STRUCTURAL REPAIR OF CONCRETE (DEPTH GREATER THAN 5")	SQ FT	10		10
FIBER WRAP	SQ FT	1278		1278
ACRYLIC COATING	SQ YD	631		631

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 USER: woodshankri  
 DATE: 5/9/2018  
 PLOT DATE: 5/9/2018

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PLOT SCALE = 100.0000' / 1"	DRAWN - RW	REVISED -
PLOT DATE = 5/9/2018	CHECKED - EP	REVISED -
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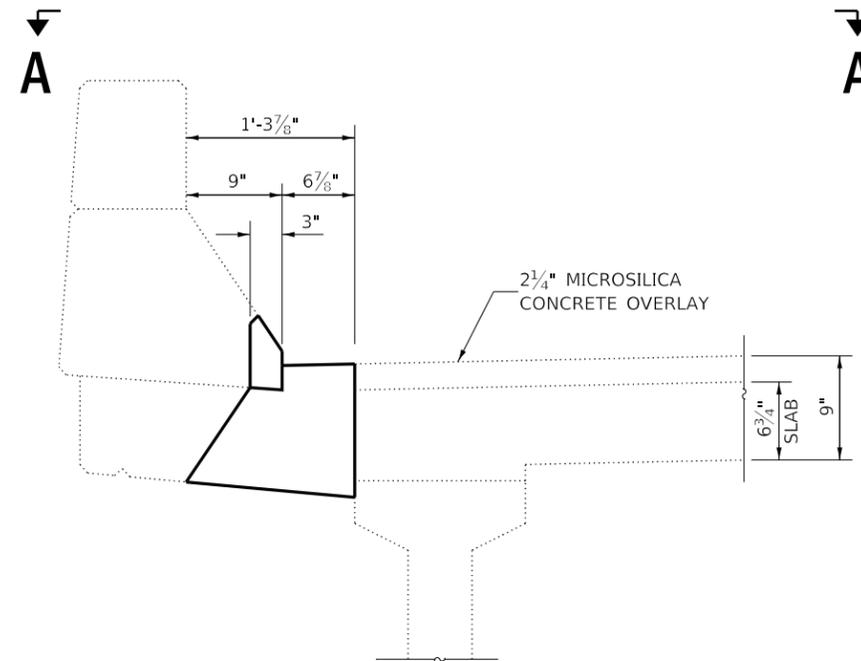
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**GENERAL PLAN AND ELEVATION  
S.N. 053-0120 (SB) AND S.N. 053-0121 (NB)**

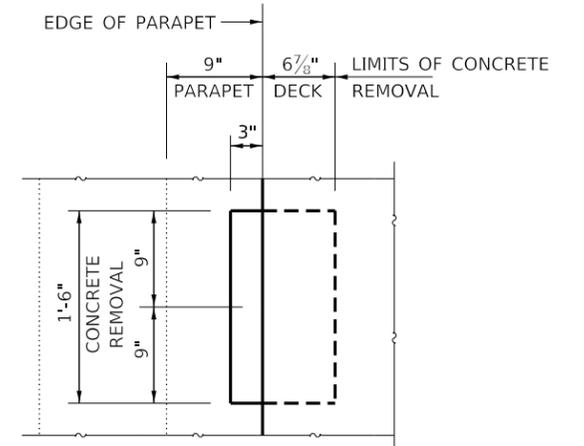
SCALE:	SHEET 1 OF 15 SHEETS	STA. TO STA.	F.A.I. RTE. 55	SECTION (53-GB-1)BRR	COUNTY LIVINGSTON	TOTAL SHEETS 27	SHEET NO. 13
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ILLINOIS FED. AID PROJECT  
CONTRACT NO. 66H28





**SECTION THRU CURB**



**SECTION A-A**

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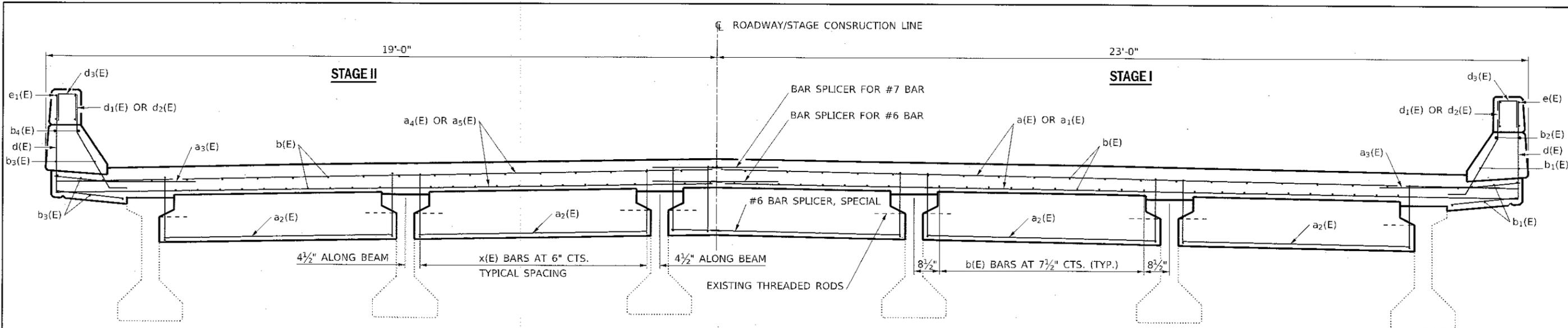
**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

**DECK SLAB REPAIR DETAIL AT PARAPETS**

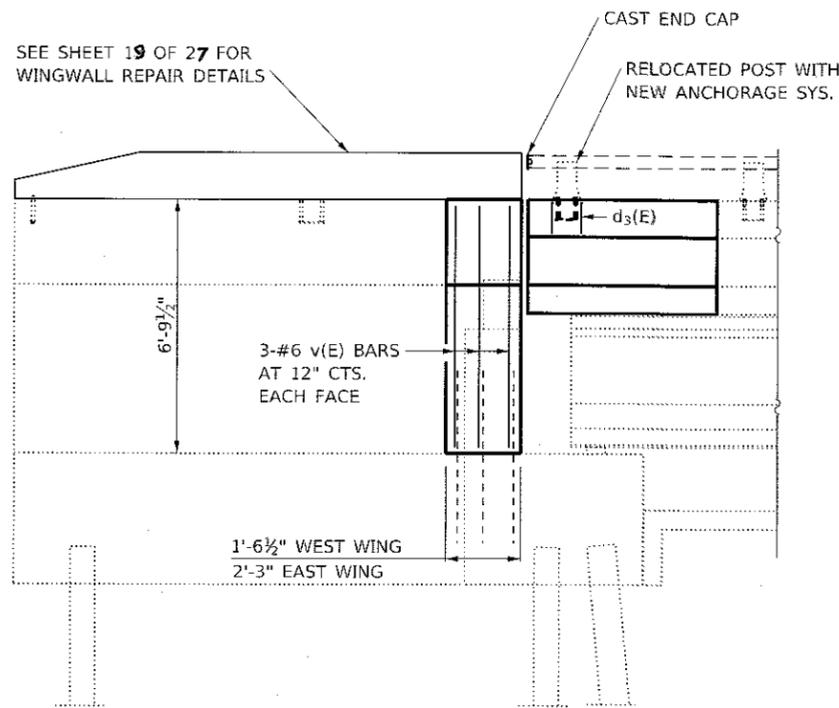
SCALE: SHEET 3 OF 15 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	(53-6B-1)BRR	LIVINGSTON	27	15
ILLINOIS FED. AID PROJECT			CONTRACT NO. 66H28	

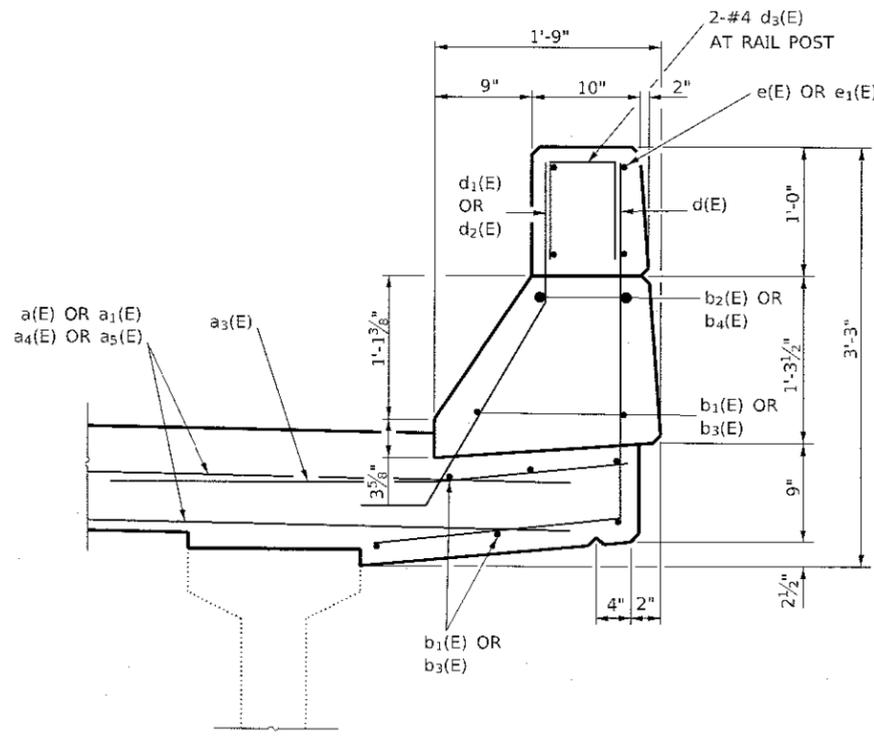




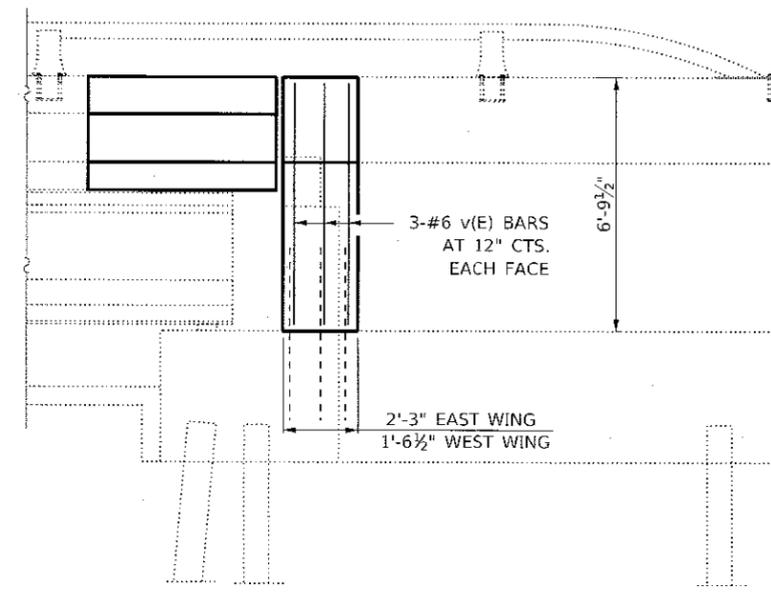
**CROSS SECTION**  
LOOKING NORTH



**WINGWALL ELEVATION**  
SOUTH ABUTMENT



**SECTION THRU PARAPET AT EXPANSION JT.**



**WINGWALL ELEVATION**  
NORTH ABUTMENT

NOTE: DETAILS SHOWN ARE FOR THE NORTHBOUND STRUCTURE, THE SOUTHBOUND STRUCTURE SHALL BE SIMILAR THROUGH 180° ROTATION

USER NAME = woodshankof	DESIGNED - RW	REVISED - 5/5/2018
PLOT SCALE = 100.0000' / in.	DRAWN - RW	REVISED -
PLOT DATE = 5/9/2018	CHECKED - EP	REVISED -
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STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

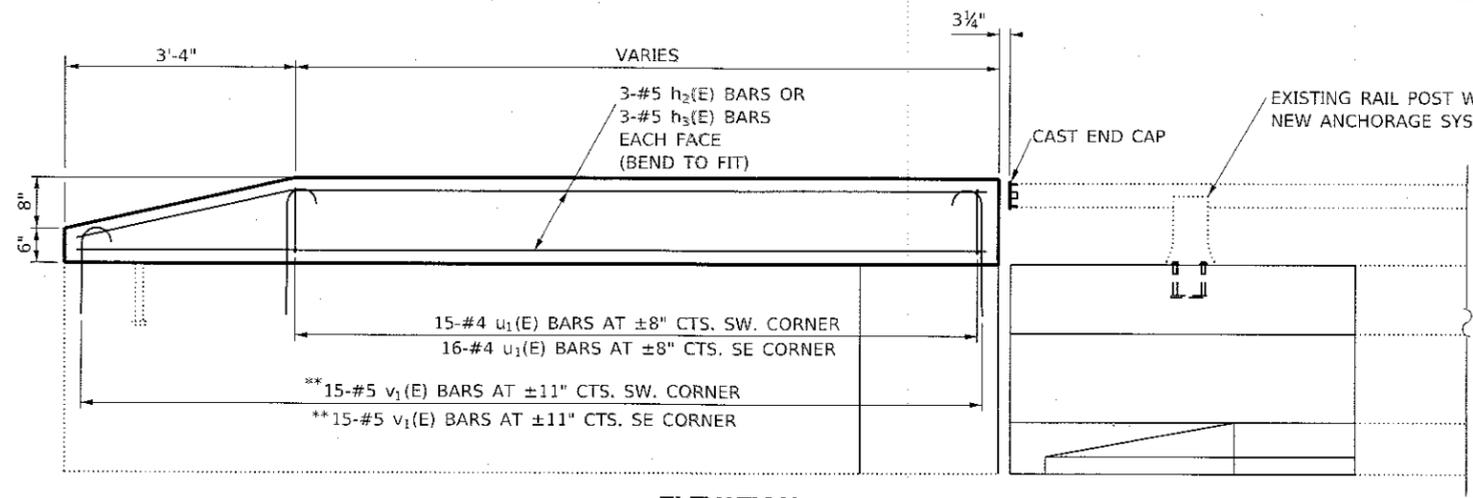
PROPOSED SUPERSTRUCTURE DETAILS

SCALE: SHEET 5 OF 15 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	(53-6B-1)BRR	LIVINGSTON	27	17
CONTRACT NO. 66H28				
ILLINOIS FED. AID PROJECT				

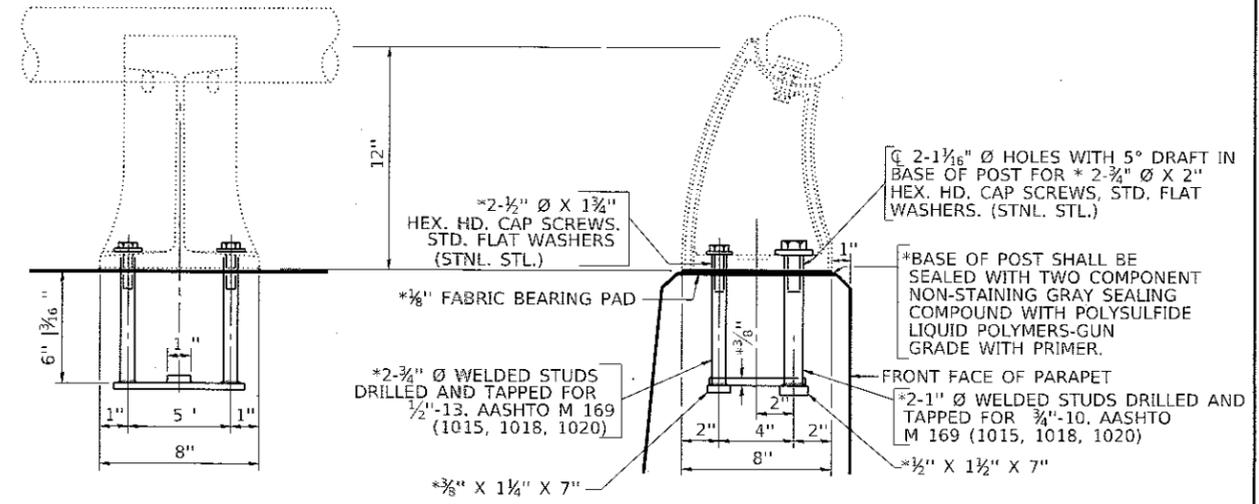
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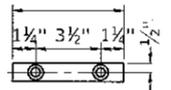
**ELEVATION**

\*\* EPOXY GROUT V<sub>1</sub>(E) BARS IN 9" MIN. HOLES ACCORDING TO ARTICLE 584 OF THE STANDARD SPECIFICATIONS

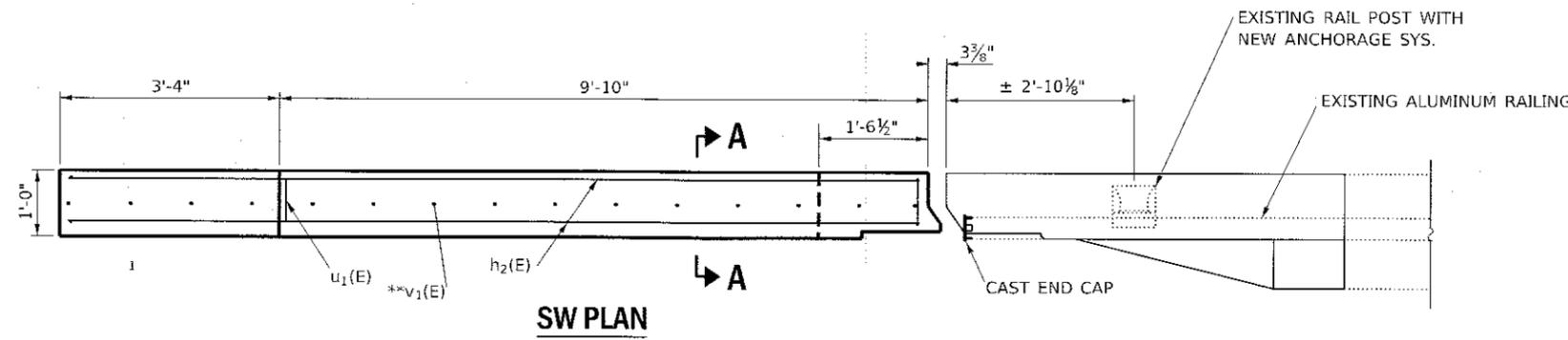


**RAIL POST DETAILS**

\*1 "RELOCATED" RAIL POST WITH "NEW" ANCHORAGE DEVICES WILL BE REQUIRED AT THE LOCATION SHOWN. COST TO BE INCLUDED IN "CONCRETE SUPERSTRUCTURE".

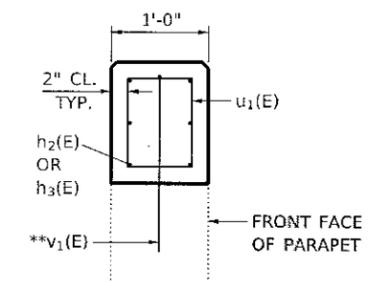


**CLAMP BAR**

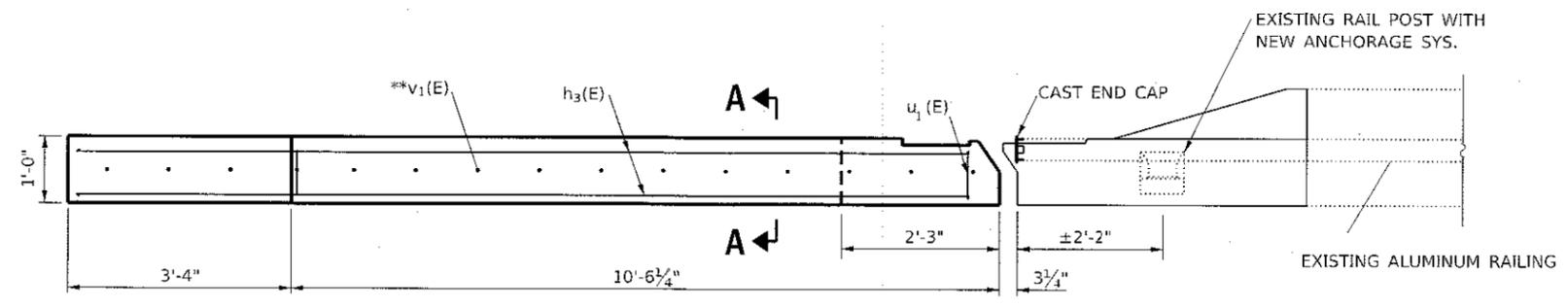


**SW PLAN**

(NE SIMILAR BY 180° ROTATION)

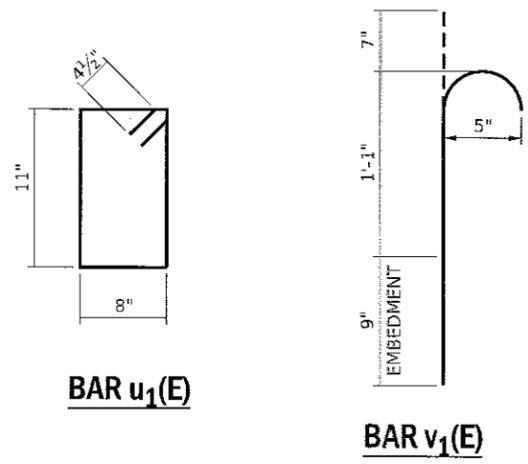


**SECTION A-A**



**SE PLAN**

(NW SIMILAR BY 180° ROTATION)



**BAR u<sub>1</sub>(E)**

**BAR v<sub>1</sub>(E)**

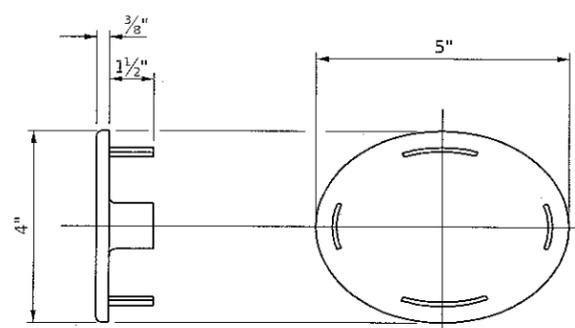
**BILL OF MATERIAL  
STRUCTURE NO. 053-0121 (NB)  
2 WING WALLS**

BAR NO.	SIZE	LENGTH	SHAPE
h <sub>2</sub> (E) 6	#5	12'-11"	—
h <sub>3</sub> (E) 6	#5	13'-3"	—
u <sub>1</sub> (E) 31	#4	3'-11"	D
v <sub>1</sub> (E) 30	#5	2'-5"	C
REINFORCEMENT BARS, EPOXY COATED			LBS. 323
CONCRETE STRUCTURES			CU. YDS. 1.2

**BILL OF MATERIAL  
STRUCTURE NO. 053-0120 (SB)  
2 WING WALLS**

BAR NO.	SIZE	LENGTH	SHAPE
h <sub>2</sub> (E) 6	#5	12'-11"	—
h <sub>3</sub> (E) 6	#5	13'-3"	—
u <sub>1</sub> (E) 31	#4	3'-11"	D
v <sub>1</sub> (E) 30	#5	2'-5"	C
REINFORCEMENT BARS, EPOXY COATED			LBS. 323
CONCRETE STRUCTURES			CU. YDS. 1.2

NOTE: THIS DETAIL SHALL BE USED "ONLY" AT THE FOLLOWING LOCATIONS.  
SW AND SE CORNERS ON SN 053-0121 (NB)  
NW AND NE CORNERS ON SN 053-0120 (SB)



**CAST END CAP**

DRIVE FIT TYPE

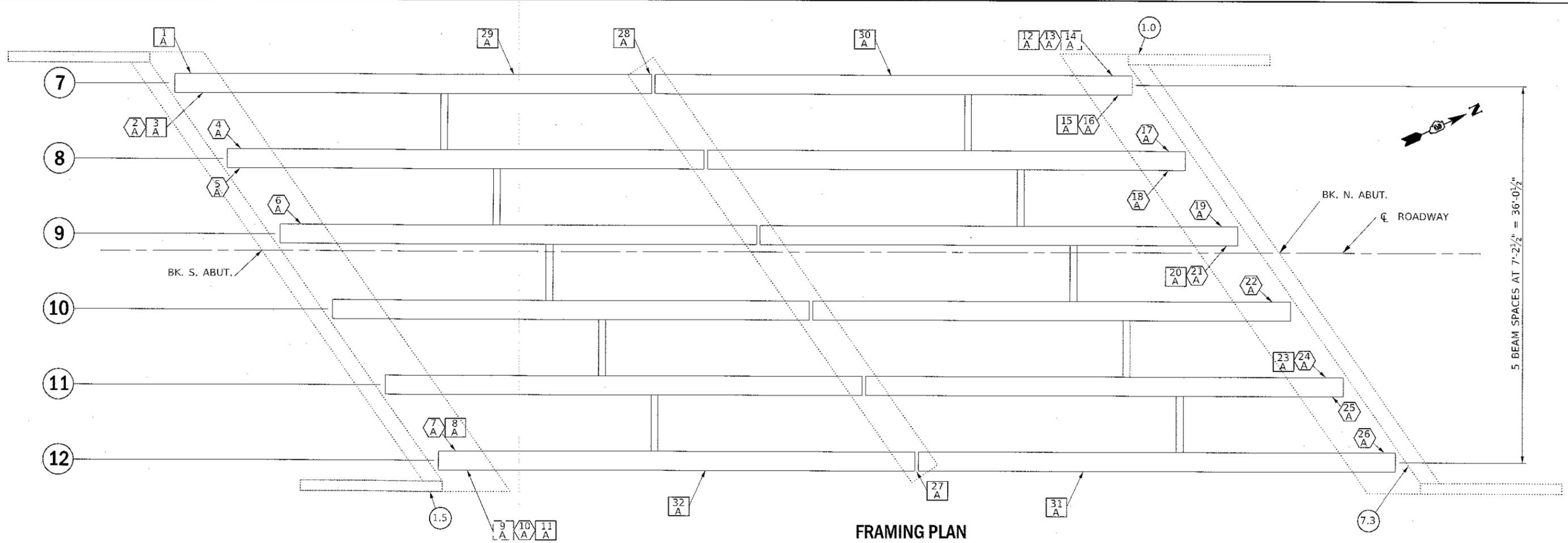
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

WINGWALL REPAIR

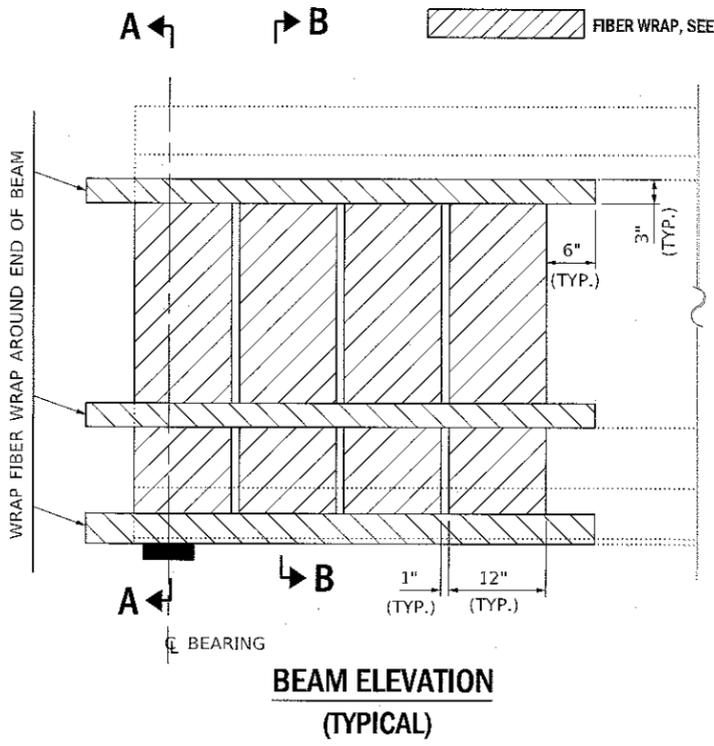
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SCALE: SHEET 7 OF 15 SHEETS STA. TO STA.

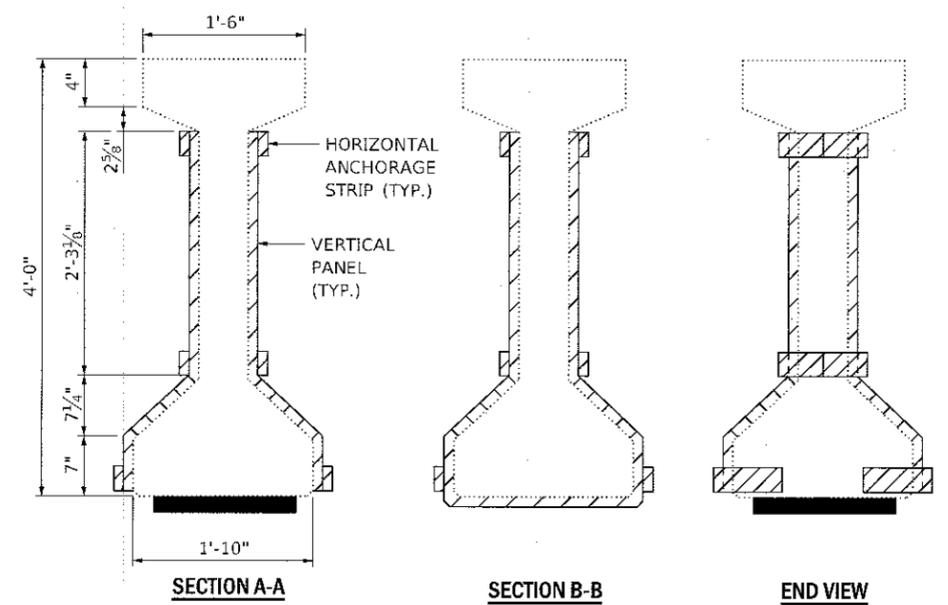
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	(53-68-1)BR	LIVINGSTON	27	19
				CONTRACT NO. 66H28
ILLINOIS FED. AID PROJECT				



**FRAMING PLAN**  
S.N. 053-0121 (NB)



**BEAM ELEVATION**  
(TYPICAL)



**BEAM CROSS SECTION**  
(TYPICAL)

**LEGEND**

- 7.3 SQUARE FOOT OF "STRUCTURAL REPAIR OF CONCRETE, (DEPTH ≤ 5")" REPAIRS ON ABUTMENTS
- 1A SQUARE FOOT OF "STRUCTURAL REPAIR OF CONCRETE, (DEPTH ≤ 5") REPAIRS ON BEAM FLANGE (TOP)
- 1A SQUARE FOOT OF "STRUCTURAL REPAIR OF CONCRETE, (DEPTH ≤ 5") REPAIRS ON BEAM FLANGE (BOTTOM)
- 1A SQUARE FOOT OF "POLYMER MODIFIED PORTLAND CEMENT MORTAR" REPAIRS ON BEAM WEB

**NOTE**  
PPC BEAM REPAIRS AND FIBER WRAP WORK SHALL BE COMPLETED PRIOR TO PLACING NEW CONCRETE AT THE EXPANSION JOINTS. ACRYLIC COATING SHALL BE APPLIED OVER FIBER WRAP REPAIRS. SEE SPECIAL PROVISION FOR "PRECAST PRESTRESSED CONCRETE I-BEAM REPAIR".

**BILL OF MATERIAL**  
STRUCTURE NO. 053-0121 (NB)

ITEM	UNIT	TOTAL
PRECAST PRESTRESSED CONCRETE I-BEAM REPAIR	SQ FT	42.7
STRUCTURAL REPAIR OF CONCRETE (DEPTH EQUAL TO OR LESS THAN 5")	SQ FT	9.8
FIBER WRAP	SQ FT	528
ACRYLIC COATING	SQ YD	289

MODEL: D:\dwg\...  
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 STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION  
 FRAMING PLAN  
 STRUCTURE NO. 053-0121 (NB)  
 SCALE: SHEET 8 OF 15 SHEETS STA. TO STA.  
 F.A.I. RTE. 55 SECTION (53-68-1)BRR COUNTY LIVINGSTON TOTAL SHEETS 27 SHEET NO. 20 CONTRACT NO. 66H28 ILLINOIS FED. AID PROJECT

**SCHEDULE - PPC I-BEAM REPAIR  
SCHEDULE - STRUCTURE NO. 053-0121**

PRECAST PRESTRESSED CONCRETE I-BEAM REPAIR REPAIR DIMENSIONS				FIBER WRAP	ACRYLIC COATING
NO.	LENGTH (ft)	VERTICAL (ft)	SQ FT	SQ FT	SQ YD
1A	1.0	0.3	0.3	11	2
2A	1.4	1.8	2.5	11	2
3A	1.1	0.4	0.5	11	2
4A	1.8	0.9	1.6	21	5
5A	1.8	1.0	1.8	21	5
6A	1.8	0.5	0.9	21	5
7A	1.0	0.5	0.5	11	2
8A	1.8	1.1	2.0	21	5
9A	5.0	0.5	2.5	51	11
10A	1.9	1.9	3.6	21	5
11A	1.0	0.3	0.3	11	2
12A	1.4	0.3	0.4	11	2
13A	2.0	1.8	3.6	21	5
14A	4.2	0.5	2.1	41	9
15A	1.2	0.3	0.4	11	2
16A	1.8	1.4	2.5	21	5
17A	1.8	1.5	2.7	21	5
18A	1.8	1.4	2.5	21	5
19A	1.8	1.5	2.7	21	5
20A	1.3	0.3	0.4	11	2
21A	1.8	1.2	2.2	21	5
22A	1.8	1.3	2.3	21	5
23A	1.4	0.3	0.4	11	2
24A	1.8	0.4	0.7	21	5
25A	2.0	0.4	0.8	21	5
26A	1.9	0.8	1.5	21	5
27A	1.3	0.4	0.5	11	2
28A	1.3	0.4	0.5	11	2
29A					43
30A					43
21A					43
32A					43
<b>TOTAL</b>			<b>42.7</b>	<b>528</b>	<b>289</b>

ACRYLIC COATING QUANTITY BASED ON "TWO" COATS ON FIBER WRAP AND ONE COAT  
(THE ENTIRE LENGTH OF BEAM) ON THE EXTERIOR FACE AND BOTTOM FACE OF FASCIA BEAMS.

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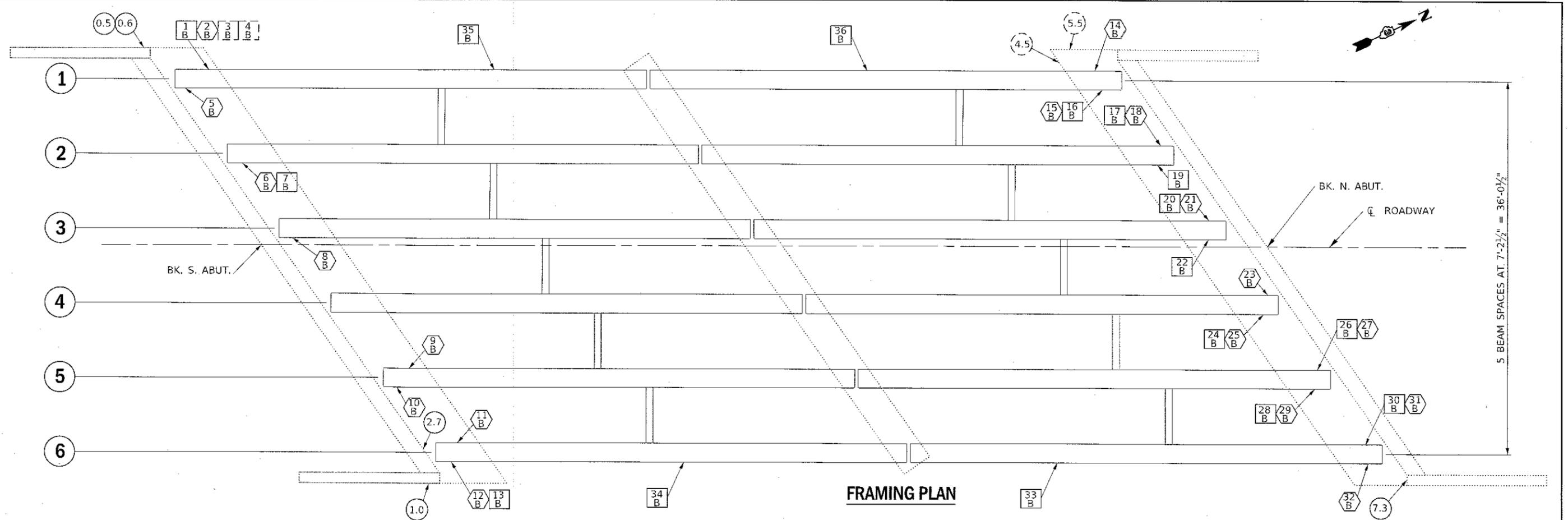
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PLOT DATE = 4/2/2018	DATE - 11/15/2017	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**PPC I-BEAM REPAIR SCHEDULES  
STRUCTURE NO. 053-0121 (NB)**

SCALE: SHEET 9 OF 15 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	(53-6B-1)BRR	LIVINGSTON	27	21
			CONTRACT NO. 66H28	
ILLINOIS		FED. AID PROJECT		



**FRAMING PLAN**  
S.N. 053-0120 (SB)

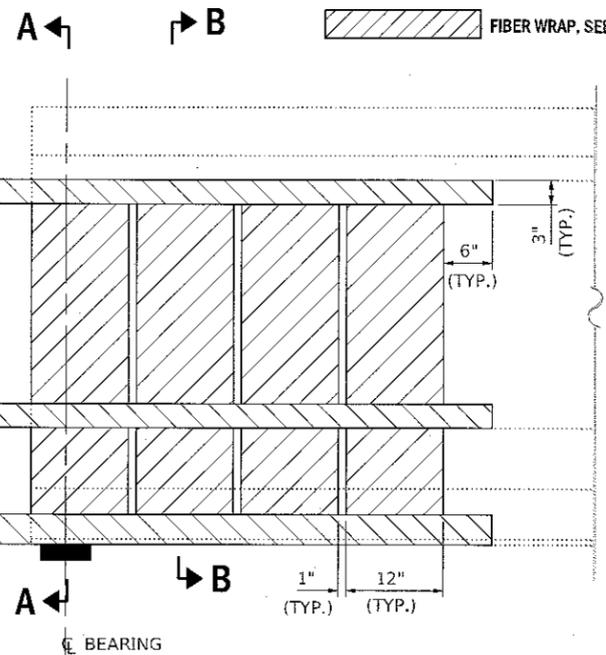
**LEGEND**

- (7.3) SQUARE FOOT OF "STRUCTURAL REPAIR OF CONCRETE, (DEPTH ≤ 5")" REPAIRS ON ABUTMENTS
- [1 A] SQUARE FOOT OF "STRUCTURAL REPAIR OF CONCRETE, (DEPTH ≤ 5") REPAIRS ON BEAM FLANGE (TOP)
- [1 A] SQUARE FOOT OF "STRUCTURAL REPAIR OF CONCRETE, (DEPTH ≤ 5") REPAIRS ON BEAM FLANGE (BOTTOM)
- (1 A) SQUARE FOOT OF "POLYMER MODIFIED PORTLAND CEMENT MORTAR" REPAIRS ON BEAM WEB

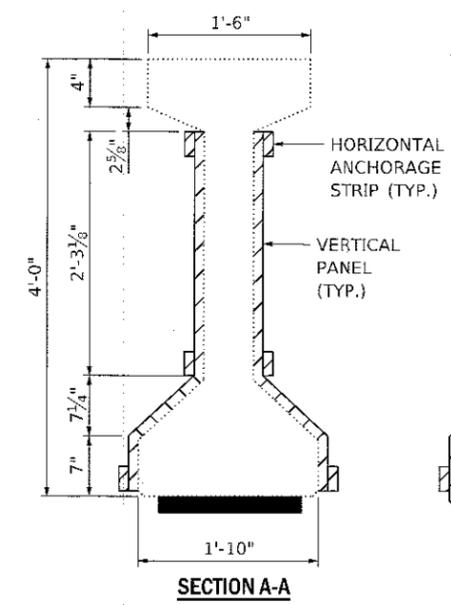
**NOTE**  
PPC BEAM REPAIRS AND FIBER WRAP WORK SHALL BE COMPLETED PRIOR TO PLACING NEW CONCRETE AT THE EXPANSION JOINTS. ACRYLIC COATING SHALL BE APPLIED OVER FIBER WRAP REPAIRS. SEE SPECIAL PROVISION FOR "PRECAST PRESTRESSED CONCRETE I-BEAM REPAIR".

**BILL OF MATERIAL**  
STRUCTURE NO. 053-0120 (SB)

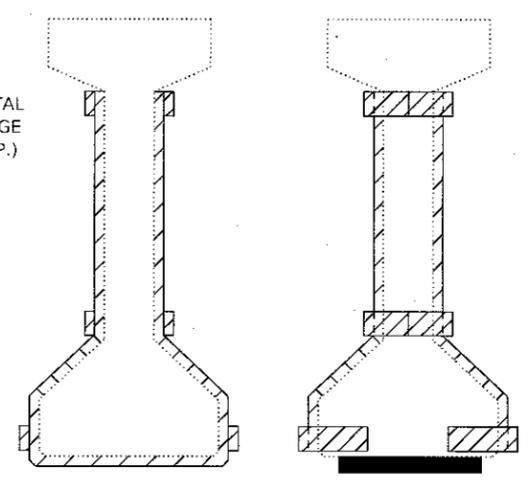
ITEM	UNIT	TOTAL
PRECAST PRESTRESSED CONCRETE	SQ FT	78.5
I-BEAM REPAIR		
STRUCTURAL REPAIR OF CONCRETE (DEPTH EQUAL TO OR LESS THAN 5")	SQ FT	12.1
STRUCTURAL REPAIR OF CONCRETE (DEPTH GREATER THAN 5")	SQ FT	10
FIBER WRAP	SQ FT	750
ACRYLIC COATING	SQ YD	342



**BEAM ELEVATION**  
(TYPICAL)



**SECTION A-A**



**SECTION B-B**

**END VIEW**

**BEAM CROSS SECTION**  
(TYPICAL)

**SCHEDULE - PPC I-BEAM REPAIR**  
**SCHEDULE - STRUCTURE NO. 053-0120**

PRECAST PRESTRESSED CONCRETE I-BEAM REPAIR REPAIR DIMENSIONS				FIBER WRAP	ACRYLIC COATING
NO.	LENGTH (ft)	VERTICAL (ft)	SQ FT	SQ FT	SQ YD
1B	1.3	0.4	0.5	11	2
2B	1.9	0.8	1.5	21	5
3B	4.4	0.5	2.2	41	9
4B	7.0	2.0	14.0	70	16
5B	2.8	1.8	5.0	31	7
6B	1.8	1.0	1.8	21	5
7B	1.2	0.3	0.4	1	0
8B	1.8	1.0	1.8	21	5
9B	1.7	0.7	1.2	21	5
10B	2.0	0.4	0.8	21	5
11B	1.9	0.9	1.7	21	5
12B	2.4	1.8	4.3	31	7
13B	2.1	1.2	2.5	21	5
14B	1.8	1.3	2.3	21	5
15B	1.8	1.1	2.0	21	5
16B	2.2	1.0	2.2	31	7
17B	5.5	1.2	6.6	60	13
18B	1.8	1.8	3.2	21	5
19B	1.4	1.2	1.7	11	2
20B	1.2	1.0	1.2	11	2
21B	2.0	0.4	0.8	21	5
22B	1.3	1.2	1.6	11	2
23B	1.8	1.4	2.5	21	5
24B	1.3	1.2	1.6	11	2
25B	1.8	0.7	1.3	21	5
26B	1.2	1.1	1.3	11	2
27B	1.7	1.1	1.9	21	5
28B	1.5	1.2	1.8	21	5
29B	2.0	0.4	0.8	21	5
30B	3.3	1.2	4.0	41	9
31B	1.8	1.4	2.5	21	5
32B	1.9	0.8	1.5	21	5
33B					43
34B					43
35B					43
36B					43
<b>TOTAL</b>			<b>78.5</b>	<b>750</b>	<b>342</b>

ACRYLIC COATING QUANTITY BASED ON "TWO" COATS ON FIBER WRAP AND ONE COAT  
 (THE ENTIRE LENGTH OF BEAM) ON THE EXTERIOR FACE AND BOTTOM FACE OF FASCIA BEAMS.

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	DRAWN - RW	REVISED -
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PLOT DATE = 4/2/2018	DATE - 11/15/2017	REVISED -

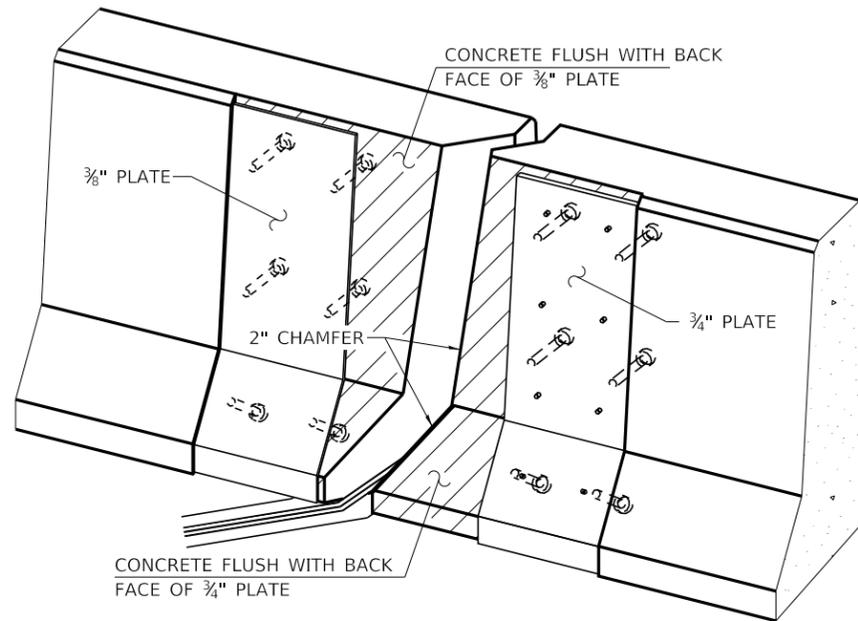
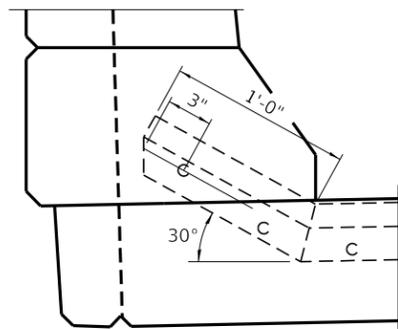
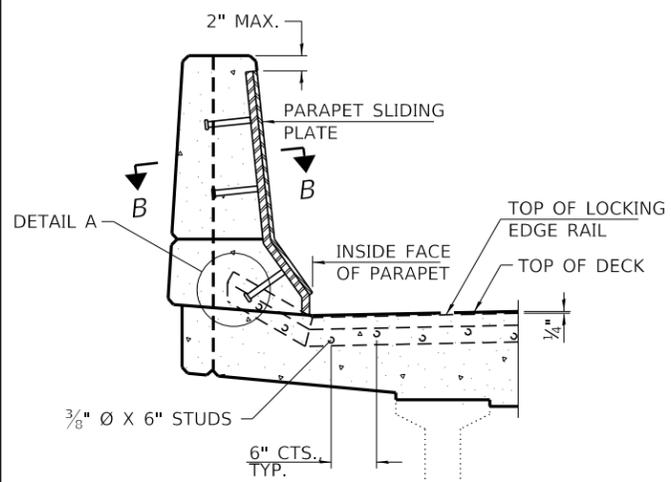
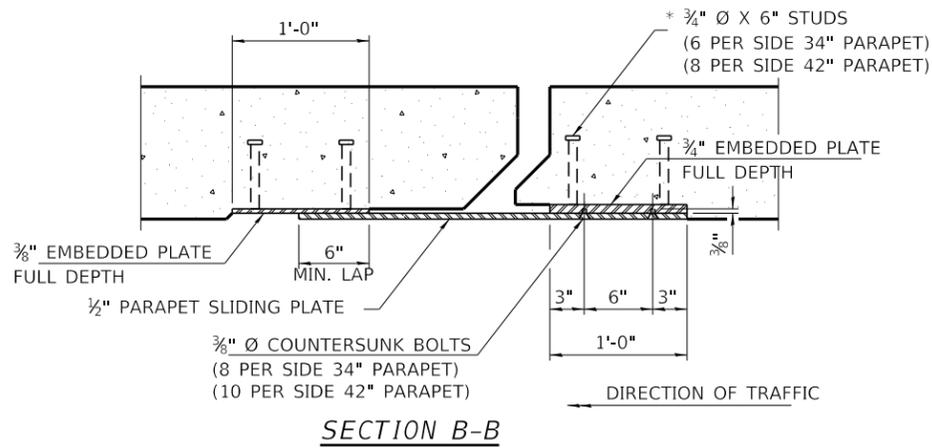
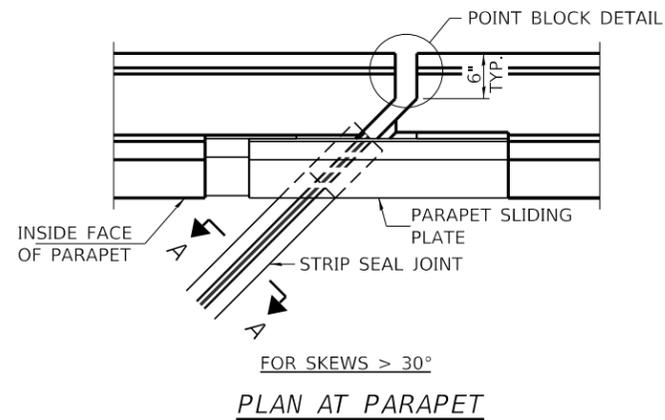
**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

**PPC I-BEAM REPAIR SCHEDULES**  
**STRUCTURE NO. 053-0120 (SB)**

SCALE: SHEET 11 OF 15 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	(53-6B-1)BRR	LIVINGSTON	27	23
CONTRACT NO. 66H28				
ILLINOIS FED. AID PROJECT				





**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.

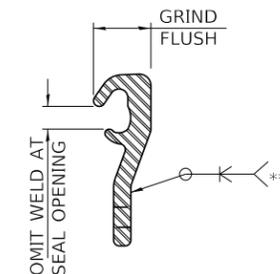
ALL STEEL COMPONENTS SHALL BE GALVANIZED AFTER FABRICATION ACCORDING TO ARTICLE 520.03 OF THE STANDARD SPECIFICATIONS.

THE MAXIMUM SPACE BETWEEN LOCKING EDGE RAIL SEGMENTS SHALL BE 3/16" 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.

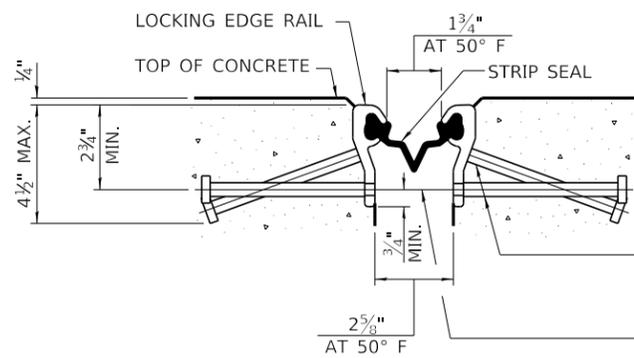
34" F-SHAPE BARRIER SHOWN, 42" F-SHAPE SIMILAR AS NOTED.

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.



**LOCKING EDGE RAIL SPLICE**

THE INSIDE OF THE LOCKING EDGE RAIL GROOVE SHALL BE FREE OF WELD RESIDUE. ROLLED RAIL SHOWN, WELDED RAIL SIMILAR.

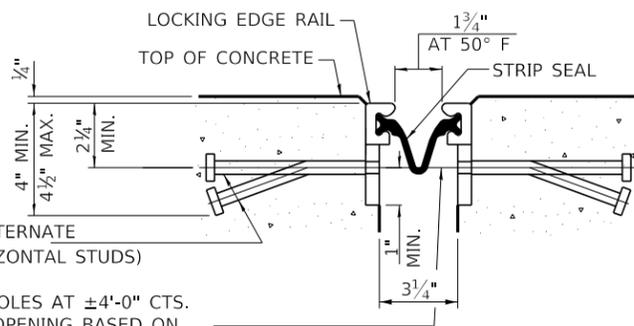


\* 3/8" Ø X 6" STUDS @ 6" CTS. (ALTERNATE ANGLED/BENT STUDS WITH HORIZONTAL STUDS)

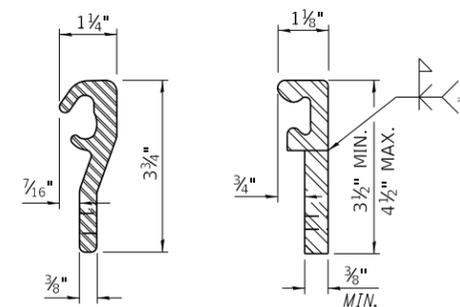
3/8" Ø THREADED RODS IN 7/16" Ø HOLES AT ±4'-0" CTS. FOR HOLDING THE PROPER JOINT OPENING BASED ON THE TEMPERATURE DURING THE DECK POUR. PLACE TO MISS STUDS. ALL RODS SHALL BE BURNED, OR SAWED OFF FLUSH WITH THE PLATES AFTER CONCRETE IS SET.

**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.

**BILL OF MATERIAL  
STRUCTURE NO. 053-0121 (NB)**

ITEM	UNIT	TOTAL
PREFORMED JOINT STRIP SEAL	FOOT	100

**BILL OF MATERIAL  
STRUCTURE NO. 053-0120 (SB)**

ITEM	UNIT	TOTAL
PREFORMED JOINT STRIP SEAL	FOOT	100

EJ-SS 8-11-17

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	DATE - 11/15/2017	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

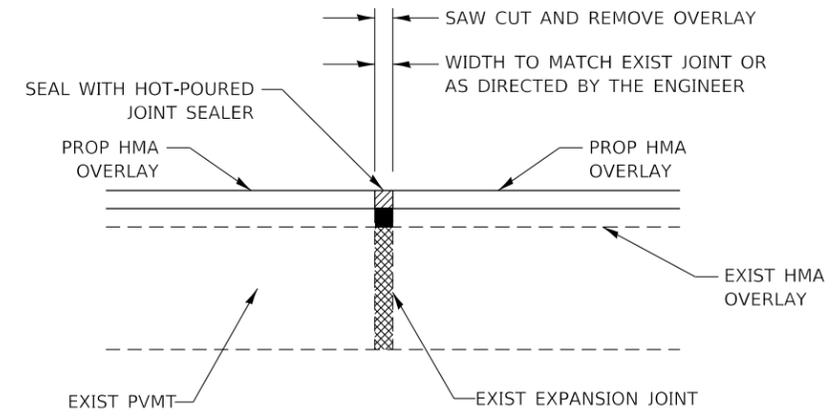
PREFORMED JOINT STRIP SEAL  
STRUCTURE NO.S 053-0121 (NB) & 053-0120 (SB)

SCALE: SHEET 13 OF 15 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	(53-6B-1)BRR	LIVINGSTON	27	25
			CONTRACT NO. 66H28	
ILLINOIS FED. AID PROJECT				

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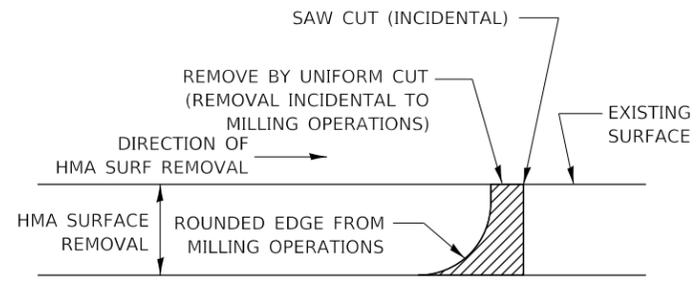




**EXPANSION JOINT REHABILITATION DETAIL**

**GENERAL NOTES:**

1. THE NEW HMA OVERLAY SHALL BE SAWED, REMOVED AND THE JOINT AREA CLEANED. PRIOR TO PLACING THE HOT-POURED JOINT SEALER, THE JOINT SHALL BE BLOWN OUT WITH COMPRESSED AIR.
2. THIS WORK WILL BE PAID FOR AT THE CONTRACT UNIT PRICE PER FOOT FOR EXPANSION JOINT REHABILITATION.



**NOTE:**  
 WHEN MILLING OPERATIONS PRODUCE A ROUNDED EDGE, THEN A SAW CUT SHALL BE USED TO MANUFACTURE A PERPENDICULAR EDGE AS SHOWN IN THE DETAIL. THE ENGINEER SHALL BE THE SOLE JUDGE CONCERNING THE USE OF THIS DETAIL

**HMA DETAIL AT BUTT JOINTS**

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PLOT DATE = 4/2/2018	DATE - 11/15/2017	REVISED -

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**HMA RESURFACING DETAILS**

SCALE: SHEET 15 OF 15 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	(53-6B-1)BRR	LIVINGSTON	27	27
CONTRACT NO. 66H28				
ILLINOIS FED. AID PROJECT				