STATE OF ILLINOIS

DEPARTMENT OF TRANSPORTATION

DIVISION OF HIGHWAYS

PROPOSED HIGHWAY PLANS

> S.B.I. 34 (IL 34) SECTION 3(I-1)

BRIDGE EXPANSION JOINT REPLACEMENT

FOR INDEX OF SHEETS, SEE SHEET NO. 2

GRAND PIER TOWNSHIP

TRAFFIC DATA:

0

0

0

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BRIDGE DATA:

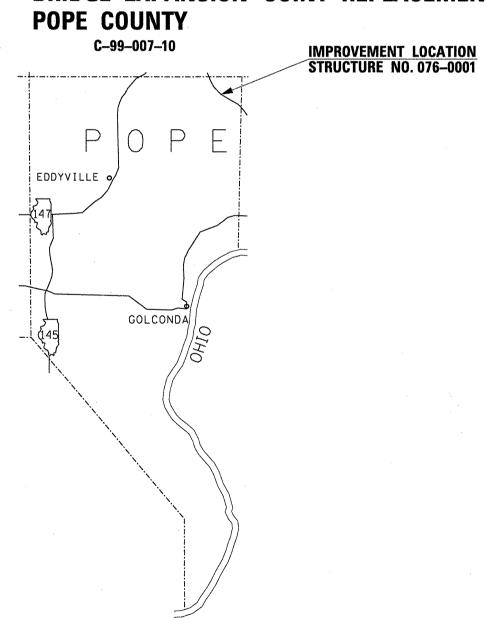
2009 ADT = 255031% TRUCKS

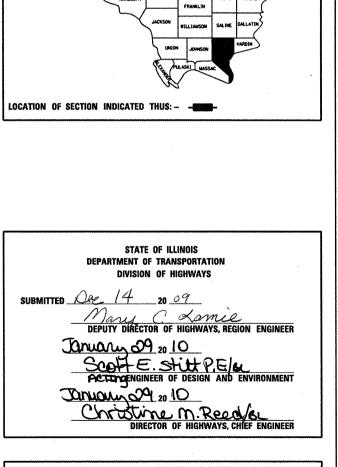
INVENTORY RATING 25.1 OPERATING RATING 41.9

JOINT UTILITY LOCATION INFORMATION FOR EXCAVATION 1-800-892-0123 OR 811

PROJECT ENGINEER **PROJECT MANAGER** **Dennis Hillebrenner Richard Brasel**

CONTRACT NO. 78153





POPE 17 1

3(1-1)

PRINTED BY THE AUTHORITY OF THE STATE OF ILLINOIS

INDEX OF SHEETS

SHEET NO.	DESCRIPTION
1	COVER SHEET
2	INDEX OF SHEETS, STANDARDS, SIGNATURES
3	GENERAL NOTES
4	SUMMARY OF QUANTITIES
5	HMA MIX DESIGN, PAVEMENT MARKING
6	GENERAL PLAN AND ELEVATION
7	CONCRETE REMOVAL PLAN, GUARDRAIL, HMA SHOULDERS
8	CONCRETE SUPERSTRUCTURE PLAN
9	CONCRETE REMOVAL & SUPERSTRUCTURE SECTIONS, BILL OF REINFORCEMENT
10	DECK CROSS SECTION NEAR JOINT
11	SECTIONS THRU CURB
12	PREFORMED JOINT STRIP SEAL
13	RAIL POST ANCHOR DEVICES
14	CONCRETE REPAIR AT WEST ABUTMENT
15	BAR SPLICER ASSEMBLY DETAILS
16	STAGE CONSTRUCTION
17	SIDE ROAD TRAFFIC CONTROL

STANDARDS

630001-08

701201-03 LANE CLOSURE, 2L, 2W DAY ONLY 701316-04 LANE CLOSURE, 2L, 2W, BRIDGE REPAIR 701901-01 TRAFFIC CONTROL DEVICES

Prepared By: Examined By: Approved By: S.B.I. RTE. 34

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GENERAL NOTES

WHILE SIGNAL HEADS ARE MOUNTED IN PLACE, BUT NOT YET IN OPERATION, THEY SHALL BE SECURELY COVERED IN WHITE PLASTIC.

THE ADVANCE DETECTOR LOOPS ARE TYPICALLY LOCATED 275 FEET IN ADVANCE OF THE STOP BAR. THE BUREAU OF OPERATIONS MUST APPROVE THE LOOP LOCATIONS PRIOR TO INSTALLATION.

ANY TIME THAT HOLES AT EXPANSION JOINTS ARE OPEN, THEY SHALL BE COVERED WITH METAL PLATES CAPABLE OF CARRYING THE FULL WEIGHT OF AN ERRANT VEHICLE. PLATES SHALL BE PLACED DIRECTLY ON THE CONCRETE DECK. PROJECTIONS ABOVE THE ROADWAY SURFACE GREATER THAN 1" ARE NOT PERMITTED EXCEPT FOR HEADS OF BOLTS.

TRAFFIC CONTROL SIGNS SHALL BE PLACED SO THAT THEY DO NOT INTERFERE WITH EXISTING SIGNS OR FLASHING BEACONS. THE DIMENSIONS BETWEEN SIGNS MAY BE MODIFIED SLIGHTLY SO AS TO AVOID CONFLICTS WITH EXISTING SIDE ROADS, COMMERCIAL ENTRANCES, AND PRIVATE ENTRANCES. THE BUREAU OF OPERATIONS SHOULD APPROVE FINAL PLACEMENT OF TRAFFIC CONTROL SIGNING.

PLAN DIMENSIONS AND DETAILS RELATIVE TO EXISTING PLANS ARE SUBJECT TO ROUTINE 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 THE WORK, HOWEVER, THE CONTRACTOR WILL BE PAID FOR THE QUANTITY ACTUALLY FURNISHED AT THE UNIT PRICE BID FOR THE WORK.

THE COST OF ANY SAW CUTS MADE TO COMPLETE THE WORK AS DESCRIBED IN PLAN DETAILS SHALL NOT BE PAID FOR SEPARATELY BUT SHALL BE INCLUDED IN THE VARIOUS PAY ITEMS INVOLVED.

PRIOR TO POURING CONCRETE AT JOINT RECONSTRUCTION, ALL HEAVY OR LOOSE RUST, LOOSE MILL SCALE, OR OTHER LOOSE OR POTENTIALLY DETRIMENTAL FOREIGN MATERIAL SHALL BE REMOVED FROM THE SURFACES IN CONTACT WITH THE NEW CONCRETE. THE REMOVAL SHALL BE ACCOMPLISHED BY METHODS WHICH WILL NOT DAMAGE THE STEEL. THE COST IS INCLUDED WITH "CONCRETE SUPERSTRUCTURE".

REINFORCEMENT BARS SHALL CONFORM TO THE REQUIREMENTS OF ASTM A 706 Gr 60 (IL MODIFIED). SEE SPECIAL PROVISIONS.

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".

COST OF REMOVAL OF EXISTING HMA SURFACE IN REMOVAL AREA AND PJS JOINT IS 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° F.

IN ADDITION TO THE REQUIREMENTS OF ARTICLE 107.16 THE CONTRACTOR SHALL PROTECT THE SURFACE OF ALL BRIDGE DECKS AND BRIDGE APPROACH PAVEMENTS IN A MANNER SATISFACTORY TO THE ENGINEER BEFORE ANY EQUIPMENT IS ALLOWED TO CROSS THE STRUCTURE. PROTECTION SHALL BE PROVIDED FOR ALL EQUIPMENT AS DEFINED IN ARTICLE 101.16 REGARDLESS IF TRACK MOUNTED OR WHEELED.

CONSTRUCTION OF TEMPORARY SHOULDERS AND GUARDRAIL REPLACEMENT SHALL BE COMPLETED PRIOR TO OPERATION OF TEMPORARY BRIDGE TRAFFIC SIGNALS.

TEMPORARY RUMBLE STRIPS ARE REQUIRED AS SHOWN ON TRAFFIC CONTROL STANDARD 701316.

EXTRA CONES OR BARRELS MAY BE REQUIRED TO CHANNEL TRAFFIC AT COMMERCIAL AND/OR PRIVATE ENTRANCES AS DIRECTED BY THE ENGINEER. ALL TRAFFIC CONTROL DEVICES ARE INCLUDED IN THE COST OF TRAFFIC CONTROL STANDARDS 701201 AND 701316, AND WILL NOT BE PAID FOR SEPARATELY.

HMA SHOULDER SURFACE SHALL BE FLUSH WITH THE SURFACE OF THE ADJACENT DRIVING LANE WHENEVER THE LANE IS OPEN TO TRAFFIC.

BRIDGE RAIL POSTS IN THE CONCRETE REMOVAL AREA SHALL BE REMOVED AND RE-INSTALLED. ALL RAILS SHALL REMAIN CONNECTED TO ALL OTHER POSTS AT ALL TIMES.

COMMITMENTS: NONE

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SCALE:	SHEET NO	OF SHEETS	STA	TO STA		ILLINOIS FED. AI	D PROJECT		

SUMMARY OF QUANTITIES

		FUNDING:		TATE
		COUNTY: LOCATION:	POPE 076-00	01
		ROUTE:	IL 34	<u> </u>
		CONST TYPE CODE:		A
	CODE NO.	ITEM DESCRIPTION	UNIT	QUANTITY
	48203037	HOT-MIX ASPHALT SHOULDERS, 10"	SQ YD	84.3
	50102400	CONCRETE REMOVAL	CU YD	8.5
		CONCRETE STRUCTURES	CU YD	0.2
	50300255	CONCRETE SUPERSTRUCTURE	CU YD	8. 9
	50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	1260
	50800515	BAR SPLICERS	EACH	18
٠	52000110	PREFORMED JOINT STRIP SEAL	FOOT	78
X	63000001	STEEL PLATE BEAM GUARD RAIL, TYPE A, 6 FOOT POSTS	FOOT	25
X	63100167	TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT	EACH	1
	63200305	STEEL PLATE BEAM GUARD RAIL REMOVAL	FOOT	25
	63304385	TRAFFIC BARRIER TERMINAL REMOVAL, TYPE 1	EACH	1
	67100100	MOBILIZATION	L SUM	1
	70100450	TRAFFIC CONTROL AND PROTECTION, STANDARD 701201	L SUM	1
	70100900	TRAFFIC CONTROL AND PROTECTION, STANDARD 701316 (SPECIAL)	EACH	1
	70106500	TEMPORARY BRIDGE TRAFFIC SIGNALS	EACH	1
	70106700	TEMPORARY RUMBLE STRIP	EACH	6
	70106800	CHANGEABLE MESSAGE SIGN	CAL MO	2
	70300210	TEMPORARY PAVEMENT MARKING - LETTERS AND SYMBOLS	SQ FT	8.8
	70300625	TEMPORARY PAINT PAVEMENT MARKING LINE 4"	FOOT	400
	70301000	WORK ZONE PAVEMENT MARKING REMOVAL	SQ FT	476
¥		PAINT PAVEMENT MARKING - LINE 4"	FOOT	1500
¥	78201000	TERMINAL MARKER - DIRECT APPLIED	EACH	1
			,	

*Specialty Items

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HOT-MIX ASPHALT MIX DESIGN

LOCATION:	TEMPORARY HOT MIX ASPHALT SHOULDERS
MIXTURE USE(S):	HOT-MIX ASPHALT SHOULDERS
AC/PG:	PG58-22
RAP % (MAX):	50
DESIGN AIR VOIDS:	2.0%, 30 GYRATION DESIGN
MIXTURE COMPOSITION: (GRADATION MIXTURE)	HMA SHOULDERS
FRICTION AGGREGATE:	NONE

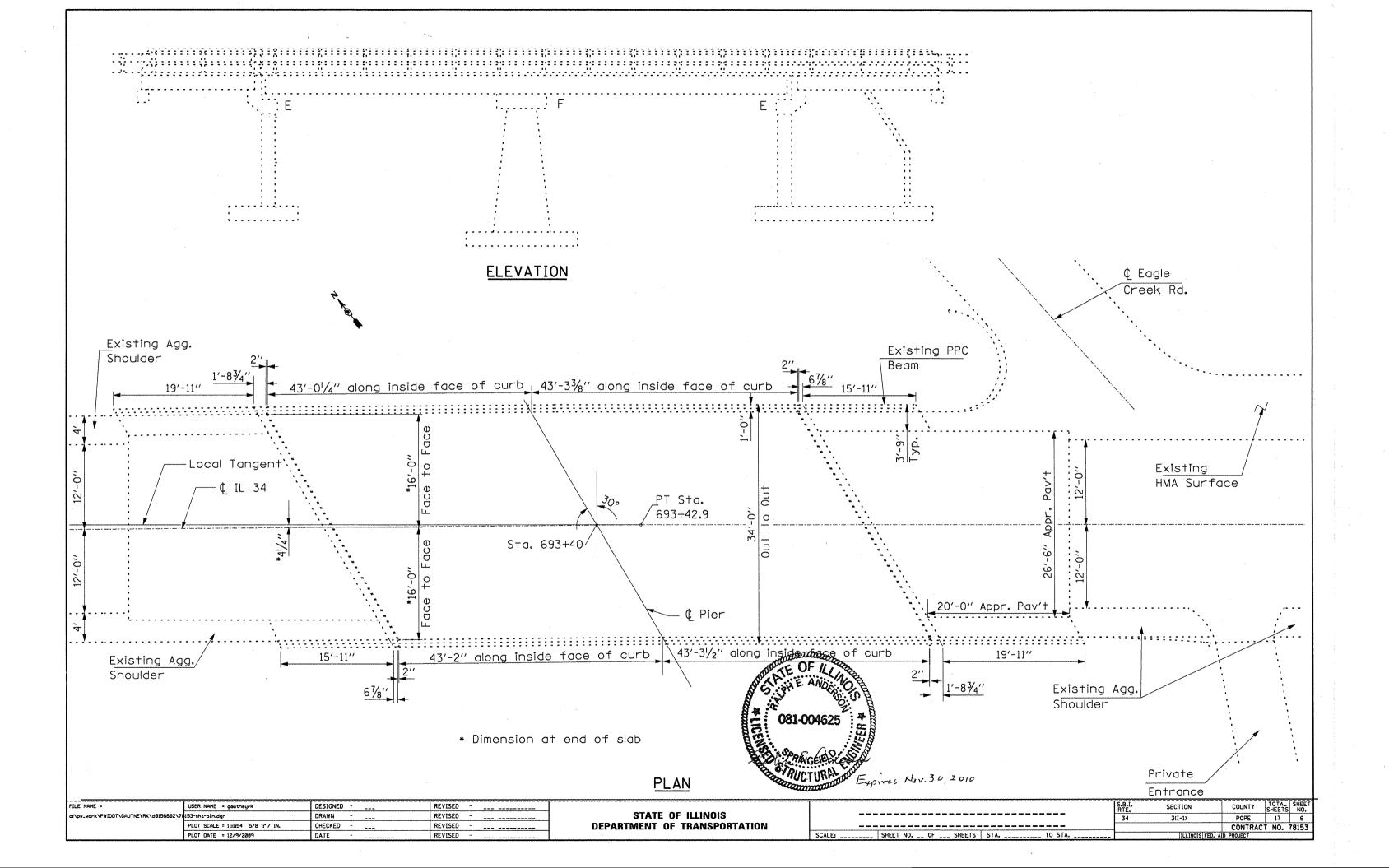
PAINT PAVEMENT MARKING - LINE 4"

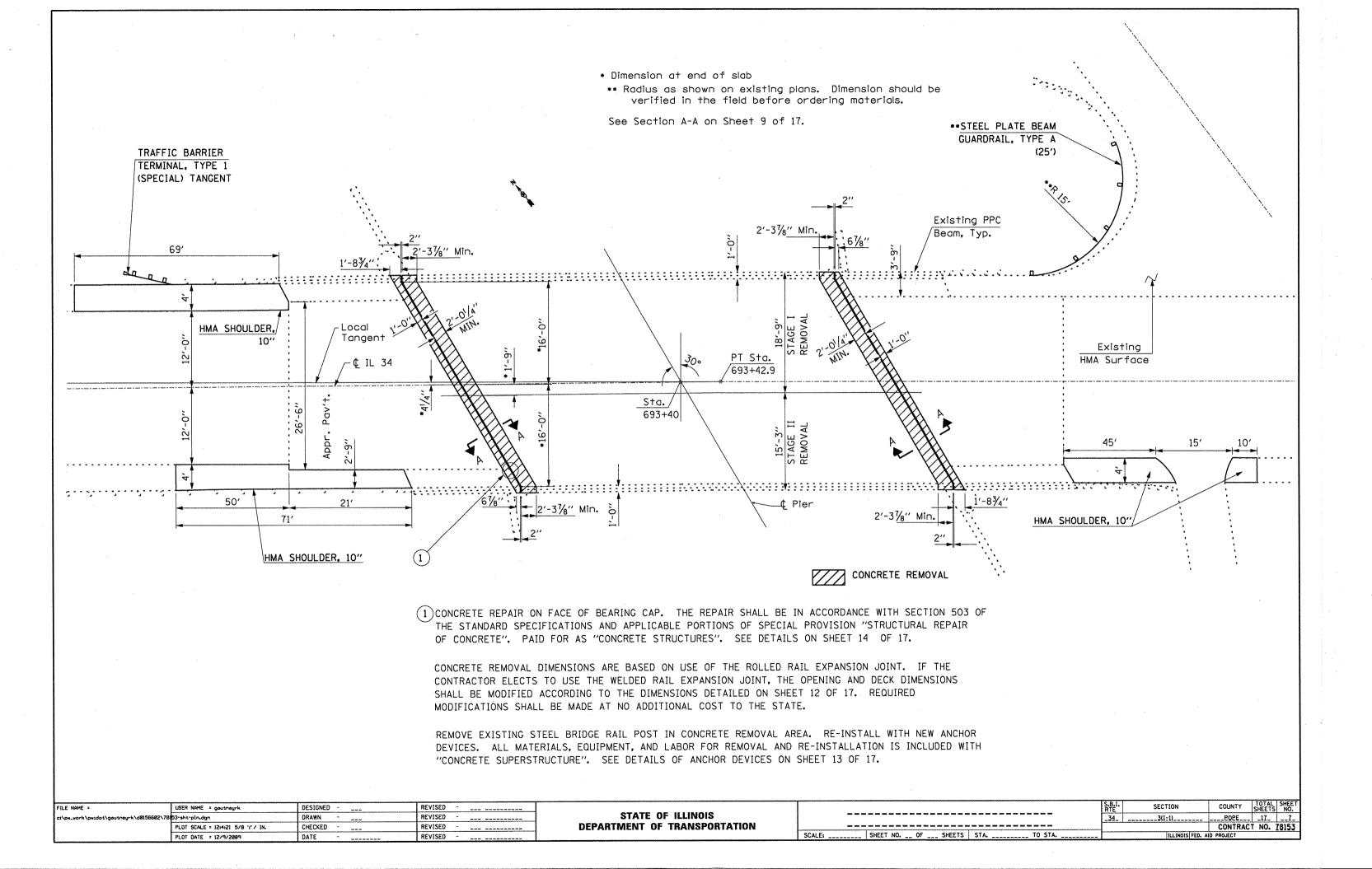
COLOR	QUANTITY (FOOT)
WHITE	400
YELLOW	1100
TELLOW	1100
TOTAL	1500

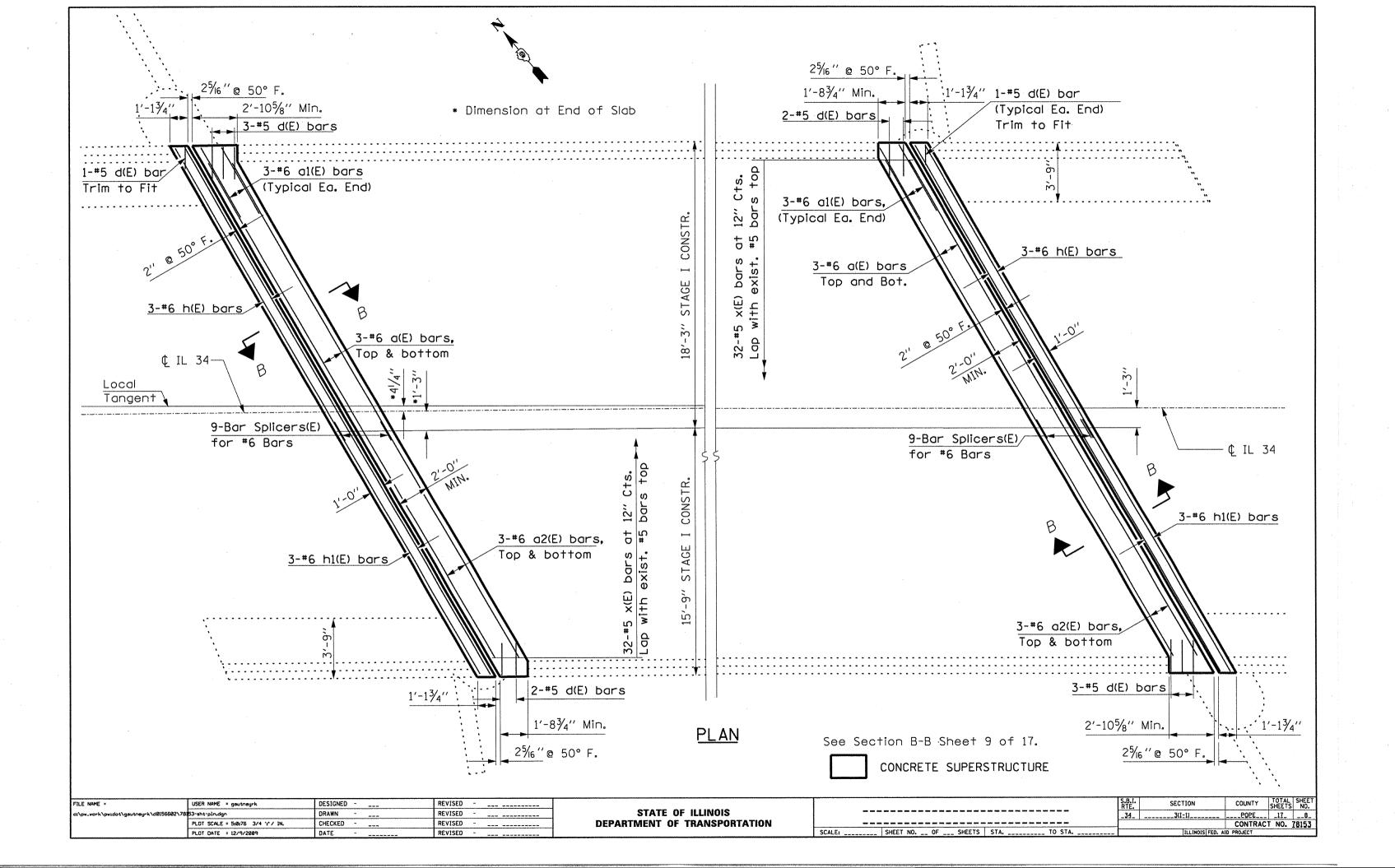
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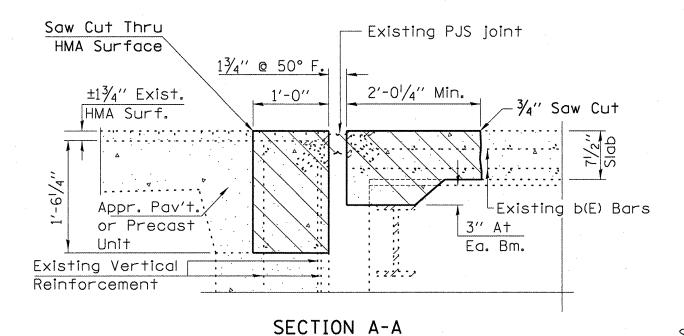
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Showing Removal (At Right Angle to Abutment) See Section Thru Curb on Sheet 11 of 17.

1'-10''

x(E) Bar

#5 Bar = 2'-2''

#6 Bar = 2'-7''

2

PREFORMED JOINT STRIP SEAL See Details on Sheet 12 of 17. #5 x(E) bars at 12" cts. Lap with existing b(E) bars $1\frac{1}{2}$ " Joint Bonded Constr. Opening @ 50° F. Joint Existing b(E) Bars 2'-0" Min. h(E) or h1(E)-Appr. Pav't. or ∑2" @ 50° F. 13" At Ea. Bm. Precast Unit Existing Vertical cl. Typ. -a(E) or a2(E)Reinforcement MINIMUM BAR LAPS SECTION B-B Showing Reinforcement

(At Right Angle to Abutment)

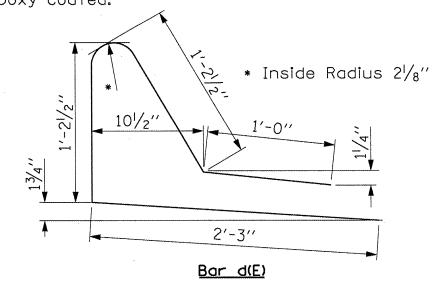
BILL OF MATERIAL JOINT RECONSTRUCTION

Bar	No.	Size	Length	Shape
a(E)	12	#6	18'-0''	***************************************
a1(E)	12	#6	4'-9''	
a2(E)	12	#6	15'-7''	

d(E)	14	#5	5′-8′′	

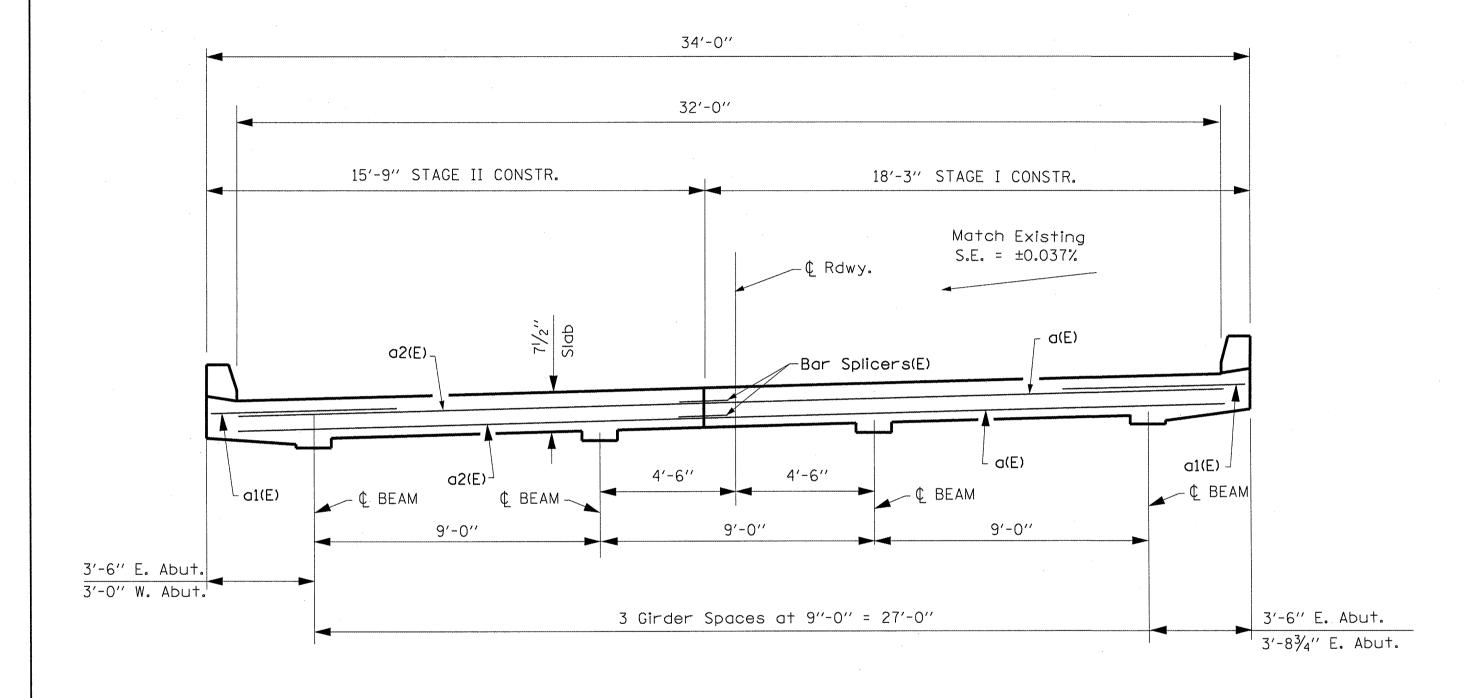
h(E)	6	#6	18'-0''	
h1(E)	6	#6	15'-7''	
×(E)	64	#5	2'-3''	
Concre	ete Ren	noval	Cu. Yd.	8.5
Concre Supers	ete structu	ıre	Cu. Yd.	8.9
Bar Splicers			Each	18
Reinforcement Bars, Epoxy Coated			Pound	1230

Reinforcement bars designated (E) shall be epoxy coated.



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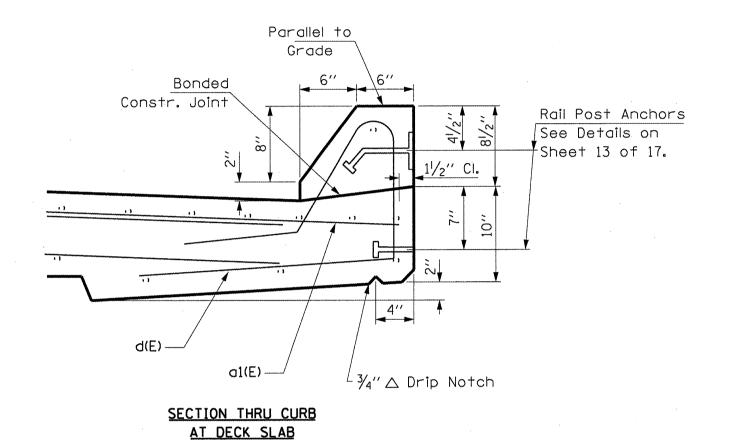


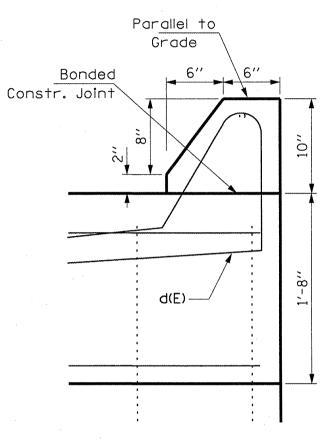
DECK CROSS SECTION

See Section Thru Curb on Sheet 11 of 17.

(NEAR JOINT, LOOKING WEST)
DIMENSIONS AT RIGHT ANGLE TO CENTERLINE OF ROADWAY

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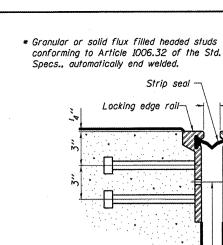




SECTION THRU CURB
ADJACENT TO APPROACH BEAM

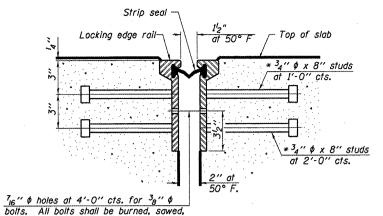
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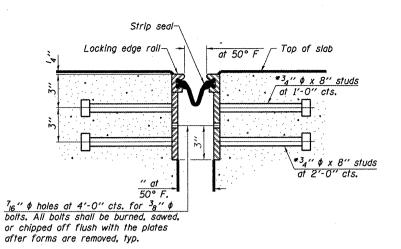
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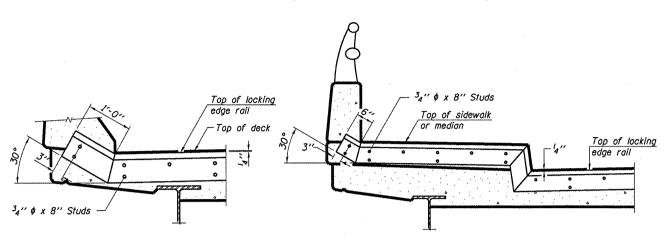


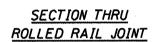
or chipped off flush with the plates

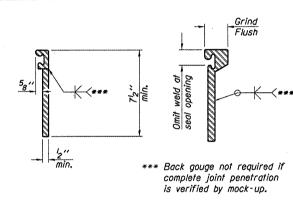
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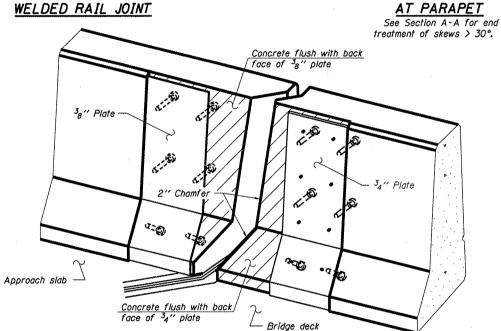


ROLLED EXTRUDED RAIL WELDED RAIL

LOCKING EDGE RAIL SPLICE

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

SECTION THRU WELDED RAIL JOINT



AT SIDEWALK OR MEDIAN

Shorter plates with a single row of studs at 12" cts. may be necessary on medians which are shallower than 9". See manufacturer's recommendation.

TYPICAL END TREATMENTS

The strip seal shall be made continuous and shall have a minimum thickness of $\frac{1}{4}$ ". 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.

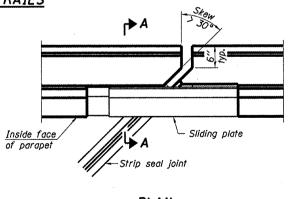
The Locking Edge Rails depicted are conceptual only, except for the minimum dimensions shown. The actual configuration of the Locking Edge Rails and matching strip seal may vary from manufacturer to manufacturer. Flanged edge rails will not be allowed. Locking Edge Rails may be spliced at slope discontinuities.

The manufacturer's recommended installation methods shall be followed. The joint opening and deck dimensions detailed on the superstructure are based on a rolled rail expansion joint. If the Contractor elects to use the welded rail expansion joint, the opening and deck dimensions shall be modified according to the dimensions detailed on this sheet. Required modifications

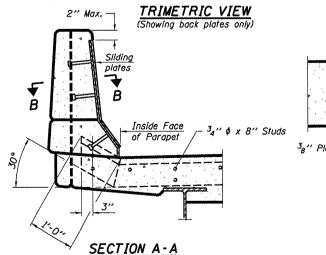
shall be made at no additional cost to the State. All steel components shall be galvanized after fabrication according to Article 520.03 of the Standard Specifications.

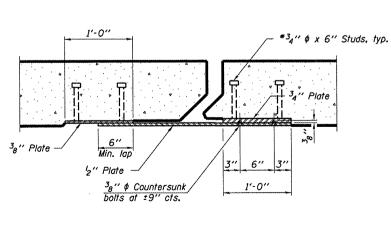
Maximum space between rail segments at stage lines shall be 316", sealed with a suitable sealant.

LOCKING EDGE RAILS



PLAN





Unit Total Preformed Joint Strip Seal Foot

BILL OF MATERIAL

SECTION B-B

EJ-SSJ REVISED PARAPET 12/8/09 RKG

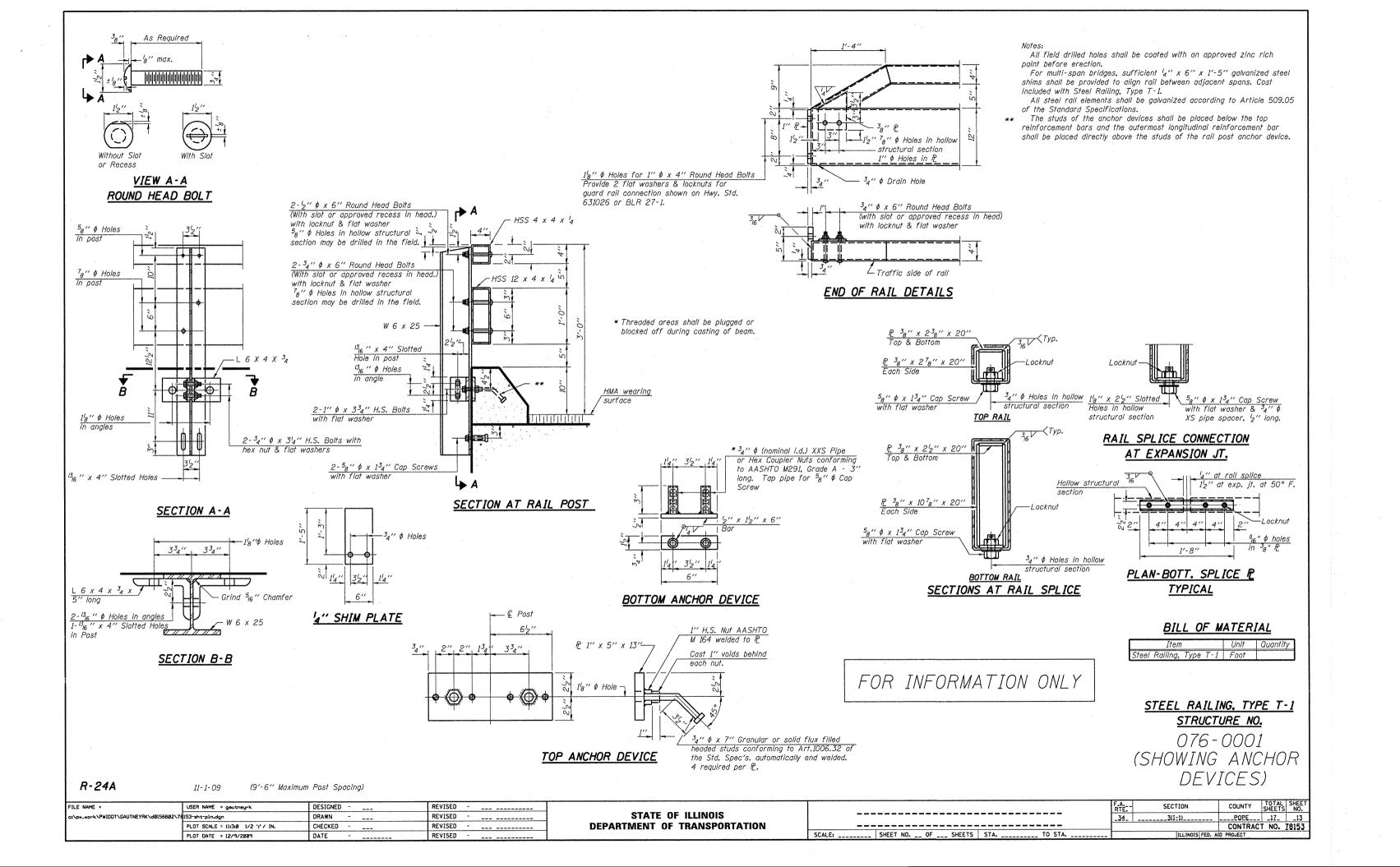
POINT BLOCK DETAILS (for skews > 30°)

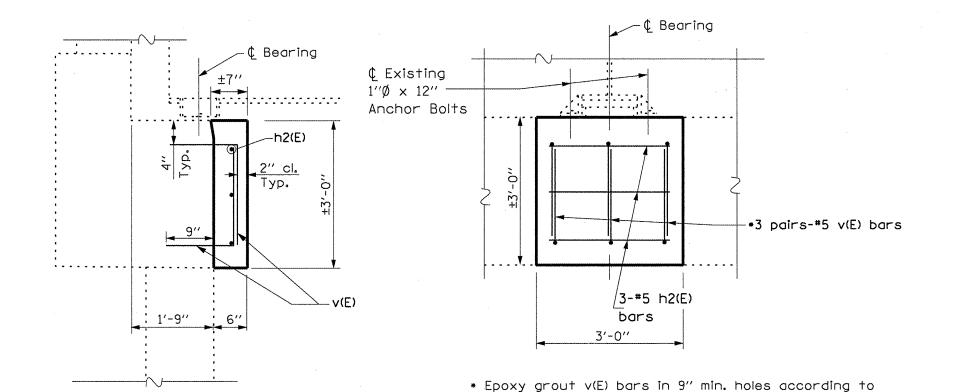
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STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION**

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						CONTRACT	NU.	78153
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PREFORMED JOINT STRIP SEAL STRUCTURE NO. 076-0001





CONCRETE REPAIR

SECTION

BILL OF MATERIAL CONCRETE REPAIR

Bar	No.	Size	Length	Shape
·				
h2(E)	3	#5	2'-8''	
v(E)	6	#5	3′-5′′	 1
Concre	ete Str	Cu. Yd.	0.2	
Reinfo Epoxy	rcemen Coatec	Pound	30	

Reinforcement bars designated (E) shall be epoxy coated.

CONCRETE REPAIR

WEST ABUTMENT

2'-4" v(E) Bars

CONCRETE STRUCTURES 3 Brg. Spaces at $\pm 10'-4\sqrt[3]{4}'' = 31'-2\frac{1}{8}''$

Article 584 of the Standard Specifications. Cost included

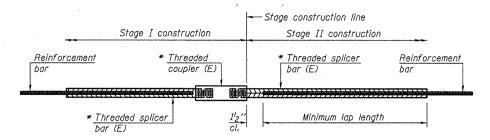
with "Reinforcement Bars, Epoxy Coated".

ELEVATION

WEST ABUTMENT ELEVATION

Dimensions Parallel to Face of Abutment

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STANDARD BAR SPLICER ASSEMBLY

	Minima	um Lap Leng	ths	
Bar size to be spliced	Table 1	Table 2	Table 3	Table 4
3, 4	1'-5''	1'-11''	2'-1"	2'-4"
5	1'-9''	2'-5"	2'-7"	2'-11''
. 6	2'-1"	2'-11''	3'-1"	3'-6"
7	2'-9''	3'-10''	4'-2"	4'-8''
8	3′-8′′	5′-1′′	5′-5′′	6'-2"
9	4'-7''	6′-5′′	6′-10′′	7′-9′′

Table 1: Black bar, 0.8 Class C

Table 2: Black bar, Top bar lap, 0.8 Class C

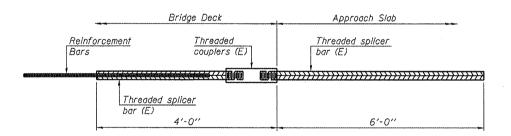
Table 3: Epoxy bar, 0.8 Class C

Table 4: Epoxy bar, Top bar lap, 0.8 Class C

Threaded splicer bar length = min. lap length + $1_2^{\prime\prime}$ + thread length

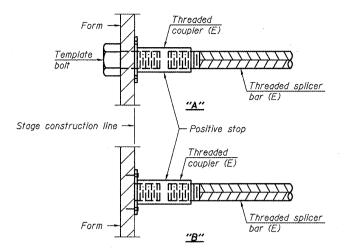
* Epoxy not required on Bar Splicer Assembly components used in conjunction with black bars.

Location	Bar size	No. assemblies required	Table for minimum lap length		



BAR SPLICER ASSEMBLY FOR #5 BAR ON INTEGRAL OR SEMI-INTEGRAL ABUTMENTS

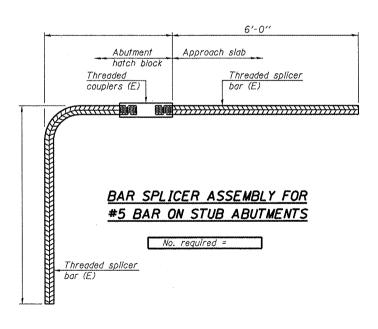
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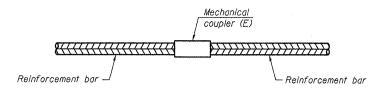


INSTALLATION AND SETTING METHODS

"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			
STAGE CONSTR. LINE	#6	18			

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 special provision for Mechanical Splicers.

See approved list of bar splicer assemblies and mechanical splicers for alternatives.

BAR SPLICER ASSEMBLY AND MECHANICAL SPLICER DETAILS STRUCTURE NO.

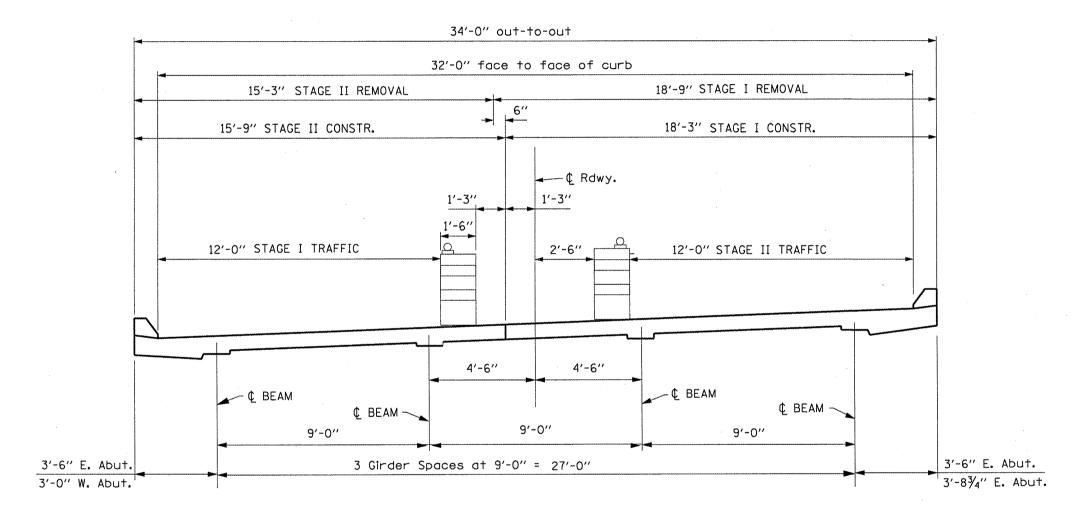
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			S.B.I. RTÉ.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.		
				34	3(I-1)	POPE	17	15	
							CONTRAC	NO.	78153
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STAGE CONSTRUCTION

(LOOKING WEST)

DIMENSIONS AT RIGHT ANGLE TO CENTERLINE OF ROADWAY

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