STATE OF ILLINOIS

DEPARTMENT OF TRANSPORTATION

**DIVISION OF HIGHWAYS** 

**PROPOSED HIGHWAY PLANS** 

**FAU ROUTE 2943: BURNHAM AVE.** 

**SECTION: 1212.8–I–1** 

**OVER STATE STREET,** 

**IHBRR, CSXRR & GRAND CALUMET RIVER BRIDGE REPAIR & RESURFACE APPROACHES** 

**STRUCTURE NO. 016-0806** 

**COOK COUNTY** 

C-91-093-08

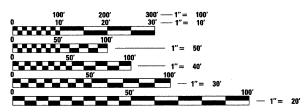
PROJECT : ESP-2943 (OIL)

IMPROVEMENT LOCATED IN THE CITY OF CALUMET CITY

FOR INDEX OF SHEETS, SEE SHEET NO. 2

IMPROVEMENT BEGINS STA. 224 + 70

2006 ADT = 13,900 VEHICLES PER DAY SPEED LIMIT = 40 MPH



ENGINEERING SCALES. REDUCED SIZED PLANS WILL NOT CONFORM TO STANDARD SCALES. IN MAKING MEASUREMENTS ON REDUCED PLANS, THE ABOVE SCALES MAY BE USED.

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

PROJECT ENGINEER: MICHELLE AQUINO (847) 705-4606 PROJECT MANAGER: LONG TRAN (847) 705-4232

LAKE MI CHI GAN **R15E R10W** 

GROSS & NET LENGTH OF PROJECT = 2482 FT = 0.47 MILE





**DEPARTMENT OF TRANSPORTATION** DIVISION OF HIGHWAYS SUBMITTED JANUARY 9 20 09 Diana M. O'Keffe
DEPUTY DIRECTOR OF HIGHWAYS, REGION ENGINEER March 13, 20 09

STATE OF ILLINOIS



Excellence through Ownership

LOCATION OF SECTION INDICATED THUS:

License # 184-000813

ILLINOIS CONTRACT NO. 60D74

FED. ROAD DIST. NO. 1 D-91-093-08

> 200 West Front Street Wheaton, II 60187

PRINTED BY THE AUTHORITY OF THE STATE OF ILLINOIS

THORNTON TOWNSHIP

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**CONTRACT NO. 60D74** 

#### INDEX OF SHEETS

DESCRIPTION

DRIVEWAY ENTRANCE SIGNING

SHEET NO.

1	COVER SHEET
2	INDEX OF SHEETS, STATE STANDARDS, GENERAL NOTES
3	SUMMARY OF QUANTITIES
4	ROADWAY PLAN
5-6	PAVEMENT MARKING PLAN
7-10	MAINTENANCE OF TRAFFIC AND STAGING PLANS
11-45	STRUCTURE DRAWINGS
46	BUTT JOINTS AND HMA TAPER
47	TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS AND DRIVEWAYS
48	RAISED REFLECTIVE PAVEMENT MARKERS (SNOW PLOW RESISTANT)
49	DISTRICT ONE TYPICAL PAVEMENT MARKINGS
50	ARTERIAL ROAD INFORMATION SIGN

#### GENERAL NOTES - ROADWAY

- 1. BEFORE STARTING ANY EXCAVATION, THE CONTRACTOR SHALL CALL "J.U.L.I.E." AT (800)892-0123 FOR FIELD LOCATIONS OF BURIED ELECTRIC, TELEPHONE AND GAS UTILITIES. (48 HOUR NOTIFICATION IS REQUIRED.)
- THE CONTRACTOR SHALL COORDINATE CONSTRUCTION ACTIVITIES WITH UTILITY COMPANIES.
- . THE CONTRACTOR WILL NOT BE ALLOWED TO SET UP A YARD OR FIELD OFFICE ON STATE PROPERTY WITHOUT WRITTEN PERMISSION FROM THE DEPARTMENT.
- 4. ALL DAMAGE TO EXISTING PAVEMENT MARKING OR RAISED REFLECTIVE PAVEMENT MARKERS OUTSIDE THE REMOVAL LINE SHOWN ON THE PLANS SHALL BE REPLACED AT THE CONTRACTORS EXPENSE.
- 5. WHEN MILLED PAVEMENT IS OPEN TO TRAFFIC THE MAXIMUM GRADE DIFFERENTIAL BETWEEN PASSES OF THE MILLING MACHINE SHALL NOT EXCEED 1 1/2 INCHES WHERE THE SPEED LIMIT IS 45 MPH OR LESS AND 1 INCH WHERE THE SPEED LIMIT IS GREATER THAN 45 MPH. WITH WRITTEN APPROVAL FROM THE ENGINEER, A MAXIMIM GRADE DIFFERENTIAL OF 3 INCHES MAY BE ALLOWED IF THE EDGE OF THE MILLING IS SLOPED A MINIMUM 1:3 (V:H).
- 6. BUTT JOINTS WILL BE INSTALLED AT THE ENDS OF ALL RESURFACING (WHERE RESURFACING MEETS EXISTING PAVEMENT). IN ACCORDANCE WITH "BUTT JOINT AND HOT-MIX ASPHALT TAPER DETAILS" SHEET INCLUDED IN THE PLANS, UNLESS OTHERWISE SPECIFIED.
- 7. THE CONTRACTOR SHALL CONTACT THE DISTRICT ONE TRAFFIC CONTROL SUPERVISOR AT (847) 705-4470 A MINIMUM OF 72 HOURS IN ADVANCE OF BEGINNING WORK.
- 8. WHEN ARTIFICIAL LIGHTING IS UTILIZED IN NIGHT OPERATIONS, THE CONTRACTOR SHALL EXERCISE THE UTMOST PRECAUTIONS IN PREVENTING ADVERSE VISIBILITY TO THE MOTORING PUBLIC AND ADJOINING RESIDENTIAL AREA.
- 9. BEFORE BEGINNING ANY WORK, THE CONTRACTOR SHALL RETAIN AND RECORD (FOR FUTURE REFERENCES), ALL EXISTING PAVEMENT MARKING LINES AND RAISED REFLECTIVE PAVEMENT MARKERS IN ORDER THAT THESE LOCATIONS CAN BE RE-ESTABLISHED FOR STRIPING. EXACT LOCATIONS OF ALL STRIPING SHALL BE AS DIRECTED BY THE ENGINEER.
- 10. THE ENGINEER SHALL CONTACT PATRICE HARRIS TRAFFIC FIELD ENGINEER (OR TECHNICIAN), AT (708) 597-9800 A MINIMUM OF TWO WEEKS PRIOR TO PLACEMENT OF PERMANENT PAVEMENT MARKINGS.
- 11. THE "ADVANCE WARNING SIGN DETAIL FOR ARTERIAL TRAFFIC" LOCATED IN THE SPECIAL PROVISIONS FOR "TEMPORARY INFORMATION SIGNING FOR LANE CLOSURES" IS APPLICABLE ONLY TO ARTERIAL ROADS.
- 12. DO NOT SCALE PLANS FOR CONSTRUCTION DIMENSIONS.
- 13. THESE PLANS HAVE BEEN PREPARED FROM NOTES RECEIVED FROM BRIDGE INSPECTORS.
- 14. PAVEMENT MARKING TAPE, TYPE III SHALL BE USED FOR SHORT TERM PAVEMENT MARKINGS ON ALL FINAL SURFACES. THE COST OF THE PAVEMENT MARKING TAPE, TYPE III AND ITS REMOVAL SHALL BE INCLUDED IN THE COST OF SHORT TERM PAVEMENT MARKING.
- 15. SAW CUTTING OF PAVEMENTS, SHOULDERS, ETC., SHALL BE TO FULL DEPTH AND SHALL RESULT IN A CLEAN, STRAIGHT EDGE ON THE PORTION REMAINING. THE COST OF SAW CUTTING REMOVAL ITEMS SHALL BE INCLUDED IN THE UNIT PRICES OF THESE ITEMS.

#### GENERAL NOTES - TRAFFIC CONTROL & PROTECTION

- STAGING PROCEDURES PRESENTED ARE THE SUGGESTED SEQUENCE OF OPERATIONS.
   AT HIS OPTION, THE CONTRACTOR MAY SUBMIT AN ALTERNATIVE STAGING PROPOSAL
   TO THE ENGINEER FOR HIS APPROVAL.
- 2. TRAFFIC CONDITIONS, ACCIDENTS AND OTHER UNFORESEEN EMERGENCY CONDITIONS MAY REQUIRE THE ENGINEER TO RESTRICT, MODIFY OR REMOVE LANE CLOSURES OF CHANNELIZATION SHOWN IN THE PLANS. THE CONTRACTOR SHALL MAKE THE NECESSARY ADJUSTMENTS AS DIRECTED BY THE ENGINEER WITHOUT DELAY. THE CONTRATOR SHALL RESPONSE TO ANY REQUEST MADE BY THE ENGINEER FOR CORRECTION WITHIN TWO HOURS FROM THE TIME OF NOTIFICATION.
- 3. ALL TEMPORARY PAVEMENT MARKINGS PROPOSED WITHIN THE WORK AREA SHALL BE COMPLETED PRIOR TO THE CONSTRUCTION PHASE CHANGE.
- 4. BARRICADES: THE CONTRACTOR SHALL PROVIDE AND INSTALL TWO (2) WEIGHTED SAND BAGS ON EACH TYPE I OR TYPE II BARRICADE USED ONE (1) WEIGHTED SAND BAG ACROSS EACH BOTTOM RAIL.

#### STATE STANDARDS

STANDARD NO.	DESCRIPTION
000001 - 05	STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS
701 426-03	LANE CLOSURE, MULTILANE, INTERMITTENT OR MOVING OPERATIONS FOR SPEEDS GREATER THAN OR EQUAL TO 45 MPH
701 601 - <u>@3</u>	URBAN LANE CLOSURE, MULTILANE, 1W OR 2W WITH NONTRAVERSABLE MEDIAN
701801-64	LANE CLOSURE MULTILANE 1W OR 2W CROSSWALK OR SIDEWALK CLOSURE
701 901 - 61	TRAFFIC CONTROL DEVICES
780001-02	TYPICAL PAVEMENT MARKINGS
781 001 - 03	TYPICAL APPLICATIONS RAISED PAVEMENT MARKERS

	SUMMARY OF QUANTITIES		Ursan	CONSTRUCTION TYPE CODE BRIDGE SN 016-080
CODE NO.	ITEM DESCRIPTION	UNIT	TOTAL	SFTY-2A QUANTITY
	BITUMINOUS MATERIALS (PRIME COAT)	GALLON	9	9
	HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT	SQ YD	24	24
	NOT-MIX ASPHALT SURFACE COURSE, MIX "D", N70	TON	10	10
	OT-MIX ASPHALT SURFACE REMOVAL, 1 1/2"	SQ YD	108	108
	OT-MIX ASPHALT SURFACE REMOVAL (DECK)	SQ YD	14, 500	14,500
	CONCRETE REMOVAL	CU YD		
	PROTECTIVE SHIELD	SQ YD	717. 3	717.3
	, ·		2,480	2, 480
	ONCRETE SUPERSTRUCTURE	CU YD	763. 2	763. 2
	RIDGE DECK GROOVING	SQ YD	13, 652	13,652
	ROTECTIVE COAT	SQ YD	2,126	2, 126
	URNISHING AND ERECTING STRUCTURAL STEEL	POUND	22,920	22, 920
	ACK AND REMOVE EXISTING BEARINGS	EACH	164	164
	REINFORCEMENT BARS, EPOXY COATED	POUND	110,140	110,140
	AR SPLICERS	EACH	336	336
52000110 P	REFORMED JOINT STRIP SEAL	FOOT	389	389
52100010 E	LASTOMERIC BEARING ASSEMBLY, TYPE I	EACH	42	42
52100020 E	LASTOMERIC BEARING ASSEMBLY, TYPE II	EACH	122	122
52100530 A	NCHOR BOLTS, 1 1/4"	EACH	328	328
67000400 E	NGINEER'S FIELD OFFICE, TYPE A	CALMO	4	4
67100100 M	OBILIZATION	L SUM	1	1
70101805 T	RAFFIC CONTROL AND PROTECTION, (SPECIAL)	EACH	1	1
70103815 T	RAFFIC CONTROL SURVEILLANCE	CAL DA	30	30
70300100 S	HORT-TERM PAVEMENT MARKING	FOOT	1,080	1,080
70301000 W	ORK ZONE PAVEMENT MARKING REMOVAL	SQ FT	2, 389	2, 389
78008210 P	OLYUREA PAVEMENT MARKING TYPE I - LINE 4"	FOOT	10,741	10,741
78100100 R	AISED REFLECTIVE PAVEMENT MARKER	EACH	24	24
78100105 R	AISED REFLECTIVE PAVEMENT MARKER (BRIDGE)	EACH	124	124
78300100 P	AVEMENT MARKING REMOVAL	SQ FT	79	79
78300200 R	AISED REFLECTIVE PAVEMENT MARKER REMOVAL	EACH	24	24
X0301424 5	SILICONE JOINT SEALER	FOOT	125	125
X0321468 P	LUG EXISTING DECK DRAINS	EACH	26	26
X0322185 B	RIDGE DECK LATEX CONCRETE OVERLAY, 2 1/4 INCHES	SQ YD	14,500	14,500
X0322256 T	EMPORARY INFORMATION SIGNING	SQ FT	77	77
X0325115 A	DJUSTING DRAINAGE SCUPPERS, TYPE B	EACH	27	27
X0325305 S	INCHES, STRUCTURAL REPAIR OF CONCRETE (DEPTH EQUAL TO OR LESS THAN 5 )	SQ FT	2,5/3	2,513
	ET REFLECTIVE TEMPORARY TAPE, TYPE III, 4 INCH	FOOT	10, 741	10, 741
Z0006202 B	RAINAGE SCUPPERS, DS-12 RIDGE DECK HYDRO-SCARIFICATION 3/4"	EACH SQ YD	14,500	14,500
XO335303 57 Z0016002 D	TRUCTURAL REPAIR OF CONCRETE (DEPTH GREATER THAN 5") ECK SLAB REPAIR (FULL DEPTH, TYPE II)	SQ FT SQ YD	30	7 <b>6</b> 30
	ODULAR EXPANSION JOINT 6"	FOOT	229	229
<b>Z0076600 7</b> Z0034806 M	TRAINEE 5  IODULAR EXPANSION JOINT-SWIVEL 6"	HOUR FOOT	<b>1500</b> 79	<b>1500</b> 79
	INDUCAR EXPANSION JUINI-SWIVEL 6 EMPORARY SHORING AND CRIBBING EM	EACH	22	22.

\* SPECIALTY ITEM • YORO

rjngroup

200 West Front Street Wheaton, II 60187

DESIGNED -REVISED DRAWN REVISED CHECKED REVISED - 1-14-2009 DATE REVISED

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BURNHAM AVE. OVER STATE ST. STRUCTURE NO. 016-0806 SHEET NO. 3 OF 51 SHEETS STA.

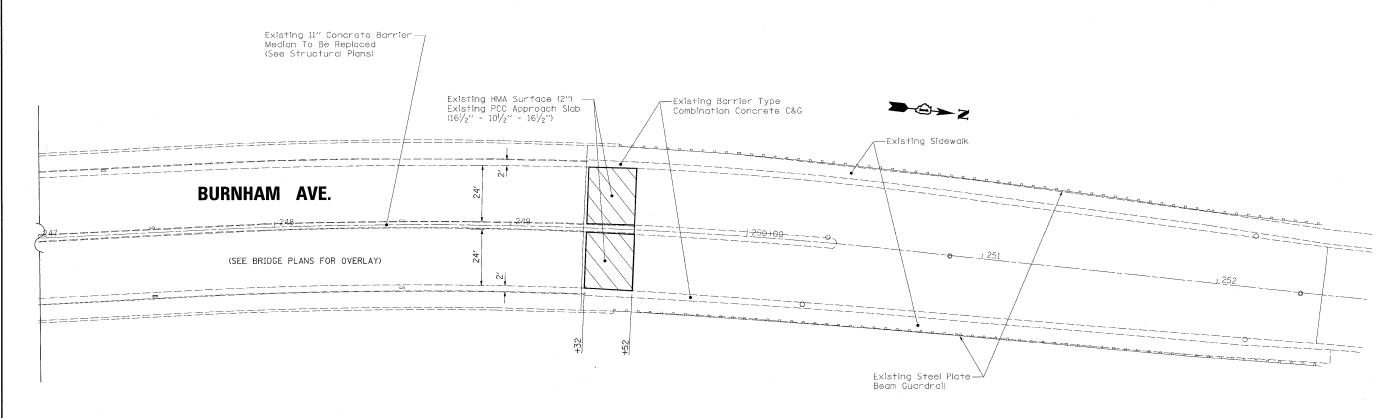
SUMMARY OF QUANTITIES

COUNTY TOTAL SHEE NO. F.A.U. RTE. 2943 SECTION 1212.8-I-1 CONTRACT NO. 60D74

FED. ROAD DIST. NO. 1 | ILLINOIS | FED. AID PROJECT

#### TYPICAL SECTION - APPROACH SLAB

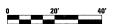
STA. 249+32 TO 249+52



**MIXTURE REQUIREMENTS MIXTURE USES** AC TYPE VOIDS HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N70 (IL 9.5mm) PG 64-22 4% © 70 GYR.

NOTE: THE APPROACH SLAB ON THE SOUTH END OF THE BRIDGE WILL NOT BE OVERLAID

PROP. HOT-MIX ASPHALT SURFACE REMOVAL, 11/2" PROP. HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N70, 11/2"



NOTE: THE UNIT WEIGHT USED TO CALCULATE ALL HOT-MIX ASPHALT SURFACE MIXTURES IS 112 LBS/SQ YD/IN.

<b>rjn</b> group	
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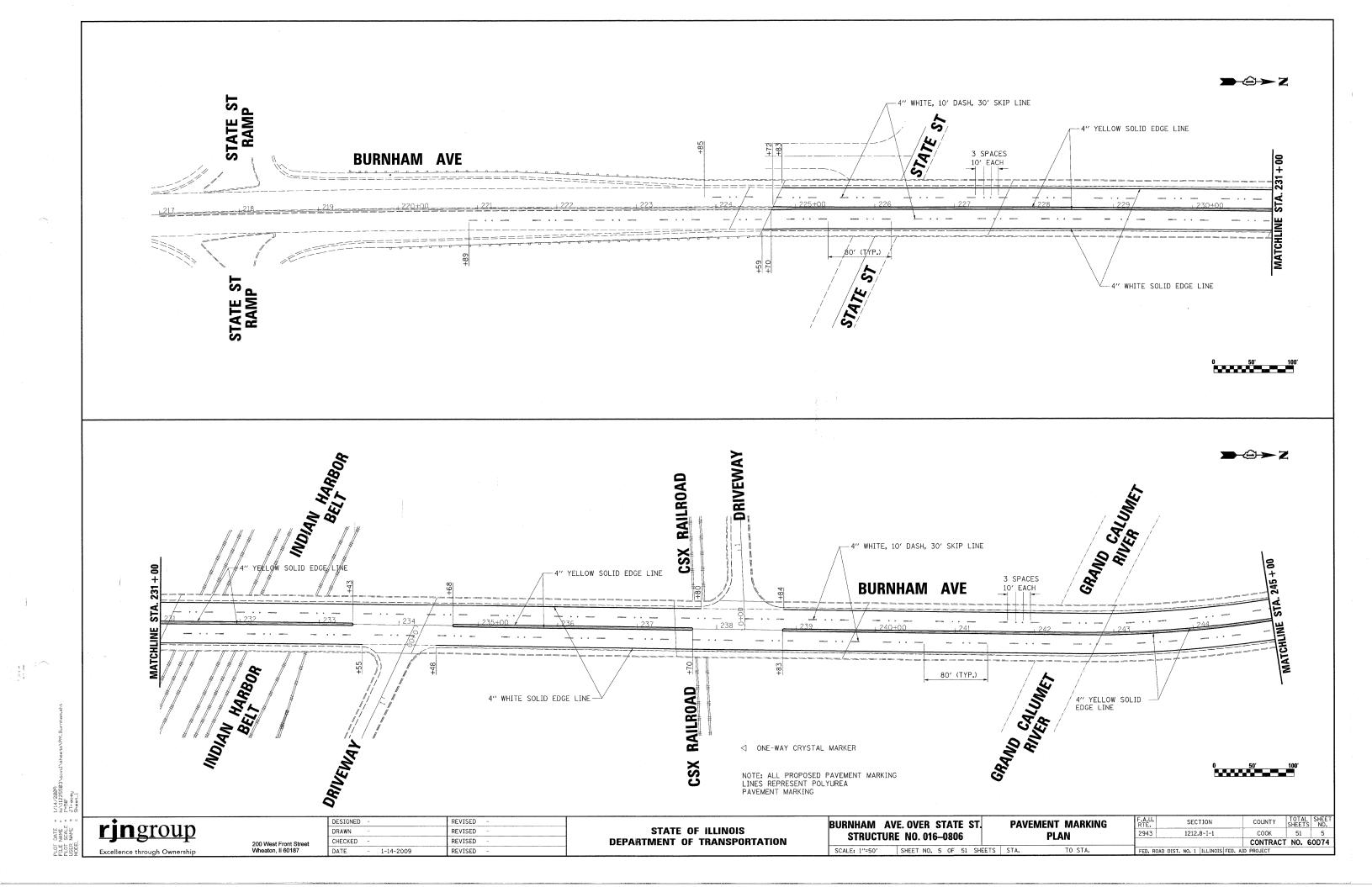
Excellence through Ownership

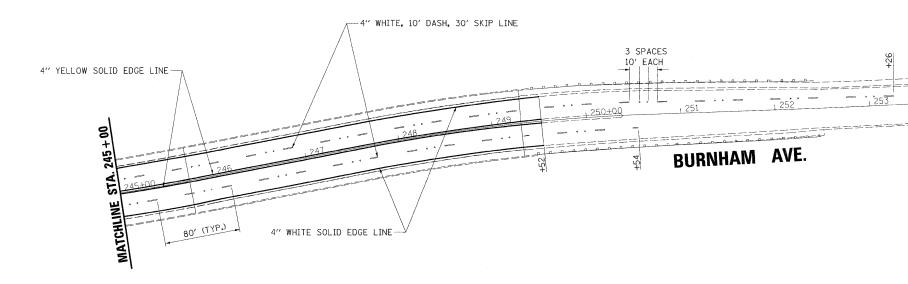
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STATE	OF	ILLINOIS
DEPARTMENT (	OF '	TRANSPORTATION

BURNHAM AV	E. OVER STATE ST.		ROADWAY	PLAN	F.A.U. RTE.	SECTION		COUNTY	TOTAL SHEETS	SHEET NO.
	E NO. 016-0806				2943	1212.8-I-1		соок	51	4
31110010111	140.010-0000							CONTRACT	NO. 6	SOD74
SCALE: 1"=20"	SHEET NO. 4 OF 51 SHE	ETS STA.	TO	STA.	FED. RO	OAD DIST. NO. 1 ILLINOIS	FED. AI	D PROJECT		





ONE-WAY CRYSTAL MARKER

NOTE: ALL PROPOSED PAVEMENT MARKING LINES REPRESENT POLYUREA PAVEMENT MARKING

0 50′ 100′

 COUNTY
 TOTAL SHEETS NO.

 COOK
 51
 6

 CONTRACT
 NO.
 60D74



	DESIGNED -	REVISED -
	DRAWN	REVISED -
200 West Front Street	CHECKED -	REVISED -
Wheaton, II 60187	DATE - 1-14-2009	REVISED -

STATE 0	F ILLINOIS
<b>DEPARTMENT OF</b>	TRANSPORTATION

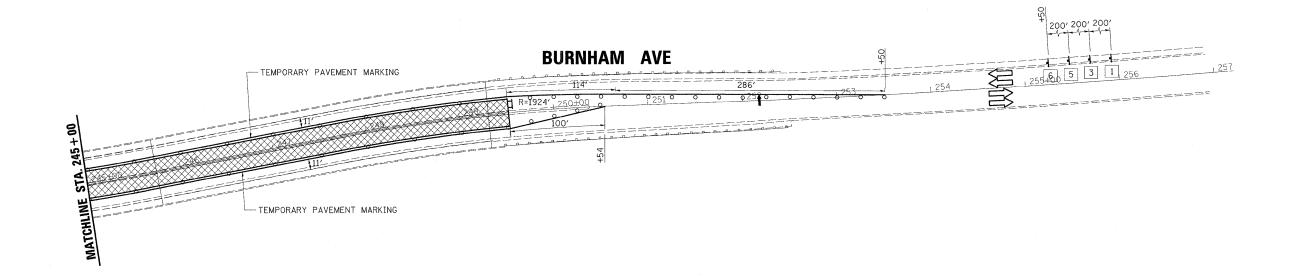
 BURNHAM AV	E. OVER STATE ST.	PAVEMENT MARKING	F.A.U. RTE.	SECTION	I
STRUCTURI	E NO. 016–0806	PLAN	2943	1212.8-I-1	Ŧ
SCALE: 1"=50"	SHEET NO. 6 OF 51 SHEE	ETS STA. TO STA.	FED. ROA	AD DIST. NO. 1 ILLINOIS FED.	AIE

TRAFFIC CONTROL AND PROTECTION AS PRESENTED
IN THESE PLANS AND STANDARDS 701601 & 701801
SHALL BE PAID FOR AS "TRAFFIC CONTROL AND
PROTECTION (SPECIAL)" EXCEPT TEMPORARY PAVEMENT
MARKING WILL BE PAID FOR PER FOOT OF "WET
REFLECTIVE TEMPORARY TAPE, TYPE III, 4""  $\rightarrow \bigcirc \rightarrow Z$ STATE ST RAMP TEMPORARY PAVEMENT MARKING **BURNHAM AVE** MATCHLINE 1 3 5 TEMPORARY PAVEMENT MARKING 200' 200' **LEGEND** WORK AREA 7 SIGN ONLY NOTES: R3-5R W20-1(0)-48 0 TYPE II BARRICADES © 50' C-C ON TANGENT © 25' C-C ON TAPERS (TYP.) PAVEMENT MARKING AND RPM REMOVAL STA. 223+85 TO 253+26 (SOUTHBOUND) AND STA. 220+89 TO 250+54 (NORTHBOUND) 2 TYPE III BARRICADE R3-2 \* WORKER SIGN SHALL BE REMOVED OR COVERED WHEN WORKERS ARE NOT PRESENT ARROW BOARD SEE TYPICAL CROSS-SECTIONS WITH STAGING IN STRUCTURE PLANS W-20-5R(0)-48 W4-2R(0)-48 W-21-I110-48 W-21-1a(0)-48 0 FLASHING WARNING BEACON GRAND CALUNET RAILROAD CSX TEMPORARY PAVEMENT MARKING **BURNHAM AVE** MATCHLINE HARBOR GRAND CALUMET TEMPORARY PAVEMENT MARKING CSX RAILROAD F.A.U. RTE. 2943 DESIGNED REVISED SECTION BURNHAM AVE. OVER STATE ST. **MAINTENANCE OF TRAFFIC** rjngroup STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION DRAWN REVISED COOK 1212.8-I-1 STAGE 1 **STRUCTURE NO. 016-0806** CHECKED REVISED CONTRACT NO. 60D74 200 West Front Street Wheaton, II 60187

DATE

1-14-2009

SCALE: 1"=50" SHEET NO. 7 OF 51 SHEETS STA.



NOTES:

PAVEMENT MARKING AND RPM REMOVAL STA. 223+85 TO 253+26 (SOUTHBOUND) AND STA. 220+89 TO 250+54 (NORTHBOUND)

SEE TYPICAL CROSS-SECTIONS WITH STAGING IN STRUCTURE PLANS

LEGEND

WORK AREA

SIGN

TYPE II BARRICADES @ 50' C-C ON TANGENT @ 25' C-C ON TAPERS (TYP.)

TYPE III BARRICADE

ARROW BOARD

FLASHING WARNING BEACON



W-20-5R(0)-48

W4-2R(0)-48



W-21-I110-48









\* WORKER SIGN SHALL BE REMOVED OR COVERED WHEN WORKERS ARE NOT PRESENT

TRAFFIC CONTROL AND PROTECTION AS PRESENTED IN THESE PLANS AND STANDARDS 701601 & 701801 SHALL BE PAID FOR AS "TRAFFIC CONTROL AND PROTECTION (SPECIAL)" EXCEPT TEMPORARY PAVEMENT MARKING WILL BE PAID FOR PER FOOT OF "WET REFLECTIVE TEMPORARY TAPE, TYPE III, 4""

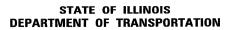
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200 West Front Street Wheaton, II 60187

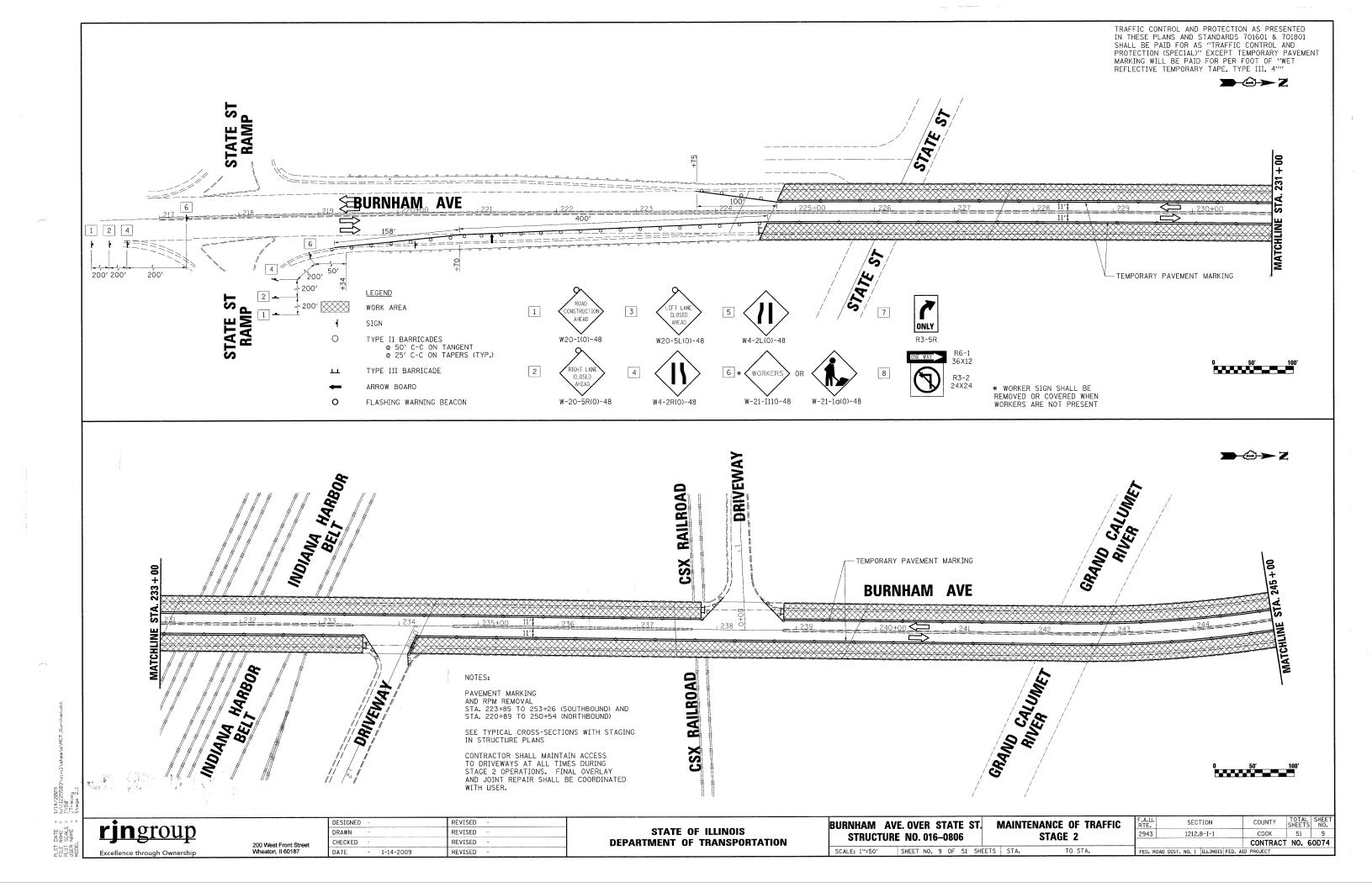
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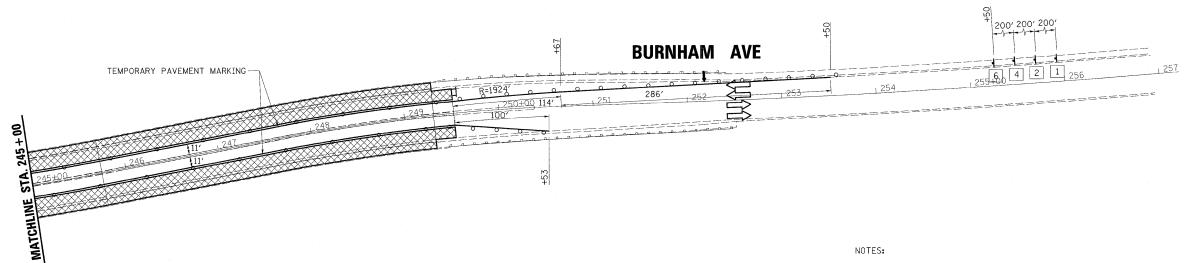
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IIDNIHAM AV	E. OVER STATE	CT B	MAINTE	NANCE OF TRAFFIC	F.A.U. RTE.	SECTION	COUNTY
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3111001011	L 140. 010-0000			OIAGE I			CONTRACT
SCALE: 1"=50'	SHEET NO. 8 OF 51	SHEETS	STA.	TO STA.	FED. RO	AD DIST. NO. 1 ILLINOIS FED. A	ID PROJECT



TRAFFIC CONTROL AND PROTECTION AS PRESENTED
IN THESE PLANS AND STANDARDS 701601 & 701801
SHALL BE PAID FOR AS "TRAFFIC CONTROL AND
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MARKING WILL BE PAID FOR PER FOOT OF "WET
REFLECTIVE TEMPORARY TAPE, TYPE III, 4""





PAVEMENT MARKING AND RPM REMOVAL STA. 223+85 TO 253+26 (SOUTHBOUND) AND STA. 220+89 TO 250+54 (NORTHBOUND)

SEE TYPICAL CROSS-SECTIONS WITH STAGING IN STRUCTURE PLANS

CONTRACTOR SHALL MAINTAIN ACCESS TO DRIVEWAYS AT ALL TIMES DURING STAGE 2 OPERATIONS. FINAL OVERLAY AND JOINT REPAIR SHALL BE COORDINATED WITH USER.

WORK AREA SIGN TYPE II BARRICADES

© 50' C-C ON TANGENT

© 25' C-C ON TAPERS (TYP.) TYPE III BARRICADE ARROW BOARD FLASHING WARNING BEACON

LEGEND

W20-1(0)-48

W-20-5R(0)-48

2



W4-2R(0)-48



W-21-1a(0)-48

WORKER

W-21-I110-48







\* WORKER SIGN SHALL BE REMOVED OR COVERED WHEN WORKERS ARE NOT PRESENT

COOK

COUNTY TOTAL SHEE SHEETS NO.

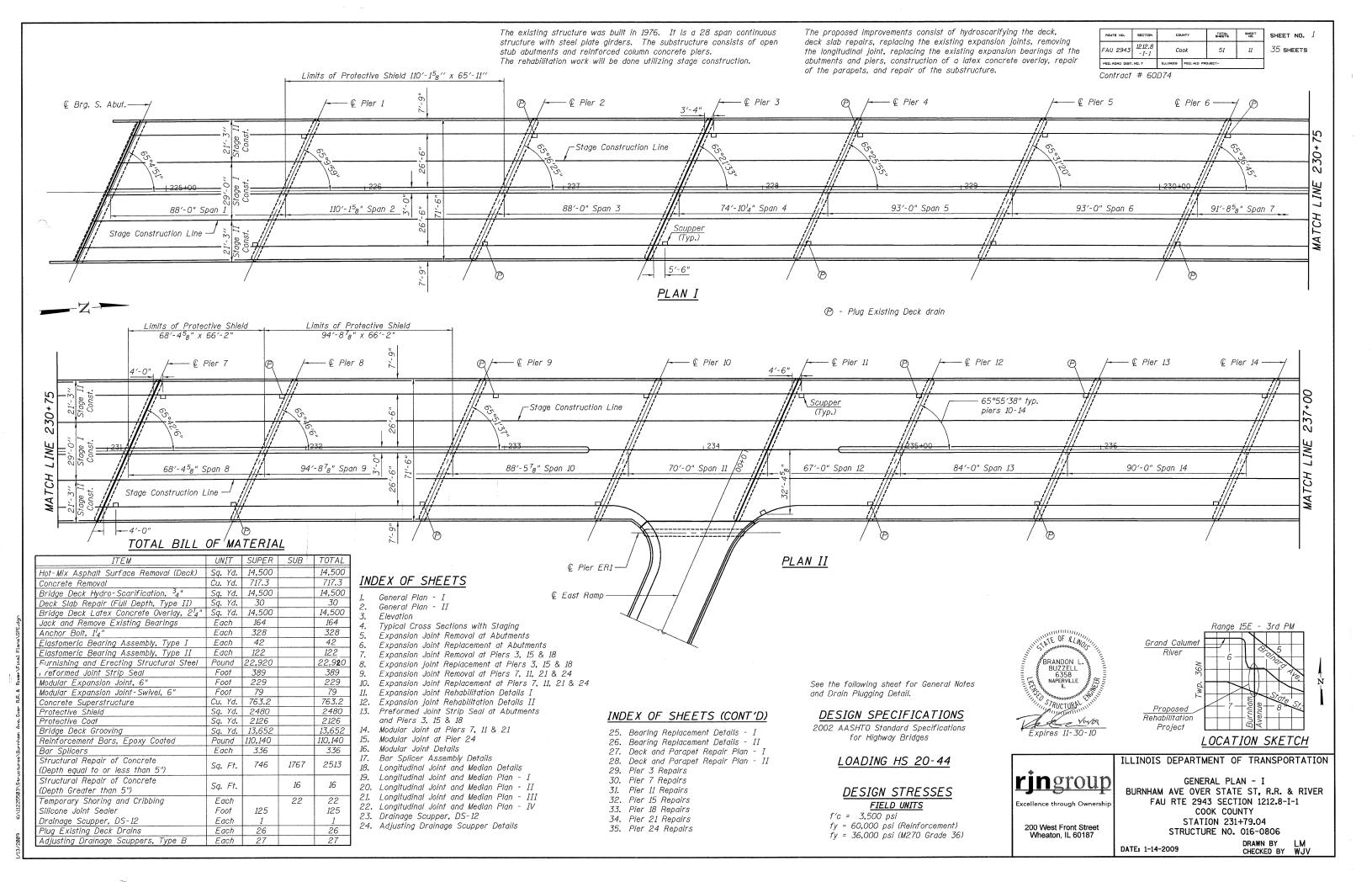
CONTRACT NO. 60D74

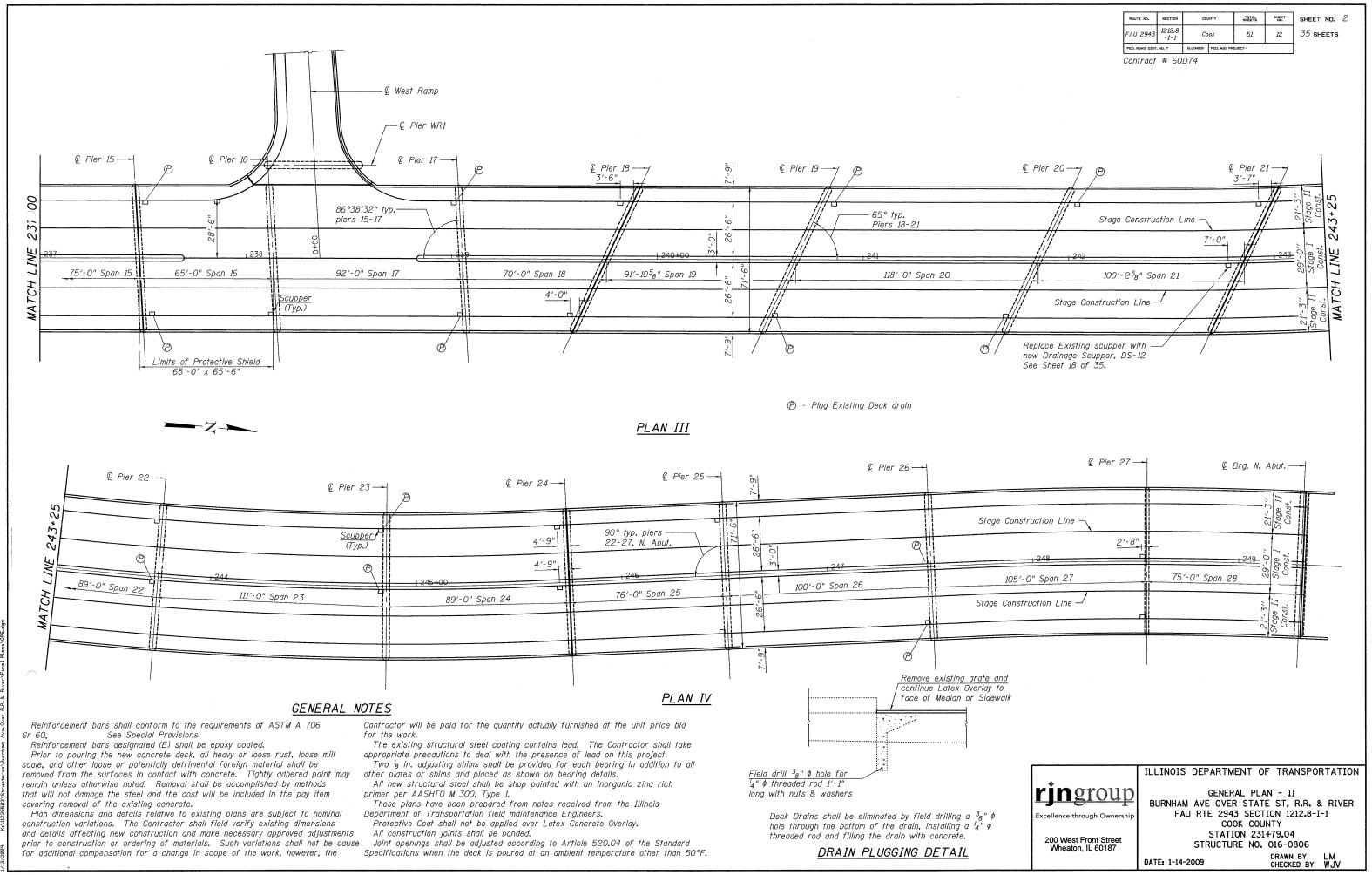
**rjn**group

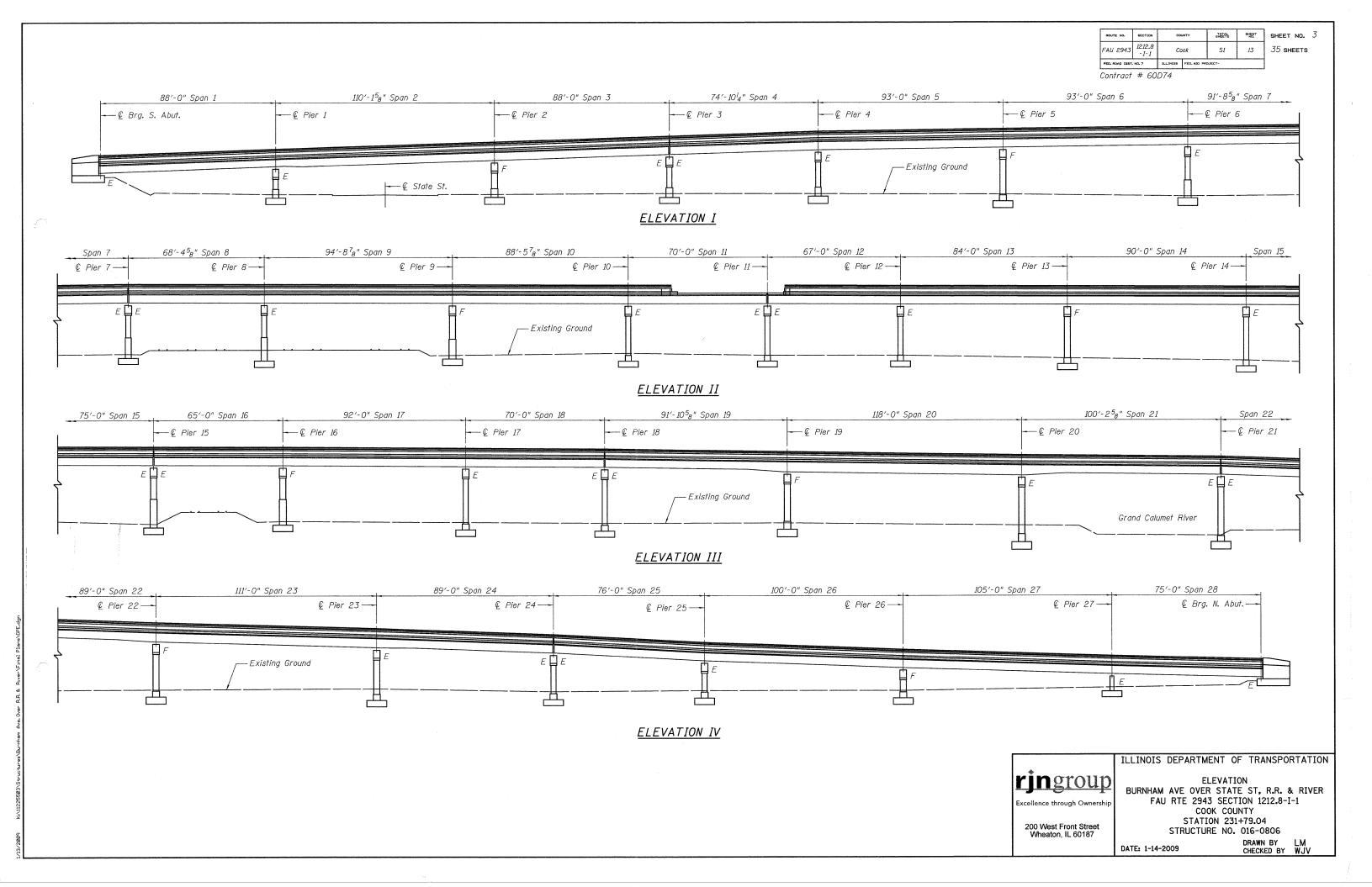
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heaton, Il 60187	DATE	-	1-14-2009	REVISED	-

STATE	E OF	ILLINOIS
DEPARTMENT	OF	TRANSPORTATION

URNHAM AV	E. OVER STATE ST.	MAINTENANCE OF	TRAFFIC R	A.U. TE.	SECTION
CTRIICTIIR	E NO. 016-0806	STAGE 2	29	943	1212.8-I-1
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SCALE: 1//=50/	SHEET NO 10 OF 51 SH	ETS STA TO S	STA CO	ED BOAD DIST	NO 1 THE THOTS EED AT



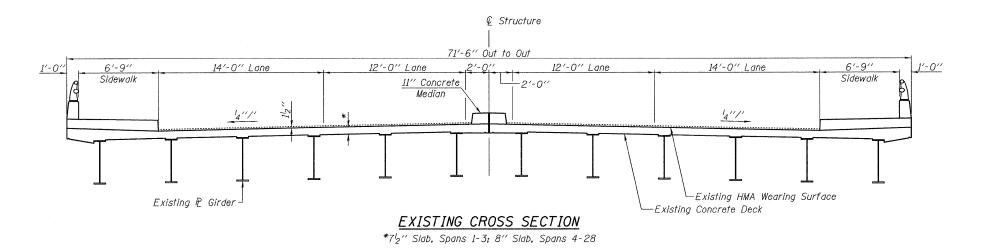


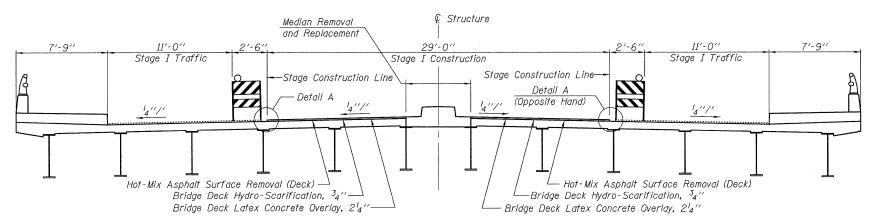


SHEET NO. 4

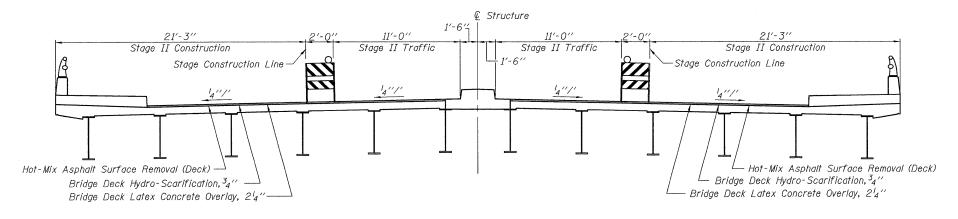
35 **SHEETS** 

Contract # 60D74

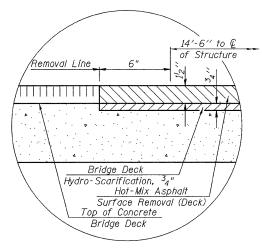




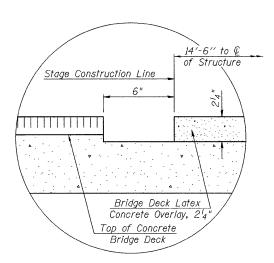
#### STAGE I CROSS SECTION



STAGE II CROSS SECTION



DETAIL A
(Showing Removal)



<u>DETAIL A</u> (Showing Proposed)



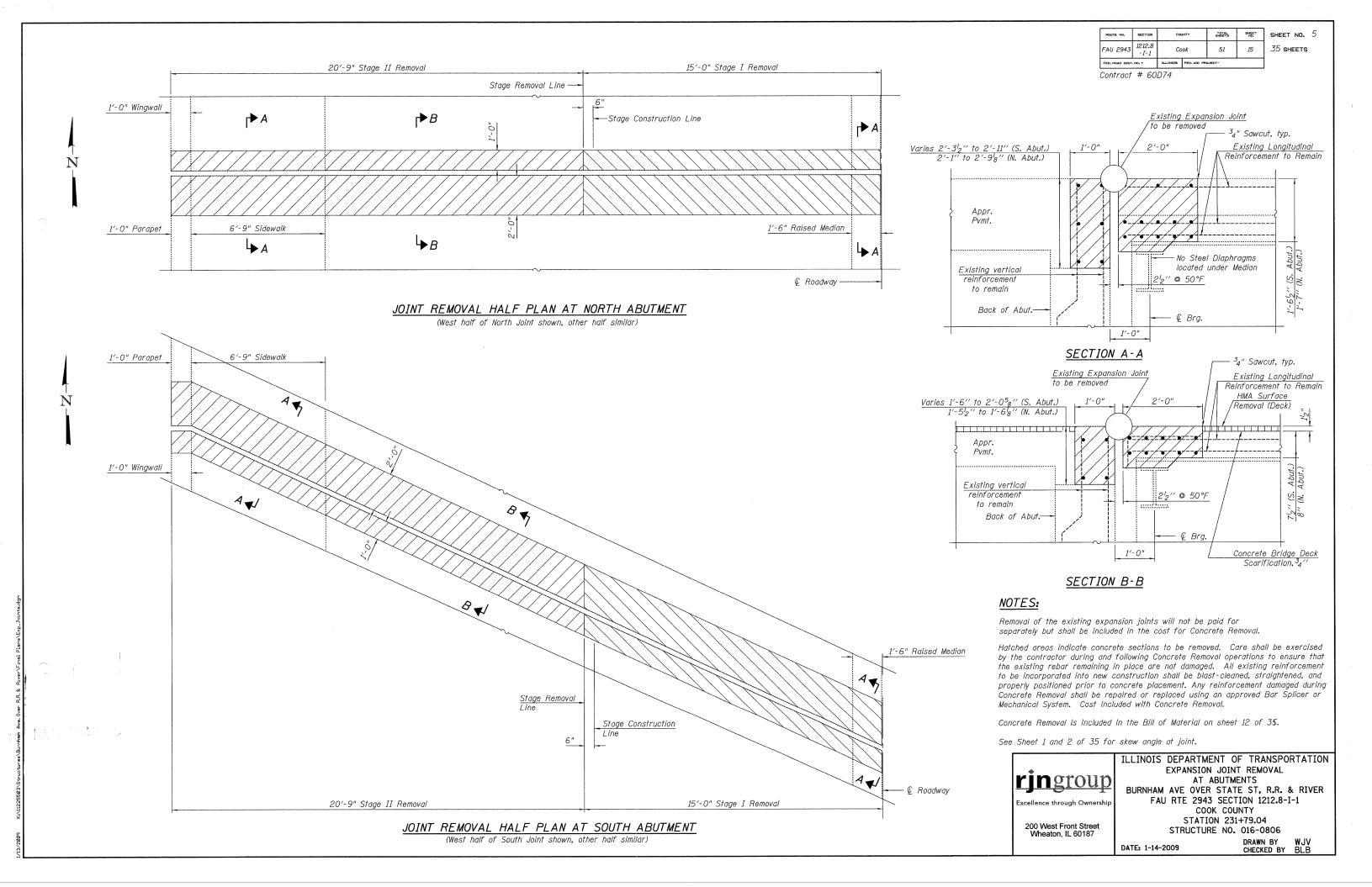
Excellence through Ownership

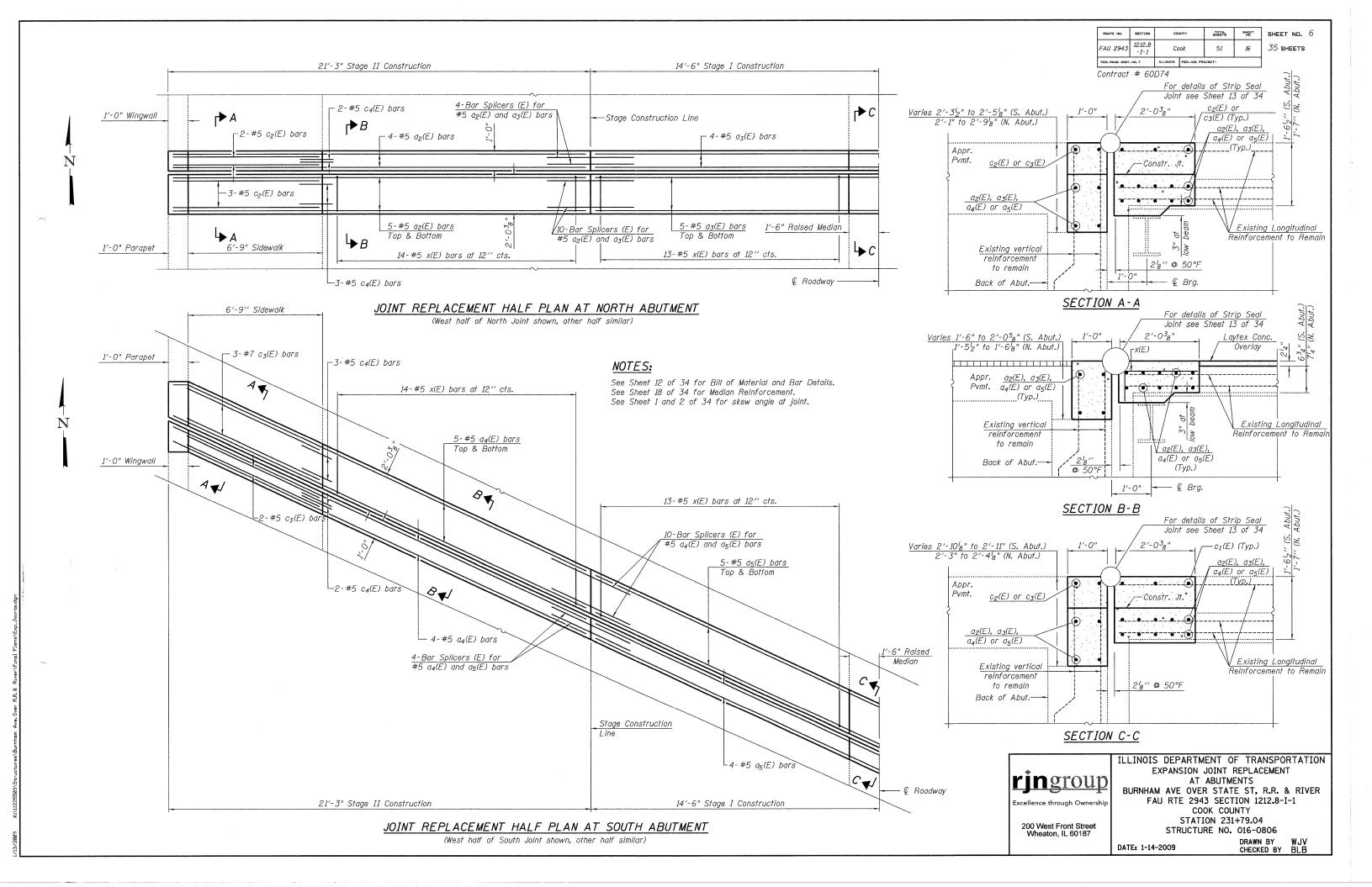
200 West Front Street Wheaton, IL 60187 TYPICAL CROSS SECTIONS WITH STAGING BURNHAM AVE OVER STATE ST, R.R. & RIVER FAU RTE 2943 SECTION 1212.8-I-1 COOK COUNTY

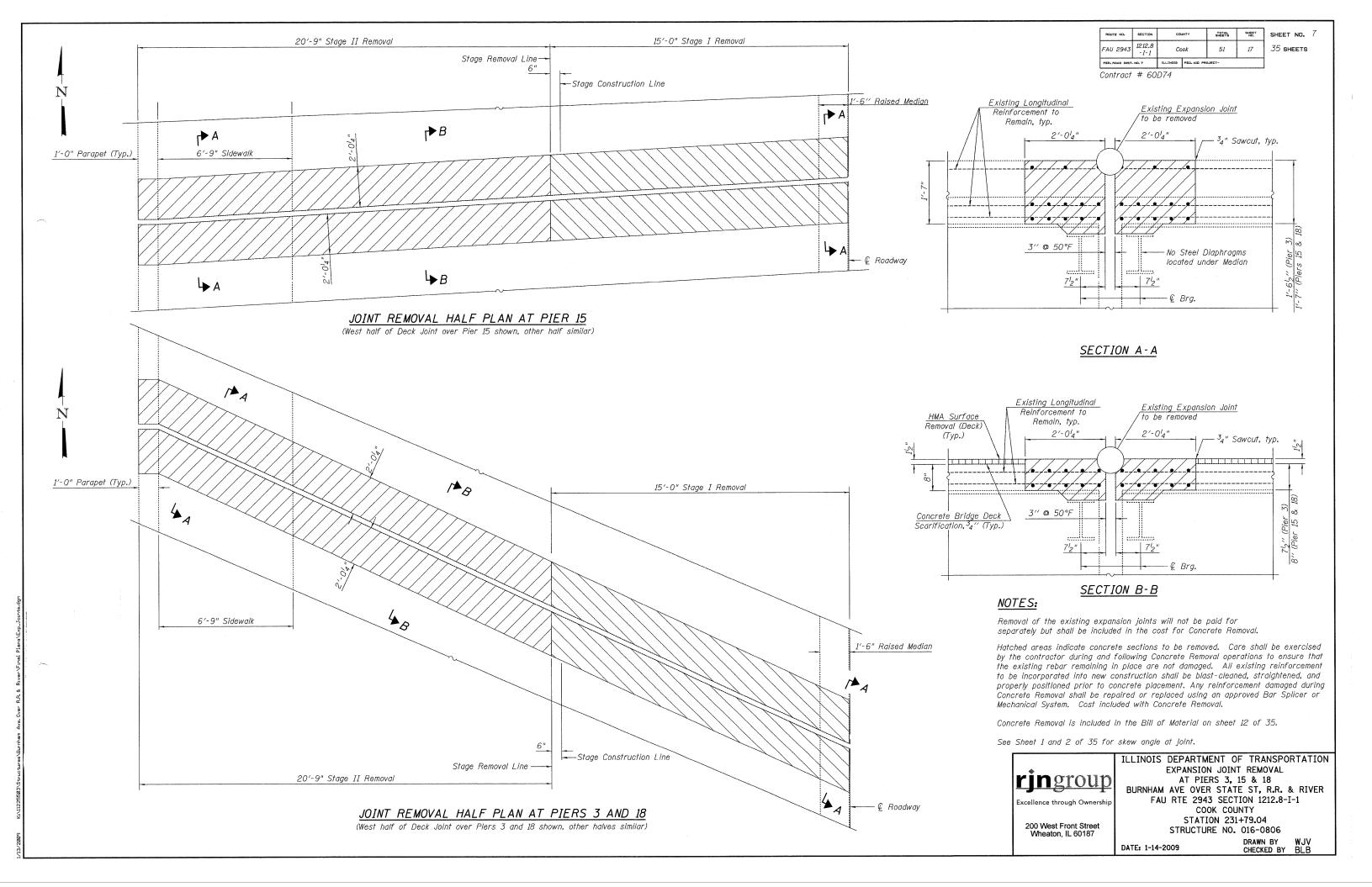
ILLINOIS DEPARTMENT OF TRANSPORTATION

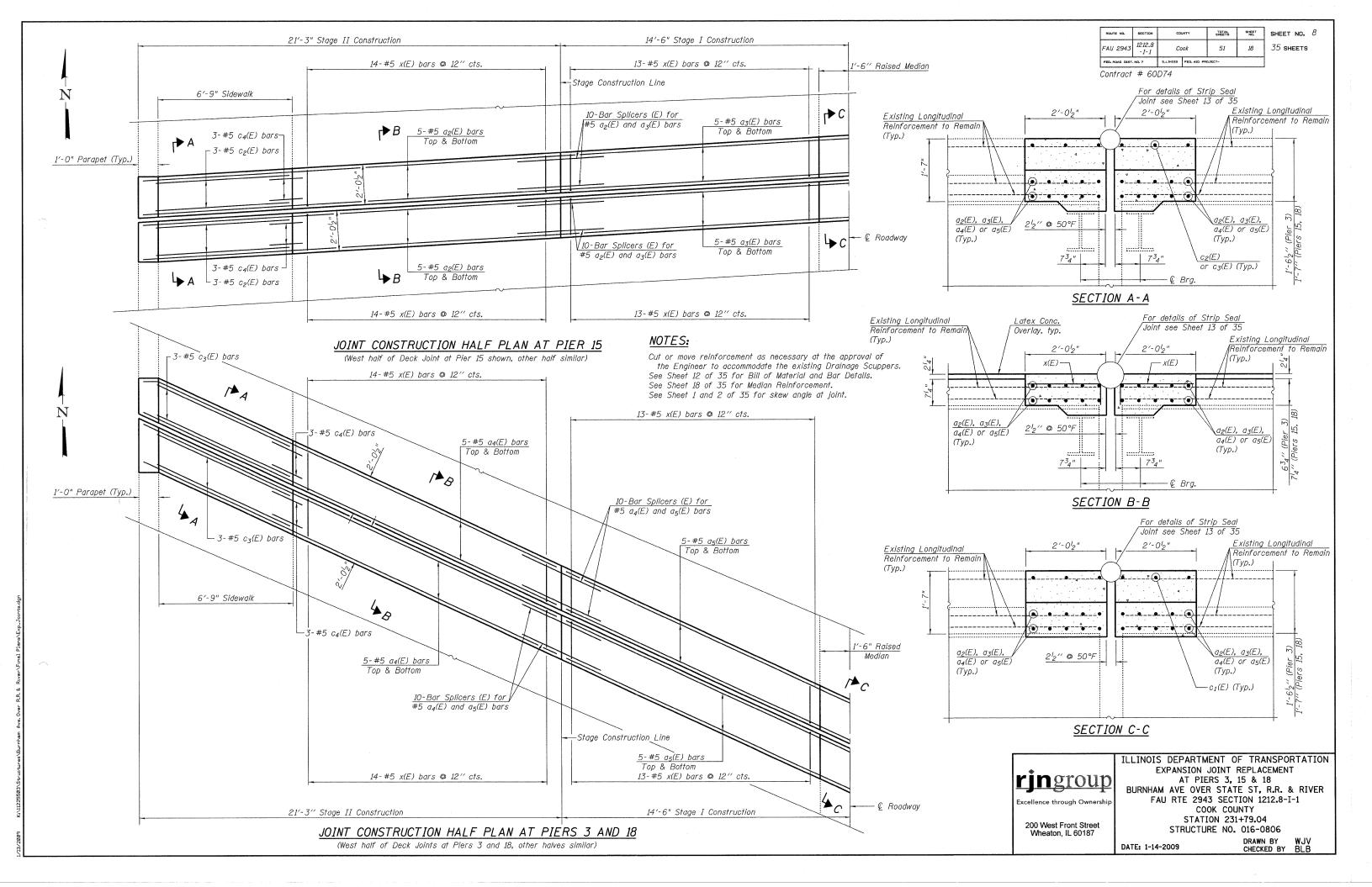
STATION 231+79.04 STRUCTURE NO. 016-0806

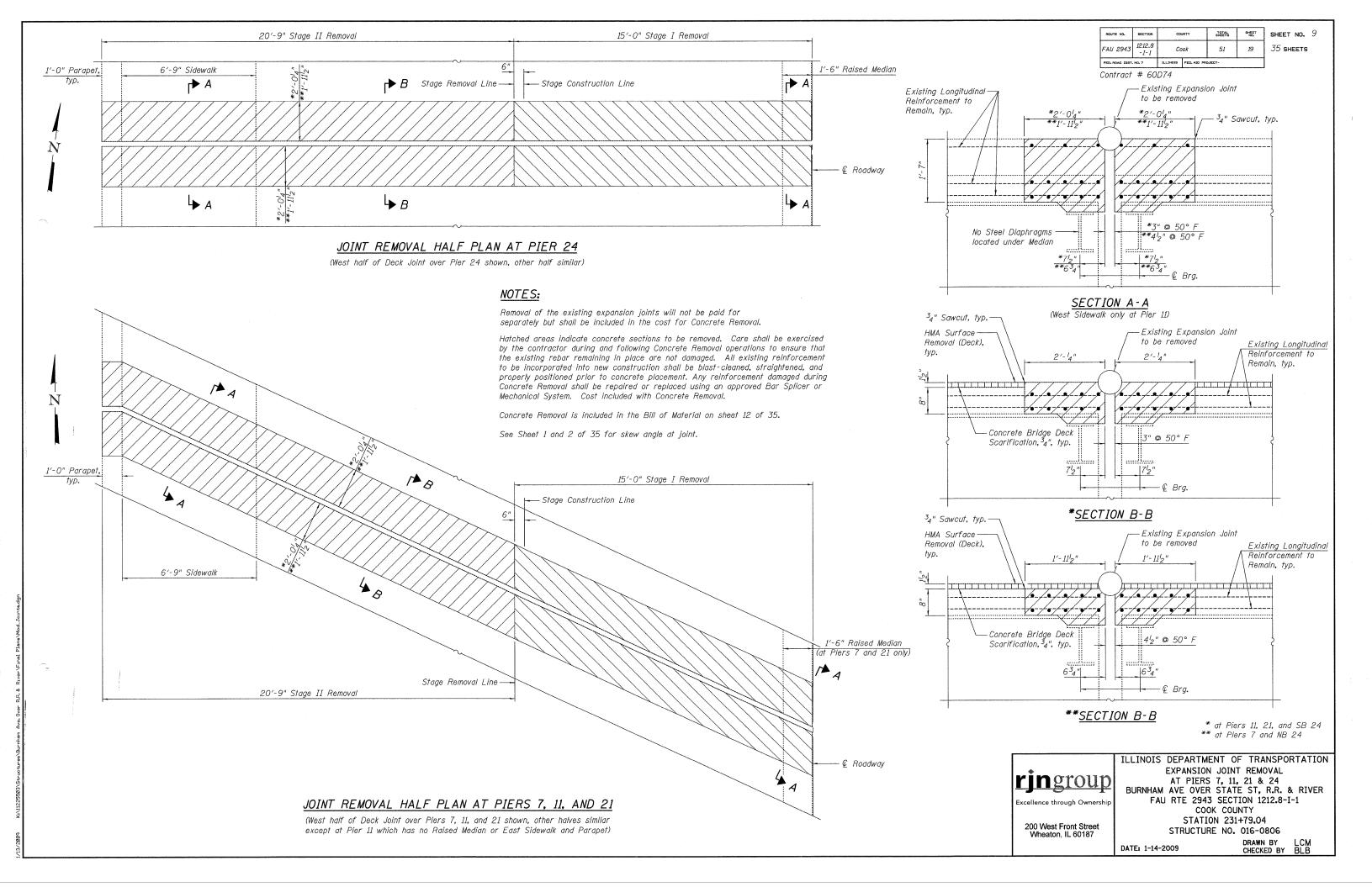
DATE: 1-14-2009 DRAWN BY JMT CHECKED BY WJV

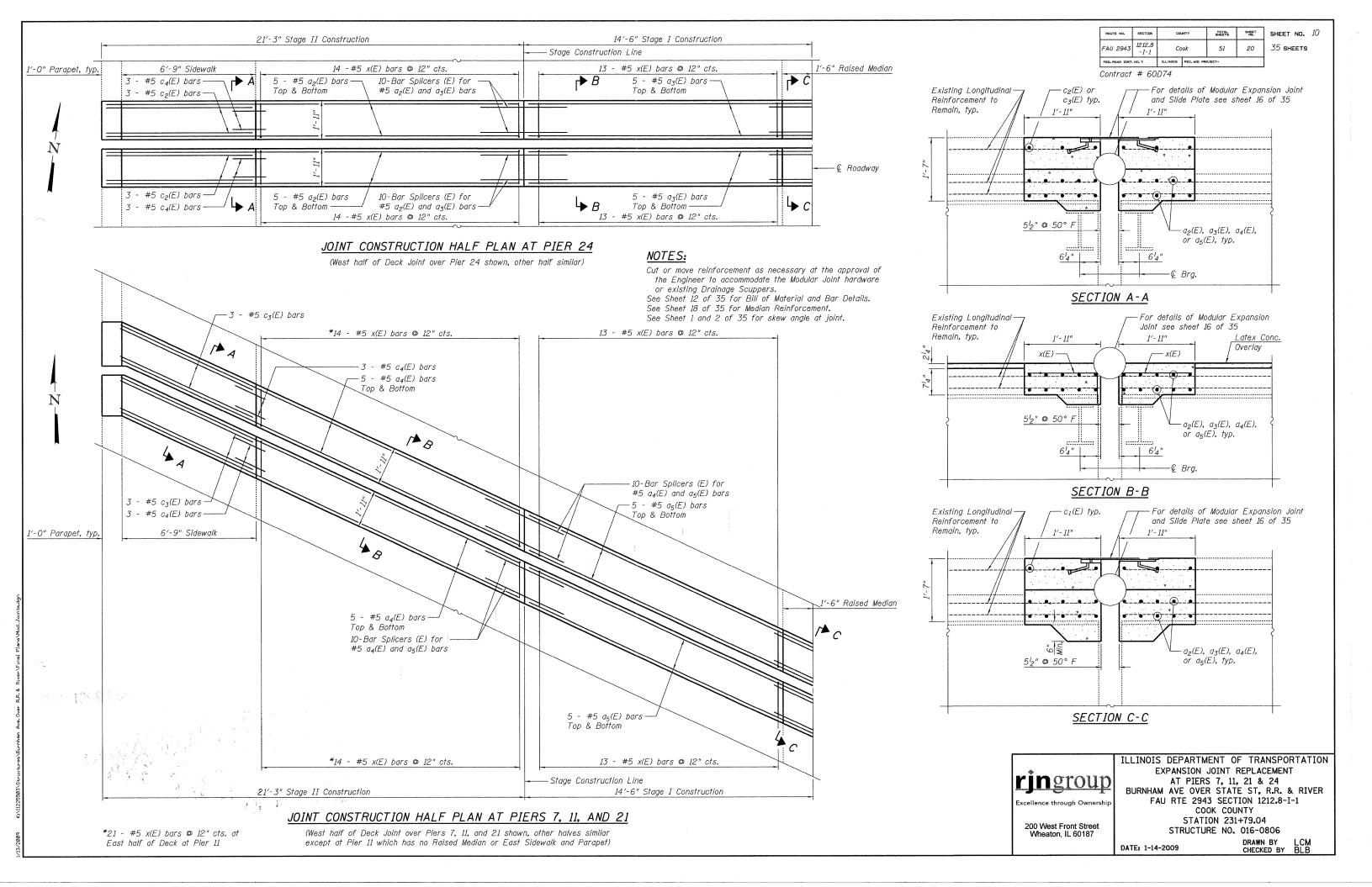


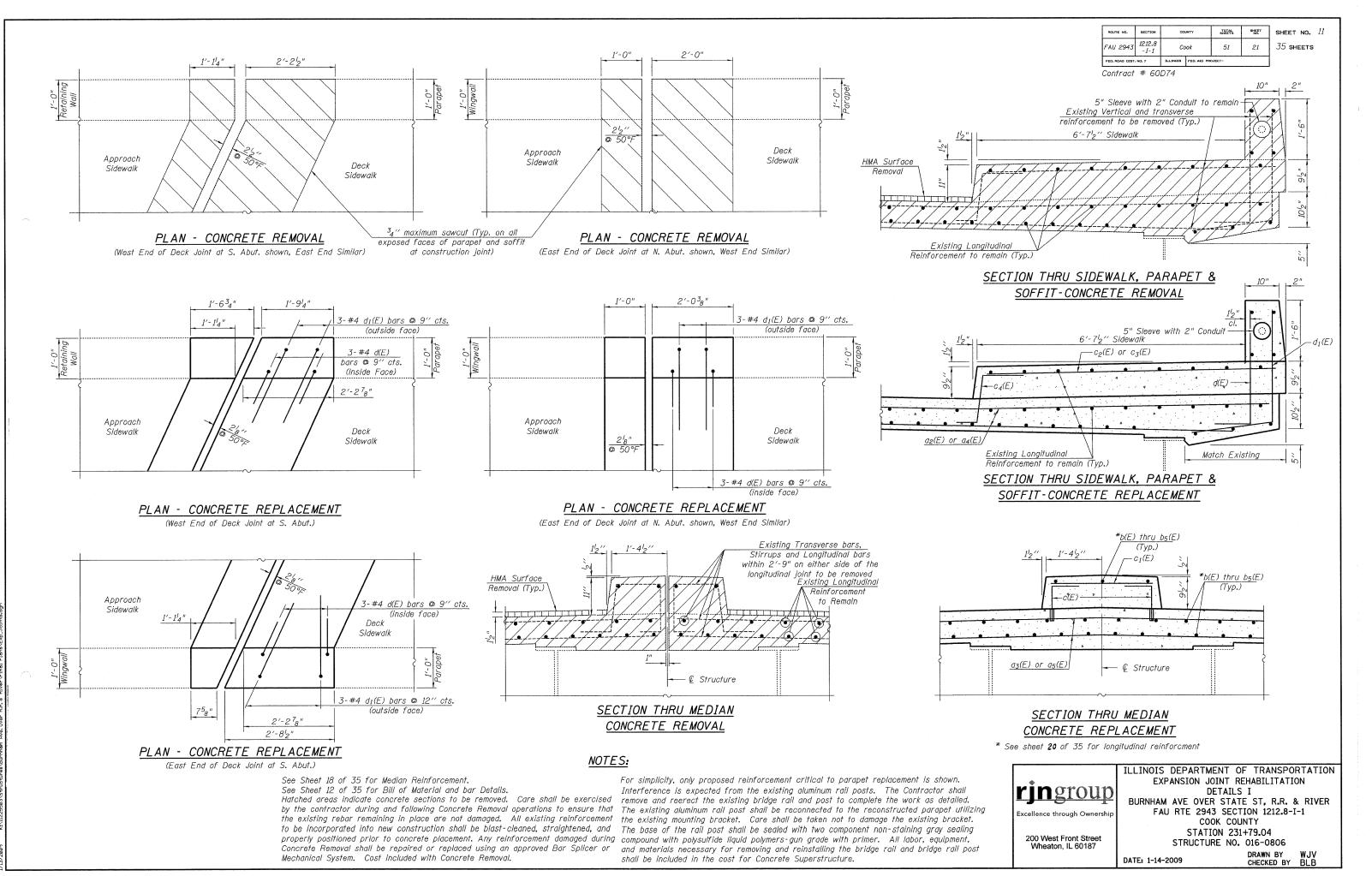


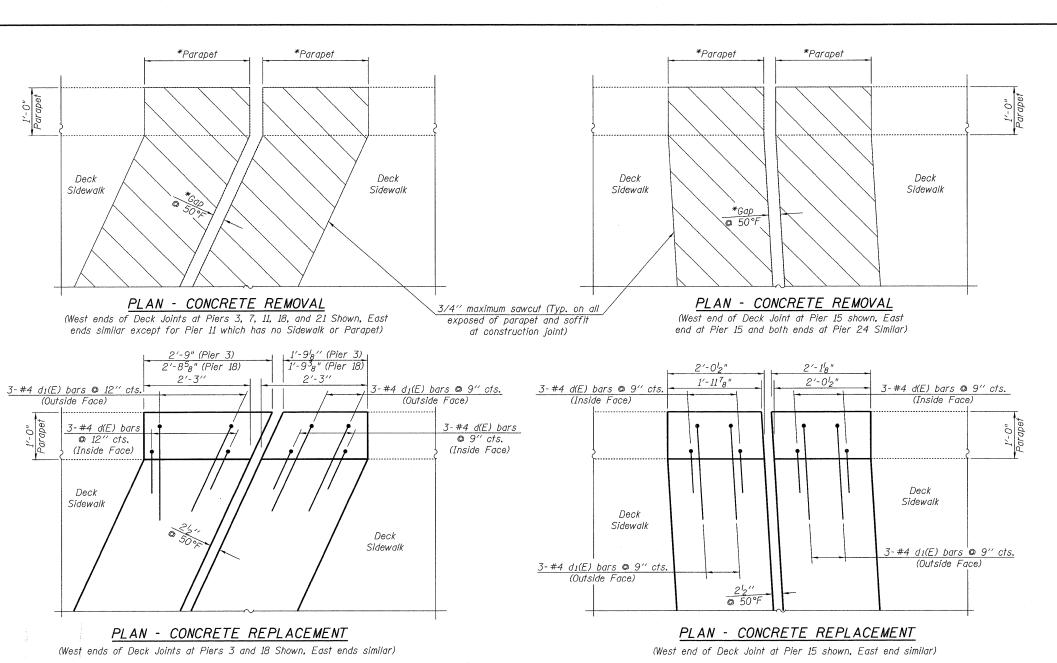


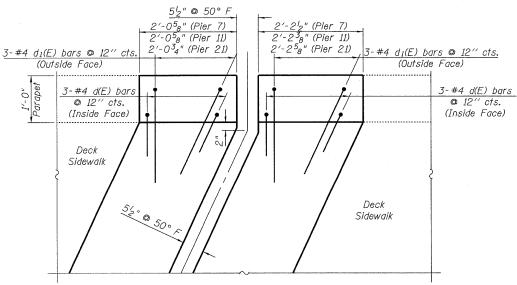






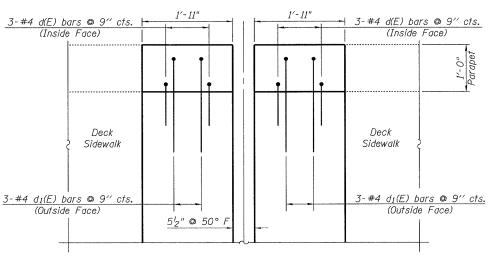






#### PLAN - CONCRETE REPLACEMENT

(West ends of Deck Joints at Piers 7, 11, and 21 Shown, East ends similar except for Pier 11 which has no Sidewalk or Parapet)



#### PLAN - CONCRETE REPLACEMENT

(West end of Deck Joint at Pier 24 shown, East end similar)

ROUTE NO.	SECTION	COUNTY		COUNTY		TOTAL SHEETS	SHEET NO.
FAU 2943	1212.8 -I-1	Cook		51	22		
FED. ROAD DIST	NO. 7	ILLINOIS	FED. AID PROJECT-				

Contract # 60D74

# \*CONCRETE PARAPET REMOVAL DIMENSIONS

			_
Location	Skew	Parapet	Gap
Pier 3	24° 38′ 27"	2'-258"	3"
Pier 7	24° 17′ 54"	2'-134"	412"
Pier 11	24° 4′ 22"	2'-2'2"	3"
Pier 15	3° 21′ 28"	2'-014"	3"
Pier 18	25°	2'-234"	3"
Pier 21	25°	2'-234"	3"
Pier 24W	0°	2'-04"	3"
Pier 24F	0°	1'-11/2"	4/2"

x(E) bars

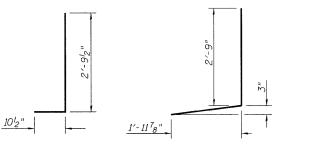
				<del></del>
ır	No.	Size	Length	Shape
=)	108	#5	20'-10''	
=)	54	#5	28'-9"	

BILL OF MATERIAL

SHEET NO. 12

35 SHEETS

108	#5	20'-10''	
54	#5		
228	#5		
114	#5	31′-8′′	
34	#5		
64	#5	8'-3''	
98	#5	2'-8''	_
90	#4	3'-8''	
90	#4	4'-9''	J
878	#5	2'-4''	
e Remo	val	Cu. Yd.	98.2
ement	Bars,	Pound	16.920
Epoxy Coated			10,920
Concrete			100.2
Superstructure			100.2
Bar Splicers			336
ve Coa	†	Sq. Yd.	318
	54 228 114 34 64 98 90 90 878 9 Remont conted by ructure icers	54 #5 228 #5 114 #5 34 #5 64 #5 98 #5 90 #4 90 #4 878 #5 9 Removal element Bars, voorded	54 #5 28'-9" 228 #5 22'-11" 114 #5 31'-8"  34 #5 7'-6" 64 #5 8'-3" 98 #5 2'-8"  90 #4 3'-8" 90 #4 4'-9"  878 #5 2'-4" erement Bars, Pound be continued for cuture icers Each



 $\underline{d(E) \ bars} \qquad \underline{d_1(E) \ bars}$ 

# 134"

c4(E) bars

#### NOTES:

For simplicity, only proposed reinforcement critical to parapet replacement is shown. See Sheet 11 of 35 for details at Median and Sidewalk.

Halched areas indicate concrete sections to be removed. Care shall be exercised by the contractor during and following Concrete Removal operations to ensure that the existing rebar remaining in place are not damaged. All existing reinforcement to be incorporated into new construction shall be blast-cleaned, straightened, and properly positioned prior to concrete placement. Any reinforcement damaged during Concrete Removal shall be repaired or replaced using an approved Bar Splicer or Mechanical System. Cost included with Concrete Removal.

Interference is expected from the existing aluminum rail posts. The Contractor shall remove and reerect the existing bridge rail and post to complete the work as detailed. The existing aluminum rail post shall be reconnected to the reconstructed parapet utilizing the existing mounting bracket. Care shall be taken not to damage the existing bracket. The base of the rail post shall be sealed with two component non-staining gray sealing compound with polysulfide liquid polymers-gun grade with primer. All labor, equipment, and materials necessary for removing and reinstalling the bridge rail and bridge rail post shall be included in the cost for Concrete Superstructure.

Care shall be taken to avoid damaging the existing electrical conduit located directly under the edge of deck on the East side of the Expansion Joint at Pier 11. When replacing the Joint at this location, extra concrete may be needed under the deck to accommodate a Support Box for the Modular Expansion Joint, similar to Section C-C on sheet 10 of 35. Any extra concrete used shall not interfere with the existing electrical conduit.



200 West Front Street

Wheaton, IL 60187

ILLINOIS DEPARTMENT OF TRANSPORTATION EXPANSION JOINT REHABILITATION DETAILS II

BURNHAM AVE OVER STATE ST, R.R. & RIVER FAU RTE 2943 SECTION 1212.8-I-1 COOK COUNTY STATION 231+79.04

STATION 231+79.04 STRUCTURE NO. 016-0806

DATE: 1-14-2009

DRAWN BY WJV CHECKED BY BLB

2 1/2" (Piers 3, 15 & 18)

 $\frac{7_{16}{''}}{bolts}$ , All bolts shall be burned, sawed,

or chipped off flush with the plates

after forms are removed, typ.



SHEET NO. SHEET NO. 13 35 sheets

TOTAL SHEETS

23

Cook

Contract # 60D74

Strip seal 15/8" (N. & S. Abuts.) 2" (Piers 3, 15 & 18) Locking edge rail-Top of slab at 50° F \* <sup>3</sup><sub>4</sub> ′′  $\phi$  x 8′′ studs at 1'-0" cts. ′ φ x <u>8′′ studs</u> at 2'-0" cts. 2 1/8" (N. & S. Abuts.) 3₄'' \$ x 8'' studs

Strip seal-15/8" (N. & S. Abuts.) 2" (Piers 3, 15 & 18) Locking edge rail Top of slab at 50° F \*3<sub>4</sub>'' \$ x 8'' studs at 1'-0" cts. 2 7/8" (N. & S. Abuts.) at 2'-0" cts. 3 1/4" (Piers 3, 15 & 18) Anchor plate 50° F. Place plates at 1'-0" cts.  $^{7}_{16}$  "  $\phi$  holes at 4'-0" cts. for  $^{3}_{8}$ "  $\phi$ (alt. with top horizontal studs)

bolts. All bolts shall be burned, sawed, or chipped off flush with the plates after forms are removed, typ.

SECTION THRU

WELDED RAIL JOINT

Notes:

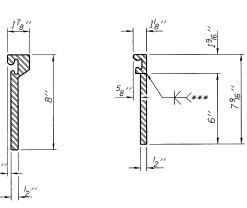
The strip seal shall be made continuous and shall have a minimum thickness of  $\frac{1}{4}$ ". The configuration of the strip seal shall match the configuration of the Locking Edge Rails. Open or "webbed" strip seal gland configurations are not permitted. The gland shall be sized for a maximum rated movement of 4 inches.

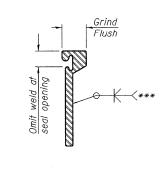
The height and thickness of the Locking Edge Rails shown are minimum dimensions. The actual configuration of the Locking Edge Rails and matching strip seal may vary from manufacturer to manufacturer. Flanged edge rails will not be allowed. Locking Edge Rails may be spliced at slope discontinuities and stage construction joints.

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.

### SECTION THRU ROLLED RAIL JOINT



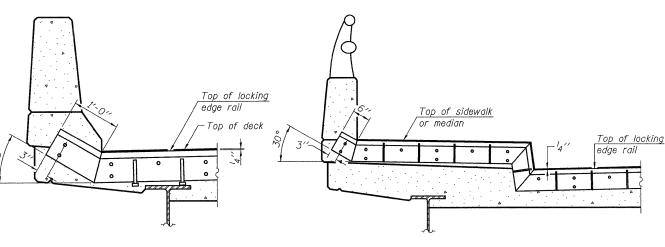


at 1'-0'' cts. (alt. with

top horizontal studs).

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

ANCHOR P (for welded rail)



AT PARAPET

#### AT SIDEWALK OR MEDIAN

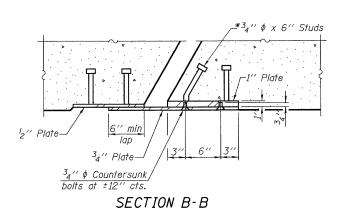
Shorter plates with a single row of studs at 12" cts. may be necessary on medians which are shallower than 9". See manufacturer's recommendation.

#### ROLLED EXTRUDED RAIL WELDED RAIL

#### LOCKING EDGE RAIL SPLICE

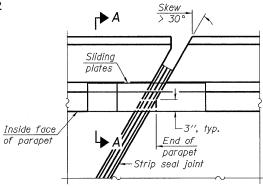
The inside of the locking edge rail groove shall be free of weld

#### TYPICAL END TREATMENTS

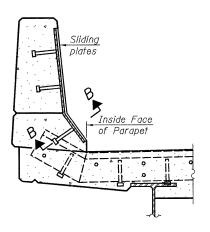


BILL OF MATERIAL Unit . Total Preformed Joint Strip Seal Foot

#### LOCKING EDGE RAILS



PLAN



SECTION A-A

POINT BLOCK DETAILS (for skews > 30°)

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200 West Front Street Wheaton, IL 60187

ILLINOIS DEPARTMENT OF TRANSPORTATION PREFORMED JOINT STRIP SEAL AT ABUTMENTS AND PIERS 3, 15 & 18 BURNHAM AVE OVER STATE ST, R.R. & RIVER FAU RTE 2943 SECTION 1212.8-I-1 COOK COUNTY

STATION 231+79.04 STRUCTURE NO. 016-0806

DATE: 1-14-2009

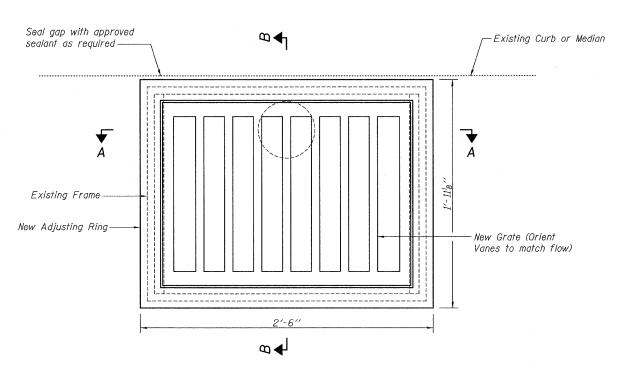
DRAWN BY WJV CHECKED BY BLB

EJ-SSJ

10-1-08

ROUTE NO.	SECTION	cou	INTY	TOTAL SHEETS	SHEET NO.	SHEET NO.	14
FAU 2943	1212.8 -I-1	Со	ok	51	24	35 ѕнеетѕ	
FED. BOAD DIST	NO. 7	ILLINOIS	FED. AID PR	JECT-			

Contract # 60D74



PLAN OF TYPE B SCUPPER

See Sheets 1 and 2 of 35 for scupper locations.

All cast iron parts shall be gray iron conforming to the requirements of AASHTO M 105, Class 35B.

Cast iron parts shall be unfinished.

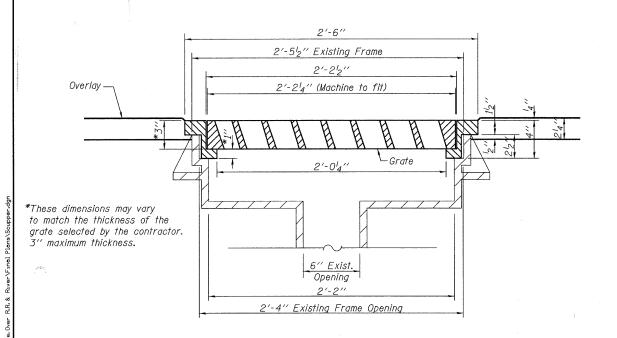
Adjusting ring and grates shall be from Neenah or approved equal. Structural steel weldments of equal sections and of the same configuration may be substituted for the cast iron adjusting ring. Fillet or full penetration welds may be used for weldments. Details shall be submitted to the engineer for approval. Structural steel weldments shall not be substituted for the cast iron scupper grate. Structural steel adjusting rings shall be galvanized according to AASHTO M111.

Provide a 1/8" fillet weld around perimeter of new adjusting ring to secure to existing scupper. Electrode shall be compatible with cast iron. Prior to welding, all exposed surfaces of the existing scupper shall be completely cleaned.

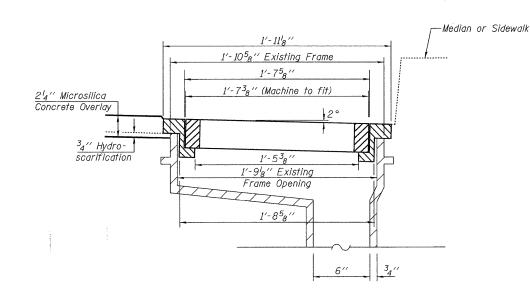
Cost of the Adjusting Ring and Grate, cleaning the existing scupper, and welding the new adjusting ring, including complete installation of the adjusting ring and grate, as well as the removal and disposal of the existing Grate, shall be paid for at the contract unit price each for Adjusting Drainage Scuppers, Type B.

The Contractor shall take appropriate measures to assure that Protective Coat is not applied to the Scuppers.

Some existing median scuppers are recessed into the existing median. Contractor shall coordinate median reconstruction with scupper grate replacement so that adequate clearance is provided for new scupper adjusting rings.



SECTION A-A



SECTION B-B

All Draft Angles are 3°.

#### BILL OF MATERIAL

Item	Unit	Quantity	
Adjusting Drainage Scuppers, Typ	e B	Each	27

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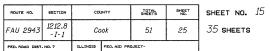
200 West Front Street Wheaton, IL 60187 ILLINOIS DEPARTMENT OF TRANSPORTATION ADJUSTING DRAINAGE SCUPPER

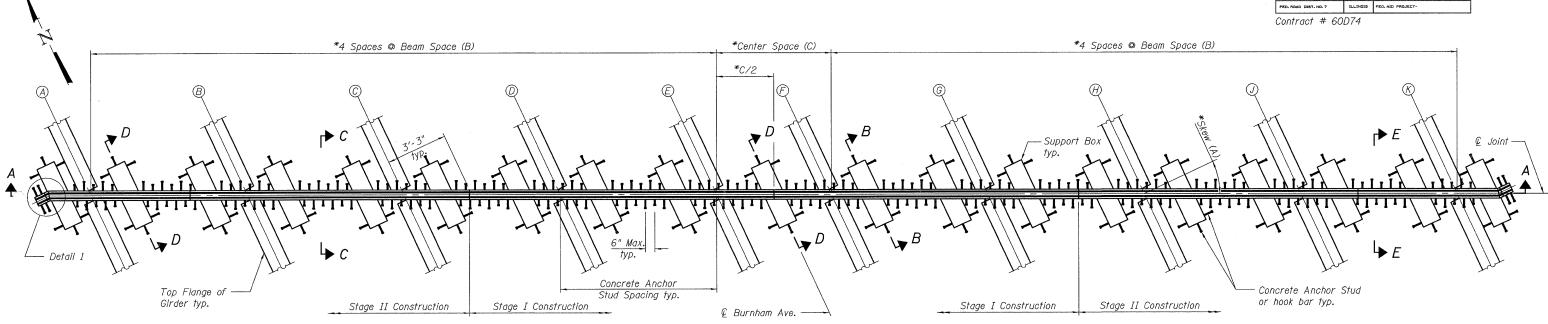
DETAILS
BURNHAM AVE OVER STATE ST, R.R. & RIVER
FAU RTE 2943 SECTION 1212.8-I-1
COOK COUNTY

COOK COUNTY STATION 231+79.04 STRUCTURE NO. 016-0806

DATE: 1-14-2009

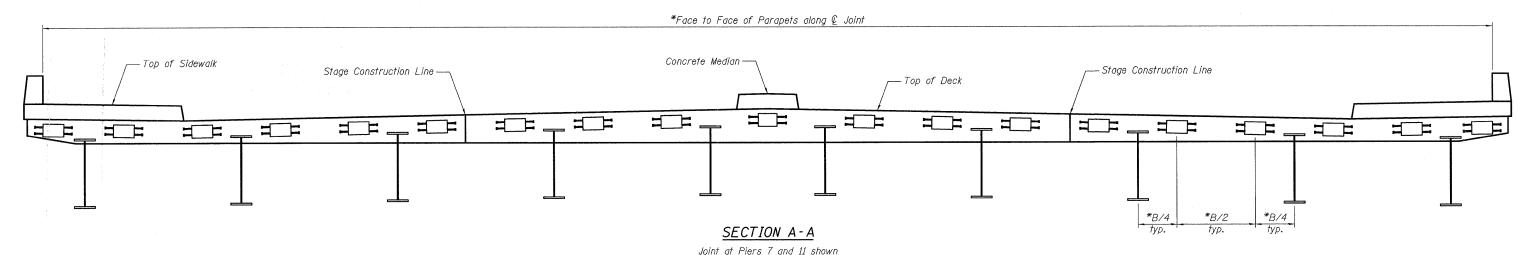
DRAWN BY BLI CHECKED BY JM





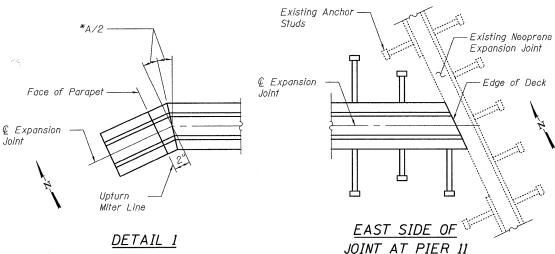
#### PLAN - MODULAR EXPANSION JOINT

Joint at Piers 7, 11 and 21 shown See sheet 15 of 35 for Section A-A of Joint at Pier 21 East end of Joint at Pier 11 continues straight to edge of deck \*See Table A on this page for dimensions



The Deck at Pier 11 has no Raised Median or East Sidewalk and Parapet

\*See Table A on this page for dimensions



Contractor shall exercise care when removing Concrete to

avoid damage to Existing Anchor Studs to remain in place

\*See Table A on this page for dimensions

#### TABLE A

Location	Type of Expansion Joint	Longitudinal Movement along & Bridge	Differential Movement at Face of Parapets	Skew (A)	Beam Space (B)	Center Space (C)	Face to Face of Parapets
Pier 7	Modular, 6"	438"	0"	24° 17′ 54"	8'-234"	6'-0 <sup>3</sup> 8"	76′-3"
Pier 11	Modular, 6"	3 <sup>7</sup> 8"	0"	24° 4′ 22"	8'-2 <sup>5</sup> 8"	6'-04"	**77′-9 <sup>1</sup> 2"
Pier 21	Modular-Swivel, 6"	3 <sup>7</sup> 8"	± 14"	25° 0′ 0"	8'-314"	6'-0 <sup>7</sup> 8"	76′-8 <sup>1</sup> 4"
Pier 24	Modular, 6"	434"	0"	0°	7′-6"	5′-6"	69′-6"

\*\*The East side of the Deck at Pier 11 has no Sidewalk or Parapet. Dimension shown is from the Face of the West Parapet to the East edge of the Deck along the Joint.)

#### NOTES:

- 1. See sheet 15 of 35 for Modular Expansion Joint notes and Bill of Material
- 2. See sheet 16 of 35 for Sections B-B, C-C, D-D, and E-E.

ringroup

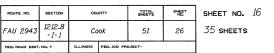
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200 West Front Street Wheaton, IL 60187

ILLINOIS DEPARTMENT OF TRANSPORTATION MODULAR JOINT AT PIERS 7, 11 & 21 BURNHAM AVE OVER STATE ST, R.R. & RIVER FAU RTE 2943 SECTION 1212.8-I-1 COOK COUNTY STATION 231+79.04 STRUCTURE NO. 016-0806

DATE: 1-14-2009

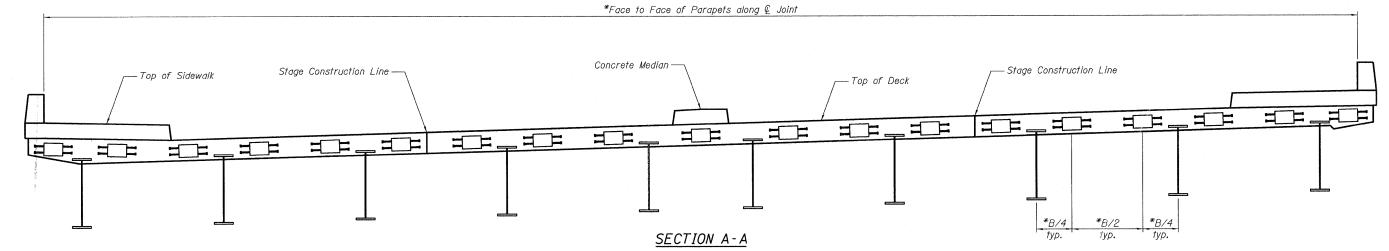
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Contract # 60D74 \*Center Space (C) \*4 Spaces @ Beam Space (B) \*4 Spaces @ Beam Space (B) \*C/2 6" Max. Detail 1typ. Support Box Top Flange of typ. Girder typ. Stage II Construction Stage I Construction Stage II Construction Stage I Construction Burnham Ave. —

#### PLAN - MODULAR EXPANSION JOINT

Joint at Pier 24 shown \*See Table A on page 14 of 34 for dimensions



Joint at Piers 21 and 24 shown \*See Table A on page 14 of 34 for dimensions

#### NOTES:

-Face of

Parapet

- Unturn

DETAIL 1

Miter Line

- Modular Expansion Joint shall be designed in accordance with the 2002 AASHTO Specifications for HS-20 truck loading with impact.
- 2. The expansion joint device shall be prefabricated modular assembly with multiple support bars and separation beams providing a continuous seal across the joint.
- 3. Joint shall be fabricated and installed according to the manufacturer's recommendations and as shown in Special Provisions for Modular Expansion Joint and as approved by the Engineer.
- 4. Joint shall be fabricated to conform to the roadway profile and cross-slopes.
- 5. All steel for the sliding plates (cover plates) shall be galvanized by the hot dip process in the shop according to AASHTO M111 (ASTM A123).
- 6. Modular Expansion Joints shall be assembled in their final relative position with the ends in place for shop inspection and acceptance.
- 7. All Splices of center beams and edge beams located in the roadway shall be full penetration welds. (Upturn splices within parapet may be partial penetration welds).

- 8. No aluminum components shall be allowed.
- 9. See sheet 10 of 35 for deck reinforcement plans.
- 10. Provide Temporary Support of End of Modular Joint by tying Studs to Deck Reinforcement.
- 11. Modular Expansion Joint shall be shipped in one piece unless noted.
- 12. All exposed structural steel elements such as separation beams, edge beams, support bars, sliding plate assemblies, and cover plates shall be fabricated with AASHTO M270 grade 50 ksi steel.
- 13. Concrete Anchor studs attached to the modular expansion joint shall conform to the requirements of article 1006.32 of the Standard Specifications. The cost of all Concrete Anchor Studs shall be included with "Modular Expansion Joint, 6" or "Modular Expansion Joint-Swivel, 6".
- 14. See sheet 16 of 35 for Sections B-B, C-C, D-D, and E-E

#### BILL OF MATERIAL

Item	Unit	Total
Modular Expansion Joint, 6"	Foot	229
Modular Expansion Joint- Swivel, 6"	Foot	79



Wheaton, IL 60187

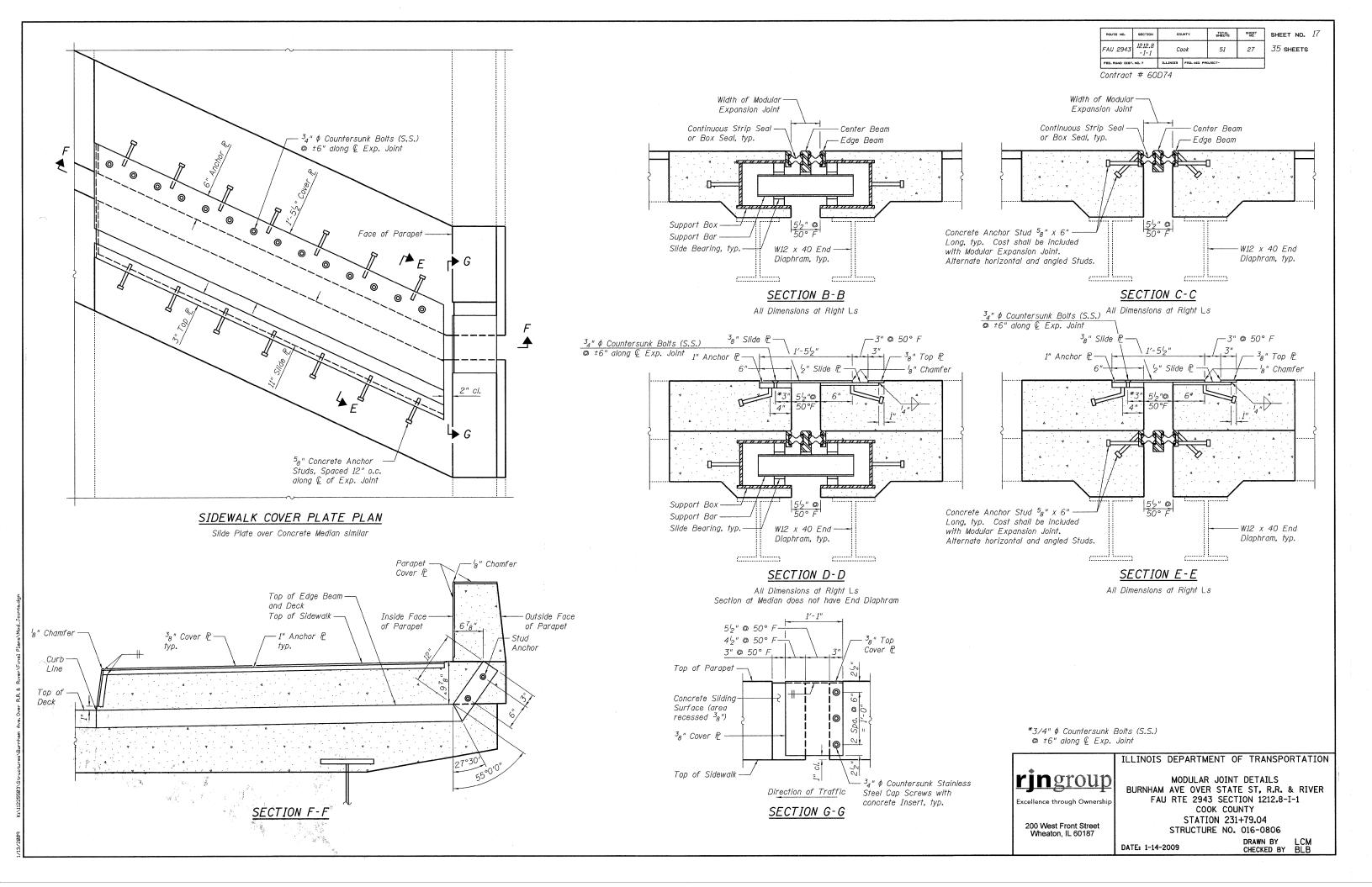
200 West Front Street

AT PIER 24 BURNHAM AVE OVER STATE ST, R.R. & RIVER FAU RTE 2943 SECTION 1212.8-I-1 COOK COUNTY STATION 231+79.04 STRUCTURE NO. 016-0806

MODULAR JOINT

DATE: 1-14-2009

DRAWN BY CHECKED BY



Contract # 60D74

Bar splicer assemblies shall be of an approved type and shall develop in tension at least 125 percent of the yield strength of the lapped reinforcement bars.

Splicer rods shall be of minimum 60 ksi yield strength, threaded or coiled full length. All reinforcement bars shall be lapped and tied to the splicer rods or dowel bars.

Bar splicer assemblies shall be epoxy coated according to the requirements for reinforcement bars.

Other systems of similar design may be submitted to the Engineer for approval. Approval shall be based on certified test results from an approved testing laboratory that the proposed bar splicer assembly satisfies the following requirements:

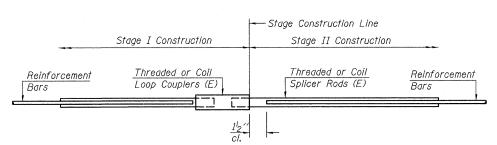
Minimum Capacity (Tension in kips) =  $1.25 \times fy \times A_t$ 

Minimum \*Pull-out Strength = 0.66 x fy x A; (Tension in kips)

Where fy = Yield strength of lapped reinforcement bars in ksi.

 $A_t$  = Tensile stress area of lapped reinforcement bars. \* = 28 day concrete

	BAR SPLICER ASSEMBLIES									
	Strength Requirements									
Bar Size to be Spliced	Splicer Rod or Dowel Bar Length	Min. Capacity kips - tension	Min. Pull-Out Strength kips - tension							
#4	1'-8''	14.7	7.9							
#5	2'-2"	23.0	12.3							
#6	2'-7"	33.1	17.4							
#7	3′-5″	45.1	23.8							
#8	4'-6''	58.9	31.3							
#9	5′-9″	75.0	39.6							
#10	7′-3′′	95.0	50.3							
#11	9'-0''	117.4	61.8							



#### STANDARD

Bar Size	No. Assemblies Required	Location
#5	28	Deck @ S. Abut.
#5	40	Deck @ Pier 3
#5	40	Deck @ Pier 7
#5	40	Deck @ Pier 11
#5	40	Deck @ Pier 15
#5	40	Deck © Pier 18
#5	40	Deck @ Pier 21
#5	40	Deck @ Pier 24
#5	28	Deck @ S. Abut.



200 West Front Street Wheaton, IL 60187

BAR SPLICER ASSEMBLY DETAILS BURNHAM AVE OVER STATE ST, R.R. & RIVER FAU RTE 2943 SECTION 1212.8-I-1 COOK COUNTY

ILLINOIS DEPARTMENT OF TRANSPORTATION

STATION 231+79.04 STRUCTURE NO. 016-0806

**NOTES** 

The diameter of this part is equal or larger than the diameter of bar spliced.

The diameter of this part is the same as the diameter of the bar spliced.

ROLLED THREAD DOWEL BAR

\*\* ONE PIECE

ijijijijiji

Wire Connector

WELDED SECTIONS

#### BAR SPLICER ASSEMBLY ALTERNATIVES

\*\*Heavy Hex Nuts conforming to ASTM A 563, Grade C, D or DH may be used. INSTALLATION AND SETTING METHODS

-Washer Face

<u>"B"</u>

Stage Construction Line

-Foam Plugs

Threaded or Coil

Splicer Rods (E)

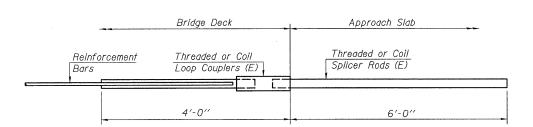
<u>"A"</u>

<u>Template</u>

Forms-

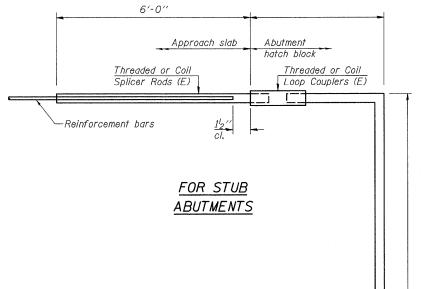
"A": Set bar splicer assembly by means of a template bolt. "B" : Set bar splicer assembly by nailing to wood forms or cementing to steel forms.

(E): Indicates epoxy coating.



FOR INTEGRAL OR SEMI-INTEGRAL ABUTMENTS

Bar Splicer for #5 bar Min. Capacity = 23.0 kips - tension Min. Pull-out Strength = 12.3 kips - tension No. Required = 0



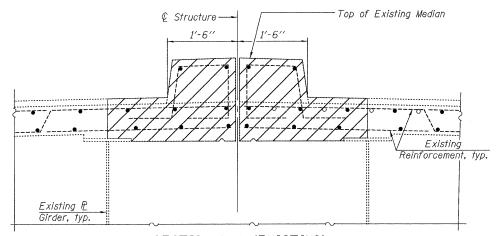
Bar Splicer for #5 bar Min. Capacity = 23.0 kips - tension Min. Pull-out Strength = 12.3 kips - tension No. Required = 0

BSD-1

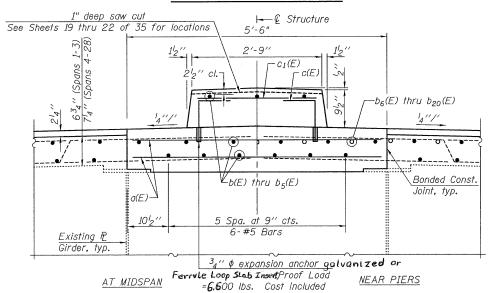
10-1-08

DATE: 1-14-2009

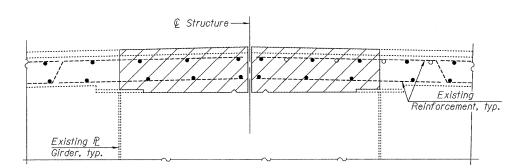
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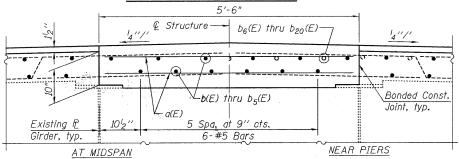
#### SECTION A-A (EXISTING)



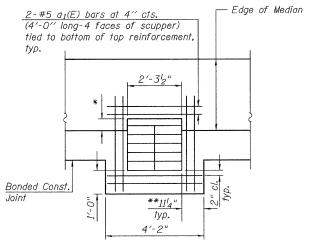
with Reinforcement Bars, Epoxy Coated. SECTION A-A (PROPOSED)



#### SECTION B-B (EXISTING)



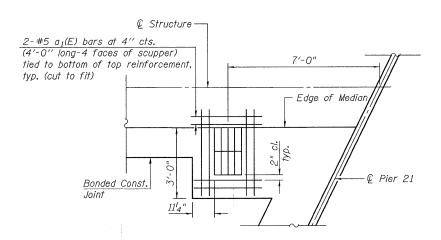
SECTION B-B (PROPOSED)



#### REINFORCEMENT AT TYPICAL DRAINAGE SCUPPER

Cut longitudinal reinforcement to clear drainage scuppers.
\*Match the existing dimension in the field.

\*\*U.N.O.



#### DRAINAGE SCUPPER, DS-12 STATION 242+85

Cut longitudinal reinforcement to clear drainage scuppers.

ROUTE NO.	SECTION	cou	INTY	TOTAL SHEETS	SHEET NO.	SHEET NO. 19
FAU 2943	1212.8 -I-1	Co	ok	51	29	35 SHEETS
FED. BOAD DIST.	ND. 7	TLL INDIS	FED. AID PRO	DJECT-		

Contract # 60D74

#### BILL OF MATERIAL

Bar	No.	Size	Length	Shape
a(E)	<i>5718</i>	#5	5'-3''	
a <sub>1</sub> (E)	48	#5	4'-0''	
b(E)	585	#5	30'-0''	
b1(E)	180	#5	30'-7''	
b2(E)	288	#5	28'-0"	
b3(E)	30	#5	29'-0''	
b4(E)	3	#5	20'-0"	
b5(E)	189	#5	31'-2''	
b <sub>6</sub> (E)	12	#6	37′-3′′	
b7(E)	6	#6	39'-3''	
ba(E)	12	#6	31'-4''	
b9(E)	6	#6	35′-8′′	
b 10 (E)	6	#6	30′-8′′	
b 11 (E)	6	#6	34'-1''	
b <sub>12</sub> (E)	6	#6	28'-3"	
b 13 (E)	6	#6	25′-5″	
b 14(E)	6	#6	29'-6''	
b 15(E)	6	#6	34'-4''	
b 16(E)	6	#6	29'-9''	
b <sub>17</sub> (E)	18	#6	40′-1′′	
b 18(E)	12	#6	44'-5"	
b 19(E)	6	#6	31'-11''	
b20(E)	6	#6	34'-10''	<u></u>
c(E)	2212	#5	1'-10''	
c1(E)	4424	#5	2'-6"	
				*****
	te Remo		Cu, Yd.	619.1
	cement	Bars,	Pound	93.220
Ероху			, , ,,,,,	
Concre			Cu. Yd.	663.0
	tructure			
	tive Coa		Sq. Yd.	1725
Bars in	ndicated	thus 6	x 2-#5	etc.

Bars indicated thus 6 x 2-#5 etc. indicates 6 line of bars with 2 lengths per line.

#### NOTES:

Hatched areas indicate concrete sections to be removed. Care shall be exercised by the contractor during and following Concrete Removal operations to ensure that the existing rebar remaining in place are not damaged. All existing reinforcement to be incorporated into new construction shall be blast-cleaned, straightened, and properly positioned prior to concrete placement. Any reinforcement damaged during Concrete Removal shall be repaired or replaced using an approved Bar Splicer of Mechanical System. Cost included with Concrete Removal.

Min. Lap Length for #5 bars = 1'-4".

Location of drainage scuppers found on Sheets 22 and 23 of 35.

Remove and Clean existing drainage scuppers adjacent to the median, then replace the existing drainage scuppers so that the rim is flush with the top surface of the proposed overlay. Cost included with Concrete Removal.

U.N.O. = Unless Noted Otherwise

1'-0"

—Thread 3½

c(E) bars

See Sheet 24 of 35 for Drainage Scupper, DS-12.



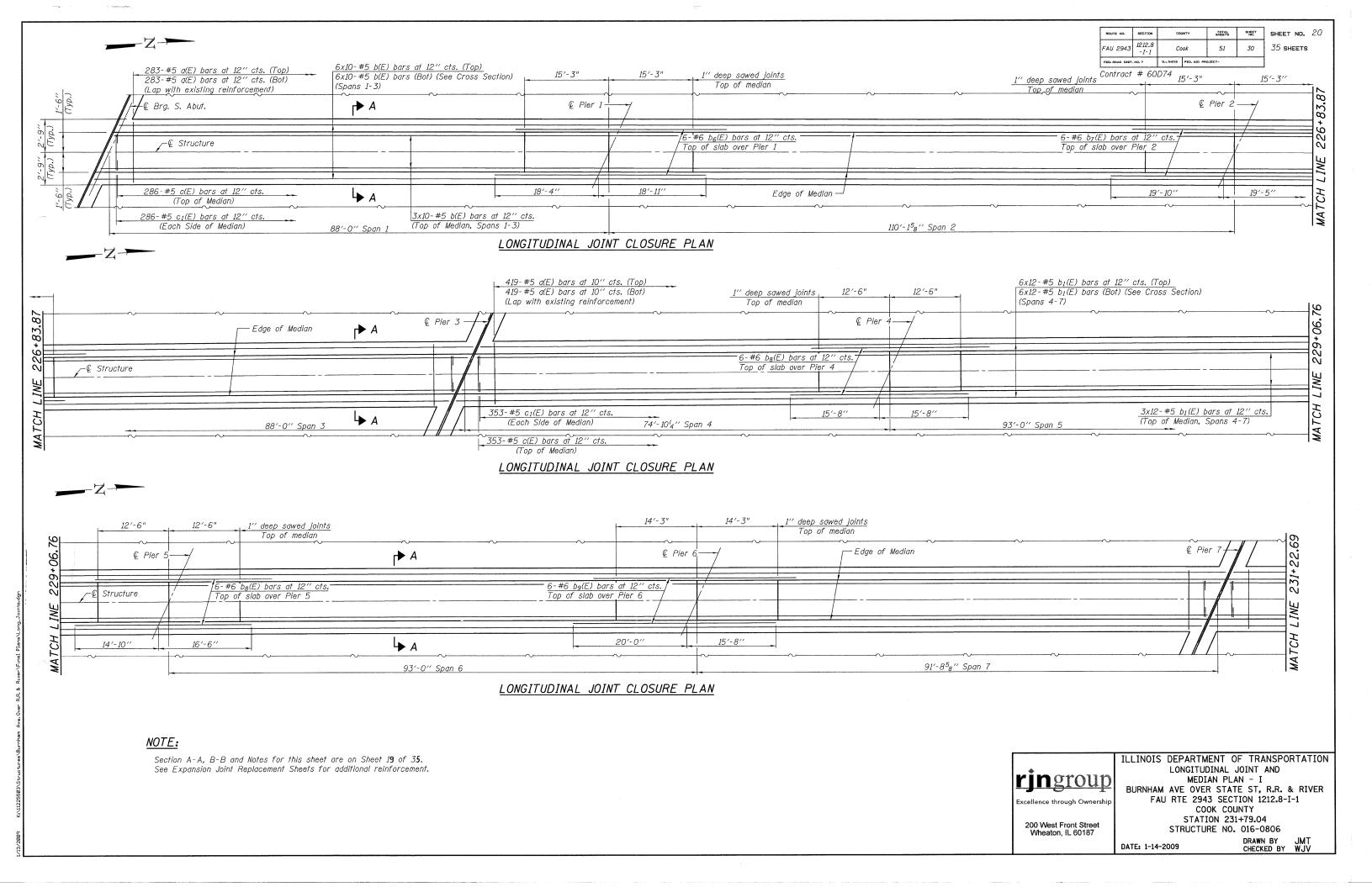
BURNH

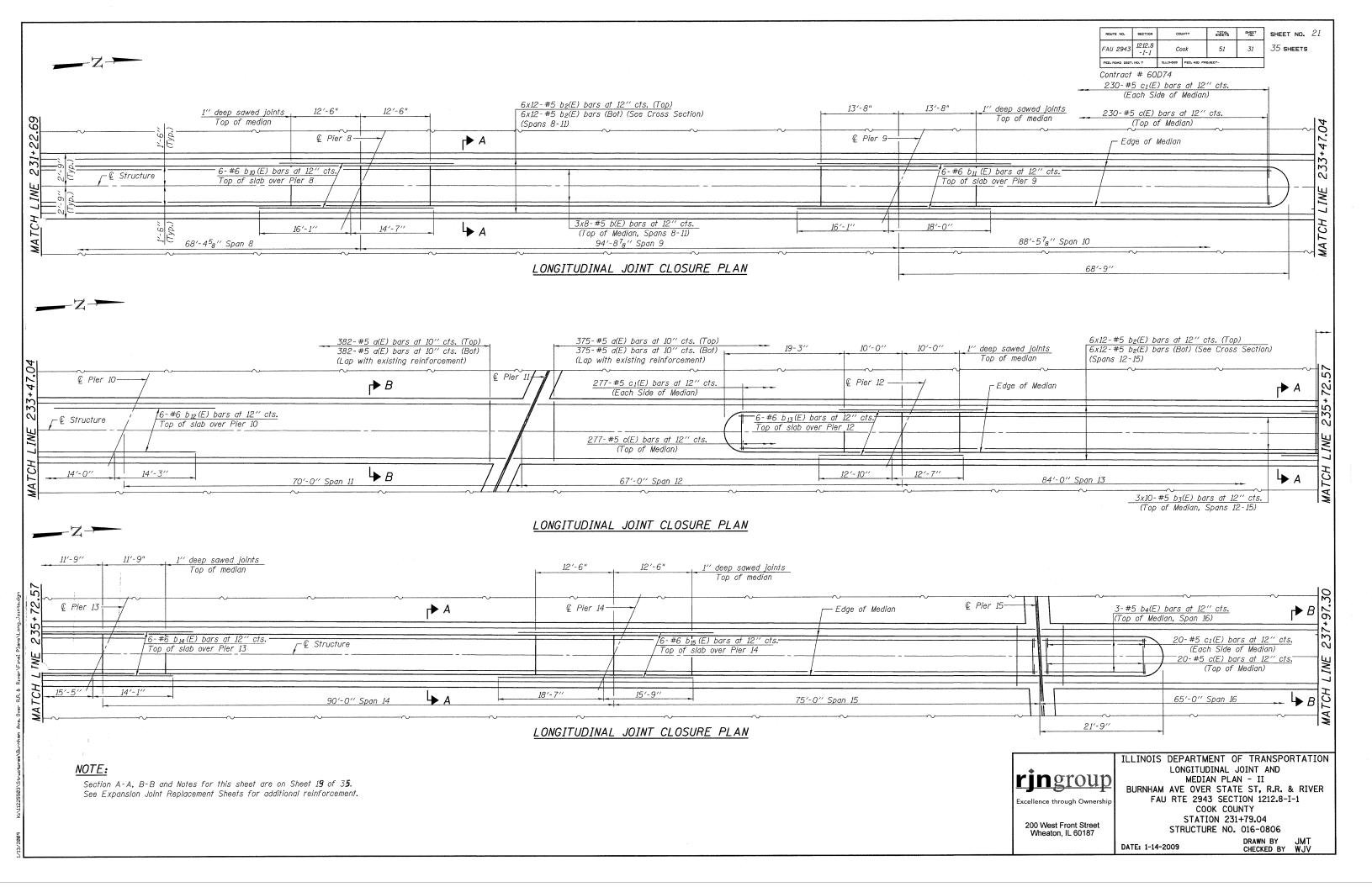
200 West Front Street Wheaton, IL 60187 ILLINOIS DEPARTMENT OF TRANSPORTATION
LONGITUDINAL JOINT AND
MEDIAN DETAIL
BURNHAM AVE OVER STATE ST. R.R. & RIVER

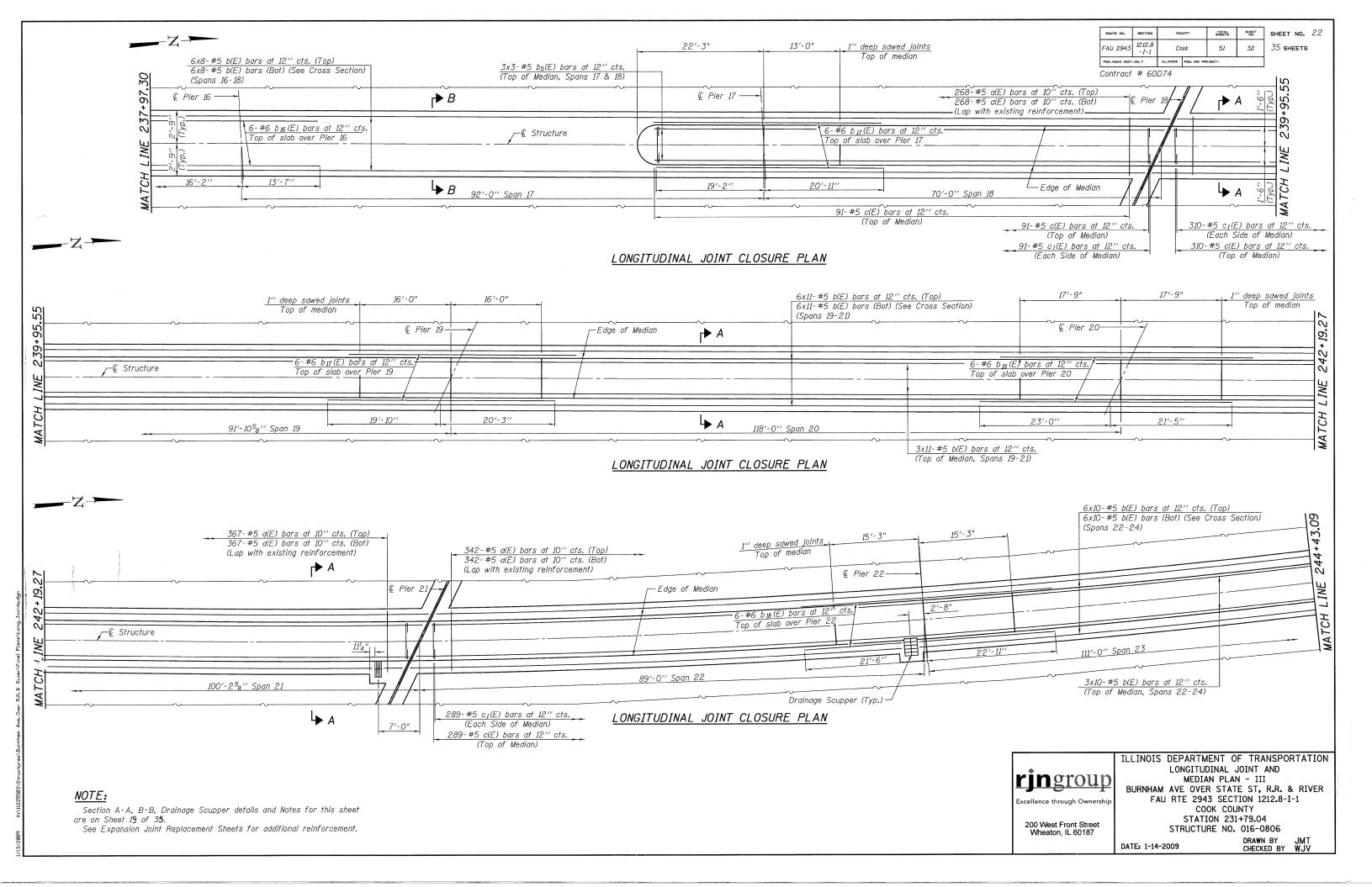
BURNHAM AVE OVER STATE ST, R.R. & RIVER FAU RTE 2943 SECTION 1212.8-I-1 COOK COUNTY STATION 231+79.04

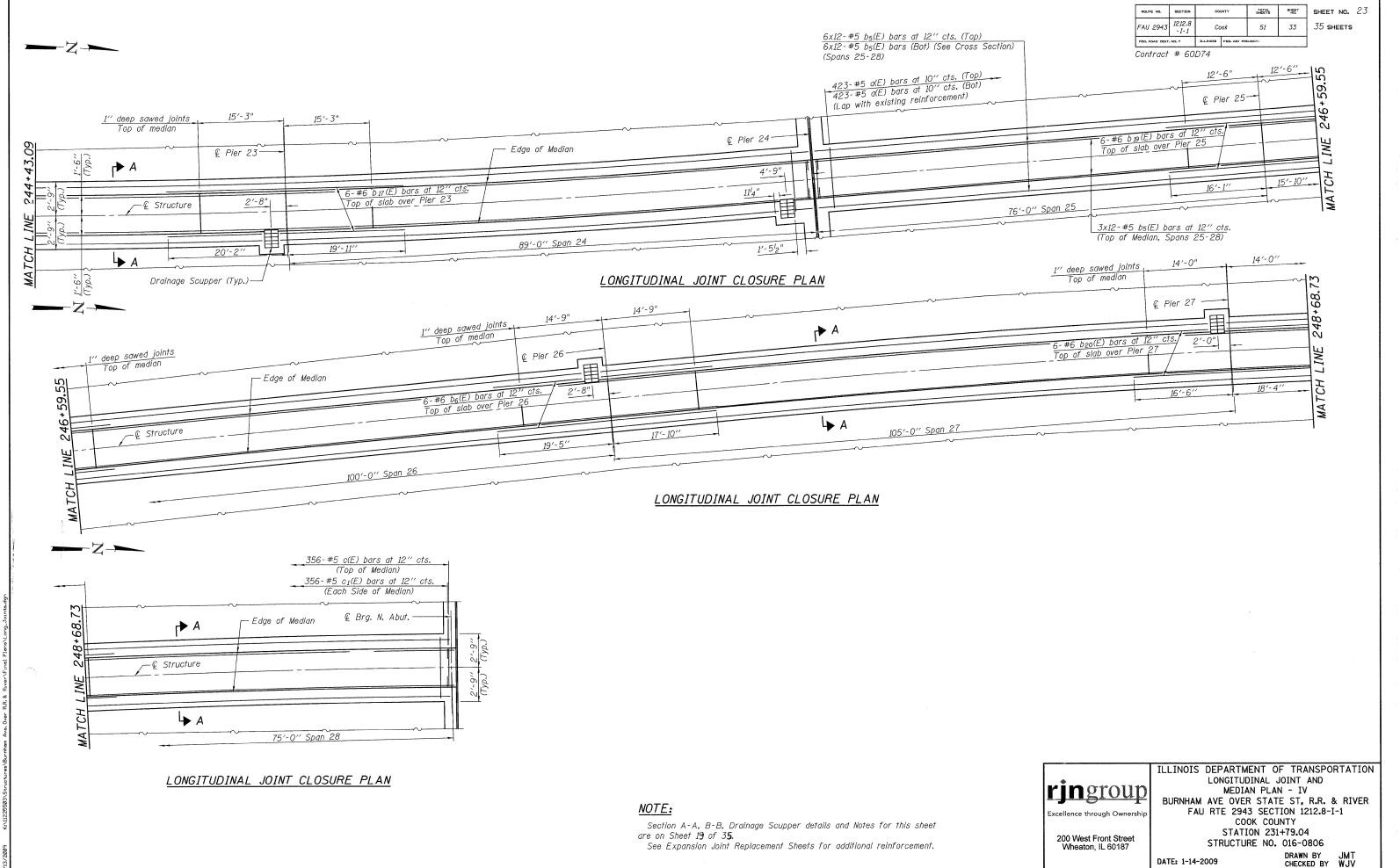
STATION 231+79.04 STRUCTURE NO. 016-0806

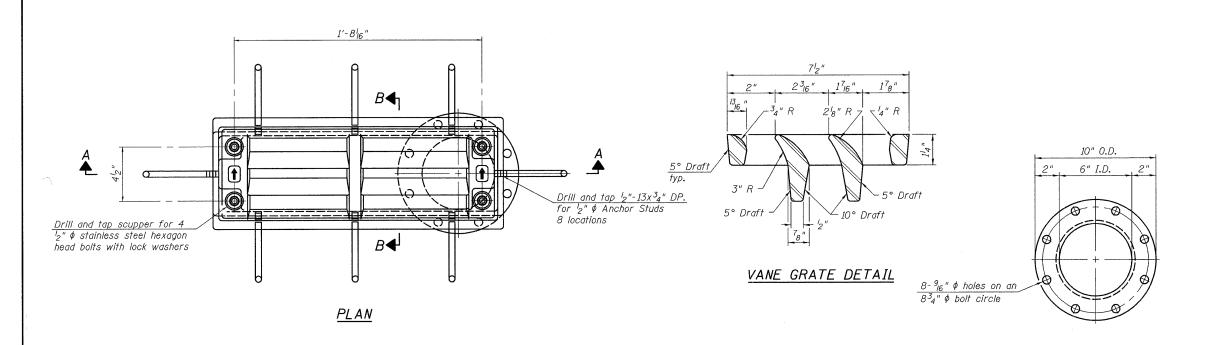
DATE: 1-14-2009 DRAWN BY JMT CHECKED BY WJV

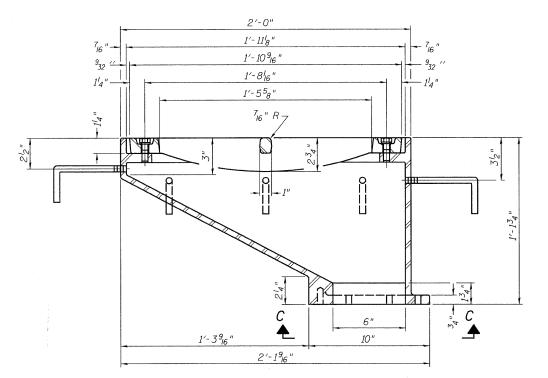




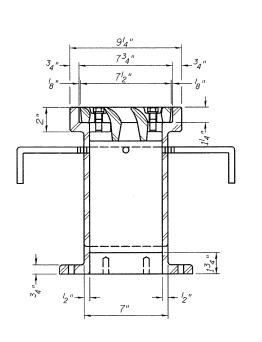






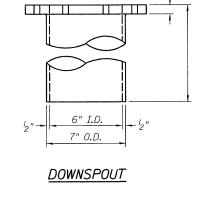


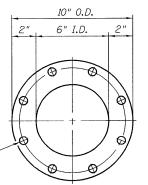
See sheet of for scupper location relative to parapet.



<u>SECTION B-B</u>

Drill and tap 8 holes for  $\frac{1}{2}$ "-13 bolts on an  $8\frac{3}{4}$ "  $\phi$  bolt circle. (2 blind holes are  $1\frac{1}{4}$ " deep, 6 thru holes)





VIEW C-C

ROUTE NO.	SECTION	cou	INTY	TOTAL SHEETS	SHEET NO.	SHEET NO.	24
AU 2943	1212.8 -I-1	Co	ok	51	34	35 внеетв	
ED. ROAD DIST	NO. 7	IFFINOIS	FED. AID PRI	DJECT-			

Contract # 60D74

Notes:

All cast iron parts shall be gray iron conforming to the requirements of AASHTO M 105, Class 35B.

Bolts, anchor studs, washers and nuts shall conform to the requirements of ASTM A 307 and shall be galvanized according to AASHTO M 232.

Downspouts located on the exterior side of a painted steel fascia beam shall be painted with the finish coat specified for the exterior side of the fascia beam.

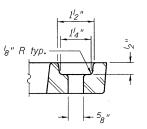
As an alternate, bolts, anchor studs, washers and nuts may be stainless steel according to Article 1006.29(d) of the Standard Specifications.

Structural steel weldments of equal sections and of the same configuration may be substituted for the cast iron scupper frame. Fillet or full penetration welds shall be used for the weldments. Details shall be submitted to the Engineer for approval. Structural steel weldments shall not be substituted for the cast iron scupper grate. Structural steel frames and downspouts shall be galvanized according to AASHTO MIII.

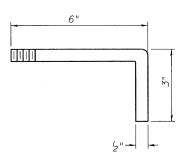
The Contractor shall take appropriate measures to assure that Protective Coat is not applied to the scupper.

Cost of the Grate, Frame, Downspout, Anchor Studs, Bolts, Washers and Nuts including complete installation of the scupper shall be paid for at the contract unit price each for Drainage Scupper, DS-12.

Alternate fiberglass downspout conforming to ASTM D 2996 with a short-time rupture strength hoop tensile stress of 30,000 psi min. may be used in lieu of the cast iron or steel equivalent.



#### BOLT HOLE DETAIL



#### ANCHOR STUD DETAIL

#### BILL OF MATERIAL

ITEM	UNIT	QUANTIT
Drainage Scupper, DS-12	Each	1

ringroup

Excellence through Ownership

200 West Front Street Wheaton, IL 60187 ILLINOIS DEPARTMENT OF TRANSPORTATION

DRAINAGE SCUPPER, DS-12
BURNHAM AVE OVER STATE ST, R.R. & RIVER
FAU RTE 2943 SECTION 1212.8-I-1
COOK COUNTY
STATION 231+79.04
STRUCTURE NO. 016-0806

DATE: 1-14-2009

DRAWN BY JMT CHECKED BY WJV be installed in holes drilled before or after members are in place.

Anchor bolts for Type II bearings shall be placed in holes drilled through the bottom bearing plate after members are in place. Side retainers shall be placed after bolts are installed.

Side retainers and other steel members required for the bearing assembly shall be included in the cost of Elastomeric Bearing Assembly, Type I or Elastomeric Bearing Assembly, Type II.

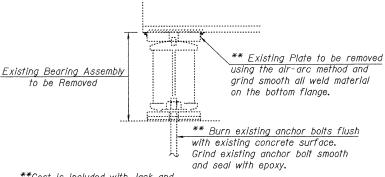
Drilled and set anchor bolts shall be installed according to Article 521.06 of the Standard Specifications.

For Type II Elastomeric Bearing Assemblies, The 18" PTFE sheet shall be bonded directly to the top steel plate with a two-component, medium viscosity epoxy resin, conforming to the requirements of the Federal Specification MMM-A-134, Type I. The bond Anchor bolts for side retainers at Type I bearings may agent shall be applied on the full area of the contact surfaces.

> For Type II Elastomeric Bearing Assemblies, Bonding of 18" PTFE sheet during vulcanizing process will be permitted provided the process and method of adjusting assembly height is approved by the Engineer.

> Prior to ordering any material, the Contractor shall verify in the field all bearing height and shim thickness dimensions.

Weight of Shim Plates and Steel Extensions included with Furnishing and Erecting Structural Steel.



Remove Existing Bearings

#### JACK AND REMOVE EXISTING BEARING

- 1. Prior to commencing any work at the bearings, the contractor shall submit plans for Jacking for approval by the Engineer.
- 3. Minimum Jack capacity is 65 Tons.

# \*\*Cost is included with Jack and

#### JACKING PROCEDURES

- 2. Jacking shall be limited so that the maximum lift transversely between adjacent beams is 1/8". See Special Provision for Jack and Remove Existing Bearings.

#### REACTION TABLE

Pogring Longtion		Reactio	n (kips)	
Bearing Location	R Q	R Ł	Impact	RTotal
© Brg. S. Abut.	37.1	38.1	9.0	84.2
€ S. Brg. Pier 3	35.5	37.9	8.9	82.3
© N. Brg. Pier 3	36.6	46.5	11.7	94.8
€ S. Brg. Pier 7	49.6	47.8	11.1	108.5
	31.9	45.9	11.9	89.7
€ S. Brg. Pier 11	35.7	45.9	11.8	93.4
© N. Brg. Pier 11	34.5	45.9	12.0	92.4
€ S. Brg. Pier 15	45.5	47.7	11.0	104.2
© N. Brg. Pier 15	31.4	45.6	12.1	89.1
€ S. Brg. Pier 18	43.3	47.4	11.2	101.9
© N. Brg. Pier 18	45.6	47.7	11.0	104.3
€ S. Brg. Pier 21	50.5	48.0	10.7	109.2
€ N. Brg. Pier 21	55.6	48.6	10.5	114.7
€ S. Brg. Pier 24	47.3	47.5	11.1	105.9
€ N. Brg. Pier 24	41.4	23.3	5.8	70.5
© Brg. N. Abut.	40.0	23.2	5.8	69

#### SHIM TARIF

		$\overline{2}$	IIIIV	17	IULI	_						
Dearing Leastion	Cina						*Gii	der				_
Bearing Location	Size	Α	В	С	D	Ε	F	G	Н	J	K	
© Brg. S. Abut.	10" x 26 <sup>1</sup> 2"	-	716"	-	716"	-	38"	-	-	-	-	
♀ S. Brg. Pier 3	10" x 12"	-	,	-	8"	-	-	-	716"	-	-	Ī
	10" x 26 <sup>1</sup> 2"	<i>l</i> "	4"	-	-	3 <sub>16</sub> "	3 <sub>16</sub> "	-	-	1	3 <sub>16</sub> "	
	11" x 26½"	-	-	-	-	8"	-	-	-	-	-	ı
	10" x 26 <sup>1</sup> 2"	-	-		-	8"	-	-	-	-	-	ı
© S. Brg. Pier 11	10" x 26 <sup>1</sup> 2"	-	-	-	-	-	l <sub>8</sub> "	38"	-	-	-	ı
© N. Brg. Pier 11	10" x 26 <sup>1</sup> 2"	-	-	-	-	-	-	516"	-	-	-	ĺ
€ S. Brg. Pier 15	11" x 26 <sup>1</sup> 2"	-	-	-	2"	516"	5 <sub>16</sub> "	-	-	1	-	ı
€ N. Brg. Pier 15	10" x 12"	-	-	-	716"	-	-	716"	716"	716"	716"	ĺ
© S. Brg. Pier 18	11" x 26½"	-	-	-	-	4"	9 <sub>16</sub> " 3 <sub>8</sub> "	4"	4"	4"	4"	ĺ
€ N. Brg. Pier 18	11" x 12"	-	-	-	-	-	38"	-	-	1	-	ĺ
	11" x 26½"	-	-	1	-	-	. 1	1	-	-	-	ĺ
© N. Brg. Pier 21	11" x 16"	_	-		-	-	-	-	-		-	ĺ
€ S. Brg. Pier 24	11 x 31"	-	-	-	-	-	-	-	-	8"	3 <sub>16</sub> "	ĺ
© N. Brg. Pier 24	10" x 26 <sup>1</sup> 2"	-	-	-	-	-	-	-	-	-	-	ĺ
© Brg. N. Abut.	10" x 26 <sup>1</sup> 2"	-	-	1	-	-	-	-	-	-	-	ĺ

\*Girder A is the furthest West at all locations

tal 34
4
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2
2
9 <b>2</b> 0
28

#### BEARING DIMENSIONS

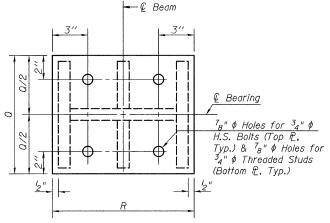
Pogring Loggian	Bearing			Ε	lastome	r				Тор	Plate		Во	ttom Pla	ate .	Side	e Retair	ners	Stee	l Exter	sion	Bot. Flange
Bearing Location	Туре	Α	В	С	Nρ	Τp	Ns	Ts	D	Ε	F	G	Н	J	Κ	L	М	P	Q	R	S	tf (max.)
€ Brg. S. Abut.	Type II	9"	12"	416"	7	3 <sub>8</sub> "	6	332 "	10'2"	14"	1/2"	178"	10"	26'2"	14"	6"	618''	2134"	1012"	12"	7"	1 <sup>1</sup> 8"
	Type I	9"	12"	3316"	7	3 <sub>8</sub> "	6	32 "	10"	14"	1/2"	-	-	-	-	434"	61/8''	2134"	10"	12"	912"	<sup>7</sup> 8"
ℚ N. Brg. Pier 3	Type II	9"	12"	416"	7	3 <sub>8</sub> "	6	32 "	1014"	14"	1 <sup>5</sup> 8"	1 <sup>7</sup> 8"	10"	26'2"	1 <sup>3</sup> 8"	6"	68''	2134"	104"	12"	678"	3 <sub>4</sub> "
	Type II	10"	14"	418"	6	<sup>7</sup> 16 "	5	8"	11 <sup>1</sup> 2"	16"	134"	134"	11"	26'2"	1 <sup>3</sup> 8"	6"	51/8"	2134"	1112"	12"	634"	1 <sup>3</sup> 8"
© N. Brg. Pier 7	Type II	9"	12"	4/16"	7	3,"	6	332 "	104"	14"	1 <sup>5</sup> 8"	1 <sup>5</sup> 8"	10"	26'2"	14"	5 <sup>3</sup> 4"	6/8''	2134"	1014"	12"	71/8"	34"
© S. Brg. Pier 11	Type II	9"	12"	4/16"	7	38"	6	332 "	10"	14"	1 <sup>5</sup> 8"	1 <sup>5</sup> 8"	10"	26'2"	$1^{3}8''$	5 <sup>3</sup> 4"	618"	2134"	10"	12"	7"	34"
© N. Brg. Pier 11	Type II	9"	12"	4/16"	7	38"	6	332 "	10"	14"	158"	1 <sup>5</sup> 8"	10"	26'2"	138"	5 <sup>3</sup> 4"	68"	2134"	10"	12"	7"	34"
© S. Brg. Pier 15	Type II	10"	14"	48"	6	16"	5	<u>'8"</u>	111/2"	16"	134"	134"	11"	26'2"	14"	6"	5/8''	2134"	11'2"	12"	6 <sup>7</sup> 8"	1'4"
© N. Brg. Pier 15	Type I	9"	12"	24"	5	38"	4	332 "	10"	14"	158"	_	-	-	-	378"	68"	2134"	10"	12"	10 <sup>3</sup> 8"	34"
© S. Brg. Pier 18	Type II	10"	14"	4"16"	7	16"	6	8"	1114"	16"	134"	134"	11"	26'2"	14"	6/2"	5/8''	2134"	1114"	12"	6 <sup>3</sup> 8"	1"
© N. Brg. Pier 18	Type I	10"	14"	34"	6	716"	5	8"	11"	16"	134"	-	-	-	-	5"	5/8"	2134"	11"	12"	94"	3 <sub>4</sub> "
	Type II	10"	14"	4"16"	7	16"	6	8"	1134"	16"	134"	2"	11"	26'2"	1 <sup>3</sup> 8"	634"	5½''	2134"	11 <sup>3</sup> 4"	12"	6 <sup>l</sup> 8"	34"
© N. Brg. Pier 21	Type I	10"	14"	31316"	7	16"	6	8"	11"	16"	1'8"	-	-	-	-	534"	738''	264"	11"	16"	812"	12
	Type II	10"	14"	4/8"	6	<u>'</u> 16"	5	8"	1134"	16"	134"	2/8"	11"	31''	12"	6 <sup>3</sup> g"	738''	264"	1134"	16"	6½"	1'8"
© N. Brg. Pier 24		9"	12"	4/16"	7	38"	6	332 "	104"	14"	134"	138"	10"	26'2"	14"	5 <sup>7</sup> 8"	6/8''	2134"	10 4"	12"	6 <sup>5</sup> 8"	1"
© Brg. N. Abut.	Type II	9"	12"	4/16"	7	38"	6	332 "	1012"	14"	138"	158"	10"	26'2"	14"	5 <sup>3</sup> 4"	68''	2134"	1012"	12"	634"	1"

#### BILL OF MATERIAL

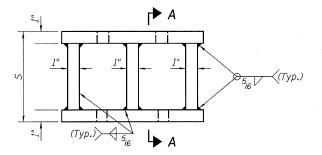
Item	Unit	Total
Jack and Remove Existing Bearings	Each	164
Elastomeric Bearing Assembly Type I	Each	42
Elastomeric Bearing Assembly Type II	Each	122
Furnishing and Erecting Structural Steel	Pound	22,9 <b>2</b> 0
Anchor Bolts, 14"	Each	328

TOTAL SHEET NO. SHEET NO. 25 ROUTE NO. FAU 2943 1212.8 -I-1 51 35 *35* **SHEETS** Cook

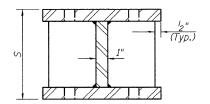
Contract # 60D74



#### STEEL EXTENSION PLAN



#### STEEL EXTENSION ELEVATION



SECTION A-A

# ringroup Excellence through Ownership

200 West Front Street

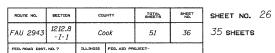
Wheaton, IL 60187

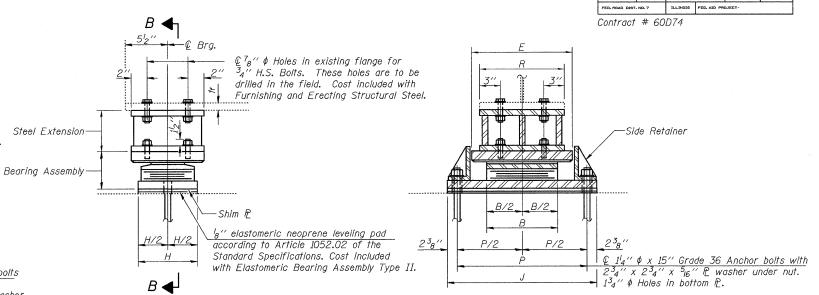
ILLINOIS DEPARTMENT OF TRANSPORTATION

BEARING REPLACEMENT DETAILS - I BURNHAM AVE OVER STATE ST, R.R. & RIVER FAU RTE 2943 SECTION 1212.8-I-1 COOK COUNTY STATION 231+79.04 STRUCTURE NO. 016-0806

DATE: 1-14-2009

DRAWN BY LM CHECKED BY BLB





**ELEVATION** Total Height does not include Shim Plates

 $A \blacktriangleleft$ 

A/2 A/2

 $A \blacktriangleleft_1$ 

Steel Extension

Bearing Assembly

- € Brg.

#### TYPE I ELASTOMERIC EXP. BRG.

B/2

P/2

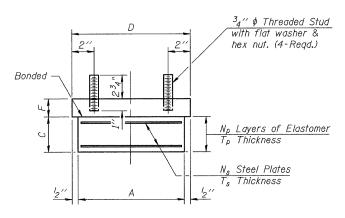
B/2

SECTION A-A

P/2

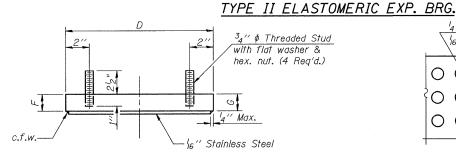
<sup>7</sup>8" ♦ Holes in existing flange for

' H.S. Bolts. These holes are to be drilled in the field. Cost included with Furnishing and Erecting Structural Steel.



#### BEARING ASSEMBLY

Shim plates shall not be placed under Bearing Assembly.



#### TOP BEARING ASSEMBLY

ELEVATION

Total Height does not include Shim Plates

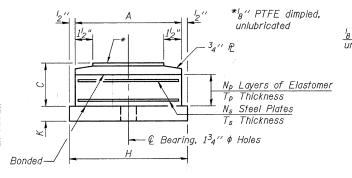
-Side Retainer, typ.

 $Q 1_4^{\prime\prime} \phi \times 15^{\prime\prime}$  Anchor bolts

 $2^{3}4'' \times 2^{3}4'' \times {}^{5}16''$  R washer

Grade 36 with

under nut



#### PLAN-PTFE SURFACE

 $\bigcirc$ 

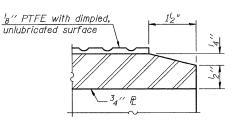
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SECTION B-B

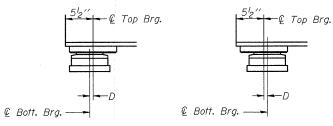
'4" ¢ Dimples on '2" centers

 $\frac{1}{16}$ " deep, or equivalent.



SECTION THRU PTFE

#### BOTTOM BEARING ASSEMBLY



(Move bott. brg. away from fixed brg.) (Move bott. brg. toward fixed brg.)

#### SETTING ANCHOR BOLTS AT TYPE II EXP. BRG.

 $D={}^{l}{}_{8}$ " per each 100' of expansion for every 15° temp. change from the normal temp. of 50°F.

# NOTE

PTFE Surface

See Sheet 25 of 35 for Table of Dimensions.

# ILLINOIS DEPARTMENT OF TRANSPORTATION ringroup Excellence through Ownershi

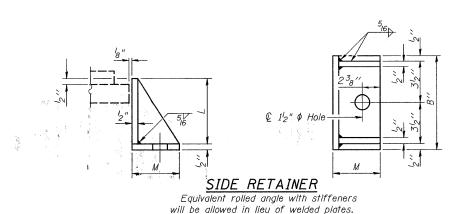
200 West Front Street Wheaton, IL 60187

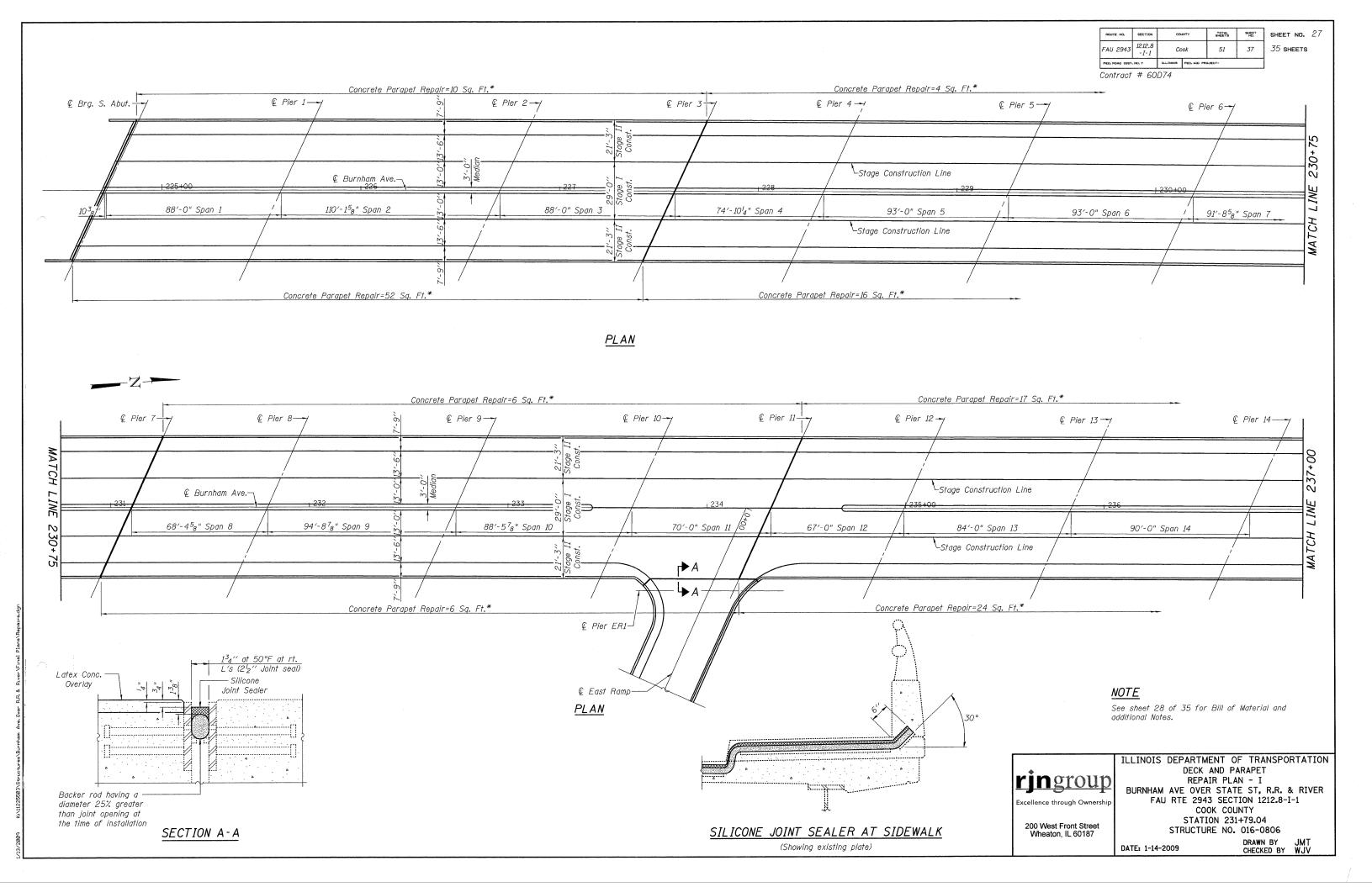
BEARING REPLACEMENT DETAILS - II BURNHAM AVE OVER STATE ST, R.R. & RIVER FAU RTE 2943 SECTION 1212.8-I-1 COOK COUNTY

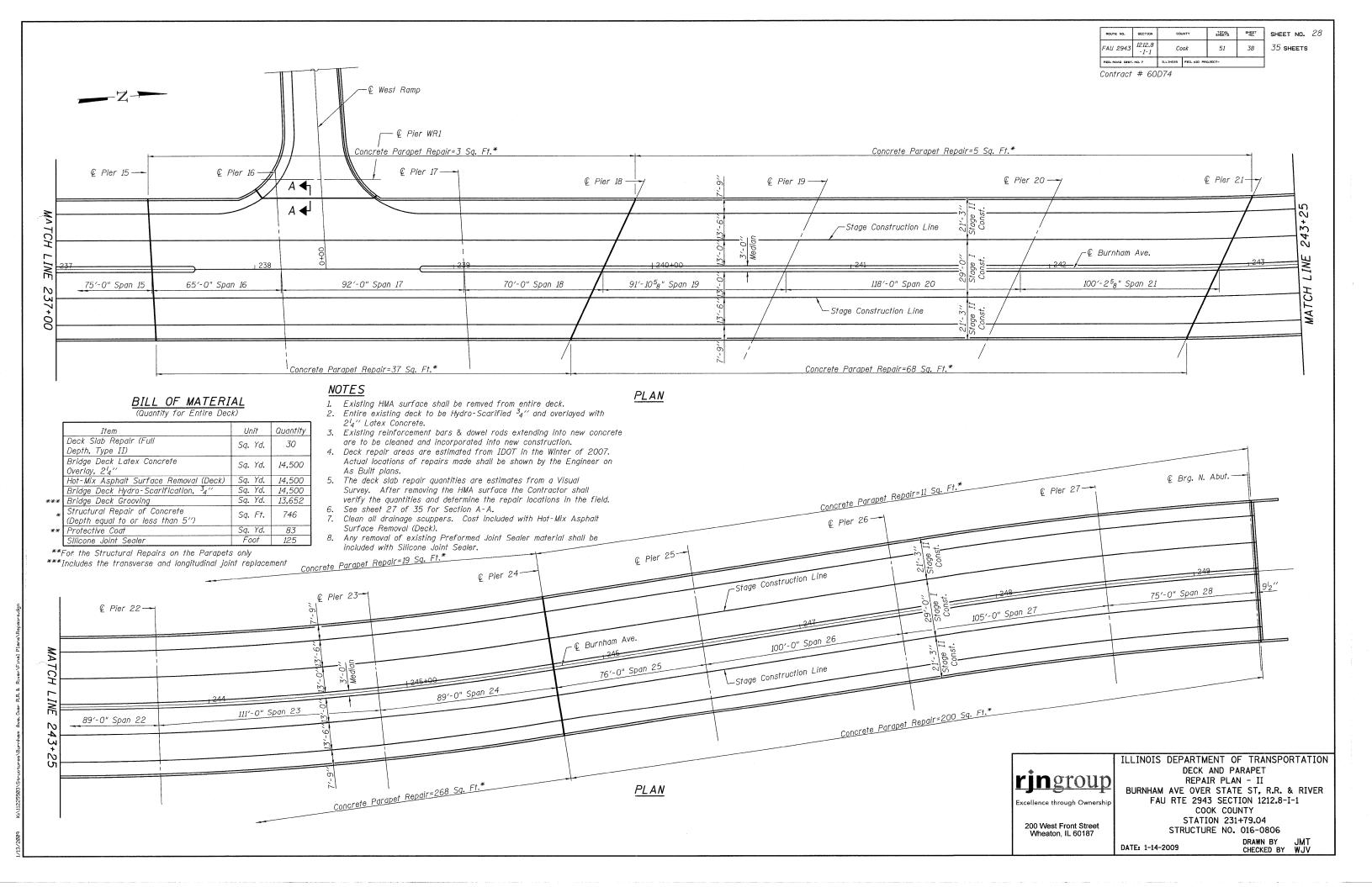
STATION 231+79.04 STRUCTURE NO. 016-0806

DATE: 1-14-2009

DRAWN BY LM CHECKED BY BLB



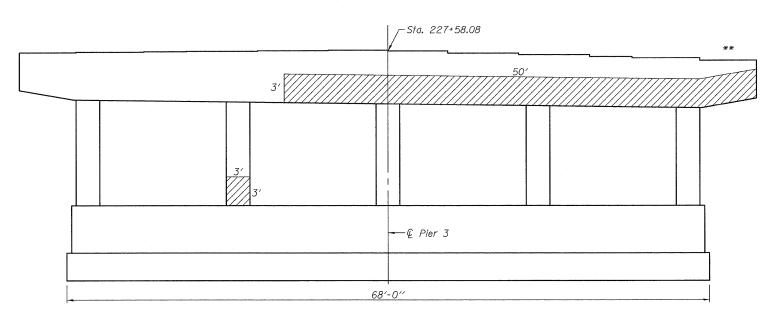




Contract # 60D74

		Sta. 227+58.08	W W
10' I' I	7/	40'	**
		€ Pier 3	
68	8'-0	J''	

PIER 3-SOUTH FACE ELEVATION



PIER 3-NORTH FACE ELEVATION

## REACTION TABLE

Descina Location	Reaction (kips)			
Bearing Location	R Q	R Ł	Impact	RTotal
© S. Brg. Pier 3	35.5	37.9	8.9	82.3
© N. Brg. Pier 3	36.6	46.5	11.7	94.8

# BILL OF MATERIAL

Item	Unit	Quantity
Structural Repair of Concrete (Depth equal to or less than 5″)	Sq. Ft.	246
Temporary Shoring and Cribbing	Each	2

# NOTE:

\*\* Indicates location for Temporary Shoring and Cribbing



Structural Repair of Concrete (Depth equal to or less than 5")

Detach the downspouts from the pier if necessary and reattach once the work is complete. Cost included with Structural Repair of Concrete (Depth equal to or less than 5").

Structural Repair of Concrete will not be allowed on any two adjacent columns at the same time, except in locations supported by Temporary Shoring and Cribbing. Work on an adjacent column shall not begin until the required curing period has elapsed on the previous column repair.



200 West Front Street Wheaton, IL 60187

ILLINOIS DEPARTMENT OF TRANSPORTATION

PIER 3 REPAIRS BURNHAM AVE OVER STATE ST, R.R. & RIVER FAU RTE 2943 SECTION 1212.8-I-1 COOK COUNTY STATION 231+79.04 STRUCTURE NO. 016-0806

DATE: 1-14-2009

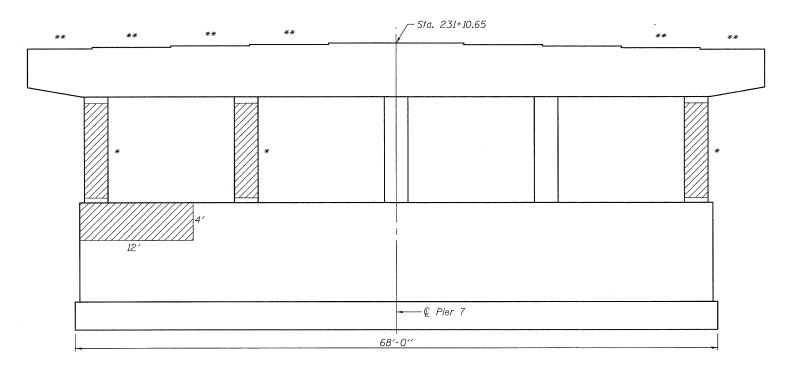
ROUTE NO.	SECTION	COUNTY		TOTAL SHEETS	SHEET NO.
FAU 2943	1212.8 -I-1	Cook		51	40
FED. ROAD DIST, NO. 7		ILLINGIS	FED. AID PR	DJECT-	

SHEET NO. 30 35 sheets

Contract # 60D74

**	**			_ Sta. 231+.	10.65 **	**	**	**
2'								6'//11
4	10'	5.	3'			10'		10'
				•	,		14′	
			68′-	-0′′				

# PIER 7-SOUTH FACE ELEVATION



PIER 7-NORTH FACE ELEVATION

## REACTION TABLE

Posting Logation	Reaction (kips)				
Bearing Location	R Q	R Ł	Impact	RTotal	
€ S. Brg. Pier 7	49.6	47.8	11.1	108.5	
© N. Brg. Pier 7	31.9	45.9	11.9	89.7	

# BILL OF MATERIAL

Item	Unit	Quantity
Structural Repair of Concrete (Depth equal to or less than 5″)	Sq. Ft.	536
Temporary Shoring and Cribbing	Each	12

## NOTES:

- \* The dimensions are included in the South Face Elevation.
- \*\* Indicates location for Temporary Shoring and Cribbing



Structural Repair of Concrete (Depth equal to or less than 5")

Detach the downspouts from the pier if necessary and reattach once the work is complete. Cost included with Structural Repair of Concrete (Depth equal to or less than 5").

Structural Repair of Concrete will not be allowed on any two adjacent columns at the same time, except in locations supported by Temporary Shoring and Cribbing. Work on an adjacent column shall not begin until the required curing period has elapsed on the previous column repair.



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ILLINOIS DEPARTMENT OF TRANSPORTATION

PIER 7 REPAIRS BURNHAM AVE OVER STATE ST, R.R. & RIVER FAU RTE 2943 SECTION 1212.8-I-1 COOK COUNTY STATION 231+79.04 STRUCTURE NO. 016-0806

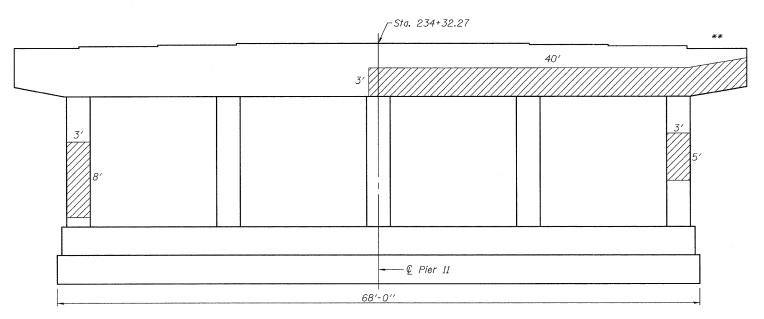
DATE: 1-14-2009

DRAWN BY JMT CHECKED BY WJV DRAWN BY

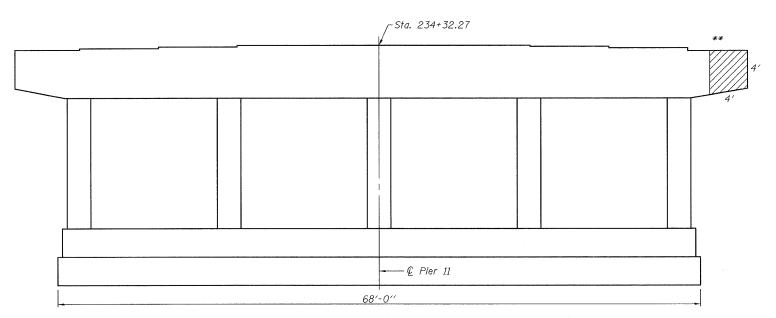
ROUTE NO.	SECTION	cou	INTY	TOTAL SHEETS	SHEET NO.
FAU 2943	1212.8 -I-1	Cook		51	41
FED. ROAD DIST. NO. 7		ILLINOIS	FED. AID PROJECT-		

SHEET NO. 31 35 **SHEETS** 

Contract # 60D74



PIER 11-NORTH FACE ELEVATION



PIER 11-SOUTH FACE ELEVATION

# REACTION TABLE

Dogring Longtion	Reaction (kips)				
Bearing Location	R Q	R4	Impact	RTotal	
€ S. Brg. Pier 11	35.7	45.9	11.8	93.4	
€ N. Brg. Pier 11	34.5	45.9	12.0	92.4	

# BILL OF MATERIAL

Item	Unit	Quantity
Structural Repair of Concrete (Depth equal to or less than 5")	Sq. Ft.	175
Temporary Shoring and Cribbing	Each	2

# NOTE:

\*\* Indicates locations of Temporary Shoring and Cribbing



Structural Repair of Concrete (Depth equal to or less than 5")

Detach the downspouts from the pier if necessary and reattach once the work is complete. Cost included with Structural Repair of Concrete (Depth equal to or less than 5").

Structural Repair of Concrete will not be allowed on any two adjacent columns at the same time, except in locations supported by Temporary Shoring and Cribbing. Work on an adjacent column shall not begin until the required curing period has elapsed on the previous column repair.



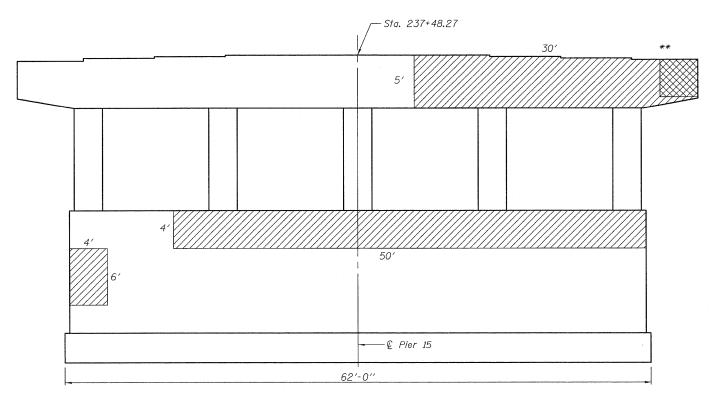
200 West Front Street Wheaton, IL 60187

ILLINOIS DEPARTMENT OF TRANSPORTATION

PIER 11 REPAIRS BURNHAM AVE OVER STATE ST, R.R. & RIVER FAU RTE 2943 SECTION 1212.8-I-1 COOK COUNTY STATION 231+79.04 STRUCTURE NO. 016-0806

DATE: 1-14-2009

# PIER 15-NORTH FACE ELEVATION



PIER 15-SOUTH FACE ELEVATION

ROUTE NO.	SECTION	cou	INTY	TOTAL SHEETS	SHEET NO.
FAU 2943	1212.8 -I-1	Cook		51	42
FED. ROAD DIST. NO. 7		ILLINGIS FED. AID PROJECT-			

SHEET NO. 32 35 **SHEETS** 

Contract # 60D74

# REACTION TABLE

Dogring Longtion		Reactio	n (kips)	
Bearing Location	R Q	R Ł	Impact	RTotal
€ S. Brg. Pier 15	45.5	47.7	11.0	104.2
© N. Bra. Pier 15	31.4	45.6	12.1	89.1

## BILL OF MATERIAL

Item	Unit	Quantity
Structural Repair of Concrete (Depth equal to or less than 5′′)	Sq. Ft.	592
Structural Repair of Concrete (Depth Greater than 5″)	Sq. Ft.	16
Temporary Shoring And Cribbing	Each	3

# *NOTE:*

\*\* Indicates location for Temporary Shoring and Cribbing

Structural Repair of Concrete (Depth Greater than 5")

Structural Repair of Concrete (Depth equal to or less than 5")

Detach the downspouts from the pier if necessary and reattach once the work is complete. Cost included with Structural Repair of Concrete (Depth equal to or less than 5").

Structural Repair of Concrete will not be allowed on any two adjacent columns at the same time, except in locations supported by Temporary Shoring and Cribbing. Work on an adjacent column shall not begin until the required curing period has elapsed on the previous column repair.



200 West Front Street Wheaton, IL 60187

ILLINOIS DEPARTMENT OF TRANSPORTATION

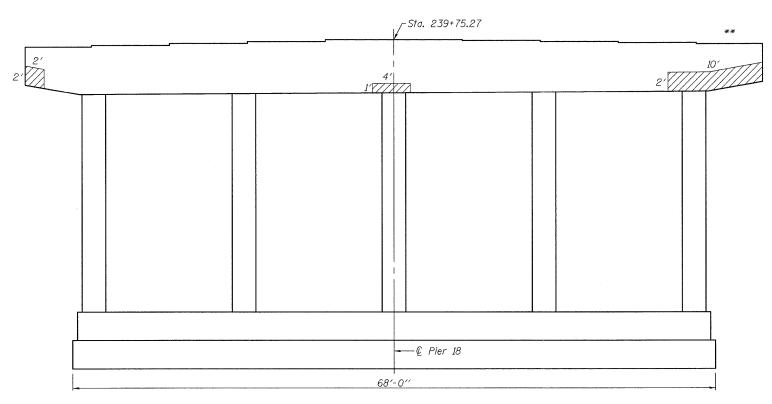
PIER 15 REPAIRS
BURNHAM AVE OVER STATE ST, R.R. & RIVER
FAU RTE 2943 SECTION 1212.8-I-1
COOK COUNTY STATION 231+79.04 STRUCTURE NO. 016-0806

DATE: 1-14-2009

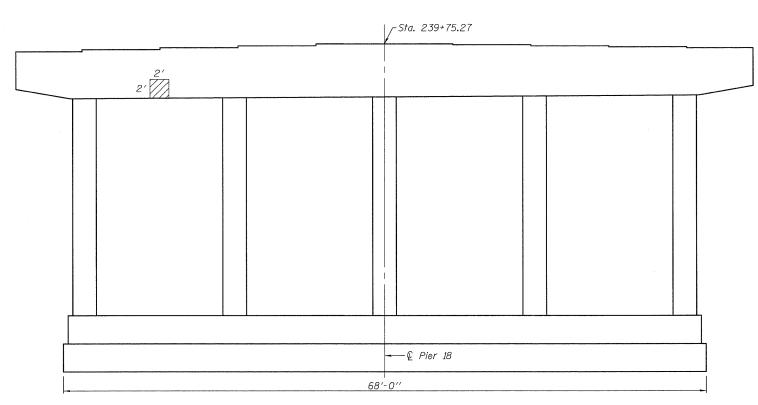
ROUTE NO.	SECTION	COUNTY		TOTAL SHEETS	SHEET NO.
FAU 2943	1212.8 -I-1	Cook		51	43
FED. ROAD DIST. NO. 7		ILLINOIS	FED. ALD PRO	DJECT-	

SHEET NO. 33 35 sheets

Contract # 60D74



# PIER 18-NORTH FACE ELEVATION



PIER 18-SOUTH FACE ELEVATION

# REACTION TABLE

Bearing Location	Reaction (kips)				
Dearing Location	R Q	R4	Impact	RTotal	
© S. Brg. Pier 18	43.3	47.4	11.2	101.9	
€ N. Brg. Pier 18	45.6	47.7	11.0	104.3	

# BILL OF MATERIAL

Item	Unit	Quantity
Structural Repair of Concrete (Depth equal to or less than 5″)	Sq. Ft.	32
Temporary Shorina and Cribbina	Each	1

# NOTE:

\*\* Indicates location of Temporary Shoring and Cribbing



Structural Repair of Concrete (Depth equal to or less than 5")

Detach the downspout from the pier if necessary and reattach once the work is complete. Cost included with Structural Repair of Concrete (Depth equal to or less than 5").

Structural Repair of Concrete will not be allowed on any two adjacent columns at the same time, except in locations supported by Temporary Shoring and Cribbing. Work on an adjacent column shall not begin until the required curing period has elapsed on the previous column repair.



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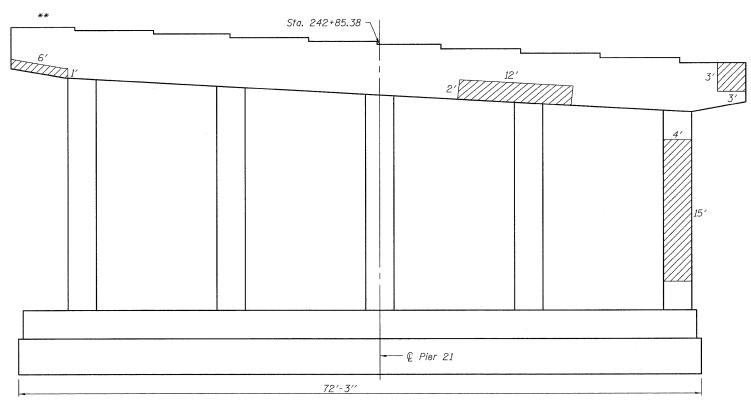
ILLINOIS DEPARTMENT OF TRANSPORTATION

PIER 18 REPAIRS
BURNHAM AVE OVER STATE ST, R.R. & RIVER FAU RTE 2943 SECTION 1212.8-I-1 COOK COUNTY STATION 231+79.04 STRUCTURE NO. 016-0806

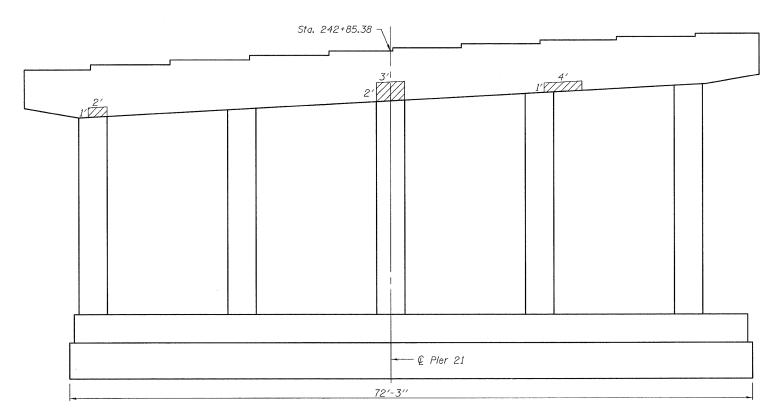
DATE: 1-14-2009

ROUTE NO.	SECTION	cou	INTY	TOTAL SHEETS	SHEET NO.	SHEET NO. 34
FAU 2943	1212.8 -I-1	Cook		51	44	35 sheets
PEO. ROAD DIST	. NO. 7	TLLINOIS	FED. AID PR	DJECT-		

Contract # 60D74



PIER 21-NORTH FACE ELEVATION



PIER 21-SOUTH FACE ELEVATION

# REACTION TABLE

Possing Longtion	Reaction (kips)					
Bearing Location	R Q	R Ł	Impact	RTotal		
€ S. Brg. Pier 21	50.5	48.0	10.7	109.2		
€ N. Brg. Pier 21	55.6	48.6	<i>10.</i> 5	114.7		

## BILL OF MATERIAL

Item	Unit	Quantity
Structural Repair of Concrete (Depth equal to or less than 5′′)	Sq. Ft.	111
Temporary Shoring and Cribbing	Each	1

# NOTE:

\*\* Indicates location of Temporary Shoring and Cribbing



Structural Repair of Concrete (Depth equal to or less than 5") Detach the downspouts from the pier if necessary and

reattach once the work is complete. Cost included with Structural Repair of Concrete (Depth equal to or less than 5").

Structural Repair of Concrete will not be allowed on any two adjacent columns at the same time, except in locations supported by Temporary Shoring and Cribbing. Work on an adjacent column shall not begin until the required curing period has elapsed on the previous column repair.



200 West Front Street Wheaton, IL 60187

ILLINOIS DEPARTMENT OF TRANSPORTATION

PIER 21 REPAIRS BURNHAM AVE OVER STATE ST, R.R. & RIVER FAU RTE 2943 SECTION 1212.8-I-1 COOK COUNTY STATION 231+79.04 STRUCTURE NO. 016-0806

DATE: 1-14-2009

ROUTE NO.	SECTION	co	JNTY	TOTAL SHEETS	SHEET NO.	SHEET NO. 35
FAU 2943	1212.8 -I-1	Cook		51	45	35 SHEETS
FED. ROAD DIST. NO. 7 ILLINOIS FED. AID PROJE			OJECT-			

Contract # 60D74

<u>REACTION TABLE</u>

Do	Bearing Location		Reaction (kips)			
Dec	IIIII Locarion	R Q	R4	Impact	RTotal	
Q S	Brg. Pier 24	47.3	47.5	11.1	105.9	
Q N.	Brg. Pier 24	41.4	23.3	5.8	70.5	

# BILL OF MATERIAL

Item	Unit	Quantity
Structural Repair of Concrete (Depth equal to or less than 5'')	Sq. Ft.	75
Temporary Shoring and Cribbing	Each	1

# NOTE:

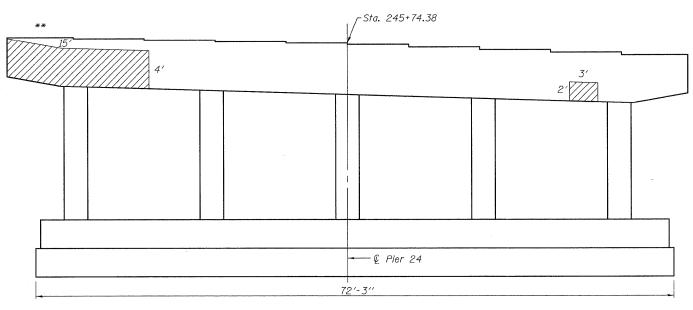
\*\* Indicates location for Temporary Shoring and Cribbing

Structural Repair of Concrete (Depth equal to or less than 5")

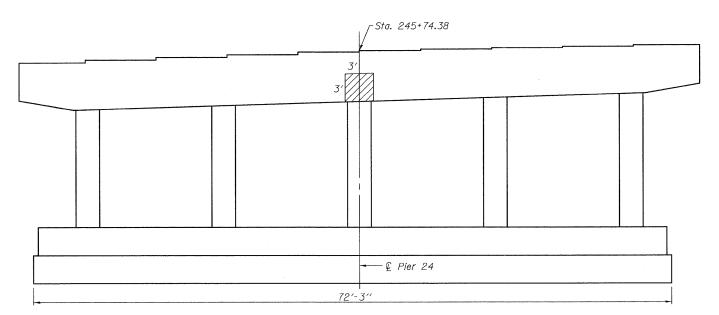
Detach the downspouts from the pier if necessary and

reattach once the work is complete. Cost included with Structural Repair of Concrete (Depth equal to or less than 5"). Structural Repair of Concrete will not be allowed on any two

adjacent columns at the same time, except in locations supported by Temporary Shoring and Cribbing. Work on an adjacent column shall not begin until the required curing period has elapsed on the previous column repair.



# PIER 24-NORTH FACE ELEVATION



PIER 24-SOUTH FACE ELEVATION

ringroup

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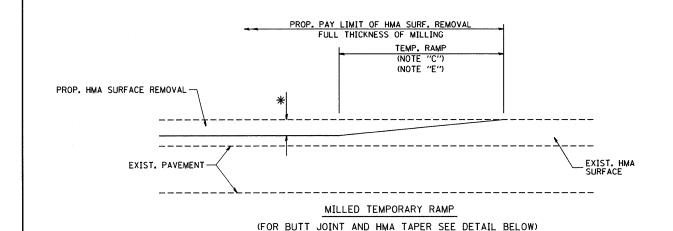
200 West Front Street Wheaton, IL 60187 ILLINOIS DEPARTMENT OF TRANSPORTATION

PIER 24 REPAIRS
BURNHAM AVE OVER STATE ST, R.R. & RIVER
FAU RTE 2943 SECTION 1212.8-I-1
COOK COUNTY
STATION 231+79.04
STRUCTURE NO. 016-0806

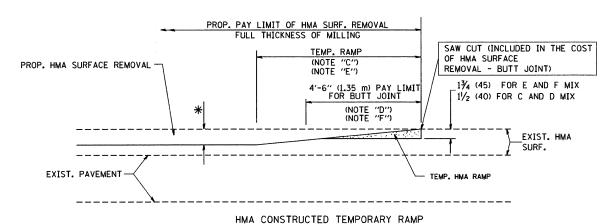
DATE: 1-14-2009

DRAWN BY JMT CHECKED BY WJV

K:\11225503\Structures\Burnham Ave.Over R.R. & River\Final



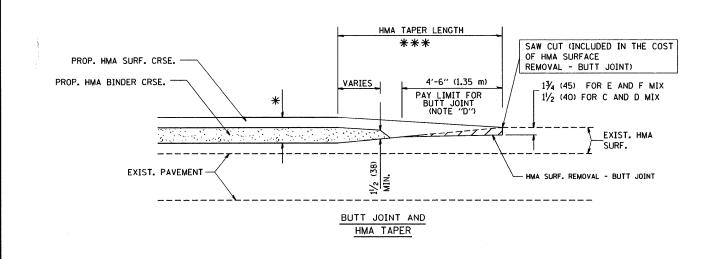
## OPTION 1



(FOR BUTT JOINT AND HMA TAPER SEE DETAIL BELOW)

# OPTION 2

# TYPICAL TEMPORARY RAMP

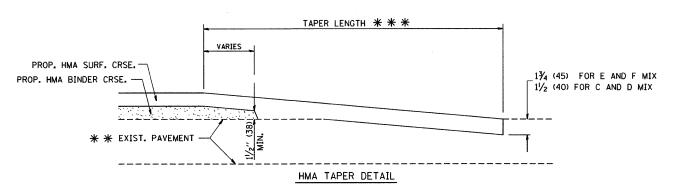


# TYPICAL BUTT JOINT AND HMA TAPER FOR MILLING AND RESURFACING

PROP. HMA OR PCC
SURFACE REMOVAL - BUTT JOINT
30'-0" (9.0 m) (NOTE "A")
15'-0" (4.5 m) (NOTE "B")
(NOTE "D")

\*\* \* EXIST. PAVEMENT

BUTT JOINT DETAIL



# TYPICAL BUTT JOINT AND HMA TAPER FOR RESURFACING ONLY

\* \* PC CONCRETE, HMA OR HMA RESURFACED PAVEMENT.

#### NOTES

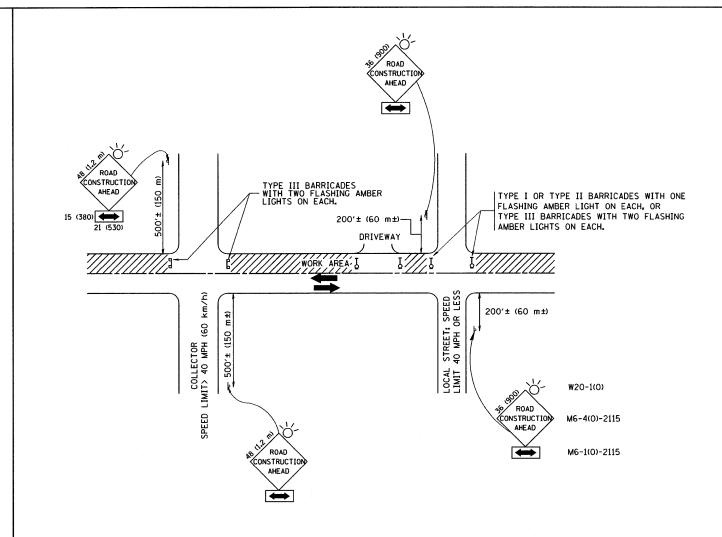
- A: MAINLINE ROADWAYS AND MAJOR SIDE ROADS.
- B: MINOR SIDE ROADS.
- C: THE TEMP. RAMP SHALL BE CONSTRUCTED IMMEDIATELY UPON REMOVAL OF THE EXISTING HMA SURFACE.
- D: THE BUTT JOINT SHALL BE CONSTRUCTED IMMEDIATELY PRIOR TO PLACING THE PROPOSED HMA COURSES.
- E: TAPER THE TEMP. RAMP AT A RATE OF 3'-O" (900 mm) PER 1 INCH (25 mm) OF MILLING THICKNESS.
- F: INSTALLATION AND REMOVAL OF THE 4'-6" (1.35 m) TEMP. RAMP IS INCLUDED IN COST OF HMA SURFACE REMOVAL BUTT JOINT
- G: SEE ARTICLE 406.08 AND 406.14 OF THE STANDARD SPECIFICATIONS FOR "HMA AND/OR PCC SURFACE REMOVAL, BUTT JOINT".
- \* SEE TYPICAL SECTIONS FOR MILLING THICKNESS.
- \*\* \*\* \* 20'-0" (6.1 m) PER 1 (25) RESURFACING (NOTE "A") 10'-0" (3.0 m) PER 1 (25) RESURFACING (NOTE "B")

#### BASIS OF PAYMENT:

THE BUTT JOINT WILL BE PAID FOR AT THE CONTRACT UNIT PRICE PER SOUARE YARD (SOUARE METER) FOR "HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT" OR FOR "PORTLAND CEMENT CONCRETE SURFACE REMOVAL- BUTT JOINT".

ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN.

				· · · · · · · · · · · · · · · · · · ·			
FILE NAME =	USER NAME = gaglianobt	DESIGNED - M. DE YONG	REVISED - R. SHAH 10-25-94		BUTT JOINT AND	F.A.U. SECTION	COUNTY TOTAL SHEET
W:\diststd\22x34\bd32.dgn		DRAWN -	REVISED - A. ABBAS 03-21-97	STATE OF ILLINOIS		294 1212.8-I-1	COOK 51 46
	PLOT SCALE = 50.0000 ' / IN.	CHECKED -	REVISED - M. GOMEZ 04-06-01	DEPARTMENT OF TRANSPORTATION	HMA TAPER DETAILS	BD400-05 BD32	CONTRACT NO. 60D74
	PLOT DATE = 1/4/2008	DATE - 06-13-90	REVISED - R. BORO 01-01-07		SCALE: NONE SHEET NO. 1 OF 1 SHEETS STA. TO STA.	FED. ROAD DIST. NO. 1   ILLINOIS FED.	AID PROJECT



TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS

#### NOTES:

- A. FOR NO LANE RESTRICTION ON THE SIDE ROAD OR DRIVEWAYS
- 1. SIDE ROAD WITH A SPEED LIMIT OF 40 MPH (60 km/h) OR LESS AS SHOWN ON THE DRAWING AND AS DIRECTED BY THE ENGINEER:
- d) ONE ROAD CONSTRUCTION AHEAD SIGN 36 x 36 (900x900) WITH A FLASHER AND FLAG MOUNTED ON IT APPROXIMATELY 200' (60 m) IN ADVANCE OF THE MAIN ROUTE.
- b) THE CLOSED PORTION OF THE MAIN ROUTE SHALL BE PROTECTED BY BLOCKING WITH TYPE I, TYPE II OR TYPE III BARRICADES, 1/3 OF THE CROSS SECTION OF THE CLOSED PORTION.
- 2. SIDE ROAD WITH A SPEED LIMIT GREATER THAN 40 MPH (60 km/h) AS SHOWN ON THE DRAWING AND AS DIRECTED BY THE ENGINEER:
- a) ONE ROAD CONSTRUCTION AHEAD SIGN 48  $\times$  48 (1.2 m  $\times$  1.2 m) WITH A FLASHER MOUNTED ON 1T APPROXIMATELY 500' (150 m) IN ADVANCE OF THE MAIN ROUTE.
- b) THE CLOSED PORTION OF THE MAIN ROUTE SHALL BE PROTECTED BY BLOCKING WITH TYPE III BARRICADES, 1/2 OF THE CROSS SECTION OF THE CLOSED PORTION.
- 3. WHEN THE SIDE ROAD LIES BETWEEN THE BEGINNING OF THE MAINLINE SIGNING AND THE WORK ZONE, A SINGLE HEADED ARROW (MG-1) SHALL BE USED IN LIEU OF THE DOUBLE HEADED ARROW (MG-4).

SCALE: NONE

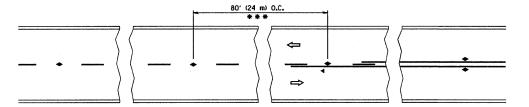
- B. FOR A LANE CLOSURE ON A SIDE ROAD OR DRIVEWAY:
- USE APPLICABLE PORTIONS OF THE TYPICAL APPLICATION OF TRAFFIC CONTROL DEVICES (STD. 701501, STD. 701606 OR THE APPROPRIATE STANDARD). THE SPACING OF SIGNS AND BARRICADES SHALL BE ADJUSTED FOR FIELD CONDITIONS AS DIRECTED BY THE ENGINEER. THE DIRECTIONAL ARROW SHALL BE COVERED OR REMOVED WHEN NO LONGER CONSISTENT WITH THE SIDE ROAD LANE CLOSURE.
- C. ADVANCE WARNING SIGNS ARE TO BE OMITTED ON DRIVEWAY UNLESS OTHERWISE NOTED.
- D. THE TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS SHALL BE INCIDENTAL TO THE COST OF SPECIFIED TRAFFIC CONTROL STANDARDS OR ITEMS.

All dimensions are in millimeters (inches) unless otherwise shown.

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

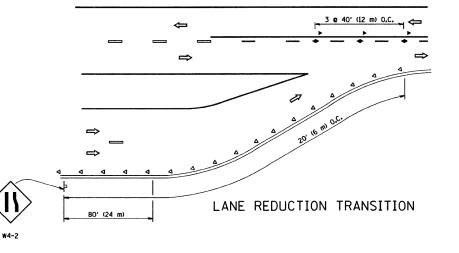
TRAFFIC CONTROL AND PROTECTION FOR
SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS

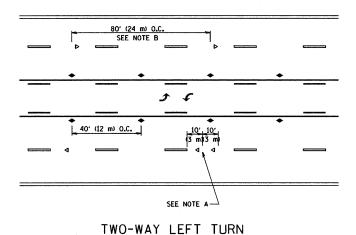
SHEET NO. 1 OF 1 SHEETS STA.



\*\*\* REDUCE TO 40' (12 m) O.C. ON CURVES WITH POSTED OR ADVISORY SPEED 45 M.P.H. (70 km/h) OR LESS.

TWO-LANE/TWO-WAY





80' (24 m) 0.C.

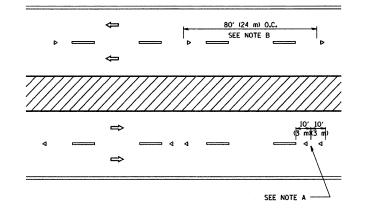
SEE NOTE B

40' (12 m) 0.C.

SEE NOTE A

SEE NOTE A

MULTI-LANE/UNDIVIDED



MULTI-LANE/DIVIDED

#### GENERAL NOTES

- 1. MARKERS USED WITH DASHED LINES SHALL BE CENTERED IN THE GAP BETWEEN SEGMENTS.
- 2. MARKERS USED ADJACENT TO SOLID LINES SHALL BE OFFSET 2 TO 3 (50 TO 75) TOWARD TRAFFIC AS SHOWN.
- 3. MARKERS THROUGH TANGENTS LESS THAN 500' (150 m) IN LENGTH BETWEEN CURVES SHALL BE INSTALLED AT THE LESSER OF THE TWO CURVE SPACINGS.

#### LANE MARKER NOTES

- B. REDUCE TO 40' (12 m) O.C. ON CURVES WHERE ADVISORY SPEEDS ARE 10 M.P.H (20 km/h) LOWER THAN POSTED SPEEDS.
- A. USE DOUBLE LANE LINE MARKERS SPACED AS SHOWN.

#### SYMBOLS

YELLOW STRIPE

WHITE STRIPE

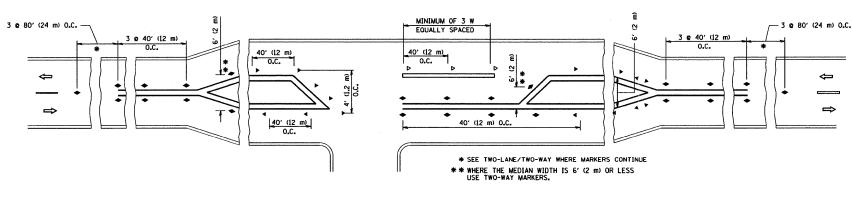
- ONE-WAY AMBER MARKER
- ONE-WAY CRYSTAL MARKER (W/O)
- TWO-WAY AMBER MARKER

## DESIGN NOTES

1. DOUBLE LANE LINE MARKERS SHALL BE USED UNLESS SPECIFIED OTHERWISE.

\_\_\_\_\_\_\_

- EXCEPT AS SHOWN ON THE LANE REDUCTION TRANSITION AND FREEWAY EXIT RAMP DETAIL, MARKERS ARE NOT TO BE SPECIFIED ON RIGHT EDGE LINES.
- 3. THE EXACT MARKER LIMITS, SPACING, AND COLOR SHOULD BE INCLUDED IN THE PLANS.
- MARKERS SHOULD NOT BE USED ALONGSIDE CURBS EXCEPT FOR EXTREMELY SHORT SECTIONS OF CURBS WHERE NOT MORE THAN TWO MARKERS WOULD BE INVOLVED.

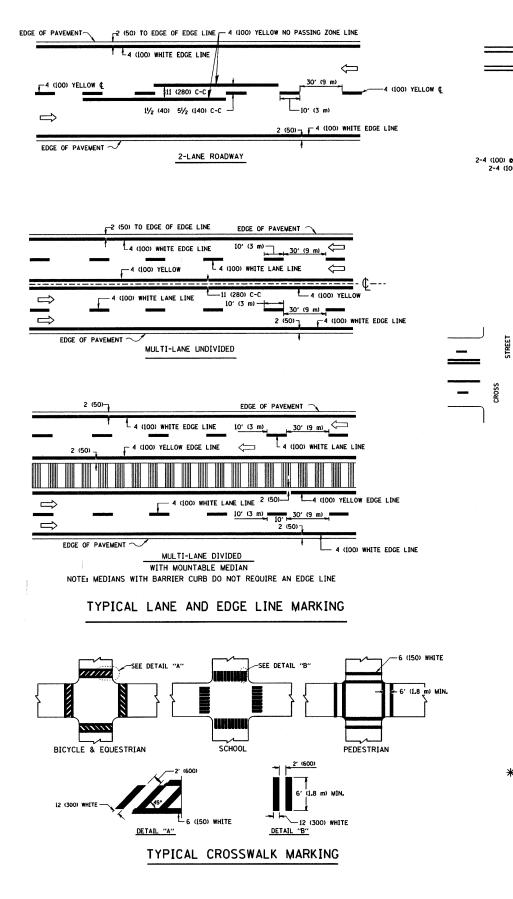


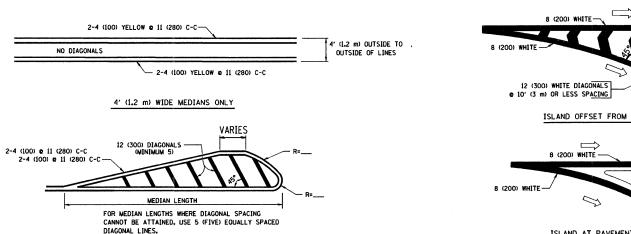
LEFT TURN

All dimensions are in inches (millimeters) unless otherwise shown.

COUNTY TOTAL SHEET NO.

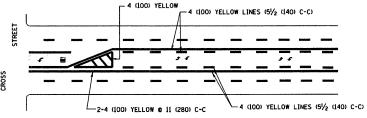
COOK 51 48 FILE NAME = JSER NAME = gaglianobt DESIGNED -REVISED - T. RAMMACHER 09-19-94 SECTION TYPICAL APPLICATIONS v:\diststd\22×34\tcl1.dgn REVISED - T. RAMMACHER 03-12-99 **STATE OF ILLINOIS** 1212.8-I-1 RAISED REFLECTIVE PAVEMENT MARKERS (SNOW-PLOW RESISTANT) PLOT SCALE = 50.000 '/ IN. CHECKED -REVISED - T. RAMMACHER 01-06-00 **DEPARTMENT OF TRANSPORTATION** CONTRACT NO. 60D74 SHEET NO. 1 OF 1 SHEETS STA. DATE PLOT DATE = 1/4/2008 REVISED



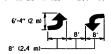


DIAGONAL LINE SPACING: 50' (15 m) C-C (LESS THAN 30MPH (50 km/h))
75' (25 m) C-C 30MPH (50 km/h) TO 45MPH (70 km/h))
150' (45 m) C-C (MORE THAN 45MPH (70 km/h))

## MEDIANS OVER 4' (1.2 m) WIDE

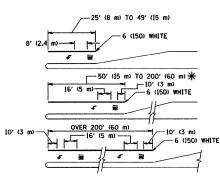


A MINIMUM OF TWO PAIRS OF TURN ARROWS SHALL BE USED, WHITE IN COLOR, ADDITIONAL PAIRS SHALL BE PLACED AT 200' (60 m) TO 300' (90 m) INTERVALS.



MEDIAN WITH TWO-WAY LEFT TURN LANE

## TYPICAL PAINTED MEDIAN MARKING

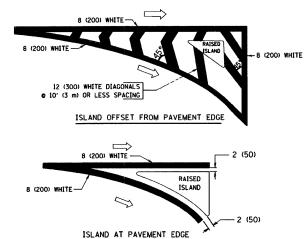


FULL SIZE LETTERS 8' (2.4 m) AND ARROWS SHALL BE USED.  $\P$  AREA = 15.6 SO. FT. (1.5 m<sup>2</sup>)  $\P$  AREA = 20.8 SO. FT. (1.9 m<sup>2</sup>)

\* TURN LANES IN EXCESS OF 400' (120 m) IN LENGTH MAY HAVE AN ADDITIONAL SET OF ARROW - "ONLY" INSTALLED MIDWAY BETWEEN THE OTHER TWO SETS OF ARROW - "ONLY".

TYPICAL LEFT (OR RIGHT) TURN LANE

#### TYPICAL TURN LANE MARKING



#### TYPICAL ISLAND MARKING

TYPE OF MARKING	WIDTH OF LINE	PATTERN	COLOR	SPACING / REMARKS
CENTERLINE ON 2 LANE PAVEMENT	4 (100)	SKIP-DASH	YELLOW	10' (3 m) LINE WITH 30' (9 m) SPACE
CENTERLINE ON MULTI-LANE UNDIVEDED PAVEMENT	2 @ 4 (100)	SOLID	YELLOW	11 (280) C-C
NO PASSING ZONE LINES: FOR ONE DIRECTION FOR BOTH DIRECTIONS	4 (100) 2 @ 4 (100)	SOLID SOLID	YELLOW YELLOW	5½ (140) C-C FROM SKIP-DASH CENTERLINE 11 1280) C-C OMIT SKIP-DASH CENTERLINE BETWEEN
LANE LINES	4 (100) 5 (125) ON FREEWAYS	SKIP-DASH SKIP-DASH	WHITE WHITE	10' (3 m) LINE WITH 30' (9 m) SPACE
DOTTED LINES (EXTENSIONS OF CENTER, LANE OR TURN LANE MARKINGS)	SAME AS LINE BEING EXTENDED	SKIP-DASH	SAME AS LINE BEING EXTENDED	2' (600) LINE WITH 6' (1.8 m) SPACE
EDGE LINES	4 (100)	SOLID	YELLOW-LEFT WHITE-RIGHT	OUTLINE MOUNTABLE MEDIANS IN YELLOW: EDGE LINES ARE NOT USED NEXT TO BARRIER CURB
TURN LANE MARKINGS	6 (150) LINE: FULL SIZE LETTERS & SYMBOLS (8' (2.4m))	SOLID	WHITE	SEE TYPICAL TURN LANE MARKING DETAIL
TWO WAY LEFT TURN MARKING	2 @ 4 (100) EACH DIRECTION	SKIP-DASH AND SOLID	YELLOW	10' (3 m) LINE WITH 30' (9 m) SPACE FOR SKIP-DASH; 5½ (140) C-C BETWEEN SOLID LINE AND SKIP-DASH LINE
	8' (2.4m) LEFT ARROW	IN PAIRS	WHITE	SEE TYPICAL TWO-WAY LEFT TURN MARKING DETAIL
CROSSWALK LINES (PEDESTRIAN) A. DIAGONALS (BIKE & EQUESTRIAN) B. LONGITUDINAL BARS (SCHOOL)	2 <b>e</b> 6 (150) 12 (300) <b>e</b> 45° 12 (300) <b>e</b> 90°	SOLID SOLID SOLID	WHITE WHITE WHITE	NOT LESS THAN 6' (1.8 m) APART 2' (600) APART 2' (500) APART SEE TYPICAL CROSSWALK MARKING DETAILS.
STOP LINES	24 (600)	SOLID	WHITE	PLACE 4' (1.2 m) IN ADVANCE OF AND PARALLEL TO CROSSWALK, IF PRESENT. OTHERWISE, PLACE AT DESIRED STOPPING POINT, PARALLEL TO CROSSROAD CENTERLINE, WHERE POSSIBLE
PAINTED MEDIANS	2 @ 4 (100) WITH 12 (300) DIAGONALS @ 45°  NO DIAGONALS USED FOR 4' (1.2 m) WIDE MEDIANS	SOLID	YELLOW: TWO WAY TRAFFIC WHITE: ONE WAY TRAFFIC	11 (280) C-C FOR THE DOUBLE LINE SEE TYPICAL PAINTED MEDIAN MARKING.
GORE MARKING AND CHANNELIZING LINES	8 (200) WITH 12 (300) DIAGONALS & 45°	SOLID	WHITE	DIAGONALS: 15' (4.5 m) C-C (LESS THAN 30MPH (50 km/h)) 20' (6 m) C-C 30MPH (50 km/h) TO 45MPH (70 km/h)) 30' (9 m) C-C (0VER 45MPH (70 km/h))
RAILROAD CROSSING	24 (600) TRANSVERSE LINES: "RR" IS 6' (1.8 m) LETTERS: 16 (400) LINE FOR "X"	SOLID	WHITE	SEE STATE STANDARD 780001 AREA OF: "R"=3.6 SQ. FT. (0.33 m <sup>2</sup> ) EACH "X"=54.0 SQ. FT. (5.0 m <sup>2</sup> )
SHOULDER DIAGONALS	12 (300) <b>a</b> 45°	SOLID	WHITE - RIGHT YELLOW - LEFT	50' (15 m) C-C (LESS THAN 30MPH (50 km/h)) 75' (25 m) C-C (30 MPH (50 km/h) TO 45MPH (70 km/h)) 150' (45 m) C-C (0VER 45MPH (70 km/h))

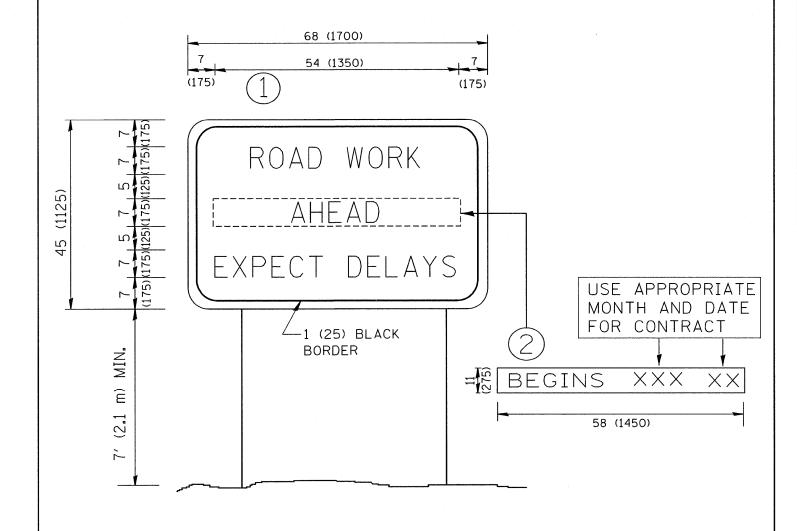
FOR FURTHER DETAILS ON PAVEMENT MARKING REFER TO STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION AND STATE STANDARD 780001.

All dimensions are in inches (millimeters) unless otherwise shown.

FILE NAME =	USER NAME = gaglianobt	DESIGNED - EVERS	REVISED -T. RAMMACHER 10-27-94
W:\diststd\22x34\tcl3.dgn		DRAWN -	REVISED -A. HOUSEH 10-09-96
	PLOT SCALE = 50.000 '/ IN.	CHECKED	REVISED -A. HOUSEH 10-17-96
	PLOT DATE = 1/4/2008	DATE - 03-19-90	REVISED -T. RAMMACHER 01-06-00

STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION** 

		1	DISTRICT ON	IE		F.A.U. RTE.	SECTION	COUNTY TOTAL SHEET SHEETS NO.		
					ne [	294	1212.8-I-1	COOK	51	49
TYPICAL PAVEMENT MARKINGS						TC-13	CONTRACT	NO. 60	D74	
SCALE: NONE	SHEET NO. 1	OF 1	SHEETS	STA.	TO STA.	FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

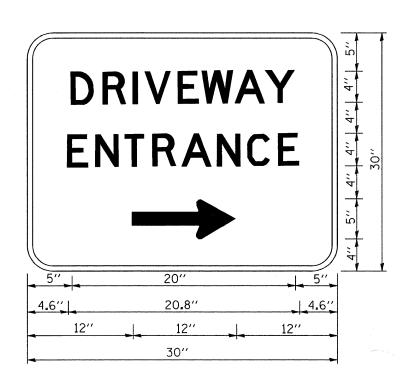


# NOTES:

- 1. USE BLACK LETTERING ON ORANGE BACKGROUND.
- 2. ERECT SIGNS IN ADVANCE OF THE LOCATION FOR THE "ROAD CONSTRUCTION AHEAD" SIGN AT LOCATIONS AS DIRECTED BY THE ENGINEER.
- 3. ERECT SIGN (1) WITH INSTALLED PANEL (2) ONE WEEK PRIOR TO THE START OF CONSTRUCTION.
- 4. REMOVE PANEL 2 SOON AFTER THE START OF CONSTRUCTION.
- 5. SEE SPECIAL PROVISION FOR "TEMPORARY INFORMATION SIGNING" FOR ADDITIONAL INFORMATION.
- 6. ONE SIGN ASSEMBLY EQUALS 25.70 SQ. FT. (2.3 SQ. M.)
- 7. SHALL BE PAID FOR AS TEMPORARY INFORMATION SIGNING.

ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN.

FILE NAME =	USER NAME = gaglianobt	DESIGNED -	REVISED - R. MIRS 09-15-97			ARTERIAL RO	)AD	F.A.U. RTE.	SECTION		TOTAL SHEET
W:\diststd\22x34\tc22.dgn		DRAWN -	REVISED - R. MIRS 12-11-97	STATE OF ILLINOIS				294	1212.8-I-1	соок	51 50
	PLOT SCALE = 50.000 '/ IN.	CHECKED -	REVISED -T. RAMMACHER 02-02-99	DEPARTMENT OF TRANSPORTATION		INFORMATION	SIGN		TC-22	CONTRACT	NO. 60D74
	PLOT DATE = 1/4/2008	DATE -	REVISED - C. JUCIUS 01-31-07		SCALE: NONE	SHEET NO. 1 OF 1 SHEETS	STA. TO STA.	FED. ROAL	D DIST. NO. 1   ILLINOIS FED. A	ID PROJECT	



3.0" RADIUS, 0.5" BORDER, WHITE ON GREEN; REFLECTORIZED "DRIVEWAY" D; "ENTRANCE" D; STANDARD ARROW CUSTOM 12.0" × 5.0"

## NOTES:

- 1. HALF OF THE SIGNS WILL REQUIRE A LEFT HAND FACING ARROW.
- 2. TWO SIGNS SHALL BE USED AT EACH COMMERCIAL ENTRANCE PLACED BACK-TO-BACK: ONE WITH A RIGHT HAND ARROW (SHOWN) SHALL BE PLACED ON THE NEAR RIGHT SIDE THE DRIVEWAY AND ONE WITH A LEFT HAND ARROW SHALL BE PLACED ON THE FAR LEFT SIDE OF THE DRIVEWAY.
- 3. SIGNS TO BE PAID FOR AS ITEM "TEMPORARY INFORMATION SIGNING".

FILE NAME =	USER NAME = gaglianobt	DESIGNED -	REVISED - C. JUCIUS 02-15-07
v:\diststd\22x34\tc26.dgn		DRAWN -	REVISED -
	PLOT SCALE = 50.000 '/ IN.	CHECKED -	REVISED -
	PLOT DATE = 1/4/2008	DATE -	REVISED -

STATE	0F	ILLINOIS
DEPARTMENT (	OF 1	<b>TRANSPORTATION</b>

DRIVEWAY ENTRANCE SIGNING					F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
				294	1212.8-I-1	COOK	51	51	
			<u> </u>			TC-26	CONTRACT	NO. 6	D74
CALE: NONE	SHEET NO. 1 OF	SHEETS	STA.	TO STA.	FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				