## **PROPOSED HIGHWAY PLANS**

**FAP 349 /US ROUTE 30 OVER RIVER STREET** SECTION 11 HB-I **BRIDGE DECK OVERLAY** PROJECT: ESP-0349 (0/3)
KENDALL COUNTY C-91-117-08

THIS IMPROVEMENT IS LOCATED IN THE VILLAGE OF MONTGOMERY

FOR INDEX OF SHEETS SEE SHEET NUMBER 2

TRAFFIC DATA

2005 ADT - 28600 POSTED SPEED LIMIT - 45 MPH

**US 30 OVER RIVER STREET** 

SN:047-0030(STA. 280 + 57.00) 3-SPAN PPC DECK BEAM BRIDGE ON PIERS AND CLOSED ABUTMENTS

> **IMPROVEMENT LOCATION** SN: 047-0030

FULL SIZE PLANS HAVE BEEN PREPARED USING STANDARD ENGINEERING SCALES. REDUCED SIZED PLANS WILL NOT CONFORM TO STANDARD SCALES. IN MAKING MEASUREMENTS ON REDUCED PLANS, THE ABOVE SCALES MAY BE USED.

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

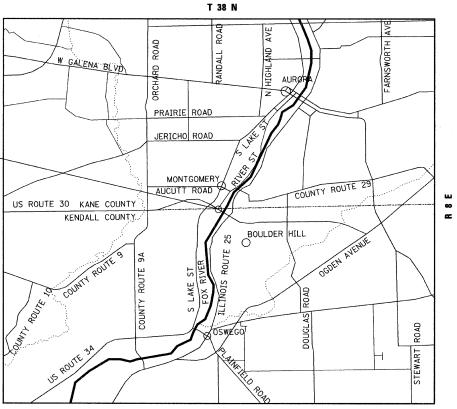
CONTRACT NO. 60D83

Ciorba Group, Inc.

REGISTRATION NUMBER

184-001016

CONSULTING ENGINEERS
SUITE 402, 5507 NORTH CUMBERLAND AVE CHICAGO, ILLINOIS 60656 :: (773) 775-4009



**OSWEGO TOWNSHIP** 

**LOCATION MAP** 5000' = 1"

GROSS AND NET LENGTH OF PROJECT = 1856 FT = 0.35 MI

F.A.P. RTE.	SECTION		COUNTY	TOTAL	SHEET NO.
349	11 HB-I		KENDALL	26	1
FED. R	DAD DIST. NO	ILLINOIS	CONTRACT	NO.	60D83

D-91-117-08







DEPARTMENT OF TRANSPORTATION DIVISION OF HIGHWAYS SUBMITTED JANUARY 8, 20 09 DEPUTY DIRECTOR OF HIGHWAYS, REGION ENGINEER

STATE OF ILLINOIS

PRINTED BY THE AUTHORITY OF THE STATE OF ILLINOIS

#### INDEX OF SHEETS

	_
SHEET NO	DESCRIPTION
1	TITLE
2	INDEX OF SHEETS, GENERAL NOTES AND STATE STANDARDS
3	SUMMARY OF QUANTITIES
4	ALIGNMENT & CONTROL POINTS
5	EXISTING CONDITIONS AND REMOVAL PLAN
6	PROPOSED ROADWAY PLAN
7-8	TRAFFIC CONTROL AND PROTECTION - STAGE 1
9-10	TRAFFIC CONTROL AND PROTECTION - STAGE 2
11-12	PAVEMENT MARKING PLAN
13	GENERAL PLAN AND ELEVATION
14	STAGE CONSTRUCTION DETAILS
15	TEMPORARY CONCRETE BARRIER
16	CONCRETE REMOVAL
17	ABUTMENT DETAILS
18	PARAPET REMOVAL AND REPLACEMENT
19	SUPERSTRUCTURE DETAILS
20	BAR SPLICER DETAILS
21	JOINT SYSTEM DETAILS
22	BUTT JOINT AND HMA TAPER DETAILS (BD-32)
23	TRAFFIC CONTROL AND PROTECTION AT SIDE ROADS, DRIVEWAYS, & ENTRANCES (TC-10)
24	TYPICAL APPLICATIONS RAISED REFLECTIVE PAVEMENT MARKERS (SNOW PLOW RESISTANT) (TC-11)
25	DISTRICT ONE TYPICAL PAVEMENT MARKINGS (TC-13)
26	ARTERIAL ROAD INFORMATION SIGN (TC-22)

#### STATE STANDARDS

000001- <i>05</i>	STANDARD SYMBOLS, ABBREVIATIONS, AND PATTERNS
606301- <i>04</i>	PC CONCRETE ISLANDS AND MEDIANS
701301 <b>- 03</b>	LANE CLOSURE, 2L, 2W, SHORT TIME OPERATIONS
701421 <b>- 02</b>	LANE CLOSURE, MULTILANE, DAY OPERATIONS ONLY FOR SPEEDS $\geq$ 45 MPH TO 55 MPH
701431- <i>05</i>	LANE CLOSURE, MULTILANE, UNDIV. WITH CROSSOVER, FOR SPEEDS $\geq$ 45 MPH TO 55 MPH
701901 <i>-01</i>	TRAFFIC CONTROL DEVICES

704001-05 TEMPORARY CONCRETE BARRIER

#### GENERAL NOTES

- 1. BEFORE STARTING ANY EXCAVATION, THE CONTRACTOR SHALL CALL "JULIE" AT 800-892-0123 OR 811 FOR FIELD LOCATIONS OF BURIED ELECTRIC, TELEPHONE, AND GAS FACILITIES. (48 HOUR NOTIFICATION IS REQUIRED)
- 2. 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. WHEN ARTIFICIAL LIGHTING IS USED IN NIGHT OPERATIONS THE CONTRACTOR SHALL EXERCISE THE UTMOST PRECAUTIONS IN PREVENTING ADVERSE VISIBILITY TO THE MOTORING PUBLIC AND ADJOINING RESIDENTIAL AREAS.
- 5. ALL DAMAGE TO EXISTING PAVEMENT MARKINGS OUTSIDE THE PAVEMENT MARKING LIMITS SHOWN ON THE PLANS SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE.
- 6. THE CONTRACTOR SHALL CONTACT THE DISTRICT ONE TRAFFIC CONTROL SUPERVISOR AT (847) 705-4470 A MINIMUM OF 72 HOURS PRIOR TO THE PLACEMENT OF ANY TRAFFIC CONTROL DEVICES.
- TWO WEEKS PRIOR TO PLACING PERMANENT PAVEMENT MARKINGS, CONTACT MS. CORA MATHIS, AREA TRAFFIC FIELD ENGINEER AT (815) 485-6475.
- 8. CHANGEABLE MESSAGE SIGNS SHALL BE PLACED IN ADVANCE OF THE PROJECT LIMITS AT LEAST ONE WEEK PRIOR TO LANE CLOSURE AND TEMPORARY TRAFFIC SIGNAL OPERATIONS.

#### COMMITMENTS

NON

#### HOT-MIX ASPHALT MIXTURE REQUIREMENTS

OPERATIONS	MIXTURE TYPE	AC TYPE	PERCENT AIR VOIDS
ROADWAY	HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N70 (IL 9.5 mm), 1 1/2"	PG 64-22	4% <b>©</b> 70 GYR
RESURFACING	LEVELING BINDER (MACHINE METHOD), N70 (IL 9.5 mm), 3/4" MINIMUM	PG 64-22*	4% @ 70 GYR
TEMPORARY	HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N50 (IL 9.5 mm), 1 1/2"	PG 64-22	4% <b>©</b> 50 GYR
PAVEMENT, 10"	HOT-MIX ASPHALT BINDER COURSE, IL-19.0mm, N50, 8 1/2"	PG 64-22*	4% @ 50 GYR

THE UNIT WEIGHT USED TO CALCULATE ALL HMA SURFACE MIXTURE QUANTITIES IS 112 LBS/SQ YD/IN.

 $\bullet$  WHEN RAP EXCEEDS 20%, THE NEW ASPHALT BINDER IN THE MIX SHALL BE PG 58-22.

Ciorba Group, Inc.	
5507 North Cumberland Avenue, Suite 402 Chicago, Illinois 60656 Tel. 773.775.4009 Fax 773.775.4014	_

USER NAME = wlancaster	DESIGNED	-	JCC	REVISED	-	Г
	DRAWN	No.	JCC	REVISED	-	]
PLOT SCALE = 1.0411 ' / IN.	CHECKED	-	MJL	REVISED	•	1
PLOT DATE = 1/13/2009	DATE	-	01/30/08	REVISED	-	1

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

	FAP 349 /US ROUTE 30			F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
INDEX OF	OVER RIVER STREET	OFNEDAL	NOTEO	349	11 HB-I	KENDALL	26	2
INDEX OF	SHEETS, STATE STANDARDS &	GENERAL	MOTES	1		CONTRACT	NO. 6	OD83
SCALE <sub>2</sub>	SHEET NO. OF SHEETS STA.	TO STA.		FED. R	OAD DIST. NO ILLINOIS FED. A	D PROJECT		

	SUMMARY OF QUANTITIES		URBAN 100% FED. TOTAL	CONSTRUCTION CODE		
CODE NO.	DESCRIPTION	UNIT	QUANTITY	ROADWAY 1000	BRIDGE X281-2A	
20200100	EARTH EXCAVATION	CU YD	175	175		
31101600	SUB-BASE GRANULAR MATERIAL, TYPE B 8"	SQ YD	500	500		
40600100	BITUMINOUS MATERIALS (PRIME COAT)	GALLON	45	45		
40600300	AGGREGATE (PRIME COAT)	TON	1	1		
40600635	LEVELING BINDER (MACHINE METHOD), N70	TON	30	30		
40600985	PORTLAND CEMENT CONCRETE SURFACE REMOVAL - BUTT JOINT	SQ YD	230	230		
40603340	HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N70	TON	45	45		
44000500	COMBINATION CURB AND GUTTER REMOVAL	FOOT	730	730		
44003100	MEDIAN REMOVAL	SQ FT	2,540	2,540		
50102400	CONCRETE REMOVAL	CU YD	18.5		18.5	
50157300	PROTECTIVE SHIELD	SQ YD	187		187	
50300255	CONCRETE SUPERSTRUCTURE	CU YD	20.1		20.1	
50300260	BRIDGE DECK GROOVING	SQ YD	405		405	
50300300	PROTECTIVE COAT	SQ YD	1,020		1,020	
50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	2,770		2,770	
50800515	BAR SPLICERS	EACH	34		34	
52000110	PREFORMED JOINT STRIP SEAL	FOOT	142		142	
60620000	CONCRETE MEDIAN, TYPE SB-6.24	SQ FT	4,325	4,325		
67000400	ENGINEER FIELD OFFICE, TYPE A	CAL MO	4	1	3	
67100100	MOBILIZATION	L SUM	1	0,2	0.8	
70101800	TRAFFIC CONTOL AND PROTECTION (SPECIAL)	L SUM	1	0.2	0.8	
70106800	CHANGEABLE MESSAGE SIGN	CAL MO	8	8		
70301000	WORK ZONE PAVEMENT MARKING REMOVAL	SQ FT	5,800	5,800		
70400100	TEMPORARY CONCRETE BARRIER	FOOT	725	725		
70400200	RELOCATE TEMPORARY CONCRETE BARRIER	F00T	725	725		
78008200	POLYUREA PAVEMENT MARKING TYPE I - LETTERS AND SYMBOLS	SQ FT	75	75		
78008210	POLYUREA PAVEMENT MARKING TYPE I - LINE 4"	FOOT	17,500	17,500		
78008230	POLYUREA PAVEMENT MARKING TYPE I - LINE 6"	FOOT	410	410		
78008250	POLYUREA PAVEMENT MARKING TYPE I - LINE 12"	FOOT	250	250		
78100100	RAISED REFLECTIVE PAVEMENT MARKER	EACH	30	30		
78100105	RAISED REFLECTIVE PAVEMENT MARKER (BRIDGE)	EACH	10	10		
78100300	REPLACEMENT REFLECTOR	EACH	270	270		
78200530	BARRIER WALL MARKERS, TYPE C	EACH	60	60		
78300100	PAVEMENT MARKING REMOVAL	SQ FT	6,400	6,400		
78300200	RAISED REFLECTIVE PAVEMENT MARKER REMOVAL	EACH	30	30		
X0322050	RAISED REFLECTIVE PAVEMENT MARKER, REFLECTOR REMOVAL	EACH	270	270		
	TEMPORARY INFORMATION SIGNING	SQ FT	78	78		
X0322256		SQ YD	485	485		
X0322256 X0325239	TEMPORARY PAVEMENT 10"	Juli		100		
	TEMPORARY PAVEMENT 10" WET REFLECTIVE TEMPORARY TAPE, TYPE III, 4 INCH	FOOT	17,300	17,300		
X0325239		_			390	
X0325239 X0325775	WET REFLECTIVE TEMPORARY TAPE, TYPE III, 4 INCH	FOOT	17,300		390 390	
X0325239 X0325775 X0322185	WET REFLECTIVE TEMPORARY TAPE, TYPE III, 4 INCH BRIDGE DECK LATEX CONCRETE OVERLAY, & 1/4 INCHES	FOOT SQ YD	17,300 390			
X0325239 X0325775 X0322185 Z0006201	WET REFLECTIVE TEMPORARY TAPE, TYPE III, 4 INCH  BRIDGE DECK LATEX CONCRETE OVERLAY, & 1/4 INCHES  BRIDGE DECK HYDRO-SCARIFICATION 1"	FOOT SQ YD SQ YD	17,300 390 390	17,300	390	
X0325239 X0325775 X0322185 Z0006201 Z0013798	WET REFLECTIVE TEMPORARY TAPE, TYPE III, 4 INCH  BRIDGE DECK LATEX CONCRETE OVERLAY, & 1/4 INCHES  BRIDGE DECK HYDRO-SCARIFICATION 1"  CONSTRUCTION LAYOUT	FOOT SQ YD SQ YD L SUM	17,300 390 390 1	17,300	390 0.8	
X0325239 X0325775 X0322185 Z0006201 Z0013798 Z0016001	WET REFLECTIVE TEMPORARY TAPE, TYPE III, 4 INCH  BRIDGE DECK LATEX CONCRETE OVERLAY, A 1/4 INCHES  BRIDGE DECK HYDRO-SCARIFICATION 1"  CONSTRUCTION LAYOUT  DECK SLAB REPAIR (FULL DEPTH, TYPE I)	FOOT SQ YD SQ YD L SUM SQ YD	17,300 390 390 1 1.1	17,300	390 0.8 1.1	

<sup>\*</sup> SPECIALTY ITEM

		Ciorba Group, Inc.	L
1		CONSULTING ENGINEERS	L
	に人プ	5507 North Cumberland Avenue, Suite 402	Γ
į		Chicago, Illinois 60656 Tel 773 775 4009 Fax 773 775 4014	r

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5.0	REVISED -
PLOT SCALE = 1.0411 // IN. CHECKED - MJL	REVISED
PLOT DATE = 1/13/2009 DATE - 01/30/08	REVISED ~

STATI	E OF	LLINOIS
DEPARTMENT	OF	TRANSPORTATION

FAP 349 / US ROUTE 30	F.A.P. RTE.	SEC-	TION	COUNTY	TOTAL		
OVER RIVER STREET	349	11 +	-iB−I	KENDALL	26	3	
SUMMARY OF QUANTITIES				CONTRACT	NO. 6	OD83	
CALE: SHEET NO. OF SHEETS STA.	TO STA.	FED. RO	DAD DIST. NO	ILLINOIS FED. AI	D PROJECT		

EXIST. CURVE US30-1 PI STA. = 261+84.82  $\Delta$  = 17° 32′ 46″ (RT) D = 1° 47′ 26″ R = 3,200.00′ T = 493.84′

E = 37.88' P.C. STA. = 256+90.98 P.T. STA. = 266+70.94

DESIGN SPEED = 45 MPH

L = 979.96'

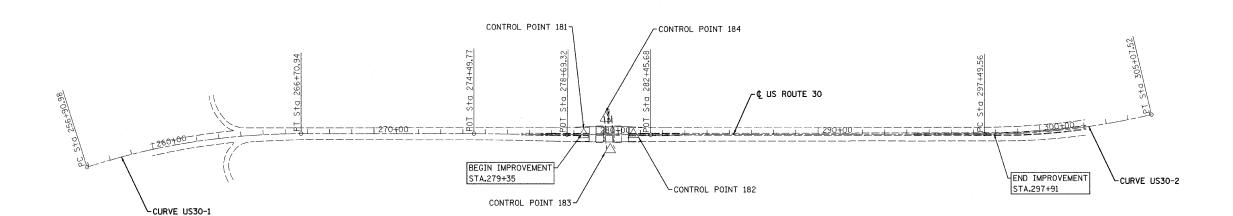
EXIST. CURVE US30-2
PI STA. = 301+30.22
\[ \Delta = 13\tilde{9}\tilde{9}\tilde{3}\tilde{6}\tilde{(LT)}\]
\[ D = 1\tilde{9}\tilde{4}\tilde{1}0''\]
\[ R = 3,300.00'\]
\[ T = 380.65'\]
\[ L = 757.96'\]
\[ E = 21.88'\]
\[ P.C. STA. = 297+49.56\]
\[ P.T. STA. = 305+07.52\]

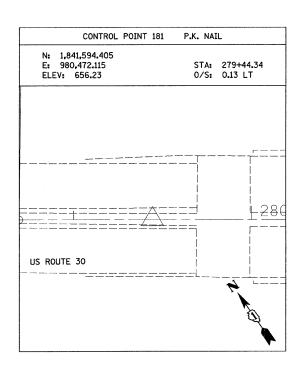
DESIGN SPEED = 45 MPH

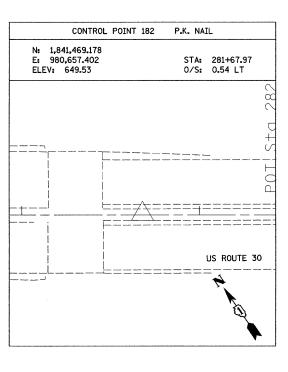
US ROUTE 30 CENTERLINE						
DESC	RIPTION	NORTHING	EASTING			
P.C.	256+90.98	1,842,731.694	978,539.144			
P.T.	266+70.94	1,842,313.239	979,421.034			
P.O.T.	274+49.77	1,841,875.950	980,065.520			
P.O.T.	278+69.32	1,841,636.420	980,409.965			
P.O.T.	282+45.68	1,841,425.102	980,721.407			
P.C.	297+49.56	1,840,581,732	981,966.552			
P.T.	305+07.52	1,840,232.154	982,637.202			

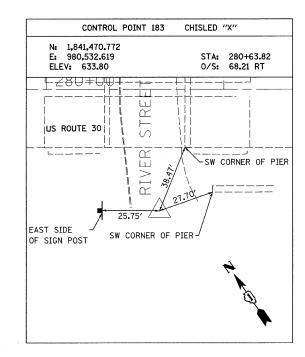
BENCHMARK

TOP NUT OF FIRST FIRE HYDRANT NORTH OF BRIDGE ON THE WEST SIDE OF RIVER STREET ELEV. 639.79









CONTROL POINT 184	P.K. NA	IL .
N: 1,841,601.190 E: 980,595.494 ELEV: 635.32		280+42.62 75.02 LT
SW CORNER OF INLET		
SE CORNER OF INLET	36'	
<i> </i>		<u> </u>
US ROUTE 30 NE	CORNER	OF PIER

1	Ciorba Group, Inc.	ŀ
Ē	CONSULTING ENGINEERS 5507 North Cumberland Avenue, Suite 402	ŀ
1	Chicago, Illinois 60656 Tel. 773.775.4009 Fax 773.775.4014	l

nc.	USER NAME = wlancaster	DESIGNED	-	JCC	REVISED	-	
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te 402	PLOT SCALE = 204.0233 ' / IN.	CHECKED	-	MJL	REVISED	-	
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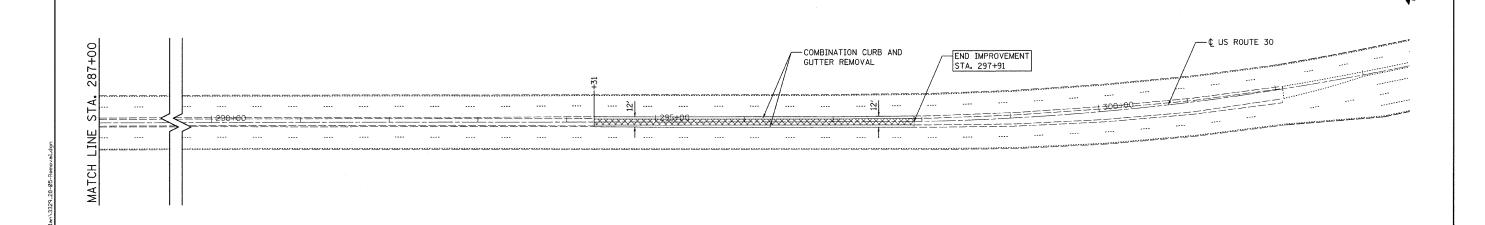
SHE ONT-00000

LEGEND

MEDIAN FRANCISCA

P.C.C. SURFASE REMOVAL

P.C.C. SURFAS



NOTE: EXISTING PAVEMENT CONSISTS OF 12" OF PORTLAND CEMENT CONCRETE PAVEMENT.



ıp, Inc.	USER NAME = wlancaster	DESIGNED	~	JCC	REVISED	-
ip, inc.		DRAWN	~	JCC	REVISED	···
enue, Suite 402	PLOT SCALE = 51.0058 '/ IN.	CHECKED	-	MJL	REVISED	-
x 773.775.4014	PLOT DATE = 1/13/2009	DATE	-	01/30/08	REVISED	-

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

FAP 349 / US ROUTE 30
OVER RIVER STREET
EXISTING CONDITIONS & REMOVAL PLAN
SCALE: 1"=50" SHEET NO. OF SHEETS STA. TO STA.

,

BEGIN IMPROVEMENT STA. 279+35 -¢ US ROUTE 30 +275+00 MATCH SN: 047-0030-LEGEND CONCRETE MEDIAN, TYPE SB-6.24 NOTE: SEE PROFILE GRADE ON SHEET 13 HOT - MIX ASPHALT SURFACE COURSE, MIX "D", N70, 1 1/2" LEVELING BINDER (MACHINE METHOD), N70 (IL-9.5mm), 3/4" -END IMPROVEMENT STA. 297+91 -¢ US ROUTE 30 MATCH FAP 349/US ROUTE 30 OVER RIVER STREET PROPOSED ROADWAY PLAN COUNTY TOTAL SHEET NO. KENDALL 26 6 Ciorba Group, Inc.

CONSULTING ENGINEERS

5507 North Cumberland Avenue, Suite 402
Chicago, Illinois 60858
Tel. 773.775.4009

PLOT SCALE = 51.8058 / J.

PLOT DATE = 1/13/2089 REVISED -SECTION STATE OF ILLINOIS DRAWN - JCC REVISED -CHECKED - MJL REVISED **DEPARTMENT OF TRANSPORTATION** 

SCALE4"=50' SHEET NO. OF SHEETS STA.

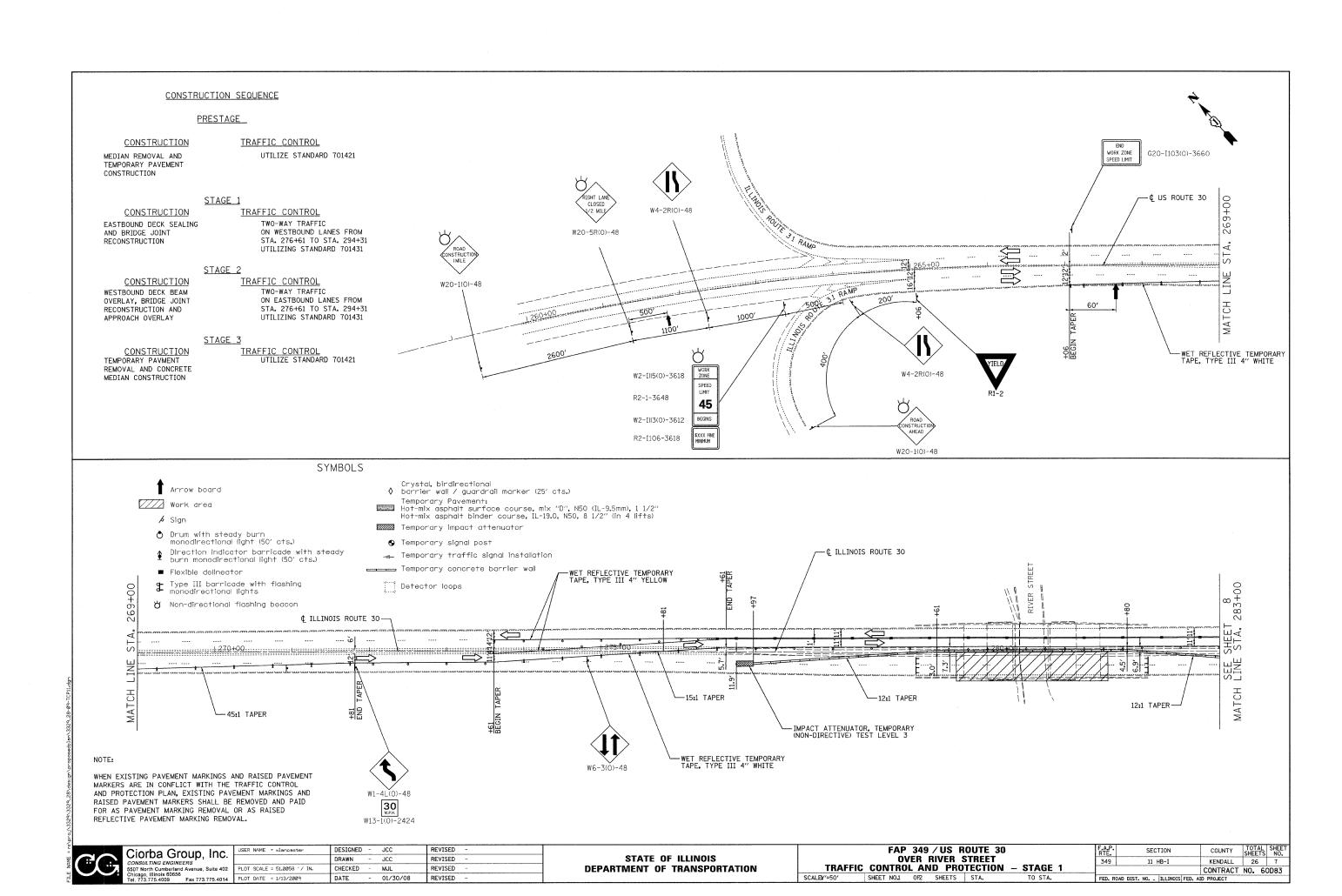
TO STA.

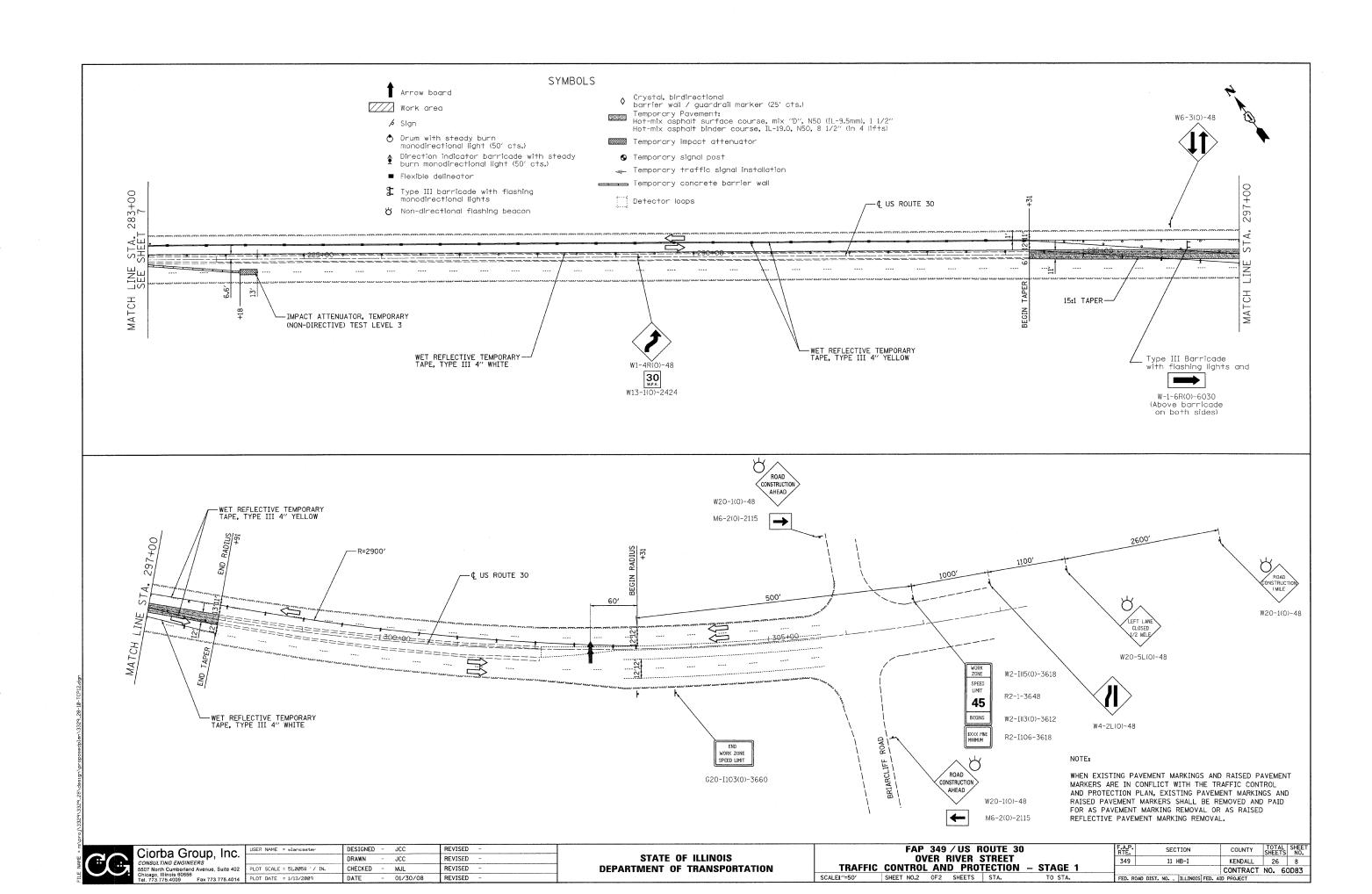
CONTRACT NO. 60D83

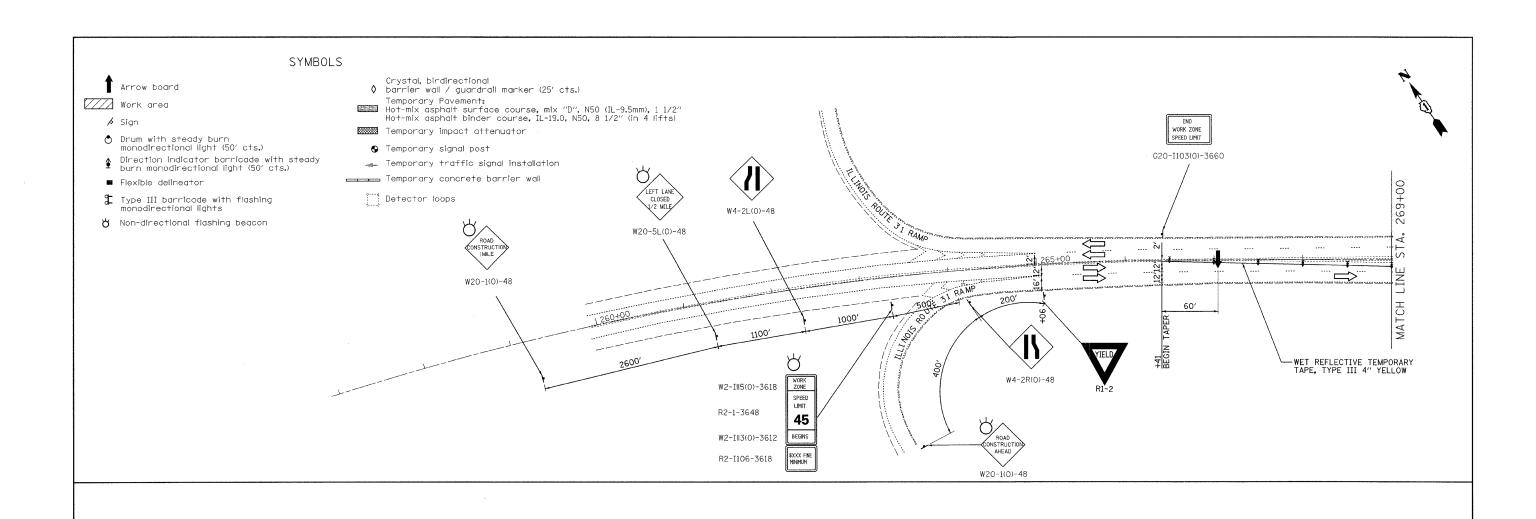
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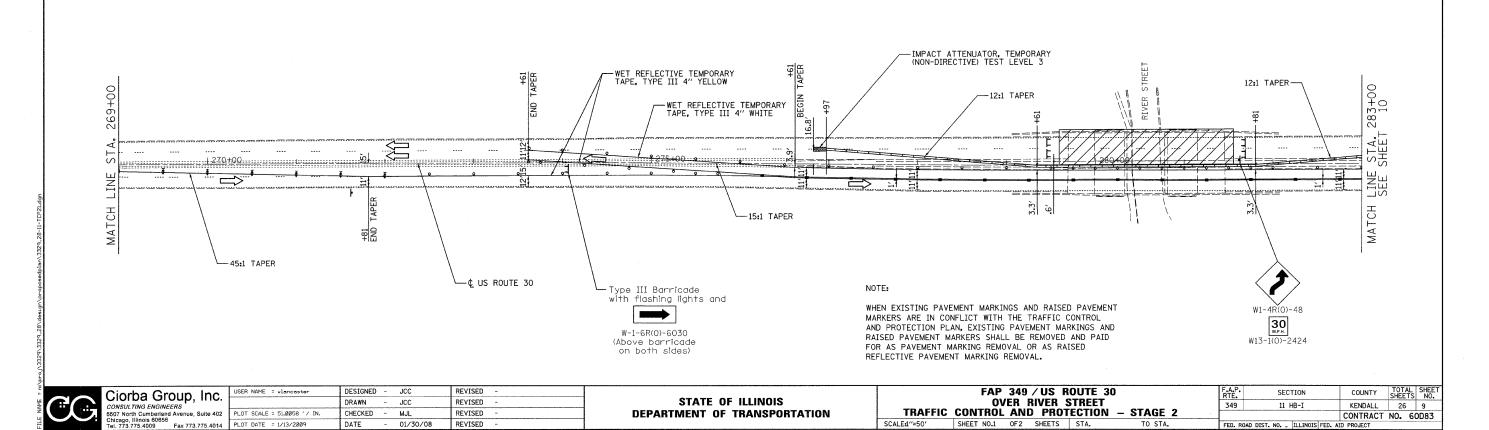
DATE - 01/30/08

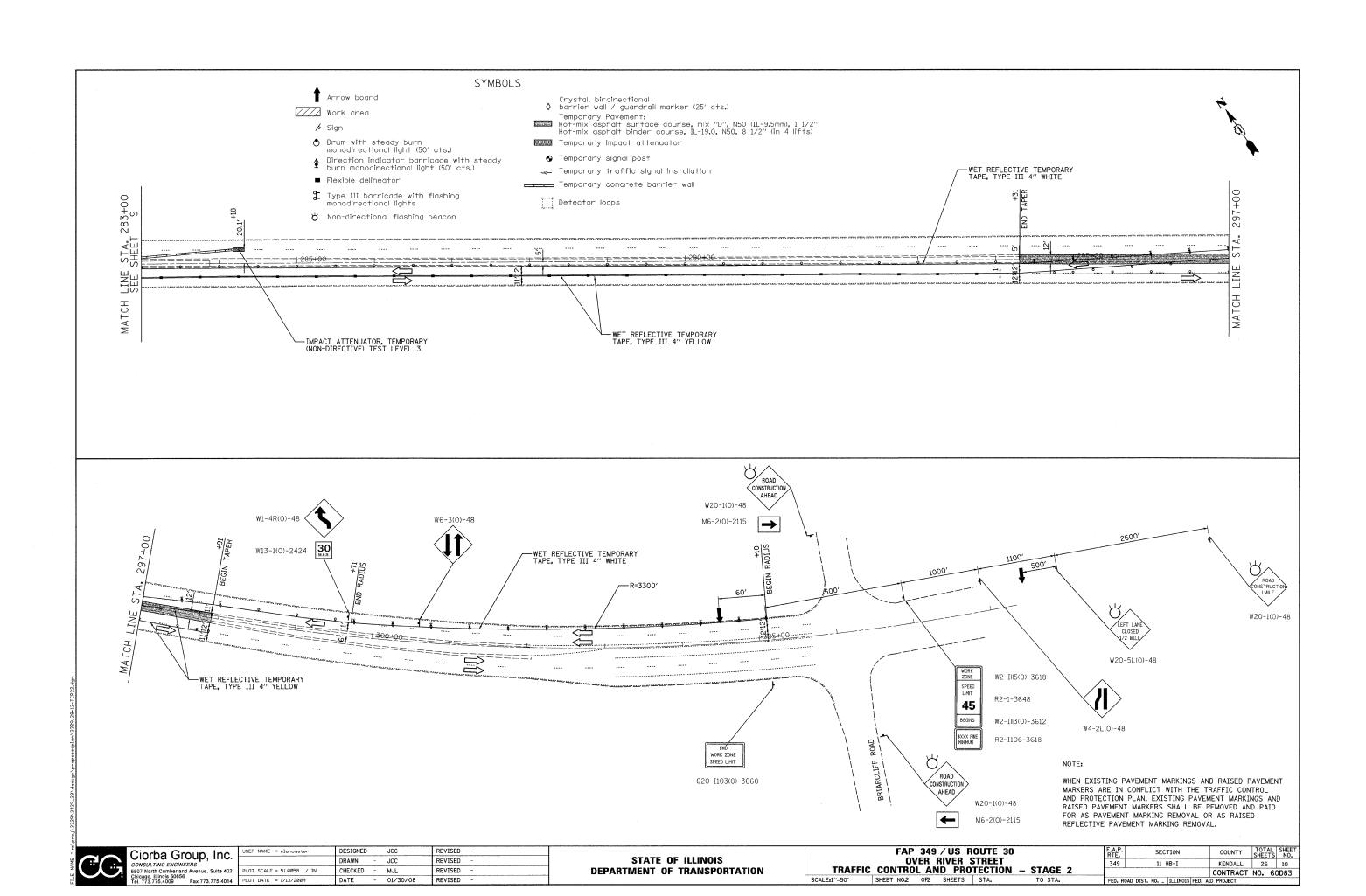
REVISED

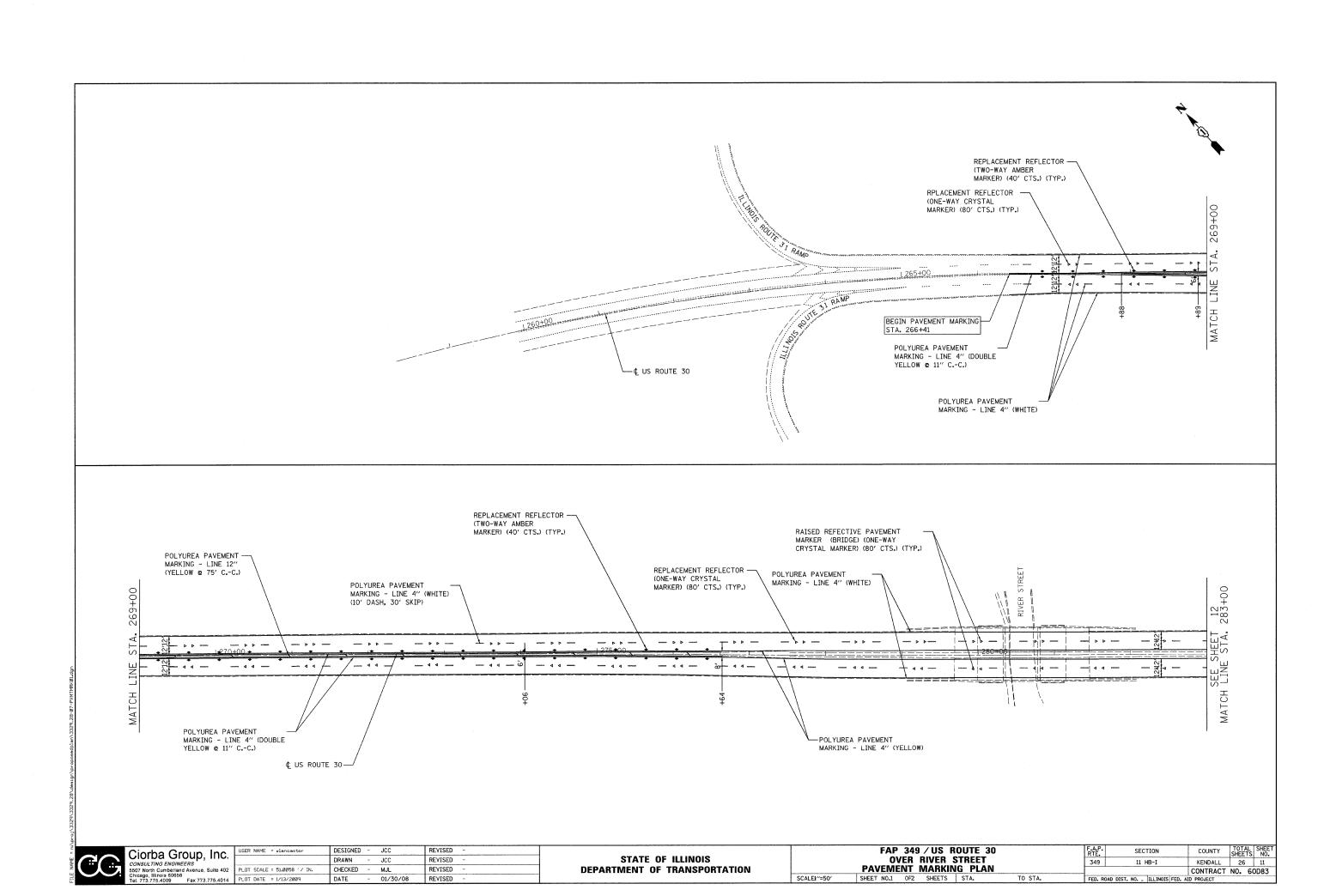


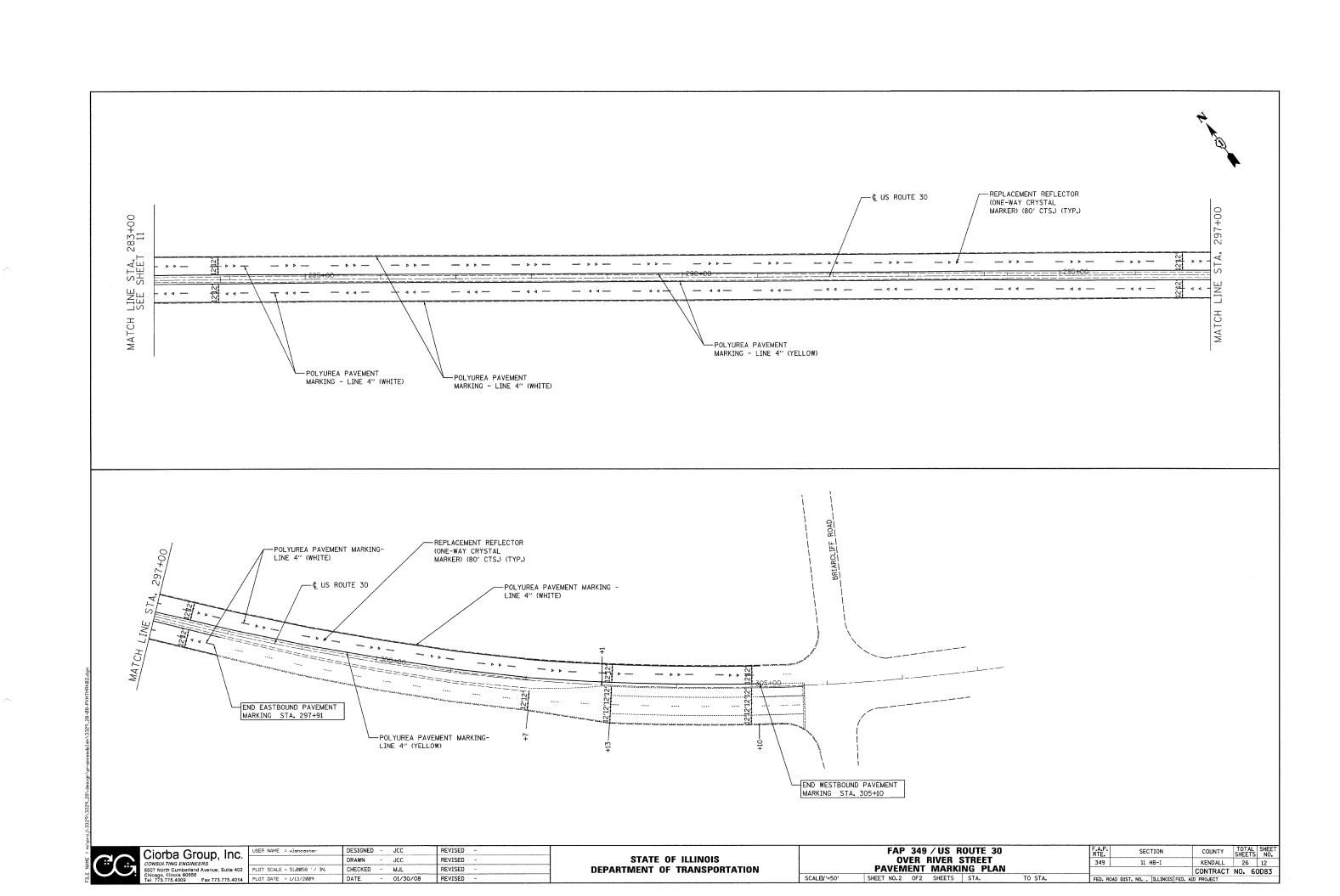


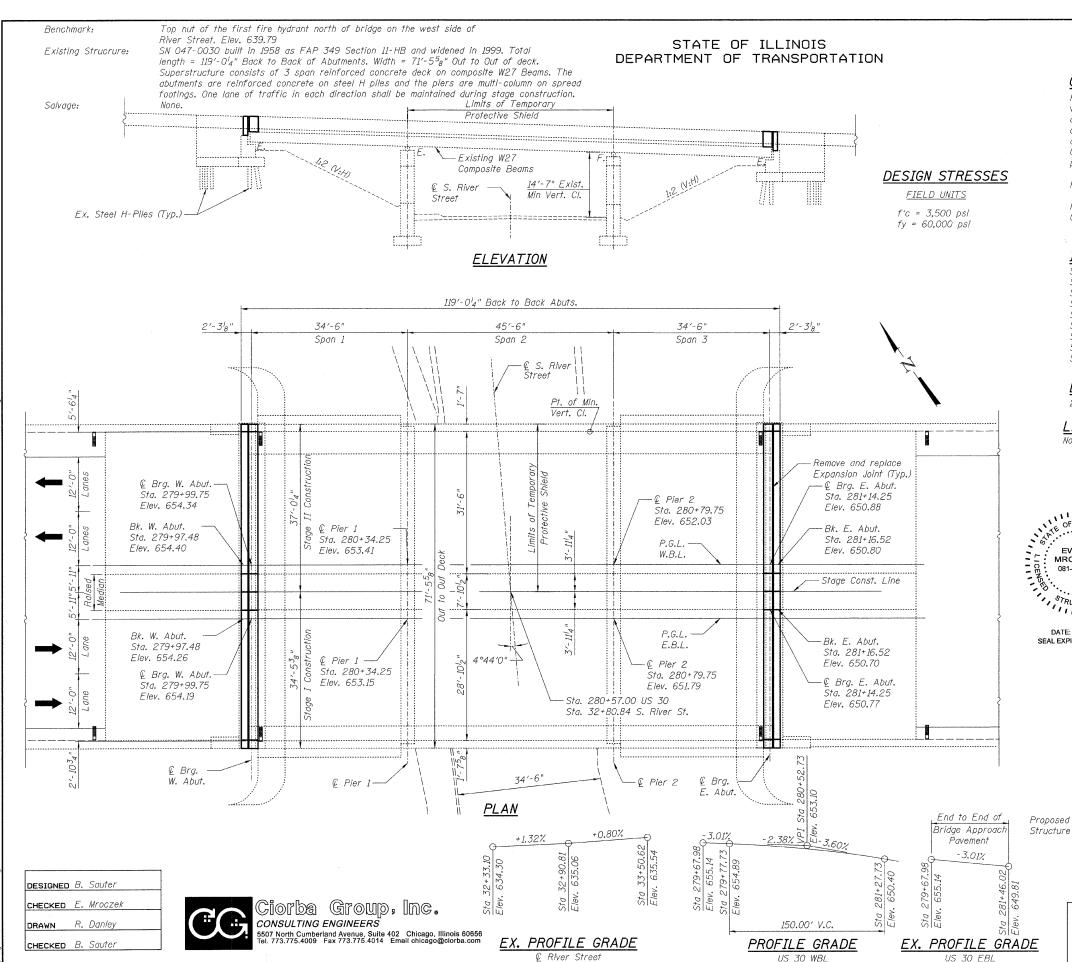












#### GENERAL NOTES

Plan dimensions and details relative to existing plans are subject to routine variations. The Contractor shall field verify existing dimensions and details affecting new construction and make necessary approved adjustments prior to construction or ordering of materials. Such variations shall not be cause for additional compensation for a change in scope of the work, however, the Contractor will be paid for the quantity actually furnished based upon the unit price bid for the work.

Reinforcement Bars designated (E) shall be epoxy coated.

Reinforcement bars shall conform to the requirements of ASTM A706 See special provisions. Grade 60

#### INDEX OF SHEETS

- S1. General Plan & Elevation
- S2. Stage Construction Details
- S3. Temp. Concrete Barrier
- S4. Concrete Removal
- S5. Abutment Details
- S7. Superstructure Details
- S8. Bar Splicer Details
- S9. Joint System Details

#### SCOPE OF WORK

- 1. Install Protective Shield
- 2. Hydroscarify deck surface (WB Lanes only)
- 3. Full depth repairs (WB Lanes only)
- 4. Reconstruct Transverse Joints
- 5. Place Latex Concrete Overlay (WB Lanes only)
- S6. Parapet Removal & Replacement 6. Sawcut Groove Deck Surface (WB Lanes only)
  - 7. Protective Coat on WB & EB lanes
  - 8. Bituminous Overlay both Approaches (WB Lanes only)

#### DESIGN SPECIFICATIONS

2002 AASHTO Standard Specfications

#### *LAST DELAMINATION SURVEY*

#### TOTAL BILL OF MATERIAL



ITEM	UNIT	QUANTITY
Concrete Removal	Cu. Yd.	18.5
Protective Shield	Sq. Yd.	187
Concrete Superstructure	Cu.Yd.	20.1
Bridge Deck Grooving	Sq.Yd.	405
Protective Coat	Sq.Yd.	1,020
Reinforcement Bars, Epoxy Coated	Pound	2,770
Bar Splicers	Each	34
Preformed Joint Strip Seal	Foot	142
Bridge Deck Latex Concrete Overlay, 2 1/2 inches	Sq.Yd.	390
Bridge Deck Hydro-Scarification 1"	Sq.Yd.	390
Deck Slab Repair (Full Depth, Type I)	Sq.Yd.	1.1
Deck Slab Repair (Full Depth, Type II)	Sq.Yd.	36.7

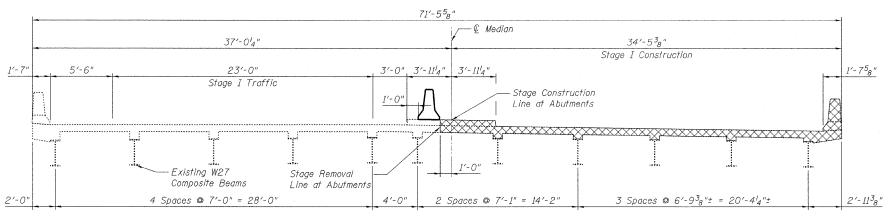
<sup>\*</sup> Special Provision



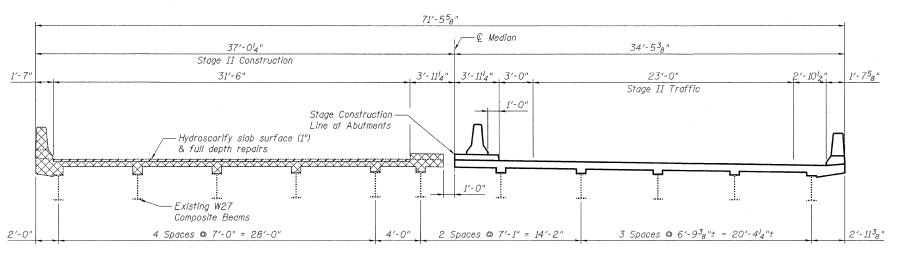
GENERAL PLAN AND ELEVATION US 30 OVER SOUTH RIVER STREET STA. 280+57.0 S.N. 047-0030

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Γ ΝΟ. <i>S1</i>	F.A.P. RTE.		SEC	TION		COUN	ITY	TOTAL	SHEE NO.	
	349		11 HE		HB-I		ALL	26	13	
HEETS						CONTR	RACT	NO.	60D83	
	FED. RO	DAD DIST.	NO.	ILLINOIS	FED.	AID PROJEC	T			

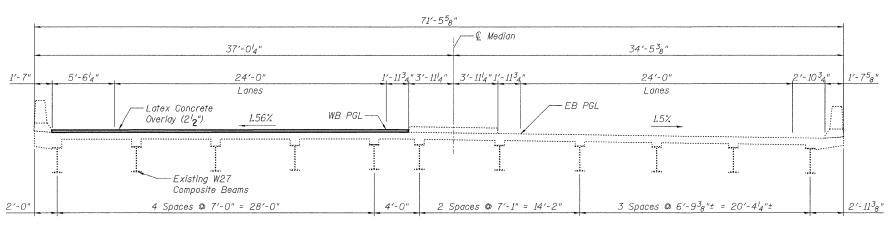
SHEET 59 SH



#### STAGE 1 CONSTRUCTION At expansion joint looking East



#### STAGE 2 CONSTRUCTION At expansion joint looking East



#### LEGEND:

Concrete Removal See note 3

#### NOTES:

- 1. Stage I Construction work includes removal and replacement of expansion joints on EB Lanes at both abutments, Stage II Construction includes removal of expansion joint on WB lanes at both abutments.
- 2. See Sheet S3 for Temporary Concrete Barrier Details.
- 3. Concrete deck and parapet removal limited to 2'-0" from the ends of deck see Sheet S4.

STAGE CONSTRUCTION DETAILS US 30 OVER SOUTH RIVER STREET STA. 280+57.0 S.N. 047-0030

STAGE 2 CONSTRUCTION Typical deck section looking East

CONSULTING	Group; engineers	
5507 North Cumber	land Avenue, Suite 40	2 Chicago, Illinois 60656
Tel. 773.775.4009	Fax 773.775.4014 E	mail chicago@ciorba.com

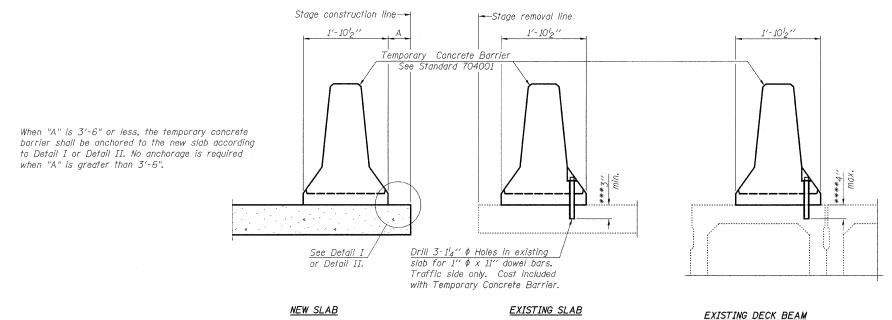
TOTAL SHEET NO. SECTION COUNTY SHEET NO. S2 349 11 HB-I KENDALL 26 14 S9 SHEETS CONTRACT NO. 60D83 FED. ROAD DIST. NO. | ILLINOIS FED. AID PROJECT

DESIGNED B. Sauter

DRAWN R. Danley

CHECKED B. Sauter

CHECKED E. Mroczek



#### <u>NOTES</u>

Detail I - With Bar Splicer or Couplers: Connect one (I) 1''x7''x10'' steel  $f_c$  to the top layer of couplers with  $2^{-5}g''$   $\phi$  bolts screwed to coupler at approximate  $f_c$  of each barrier panel.

Detail II - With Extended Reinforcement Bars:

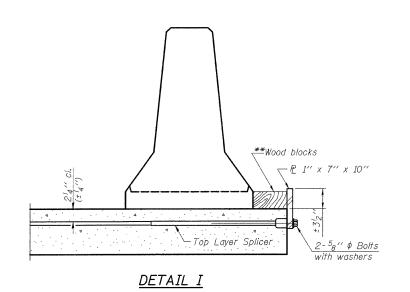
Connect one (1) 1"x7"x 10" steel P to the concrete slab or concrete wearing surface with 2-58" \$\phi\$ Expansion Anchors or cast in place inserts spaced between the top layer of reinforcement at approximate \$\mathbb{L}\$ of each barrier panel.

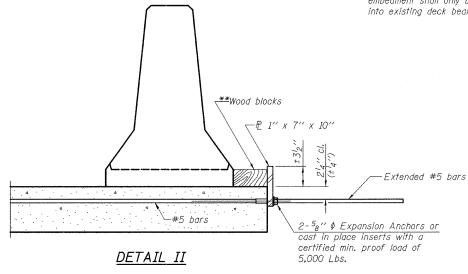
Cost of anchorage is included with Temporary Concrete Barrier.
The 1" x 7" x 10" plate shall not be removed until stage II construction forms and all reinforcement bars are in place and the concrete is ready to be placed.

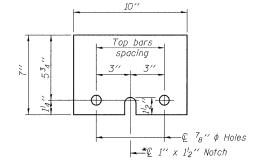
#### SECTIONS THRU SLAB OR DECK BEAM

- \*\*\* Dimension shown is minimum required embedment into concrete.

  If hot-mix asphalt wearing surface is present, minimum embedment shall be in addition to wearing surface depth.
- \*\*\*\* If existing deck beam is to remain in place after stage construction, embedment shall only be into wearing surface and not into existing deck beam concrete.







#### STEEL RETAINER P 1" x 7" x 10"

\* Required only with Detail II

TEMPORARY CONCRETE BARRIER
FOR STAGE CONSTRUCTION
US 30 OVER SOUTH RIVER STREET
STA. 280+57.0
S.N. 047-0030

SHEET NO. S3
S9 SHEETS

F.A.P. RTE. SECTION COUNTY SHEETS NO.

349
11 HB-1
KENDALL
26
15
CONTRACT NO. 60D83
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT

\*\*Wood blocks may be omitted when required to provide minimum stage traffic lane width. When the wood blocks are omitted, the concrete barrier shall be in direct contact with the steel retainer plate.

DESIGNED B. Sauter

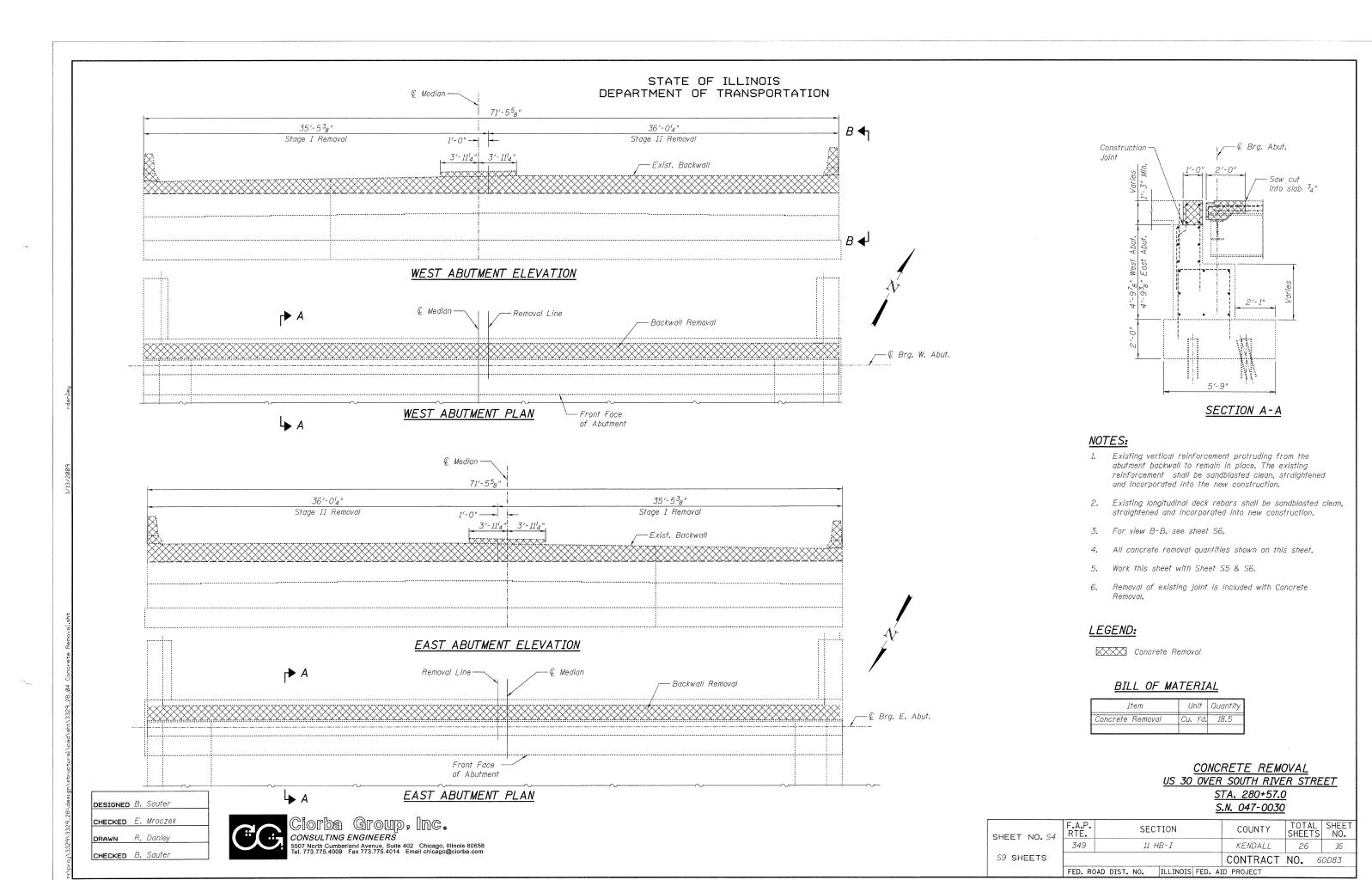
CHECKED E. Mroczek

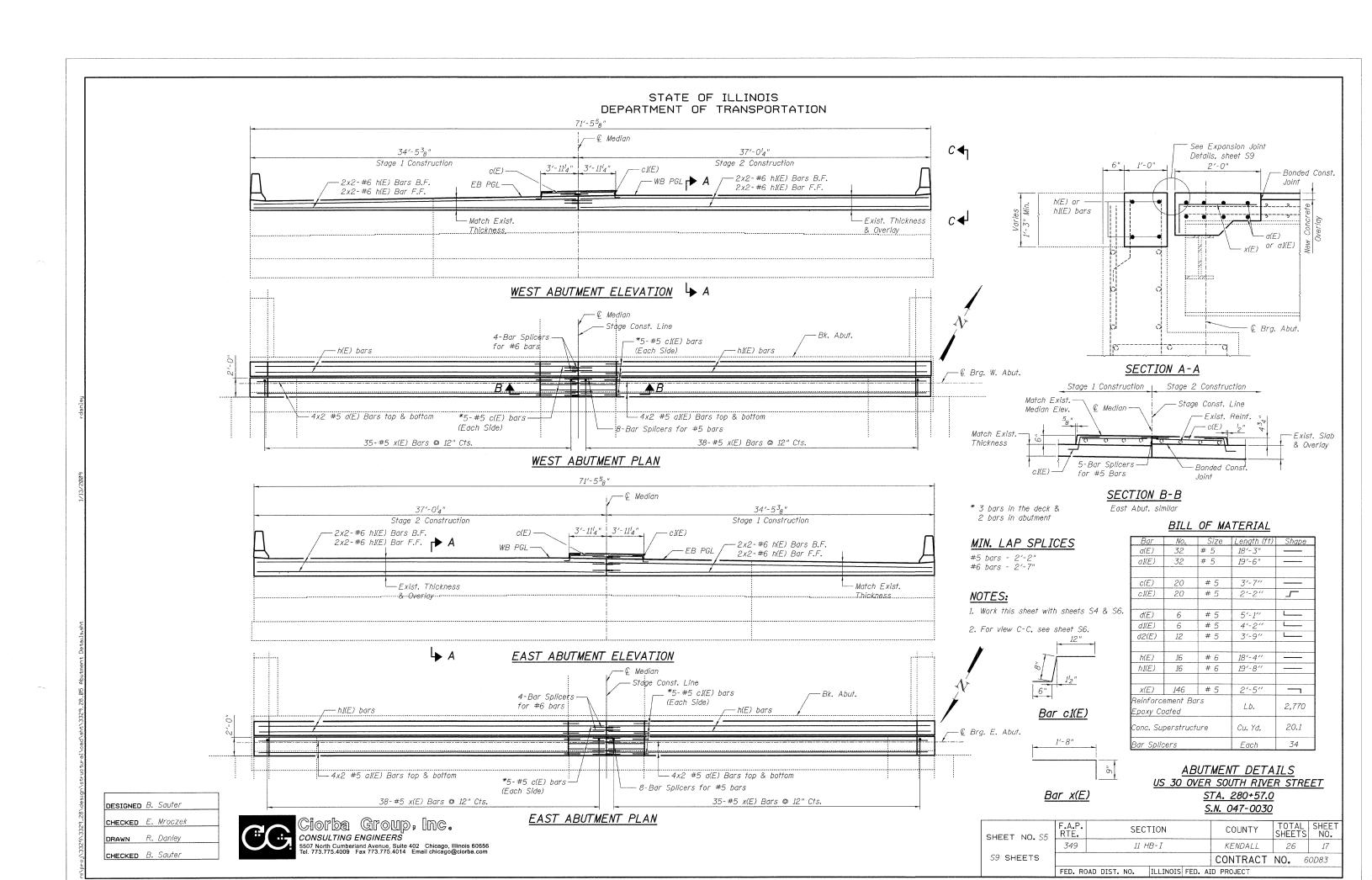
DRAWN R. Danley

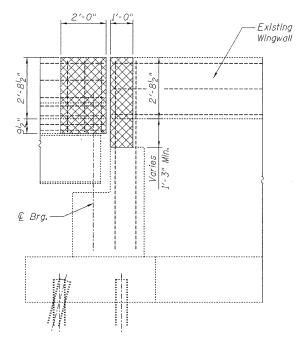
CHECKED B. Sauter

R-27



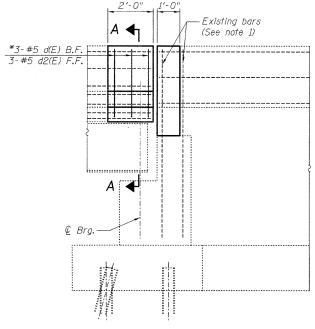






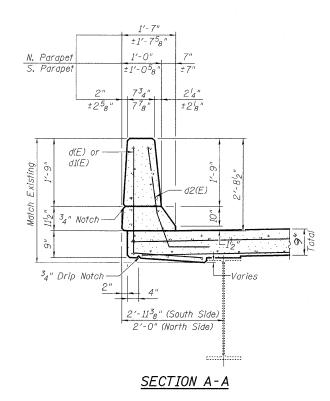
#### VIEW B-B EXISTING PARAPET ELEVATION

Southwest Wingwall shown (Three other locations similar)



#### VIEW C-C PROPOSED PARAPET ELEVATION

Southwest Wingwall shown (Three other locations similar)



#### LEGEND:

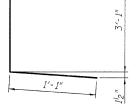
Concrete Removal

#### NOTE:

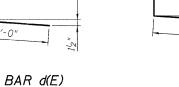
- 1. Existing vertical reinforcement protruding from the wingwall and horizontal reinforcement protruding from the existing parapet to remain in place. The existing reinforcement shall be sandblasted clean, straightened and incorporated into the new construction.
- 2. Work this sheet with sheet S4 and S5.
- 3. Quantities for concrete removal shown on sheet S4.
- 4. Quantities for concrete superstructure and rebar shown on sheet S5.

PARAPET REMOVAL AND REPLACEMENT US 30 OVER SOUTH RIVER STREET STA. 280+57.0 S.N. 047-0030

TOTAL SHEET NO. SECTION COUNTY SHEET NO. S6 KENDALL 11 HB-I 26 S9 SHEETS CONTRACT NO. 60D83 FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT





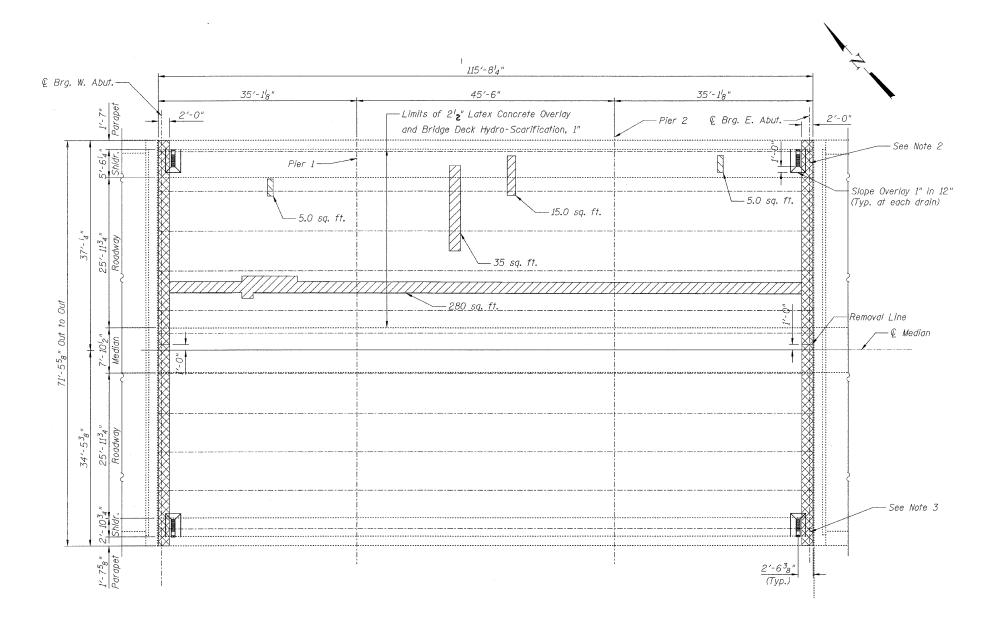


BAR d2(E)

DESIGNED B. Sauter CHECKED E. Mroczek DRAWN R. Danley CHECKED B. Sauter



<sup>\*</sup> d1(E) bars to be used in place of d(E) bars at NE and NW corners



#### NOTE:

- 1. Repairs shall include but not be limited to the areas shown. The actual areas to be determined by engineer at the time of
- 2. The engineer shall record the actual deck repair areas in order to document as-built conditions for the future reference.
- 3. For expansion joint rehabilitation, see sheet S4 thru S6.
- 4. For parapet and deck reconstruction see sheet S5.
- 5. Protective Coat to be applied to WB & EB Lanes, Median, and Parapets.
- 6. The Contractor is ultimately responsible for means and methods to ensure the complete stability of the structural members during construction.

#### LEGEND:

Deck Slab Repair Full depth, Type II

Deck Slab Repair Full Depth, Type I

Concrete Removal, quantities billed on Sheet S4.

#### BILL OF MATERIAL

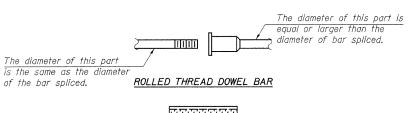
ITEM	UNIT	QUANTITY
Deck Slab Repair (Full Depth, Type I)	Sq. Yd.	1.1
Deck Slab Repair (Full Depth, Type II)	Sq. Yd.	36.7
Bridge Deck Hydro Scarification 1"	Sq. Yd.	390
Bridge Deck Latex Concrete Overlay, 2½ inches	Sg. Yd.	390
Protective Coat	Sq. Yd.	1,020
Bridge Deck Grooving	Sq. Yd.	405

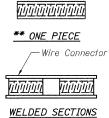
SUPERSTRUCTURE DETAILS US 30 OVER SOUTH RIVER STREET STA. 280+57.0 S.N. 047-0030

						•	
SHEET NO. S7	F.A.P. RTE.	SEC	ΓΙΟΝ		COUNTY	TOTAL SHEETS	SHEET NO.
3/1221 110: 3/	349	11 HB-I			KENDALL	26	19
S9 SHEETS					CONTRACT	NO. 6	0D83
	FED. RC	AD DIST. NO.	ILLINOIS FE	D. AII	D PROJECT		

DESIGNED B. Sauter CHECKED E. Mroczek DRAWN R. Danley CHECKED B. Sauter







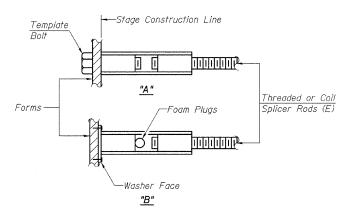
#### BAR SPLICER ASSEMBLY ALTERNATIVES

Bar Splicer for #5 bar Min. Capacity = 23.0 kips - tension Min. Pull-out Strength = 12.3 kips - tension

Ciorba Group, Inc.

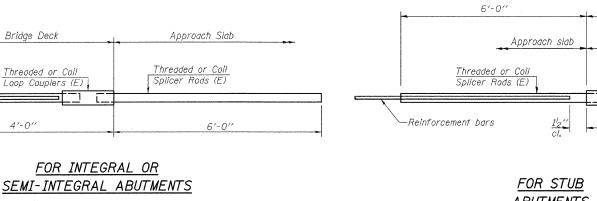
CONSULTING ENGINEERS

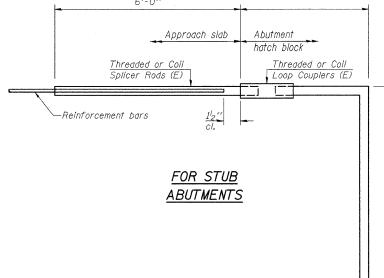
\*\*Heavy Hex Nuts conforming to ASTM A 563, Grade C, D or DH may be used.



#### INSTALLATION AND SETTING METHODS

"A": Set bar splicer assembly by means of a template bolt. "B" : Set bar splicer assembly by nailing to wood forms or cementing to steel forms. (E): Indicates epoxy coating.





Bar Splicer for #5 bar Min. Capacity = 23.0 kips - tension Min. Pull-out Strength = 12.3 kips - tension lo. Required =

#### *NOTES*

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.

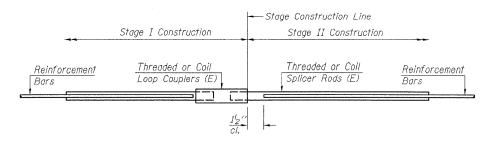
Other systems of similar design may be submitted to the Engineer for approval. Approval shall be based on certified test results from an approved testing laboratory that the proposed bar splicer assembly satisfies the following requirements:

- Minimum Capacity = 1.25 x fy x A<sub>t</sub>

  (Tension in kips) = 1.25 x fy x A<sub>t</sub>

  Minimum \*Pull-out Strength = 0.66 x fy x A<sub>t</sub>
- 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						
		Strengt	h 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				
<i>#7</i>	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
#6	8	Abut. Backwall
#5	26	Median & Deck
	·	

BAR SPLICER DETAILS US 30 OVER SOUTH RIVER STREET STA. 280+57.0 S.N. 047-0030

						<u> </u>	-	
SHEET NO. S8	F.A.P. RTE.	SECTION				COUNTY	TOTAL SHEETS	SHEE NO.
	349	11 HB-I			KENDALL	26	20	
S9 SHEETS						CONTRACT	NO. 6	OD83
	FED. RC	AD DIST.	NO.	ILLINOIS	FED.	AID PROJECT		

CHECKED B. Sauter BSD-1

DESIGNED B. Sauter

DRAWN R. Danley

CHECKED E. Mroczek

Reinforcement

Bars

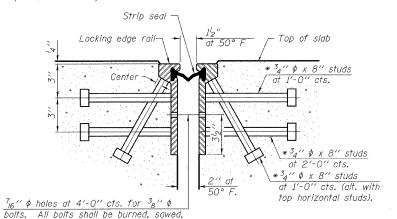
10-1-08

No. Required =

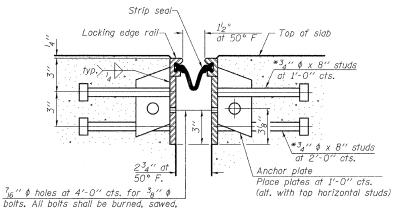
507 North Cumberland Avenue, Suite 402 Chicago, Illinois 60656 el. 773.775.4009 Fax 773.775.4014 Email chicago@ciorba.com

or chipped off flush with the plates

after forms are removed, typ.



## STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION



Note

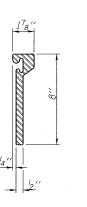
The strip seal shall be made continuous and shall have a minimum thickness of  ${}^{l}_{4}$ ". The configuration of the strip seal shall match the configuration of the Locking Edge Rails. Open or "webbed" strip seal gland configurations are not permitted. The gland shall be sized for a maximum rated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

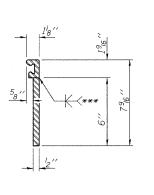
The height and thickness of the Locking Edge Rails shown are minimum dimensions. The actual configuration of the Locking Edge Rails and matching strip seal may vary from manufacturer to manufacturer. Flanged edge rails will not be allowed. Locking Edge Rails may be spliced at slope discontinuities and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

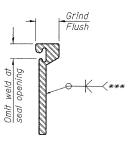
The manufacturer's recommended installation methods shall be followed. The joint opening and deck dimensions detailed on the superstructure are based on a rolled rail expansion joint. If the Contractor elects to use the welded rail expansion joint, the opening and deck dimensions shall be modified according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

#### <u>SECTION THRU</u> ROLLED RAIL JOINT







or chipped off flush with the plates

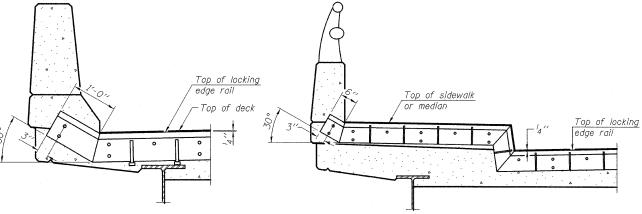
after forms are removed, typ.

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

# 3" 28 1 12" P

ANCHOR PC (for welded rail)





TYPICAL END TREATMENTS

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.

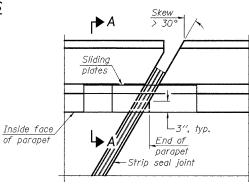
#### <u>ROLLED</u> EXTRUDED RAIL

WELDED RAIL

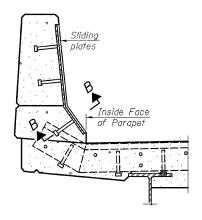
#### LOCKING EDGE RAIL SPLICE

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

#### LOCKING EDGE RAILS



<u>PLAN</u>



\*3<sub>4</sub>" \$ x 6" Stud.

|2" Plate | 6" min | 3" 6" 3" |
|3<sub>4</sub>" \$ Countersunk | bolts at ±12" cts.

SECTION B-B

#### BILL OF MATERIAL

Item	Unit	Total
Preformed Joint Strip Seal	Foot	142

DESIGNED B. Sauter

CHECKED E. Mroczek

DRAWN R. Danley

CHECKED B. Sauter

EJ-SSJ

CIORDA GROUP, INC.

CONSULTING ENGINEERS
5507 North Cumbertand Avenue, Suite 402 Chicago, Illinois 60656
151. 773.775.4009 Fax 773.775.4014 Email chicago@ciorba.com

<u>SECTION A-A</u>

POINT BLOCK DETAILS

(for skews > 30°)

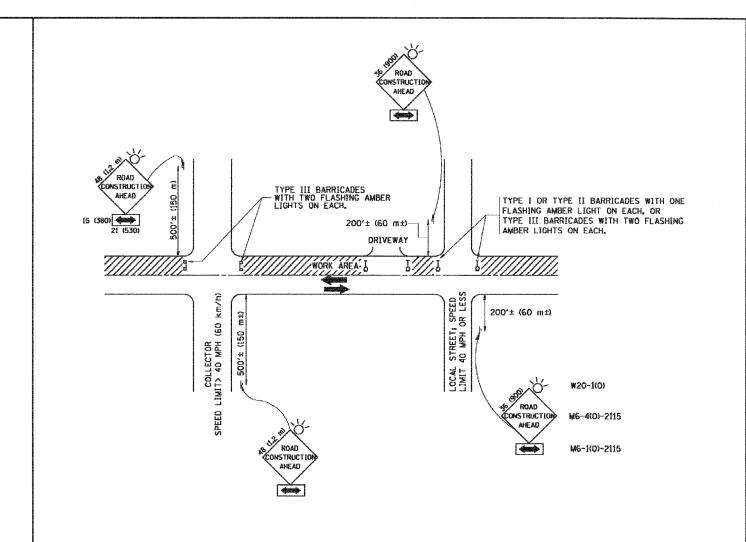
<u>JOINT SYSTEM DETAILS</u> <u>US 30 OVER SOUTH RIVER STREET</u> <u>STA. 280+57.0</u> S.N. 047-0030

SHEET NO. 59 RTE. SECTION COUNTY SHEETS NO. 59 SHEETS

S9 SHEETS

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

10 - 1 - 08



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

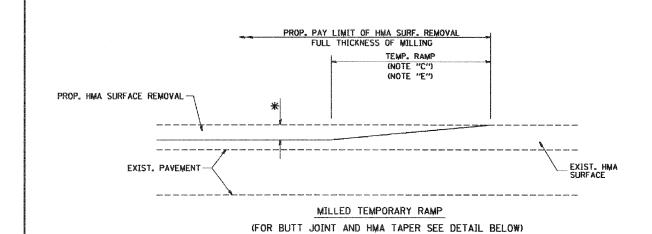
#### NOTES:

- 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 ENGINEERS
- O) ONE ROAD CONSTRUCTION AHEAD SIGN 36 x 36 (900x900) WITH A FLASHER AND FLAG WOUNTED 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:
- O) DNE ROAD CONSTRUCTION AHEAD SIGN 48 x 48 (1.2 m x 1.2 m) WITH A FLASHER WOUNTED ON IT APPROXIMATELY 500' (150 m) IN ADVANCE OF THE MATN 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 (M6-1) SHALL BE USED IN LIEU OF THE DOUBLE HEADED ARROW (M6-4).

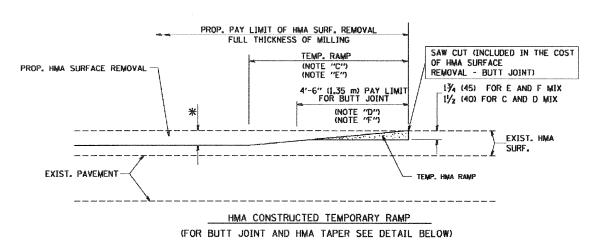
- B. FOR A LANE CLOSURE ON A SIDE ROAD OR DRIVEWAY:
- USE APPLICABLE PORTIONS OF THE TYPICAL APPLICATION OF TRAFFIC CONTROL DEVICES (STD. 701501, STD. 701606 OR THE APPROPRIATE STANDARD). THE SPACING OF SIGNS AND BARRICADES SHALL BE ADJUSTED FOR FIELD CONDITIONS AS DIRECTED BY THE ENGINEER. THE DIRECTIONAL ARROW SHALL BE COVERED OR REMOVED WHEN NO LONGER CONSISTENT WITH THE SIDE ROAD LANE CLOSURE.
- C. ADVANCE WARNING SIGNS ARE TO BE OWITTED 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.

Name of the last	FILE NAME =	USER NAME = goglionobt	DESIGNED - LHA	REVISED - J. OBERLE 10-18-95			TRAFFIC CONTROL AND PROTECTION FOR	F.A.P. SECTION	COUNTY TOTAL SHEET
34 mary 1	fi\distatd\22x34\tolØidgn		DRAWN -	REVISED - A. HOUSEH 03-06-96	STATE OF ILLINOIS			349 11 HB-I	KENDALL 26 22
10000		PLOT SCALE = 50.000 '/ IN.	CHECKED -	REVISED - A. HOUSEH 10-15-96	DEPARTMENT OF TRANSPORTATION		SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS	TC-10	CONTRACT NO. 60D83
		PLOT DATE = 1/4/2008	DATE - 06-89	REVISED -T. RAMMACHER 01-06-00		SCALE: NONE	SHEET NO. 1 OF L SHEETS STA. TO STA.	FED. ROAD DIST. NO. 1 ILLINOIS FED. AL	

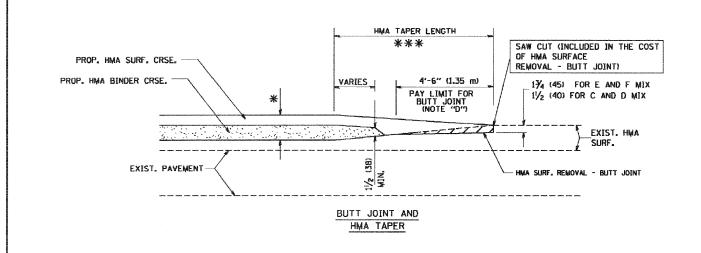


#### OPTION 1

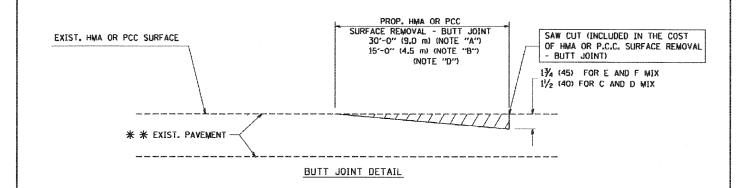


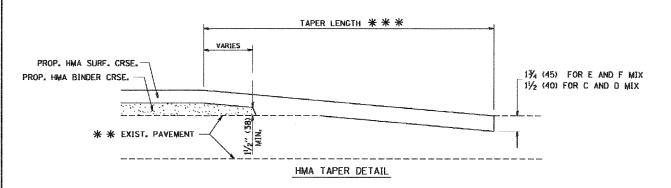
### OPTION 2

#### TYPICAL TEMPORARY RAMP



## TYPICAL BUTT JOINT AND HMA TAPER FOR MILLING AND RESURFACING





## TYPICAL BUTT JOINT AND HMA TAPER FOR RESURFACING ONLY

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

#### NOTES

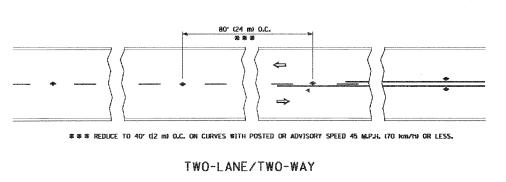
- A: MAINLINE ROADWAYS AND MAJOR SIDE ROADS.
- B: MINOR SIDE ROADS.
- C: THE TEMP. RAMP SHALL BE CONSTRUCTED IMMEDIATELY UPON REMOVAL OF THE EXISTING HMA SURFACE.
- D: THE BUTT JOINT SHALL BE CONSTRUCTED IMMEDIATELY PRIOR TO PLACING THE PROPOSED HMA COURSES.
- E: TAPER THE TEMP. RAMP AT A RATE OF 3'-0" (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
- Gs SEE ARTICLE 406.08 AND 406.14 OF THE STANDARD SPECIFICATIONS FOR "HMA AND/OR PCC SURFACE REMOVAL, BUTT JOINT".
- $oldsymbol{st}$  see typical sections for milling thickness.

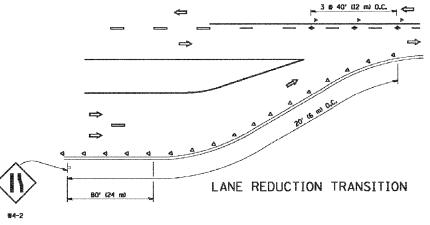
#### BASIS OF PAYMENT:

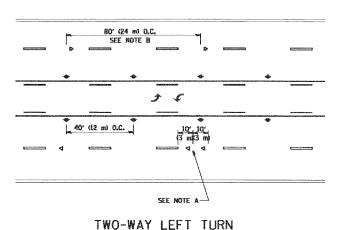
THE BUTT JOINT WILL BE PAID FOR AT THE CONTRACT UNIT PRICE PER SQUARE YARD (SQUARE METER)
FOR "HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT" OR FOR "PORTLAND CEMENT CONCRETE SURFACE REMOVAL- BUTT JOINT".

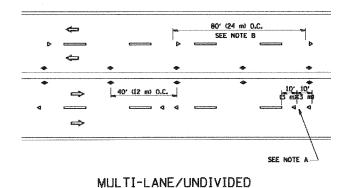
ALL DIMENSIONS ARE IN INCHES (MULLIMETERS) LINLESS OTHERWISE SHOWN.

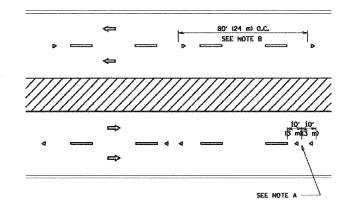
FILE NAME =	USER NAME = goglianobt	DESIGNED - M. DE YONG	REVISED - R. SHAH 10-25-94		BUTT JOINT AND	F.A.P. SECTION	COUNTY TOTAL SHEET
W:\diststd\22x34\bd32.dgn	DIOT SCALE * E0 GOOG / / IN	DRAWN -	REVISED - A. ABBAS 03-21-97 REVISED - M. GOMEZ 04-06-01	STATE OF ILLINOIS	NMA TAPER DETAILS		KENDALL 26 23
	PLOT SCALE = 50.00000 '/ IN. PLOT DATE = 1/4/2008	CHECKED - 06-13-90	REVISED - M. GOMEZ 04-06-01 REVISED - R. BORO 01-01-07	DEPARTMENT OF TRANSPORTATION	SCALE: NONE SHEET NO. 1 OF 1 SHEETS STA. TO STA.	BD400-05 BD32 FED. ROAD DIST. NO. 1   ILLINOIS FED. AM	CONTRACT NO. 60D83 D PROJECT











MULTI-LANE/DIVIDED

#### GENERAL NOTES

- 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) D.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 WARKER (W/O)
- TWO-WAY AMBER MARK

#### DESIGN NOTES

- 1. DOUBLE LAME LINE MARKERS SHALL BE USED UNLESS SPECIFIED OTHERWISE.
- 2. EXCEPT AS SHOWN ON THE LANE REDUCTION TRANSITION AND FREEWAY EXIT RAMP DETAIL, MARKERS ARE NOT TO BE SPECIFIED ON RIGHT EDGE INFS.
- 3. THE EXACT MARKER LIWITS, SPACING, AND COLOR SHOULD BE INCLUDED IN THE PLANS.
- 4. MARKERS SHOULD NOT BE USED ALONGSIDE CURBS EXCEPT FOR EXTREMELY SHORT SECTIONS OF CURBS WHERE NOT MORE THAN TWO MARKERS WOULD BE INVOLVED.

## 3 e 80' (24 m) 0.C. | MINIMUM OF 3 W | EQUALLY SPACED | S e 40' (12 m) | O.C. | S | O.C

LEFT TURN

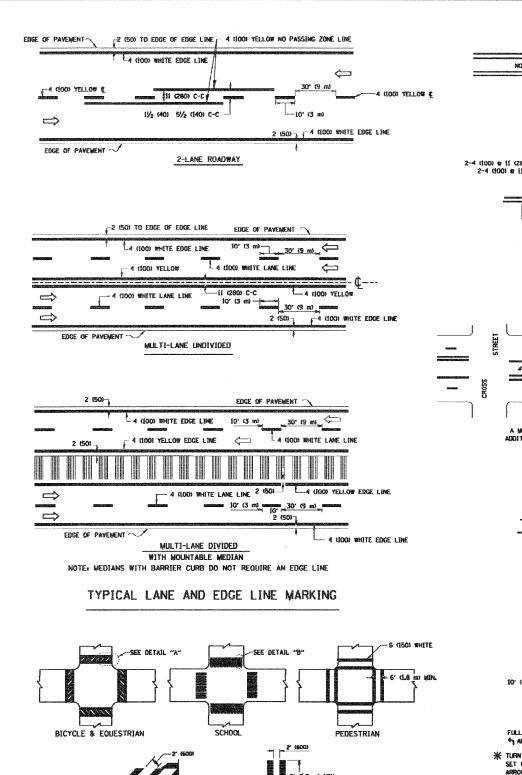
\* SEE TWO-LANE/TWO-WAY WHERE MARKERS CONTINUE

\*\* WHERE THE MEDIAN WIDTH IS 6' (2 m) OR LESS
USE TWO-WAY MARKERS.

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

COUNTY TOTAL SHEET NO.

KENDALL 26 24 DESIGNED -REVISED - T. RAMMACHER 09-19-94 TYPICAL APPLICATIONS DRAWN REVISED - T. RAMMACHER 03-12-99 STATE OF ILLINOIS #i\diststd\22x34\tol1.dgn RAISED REFLECTIVE PAVEMENT MARKERS (SNOW-PLOW RESISTANT) REVISED -T. RAMMACHER 01-06-00 **DEPARTMENT OF TRANSPORTATION** CONTRACT NO. 60D83 DATE REVISED SCALE: NONE SHEET NO. 1 OF 1 SHEETS STA. FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT



\_\_12 (300) WHITE

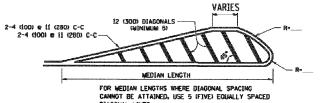
DETAIL "B"

TYPICAL CROSSWALK MARKING

DETAIL "A"

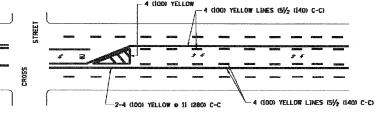
2-4 (100) YELLOW @ 11 (280) C-C-4' (1.2 m) OUTSIDE TO OUTSIDE OF LINES NO DIAGONALS - 2-4 (100) YELLOW # 11 (280) C-C

#### 4' (1.2 m) WIDE MEDIANS ONLY

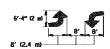


DIAGONAL LINE SPACING: 50' (15 m) C-C (LESS THAN 30MPH (50 km/h)) 75' (25 m) C-C 30MPH (50 km/h) TO 45MPH (TO km/h)) 150' (45 m) C-C (MORE THAN 45MPH (TO km/h))

#### MEDIANS OVER 4' (1.2 m) WIDE

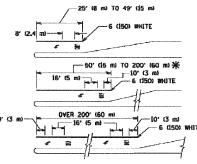


A MINIMUM OF TWO PAIRS OF TURN ARROWS SHALL BE USED, WHITE IN COLOR.
ADDITIONAL PAIRS SHALL BE PLACED AT 200' (60 m) TO 300' (90 m) INTERVALS.



MEDIAN WITH TWO-WAY LEFT TURN LANE

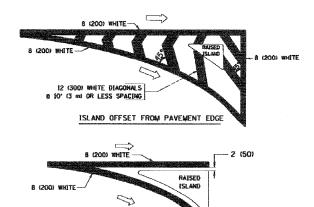
#### TYPICAL PAINTED MEDIAN MARKING



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

\* TURN LAMES IN EXCESS OF 400' 1120 ml in length may have an additional set of arrow - "Only" installed widway between the other two sets of arrow - "Only".

TYPICAL LEFT (OR RIGHT) TURN LANE



#### TYPICAL ISLAND MARKING

ISLAND AT PAVEMENT EDGE

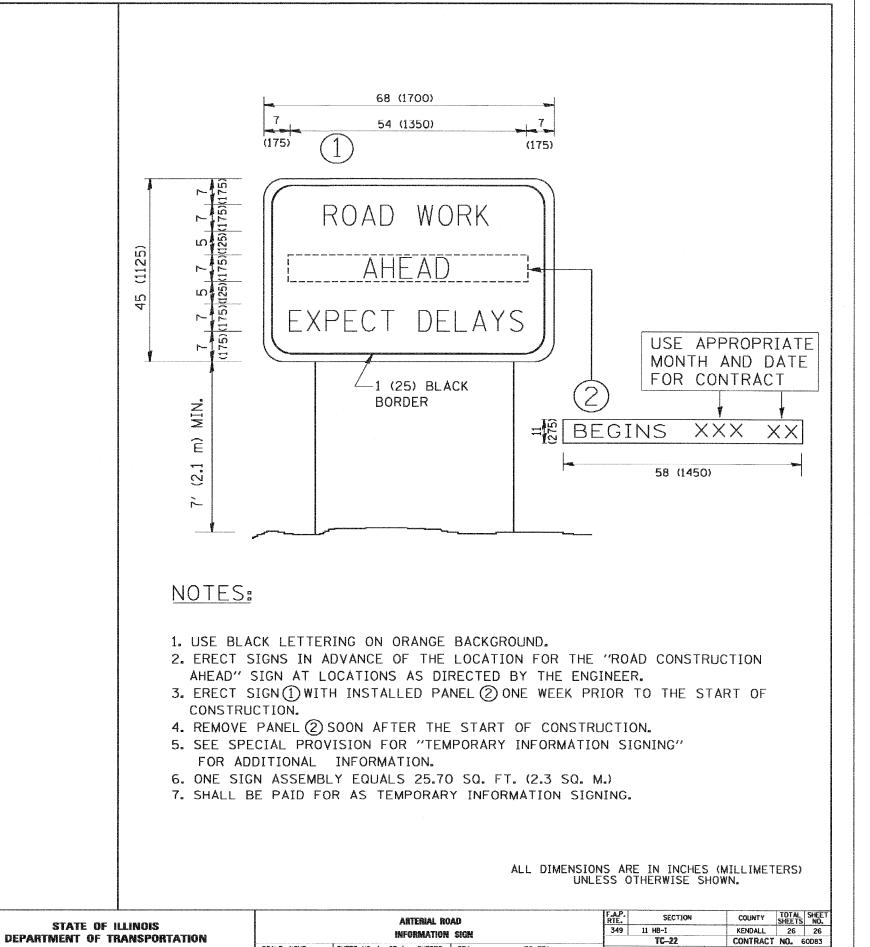
		r		
TYPE OF MARKING	WIDTH OF LINE	PATTERN	COLOR	SPACING / REMARKS
CENTERLINE ON 2 LANE PAVEMENT	4 (100)	SKIP-DASH	YELLOW	10' (3 m) LIME WITH 30' (9 m) SPACE
CENTERLINE ON MULTI-LANE UNDIVEDED PAVEMENT	2 9 4 (100)	SOLID	YELLOW	11 (280) C-C
NO PASSING ZONE LINES: FOR DIME DIRECTION FOR BOTH DIRECTIONS	4 (100) 2 s 4 (100)	SOLID SOLID	YELLOW YELLOW	5½ 1140) C-C FROM SKIP-DASH CENTERLINE 11 1280) C-C OWIT SKIP-DASH CENTERLINE BETWEEN
LANE LINES	4 (100) 5 (125) ON FREEWAYS	SKIP-DASH SKIP-DASH	WHITE WHITE	10, (2 m) FIME ALLH 30, (3 m) 255VCE
DOTTED LINES ŒXTENSIONS OF CENTER, LANE OR TURN LANE MARKINGSI	SAME AS LINE BEING EXTENDED	SKIP-DASH	SAME AS LINE BEING EXTENDED	2' (600) LINE WITH 6' (L8 m) SPACE
EDGE LINES	4 (100)	SOLID	YELLOW-LEFT WHITE-RIGHT	OUTLINE MOUNTABLE MEDIAMS IN YELLOW; EDGE LINES ARE NOT USED NEXT TO BARRIER CURB
TURN LANE WARKINGS	6 (150) LINE; FULL SIZE LETTERS & SYMBOLS (8' (2.4mi)	SOLID	WHETE	SEE TYPICAL TURN LAME MARKING DETAIL
TWO WAY LEFT TURN WARKING	2 e 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 & EDLESTRIAN) B. LONGITUDINAL BARS (SCHOOL)	2 8 6 (150) 12 (300) 8 45° 12 (300) 8 90°	SOLID SOLID SOLID	WHITE WHITE WHITE	NOT LESS THAN 6' (1,8 m) APART 2' (600) APART 2' (600) APART SEE TYPICAL CROSSWALK MARKING DETAILS.
STOP LINES	24 (600)	SOLID	<b>G</b> HETE	PLACE 4" (1,2 ml Ne ADVANCE OF AND PARALLEL TO CROSSWALK, IF PRESENT, OTHERWISE, PLACE AT LESSHED STOPPING POINT, PARALLEL TO CROSSWOAD CENTERLINE, RHERE POSSURE
PAINTED NEDIANS	2 m 4 (100) WITH 12 (300) DIAGONALS 0 45°	SOLID	YELLOW: TWO WAY TRAFFIC	11 (280) C-C FOR THE DOUBLE LINE SEE TYPICAL PAINTED MEDIAN MARKING.
	NO DIAGONALS USED FOR 4' (1.2 m) WIDE MEDIANS		WHITE: DRE WAY TRAFFIC	SEE LOWE LAND.EN MEDISON SOURCES
GORE MARKING AND CHANNELIZING LINES	8 (200) WITH 12 (300) DIAGONALS # 45*	SOLID	<b>WHITE</b>	DIAGONALS: 15' 14.5 m) C-C ULESS THAN 30NPH (50 km/h); 20' 16 m) C-C 30MPH (50 km/h) TO 45MPH (TO km/h); 30' (9 m) C-C (OVER 45MPH (TO km/h);
RAILROAD CROSSING	24 (600) TRANSVERSE LINES; "RR" IS 6' (1,8 ml LETTERS; 16 (400) LINE FOR "X"	SOLID	₩H(TE	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) @ 45°	SOLIO	WHITE - RIGHT YELLOW - LEFT	50' (15 m) C-C (LESS THAN 304PH (50 km/h)) 75' (25 m) C-C (30 4PH (50 km/h) TO 454PH (TO km/h)) 150' (45 m) C-C (0YER 454PH (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.

TYPICAL TURN LANE MARKING

FILE NAME =	USER NAME = gaglianobt	DESIGNED - EVERS	REVISED -T. RAMMACHER 10-27-94		DISTRICT ONE	RTE. SECTION COUNTY TOTAL SHEET NO.
W:\d:ststd\Z2x34\toi3.dgn		DRAWN -	REVISED -A. HOUSEH 10-09-96	STATE OF ILLINOIS		349 11 HB-I KENDALL 26 25
557	PLOT SCALE = 50.000 '/ IN.	CHECKED -	REVISED -A. HOUSEH 10-17-96	DEPARTMENT OF TRANSPORTATION	TYPICAL PAVEMENT MARKINGS	TC-13 CONTRACT NO. 60D83
	PLOT DATE = 1/4/2008	DATE - 03-19-90	REVISED - T. RAMMACHER 01-06-00		SCALE: NONE SHEET NO. 1 OF 1 SHEETS STA. TO STA.	FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT



SHEET NO. 1 OF 1 SHEETS STA.

TO STA.

SCALE: NONE

FILE NAME =

r\distatd\22x34\to22.dgr

USER NAME = gaglianebt

PLOT SCALE = 50.000 '/ IN.

PLOT DATE = 1/4/2008

DESIGNED -

CHECKED -

DRAWN

DATE

REVISED - R. MIRS 09-15-97

REVISED - R. MIRS 12-11-97

REVISED -

REVISED -T. RAMMACHER 02-02-99

C. JUCIUS 01-31-07