STATE OF ILLINOIS

**DEPARTMENT OF TRANSPORTATION** 

**DIVISION OF HIGHWAYS** 

PLANS FOR PROPOSED FEDERAL AID HIGHWAY

(F.A.P. ROUTE 351) US ROUTE 6 (159th St.)

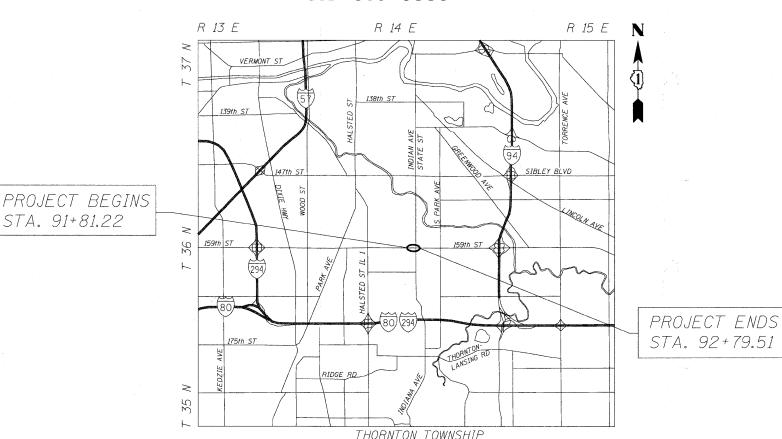
OVER CAL UNION DITCH (0.9 MI EAST OF ILL 1)

SECTION: 539 B-I

COOK COUNTY PROJECT: NHF-0351(022)

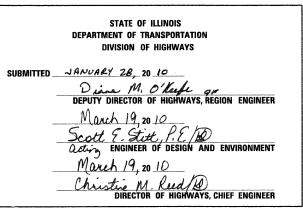
) N DDO IECT

BRIDGE REHABILITATION PROJECT SN 016-0386



D-91-226-10





## PRINTED BY THE AUTHORITY OF THE STATE OF ILLINOIS



PROJECT LOCATED IN THE VILLAGE OF HARVEY, ILLINOIS

FOR INDEX OF SHEETS, SEE SHEET NO. 2

DESIGN DESIGNATION
MINOR ARTERIAL

 $\circ$ 

0

ADT 23,300 (2005)
POSTED SPEED LIMIT 35 MPH

0 100' 200' 300' — 1" = 100'
0 50' 100' — 1" = 50'
0 50' 100' — 1" = 40'
0 50' 100' — 1" = 30'
0 50' 100' — 1" = 30'

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

J.U.L.I.E.

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

PROJECT MANAGER: KIM HARVEY (847) 705–4055
PROJECT ENGINEER: ERSKINE W. KLYCE (847) 705–4594

CONTRACT NO. 60J36

NET AND GROSS LENGTH OF PROJECT = 98.29' = 0.019 MI

LOCATION MAP

SHEET NO.	<u>TITLE</u>
1	TITLE SHEET
2	GENERAL NOTES, STATE STANDARDS AND INDEX OF SHEETS
3-4	SUMMARY OF QUANTITIES
5	TYPICAL SECTIONS
6	STAGING TYPICAL SECTIONS
7	CONSTRUCTION STAGING PLAN - STAGE 1
8	CONSTRUCTION STAGING PLAN - STAGE 2
9	ROADWAY RESURFACING AND APPROACH OVERLAY PLAN
10	PAVEMENT MARKING PLAN
11-16	STRUCTURAL PLANS
17	BUTT JOINT AND HMA TAPER DETAILS
18	TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTION AND DRIVEWAYS
19	RAISED REFLECTIVE PAVEMENT MARKERS (SNOW-PLOW RESISTANT)
20	DISTRICT ONE TYPICAL PAVEMENT MARKINGS
21	ARTERIAL ROAD INFORMATION SIGN
	HIGHWAY STANDARDS
	·

#### STATE STANDARDS

SHEET NO.	<u>TITLE</u>
000001 <b>-05</b>	STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS
001001 <b>- 02</b>	AREAS OF REINFORCEMENT REBARS
606306 <b>-03</b>	CORRUGATE PC CONCRETE MEDIAN
701602 <b>-04</b>	URBAN LANE CLOSURE, MULTILANE, 2W WITH BIDIRECTIONAL LEFT TURN LANE
701606 <b>-06</b>	URBAN LANE CLOSURE, MULTILANE, 2W WITH MOUNTABLE MEDIAN
701701 <b>-06</b>	URBAN LANE CLOSURE MULTILANE INTERSECTION
701901 <b>- 01</b>	TRAFFIC CONTROL DEVICES
704001 <b>-06</b>	TEMPORARY CONCRETE BARRIER

#### GENERAL NOTES

ALL ELEVATIONS ARE BASED ON UNITED STATES COAST AND GEODETIC SURVEY DATUM.

DIMENSIONS ARE IN ENGLISH UNITS UNLESS OTHERWISE NOTED.

BEFORE STARTING ANY EXCAVATION, THE CONTRACTOR SHALL CALL "JULIE" AT 800-892-0123 FOR FIELD LOCATIONS OF BURIED ELECTRIC, TELEPHONE, AND GAS FACILITIES (48 HOURS NOTIFICATION IS REQUIRED).

THE CONTRACTOR WILL NOT BE ALLOWED TO SET UP A YARD OR FIELD OFFICE ON STATE PROPERTY WITHOUT WRITTEN PERMISSION FROM THE DEPARTMENT.

IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY ALL DIMENSIONS AND CONDITIONS EXISTING IN THE FIELD PRIOR TO CONSTRUCTION AND ORDERING MATERIALS.

ANY REFERENCE TO STANDARDS IN THE PLANS OR SPECIAL PROVISIONS SHALL BE INTERPRETED TO BE THE LATEST STANDARDS OF THE DEPARTMENT LISTED IN THE PLANS WITH THE LATEST NUMBERS.

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 PROPERTIES.

THE RESIDENT ENGINEER SHALL CONTACT MR. DON CHIARUGI,
AREA TRAFFIC ENGINEER, AT (847) 741-9857 AT A MINIMUM
OF 2 WEEKS PRIOR TO THE PLACEMENT OF PERMANENT
PAVEMENT MARKING.

(708) 577-9800

THE RESIDENT ENGINEER SHALL CONTACT THE TRAFFIC CONTROL SUPERVISOR AT (847) 705-4470 A MINIMUM OF 72 HOURS PRIOR TO THE PLACEMENT OF ANY TEMPORARY TRAFFIC CONTROL DEVICES.

ALL WORK IS TO BE COMPLETED BY THE COMPLETION DATE. THE COMPLETION DATE FOR THIS CONTRACT IS SEPTEMBER 24, 2010

BEFORE BEGINNING ANY WORK, THE CONTRACTOR SHALL RETAIN AND RECORED FOR FUTURE REFERENCE, ALL EXISTING PAVEMENT MARKING LINES (AND RAISED REFELCTIVE MARKERS) IN ORDER THAT THESE LOCATIONS CAN BE RE-ESTABLISHED FOR STRIPING. EXACT LOCATINOS OF ALL PAVEMENT MARKINGS SHALL BE DIRECTED BY THE ENGINEER.

	DESIGNED - MJY	REVISED -
	DRAWN - ST, TSC	REVISED -
CONSULTING ENGINEERS 1560 WALL ST. SUITE 222	CHECKED - MJY, DC	REVISED -
NAPERVILLE, ILLINOIS 60563 PH: (630) 577-9100	DATE - 01/29/2010	REVISED -

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

٦	GENERAL	NOTES STATE STANDARD	S AND INDEX OF SHEETS	F.A.P. RTE.	SECTION	COUNTY	TOTAL	SHEET NO.
1		(159th STREET) OVER CAL		351	539 B-1	COOK	21	2
	03 0	(1990) STREET OVER CA	COMPT OFFICIA DITOR		D-91-226-10	CONTRAC	T NO. 6	50J36
1	SCALE: NONE	SHEET NO. 2 OF 21 SHEETS	STA. 91+81.22 TO STA. 92+79.51	FED. RO	DAD DIST. NO.   ILLINOIS FED. A	ID PROJECT		

	SUMMARY OF QUANTITIES		801. FED . 201. STATE					SUMMARY OF QUANTITIES		80%. FED. 20%.STATE		
CODE NO.	ITEM	UNIT	URBAN TOTAL	ROADWAY IOOO	BRIDGE XO20-2A		CODE NO.	ITEM	UNIT	URBAN TOTAL	ROADWAY IOOO	BRIDGE XO20-2A
40600200	BITUMINOUS MATERIALS (PRIME COAT)	TON	1	1		*	78000100	THERMOPLASTIC PAVEMENT MARKING-LETTERS AND SYMBOLS	SQ FT	182	182	
40600635	LEVELING BINDER (MACHINE METHOD), N7O	TON	25	25		*	78000200	THERMOPLASTIC PAVEMENT MARKING-LINE 4"	FOOT	7043.	6909	134
40603340	HOT-MIX ASPHALT SURFACE COURSE, MIX "D". N70	TON	50	50		*	78000400	THERMOPLASTIC PAVEMENT MARKING-LINE 6"	FOOT	1503	1503	
44000100	PAVEMENT REMOVAL	sa ya	36	36		*	78000600	THERMOPLASTIC PAVEMENT MARKING-LINE 12"	FOOT	103	103	
44000198	HOT-MIX ASPHALT SURFACE REMOVAL, VARIABLE DEPTH	SQ YD	589	589		*	78000650	THERMOPLASTIC PAVEMENT MARKING-LINE 24"	FOOT	87	87	
44000915	HOT-MIX ASPHALT SURFACE REMOVAL (DECK)	SO YD	180		180	*	<del>78008210</del>	POLYUREA PAVEMENT MARKING TYPE 1 LINE 4"	-F00T	<del>134</del>		-134
44003900	SURFACE MEDIAN REMOVAL AND REPLACEMENT	sa FT	317	317		*	78100100	RAISED REFLECTIVE PAVEMENT MARKER	EACH	4	4	
50102400	CONCRETE REMOVAL	CU YD	21.2		21.2	*	78200530	BARRIER WALL MARKERS, TYPE C	EACH	18	18	
	CONCRETE SUPERSTRUCTURE	CU YD	21.7	-	21.7	*	78300100	PAVEMENT MARKING REMOVAL	SQ FT	3394	3394	
50300255		SQ YD			172		78300200	RAISED REFLECTIVE PAVEMENT MARKER REMOVAL	EACH	4		4
50300260	BRIDGÉ DECK GROOVING				218		X0320887	POLYMER CONCRETE	CU FT	6.1		6.1
50300300	PROTECTIVE COAT	SQ YD	4880		4880	-	X0322185	BRIDGE DECK LATEX CONCRETE OVERLAY, 2 1/4 INCHES	SO YD	182		182
50800205	REINFORCEMENT BARS, EPOXY COATED	POUND					X0322256	TEMPORARY INFORMATION SIGNING	SQ FT	5 <u>2</u>	52	
67000400	ENGINEER'S FIELD OFFICE, TYPE A	CAL MO		6			x0325303	F DEPTH STRUCTURAL REPAIR OF CONCRETE (GREATER THAN 5 INCHES)	SQ FT	14		14
67100100	MOBILIZATION	L SUM		1			X0325305	STRUCTURAL REPAIR OF CONCRETE (DEPTH EQUAL TO OR LESS THAN	SQ FT			80
70101800	TRAFFIC CONTROL AND PROTECTION, (SPECIAL)	L SUM		1			X0325775	5 INCHES)  WET REFLECTIVE TEMPORARY TAPE, TYPE III, 4 INCH	FOOT	12808	12808	
70103815	TRAFFIC CONTROL SURVEILLANCE	CAL DA	<b>.2</b> 0	<b>a</b> o								
70106800	CHANGEABLE MESSAGE SIGN	CAL MG	6	6			X0325837	WET REFLECTIVE TEMPORARY TAPE, TYPE III, 6 INCH	FOOT	66	66	
70400100	TEMPORARY CONCRETE BARRIER	FOOT	405	405			X0325841	WET REFLECTIVE TEMPORARY TAPE, TYPE III. 24 INCH	FOOT	64	64	
70400200	RELOCATE TEMPORARY CONCRETE BARRIER	F00T	405	405			X0325842	WET REFLECTIVE TEMPORARY TAPE, TYPE III. LETTERS AND SYMBOLS	SQ FT	36	36	

\* SPECIALTY ITEMS

	DESIGNED - MJY				SUMMARY OF QU	ANTITIES	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEET SHEETS NO.
	DRAWN - ST, TSC	REVISED -	STATE OF ILLINOIS	110	6 (159th STREET) OVER CA		351	539 B-1	COOK	21 3
CONSULTING ENGINEERS	CHECKED - MJY, DG	REVISED -	DEPARTMENT OF TRANSPORTATION	03	0 (135th STREET) OVER OF			D-91-226-10	CONTRAC	CT NO. 60J36
NAPERVILLE, ILLINOIS 60563 PH: (630) 577-9100	DATE - 01/29/2010	REVISED -		SCALE: NONE	SHEET NO. 3 OF 21 SHEETS	STA. 91+81.22 TO STA. 92+79.51	FED. ROAD	DIST. NO. ILLINOIS FED. A	ID PROJECT	walan ing malausan

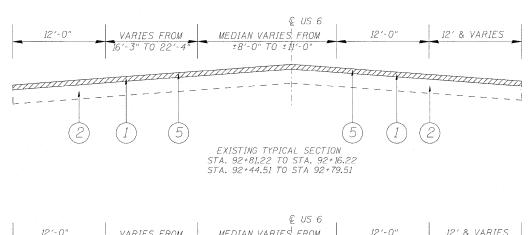
		SUMMARY OF QUANTITIES		801. FED. 201. STATÉ				SUMMARY OF Q	QUANTITIES		100%	STATE
	CODE NO.	ITEM	UNIT	URBAN TOTAL	ROADWAY IOOO	BRIDGE X020-2A	CODE NO.	ITEM		UNIT URBAN TOTAL	ROADWAY IOOO	BRIDGE X020-2A
	(0712400	TEMPORARY PAVEMENT	SQ YD	36	36							
$\sqrt{x}$	5430100	INSERTION CULVERT LINER (SPECIAL)	FOOT	50		50						
1/2	70006204	BRIDGE DECK HYDRO-SCARIFICATION 1/2"	SQ YD	186		186						
	Z0013798	CONSTRUCTION LAYOUT	L SUM	1	1							
4	Z0030240	IMPACT ATTENUATORS, TEMPORARY (NON-REDIRECTIVE), TEST LEVEL 2	EACH	2	2							
- 2	70030340	IMPACT ATTENUATORS, RELOCATE (NON-REDIRECTIVE), TEST LEVEL 2	EACH	2	2							
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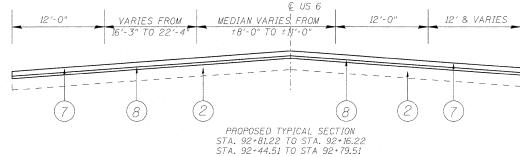
\* SPECIALTY ITEMS

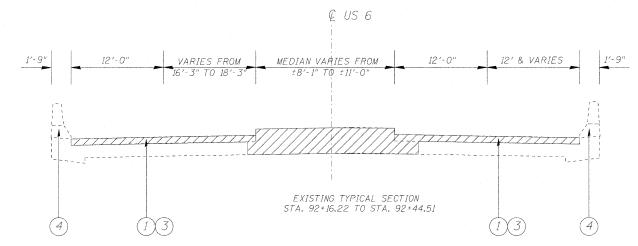
		DESIGNED - MJY	
	-	DRAWN - ST, TSC	REVISED -
CONSULTING ENGINEERS 1560 WALL ST, SUITE 222		CHECKED - MJY, DC	REVISED -
NAPERVILLE, ILLINOIS 60563 PH; (630) 577-9100		DATE - 01/29/2010	REVISED -

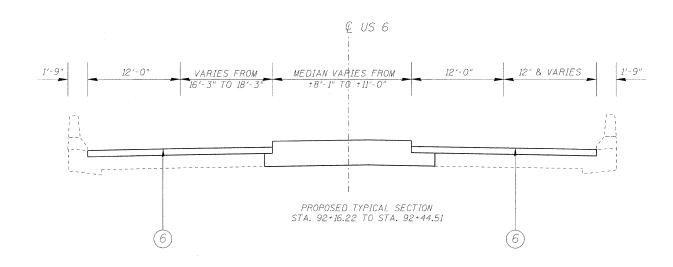
			SUMMARY	OF QU	IANTITIE	S	
	US	6 (159th	STREET) O	VER CA	LUMET	UNION	DITCH
U.E. NONE		SHEET N	0 4 OF 21 SH	FFTS	STA 91-	+81.22 TO	STA. 92+79.51

	F.A.P. RTE.	SECT	ION		COUNTY	TOTAL SHEETS	SHEET NO.	
	351	539	B~1		Ţ	COOK	21	4
_		D-91-226	-10	Т	CONTRACT	NO.	50J36	
	FED, RO	DAD DIST. NO.	ILLINOIS	FED.	AID	PROJECT		









#### LÉGEND

- (1) EXISTING HMA OVERLAY
- (2) EXISTING BASE SURFACE COURSE
- (3) EXISTING BRIDGE DECK HYDRO-SCARIFICATION, &"
- (4) EXISTING PARAPET WALLS
- 5) HMA SURFACE REMOVAL, VARIABLE DEPTH
- 6) PROPOSED BRIDGE DECK LATEX CONCRETE OVERLAY, 2 4"
- (7) PROPOSED HMA SURFACE COURSE, MIX "D", N70, 1 1/2"
- 8) PROPOSED LEVELING BINDER (MACHINE METHOD), N70, 3/4"

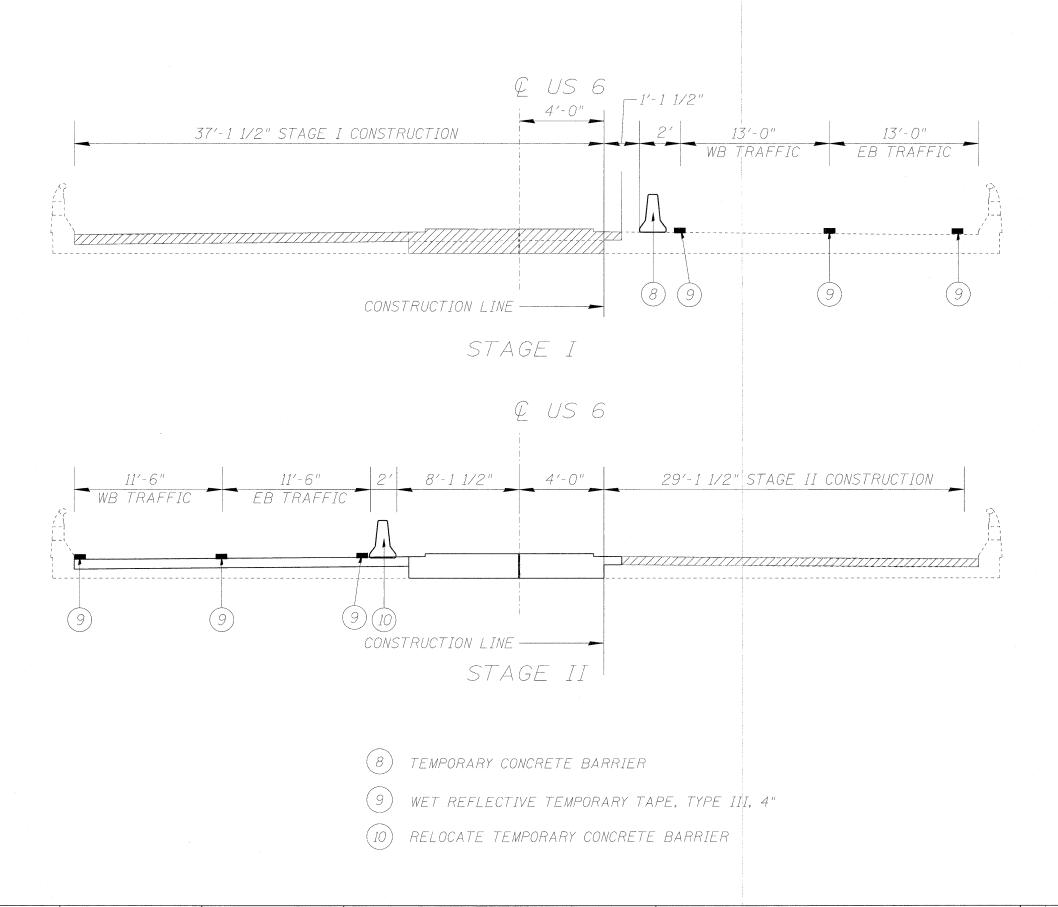
HOT-MIX ASPHALT MIXTURE REQUIREMENTS							
OPERATION	MIXTURE TYPE	DESIGN AIR VOIDS					
DO A DIVAY	HMA SURFACE COURSE, MIX "D", N70 (IL 9.5 mm)	4%. @ 70 GYR					
ROADWAY	LEVELING BINDER (MACHINE METHOD), N70	4% @ 70 GYR					
	HMA SURFACE COURSE, MIX "D", N70 (IL 9.5 mm)	4% @ 70 GYR					
SHOULDER	LEVELING BINDER (MACHINE METHOD), N70	4% @ 70 GYR					

#### NOTES:

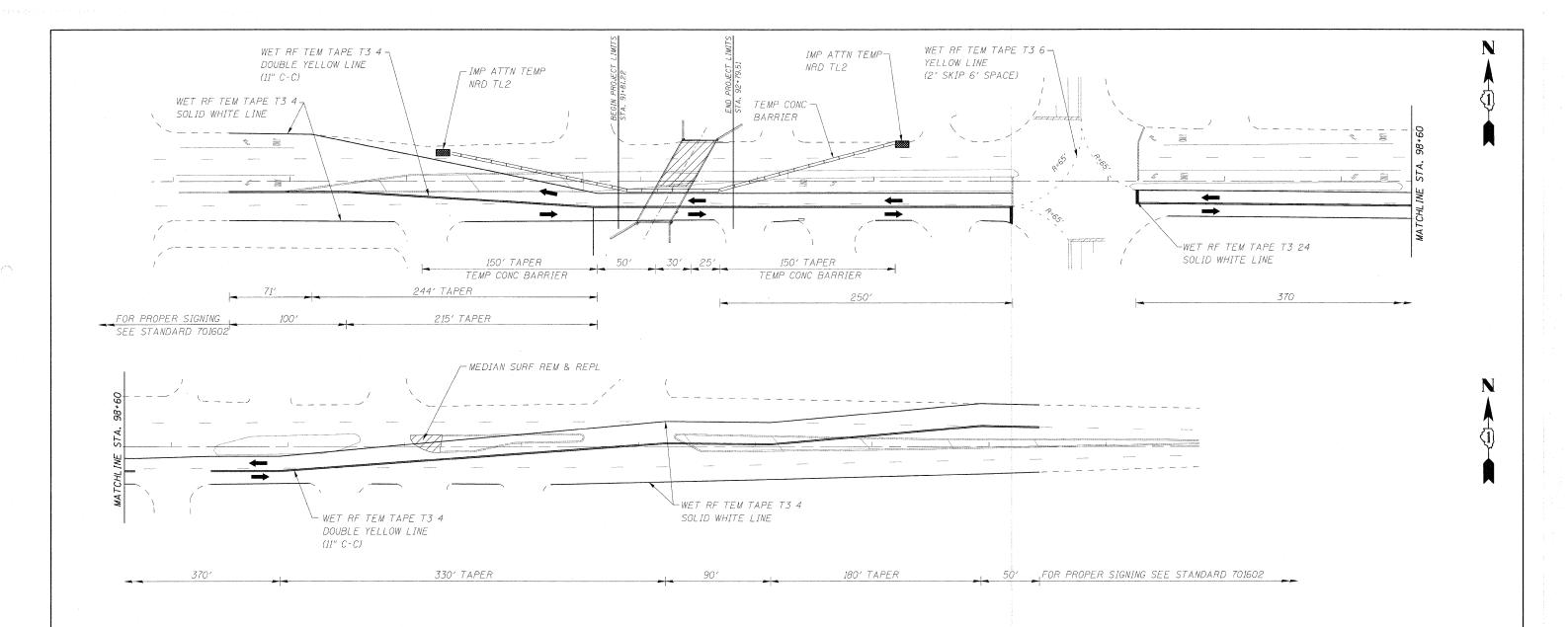
THE UNIT WEIGHT USED TO CALCULATE ALL HMA SURFACE COURSE MIXTURES IS 112 LBS/SQ-YD/IN.

FOR "AC TYPE" FOR POLYMERIZED HMA MIXES SHALL BE "SBS/SBR PG 70 -22" AND FOR NON-POLYMERIZED HMA THE "AC TYPE" SHALL BE "PG 64 -22" UNLESS MODIFIED BY DISTRICT ONE SPECIAL PROVISIONS. FOR "PERCENT OF RAP" SEE DISTRICT ONE SPECIAL PROVISIONS.

	DESIGNED - MJY			TYPICAL SEC	TIONS	F.A.P. RTE.	SECTION	COUNTY TOTAL SHEE
	DRAWN - ST,	rsc revised -	STATE OF ILLINOIS				539 B-1	C00K 21 5
CONSULTING ENGINEERS 1560 WALL ST. SUITE 222	CHECKED - MJY,	DC REVISED -	DEPARTMENT OF TRANSPORTATION	US 6 (159th STREET) OVER CALUMET UNION DITCH			D-91-226-10	CONTRACT NO. 60J36
NAPERVILLE, ILLINOIS 60563 PH: (630) 577-9100	DATE - 01/2	9/2010 REVISED -		SCALE: NONE SHEET NO. 5 OF 21 SHEETS	STA. 91+81.22 TO STA. 92+79.51	FED. ROAD	DIST. NO.   ILLINOIS FED.	AID PROJECT



		DESIGNED - MJY				STAGING TYPICAL	SECTIONS	F.A.P. RTE.	SECTION	COUNTY	TOTAL S	SHEET NO.
- 1		DRAWN - SLV	REVISED -	STATE OF ILLINOIS	lie	6 (159th STREET) OVER CA		351	539 B-1	соок	21	6
1	CONSULTING ENGINEERS 1560 WALL ST, SUITE 222	CHECKED - MJY, DC	REVISED -	DEPARTMENT OF TRANSPORTATION	00	(135th STILLT) OVER OF	TOME OF OUR DITOR		D-91-226-10	CONTRAC	CT NO. 60	0J36
Ĺ	NAPERVILLE, ILLINOIS 60563 PH: (630) 577-9100	DATE - 01/29/2010	REVISED -		SCALE: NONE	SHEET NO. 6 OF 21 SHEETS	STA. 91+81.22 TO STA. 92+79.51	FED. ROA	AD DIST. NO.   ILLINOIS FED. A	AID PROJECT		



#### LEGEND



WORK ZONE

o - BARRICADE W/ STEADY BURN LIGHT

L - TYPE III BARRICADE WITH FLASHING LIGHTS



- IMPACT ATTENUATORS

CONCRETE BARRIER

- DOUBLE VERTICAL PANEL

#### NOTES:

BARRICADE SPACING SHALL BE 25' CENTERS IN TAPER SECTIONS AND 50' CENTERS IN TANGENT SECTIONS.

VERTICAL PANELS SHALL BE USED WHEN BARRICADES CANNOT BE PLACED ON THE EXISTING PAVEMENT OR PAVED SHOULDER.

ALL SIGNS. BARRICADES AND OTHER TRAFFIC CONTROL DEVICES SHOWN ON THIS SHEET SHALL BE ACCORDING TO SECTION 701 OF THE STANDARD SPECIFICATIONS AND SHALL NOT BE PAID FOR SEPARATELY, BUT SHALL BE PAID FOR AT THE CONTRACT LUMP SUM PRICE FOR "TRAFFIC CONTROL AND PROTECTION (SPECIAL)." TEMPORARY AND PERMANENT PAVEMENT STRIPING WILL BE PAID SEPARATELY.

#### STAGE 1

- 1. INSTALL TRAFFIC CONTROL AND TEMPORARY CONCRETE BARRIER IN ACCORDANCE WITH STAGE I MAINTENANCE OF TRAFFIC AND STANDARD 701602.
- 2. COMPLETE REMOVAL OF 2" OF TOP OF DECK, NORTH PORTION OF EXISTING DECK SURFACE AND EXISTING APPROACH PAVEMENT.
- 3. INSTALL NEW BRDIGE DECK LATEX CONCRETE OVERLAY, 24".
- 4. CONSTRUCT NEW APPROACH PAVEMENT.
- 5. CONSTRUCT ROADWAY ON NORTH SIDE OF US 6 IN ACCORDANCE WITH SHEET 9.

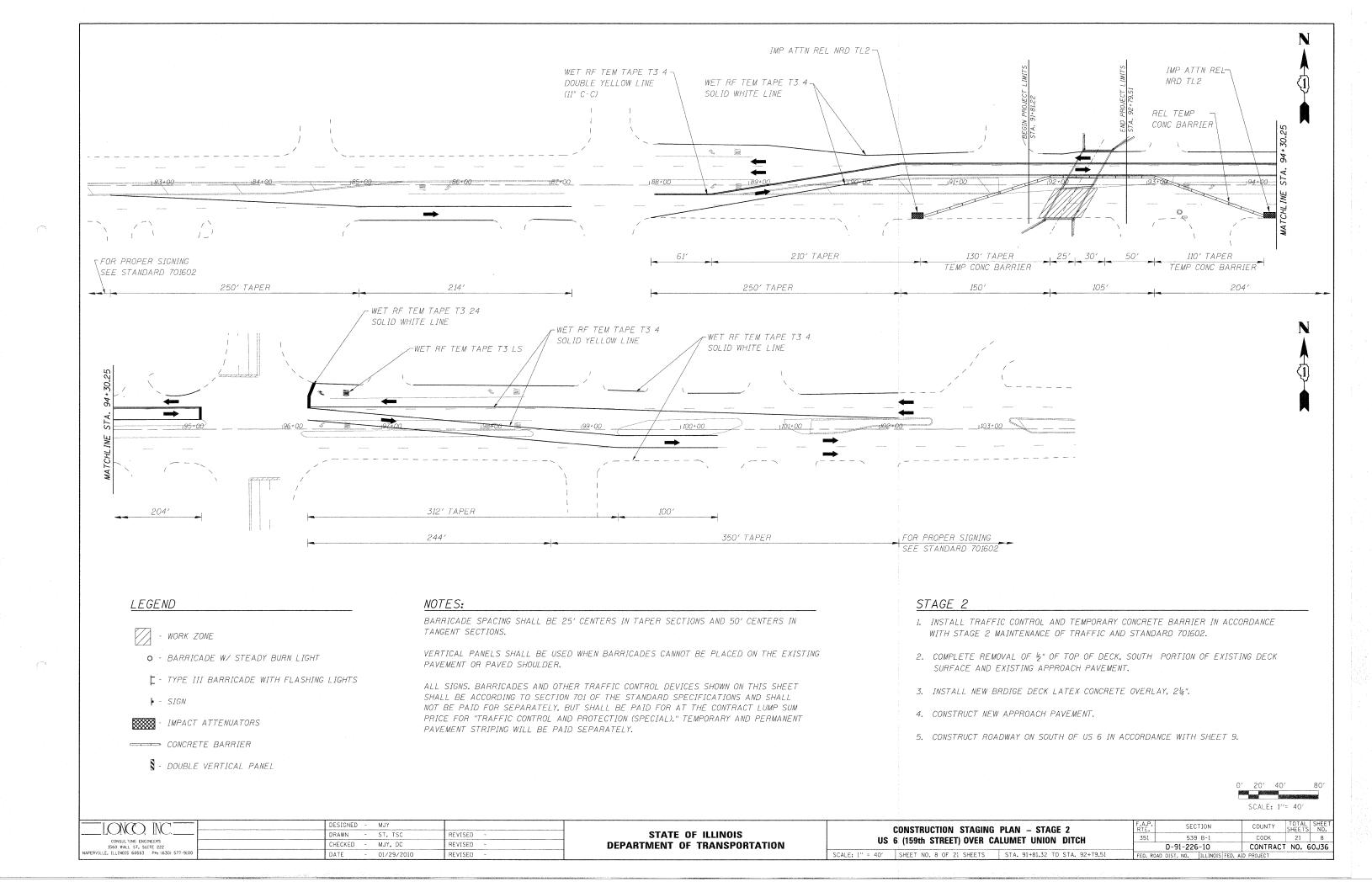
SCALE: 1"= 40"

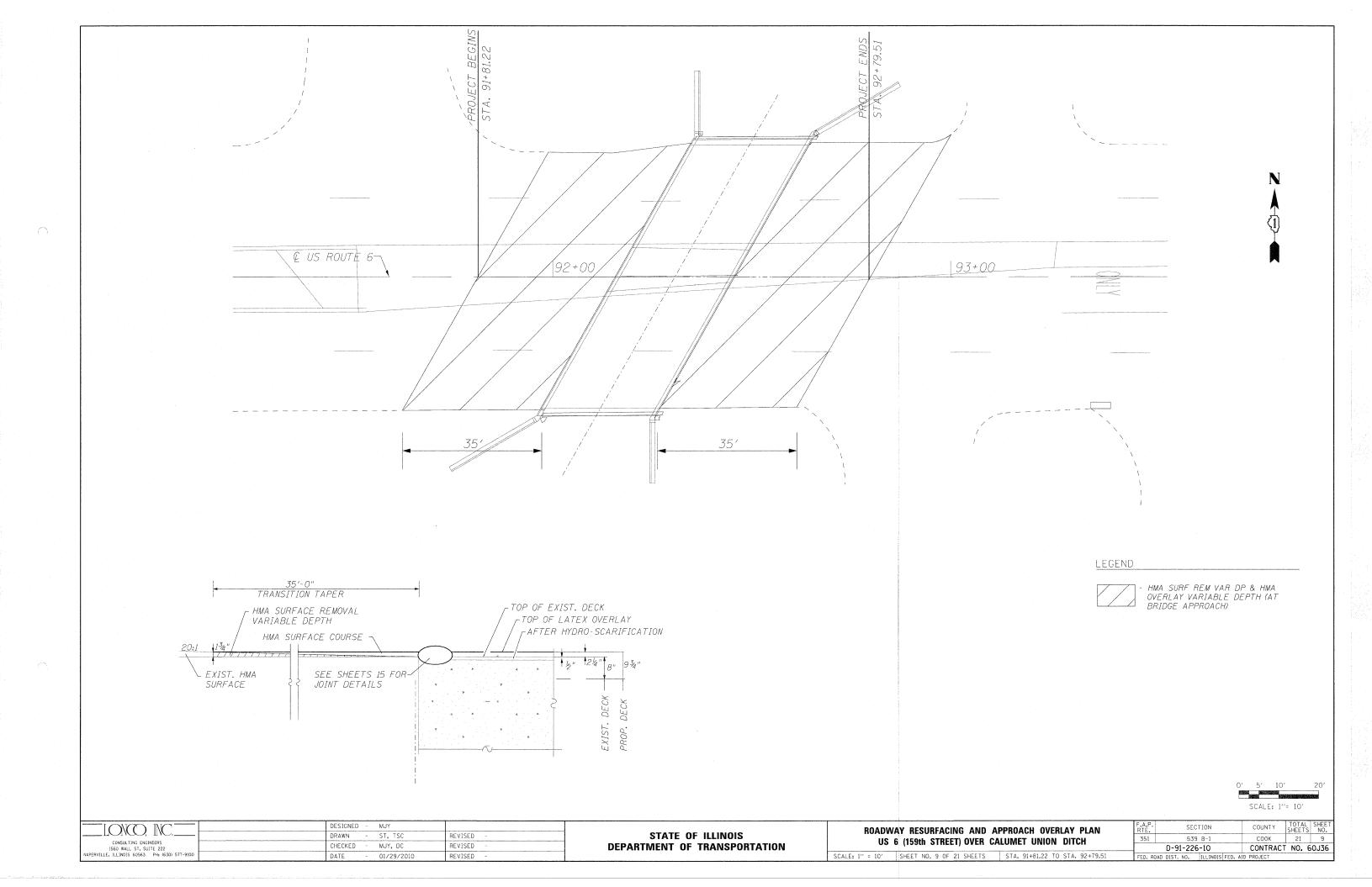
		DESIGNED -	MJY	
	,	DRAWN -	ST, TSC	REVISED -
CONSULTING ENGINEERS 1560 WALL ST, SUITE 222		CHECKED -	MJY, DC	REVISED -
NAPERVILLE, ILLINOIS 60563 PH; (630) 577-9100		DATE -	01/29/2010	REVISED -

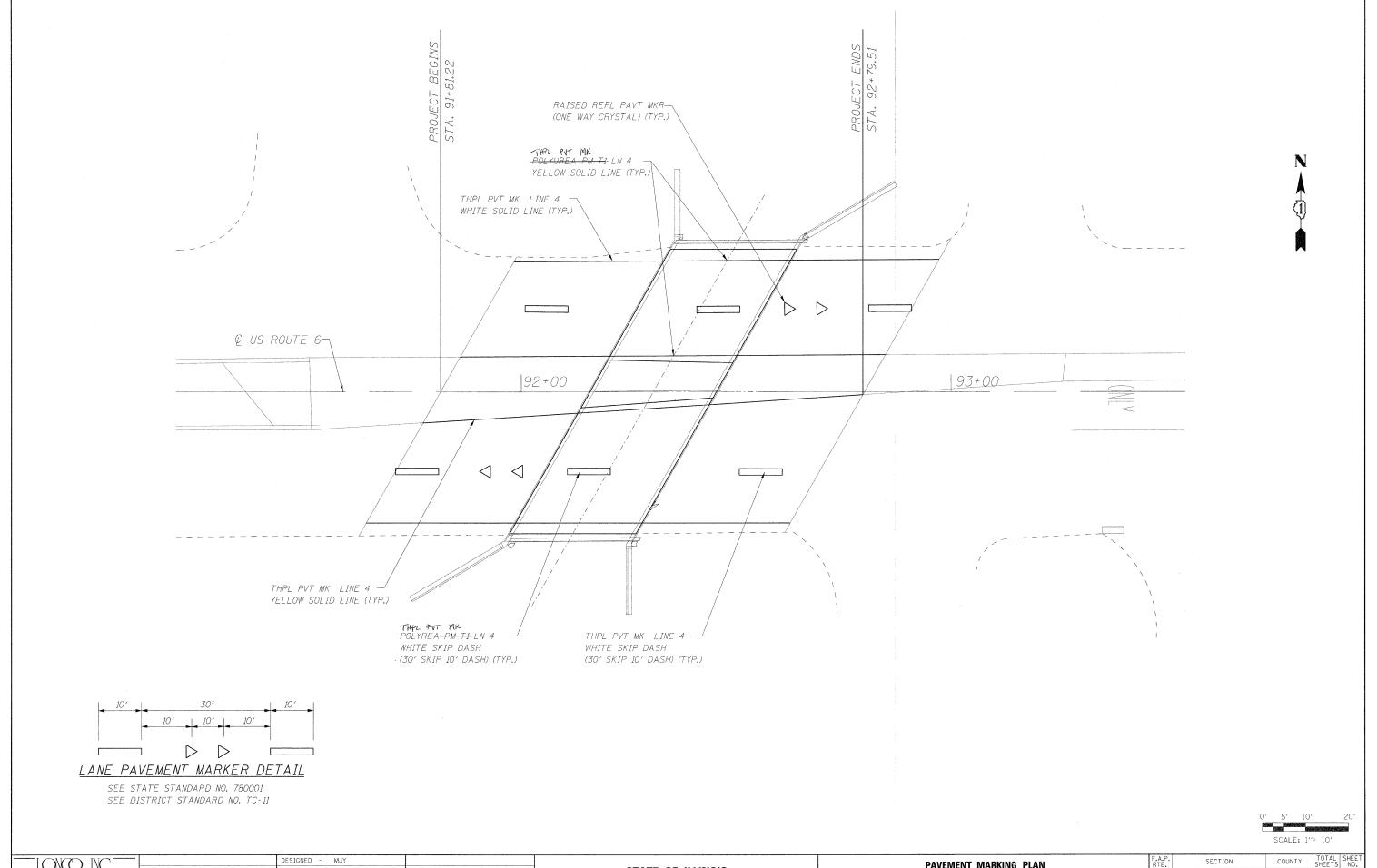
STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION** 

		CONSTRU	JCTION	STAGING	G PLAN – STAGE	1
	US	6 (159th	STREET	OVER C	CALUMET UNION	DITCH
SCALE: 1" =	40'	SHEET NO	, 7 OF 2	1 SHEETS	STA. 91+81.22 TO	STA. 92+79.51

_	F.A.P. RTE.	SEC	CTION		COUNTY	TOTAL SHEETS	SHE
	351	531	9 B-1		COOK	21	7
		D-91-22	6-10		CONTRACT	NO. 6	60J3
	FED. RO	DAD DIST. NO.	ILLINOIS	FED. AID	PROJECT		







	DESIGNED - MJY			PAVEMENT MARKING PLAN	F.A.P. SECTION	COUNTY TOTAL SHEE SHEETS NO.
CONSULTING ENGINEERS	DRAWN - ST, TSC	REVISED -	STATE OF ILLINOIS	US 6 (159th STREET) OVER CALUMET UNION DITCH	351 539 B-1	COOK 21 10
1560 WALL ST, SUITE 222	CHECKED - MJY, DC	REVISED -	DEPARTMENT OF TRANSPORTATION	OU O (133th Officer) Office Officer District	D-91-226-10	CONTRACT NO. 60J36
PERVILLE, ILLINOIS 60563 PH <sub>2</sub> (630) 577-9100	DATE - 01/29/2010	REVISED -		SCALE: 1" = 10'   SHEET NO. 10 OF 21 SHEETS   STA. 91+81.22 TO STA. 92+79.51	FED. ROAD DIST, NO.   ILLINOI	IS FED. AID PROJECT

Existing Structure:

29′-1½" II Construction

Structure No. 016-0386 was built in 1953 at Sta. 92+30.70 as S.B.I. Route 53 (F.A. Route 62), Section 539-BY. In 1975, under Section 1974-127-N, the sidewalks were removed and roadway was widened. Existing structure is a single span reinforced concrete slab bridge on closed abutments, measuring 30'-0" bk. to bk. abutments, 69'-9" out to out deck with a left ahead skew of 29°-32°. Stage construction shall be utilized to maintain traffic during construction.

Bk. of W. Abut.

PLAN

Existing 17" Slab

ELEVATION

#### STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

#### DESIGN SPECIFICATIONS

(New Construction)

2002 AASHTO "Standard Specifications for Highway Bridges"

#### DESIGN STRESSES

#### FIELD UNITS

Existing Construction

fc = 1,400 psi (Super)

fc = 800 psi (Sub)

fs = 20,000 psi (Reinforcement)

#### New Construction

f'c = 3,500 psl

fy = 60,000 psi (Reinforcement)

#### LOADING HS 20-44

(Original Construction)

#### SCOPE OF WORK

- 1. Remove existing HMA overlay 2. Hydroscarify  $^{l}_{2}$ " slab surface
- 3. Remove and replace concrete median and concrete below median within the limits of the bridge
- 4. Place 21/4" latex concrete overlay on deck
- 5. Repair abutment concrete
- 6. Repair corrugated metal pipe at the east abutment

#### INDEX OF SHEETS

- 1. General Plan and Elevation
- 2. Stage Construction Details
- 3. Temporary Concrete Barrier for Stage Construction
- 4. Concrete Removal
- 5. Median Concrete Details
- 6. Abutment Repair

#### GENERAL NOTES

Reinforcement bars shall conform to the requirements of ASTM A 706 Gr 60. See Special Provisions.

Reinforcement bars designated (E) shall be epoxy coated.

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

#### TOTAL BILL OF MATERIAL

ITEM	UNIT	SUPER	SUB	TOTAL
Hot-Mix Asphalt Surface Removal (Deck)	Sq. Yd.	180	-	180
Concrete Removal	Cu. Yd.	21.2	-	21.2
Concrete Superstructure	Cu. Yd.	21.7	-	21.7
Bridge Deck Grooving	Sq. Yd.	172	-	172
Protective Coat	Sq. Yd.	218	-	218
Reinforcement Bars, Epoxy Coated	Pound	4,880	-	4,880
Polymer Concrete	Cu. Ft.	6.1	-	6.1
Bridge Deck Latex Concrete Overlay, 21/4"	Sq. Yd.	182	-	182
Structural Repair Concrete (Depth Greater Than 5 in.)	Sq. Ft.	-	14	14
Structural Repair Concrete (Depth Equal To or Less Than 5 in)	Sq. Ft.	-	80	80
Insertion Culvert Liner (Special)	Foot	-	50	50
Bridge Deck Hydro-scarification 12"	Sq. Yd.	186		186

Range 14E - 3rd, PM Proposed Rehabilitation

LOCATION SKETCH

GENERAL PLAN AND ELEVATION US RTE 6 (159th ST.) OVER CAL UNION DITCH F.A.P. RTE. 351 SECTION 539 B-I COOK COUNTY

STRUCTURE NO. 016-0386



SHEET NO.1 6 SHEETS

TOTAL SHEET NO. SECTION COUNTY 351 539 B-I COOK 21 11 CONTRACT NO. 60J36 ILLINOIS FED. AID PROJECT

- Stage Const. Line

Michael J. Hel

Michael T. Haley

2/1/10

- € US 6

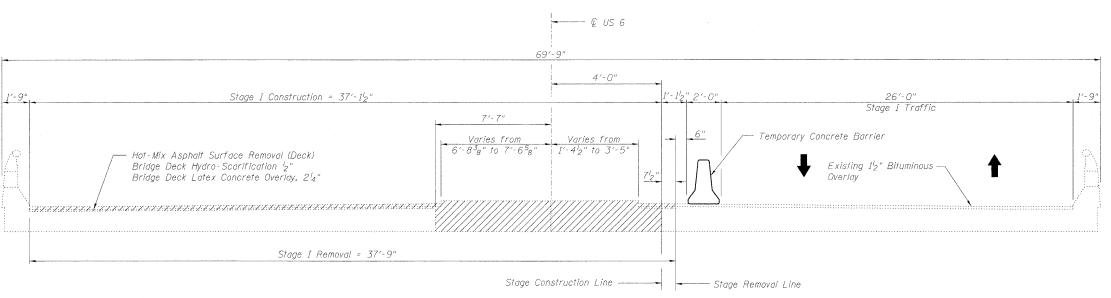
Bk. of E. Abut.

€ Cal Union Ditch

29°32,

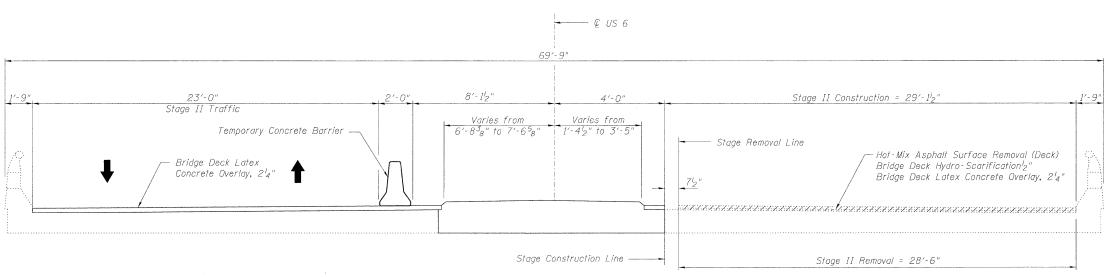
30'-0" Bk. to Bk. Abutments

Licensed Structural Engineer State of Illinois No. 81-5991 Expires 11/30/2010



#### STAGE I REMOVAL & CONSTRUCTION

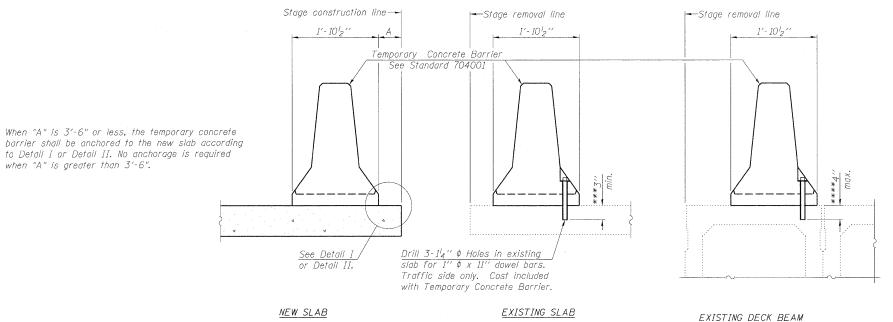
(Looking East)



STAGE II REMOVAL & CONSTRUCTION (Looking East)

### STAGE CONSTRUCTION DETAILS STRUCTURE NO. 016-0386

LINE	LIN ENGINEERING,LTD.	SHEET NO.2	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
E	Consulting Engineers Chatham Illinois	011221 11012	351	539 B-I	COOK	21	12
		6 SHEETS			CONTRACT	NO. 6	0J36
Designed By: TBP Date: 1/2010	Checked By: MTH Drawn By: TBP File: 016-0386.dgn			ILLINOIS FED. A	ID PROJECT		



#### NOTES

Detail I - With Bar Splicer or Couplers:

Connect one (1) 1"x7"x10" steel ₧ to the
top layer of couplers with 2-5<sub>8</sub>" ¢ bolts
screwed to coupler at approximate ₧ 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 2-5g" \$\phi\$

Expansion Anchors or cast in place inserts spaced between the top layer of reinforcement at approximate \$\mathbb{Q}\$ of each barrier panel.

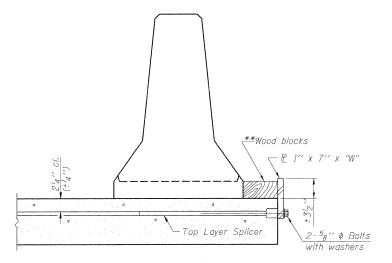
Cost of anchorage is included with Temporary Concrete Barrier. The 1" x 7" x 10" plate shall not be removed until stage II construction forms and all reinforcement bars are in place and the concrete is ready to be placed.

#### SECTIONS THRU SLAB OR DECK BEAM

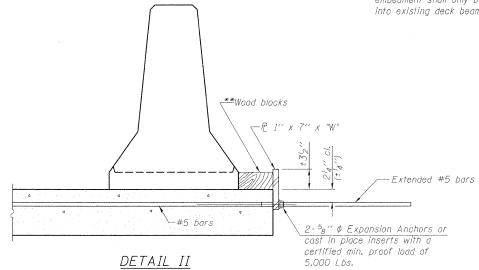
\*\*\* Dimension shown is minimum required embedment into concrete.

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.

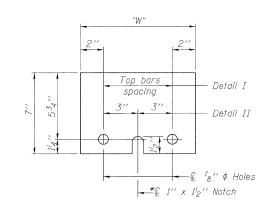


<u>DETAIL I</u>



\*\* 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.

"W" = Top bars spacing + 4"



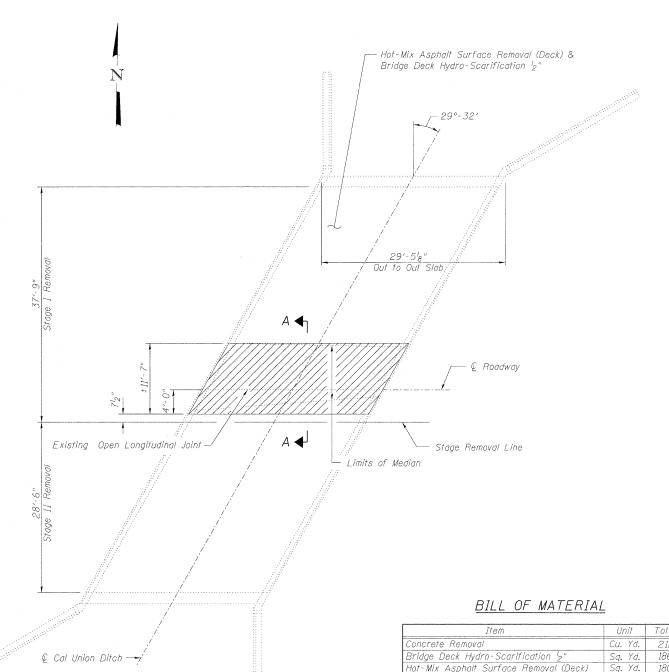
#### STEEL RETAINER P 1" x 7" x 10"

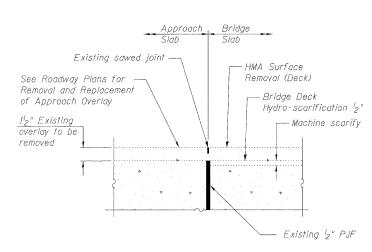
\* Required only with Detail II

FOR STAGE CONSTRUCTION
STRUCTURE NO. 016-0386

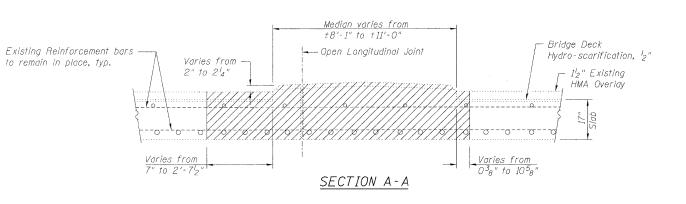
E	IN ENGINEER Consulting Eng	gineers	SHE
Designed By: YWK	Checked By: MTH	Drawn By: YWK	
Date: 1/2010	File: 016-0386.dgn		

SHEET NO.3	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
SHEET NO.5	351	539 B-I	COOK	21	13
6 SHEETS			CONTRACT	NO. 6	60J36
		ILLINOIS FED. A	ID PROJECT		





#### EXISTING FIXED JOINT DETAIL



Item	Unit	Total
Concrete Removal	Cu. Yd.	21.2
Bridge Deck Hydro-Scarification 12"	Sg. Yd.	186
Hot-Mix Asphalt Surface Removal (Deck)	Sq. Yd.	180

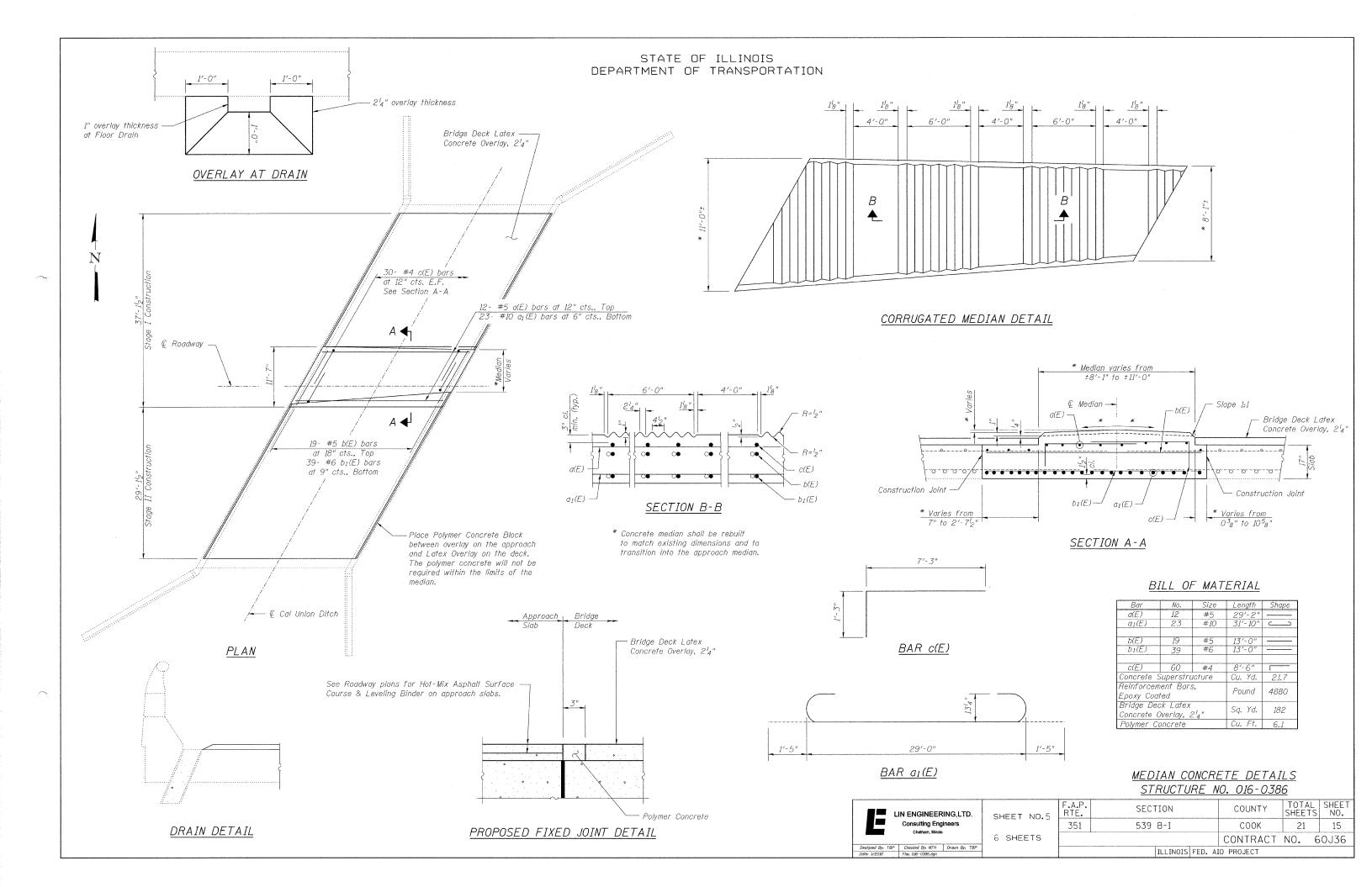
PLAN

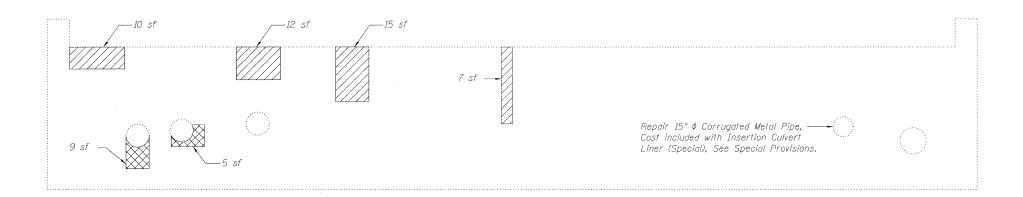
Notes:

- Hatched area indicates concrete removal.
   Existing reinforcement bars in the concrete removal area extending in new construction shall be cleaned and incorporated into the new construction. Cost included with Concrete Removal.
- 3. Any reinforcement bars that are damaged during concrete removal operations shall be repaired or replaced using an approved bar splicer or anchorage system, in accordance with IDOT Standard Specifications Article 501.03. Cost included in "Concrete Removal".

#### CONCRETE REMOVAL STRUCTURE NO 016-0386

			STRUCTURE N	10. 016-030	<u>0</u>	
LIN ENGINEERING,LTD.	SHEET NO.4	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
Consulting Engineers  Chatham, Illinois		351	539 B-I	соок	21	14
Chatham, lilinois	6 SHEETS			CONTRACT	NO. 6	0J36
Designed By: TBP Checked By: MTH Drawn By: TBP  Date: 1/2010 File: 016-0396.dgn			ILLINOIS FED. A	ID PROJECT		





#### EAST ABUTMENT ELEVATION



#### BILL OF MATERIAL

Item	Unit	Total
Structural Repair of Concrete (Depth Greater Than 5 in.)	Sq. Ft.	14
Structural Repair of Concrete (Depth Equal To or Less Than 5 in.)	Sq. Ft.	80
Insertion Culvert Liner (Special)	Foot	50

ABUTMENT REPAIR

STRUCTURE NO. 016-0386

21 16

#### WEST ABUTMENT ELEVATION

#### <u>LEGEND</u>

Structural Repair of Concrete (Depth Equal To or Less Than 5 in.)

Structural Repair of Concrete (Depth Greater Than 5 in.)

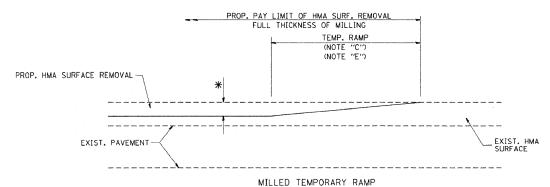
sf Square Feet

Repair of the existing abutments shall include but may not be limited to the areas shown. The actual areas to be repaired will be determined by the Engineer at the time of construction.

SHEET NO.6

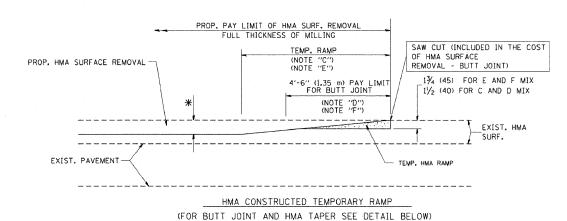
COUNTY SECTION 351 539 B-I COOK 6 SHEETS CONTRACT NO. 60J36 ILLINOIS FED. AID PROJECT

LIN ENGINEERING,LTD. Consulting Engineers

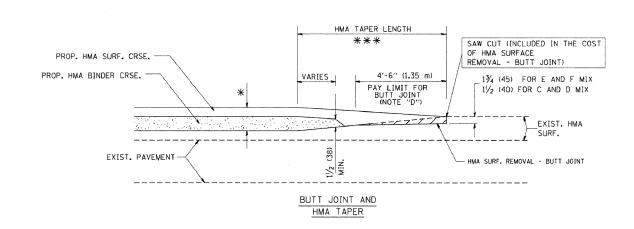


(FOR BUTT JOINT AND HMA TAPER SEE DETAIL BELOW)

#### OPTION 1

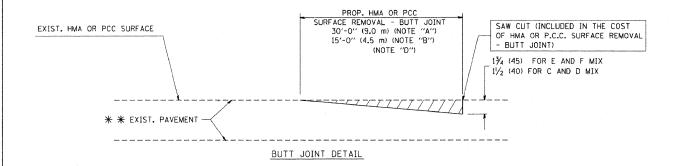


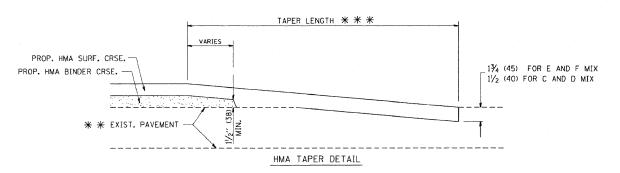
## OPTION 2 TYPICAL TEMPORARY RAMP



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

REVISED	-	R. SHAH 10-25-94
REVISED	-	A. ABBAS 03-21-97
REVISED	-	M. GOMEZ 04-06-01
REVISED	-	R. BORO 01-01-07





### 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
- 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")

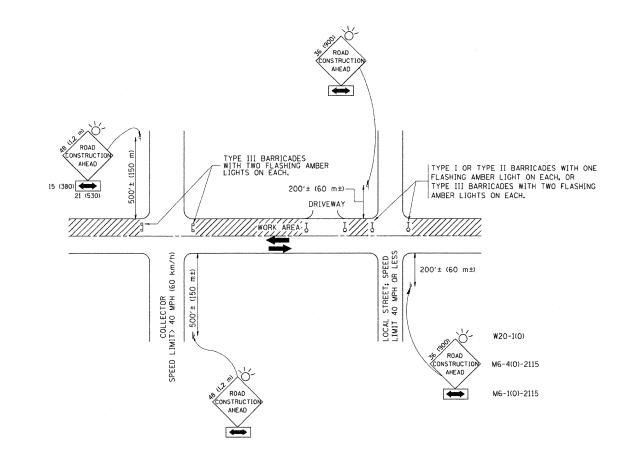
#### BASIS OF PAYMENT:

THE BUTT JOINT WILL BE PAID FOR AT THE CONTRACT UNIT PRICE PER 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 (MILLIMETERS) UNLESS OTHERWISE SHOWN.

#### **BUTT JOINT AND HMA TAPER DETAILS**

	USER NAME = \$USER\$	DESIGNED - MJY			DISTRICT ONE DETAIL SHEETS	F.A.P. SECTION	COUNTY TOTAL SHEE
CONCIN THE PROPERTY		DRAWN - ST, ISC	REVISED -	STATE OF ILLINOIS	US 6 (159th STREET) OVER CALUMET UNION DITCH	351 539 B-1	COOK 21 17
CONSULTING ENGINEERS 1560 WALL ST, SUITE 222	PLOT SCALE = \$SCALE\$	CHECKED - MJY	REVISED -	DEPARTMENT OF TRANSPORTATION	OS O (135th STREET) OVER CALCUMET STRONG BITCH	D-91-226-10	CONTRACT NO. 60J36
NAPERVILLE, ILLINOIS 60563 PH: (630) 577-9100	PLOT DATE = #DATE#	DATE - 01/29/2010	REVISED -		SCALE: NONE   SHEET NO. 17 OF 21 SHEETS   STA. 91+81.22 TO STA. 92+79.51	FED. ROAD DIST. NO. ILLINOIS FED.	AID PROJECT



#### NOTES:

- A. FOR NO LANE RESTRICTION ON THE SIDE ROAD OR DRIVEWAYS
- 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:
- O) 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 CREATER THAN 40 MPH (60 km/h) AS SHOWN ON THE DRAWING AND AS DIRECTED BY THE ENGINEER:
- o) ONE ROAD CONSTRUCTION AHEAD SIGN 48  $\times$  48 (1.2 m  $\times$  1.2 m) WITH A FLASHER MOUNTED ON IT 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).

- B. FOR A LANE CLOSURE ON A SIDE ROAD OR DRIVEWAY:
- USE APPLICABLE PORTIONS OF THE TYPICAL APPLICATION OF TRAFFIC CONTROL DEVICES (STD. 70150), STD. 701606 OR THE APPROPRIATE STANDARD). THE SPACING OF SIONS 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,

REVISED	-	J.	OBERLE	10-18-95
REVISED	-	Α.	HOUSEH	03-06-96
REVISED	-	A.	HOUSEH	10-15-96
REVISED	-1	R	AMMACHE	R 01-06-00

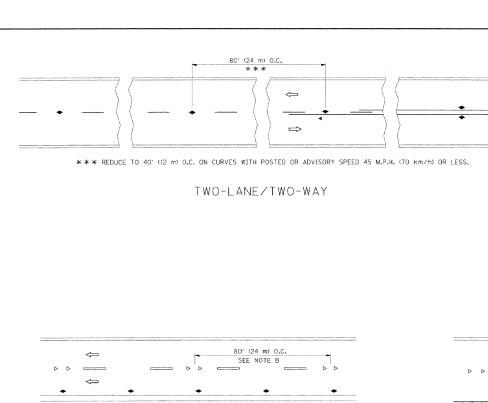
All dimensions are in millimeters (inches) unless otherwise shown.

COUNTY

CONTRACT NO. 60J36

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

CONSULTING ENGINEERS 1560 WALL ST. SUITE 222	USER NAME = SUSERS PLOT SCALE = SSCALES	DESIGNED - MJY DRAWN - ST, TSC CHECKED - MJY	REVISED - REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	US	DISTRICT ONE DET 6 (159th STREET) OVER CA		351 5	SECTION 539 B-1 <b>226-10</b>
NAPERVILLE, ILLINOIS 60563 PH: (63	)) 577-9100 PLOT DATE = \$DATE\$	DATE - 01/29/2010	REVISED -		SCALE: NONE	SHEET NO. 18 OF 21 SHEETS	STA. 91+81.22 TO STA. 92+79.51	FED. ROAD DIST. NO.	ILL INOIS



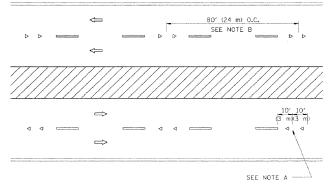
MULTI-LANE/UNDIVIDED

3 @ 80' (24 m) O.C.

 $\Rightarrow$ 

SEE NOTE A

40′ (12 m) 0.C.



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

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

LEFT TURN

 $\Rightarrow$ 

### MULTI-LANE/DIVIDED

3 € 40′ (12 m)

#### GENERAL NOTES

3 e 40' (12 m) O.C.

LANE REDUCTION TRANSITION

-- 3 @ 80′ (24 m) O.C.

- 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.
- 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

- A. USE DOUBLE LANE LINE MARKERS SPACED AS SHOWN.
- 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.

#### SYMBOLS

---- YELLOW STRIPE

SEE NOTE A

TWO-WAY LEFT TURN

80' (24 m) O.C. SEE NOTE B

40' ([2 m) 0,C.

- 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.
- 2. 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.

 REVISED
 - T. RAMMACHER 09-19-94

 REVISED
 - T. RAMMACHER 03-12-99

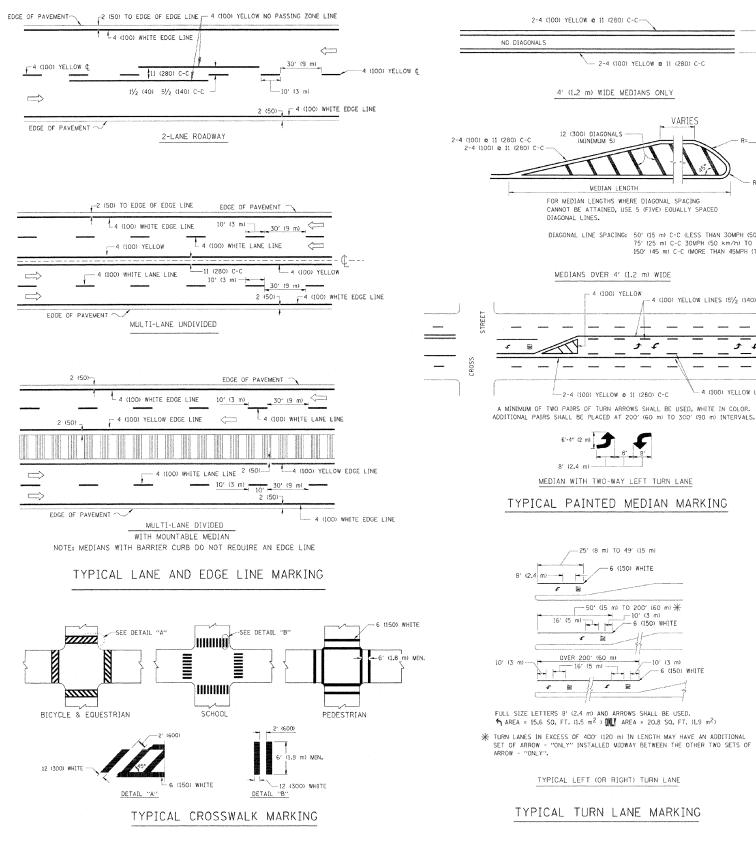
 REVISED
 - T. RAMMACHER 01-06-00

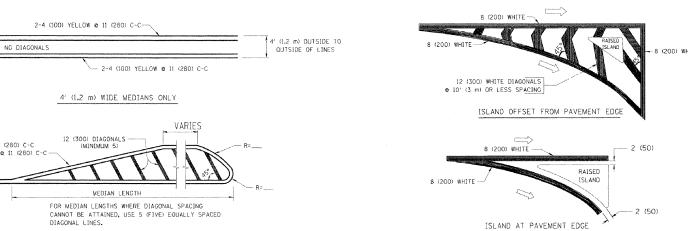
 REVISED
 - C. JUCIUS 09-09-09

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

# TYPICAL APPLICATIONS RAISED REFLECTIVE PAVEMENT MARKERS (SNOW-PLOW RESISTANT)

COUNTY SECTION DISTRICT ONE DETAIL SHEETS ST, TSC STATE OF ILLINOIS DRAWN REVISED US 6 (159th STREET) OVER CALUMET UNION DITCH ~ MJY **DEPARTMENT OF TRANSPORTATION** PLOT SCALE : \$SCALE\$ CHECKED REVISED CONTRACT NO. 60J36 D-91-226-10 SHEET NO. 19 OF 21 SHEETS STA. 91+81.22 TO STA. 92+79.51 01/29/2010





#### TYPICAL ISLAND MARKING

	TYPE OF MARKING	WIDTH OF LINE	PATTERN	COLOR	SPACING / REMARKS
OW LINES (51/2 (140) C-C)	CENTERLINE ON 2 LANE PAVEMENT	4 (100)	SKIP-DASH	YELLOW	10' (3 m) LINE W1TH 30' (9 m) SPACE
уудуу дуун томж үрүүдү төгө төрүү харуу төгөөгөөн колдонуу төгөөн колдонуу төгөөн колдонуу төгөөгөөгөөгөө колдонуу төгөөгөөгөө колдонуу төгөөгөөгөөгөөгөөгөөгөөгөөгөөгөөгөөгөөгө	CENTERLINE ON MULTI-LANE UNDIVIDED 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	AEFFOM AEFFOM	5½ (140) C-C FROM SKIP-DASH CENTERLINE 111 (280) C-C OMIT SKIP-DASH CENTERLINE BETWEEN
MARKETTE COMPANY	LANE LINES	4 (100) 5 (125) ON FREEWAYS	SKIP-DASH SKIP-DASH	WHITE WHITE	10' (3 m) LINE WITH 30' (9 m) SPACE
-4 (100) YELLOW LINES (5½ (140) C-C)	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
WHITE IN COLOR. (90 m) INTERVALS.	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
RKING		8' (2,4m) LEFT ARROW	IN PAIRS	WHITE	SEE TYPICAL TWO-WAY LEFT TURN MARKING DETAIL
NTINO	CROSSWALK LINES (PEDESTRIAN) A. DIAGONALS (BIKE & EQUESTRIAN) B. LONGITUDINAL BARS (SCHOOL)	2 @ 6 (150) 12 (300) @ 45° 12 (300) @ 90°	SOLID SOLID SOLID	WHITE WHITE WHITE	NOT LESS THAN 6' (1.8 m) APART 2' (600) APART 2' (500) APART 5EE TYPICAL CROSSWALK MARKING DETAILS.
	STOP LINES	24 (600)	SOLID	WHITE	PLACE 4' 11.2 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	II (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 (OVER 45MPH (70 km/h))
те	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 0F: "R"23.6 SO. FT. (0,33 m²) EACH "X":54.0 SO. FT. (5.0 m²)
	SHOULDER DIAGONALS	12 (300) <b>@</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 (OVER 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.

TYPICAL LEFT (OR RIGHT) TURN LANE

TYPICAL TURN LANE MARKING

REVISED	-T.	RAMMACHER	10-27-94
REVISED	-C,	JUCIUS	09-09-09
REVISED	-		
REVISED			

### **DISTRICT ONE TYPICAL PAVEMENT MARKINGS**

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))

MEDIANS OVER 4' (1.2 m) WIDE

-2-4 (100) YELLOW @ 11 (280) C-C

MEDIAN WITH TWO-WAY LEFT TURN LANE

16' (5 m) TO 200' (60 m) \*

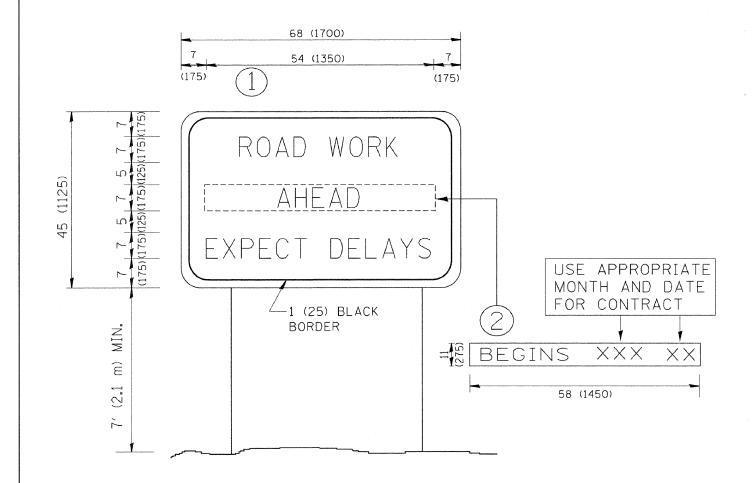
6 (150) WHITE

8' (2.4 m)-----

150' (45 m) C-C (MORE THAN 45MPH (70 km/h))

4 (100) YELLOW LINES (51/2 (140) C-C)

DESIGNED WITH SUBERTS  CONSULTING ENGINEERS  DRAWN - ST, TSC  CONSULTING ENGINEERS  DRAWN - ST, TSC  REVISED -  STATE OF ILLINOIS  DISTRICT ONE DETAIL SHEETS  US 6 (159th STREET) OVER CALUMET UNION DITCH  D-91-226-10  CONTRACT  D-91-226-10  D-91-226-10	FOTAL SHEET SHEETS NO.
	21 20
	NO. 60J36
NAPERVILLE. ILLIMOIS 60563 PH. 6330 577-9100 PLOT DATE = SDATES	



#### 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.

REVISED	-	R, MIRS 09-15-97
REVISED	-	R. MIRS 12-11-97
REVISED	~T.	RAMMACHER 02-02-99
REVISED	-	C. JUCIUS 01-31-07

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

### ARTERIAL ROAD INFORMATION SIGN

-		USER NAME = \$USER\$	DESIGNED - MJY				DISTRICT ONE DETAIL SHEETS	F.A.P. RTE.	SECTION	COUNTY TO	OTAL SHEET HEETS NO.
-			DRAWN - SI, IS	SC REVISED -	STATE OF ILLINOIS	US		351	539 B-1	COOK 2	21 21
	CONSULTING ENGINEERS 1560 WALL ST. SUITE 222	PLOT SCALE = \$SCALE\$	CHECKED - MJY	REVISED -	DEPARTMENT OF TRANSPORTATION	03	O (135th STREET) OVER CALONIET ONION DITOR		D-91-226-10	CONTRACT N	NO. 60J36
N	NAPERVILLE, ILLINOIS 60563 PH: (630) 577-9100	PLOT DATE = \$DATE\$	DATE - 01/29/	/2010 REVISED -		SCALE: NONE	SHEET NO. 21 OF 21 SHEETS STA. 91+81.22 TO STA. 92+79.51	FED. R	DAD DIST. NO.   ILLINOIS FE	D. AID PROJECT	