STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION DIVISION OF HIGHWAYS**

PROPOSED HIGHWAY PLANS

F.A.P. ROUTE 324: IL 23 **OVER COON CREEK** SECTION 24B-I PPC DECK BEAM REPLACEMENT **MCHENRY COUNTY** C-91-126-08

FOR INDEX OF SHEETS, SEE SHEET NO. 2

IMPROVEMENT LOCATED IN RILEY TOWNSHIP

TRAFFIC DATA

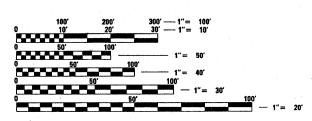
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2007 ADT = 2200 POSTED SPEED LIMIT = 55 MPH

> **IMPROVEMENT LOCATION** SN 056-0012

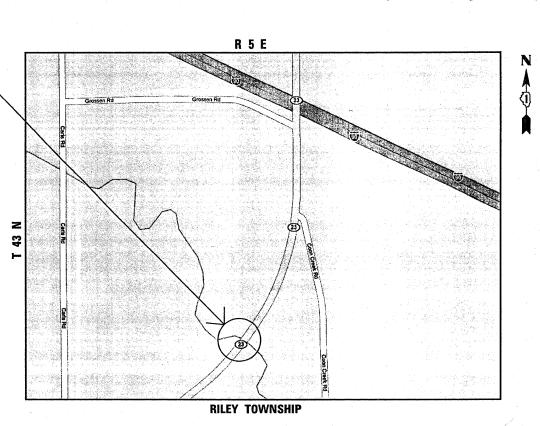


ENGINEERING SCALES. REDUCED SIZED PLANS WILL NOT CONFORM TO STANDARD SCALES. IN MAKING MEASUREMENTS ON REDUCED PLANS, THE ABOVE SCALES MAY BE USED.

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

PROJECT ENGINEER KEN ENG PROJECT MANAGER ROBERT BORO (847) 705-4178

CONTRACT NO. 60D92



LOCATION OF SECTION INDICATED THUS: -STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION **DIVISION OF HIGHWAYS**

SUBMITTED FEBRUARY 22, 20 08 Deputy DIRECTOR OF HIGHWAYS, REGION ENGINEER Sutorin ENGINEER OF DESIGN AND ENVIRONMENT PRINTED BY THE AUTHORITY

24 B-I

D-91-126-08

OF THE STATE OF ILLINOIS

INDEX OF SHEETS

SH	EETING	DESCRIPTION
	1	TITLE SHEET
	2	INDEX OF SHEETS, STATE STANDARDS, GENERAL NOTES
	3	SUMMARY OF QUANTITIES
	4-6	BRIDGE REPAIRS
	7	TRAFFIC STAGING PLAN
	8-11	TRAFFIC STAGING LIGHTING PLAN
	12	TRAFFIC CONTROL AND PROTECTION FOR SIDEROADS, INTERSECTIONS, AND DRIVEWAYS (TC-10)
	13	DISTRICT ONE TYPICAL PAVEMENT MARKING (TC-13)

GENERAL NOTES

BEFORE STARTING ANY EXCAVATION, THE CONTRACTOR SHALL CALL "J.U.L.I.E." AT (800) 892-0123 OR 811 FOR FIELD LOCATIONS OF BURIED ELECTRIC, TELEPHONE, AND GAS UTILITIES. 48 HOUR NOTIFICATION IS REQUIRED.

THE CONTRACTOR SHALL COORDINATE CONSTRUCTION ACTIVITIES WITH THE 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.

ALL DAMAGE TO EXISTING PAVEMENT MARKINGS OR RAISED REFLECTIVE PAVEMENT MARKERS OUTSIDE THE REMOVAL LINE SHOWN ON THE PLANS SHALL BE REPLACED AT NO ADDITIONAL COST TO THE DEPARTMENT.

BEFORE BEGINNING ANY WORK, THE CONTRACTOR SHALL RETAIN AND RECORD FOR FUTURE REFERENCE, 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 PAVEMENT MARKINGS SHALL BE AS DIRECTED BY THE ENGINEER.

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

STATE STANDARDS

STANDARD NO.	DESCRIPTION
701301-02	LANE CLOSURE, 2L, 2W, SHORT TIME OPERATIONS
701321-09	LANE CLOSURE, 2L, 2W, BRIDGE REPAIR WITH BARRIER
701901	TRAFFIC CONTROL DEVICES
704001-04	TEMPORARY CONCRETE BARRIER

THE CONTRACTOR SHALL CONTACT THE DISTRICT ONE TRAFFIC CONTROL SUPERVISOR AT (847) 741- 4470 A MINIMUM OF 72 HOURS IN ADVANCE OF BEGINNING WORK.

THE CONTRACTOR SHALL CONTACT DEBBIE HANLON, TRAFFIC FIELD ENGINEER AT 847-438-2300 A MINIMUM OF TWO (2) WEEKS PRIOR TO THE PLACEMENT OF PERMANENT PAVEMENT MARKINGS.

THESE PLANS HAVE BEEN PREPARED FROM NOTES RECEIVED FROM BRIDGE INSPECTORS.

DO NOT SCALE PLANS FOR CONSTRUCTION DIMENSIONS.

THE CONTRACTOR SHALL BE REQUIRED TO PROVIDE ACCESS TO ABUTTING PROTERTY AT ALL TIMES DURING THE CONSTRUCTION OF THIS PROJECT.

CONCRETE WEARING SURFACE SHALL HAVE A SEVEN DAY MINIMUM CURE TIME.

The Department has determined that in stream work is not required for the work specified in this contract. Activities requiring an ASCOE 404 Permit are not permitted.

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 c:\projects\d!12608\designaa.dgn		DRAWN -	REVISED -	STATE OF ILLINOIS	1		· · · · · · · · · · · · · · · · · · ·	324	24 B-I	MCHENRY	13 2
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	PLOT DATE = 3/7/2008	DATE -	REVISED -		SCALE:	SHEET NO. OF SHEETS STA	. TO STA.	FED. ROAD	DIST. NO. 1 ILLINOIS FED. AT		

-	F.A.P. RTE.	SECTION		COUNT	Y	TOTAL SHEETS	SHEET NO.
	324	24 B-I	B-I MCHENRY			13	3
	FED.	ROAD DIST, NO. 1	TEL	INOIS	HIG	HWAY PRO	JECT

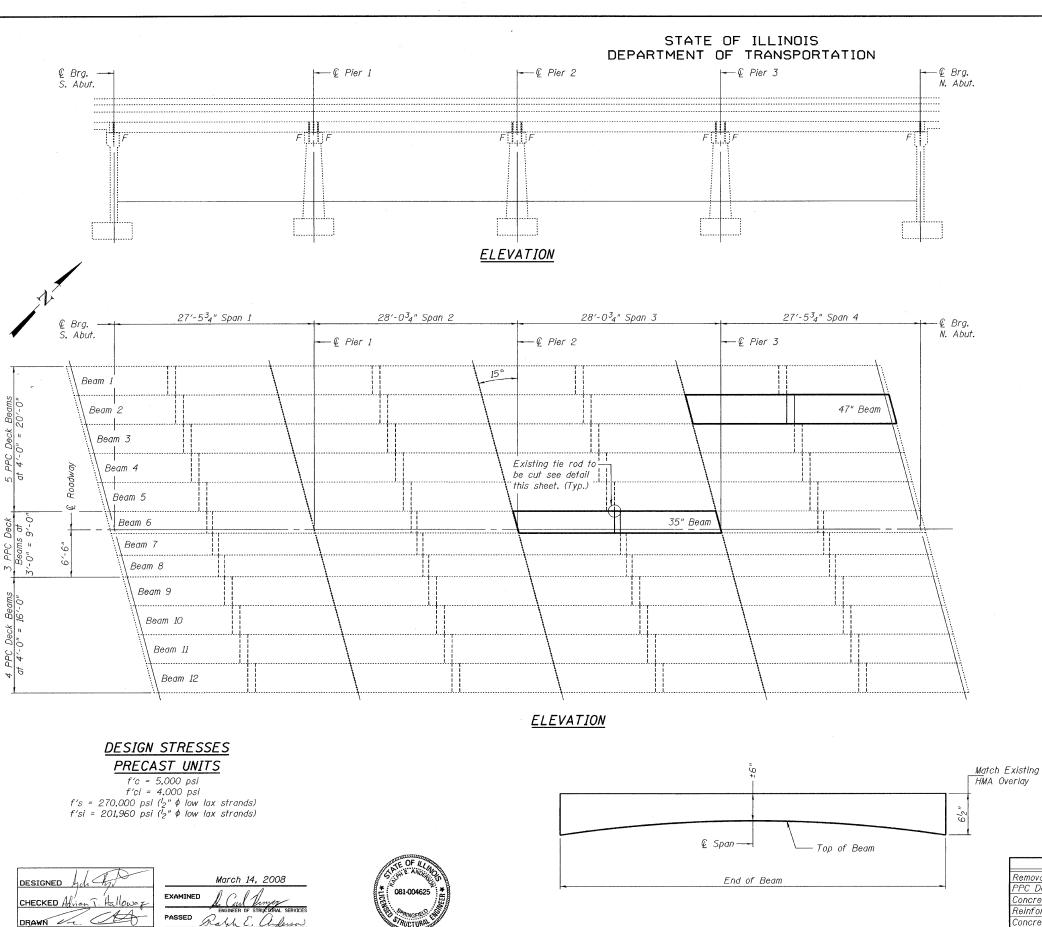
CONTRACT 60D92

	SUMMARY OF QUANTITIES		URBAN	Timin n	CONS	TRUCTION T	TYPE CODE	SFTY-2A		1: [CLIM	MARY OF QUAI	UTITIES		URBAN/	5		CONTRACT		CODE SMY	-2N
	SUMMART OF QUANTITIES	T	100% STATE	CH						1	J	WART OF QUAL	AIIIIE2	T	1007.57978	CNI					T
CODE NO	ITEM	UNIT	QUANTITIES	SN 056-0012	-					CODE NO		ITEM	ज	UNIT	TOTAL QUANTITIES	SN 056-0012					
50300300	PROTECTIVE COAT	SO YD	29. 1	29. 1		4 T				X0325949		VICE DISONNECT, I	_ I GHT I NG	EACH	1	1					
50301200	CONCRETE WEARING SURFACE	SO YD	29. 1	29. 1							AND TRAFFIC									1	
50400305	PRECAST PRESTRESSED CONCRETE DECK BEAMS (17" DEPTH)	SO FT	192	192	.*					X0325948		GHTING SYSTEM REM		L SUM	1 ₩280	1					
50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	610	610						70300560	į.	ARKING TAPE, TYP		FOOT	24	1280				<u> </u>	
67000400	ENGINEERS FIELD OFFICE, TYPE A	CAL MO	3	3						* 78200200		IAL PRISMATIC E		1	20	20				1	
67100100	MOBILIZATION	L SUM	1	1						78300100	PAVEMENT	MARKING REMOV	AL	SQ FT	7/5	7/5				1	
70100405	TRAFFIC CONTROL AND PROTECTION, STANDARD 701321	EACH	1	1							1.										
70400100	TEMPORARY CONCRETE BARRIER	FOOT	362. 5	362. 5			1														
* 78008210	POLYUREA PAVEMENT MARKING TYPE I - LINE 4"	FOOT	1169	1169																	
80400100	ELECTRIC SERVICE INSTALLATION	EACH	1	1												,					
80400200	ELECTRIC UTILITY SERVICE CONNECTION	L SUM	1	1		. to					· va.				·			~			
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¥81100200	TO STRUCTURE, 3/4" DIA., GALVANIZED STEEL	FOOT	200	200		-															
¥ 81700120	ELECTRIC CABLE IN CONDUIT, 600V (EPR-TYP RHW) 1/C1/6	FOOT	250	250																	
* 81800320	AERIAL CABLE, 3-1/C M4 WITH MESSENGER WIRE	FOOT	1450	1450																	
* 82103400	LUMINAIRE, HORIZONTAL MOUNT, PHOTOCELL CONTROL, 400 WATT	EACH	6	6																	
¥ 83057355	LIGHT POLE, WOOD. 60 FOOT. CLASS 4, WITH 15FT MAST ARM	EACH	6	6					-												
X0320047	REMOVAL OF EXISTING PRECAST PRESTRESSED CONCRETE DECK BEAMS	SO FT	196	196																	
*x0321781	MECHANICAL SPLICE	EACH	129	129																1	
X0322467	TEMPORARY INFORMATION SIGNING FOR LANE CLOSURE	SO FT	- 48	48																	
X0323574	MAINTENANCE OF LIGHTING SYSTEM	CAL MO	6	6	:																
x5030275	CONCRETE WEARING SURFACE REMOVAL	SQ YD	7. 3	7. 3		. ,					:								-		
x8900005	TEMPORARY BRIDGE TRAFFIC SIGNAL INSTALLATION	EACH	1	1				,													-
*xx006937	GROUND ROD, 5/8" DIA.X 10 FT.	EACH	3	3														a a			
Z0030250	IMPACT ATTENUATORS, TEMPORARY (NON - REDIRECTIVE), TEST LEVEL 3	EACH	2	2																	
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* SPECIALTY ITEMS

REVISIONS
NAME DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
SUMMARY OF QUANTITIES



CONCRETE WEARING SURFACE PROFILE

| ПОСТЕ НО. | ВЕСТІОН | СОЛИТУ | 1014 | 1948Т | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10

Contract Number: 60D92

GENERAL NOTES

The contractor is advised that the existing PPC Deck Beams are in a deteriorated condition with reduced load carrying capacity. It is the contractors responsibility to account for the condition of the beams when developing construction procedures.

If the contractor's procedure for existing beam removal or placement of new beams involves placement of cranes or other heavy equipment on the bridge, a detailed procedure shall be submitted to the Engineer for approval. The procedure shall include calculations, prepared and sealed by an Illinois Licensed Structural Engineer, verifying that the equipment and procedure used will not overstress the new or existing beams. To distribute load to multiple beams and protect the existing surface, in all cases a double layer mat of heavy timbers shall be used at all times under crane tracks or wheels and any outriggers in the down position. If necessary, shims shall be used under the crane mat to ensure uniform contact with the underlying beams. If heavy equipment will be placed on new PPC deck beams, the following shall be done prior to placement of the timber mats: placement and tightening of transverse tie assemblies, grouting and curing the dowel rods 24 hours minimum and grouting and curing the shear keys.

Any damage done to the bridge during beam removal shall be repaired by the Contractor. Cost to be included in the cost of Removal of Existing PPC Deck Beams.

The top surface of the beams shall be finished according to the IDOT Manual for Fabrication of Precast Prestressed Concrete Products.

Existing reinforcement bars extending into the removal area shall be cleaned, straightened and incorporated into the new construction. Any reinforcement bars that are damaged during concrete removal shall be replaced with an approved bar splicer or anchorage system. Cost included with Concrete Removal.

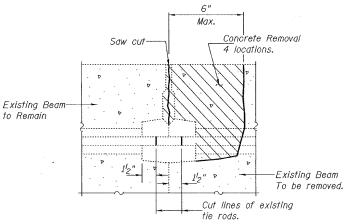
Plan dimensions and details relative to existing plans are subject to routine variations. The Contractor shall field verify existing dimensions and details affecting new construction and make necessary approved adjustments prior to construction or ordering of materials. Such variations shall not be cause 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 shall conform to the requirements of ASTM A 706 Gr 60 (IL Modified). See Special Provisions.

Reinforcement bar's designated (E) shall be epoxy coated.

Temporary concrete barrier shall only be anchored into the overlay and not into the PPC Deck Beams.

The deck surface shall have its final finish tined according to Article 420.09(e)(1) of the Standard Specifications. Cost included with Concrete Wearing Surface.



<u>BEAM REMOVAL DETAIL</u> AT TRANSVERSE TIES

TOTAL BILL OF MATERIAL

ITEM	UNIT	QUANTITY
Removal of Existing PPC Deck Beams	Sq. Ft.	196
PPC Deck Beams (17" Depth)	Sq. Ft.	192
Concrete Wearing Surface Removal	Sq. Yd.	7.3
Reinforcement Bars, Epoxy Coated	Pound	610
Concrete Wearing Surface	Sq. Yd.	29.1
Mechanical Splice	Each	129
Protective Coat	Sq. Yd.	29.1

PLAN AND ELEVATION
IL 23 OVER COON CREEK
MCHENRY COUNTY
SN 056-0012

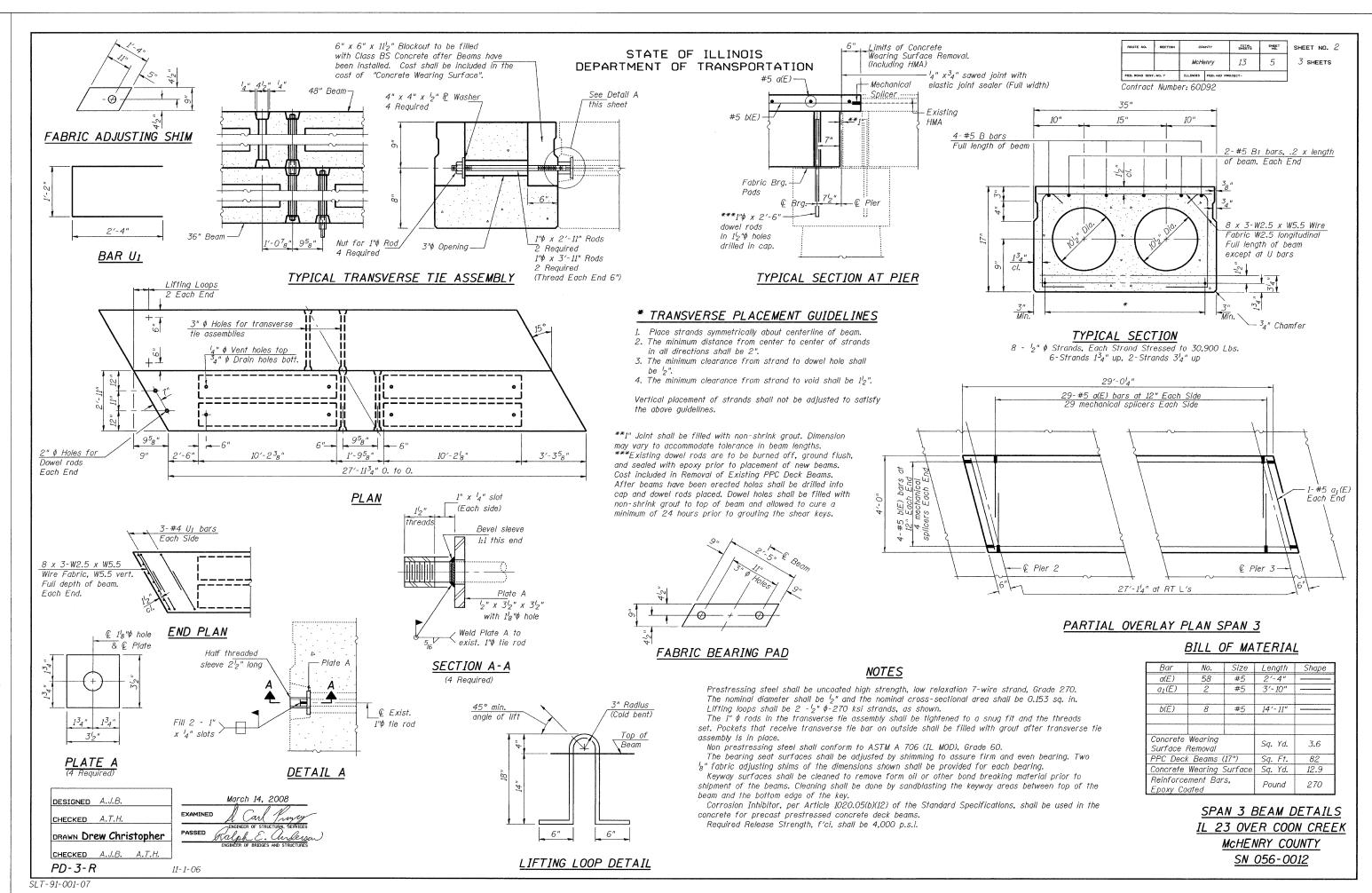
Expires: November 30, 2008

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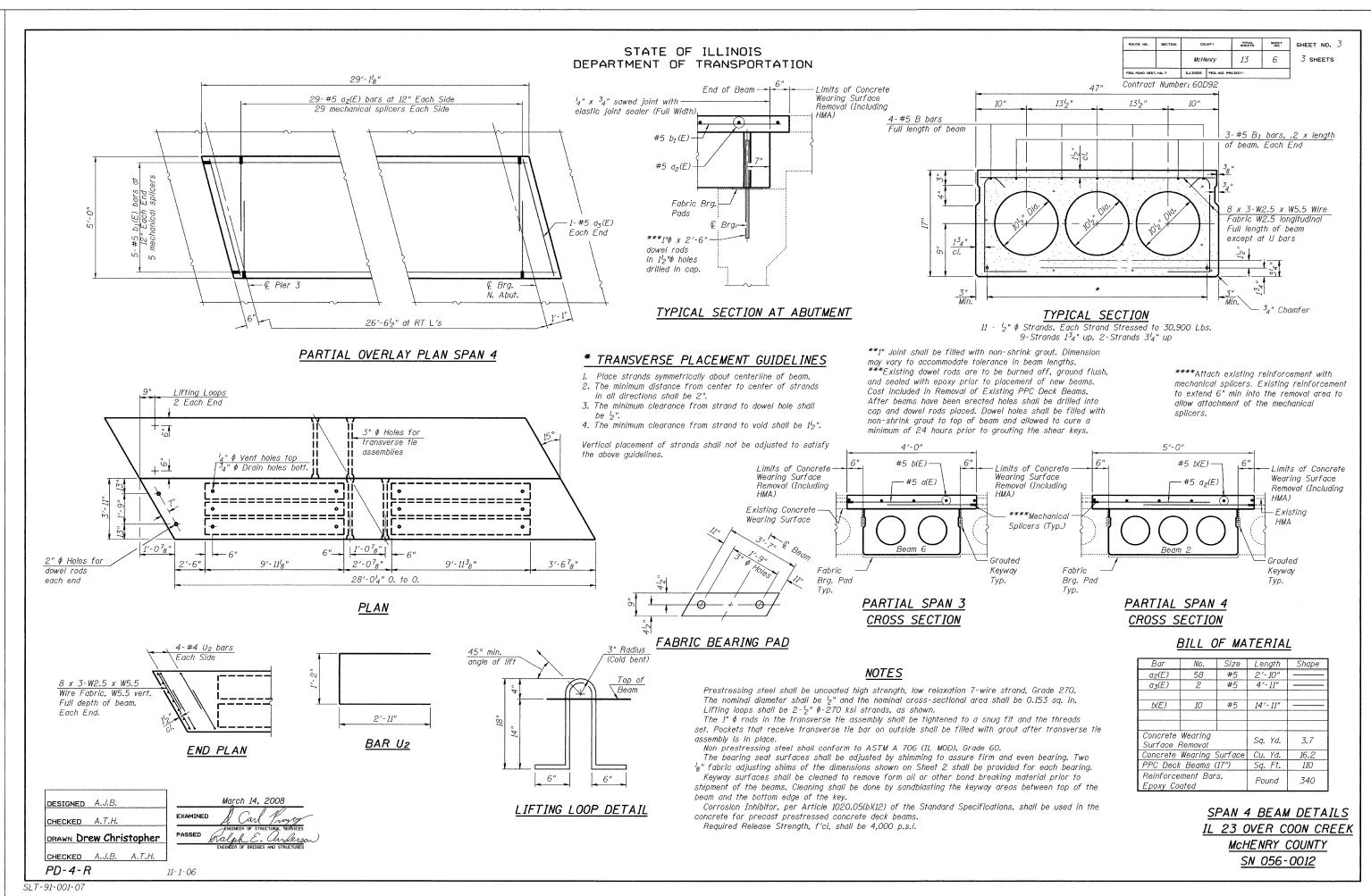
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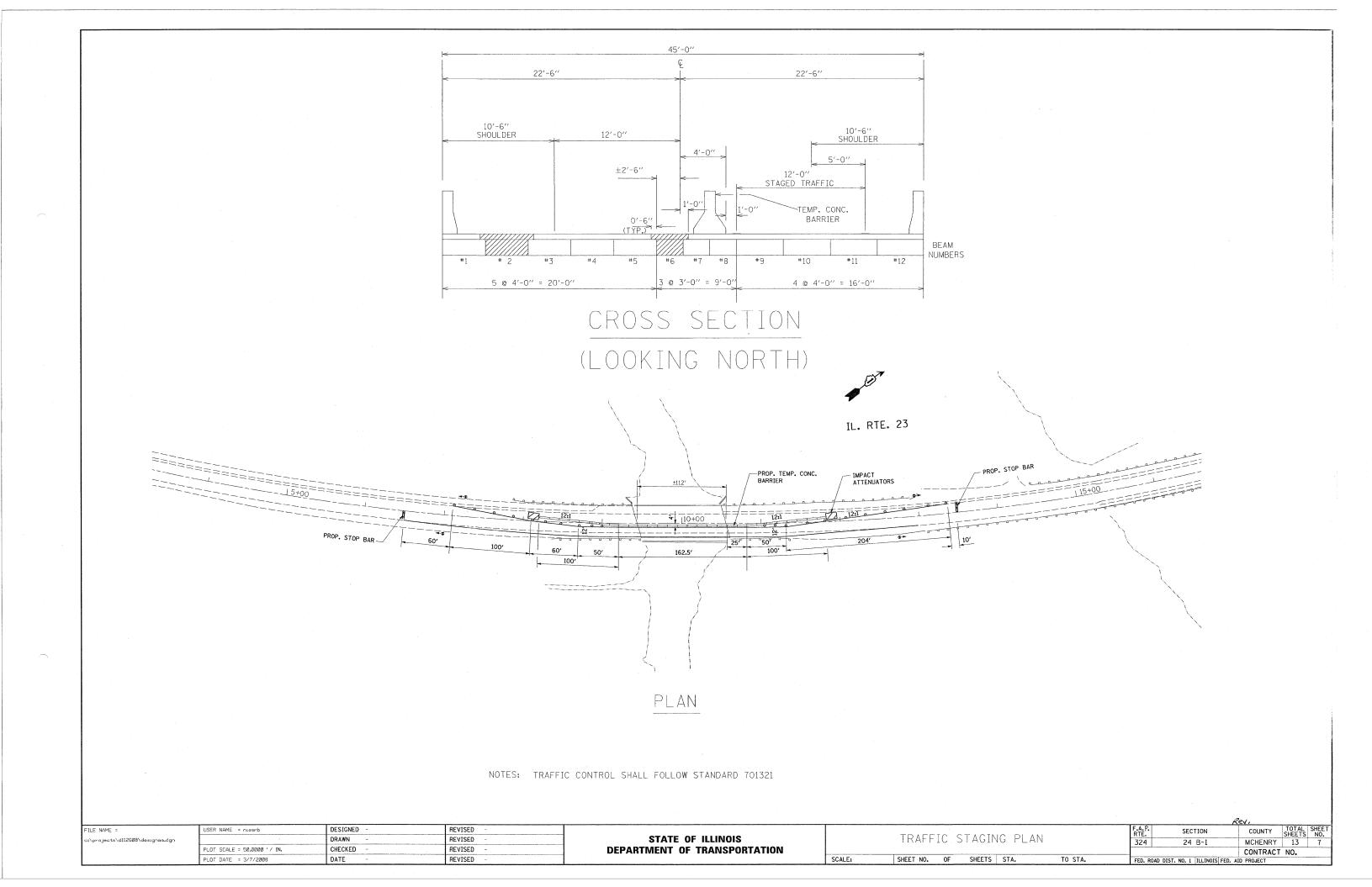
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1 PHASE, 3 WIRE 120 V / 240 AERIAL

JSER NAME = niesrb

PLOT DATE = 3/7/2008

PLOT SCALE = 50.0000 '/ IN.

SERVICE CABLE

EXISTING COM ED SERVICE

FILE NAME =

TRANSFORMER

- 1 The materials and installation methods shall comply with the latest IDOT Standards, National Electrical code, Standards and ordinances of Federal, State and Local governing bodies having jurisdiction.
- 2 All electrical equipment, components and devices shall be U/L listed.
- 3 The grounding and bonding of all metal parts of the light poles shall conform to NEC Article 250. The equipment ground should be continuous and connected up to the electrical system ground. This work should be part of the light pole pay
- 4 The light pole setback from the edge of travel pavement shall be 30 feet unless the light pole is behind guardrall or otherwise stated on the plans. The light poles when installed behind the guardrall should have at least twenty feet setback from the back of the traveled lane and or as directed by the Engineer.
- 5 The contractor shall splice aerial messenger cable at light pole using heat shrinkable caps with factory applied waterproof sealant. The installation and required materials should be part of light pole pay item.
- 6 The quantity as shown in summary of quantities for the temporary lighting is approximate. The contractor shall be responsible for field verifying all quantities prior to ordering any materials or equipment.
- 7 The temporary light poles should have identification numbers as shown on the
- 8 The contractor shall be responsible for any damage done to existing infrastructure or equipment/devices by the contractor's employees or his subcontractors. The contractor shall not install or repair any damaged equipment or devices without Engineer 5/32's approval. The Engineer may permit contractor either to repair and reinstall existing equipment/devices or instruct contractor to replace it with new ones as directed at no cost to State.
- 9 The contractor shall be responsible for contacting and coordinating with J.U.L.I.E. for locating existing underground utilities. The contractor shall locate, flag, and protect all underground utilities prior to commencing construction activities. In case of any damage to existing utilities, the contractor shall repair existing utilities immediately at no cost to State.
- 10 The contractor shall coordinate construction and staging activities with other contractors and utility companies, and participate in coordination meetings as required. The contractor shall not receive any financial compensation for these
- $\,$ 11 $\,$ The contractor shall submit staging schedule identifying starting and completion dates prior to the commencement of work for procurement, installation and or removal of existing material/equipment.
- 12 The temporary lighting should use aerial cables as shown on the plans. However, the under ground new electrical installation if any should be at minimum 30 inches below grade and shall have electrical warning tape conforming to the

STA. 5+00

DESIGNED

DRAWN

DATE

CHECKED

DG

2-25-08

PROP. STOP BAR

REVISED

REVISED

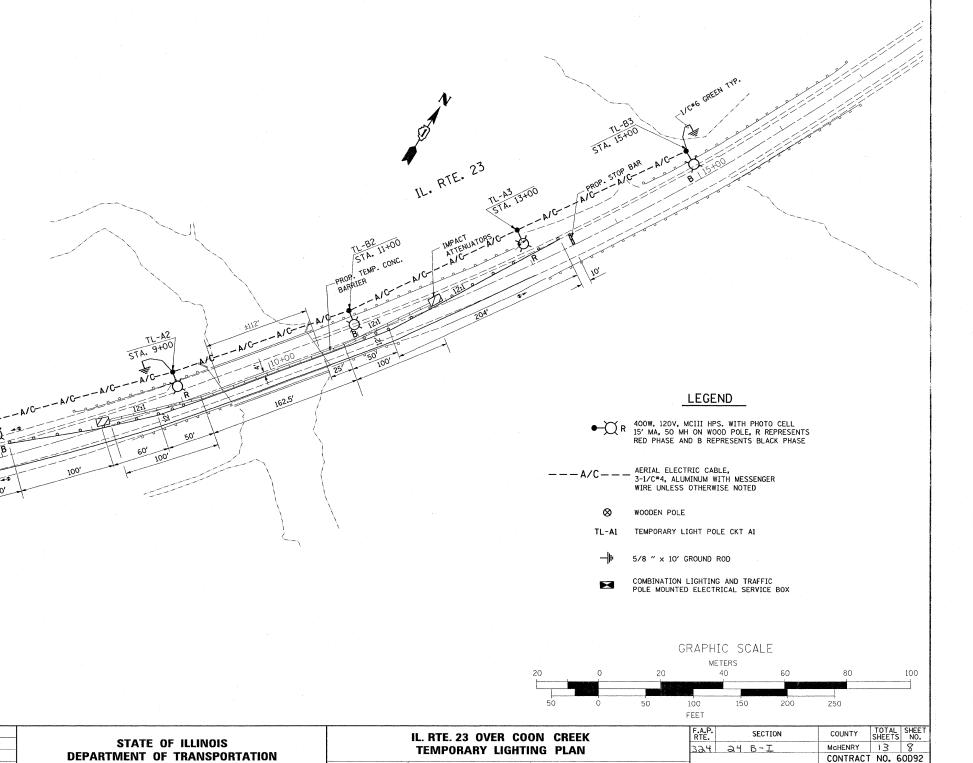
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- The contractor shall notify utility company as soon as possible concerning pending electrical service installation and connection to ensure availability of electrical power supply in a timely manner.
- The contractor may modify electrical IDOT Standard details as necessary to suite specific site conditions; however, the contractor should obtain Engineer's approval prior to the installation.
- The contractor shall restore all excavated or disturbed areas to its original condition and or as directed by the Engineer.
- The removal of temporary lighting shall include and not be ilmited to: All wooden poles, luminaires with mast arms, messenger wires / cables, Com Ed service cables, conduits, service box and hauling away of these items from the project site.

Summary of Quantities, Electrical pay items

Pay Code	Item Description	Unit	Quantity
80400100	Electric Service Installation	Each	1
80400200	Electric Utility Service Connection	Lump Sum	1
82103400	Luminaire 400W HPS Horizontal Mount, with Photocell Control	Each	6
83057355	Light Pole, Wood, 60 Foot, Class 4 With 15FT Mast Arm	Each	6
81800320	Aerial Cable 3-1/C * 4 Aluminum with Messenger Wire	Foot	1450
XX006937	Ground Rod 5/8 DIA x 10 Foot	Each	3
81100200	3/4 Galvanized Steel Conduit Attached To Structure	Foot	200
81700120	Electric cable in Conduit 600V, (EPR-TYPE RHW) 1/C * 6 Green	Foot	250
	Electric Service Disconnect, Lighting and Traffic Signal	Each	1
X0323574	Maintenance of Lighting System	Ca Mo	6
	Temporary Lighting System Removal, no Salvage	Lump Sum	1
80801400	Wood Pole 25' Class 4	Each	1

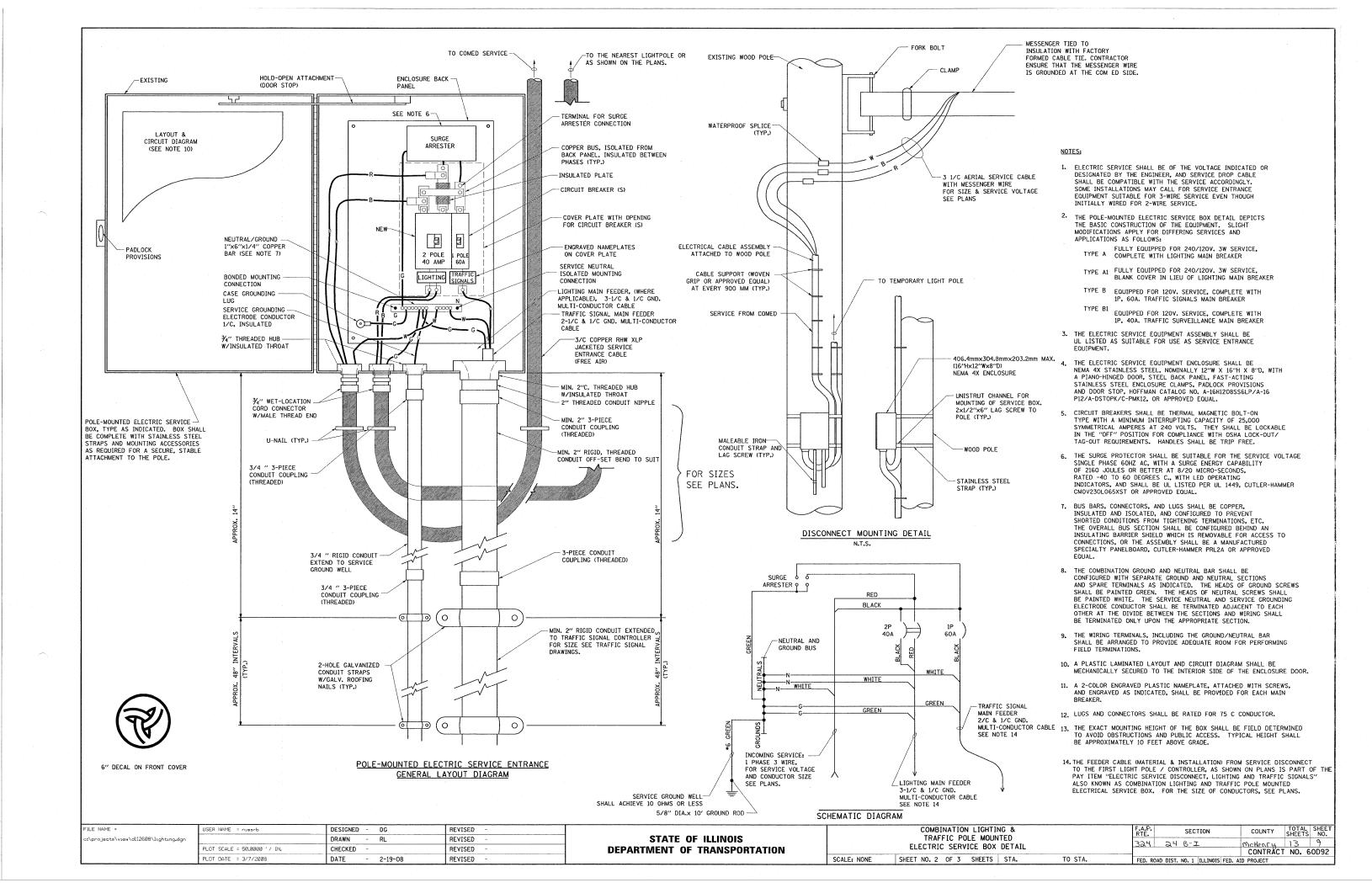


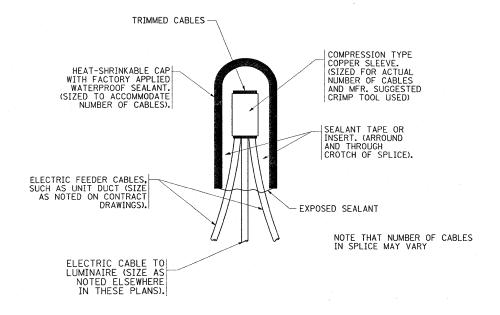
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TO STA.

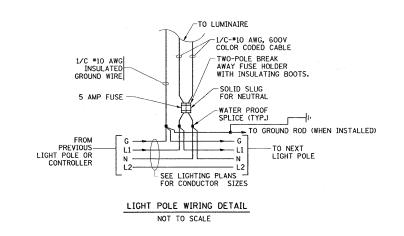
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT

SCALE: 1"=50"





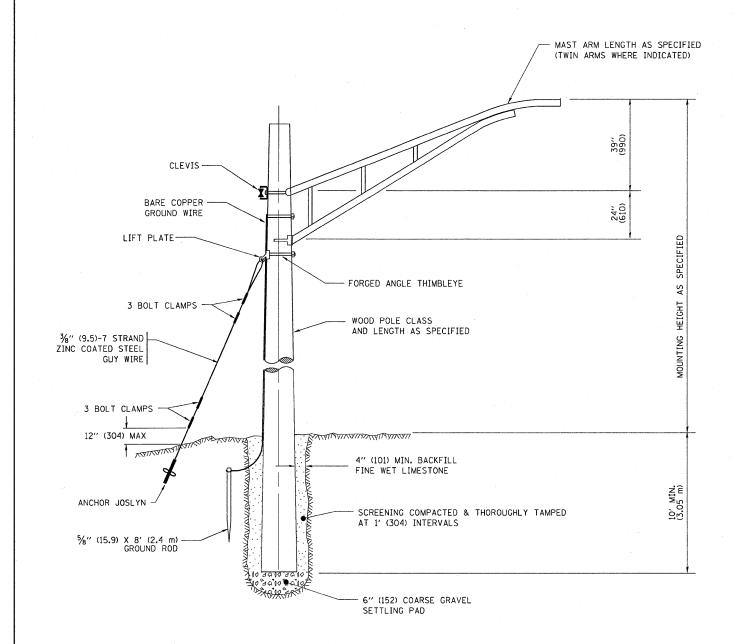
TYPICAL SPLICE DETAIL
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

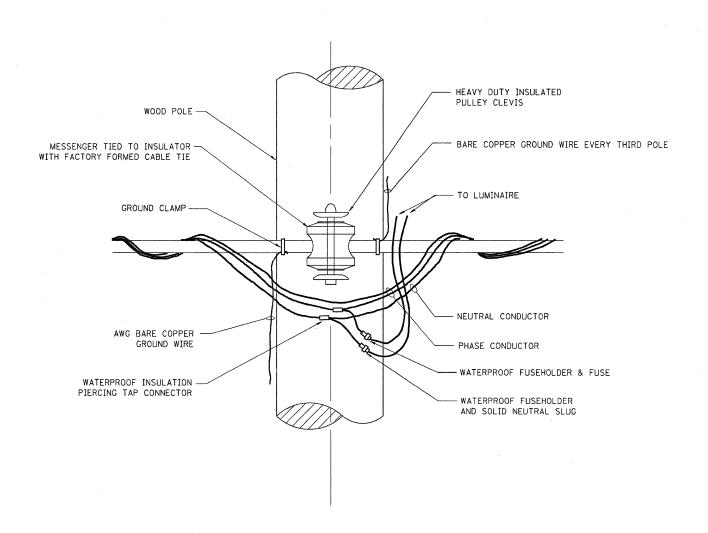
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1	ROAD	WAY LIGHTING INST	324	24 B-I	mcHenry	13	10		
1					CONTRACT	NO. 6	SOD92		
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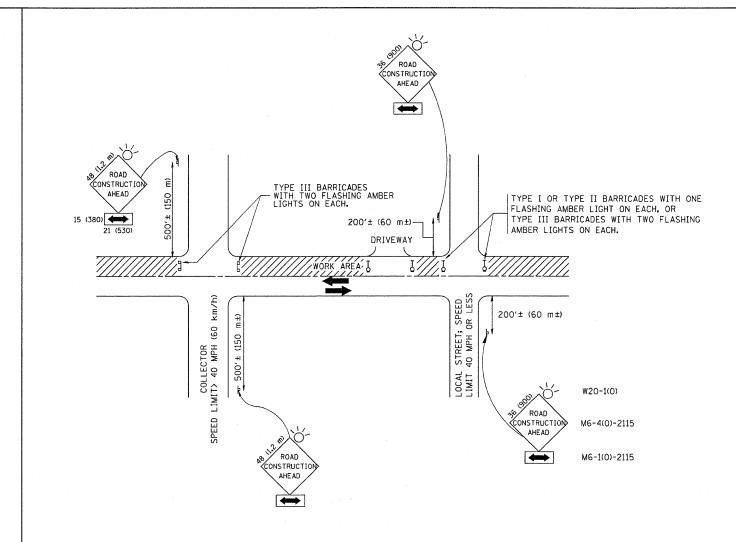
NOTES:

1. ALL DIMENSIONS IN INCHES (MILLIMETERS) UNLESS OTHERWISE INDICATED



TEMPORARY LIGHT POLE ATTACHMENT DETAIL

FILE NAME =	USER NAME = gaglianobt	DESIGNED -	REVISED - 08-08-03		TEMPORARY LIGHT POLE DETAILS		F.A.P.	SECTION	COUNTY	TOTAL
W:\diststd\22x34\be800.dgn	-	DRAWN -	REVISED -	STATE OF ILLINOIS	TEINI OTATI EIGHT TOLL DETAILS		324	24 R-I	McHenry	13
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	PLOT DATE = 1/4/2008	DATE -	REVISED -		SCALE: NONE SHEET NO. 1 OF 1 SHEETS STA.	TO STA.	FED. ROA	AD 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:
- 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 GREATER THAN 40 MPH (60 km/h)
 AS SHOWN ON THE DRAWING AND AS DIRECTED BY THE ENGINEER:
- d) ONE ROAD CONSTRUCTION AHEAD SIGN 48 x 48 (1.2 m x 1.2 m) WITH A FLASHER MOUNTED ON IT APPROXIMATELY 500' (150 m) IN ADVANCE OF THE MAIN ROLLIF.
- 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.

L			
FILE NAME =	USER NAME = gaglianobt	DESIGNED - LHA	REVISED - J. OBERLE 10-18-95
Wi\diststd\22x34\tc10.dgn		DRAWN -	REVISED - A. HOUSEH 03-06-96
	PLOT SCALE = 50.000 '/ IN.	CHECKED -	REVISED - A. HOUSEH 10-15-96
	PLOT DATE = 1/4/2008	DATE - 06-89	REVISED -T. RAMMACHER 01-06-00

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

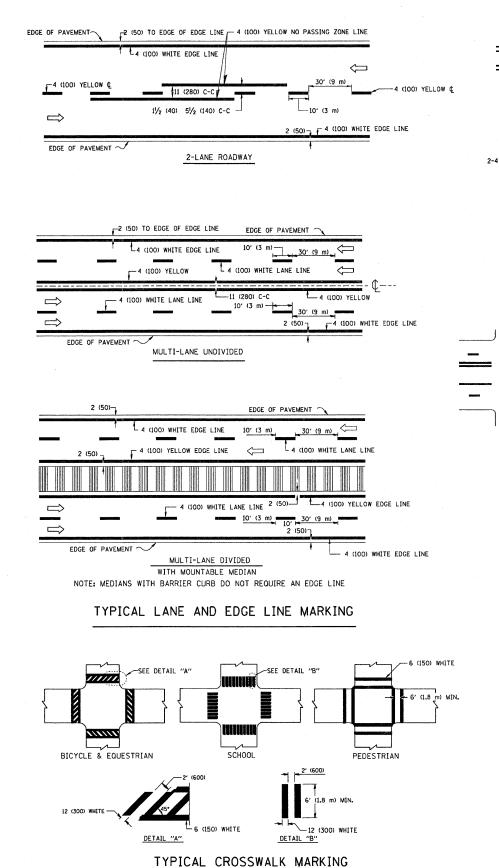
TRAFFIC CONTROL AND PROTECTION FOR	F.A.P. RTE.	SEC.	TIC
SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS	324	24 B	~ _
		TC-10	0
SHEFT NO. 1 OF 1 SHEFTS STA. TO STA.	FED B	DAD DIST NO 1	Ti

RTE. SECTION COUNTY SHEETS NO.

324 24 B-I MCHERCA 13 12

TC-10 CONTRACT NO.

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



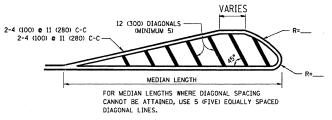
2-4 (100) YELLOW @ 11 (280) C-C

NO DIAGONALS

4' (1.2 m) OUTSIDE TO OUTSIDE OF LINES

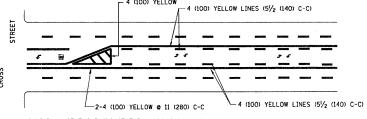
2-4 (100) YELLOW @ 11 (280) C-C

4' (1.2 m) WIDE MEDIANS ONLY

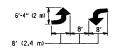


DIAGONAL LINE SPACING: 50' (15 m) C-C (LESS THAN 30MPH (50 km/h))
75' (25 m) C-C 30MPH (50 km/h) TO 45MPH (70 km/h))
150' (45 m) C-C (MORE THAN 45MPH (70 km/h))

MEDIANS OVER 4' (1.2 m) WIDE

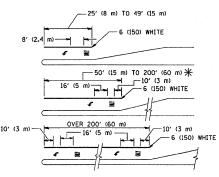


A MINIMUM OF TWO PAIRS OF TURN ARROWS SHALL BE USED, WHITE IN COLOR, ADDITIONAL PAIRS SHALL BE PLACED AT 200' (60 m) TO 300' (90 m) INTERVALS.



MEDIAN WITH TWO-WAY LEFT TURN LANE

TYPICAL PAINTED MEDIAN MARKING

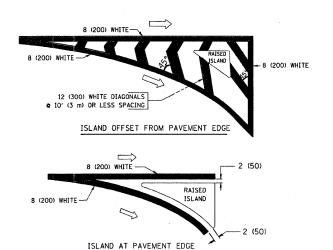


FULL SIZE LETTERS 8' (2.4 m) AND ARROWS SHALL BE USED. \P AREA = 15.6 SO. FT. (1.5 m²) \P AREA = 20.8 SO. FT. (1.9 m²)

* 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

			1	T
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	55/2 (140) C-C FROM SKIP-DASH CENTERLINE 11 (280) 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 WARKING 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: 51/2 (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 @ 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' (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°	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: ONE WAY TRAFFIC	SEE TIFICAL 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))
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 ²) EACH "X"=54.0 SQ. FT. (5.0 m ²)
SHOULDER DIAGONALS	12 (300) @ 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.

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 1	TRANSPORTATION

DISTRICT ONE						F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
TYPICAL PAVEMENT MARKINGS						324	24 B-I	mcHenry 13 13		13
SCALE: NONE SHEET NO. 1 OF 1 SHEETS STA. TO STA.						TC-13 CONTRACT NO. FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				