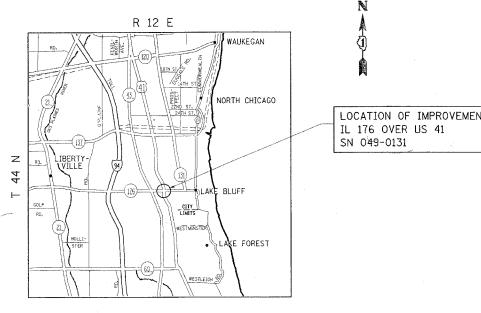
STATE OF ILLINOIS

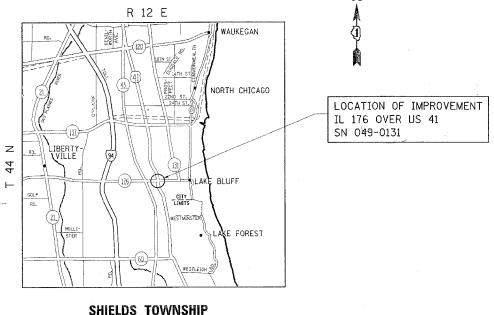
DEPARTMENT OF TRANSPORTATION **DIVISION OF HIGHWAYS**

PROPOSED HIGHWAY PLANS

OVER US 41 (SKOKIE HWY); (SN 049-0131) SECTION: 125 SB-1-I-1 PPC DECK BEAM REPLACEMENT LAKE COUNTY C-91-392-06



FAU ROUTE 1238: IL 176 (ROCKLAND RD)



D-91-392-06

RTE. SECTION 1238 125_SB-1-I-1

COUNTY



STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION DIVISION OF HIGHWAYS SUBMITTED June / 20 06 Dr'ane M. O' Keefe /Conf DEPUTY DIRECTOR OF HIGHWAYS, REGION ENGINEER NULLE HEND TO ENGINEER OF DESIGN AND ENVIRONMENT

> PRINTED BY THE AUTHORITY OF THE STATE OF ILLINOIS

TRAFFIC DATA

FOR INDEX OF SHEETS, SEE SHEET NO. 2

VILLAGE OF LAKE BLUFF

THE IMPROVEMENT IS LOCATED IN THE

IL 176: 2005 ADT = 15,900 SPEED LIMIT= 30 MPH 2005 ADT = 46,900 SPEED LIMIT = 45 MPH

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

CONTRACT NO. 60B67

INDEX OF SHEETS

COVER PAGE

INDEX OF SHEETS, GENERAL NOTES, STATE STANDARDS

SUMMARY OF QUANTITIES

4,-6. STAGING PLANS

7.-10. BRIDGE PLANS (LOC. 1: SN 049-0131)

US 41 DETOUR PLAN

TYPICAL APPLICATION RAISED REFLECTIVE PAVEMENT MARKERS (SNOW-PLOW RESISTANT)

TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS AND DRIVEWAYS

LIST OF STATE STANDARDS

701301-02 LANE CLOSURE, 2L, 2W, SHORT TIME OPERATIONS 701601**-04** URBAN LANE CLOSURE, MULTILANE, 2W WITH NONTRAVERSABLE MEDIAN

701801 **- 03** LANE CLOSURE, MULTILANE, 1W OR 2W CORSSWALK OR SIDEWALK CLOSURE

TRAFFIC CONTROL DEVICES 702001 **- 06** 704001 - 02 TEMPORARY CONCRETE BARRIER

BITUMINOUS MIXTURE REQUIREMENTS

MIXTURE USE	AC/PG	AIR VOIDS	RAP % (MAX.)
BIT. CONC. SURFACE COURSE, SUPERPAVE MIX "D", N50	PG 64-22	4.0% @ 50 GYR.	15

NOTE: THE UNIT WEIGHT USED FOR ALL BITUMINOUS SURFACE MIXTURES IS 112 LBS./SQ.YD./IN.

GENERAL NOTES

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

THE CONTRACTOR 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 THE CONTRACTOR'S EXPENSE.

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 CONTRACTORS RESPONIBILITY TO VERIFY ALL DIMENSIONS AND CONDITIONS EXISTING IN THE FIELD PRIOR TO CONSTRUCTION AND ORDERING OF MATERIALS.

THE CONTRATOR SHALL CONTACT THE DISTRICT ONE TRAFFIC CONTROL SUPERVISOR AT (847) 705-4470 A MINIMUM OF 72 HOURS IN ADVANCE OF BEGINNING WORK.

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

THESE PLANS HAVE BEEN PREPARED FROM NOTES RECIEVED FROM BRIDGE INSPECTORS

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

DO NOT SCALE PLANS FOR CONSTRUCTION DIMENSIONS.

DOUBLE LANE MARKERS ARE TO BE USED AS SHOWN ON THE DISTRICT ONE DETAIL FOR TYPICAL APPLICATION OF RAISED REFLECTIVE PAVEMENT MARKERS (SNOW-PLOW RESISTANT) SHOWN IN THE PLANS.

THE THICKNESS OF BITUMINOUS MIXTURE SHOWN ON THE PLANS IS THE NOMINAL THICKNESS. DEVIATIONS FROM THE NOMINAL THICKNESS WILL BE PERMITTED WHEN SUCH DEVIATIONS OCCUR DUE TO IRREGULARITIES IN THE EXISTING SURFACE OR BASE ON WHICH THE BITUMINOUS MIXTURE IS PLACED.

CONCRETE SUPERSTRUCTURES SHALL HAVE A SEVEN DAY MINIMUM CURE.

THE CONTRATOR SHALL CONTACT THE DISTRICT ONE TRAFFIC CONTROL SUPERVISOR AT (847) 705-4470 A MINIMUM OF 72 HOURS IN ADVANCE OF BEGINNING WORK.

THE CONTRATOR SHALL COORDINATE CONSTRUCTION ACTIVITIES WITH UTILITY COMPANIES.

WHEN ARTIFICIAL LIGHTING IS UTILIZED IN NIGHT OPERATIONS, THE CONTRACTOR SHALL EXERCISE THE UTMOST PRECAUTIONS IN PREVENTING ADVERSE VISIBILITY TO THE MOTORING PUBLIC AND ADJOINING RESIDENTIAL AREAS.

THE CONTRATOR SHALL BE RESPONSIBLE, DURING THE DETOUR OF US 41, FOR THE NOTIFICATION OF ALL EMERGENCY SERVICES, SCHOOL DISTRICTS, I.D.O.T.'S COMMUNICATIONS CENTER, SPRINGFIELD TRUCK PERMIT SECTION AND OTHER AGENCIES AFFECTED BY THE CLOSURE. THE CONTRACTOR SHALL ALSO BE RESPONSIBLE FOR POSTING SIGNS THAT WILL INDICATE THE DATES THE CLOSURE WILL BE IN PLACE.

REVISIONS	ILLINOIS DEPARTMENT OF TRANSPORTATION						
NAME DATE	ILLINOIS DEPARTMEN	I OF TRANSPORTATION					
	INDEX OF GENERAL AND STATE IL RT. 176	NOTES STANDARDS					
	SCALE: VERT. HORIZ.	DRAWN BY					
	DATE	CHECKED BY					

CONTRACT NO.

13 2

COUNTY

TO STA.

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

SECTION

STA.

1238 125_SB=1=I=1 LAKE

CONTRACT 60B67

RTE.	SECTION		COUNT	Y	TOTAL SHEETS	SHEET NO.	
1238	125_SB_1±I=1		LAKE		13	3	
FED.	ROAD DIST. NO. 1	ILL	INOIS		HWAY PRO	DJECT	

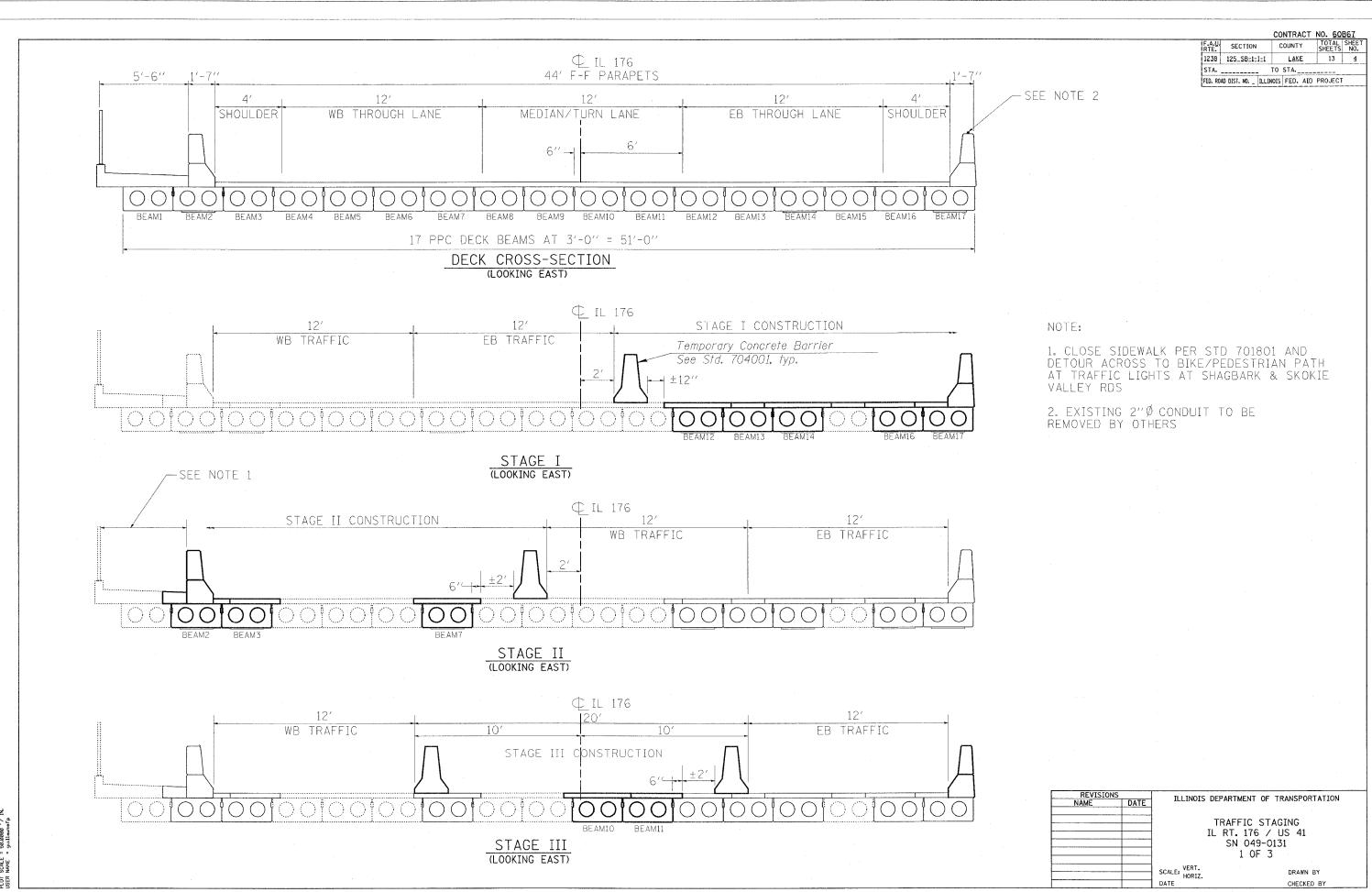
	SUMMARY OF QUANTITIES					CONSTRUCT	TION TYPE CO	ODE		SUMM	ARY OF QUAN	TITIES				T	CONSTRUCTION	ON TYPE CODE	
	SOMMAN OF ADMINITES		TOTAL	URBAN										TOTAL					
ODE NO	ITEM	UNIT		100% STATE					 CODE NO		ITEM		UNIT	QUANTITIES		ļ			
				SFTY-2A												ļ			
1001000 0102400	BITUMINOUS CONCRETE SURFACE REMOVAL CONCRETE REMOVAL	5Q YD CU YD	45 25. 4	45 25. 4															
0300255	CONCRETE SUPERSTRUCTURE	CU YD	25. 4	25. 4															
300300	PROTECTIVE COAT	SQ YD	142	142															
0400305	PRECAST PRESTRESSED CONCRETE DECK BEAMS (17" DEPTH)	SQ FT	1670	1670	THE REPORT OF THE PARTY OF THE			-									About the control of the second		
800205	REINFORCEMENT BARS, EPOXY COATED	POUND	2280	2280															
3100200	WATERPROOFING MEMBRANE SYSTEM	SQ YD	145	145															
3300100	PORTLAND CEMENT MORTAR FAIRING COURSE	FOOT	737	737														-	
7000400	ENGINEER'S FIELD OFFICE, TYPE A	CAL MO	3	3															
100100	MOBILIZATION	L SUM	1	1															
101800	TRAFFIC CONTROL AND PROTECTION (SPECIAL)	L SUM	1	1				The second secon										ARTICLE STATE OF THE STATE OF T	
102630	TRAFFIC CONTROL AND PROTECTION, STANDARD 701601	L SUM	. 1	1				Short shirt					eronn fann fan fan skrivere						
102640	TRAFFIC CONTROL AND PROTECTION, STANDARD 701801	L SUM	1	1															
100100	TEMPORARY CONCRETE BARRIER	FOOT	360	360							÷.								
100200	RELOCATE TEMPORARY CONCRETE BARRIER	FOOT	300	300															
00200	THERMOPLASTIC PAVEMENT MARKING - LINE 4"	FOOT	400	400															
000600	THERMOPLASTIC PAVEMENT MARKING - LINE 12"	FOOT	36	36															
100105	RAISED REFLECTIVE PAVEMENT MARKER (BRIDGE)	EACH	4	4													and the control of th		
320047	REMOVAL OF EXISTING PRECAST PRESTRESSED CONCRETE DECK BEAMS	SQ FT	1695	1695															
322467	TEMPORARY INFORMATION SIGNING FOR LANE CLOSURE	SQ FT	48	48															
066424	BITUMINOUS CONCRETE SURFACE COURSE, SUPERPAVE, MIX "D", N50	TON	22	22															
15000	CHANGEABLE MESSAGE SIGN	CAL MO	2	2			La Company Com												
05369	TRAFFIC CONTROL & PROTECTION FOR TEMPORARY DETOUR	L SUM	1	1															
30240	IMPACT ATTENUATORS, TEMPORARY (NON- REDIRECTIVE), TEST LEVEL 2	EACH	2	2											:				
30340	IMPACT ATTENUATORS, RELOCATE (NON-REDIRECTIVE), TEST LEVEL 2	EACH	4	4															

∆ SPTY-3N * SPECIALTY MEMS REVISIONS ILLINOIS DEPARTMENT OF TRANSPORTATION

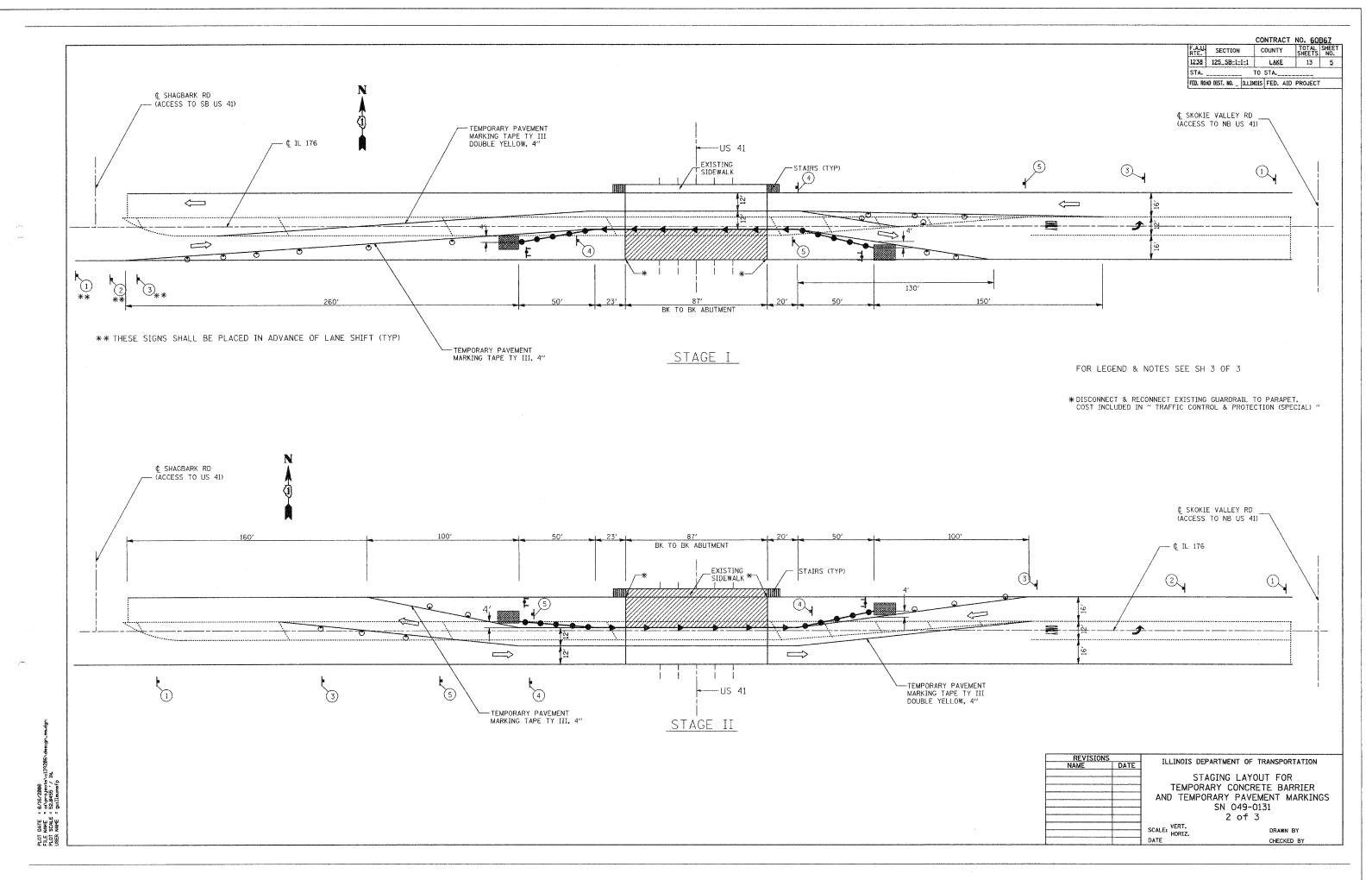
NAME DATE SUMMARY OF QUANTITIES

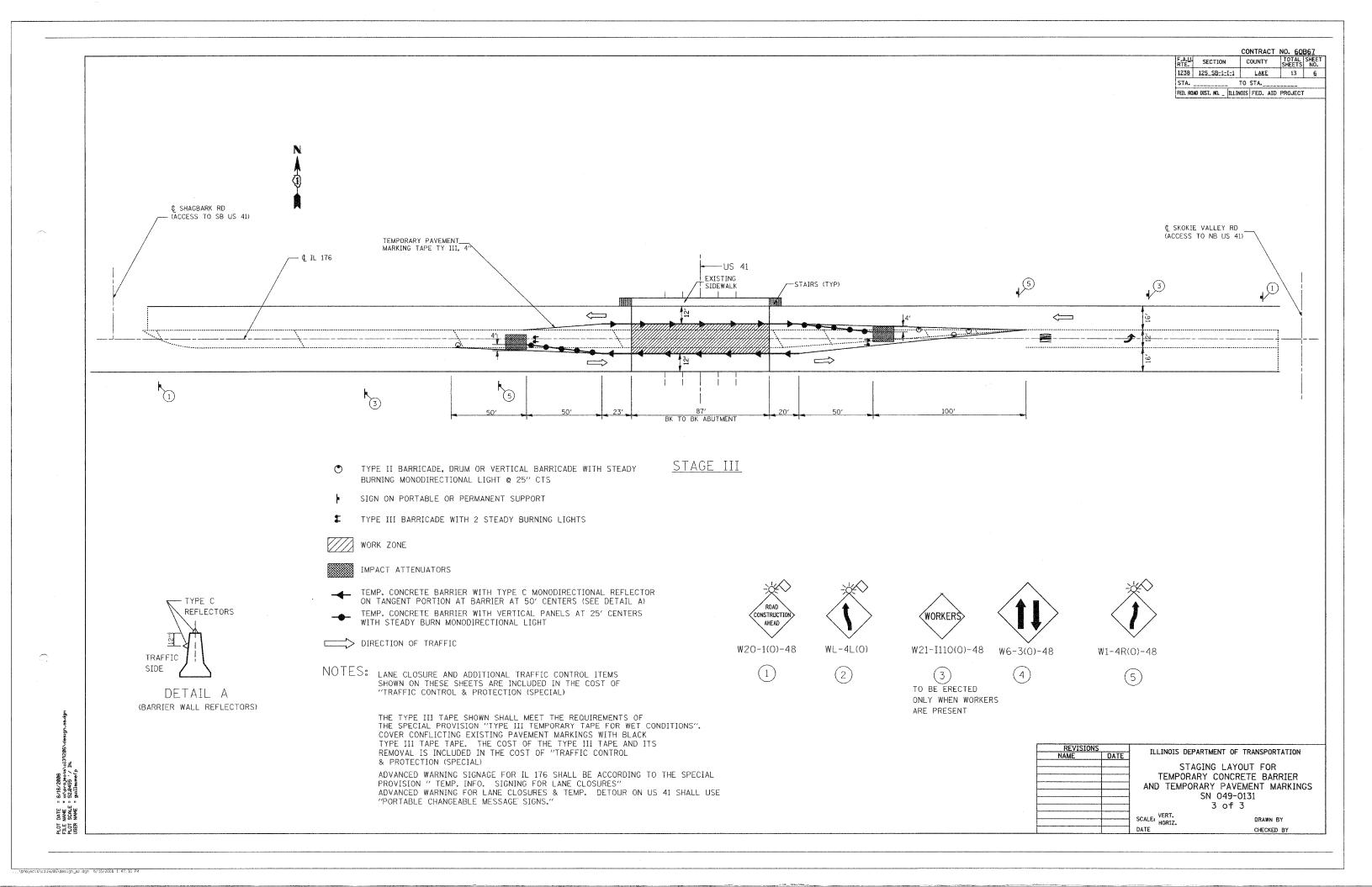
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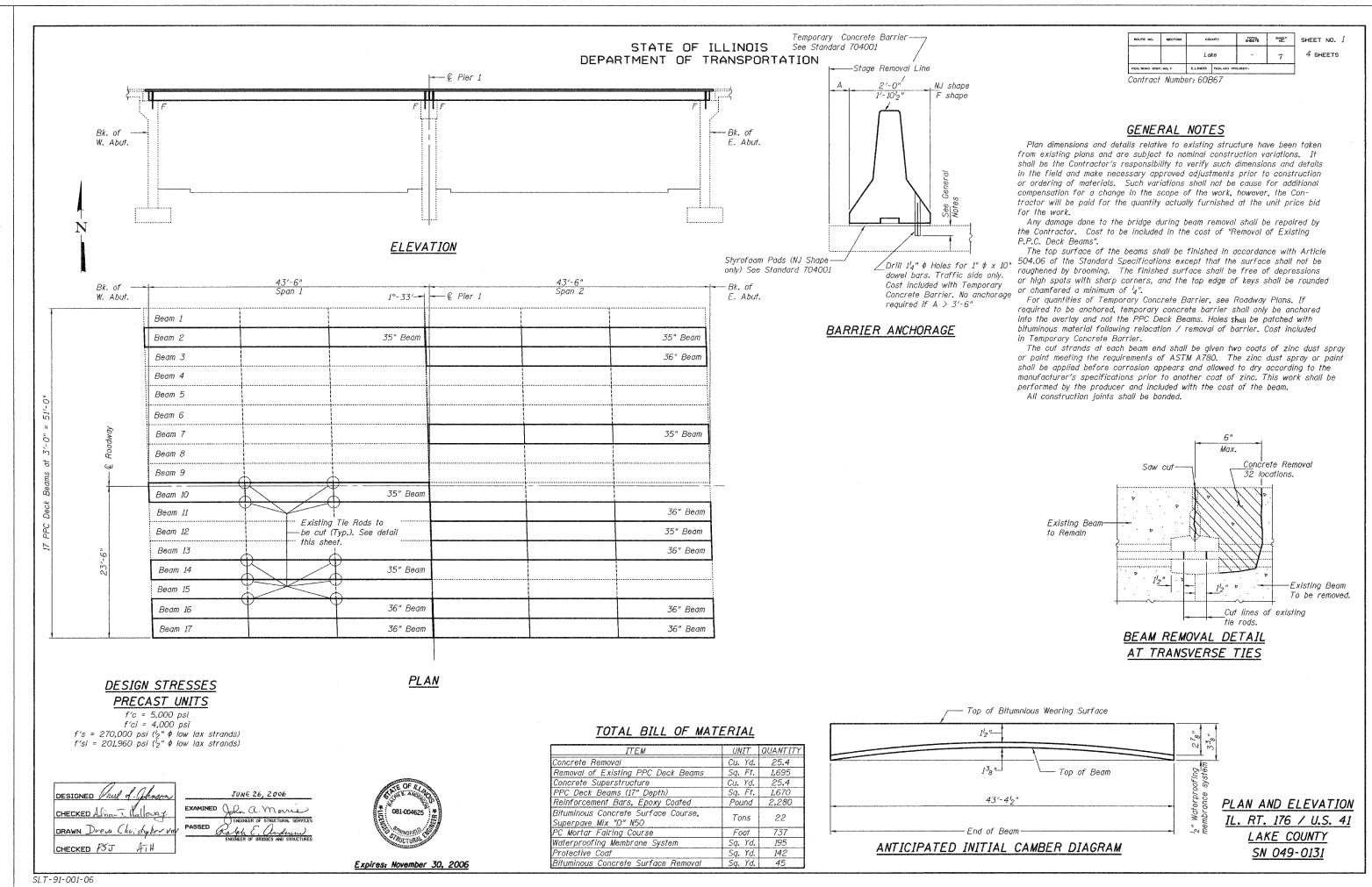
PLOT DATE: 6/2/2006



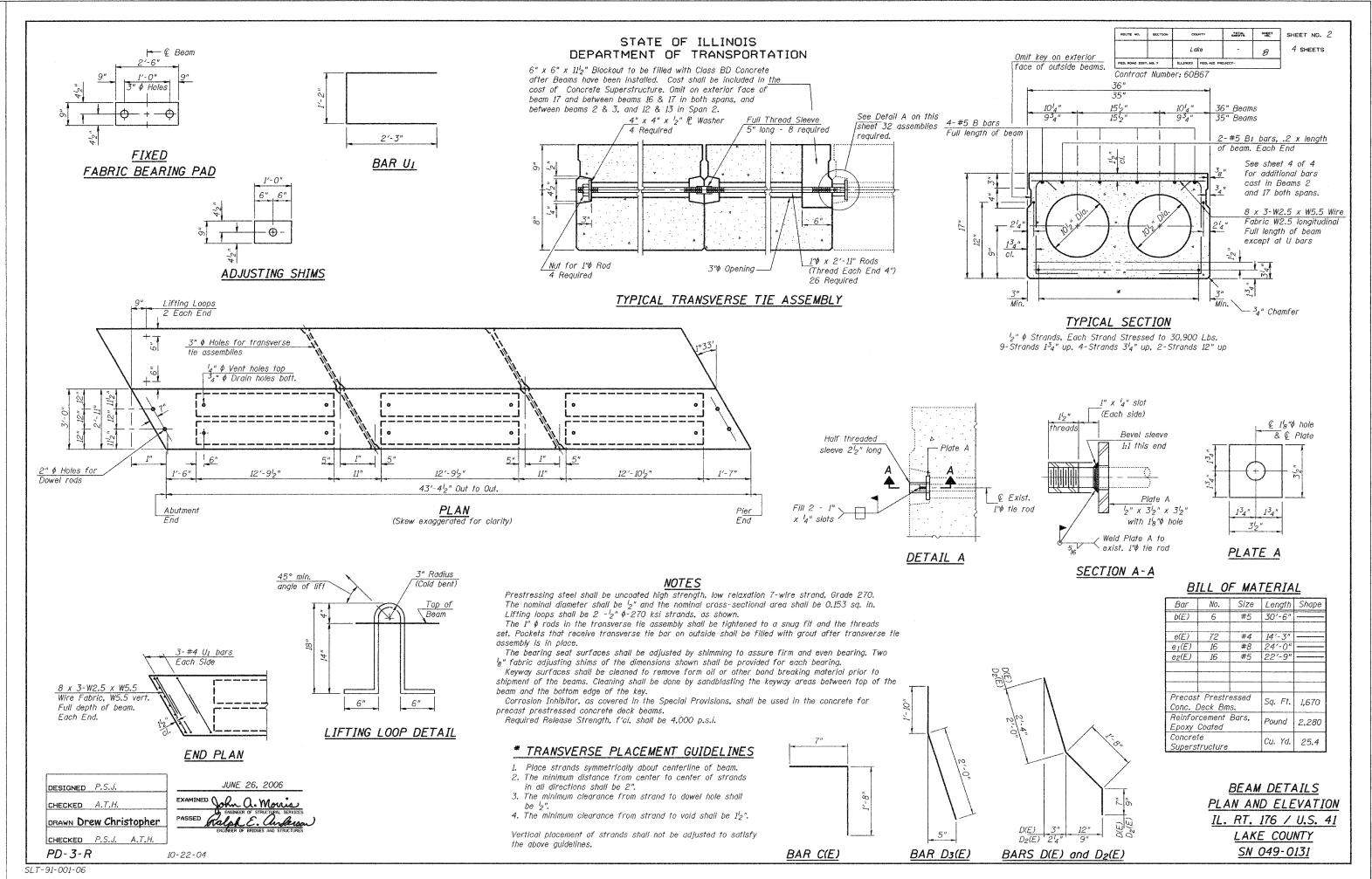
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25 (4 Ct 300C/3C)3 nob 151/20(0/8/82)



SHEET NO. 3 SHEET NO. STATE OF ILLINOIS Lake 4 SHEETS DEPARTMENT OF TRANSPORTATION PEO. ROAD DIST. NO. 7 M.LINGIS PEO. AND PROJECT-Contract Number: 60B67 ***1'-7" 10'-0" 12'-0" 12'-0" 10'-0" ***1'-7" 5′-6" Parapet Sidewalk Parapet 3₁₆ " Per Foot 3₁₆" Per Foot '4" Per Foot 3₁₆ " Per Foot ¼" Per Foot Stage I Construction Stage II Construction Stage III Construction -Existing conduit to be removed by others. - € Roadway 4'-0" 11'-0" -Limits of Bit. Con. Limits of Bit. Con.→ Limits of Bit. Con. Wearing Surface Wearing Surface Wearing Surface ** ** Removal and Removal and Removal and Replacement Replacement Replacement ±1'-7" Fabric Brg.— Pad (Typ.) - Grouted Key 17 PPC Deck Beams at 3'-0" = 51'-0" SPAN 1 DECK CROSS-SECTION ***1′-7" 12'-0" ***1'-7" 10'-0" 12'-0" 10'-0" 5′-6" Parapet Parapet Sidewalk 3₁₆" Per Foot 3₁₆" Per Foot 4" Per Foot 3₁₆" Per Foot 4" Per Foot Stage I Construction Stage II Construction Stage III Construction -Existing conduit to be removed by others. — € Roadway 4'-0" 4'-0" 10'-0" 5'-0" Limits of Bit. Con.-Limits of Bit. Con. Limits of Bit. Con.-Wearing Surface ** Wearing Surface Wearing Surface ** Removal and Removal and Removal and Replacement Replacement Replacement ±1'-7" Fabric Brg.-Grouted Key 17 PPC Deck Beams at 3'-0" = 51'-0" SPAN 2 DECK CROSS-SECTION (Looking East) *Existing waterproofing to remain. Lap new waterproofing membrane system with existing waterproofing. **Cost of removal in these areas is included with Removal of PPC Deck Beams. ***Quantity included in Concrete JUNE 26, 2006 DESIGNED P.S.J. DECK CROSS-SECTIONS EXAMINED John a. Morris CHECKED A.T.H. Removal and Concrete Superstructure. IL. RT. 176 / U.S. 41 Ralph E. anderson DRAWN Drew Christopher LAKE COUNTY CHECKED P.S.J. A.T.H.

SN 049-0131

SLT-91-001-06

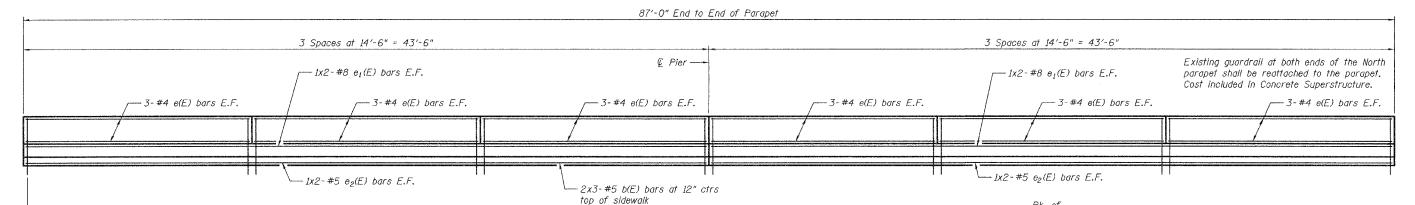
STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

Existing name plate in North Parapet to be removed, cleaned, and re-installed in same location of new parapet. Cost included in Concrete Superstructure.



4 SHEETS

Contract Number: 60B67



88-#4 $D_3(E)$ bars at 12" ctrs outside face North Parapet 88-#4 $D_1(E)$ bars at 12" ctrs outside face South Parapet 96-#5 D(E) bars at 11" ctrs inside face North Parapet 96-#5 D₂(E) bars at 11" ctrs inside face South Parapet

88-#5 C(E) bars at 12" ctrs in sidewalk

Existing reinforcement 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 shall be included with Concrete Removal.

JUNE 26, 2006

EXAMINED John a. Morris

INSIDE PARAPET ELEVATION

*1" Joint shall be filled with

non-shrink grout. Dimension

may vary to accommodate

tolerance in beam lengths.

**Existing dowel rods are to be burned off, ground flush, and sealed with epoxy prior to placement of new beams. Cost included in Removal of Existing PPC Deck Beams. After beams have been erected holes shall be drilled into cap and dowel rods placed. Dowel holes shall be filled with non-shrink grout to top of beam and allowed to cure a minimum of 24 hours prior to grouting the shear keys.

e(E)

 $D_2(E)$

Beam 17

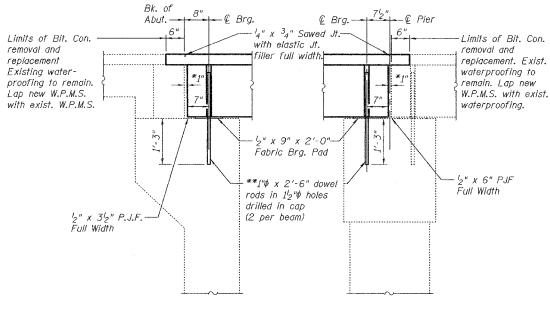
1'-4"

 $D_1(E)$

e1(E)

Field Bend

(Length 4'-5")



TYPICAL SECTION

AT ABUTMENTS

Use T.

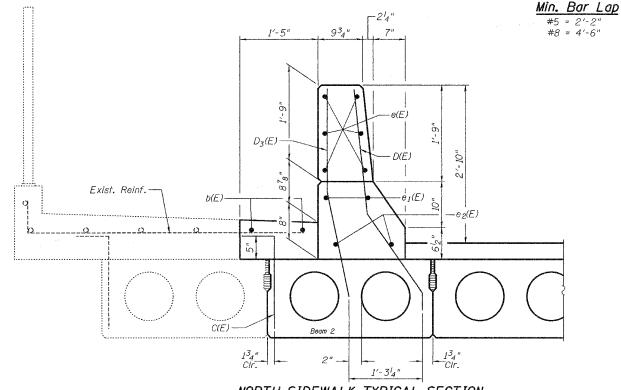
Non-staining gray one component non-sag elastomeric gun grade polyurethane sealant meeting the requirements of ASTM C-920, Type S, Grade NS, Class 25,

> 1/2" Preformed Self-Expanding Cork Joint Filler

PARAPET JOINT DETAILS

according to Article 1051.07 of the Std. Spec. Cost included with Concrete _Superstructure.

5₈" ∮ Backer Rod



NORTH SIDEWALK TYPICAL SECTION

SOUTH PARAPET TYPICAL SECTION

Const. Jts. at Piers

R" Aluminum sheet ASTM (Optional) B 209 allov 3003-H14. Cost included with Const. Jt. Concrete Superstructure (Mandatory)

PARAPET AND JOINT DETAILS IL. RT. 176 / U.S. 41

TYPICAL SECTION

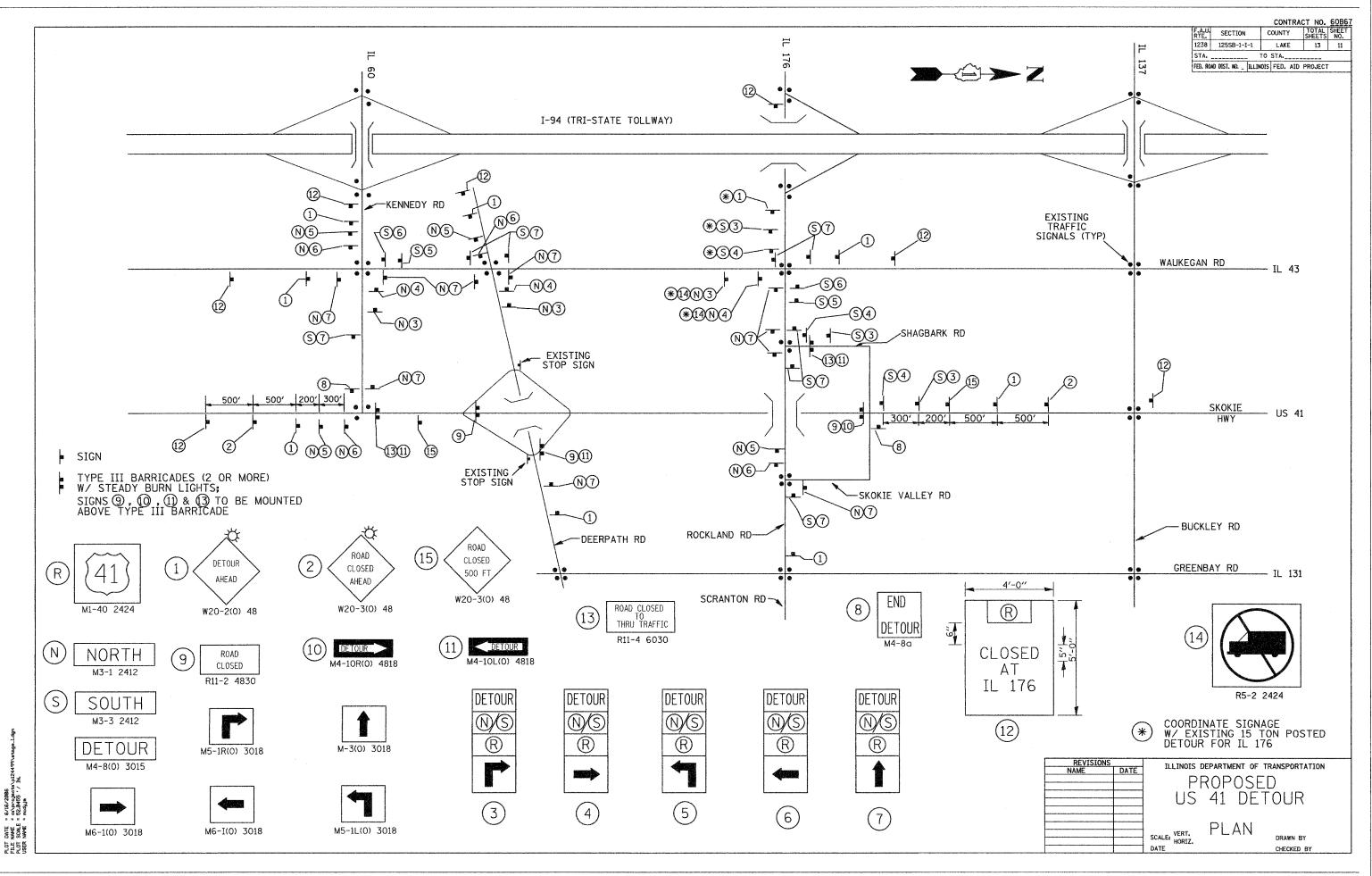
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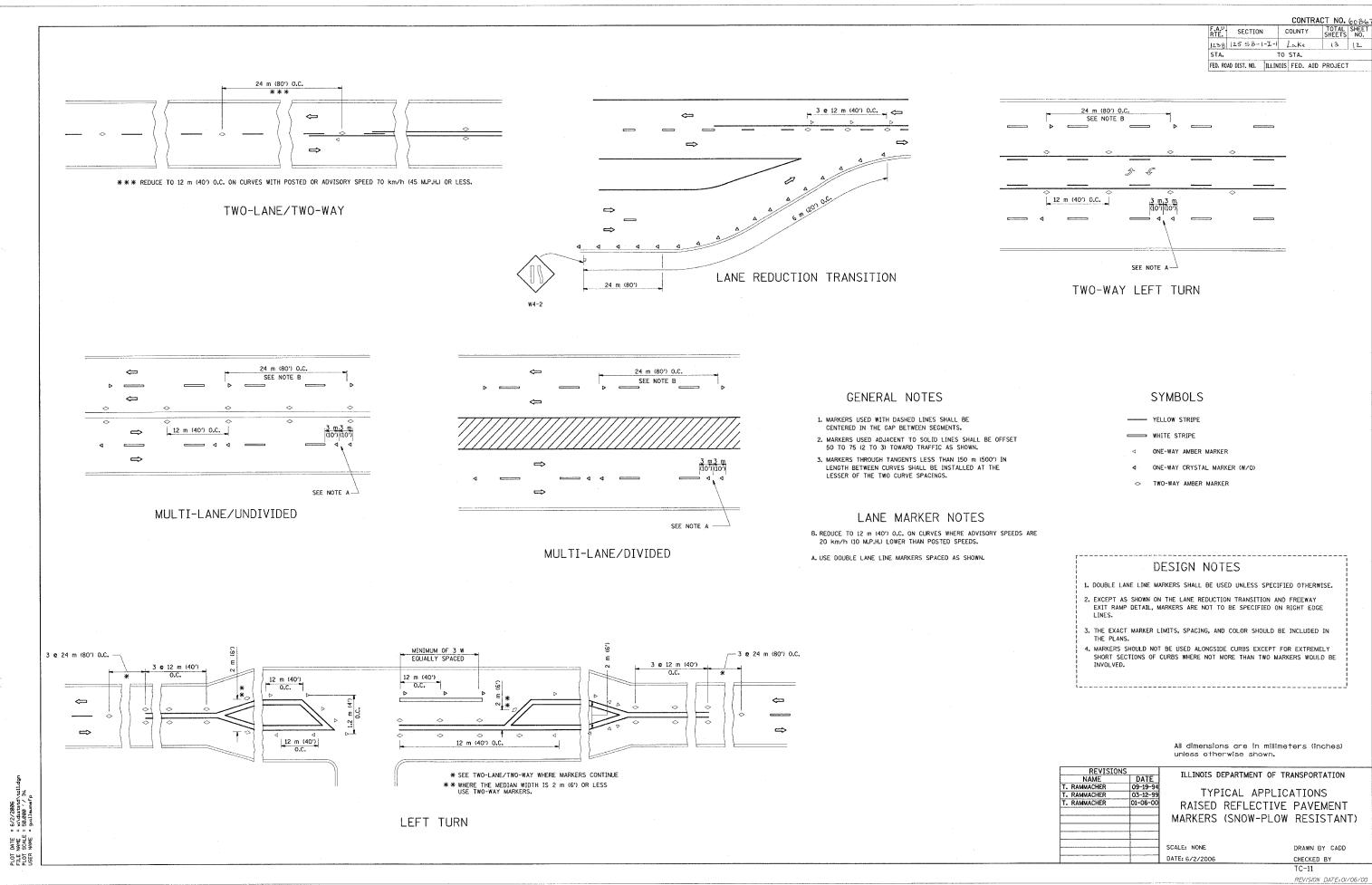
LAKE COUNTY SN 049-0131

See sheet 2 of 4 for bars, bar lists

DESIGNED P.S.J. CHECKED A.T.H. DRAWN Drew Christopher CHECKED P.S.J. A.T.H.

and quantities for parapet.





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NEVISION DATE:01700700

COUNTY TOTAL SHEET NO. RTE. SECTION 1238 12553-1-I- Lake 13 13 STA. TO STA. FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT CONSTRUCTION TYPE III BARRICADES WITH TWO FLASHING AMBER LIGHTS ON EACH. AHEAD TYPE I OR TYPE II BARRICADES WITH ONE FLASHING AMBER LIGHT ON EACH, OR TYPE III BARRICADES WITH TWO FLASHING 60 m± (200'±)-530 (21) AMBER LIGHTS ON EACH. DRIVEWAY STREET; SPEED 40 MPH OR LESS 60 m± (200'±) (40 COLLECTOR LIMIT>60 Km/h (LOCAL W20-1(0) ROAD M6-4(0)-2115 AHEAD M6-1(0)-2115

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 60 km/h (40 MPH) OR LESS AS SHOWN ON THE DRAWING AND AS DIRECTED BY THE ENGINEER:
- O) ONE ROAD CONSTRUCTION AHEAD SIGN 900×900 (36×36) WITH A FLASHER AND FLAG MOUNTED ON IT APPROXIMATELY 60 m (200') 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.
- SIDE ROAD WITH A SPEED LIMIT GREATER THAN GO km/h (40 MPH) AS SHOWN ON THE DRAWING AND AS DIRECTED BY THE ENGINEER:
- o) ONE ROAD CONSTRUCTION AHEAD SIGN 1.2 m x 1.2 m (48x48) WITH A FLASHER MOUNTED ON IT APPROXIMATELY 150 m (500°) 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-I) 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. 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
- 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.

REVISIONS								
NAME DATE	ILLINOIS DEPARTMENT OF TRANSPORTATION							
		. O. TRANSFORTATION						
LHA 6/89	TRACETO CONTROL	AND DOOTEOTION						
T. RAMMACHER 09/08/94	TRAFFIC CONTROL	AND PROTECTION						
J. OBERLE 10/18/95	FOR							
A. HOUSEH 03/06/96	, 911							
A. HOUSEH 10/15/96	SIDE ROADS, INTERSECTIONS, AND							
T. RAMMACHER 01/06/00	DRIVEWAYS							
	DILLY	LIMIS						
	SCALE:	DRAWN BY						
		Success D1						
L	DATE: 6/2/2006	CHECKED BY						

TC-10

REVISION DATE: 01/06/00

PLOT FILE PLOT USER

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