### INDEX OF SHEETS

- **COVER SHEET**
- **GENERAL NOTES**
- SUMMARY OF QQUANITITES
- TYPICAL SECTIONS
- SCHEDULES
- **PAVEMENT MARKING**
- 9-12 DETAILS

A. 3.

### **HIGHWAY STANDARDS**

701502-01

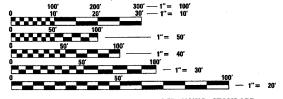
URBAN LANE CLOSURE 2L, 2W, WITH BIDIRECTIONAL LEFT TURN LANE

702001-05 TRAFFIC CONTROL DEVICES

720001 720006 SIGN PANEL MOUNTING DETAILS SIGN PANEL ERECTION DETAILS

DISTRICT 3 NO. (815) 434-6131

**PROJECT ENGINEER: D. BROVIAK** UNIT CHIEF: G. BERTOLINO **TOWNSHIP: MOMENCE & GANEER** 



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

**CONTRACT NO. 66540** 

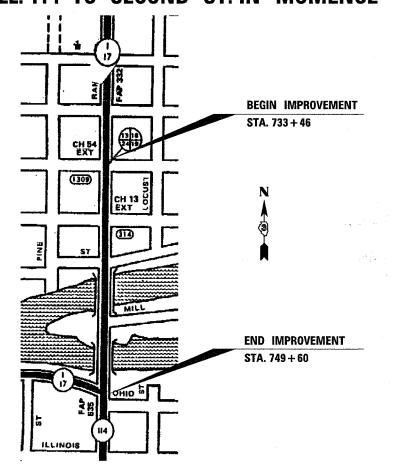
# STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

**DIVISION OF HIGHWAYS** 

# **PROPOSED** HIGHWAY PLANS

F.A.P. ROUTE 332 (IL. 1 & 17) SECTION (6Z)RS-2

**KANKAKEE COUNTY** C-93-017-05 MILL AND RESURF FROM ILL. 114 TO SECOND ST. IN MOMENCE



GROSS LENGTH = 1,614 FT. = .31 MI. NET LENGTH = 1.614 FT. = .31 MI.

COUNTY TOTAL SHEET NO. SECTION (6Z)RS-2 KANKAKEE 12 1

#### D-93-019-05



### OTHER PRINCIPLE ARTERIAL

P.V. = 85.3% S.U. = 9.9% M.U. = 4.8%

2004 ADT = 12,100

STATE OF ILLINOIS

DEPARTMENT OF TRANSPORTATION DIVISION OF HIGHWAYS

Victor Modeer PO
DIRECTOR, DIVISION OF HIGHWAYS

PRINTED BY THE AUTHORITY OF THE STATE OF ILLINOIS

F.A.P. SECTION 332 (6Z)RS-2 KANKAKEE TO STA. FED. ROAD DIST. NO. | ILLINOIS | FED. AID PROJECT

### GENERAL NOTES

(Revised January 1, 2002)

THE THICKNESS OF BITUMINOUS MIXTURES 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

AGGREGATE (PRIME COAT): FA 20 MAY BE USED IN ADDITION TO THE GRADATIONS LISTED IN THE 3RD PARAGRAPH OF ARTICLE 1003.03(c) OF THE STANDARD SPECIFICATIONS.

THE ENGINEER WILL BE THE SOLE JUDGE CONCERNING CURING TIME FOR THE VARIOUS BITUMINOUS LIFTS.

ON EXISTING PAVEMENT WHICH MAY BE SUPERELEVATED, THE NEW BITUMINOUS PAVEMENT SHALL BE BUILT WITH THE SAME SUPERELEVATION UNLESS NEW SUPERELEVATION RATES ARE GIVEN ON THE PLANS.

ABANDONED UNDERGROUND UTILITIES THAT CONFLICT WITH CONSTRUCTION SHALL BE DISPOSED OF OUTSIDE THE LIMITS OF THE RIGHT OF WAY ACCORDING TO ARTICLE 202.03 OF THE STANDARD SPECIFICATIONS AND AS DIRECTED BY THE ENGINEER. THIS WORK WILL NOT BE PAID FOR SEPARATELY BUT SHALL BE INCLUDED IN THE COST OF BITUMINOUS SURFACE REMOVAL.

ANY REFERENCE TO A STANDARD IN THESE PLANS SHALL BE INTERPRETED TO MEAN THE EDITION AS INDICATED BY THE SUBNUMBER LISTED ON THE INDEX OF SHEETS OR THE COPY OF THE STANDARD INCLUDED IN THESE PLANS.

THE FOLLOWING RATES OF APPLICATION HAVE BEEN USED IN CALCULATING PLAN QUANTITIES:

GRANULAR MATERIALS	2.05	TONS / CU YD
BITUMINOUS MAT PRIME COAT	0.08	GAL / SQ YD OR
•	0.375	GAL / SQ YD
AGGREGATE PRIME COAT	0.002	TONS / SQ YD
BITUMINOUS RESURFACING	112	LBS / SQ YD / IN
SHORT TERM PAVEMENT MARKING	10	FT /100 FT OF APPLICATION
MIX FOR CRACKS, JTS & FLGWYS	0.0003	TONS / SQ YD
LEVEL BINDER (HAND METHOD)	0.0005	TONS / SQ YD
SUPPLEMENTAL WATERING	3	GAL / SQ YD / APPLICATION
CALCIUM CHLORIDE	2	LB / SQ YD / APPLICATION
TEMPORARY DITCH CHECKS	9	BALES OR
	5	TONS AGGREGATE

THE CONTRACTOR'S ATTENTION IS DIRECTED TO THE PRESENCE OF DEPARTMENT-OWNED UNDERGROUND ELECTRICAL CABLE WITHIN THE LIMITS OF THE PROPOSED IMPROVEMENT. THE CONTRACTOR SHALL REQUEST THE ILLINOIS DEPARTMENT OF TRANSPORTATION IN OTTAWA (815-434-8417) TO LOCATE THE UNDERGROUND FACILITIES, PROVIDING A MINIMUM OF 72 HOURS NOTICE. THE DEPARTMENT IS NOT A MEMBER OF THE JOINT UTILITY LOCATING INFORMATION FOR EXCAVATORS (JULIE)

ALL DAMAGE TO DEPARTMENT OWNED UNDERGROUND FACILITIES, CAUSED BY THE CONTRACTOR SHALL BE REPAIRED TO THE SATISFACTION OF THE DEPARTMENT AT THE CONTRACTOR'S EXPENSE. THIS SHALL INCLUDE ALL TEMPORARY REPAIRS REQUIRED TO KEEP THE FACILITY OPERATIONAL WHILE MATERIAL IS BEING OBTAINED TO MAKE PERMANENT REPAIRS. SPLICING OF ELECTRIC CABLE SHALL NOT BE ALLOWED. ELECTRIC CABLE SHALL BE REPLACED FROM POLE TO POLE

MEMBERS OF JULIE KNOWN TO BE WITHIN THE LIMITS OF THE

NON-MEMBERS OF JULIE KNOWN TO BE WITHIN THE LIMITS OF THE

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION DISTRICT THREE

PREPARED BY:

Thomas R. Sanster pos DISTRICT STUDIES & PLANS ENGINEER

DATE:

February 9, 2005

EXAMINED BY:

ILLINOIS DEPARTMENT OF TRANSPORTATION

**GENERAL NOTES** 

SCALE: VERT. HORIZ. DATE

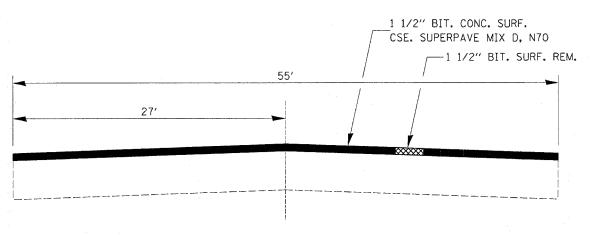
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COUNTY TOTAL SHEET

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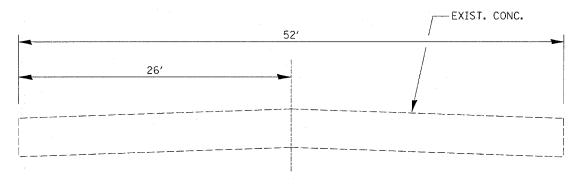
	SUMMARY OF QUAN	TITIES		
			CONSTRUCTION CO	DE TYPE:
CODE	ITEM		TOTAL	ROADWAY
	1 1 LIVI	LINITT		1000
NO.		UNIT	QUANTITY	
40300100	BITUMINOUS MATERIALS (PRIME COAT)	GALLON	226	226
40600400	MIXTURE FOR CRACKS, JOINTS, AND FLANGEWAYS	TON	2	2
40600990	TEMPORARY RAMP	SQ YD	39	39
40800030	AGGREGATE (PRIME COAT)	TON	6	6
44000006	BITUMINOUS SURFACE REMOVAL   1/2	SQ YD	2821	2821
67100100	MOBILIZATION	L SUM	1	1
67000400	ENGINEER'S FIELD OFFICE, TYPE A	CAL MO	1	1
70102622	TRAFFIC CONTROL AND PROTECTION, STANDARD 701502	L SUM	1	1
70300100	SHORT-TERM PAVEMENT MARKING	FOOT	1956	1956
70300220	TEMPORARY PAVEMENT MARKING - LINE 4"	FOOT	2804	2804
70300240	TEMPORARY PAVEMENT MARKING - LINE 6"	FOOT	582	582
70300250	TEMPORARY PAVEMENT MARKING - LINE 8"	FOOT	1063	1063
70300260	TEMPORARY PAVEMENT MARKING - LINE 12"	FOOT	286	286
70300280	TEMPORARY PAVEMENT MARKING - LINE 24"	FOOT	120	120
70301000	WORK ZONE PAVEMENT MARKING REMOVAL	SQ FT	587	587
78000100	THERMOPLASTIC LETTERS AND SYMBOLS	SQ. FT.	62	62
78000200	THERMOPLASTIC PAVEMENT MARKING LINE - 4"	F00T	972	972
78000400	THERMOPLASTIC PAVEMENT MARKING LINE - 6"	FOOT	348	348
78000500	THERMOPLASTIC PAVEMENT MARKING LINE - 8"	FOOT	414	414
78000650	THERMOPLASTIC PAVEMENT MARKING LINE - 24"	FOOT	72	72
78008200	POLYUREA PAVEMENT MARKING TYPE I - LETTERS & SYMBOLS	SQ. FT.	90	90
78008210	POLYUREA PAVEMENT MARKING TYPE I - LINE 4"	FOOT	1832	1832
78008230	POLYUREA PAVEMENT MARKING TYPE I - LINE 6"	FOOT	234	234
78008240	POLYUREA PAVEMENT MARKING TYPE I - LINE 8"	FOOT	649	649
78008250	POLYUREA PAVEMENT MARKING TYPE I - LINE 12"	FOOT	286	286
78008270	POLYUREA PAVEMENT MARKING TYPE 1 -LINE 24"	FOOT	48	48
78300100	PAVEMENT MARKING REMOVAL (hydroblasting)	SQ FT	740	740
81012300	CONDUIT IN TRENCH, 1" DIA., PVC	FOOT	65	65
81500200	TRENCH AND BACKFILL FOR ELECTRICAL WORK	FOOT	65	65
87900200	DRILL EXISTING HANDHOLE	EACH	4	4
88600100	DETECTOR LOOP, TYPE I	FOOT	420	420
X4066426	BITUMINOUS CONCRETE SURFACE COURSE, SUPERPAVE, MIX "D". N70	TON	245	245
X8860100	LOOP DETECTOR TESTING	EACH	4	4

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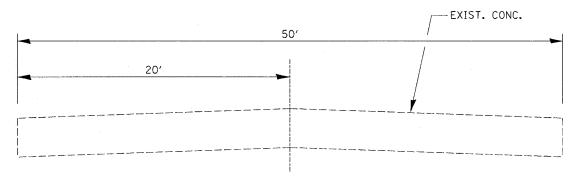
# TYPICAL SECTION

STA. 733+46 TO STA. 739+23



## **TYPICAL SECTION**

STA. 741+28 TO STA. 746+21



### **TYPICAL SECTION**

STA. 746+42.90 TO STA. 749+60

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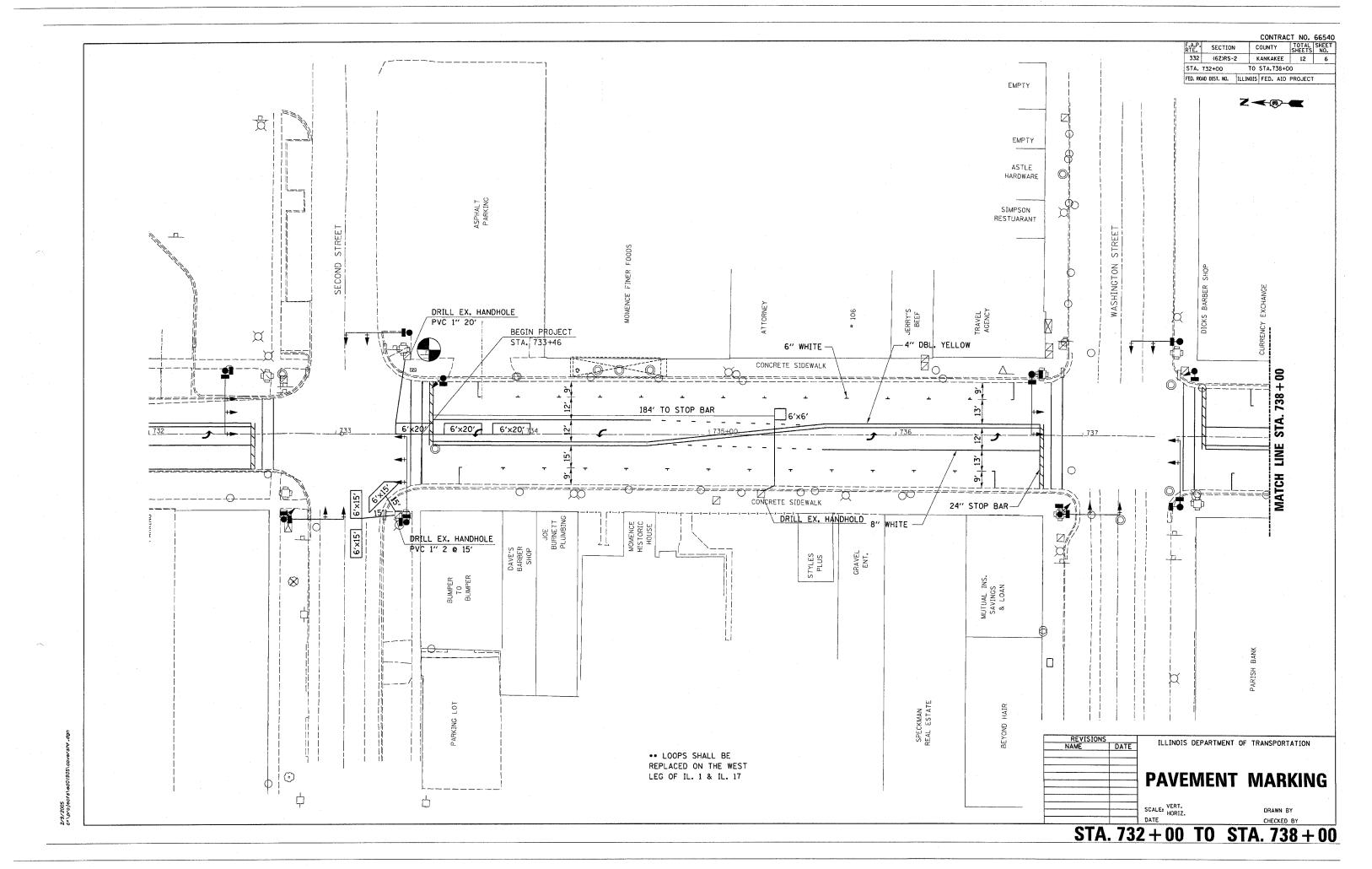
| CONTRACT NO. 66540 | RTE. | SECTION | COUNTY | TOTAL SHEET | SHEET |

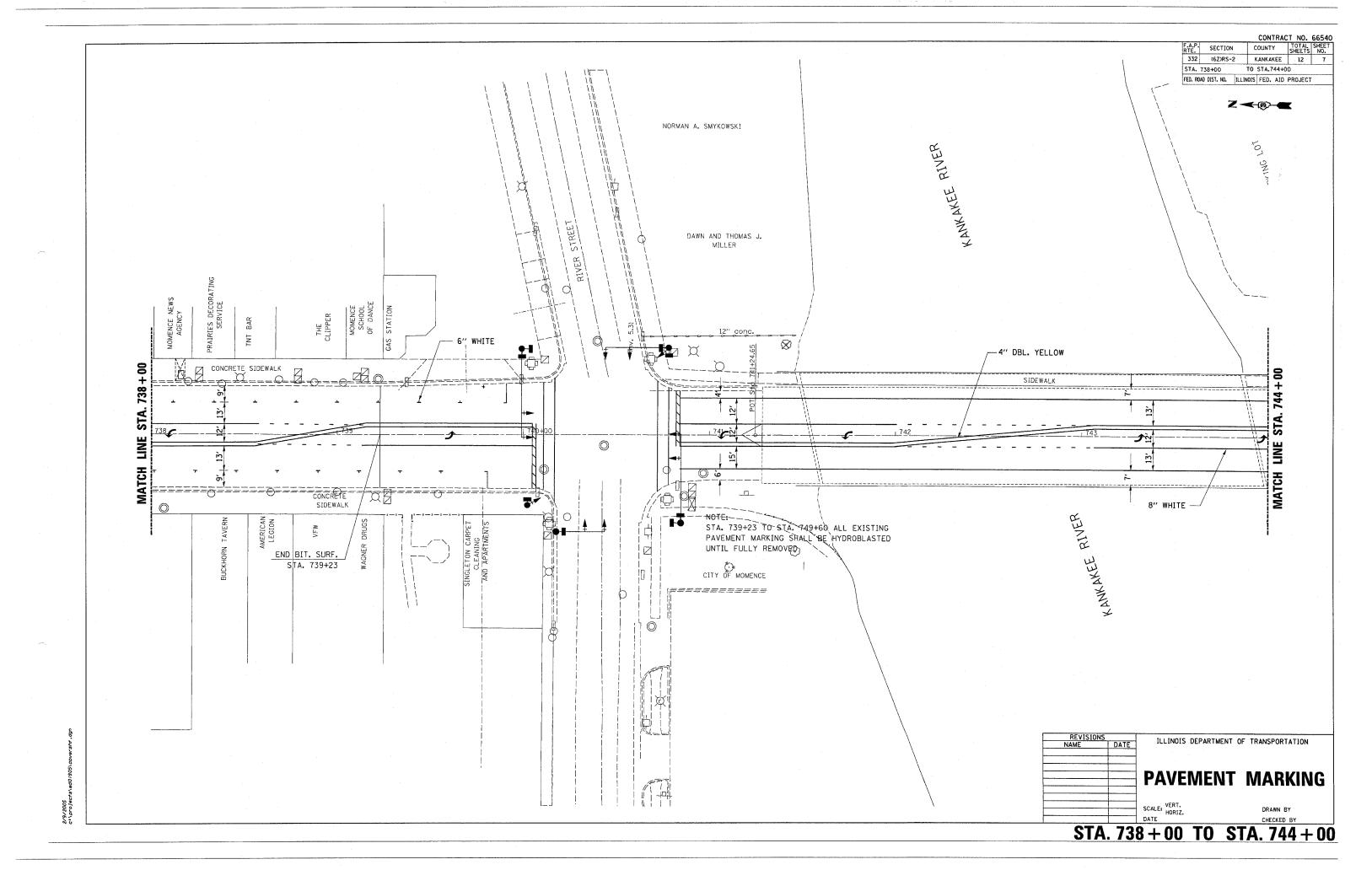
				MAIN	LINE SCHEDULE				,
				BITUMINOUS	MIX			BIT	
				CONC. SURF	FOR CRACKS	BITUMINOUS	AGG	SURF	TEMPORARY
LOCATION	LENGTH	WIDTH	AREA	SUPERPAVE	JOINTS AND	PRIME	PRIME	REMOVAL	RAMP
				MIX C N50	FLANGEWAYS	COAT	COAT	1 1/2"	
	FT	FT	SQ YD	TONS	TONS	GALLONS	TONS	SQ YD	SQ YD
733+46-739+23	577.00	44	2820.88	245.00	2.00	226.00	6.00	2821.00	39.00
TOTALS				245.00	2.00	226,00	6.00	2821.00	39.00

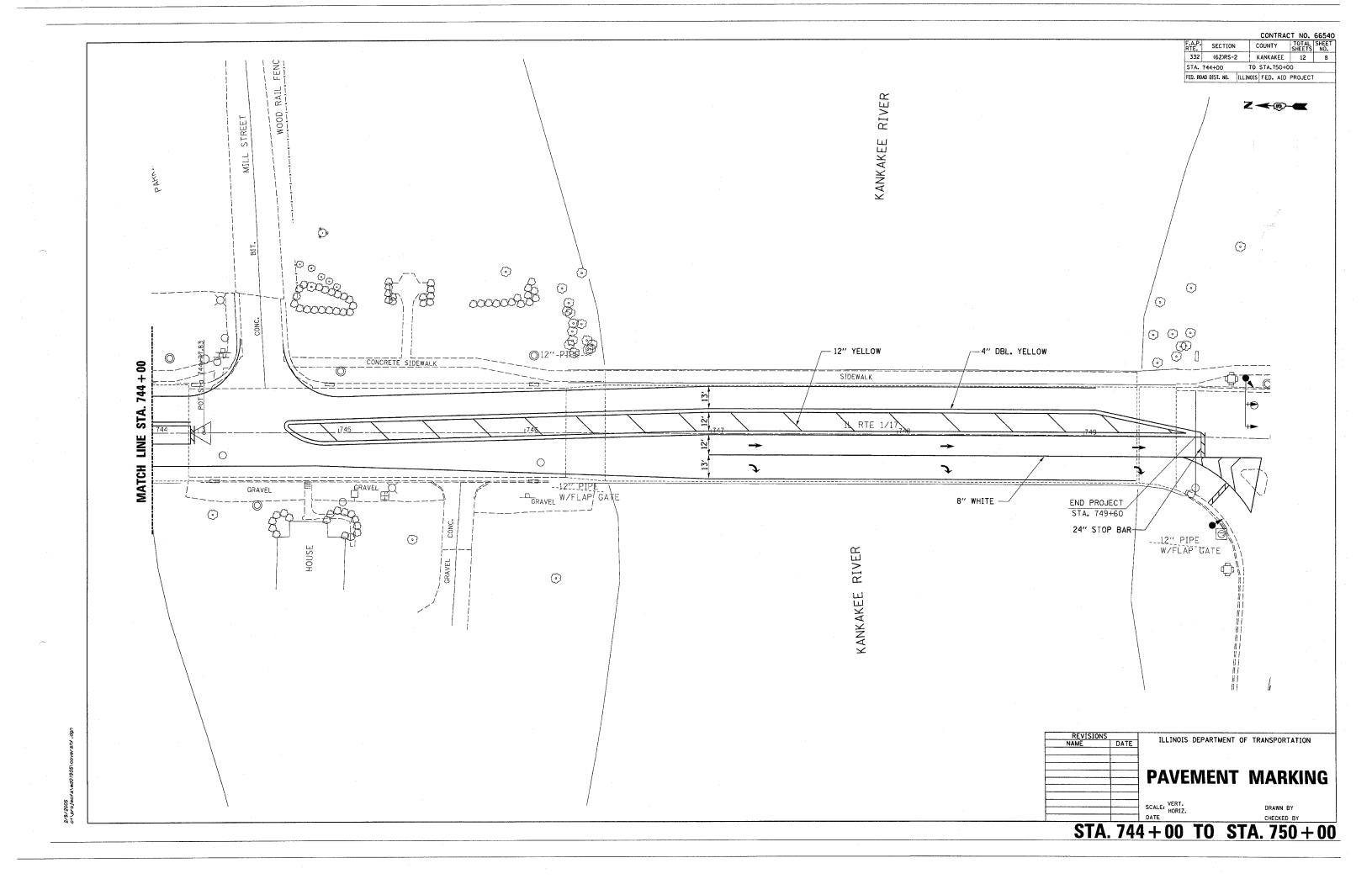
			PAV	EMENT MAR	RKING			
		TEMPO	RARY PAINT	PVMT MK		SHORT	WORK	PAVEMEN
LOCATION	4′′	6′′	8''	12''	24''	TERM PVMT MK	ZONE PAVMT MK REM	MARKING REMOVAL
	LIN FT	LIN FT	LIN FT	LIN FT	LIN FT	LIN FT	SQ FT	SQ FT
733+46-739+23	972	348	414		72	450 450	135.00 135.00	
739+23-749+58	1832	234	649	286	48	1000	317.00	740
	2804	582	1063	286	120	1900	587.00	740

					PAVEMENT	MARKING	SCHEDULE					
		THERMO	PLASTIC P	AVEMENT MAF	RKING				POLYU	REA PAVEMENT I	MARKING	
	WHITE	WHITE	WHITE	YELLOW	LETTERS &	WHITE	WHITE	WHITE	WHITE	LETTERS &	YELLOW	YELLOW
LOCATION		-			SYMBOLS					SYMBOLS		
IL 17	6′′	8''	24''	4′′		4′′	6′′	8′′	24''		4''	12''
	FT	FT	FT	FT	SQ FT	FT	FT	FT	FT	SQ. FT.	FT	FT
733+46-736+85	232	284	48	656.00	44							
737+65-739+23	116	130	24	316.00	18							
739+23-749+58						1576	234	629	48	90	1832	286
				***************************************								
TOTALS	348	414	72	972	62	1576	234	629	48	90	1832	286

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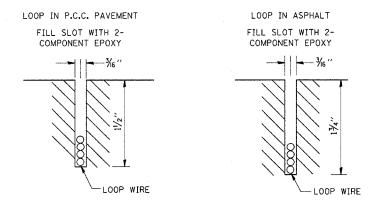




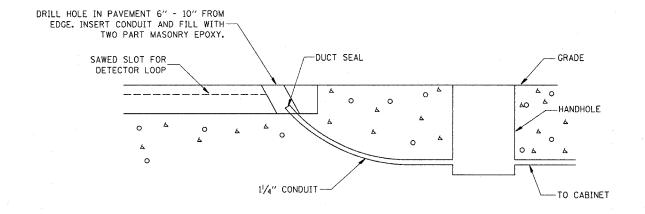


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### DETECTOR LOOP INSTALLATION



### DETECTOR LOOP LEAD-IN DETAIL

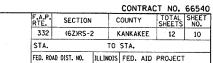


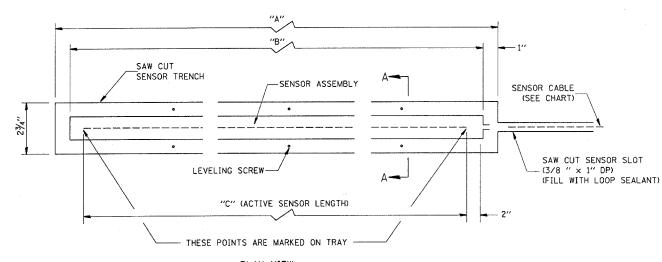
### TRAFFIC SIGNAL GENERAL NOTES

- NO ADDITIONAL COMPENSATION WILL BE ALLOWED FOR PLACING CONDUIT AT GREATER THAN 2 FEET MINIMUM DEPTH TO AVOID OBSTACLES SUCH AS UNDERGROUND UTILITIES.
- 2 AT ALL LOCATIONS WHERE DETECTOR LOOPS ARE TO BE INSTALLED OVER EXISTING DETECTOR LOOPS. THE CONTRACTOR SHALL BE REQUIRED TO MAKE TWO SEPARATE SAW CUTS THROUGH EACH EXISTING DETECTOR LOOP TO PREVENT THE POSSIBILITY OF THE EXISTING LOOP SHORTING TO CREATE A CLOSED CIRCUIT. THIS WORK SHALL BE INCIDENTAL TO THE DETECTOR LOOP PAY ITEM.
- ALL DETECTOR LOOP HARNESSES SHALL BE FURNISHED WITH PLASTIC TAGS LABELED WITH RESPECTIVE PHASES AND DIRECTION AS LISTED IN THE DETECTOR LOOP CHART. A MINIMUM TAG SIZE OF 1CM BY 2CM. ALL DETECTOR AMPLIFIERS SHALL BE LABELED THE SAME AS THE HARNESS WITH A REMOVABLE TAG. TAGS SHALL BE MADE OF A MATERIAL THAT DOES NOT ALLOW WRITING TO FADE OVER TIME.
- THE CONTRACTOR IS RESPONSIBLE FOR THE COST OF UNCOVERING OR HAND DIGGING AROUND UTILITIES AS NECESSARY, INCIDENTAL TO THE CONDUIT PAY ITEM.

- 5 THE LENGTH OF THE DETECTOR LOOP CABLE FROM THE CURB TO THE JUNCTION BOX OR HANDHOLD IS INCIDENTAL TO THE DETECTOR LOOP PAY ITEM.
- INSTALLATION OF ALL DETECTOR LOOPS SHALL BE PERFORMED AFTER THE BITUMINOUS SURFACE REMOVAL AND BEFORE THE BITUMINOUS SURFACE IS BEGUN.
- EACH DETECTOR LOOP SHALL HAVE FOUR TURNS.
- THE TESTING OF LOOPS SHALL BE COMPLETED AFTER THE BITUMINOUS SURFACE REMOVAL REMOVAL AND BEFORE THE BITUMINOUS SURFACE IS COMPLETE.
- THE DEPTH OF THE DETECTOR LOOPS SHALL MAINTAIN A CONSISTENT DEPTH IN AREAS BETWEEN MILLED SURFACE AND SHOULDER AREA.
- ANY SPLICES IN DETECTOR LOOPS SHALL BE INCIDENTAL TO DETECTOR LOOP LOOP PAY ITEM.

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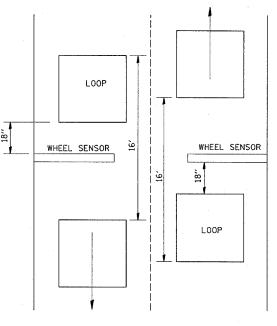
EVEN WITH PAVEMENT SURFACE
OR NO HIGHER THAN 1/6"

SENSOR ASSEMBLY
PART #7163939 OR \*7163940

\*10 - 32 × 1"
LEVELING SCREW

2¾"

SEC. A - A

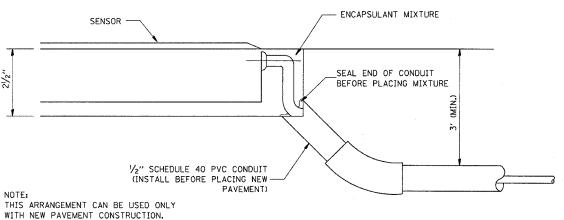


TYPICAL INSTALLATION

FOR CLASSIFICATION

PLAN VIEW

GENERAL NOTE:
THIS WORK SHALL CONSIST OF THE REMOVAL AND REPLACEMENT OF DETECTOR LOOPS AND AXLE DETECTORS (PIEZOCABLE SENSOR).
THE DETECTOR LOOPS AND AXLE DETECTORS SHALL BE REMOVED WITH THEIR ELECTRIC CABLE ALL THE WAY TO THE EXISTING CABINET CONNECTION, AND REPLACED IN THE SAME MANNER USING THE EXISTING CONDUIT, HANDHOLE, AND GULFBOX JUNCTION.



ALTERNATE SENSOR CABLE INSTALLATION

### SENSOR ASSEMBLY INSTALLATION PROCEDURE:

- USING A CHALK LINE, MARK THE SENSOR TRENCH OUTLINE ON THE PAVEMENT. SEE SYSTEM LAYOUT DRAWING FOR SENSOR LOCATIONS.
- 2. SAW CUT AROUND THE TRENCH PERIMETER TO A DEPTH OF 1 1/2".
- 3. SAW CUT THE 3/8" X 1" DP. SENSOR CABLE SLOT TO THE EDGE OF THE PAVEMENT.
- 4. REMOVE EXISTING PAVEMENT TO A DEPTH OF 1 1/2" WITHIN THE SAW CUT TRENCH PERIMETER.
- 5. THOROUGHLY CLEAN THE TRENCH OF ALL DEBRIS, DUST, ETC.
- 6. PLACE SENSOR ASSEMBLY IN THE TRENCH. ADJUST THE #10-32 LEVELING SCREWS UNTIL THE TOP OF THE SENSOR ASSEMBLY IS EVEN WITH THE PAVEMENT SURFACE. (NO HIGHER THAN 1/16").
- 7. THOROUGHLY MIX LARGE CAN OF ENCAPSULANT.

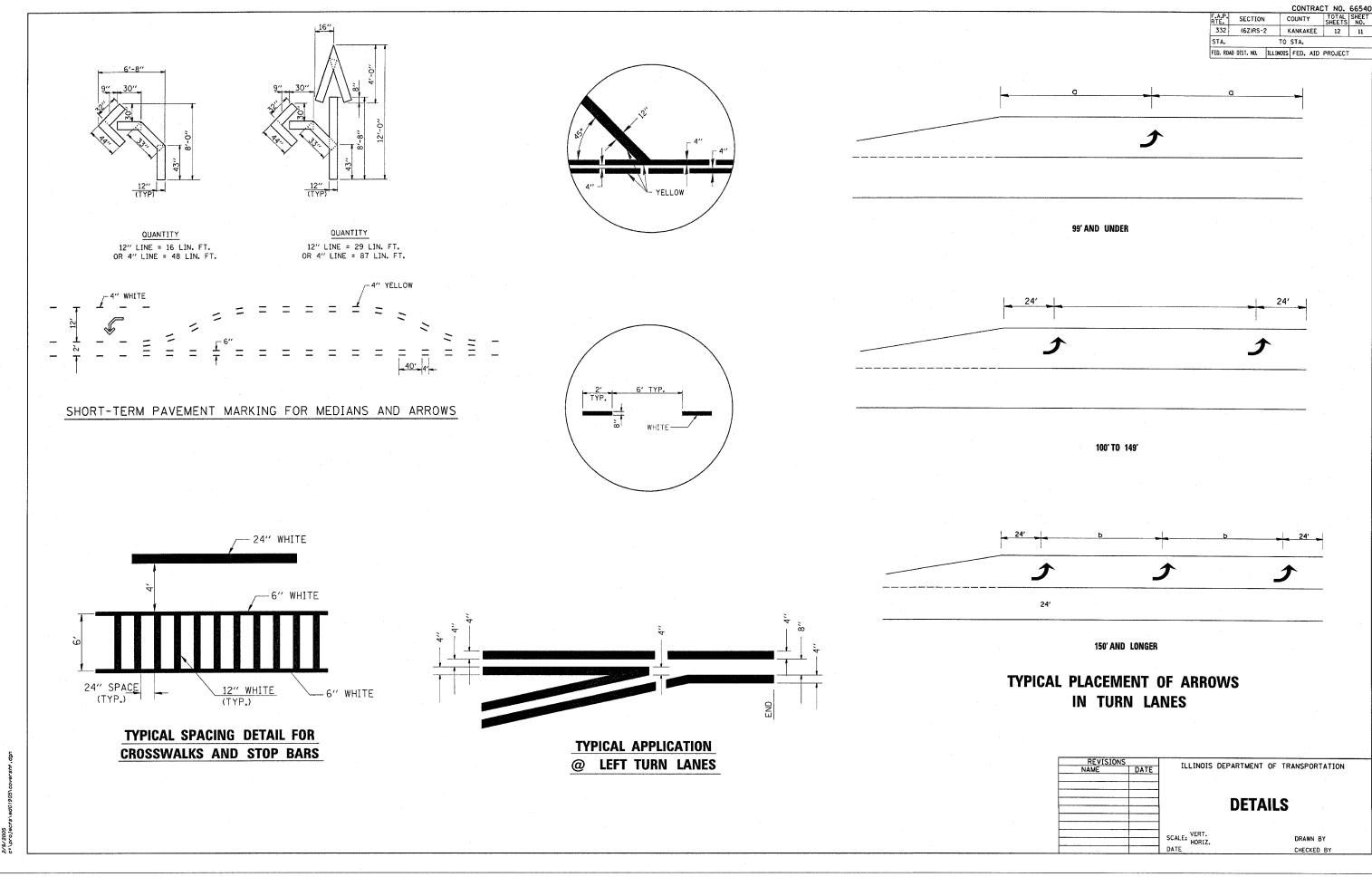
- 8. ADD HARDENER & MIX THOROUGHLY.
- 9. POUR ENCAPSULANT AROUND SENSOR TRYING NOT TO DISTURB SENSOR.
- 10. 3 TO 5 POUND WEIGHT MAY HAVE TO BE USED TO STOP FLOATING.
- 11. FILL TRENCH WITH MIXTURE UNTIL FLUSH WITH THE SURFACE OF PAVEMENT. TROWEL AS REQUIRED.
- 12. LET EPOXY CURE UNTIL HARD.
- 13. GRIND PERIMETERS IF NEEDED TO REMOVE HIGH OR ROUGH SPOTS.

NOTE: SENSOR CAN BE BENT SLIGHTLY TO CONFORM TO ROADWAY.

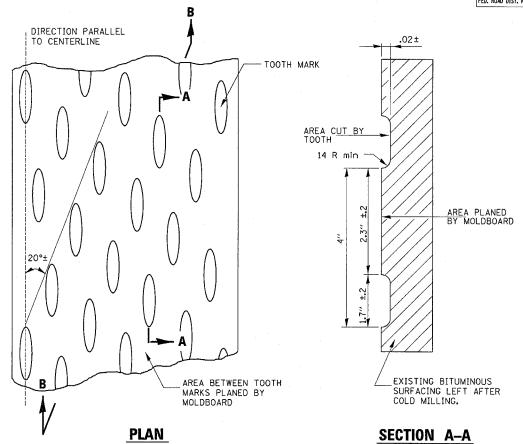
REFERENCE: INSTALLATION MANUAL #1050527

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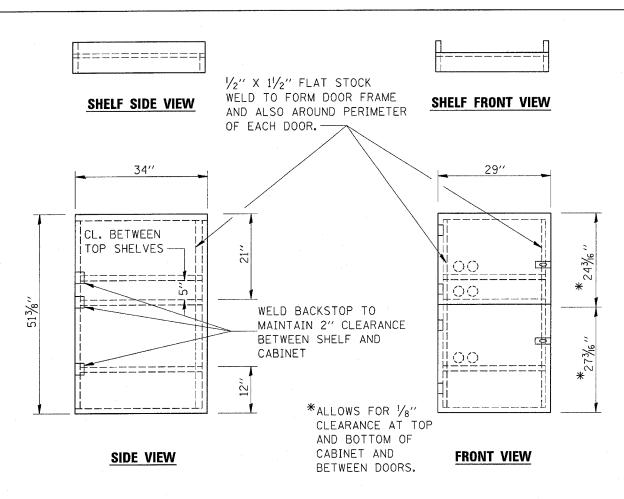
5/8" TO 3/4" AREA PLANED BY MOLDBOARD AREA CUT BY TOOTH EXISTING BITUMINOUS SURFACING LEFT AFTER COLD MILLING.

- 1. COLD MILLING SHALL CONSIST OF TWO PROCESSES: CUTTING WITH CARBIDE TEETH MOUNTED ON A ROTATING DRUM, AND PLANING WITH A MOLDBOARD MOUNTED IMMEDIATELY BEHIND THE CUTTING DRUM.
- 2. OTHER SIMILAR PATTERNS WILL BE ACCEPTABLE IF THEY CONSIST OF A SMOOTH, FLAT PLANED SURFACE INTERSPERSED WITH A PATTERN OF DISCONTINOUS LONGITUDINAL STRIATIONS.



REQUIRED COLD MILLED SURFACE TEXTURE

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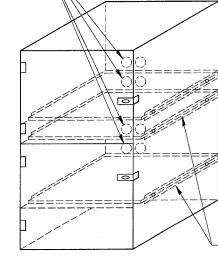


NOTES: 1. USE 16 GAUGE STEEL FOR CABINET.

- 2. THE TOP SHELF SHALL SLIDE IN OR OUT WITH THE TOP DOOR OPEN.
- 3. ALL HINGES AND HASPS WILL BE WELDED TO THE CABINET.
- 4. ALL EDGES SHALL BE GROUND SMOOTH.
- 5. TWO (2" DIA.) ACCESS HOLES WILL BE REQUIRED FOR EACH SHELF.
- 6. CABINET SHALL BE PAINTED WITH TWO COATS OF FLAT PAINT.
- 7. 2 EACH MATCHING KEY PADLOCKS, WITH 3 KEYS PROVIDED, MASTER MODEL 3 T OR EQUIVALENT.
- 8. 4 EACH PLAIN STEEL, NON-REMOVABLE PIN, NO HOLE 4"X4" SQUARE CORNER HINGES TO BE WELDED ON.
- 9. 2 EACH EXTRA HEAVY, PLAIN STEEL, FIXED STAPLE, NO HOLE, 7 1/4 " HASPS TO BE WELDED ON.

FLAT STOCK DIMENSIONS VARY DEPENDING ON TYPE OF ROLLER ASSEMBLY.

LOCKABLE COMPUTER CABINET



2" ACCESS HOLES IN

REAR OF CABINET