STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

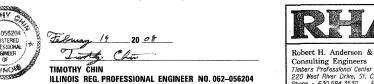
PLANS FOR PROPOSED FEDERAL AID HIGHWAY

FAU 3887 (ILLINOIS ROUTE 31) **AND FAU 1307 (WING STREET)** SECTION 96-00159-00-CH INTERSECTION IMPROVEMENTS PROJECT M-8003 (958) **KANE** COUNTY JOB NO.: C-91-031-00

Genesee Av Royal Blvd Cufford-Owasco Sin 1 Park Ming Goethe St Buckeye St Summit St Cherry St Hickory P ence AVKimball St " Pa Addison S lightand Av Cadeton Division St

PROJECT NET AND GROSS LENGTH = 1505 FT (0.29 MILE)

ELGIN TOWNSHIP



Robert H. Anderson & Ass Timbers Professional Center 220 West River Drive, St. Charles, IL 60174 Phone - 630.584.3530 Fax - 630.584.3047

TOTAL SHEET NO. SECTION 96-00159-00-CH 70 1

CONTRACT NO.: 83943



STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION **DIVISION OF HIGHWAYS** 19,2008 RELEASING FOR BID BASED ON LIMITED FEBRUARY 20, 2008 Dine M. O'Kesfe ge DEPUTY DIRECTOR OF HIGHWAYS, REGION 1 ENGINEER

OF THE STATE OF ILLINOIS

FEBRUARY 13, 2008

FOR INDEX OF SHEETS, SEE SHEET NO. 2

PROJECT LOCATED IN THE CITY OF ELGIN

IL ROUTE 31 ADT: 34,300 (2025) POSTED SPEED LIMIT: 30 MPH
DESIGN DESIGNATION: PRINCIPAL ARTERIAL **DESIGN SPEED: 30 MPH**

ADT: 15,800 (2025) POSTED SPEED LIMIT: 30 MPH **DESIGN DESIGNATION: COLLECTOR DESIGN SPEED: 30 MPH**

PROFILE HORZ. PROFILE VERT.

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

CONTRACT NO. 83943

T 42N

Maple Ln

PROJECT BEGINS STA 89 + 79.34

DIVISION OF HIGHWAYS

PROJECT ENDS STA 104 + 84.34

PRINTED BY THE AUTHORITY

6-7

10-12

13-19

20-21

22-24

SUMMARY OF QUANTITIES

SCHEDULE OF QUANTITIES

MAINTENANCE OF TRAFFIC

EROSION CONTROL PLAN

DRAINAGE AND UTILITIES
INTERSECTION DETAIL

PLAN AND PROFILE

EXISTING TYPICAL SECTIONS

PROPOSED TYPICAL SECTIONS

ALIGNMENT, TIES, AND BENCHMARK

INDEX OF SHEETS, STATE STANDARDS, AND GENERAL NOTES

STATE STANDARDS

STANDARD NO.	DESCRIPTION
000001-05	STANDARD SYMBOLS, ABBREVIATIONS, AND PATTERNS
001001 -01	AREAS OF REINFORCEMENT BARS
280001-04	TEMPORARY EROSION CONTROL SYSTEM
420001-07	
424001-05	CURB RAMPS FOR SIDEWALKS
442201-03	CLASS C AND D PATCHES
602001	CATCH BASIN TYPE A
602301-01	INLET TYPE A
602401-1	MANHOLE TYPE A
602601 -0	PRECAST REINFORCED CONCRETE FLAT SLAB TOP
604001-02	FRAME AND GRATE TYPE 1
604056-02	FRAME AND GRATE TYPE 11V
604086-01	FRAME AND GRATE TYPE 23
604091-01	FRAME AND GRATE TYPE 24
606001-03	CONCRETE CURB TYPE B AND COMBINATION CONCRETE CURB AND GUTTER
606301-03	PC CONCRETE ISLANDS AND MEDIANS
701001-01	OFF-ROAD OPERATIONS, 2L, 2W, MORE THAN 4.5 M (15') AWAY
701006-02	OFF-ROAD OPERATIONS, 2L, 2W, 4.5 M (15') TO 600 MM (24") FROM PAVEMENT ED
701301-02	LANE CLOSURE, 2L 2W, SHORT TIME OPERATIONS
701606-05	URBAN LANE CLOSURE MULTILANE 2W WITH MOUNTABLE MEDIAN
701701-05	URBAN LANE CLOSURE MULTILANE INTERSECTION
701801-03	LANE CLOSURE MULTILANE 1W OR 2W CROSSWALK OR SIDEWALK CLOSURE
701901	TRAFFIC CONTROL DEVICES
720001	SIGN PANEL MOUNTING DETAILS
720006-01	SIGN PANEL ERECTION DETAILS
720011	METAL POSTS FOR SIGNS, MARKERS & DELINEATORS
729001	APPLICATION OF TYPE A AND B METAL POSTS
780001-01	TYPICAL PAVEMENT MARKINGS
781001-02	TYPICAL APPLICATIONS RAISED REFLECTIVE PAVEMENT MARKERS
814001-01	CONCRETE HANDHOLES
814006-01	DOUBLE HANDHOLES
857006	SUPERVISED RAILROAD INTERCONNECT CIRCUIT
877001-03	STEEL MAST ARM ASSEMBLY AND POLE 16' THROUGH 55'
877006-02	STEEL MAST ARM ASSEMBLY AND POLE WITH DUAL MAST ARMS
878001-06	CONCRETE FOUNDATION DETAILS
880001	SPAN WIRE MOUNTED SIGNALS AND FLASHING BEACON INSTALLATION
880006	TRAFFIC SIGNAL MOUNTING DETAILS
886001	DETECTOR LOOP INSTALLATIONS

GENERAL NOTES CONTRACT NO.: 83943

F.A.U. RTE.	SECTION		COUNTY	TOTAL SHEETS	SHEET NO.
3887	3887 96-00159-00		KANE	70	2
STA	١.	TC	STA.		
FED.	ROAD DIST. NO.	ILLINOI	S FED. AI	D PROJECT	

ILLINOIS DEPARTMENT OF TRANSPORTATION

- 1. ALL CONSTRUCTION SHALL BE IN CONFORMANCE WITH THE APPLICABLE REQUIREMENT SET FORTH IN "THE CONSTRUCTION SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION" ADOPTED JANUARY 1, 2007 THEREINAFTER REFERRED TO AS STANDARD SPECIFICATIONS, THE LATEST EDITION OF THE "ILLINOIS MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS" IN EFFECT ON THE DATE OF INVITATION FOR BIDS; THE "SUPPLEMENTAL SPECIFICATIONS AND RECURRING SPECIAL PROVISIONS" ADOPTED JANUARY 1, 2008; AS INCLUDED IN THE CONTRACT DOCUMENTS; AND THE DETAILS AND STANDARDS CONTAINED IN THESE PLANS.
- 2. BEFORE STARTING ANY EXCAVATIONS, THE CONTRACTOR SHALL CALL "JULIE" AT 800-892-0123 OR "CUAN" (CHICAGO UTILITY ALERT NETWORK), 312-744-7000 FOR FIELD LOCATIONS OF BURIED ELECTRIC, TELEPHONE AND GAS FACILITIES. (48 HOUR NOTIFICATION IS REQUIRED)
- 3. THE LOCATIONS OF THE EXISTING UTILITIES, AS SHOWN ON THE DRAWINGS, REPRESENT DATA RECEIVED FROM VARIOUS SOURCES, IT IS NOT GUARANTEED TO BE CORRECT OR ALL INCLUSIVE. THE CONTRACTOR SHALL CONDUCT HIS OWN INVESTIGATIONS INTO THE LOCATION, SIZE, DEPTH, AND NATURE OF ANY AND ALL EXISTING UTILITIES WHICH MAY INTERFERE WITH THE WORK UNDER THIS CONTRACT. ANY EXISTING UTILITIES WHICH ARE TO REMAIN IN SERVICE SHALL BE FULLY PROTECTED BY THE CONTRACTOR AND ANY DAMAGE CAUSED BY THE CONSTRUCTION SHALL BE IMMEDIATELY REPAIRED AT NO ADDITIONAL COST TO THE DEPARTMENT.
- 4. THE CONTRACTOR SHALL COORDINATE CONSTRUCTION ACTIVITIES WITH UTILITY COMPANIES AND THE CITY OF ELGIN ENGINEER, JOE EVERS (847) 931-5958.
- 5. THE CONTRACTOR WILL NOT BE ALLOWED TO SET UP A YARD OR FIELD OFFICE ON STATE PROPERTY WITHOUT WRITTEN PERMISSION FROM THE DEPARTMENT.
- 6. IT IS THE CONTRACTOR'S RESPONSIBILITY TO ASCERTAIN EXISTING FIELD CONDITIONS
 BEFORE BIDDING ON THIS PROJECT, SPECIFICALLY AS THEY RELATE TO LUMP SUM PAY
 ITEMS
- 7. ALL STORM SEWERS CONNECTIONS WITH PIPES 27 INCHES (675 MM) DIAMETER AND SMALLER SHALL BE MADE WITH PRECAST "TEE" OR "WYE" PIPES. FOR PROPOSED STORM SEWER PIPES LARGER THAN 27 INCHES (675 MM) DIAMETER, OPENINGS OF THE SPECIFIED DIAMETER SHALL BE MADE IN THE PIPE AT THE TIME IT IS MANUFACTURED. PRECAST "TEE" AND "WYE" PIPE CONNECTIONS FOR PROPOSED STORM SEWER WILL NOT BE PAID FOR SEPARATELY BUT WILL BE INCLUDED IN THE COST FOR THE STORM SEWERS.
- 8. ALL EXCAVATION AND EMBANKMENT LOCATIONS REQUIRING SEEDING OR SODDING SHALL BE CONSTRUCTED TO 4 IN BELOW FINISHED GRADE LINE TO ALLOW TOPSOIL PLACEMENT.
- 9. BUTT JOINTS WILL BE INSTALLED AT THE ENDS OF ALL RESURFACING (WHERE RESURFACING MEETS EXISTING PAYEMENT), IN ACCORDANCE WITH THE "BUITT JOINT AND HMA TAPER DETAILS" SHEET INCLUDED IN THE PLANS, INNESS OTHERWISE SPECIFIED.
- 10. MAINTENANCE OF TRAFFIC-GENERAL: TRAFFIC CONDITIONS, ACCIDENTS AND OTHER UNFORESEEN EMERGENCY CONDITIONS MAY REQUIRE THE ENGINEER TO RESTRICT, MODIFY OR REMOVE LANE CLOSURES OR CHANNELIZATION SHOWN IN THE PLANS. THE CONTRACTOR SHALL RESPOND WITHIN 30 MINUTES OF THE TIME OF NOTIFICATION BY THE ENGINEER FOR THE MAINTENANCE OF TRAFFIC CONTROL DEVICES.
- 11. PAVEMENT GRADES: THE GRADES SHOWN ON THE PLANS ARE FINISHED GRADES OF PROPOSED PAVEMENT OR SURFACE COURSE, UNLESS OTHERWISE INDICATED.
- 12. PROTECTION OF AND RESTORATION OF TRAFFIC SIGNS: PRIOR TO THE BEGINNING OF CONSTRUCTION OPERATIONS, THE CONTRACTOR WILL PROVIDE A SIGN LOG OF ALL EXISTING SIGNS WITHIN THE LIMITS OF THE CONSTRUCTION ZONE. THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING THE ACCURACY OF THE SIGN LOG THROUGHOUT THE DURATION OF THIS PROJECT. ALL EXISTING TRAFFIC SIGNS SHALL MAINTAIN, FURNISH, AND REPLACE AT HIS EXPENSE, ANY TRAFFIC SIGN OR POST WHICH HAS BEEN DAMAGED OR LOST BY THE CONTRACTOR.
- 13. ALL EXISTING SIGNING SHALL BE MAINTAINED IN PLACE UNTIL NEW SIGNING IS ERECTED. REMOVAL OF EXISTING SIGNING SHALL NOT PROCEED UNTIL DIRECTED BY THE ENGINEER. THE CONTRACTOR SHALL COVER EXISTING SIGNING TO PREVENT CONFUSION AS DIRECTED BY THE ENGINEER. THE COST OF THIS REQUIREMENT SHALL BE CONSIDERED INCIDENTAL TO THE CONTRACT.
- 14. TRAFFIC CONTROL DEVICES: ALL TRAFFIC CONTROL DEVICES USED FOR THE MAINTENANCE OF TRAFFIC AS DETAILED ON THE PLANS SHALL BE REFLECTORIZED PRIOR TO INSTALLATION AND CLEANED AS NECESSARY THROUGHOUT THE DURATION OF THE CONTRACT. THIS WORK SHALL BE INCIDENTAL TO THE CONTRACT.
- 15. THE CONTRACTOR SHALL PROVIDE ACCESS TO ABUTTING PROPERTY AT ALL TIMES DURING THE CONSTRUCTION OF THIS PROJECT.
- 16. A SHRINKAGE FACTOR OF 15% WAS USED FOR EARTH EXCAVATION.
- 17. SAW CUTS SHALL BE CONSIDERED INCIDENTAL TO THE WORK FOR PAVEMENT PATCHING.
- 18. THE GENERAL CONTRACTOR IS REQUIRED TO HIRE AN ENVIRONMENTAL FIRM WITH AT LEAST FIVE (5) DOCUMENTED LEAKING UNDERGROUND STORAGE TANK (LUST) CLEANUPS OR THAT IS PREQUALIFIED IN HAZARDOUS WASTE BY THE DEPARTMENT TO REMEDIATE THE SOIL CONTAMINATION AND MONITOR FOR WORKER PROTECTION.
- 19. REFER TO THE FINAL PRELIMINARY SITE INVESTIGATION REPORT INCLUDED IN THE SPECIAL PROVISIONS FOR THE LIMITS OF THE NON-SPECIAL WASTE.

DATE

20.THE CONNECTION OF ALL EXISTING AND PROPOSED STORM SEWERS TO THE EXISTING AND PROPOSED STRUCTURES SHALL BE INCLUDED IN THE COST OF THE PROPOSED STORM SEWER SYSTEM.

REVISIONS NAME

NOTE: ALL BOXED GENERAL NOTES ARE INCIDENTAL ITEMS.



ILLINOIS DEPARTMENT OF TRANSPORTATION
ILLINOIS ROUTE 31 AND WING STREET

INDEX OF SHEETS, STATE STANDARDS, AND GENERAL NOTES

SCALE: VERT.
HORIZ. NONE
DATE: FEBRUARY 13, 2008

DRAWN BY: TC DESIGN BY: TC CHECKED BY: KMA

COLD No. PAY TEM		SUMMARY OF QUANTITIES			1000	Y031-1F	Y031-3D NON-PARTICIPATIN
200000000 THE REMANN, AND THE UNITS DESCRIPTION INT. 3.6 Miles	CODE NO.	PAY ITEM	UNIT			<u> </u>	
20020020 THE ROOF PRIVATE OF STREET, STREE	20100110	TREE REMOVAL (6 TO 15 UNITS DIAMETER)	UNIT	7	40		
20000000 CARTI- CONSISTION OF THE STREET WATERS	20100210	TREE REMOVAL (OVER 15 UNITS DIAMETER)	UNIT	36	36		
20200000 PRINTER, AND DEFENDANT, SERVICENE 01 FO 500	20101200	TREE ROOT PRUNING	EACH	3	3		
20000000 PRODUCE SERVICE AND PURCE, 2" 90 10 254 224 225 2	20200100 E	EARTH EXCAVATION	CU YD	1259	1259		
EXCERTION PROPERTY Company C	20201200 F	REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL	CU YD	520	520		
2200005 1000001 10000001 10000001 10000001 10000001 10000001 10000001 10000001 10000001 100000001 100000001 100000001 100000001 100000001 100000001 100000000	20700420 F	POROUS GRANULAR EMBANKMENT, SUBGRADE	CU YD	234	234		:
#2000000 NINCORN PETELLIZER NUTSERS** FOUND 24 28 28 28000000 POINCERN PETELLIZER NUTSERS** FOUND 24 28 28 28000000 POINCERN PETELLIZER NUTSERS** FOUND 24 28 28 28 28 28 28 28	20800150	TRENCH BACKFILL	CU YD	331	331		
### ###	21101615	TOPSOIL FURNISH AND PLACE, 4"	SQ YD	1511	1511		
#25000000 POT ASSIDIT PETILIZER AUTRIET *** \$250010	25000400 N	NITROGEN FERTILIZER NUTRIENT	POUND	29	29		
### ### ### ### ### ### ### ### ### ##	25000500 F	PHOSPHORUS FERTILIZER NUTRIENT	POUND	29	29		
20000055 13-7000607 MORPHE SERVICE COURSE BY 100	25000600 F	POTASSIUM FERTILIZER NUTRIENT	POUND	29	29		
REMONDROON REPRESENTE REPOSAN BARRETT	25200110 S	SODDING, SALT TOLERANT	SQ YD	1511	1511		
	28000255	TEMPORARY EROSION CONTROL SEEDING		0.30			
SECOND PRINCIPACE CRANLET CAMPET CAMPET CAMP SECOND PRINCIPACE CRANLET CAMPET	28000400 F	PERIMETER EROSION BARRIER	FOOT	2232	2232		
15500200							
			SQ YD	3439	3439		
4400000			SQ YD	2245	2245		
MORDORED MOTHATIX ASPNALT SURFACE SHOWAL - BUTY ADDRT							
MOTHER ASPART BIDGER COURSE, IL-130, NTO							
44802420				 			
HOT-MIX ASPHALT SUPFACE COURSE, MIX "C", MSO							
40603340 POT-MIX ASPHALT SURFACE COURSE, MIX "P", NFO TON 142 142 40603998 POLIVERIZED HOT-MIX ASPHALT SURFACE COURSE, MIX "P", NFO TON 1042 1042 426021300 PORTICAND CEMENT CONCRETE DRIVEWAY PAYEMENT, 6 INCH S0 Y0 11 11 423024000 PORTICAND CEMENT CONCRETE DRIVEWAY PAYEMENT, 8 INCH S0 Y0 11 11 423024000 PORTICAND CEMENT CONCRETE DRIVEWAY PAYEMENT, 8 INCH S0 Y0 16 66 42400200 PORTICAND CEMENT CONCRETE DRIVEWAY PAYEMENT, 8 INCH S0 Y0 16 66 42400200 PORTICAND CEMENT CONCRETE DRIVEWAY PAYEMENT, 8 INCH S0 YT 10753 10753 42400200 PORTICAND CEMENT CONCRETE SIDEMALX 5 INCH S0 YT 10753 10753 42400200 DETECTARLE MARNINGS S0 YT 17					***************************************		
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42300200 PORTLAND CEMENT CONCRETE DRIVENAY PAVEMENT, 6 INCH S0 Y0 68 66 C C C C C C C C C							
### ### ##############################	42001300 F	PROTECTIVE COAT	SQ YD	79	79		
42400200 PORTLAND CEMENT CONCRETE SIDEMALK 5 INCH		PORTLAND CEMENT CONCRETE DRIVEWAY PAVEMENT, 6 INCH	SQ YD	11	11		
### ### ##############################		PORTLAND CEMENT CONCRETE DRIVEWAY PAVEMENT, 8 INCH	SQ YD	68	68		
### ### ### ### ### ### ### ### ### ##	42400200 F	PORTLAND CEMENT CONCRETE SIDEWALK 5 INCH	SQ FT	10753	10753		
44000155 HOT-MIX ASPHALT SURFACE REMOVAL, 1 1/2" SQ YO 1279 1279 1279 14000156 HOT-MIX ASPHALT SURFACE REMOVAL, 1 3/4" SO YO 1790 7190			SQ FT			_	
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44000500 COMBINATION CURB AND GUTTER REMOVAL FOOT 2731							The state of the s
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44201765 CLASS D PATCHES, TYPE II, 10 INCH							
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44201771					Transmission research to the contract of the c		
S0104600 CONCRETE RETAINING WALL REMOVAL FOOT 60 60				ļ			
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60107600 PIPE UNDERDRAINS 4" FOOT 668 668							
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I 60201110 CATCH BASINS, TYPE A, 4'-DIAMETER, TYPE 11V FRAME AND GRATE FACH 2 2							
60201340 CATCH BASINS, TYPE A, 4'-DIAMETER, TYPE 24 FRAME AND GRATE EACH 7 7	60201110	CATCH BASINS, TYPE A, 4'-DIAMETER, TYPE 11V FRAME AND GRATE	EACH	2	2		

SUMMARY OF QUANTITIES				1000	Y031-1F	Y031-3D NON-PARTICIPATIN
CODE NO.	PAY ITEM	UNIT	TOTAL			
60221100	MANHOLES, TYPE A, 5'-DIAMETER, TYPE 1 FRAME, CLOSED LID	EACH	4	4		
60237470	INLETS, TYPE A, TYPE 24 FRAME AND GRATE	EACH	7	7		
60250500	CATCH BASINS TO BE ADJUSTED WITH NEW TYPE 1 FRAME, CLOSED LID	EACH	2	2		
60251740	CATCH BASINS TO BE ADJUSTED WITH NEW TYPE 24 FRAME AND GRATE	EACH	5	5		
60256940	MANHOLES TO BE ADJUSTED WITH NEW TYPE 24 FRAME AND GRATE	EACH	1	1		
60260100	INLETS TO BE ADJUSTED	EACH	1	1		
60266500	VALVE VAULTS TO BE REMOVED	EACH	1	1		
60300350	MANHOLE FRAMES TO BE ADJUSTED	EACH	6	6		
60300405	VALVE BOX FRAMES TO BE ADJUSTED	EACH	4	4		
60500040	REMOVING MANHOLES	EACH	4	4		
60500050	REMOVING CATCH BASINS	EACH	9	9		
60500060	REMOVING INLETS	EACH	1	1 .		
60600605	CONCRETE CURB, TYPE B	FOOT	245	245		
60603800	COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.12	FOOT	58	58		4
60605000	COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.24	FOOT	2766	2766		
	CONCRETE MEDIAN SURFACE, 4 INCH	SQ FT	534	534		
60618300 60619200	CONCRETE MEDIAN, TYPE SB-6.06	SQ FT	565	565		
		FOOT	16	16		
63200310	GUARDRAIL REMOVAL		1194	1194		
66900200	NON-SPECIAL WASTE DISPOSAL	CU YD				
66900450	SPECIAL WASTE PLANS AND REPORT	L SUM	1	1		
66900530	SOIL DISPOSAL ANALYSIS	EACH	6	6		
67000400	ENGINEER'S FIELD OFFICE, TYPE A	CAL MO	7	7		
67100100	MOBILIZATION	L SUM	1	1		
70101700	TRAFFIC CONTROL AND PROTECTION	L SUM	1	1		
70102625	TRAFFIC CONTROL AND PROTECTION, STANDARD 701606	L SUM	1	1		
70102640	TRAFFIC CONTROL AND PROTECTION, STANDARD 701801	L SUM	1	1		
70102550	TRAFFIC CONTROL AND PROTECTION FOR TEMPORARY DETOUR	L SUM	1	1		
70300610	TEMPORARY PAINT PAVEMENT MARKING, LETTERS AND SYMBOLS	SQ FT	170	170		
70300725	TEMPORARY PAINT PAVEMENT MARKING 4" WHITE	FOOT	4235	4235		
70300735	TEMPORARY PAINT PAVEMENT MARKING 6" WHITE	FOOT	832	832		
70300760	TEMPORARY PAINT PAVEMENT MARKING 24" WHITE	FOOT	136	136		
70300825	TEMPORARY PAINT PAVEMENT MARKING 4" YELLOW	FOOT	9702	9702		
70300845	TEMPORARY PAINT PAVEMENT MARKING 12" YELLOW	FOOT	226	226		
70301000	WORK ZONE PAVEMENT MARKING REMOVAL	SQ FT	5729	5729		
72000100	SIGN PANEL - TYPE 1	SQ FT	64		64	
72000200	SIGN PANEL - TYPE 2	SQ FT	25		25	
72400500	RELOCATE SIGN PANEL ASSEMBLY - TYPE A	EACH	12	12		
78000100	THERMOPLASTIC PAVEMENT MARKING - LETTERS AND SYMBOLS	SQ FT	463	463		
78000200	THERMOPLASTIC PAVEMENT MARKING - LINE 4"	FOOT	6955	6955		
78000400	THERMOPLASTIC PAVEMENT MARKING - LINE 6"	FOOT	1551	1551		
78000600	THERMOPLASTIC PAVEMENT MARKING - LINE 12"	FOOT	342	342		
78000650	THERMOPLASTIC PAVEMENT MARKING - LINE 24"	FOOT	150	150		<u></u>
78100100	RAISED REFLECTIVE PAVEMENT MARKER	EACH	157	157		
78300200	RAISED REFLECTIVE PAVEMENT MARKER REMOVAL	EACH	146	146		
81000600	CONDUIT IN TRENCH, 2" DIA., GALVANIZED STEEL	FOOT	1696		1696	,
81000700	CONDUIT IN TRENCH, 2 1/2 " DIA., GALVANIZED STEEL	FOOT	33		33	
81000700	CONDUIT IN TRENCH, 3" DIA., GALVANIZED STEEL	FOOT	51	***************************************	51	
81001000	CONDUIT IN TRENCH, 4" DIA., GALVANIZED STEEL	FOOT	125		125	
		FOOT	123		123	
81001100	CONDUIT IN TRENCH, 5" DIA., GALVANIZED STEEL					
81018500	CONDUIT PUSHED, 2" DIA., GALVANIZED STEEL	FOOT	80		80	
81018900	CONDUIT PUSHED, 4" DIA., GALVANIZED STEEL	FOOT	585		585	
81400100	HANDHOLE	. EACH	9		9	
R1400200	HEAVY-DUTY HANDHOLE	EACH	3		3	
31400300	DOUBLE HANDHOLE	EACH	2		2	i e e e e e e e e e e e e e e e e e e e

* SPECIALITY ITEMS



ILLINOIS DEPARTMENT OF TRANSPORTATION
ILLINOIS ROUTE 31 AND WING STREET

SUMMARY OF QUANTITIES

SCALE: VERT. HORIZ, NONE DATE: FEBRUARY 13, 2008

DRAWN BY: TC DESIGN BY: TC CHECKED BY: KMA

	SUMMARY OF QUANTITIES			1000	Y031-1F	Y031-30 NON-PARTICIPAT
CODE NO.	PAY ITEM	UNIT	TOTAL			
81900200	TRENCH AND BACKFILL FOR ELECTRICAL WORK	FOOT	QUANTITY 2070		2070	
84200700	LIGHTING FOUNDATION REMOVAL	EACH	1		1	
85000200	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1		1	
86000105	MASTER CONTROLLER (SPECIAL)	EACH	1		1	
86400100	TRANSCEIVER - FIBER OPTIC	EACH	2		2	
87301215	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C	FOOT	900		900	
87301225	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	3500		2700	800
87301245	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	FOOT	3200		3200	
87301255	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C	FOOT	400		400	
87301305	ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1 PAIR	FOOT	4078		4078	
87301805	ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2 C	FOOT	40	***************************************	40	
87502440	TRAFFIC SIGNAL POST, GALVANIZED STEEL 10 FT.	EACH	1		1	
87502450	TRAFFIC SIGNAL POST, GALVANIZED STEEL 11 FT.	EACH	1		1	
87502480	TRAFFIC SIGNAL POST, GALVANIZED STEEL 14 FT.	EACH	1		1	
87502520	TRAFFIC SIGNAL POST, GALVANIZED STEEL 18 FT.	EACH	1	1	1	
87700170	STEEL MAST ARM ASSEMBLY AND POLE, 26 FT.	EACH	1		1	
					 	
87700180	STEEL MAST ARM ASSEMBLY AND POLE, 28 FT.	EACH	1		1	
87700210	STEEL MAST ARM ASSEMBLY AND POLE, 34 FT.	EACH	1		1	
87702450	STEEL MAST ARM ASSEMBLY AND POLE WITH DUAL MAST ARMS, 30 FT. AND 38 FT.	EACH	1		1	
87800100	CONCRETE FOUNDATION, TYPE A	FOOT	16		16	
87800150	CONCRETE FOUNDATION, TYPE C	FOOT	4		4	
87800400	CONCRETE FOUNDATION, TYPE E 30-INCH DIAMETER	FOOT	20		20	
87800415	CONCRETE FOUNDATION, TYPE E 36-INCH DIAMETER	FOOT	22	***************************************	22	
87900200	DRILL EXISTING HANDHOLE	EACH	1		1	
88030020	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST-ARM MOUNTED	EACH	9		9	
88030050	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED	EACH	3		3	
88030110	SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST-ARM MOUNTED	EACH	1		1	
88030210	SIGNAL HEAD, LED, 2-FACE, 3-SECTION, BRACKET MOUNTED	EACH	1		1	
88030240	SIGNAL HEAD, LED, 2-FACE, 1-3 SECTION, 1-5 SECTION, BRACKET MOUNTED	EACH	l .		1	
88102710	PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED	EACH	2		2	
88102740	PEDESTRIAN SIGNAL HEAD, LED, 2-FACE, BRACKET MOUNTED	EACH	3		3	
88200210	TRAFFIC SIGNAL BACKPLATE, LOUVERED, ALUMINUM	EACH	10		10	
88500100	INDUCTIVE LOOP DETECTOR	EACH	24	-	24	
88600100	DETECTOR LOOP, TYPE I	FOOT	541		541	
88700200	LIGHT DETECTOR	EACH	4		0	4
88700300	LIGHT DETECTOR AMPLIFIER	EACH	1		0	1
88800100	PEDESTRIAN PUSH-BUTTON	EACH	5	and and delice and analysis and an array of	5	
89000100	TEMPORARY TRAFFIC SIGNAL INSTALLATION	EACH	1.	· · · · · · · · · · · · · · · · · · ·	í	
89100400	ILLUMINATED SIGN, LED	EACH	4		4	
89501410	RELOCATE EXISTING EMERGENCY VEHICLE PRIORITY SYSTEM, PHASING UNIT	EACH	1	The second secon		Verification of the contraction
89502375	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	2		2	
89502380	REMOVE EXISTING HANDHOLE	EACH	3		3	<u> </u>
89502385	REMOVE EXISTING CONCRETE FOUNDATION	EACH	5	en era harrada automostratorio	5	The state of the s
Z0048665	RAILROAD LIABILITY INSURANCE	L SUM	1.	1	-	
Z0076600	TRAINEES	HOUR	500	590		THE COMMISSION OF THE PROPERTY
A2007116	TREE, QUERCUS RUBRA (RED OAK), 2" CALIPER, BALLED AND BURLAPPED	EACH	7	7		
D2003124	EVERGREEN, PSUEDOTSUGA MENZIESII (DOUGLAS FIR), 2' HEIGHT, BALLED AND BURLAPPED	EACH	1			
XX002264	ELECTRIC CABLE IN CONDUIT, RAILROAD, NO. 14 3C	FOOT	120		120	
				100	150	
XX005656	INLET FILTER CLEANING	EACH	168	168		
X8620020	UNINTERRUPTABLE POWER SUPPLY	EACH	1	001	1	
X0322256	TEMPORARY INFORMATION SIGNING	SQ FT	204	204		
X0322662	TEMPORARY SIGNING	EACH	7	7	<u> </u>	-
X0322923	SEGMENTAL CONCRETE BLOCK WALL	SQ FT	133	133		
X0322925	ELECTRIC CABLE IN CONDUIT, TRACER, NO. 14 1C	FOOT	1840	and the second second second second	1840	
X0323463	BILLBOARD REMOVAL	EACH	1	1	-	
X0323800	FENCE REMOVAL SPECIAL	L SUM)			
X0324007	OPTIMIZE TRAFFIC SIGNAL SYSTEM	-EACH	1	· · · · · · · · · · · · · · · · · · ·	1	
X4021000	TEMPORARY ACCESS (PRIVATE ENTRANCE)	F.ACH	1 .	1		
X4022000	TEMPORARY ACCESS (COMMERCIAL ENTRANCE)	EACH	7	7		
X7015005	CHANGEABLE MESSAGE SIGN	CAL DA	17	17	*** **** *****************************	. `
X7240205	REMOVE SIGN COMPLETE	EACH	2	3		
X8050015	SERVICE INSTALLATION - POLE MOUNTED	EACH	2		2	
X8710020	FIBER OPTIC CABLE IN CONDUIT, NO. 62.5/125, MM12F SM12F	FOOT	1866		1866	
X8730027	ELECTRIC CABLE IN CONDUIT, GROUNDING, NO. 6 10	FOOT	542		542	
MOTSOULT						

| F.A.U. | SECTION | COUNTY | 3887 | 96-00159-00-CH | KANE | STA. | TO STA. TOTAL SHEET SHEETS NO. 70 4 CONTRACT NO.: 83943

FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT Y031-3D 1000 Y031-1E

SUMMARY OF QUANTITIES				1000	Y031-1F	Y031-3D NON-PARTICIPATING
CODE NO.	PAY ITEM	UNIT	TOTAL QUANTITY			
(0325737	TEMPORARY TRAFFIC SIGNAL TIMINGS	EACH	1		1	
0325737 0325706	RAILROAD, FULL-ACTUATED CONTROLLER AND TYPE IV CABINET (SPECIAL)	EACH	1		1	
0325836	RAILROAD, FULL-ACTUATED CONTROLLER AND TYPE V CABINET	EACH	1		1	
VAKA 679	CUT AND CAD EXTETTING WATER MATAL	EACH	1	1	-	
X060 679 X006923	CUT AND CAP EXISTING WATER MAIN GROUNDING EXISTING HANDHOLE FRAME AND COVER	EACH	13		13	
X006923	GROUNDING EASTING PAROLOGE FINANCE AND COVER		10			
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		REVIS	IONS	THENOTS	DEDARTMENT	OF TRANSPORTATION

SPECIALITY ITEMS
 △ Y080



ILLINOIS DEPARTMENT OF TRANSPORTATION
ILLINOIS ROUTE 31 AND WING STREET

SUMMARY OF QUANTITIES

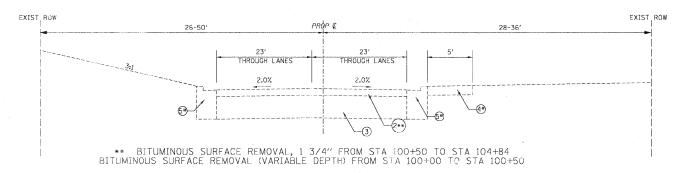
SCALE: VERT. HORIZ. NONE DATE: FEBRUARY 13, 2008

DRAWN BY: TC DESIGN BY: TC CHECKED BY: KMA

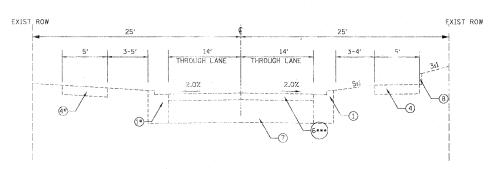
+ CORRUGATED MEDIAN STA 89+79.3 TO STA 90+20.00 ** CURB AND GUTTER TO BE REMOVED FROM STA 97+50 TO 99+46

** BITUMINOUS SURFACE REMOVAL, 1 3/4" FROM STA 89+79 TO STA 98+00 BITUMINOUS SURFACE REMOVAL (VARIABLE DEPTH) FROM STA 98+00 TO STA 100+00

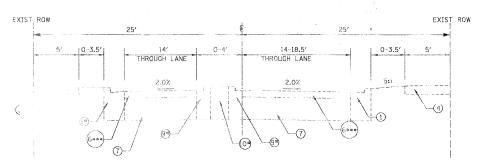
ILLINOIS ROUTE 31 EXISTING SECTION STA 89+79.3 TO STA 100+00



ILLINOIS ROUTE 31 EXISTING SECTION STA 100+00 TO STA 104+84.30



WING STREET EXISTING SECTION
STA 4+60.40 TO STA 7+53.20



WING STREET EXISTING SECTION STA 7+53.20 TO STA 9+71.45 CONTRACT NO.: 83943

SECTION COUNTY 3887 96-00159-00-CH KANE FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT

LEGEND - EXISTING

- ① COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.18
- 2 BITUMINOUS CONCRETE OVERLAY, 1 10 1/4"
- 3 PORTLAND CEMENT CONCRETE BASE, 5 1/4 10 3/4"
- 4 PORTLAND CEMENT CONCRETE SIDEWALK
- (5) COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.12
- 6 BITUMINOUS CONCRETE OVERLAY, 4 1/4 6 1/4"
- 7 PORTLAND CEMENT CONCRETE BASE, 9 1/4 8"
- (9) COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.06
- (O) CONCRETE MEDIAN
- 11 PAVING BRICK, 0 4"
- # ITEM TO BE REMOVED
- ** HOT-MIX ASPHALT SURFACE REMOVAL REMOVAL 1 3/4"
- *** HOT-MIX ASPHAL SURFACE REMOVAL REMOVAL 1 1/2"

LEGEND - PROPOSED

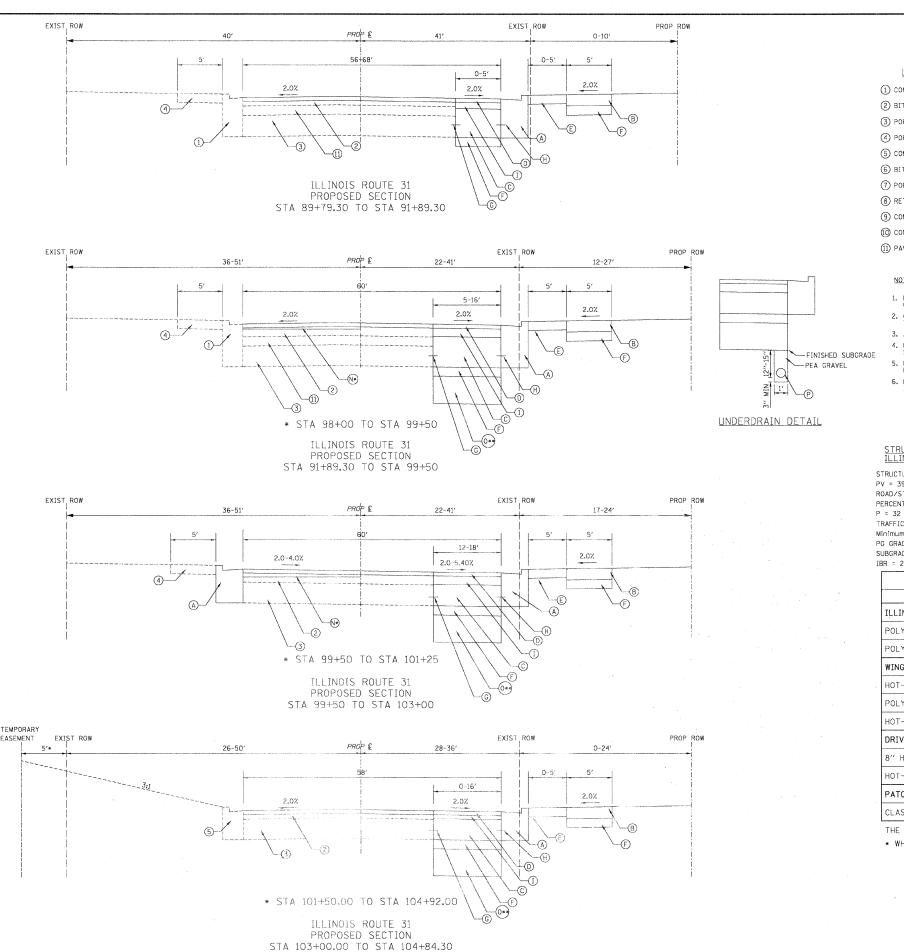
- (A) COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.24
- B PORTLAND CEMENT CONCRETE SIDEWALK, 5"
- © PORTLAND CEMENT BASE COURSE, 7 1/2"
- D POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, MIX "F", N90, 1 3/4"
- E TOPSOIL FURNISH AND PLACE, 4"
- (F) SUB-BASE GRANULAR MATERIAL, TYPE B, 4"
- (G) LONGITUDINAL CONSTRUCTION JOINT NO. 6 TIE BAR, DEFORMED, EPOXY COATED, GROUTED IN PLACE, 24" LONG AT 24" CTS. (INCLUDED IN THE COST OF THE PCC BASE COURSE)
- (INCLUDED IN THE COST OF THE CURB AND GUTTER)
- ① POLYMERIZED HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N90, 2 1/4"
- ① HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N70, 1 1/2""
- (K) CONCRETE MEDIAN, TYPE SB-6.06
- □ HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N70, 2 1/4"
- (M) COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.06, REVERSE PITCH
- N POLYMERIZED HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N90, VARIABLE DEPTH
- ① POROUS GRANULAR EMBANKMENT, SUBGRADE, 12"



ILLINOIS DEPARTMENT OF TRANSPORTATION ILLINOIS ROUTE 31 AND WING STREET

EXISTING TYPICAL SECTIONS

SCALE: VERT. HORIZ, NONE DATE: FEBRUARY 13, 2008



RTE. SECTION COUNTY 3887 96-00159-00-CH KANE STA. TO STA. FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT

LEGEND - EXISTING

- ① COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.18
- 2) BITUMINOUS CONCRETE OVERLAY, 1 10 1/4"
- 3 PORTLAND CEMENT CONCRETE BASE, 5 1/4 10 3/4"
- 4 PORTLAND CEMENT CONCRETE SIDEWALK
- (5) COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.12
- 6 BITUMINOUS CONCRETE OVERLAY, 4 1/4 ~ 6 1/4"
- 7 PORTLAND CEMENT CONCRETE BASE, 9 1/4 8"
- (8) RETAINING WALL
- (9) COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.06
- (O) CONCRETE MEDIAN
- 11) PAVING BRICK, 0 4"

- 2. CAPS, PLUGS, WYES, AND TEES ARE CONSIDERED INCLUDED IN THE COST OF THE UNDERDRAINS.
- 3. ALL END RUNS SAHLL HAVE A CAP OR PLUG.
- 4. UNDERDRAINS SHALL BE CONNECTED TO THE NEAREST DRAINAGE STRUCTURE TO CREATE POSITIVE DRAINAGE.
- 5. UNDERDRAIN MATERIAL SHALL BE PERFORATED CORRUGATED POLYETHYLENE TUBING.
- 6. EXCAVATION AND PEA GRAVEL OR EQUIVALENT SHALL BE INCLUDED IN THE COST OF THE UNDERDRAIN.

LEGEND - PROPOSED

- (A) . COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.24
- (B) PORTLAND CEMENT CONCRETE SIDEWALK, 5"
- © PORTLAND CEMENT BASE COURSE, 7 1/2"
- (D) POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, MIX "F", N90, 1 3/4"
- E TOPSOIL FURNISH AND PLACE, 4"
- F SUB-BASE GRANULAR MATERIAL, TYPE B, 4"
- (G) LONGITUDINAL CONSTRUCTION JOINT NO. 6 TIE BAR, DEFORMED, EPOXY COATED, GROUTED IN PLACE, 24" LONG AT 24" CTS. (INCLUDED IN THE COST OF THE PCC BASE COURSE)
- Delymerized Hot-Mix Asphalt Binder Course, IL-19.0, N90, 2 1/4"
- ① HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N70, 1 1/2""
- K CONCRETE MEDIAN, TYPE SB-6.06
- HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N70, 2 1/4"
- (M) . COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.06, REVERSE PITCH
- N POLYMERIZED HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N90, VARIABLE DEPTH
- O POROUS GRANULAR EMBANKMENT, SUBGRADE, 12"
- P PIPE UNDERDRAIN 4"
- THICKNESS OF CURB AND GUTTER SHALL BE EQUAL TO THICKNESS OF ASPHALT AND CONCRETE BASE COURSE.
- ** ANTICIPATED LIMITS OF POROUS GRANULAR EMBANKMENT, SUBGRADE

LOCATION	TREATMENT DEPTH	TREATMENT WIDTH		
STA 96+19 TO STA 100+19	12 INCHES	ENTIRE PAVEMENT WIDENING		
STA 102+19 TO STA 104+84	12 INCHES	ENTIRE PAVEMENT WIDENING		

STRUCTURAL PAVEMENT DESIGN FOR ILLINOIS ROUTE 31 AND WING STREET

PV = 39770 SU = 1240

ROAD/STREET CLASSIFICATION: Class 1 PERCENT OF STRUCTURAL DESIGN TRAFFIC IN DESIGN LANE:

M = 45 S = 45

TRAFFIC FACTOR: Actual TF = 4.15

AC Type = SBS/SBR PG 70-22 (IL 31) PG 64-22 (WING ST)

PG GRADE: Binder = SBS/SBR PG 70-22 (IL 31) PG 64-22/58-22 (WING ST) Surface = 1 3/4" (IL RT 31) 1 1/2" (WING ST) SUBGRADE SUPPORT RATING:

HOT-MIX ASPHALT MIXTURE F	REQUIREMENTS	
ITEM	AC TYPE	VOIDS
ILLINOIS ROUTE 31		
POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, MIX "F", N90 (IL 9.5 mm)	SBS/SBR PG 70-22	4% @ 90 GYR
POLYMERIZED HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N90	SBS/SBR PG 70-22	4% © 90 GYR
WING STREET		
HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N70 (IL 9.5 mm)	PG 64-22	4% @ 70 GYR
POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, MIX "F", N90 (IL 9.5 mm)	SBS/SBR PG 70-22	4% @ 90 GYR
HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N70	PG 64-22/58-22 *	4% @ 70 GYR
DRIVEWAYS		
8" HOT-MIX ASPHALT BASE COURSE (BINDER IL-19mm)	PG 64-22/58-22 *	4% © 50 GYR
HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N50 (BINDER IL 9.5 mm)	PG, 64-22	4% @ 50 GYR
PATCHING		
CLASS D PATCHES, TYPE I-IV, 10 INCH (BINDER IL-19 mm)	PG 64-22/58-22 *	4% @ 70 GYR

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

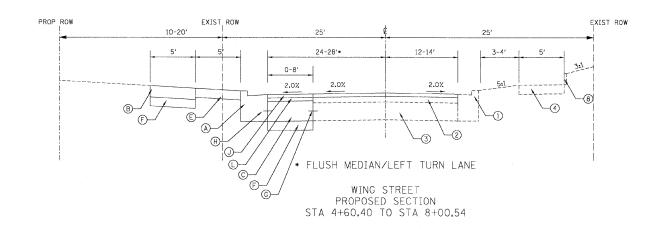
* WHEN RAP EXCEEDS 20%, THE NEW ASPHALT BINDER IN THE MIX SHALL BE PG 58-22.

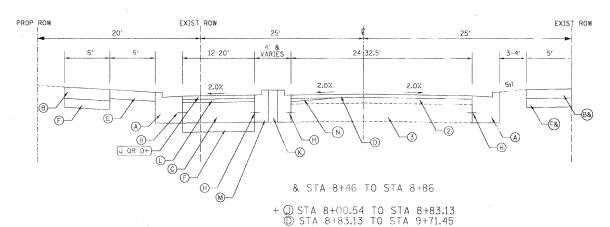


ILLINOIS DEPARTMENT OF TRANSPORTATION ILLINOIS ROUTE 31 AND WING STREET

PROPOSED TYPICAL SECTIONS

SCALE: VERT.
HORIZ. NONE
DATE: FEBRUARY 13, 2008





WING STREET .
PROPOSED SECTION
STA 8+00.54 TO STA 9+71.45

LEGEND - EXISTING

- ① COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.18
- ② BITUMINOUS CONCRETE OVERLAY, 2 3/4 4 3/4"
- 3 PORTLAND CEMENT CONCRETE BASE, 8 9 1/4"
- 4 PORTLAND CEMENT CONCRETE SIDEWALK
- 5 COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.12
- 6 BITUMINOUS CONCRETE OVERLAY, 4 1/4 6 1/4"
- 7 PORTLAND CEMENT CONCRETE BASE, 9 1/4 8"
- 8 RETAINING WALL
- 9 COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.06
- 10 CONCRETE MEDIAN
- 11) PAVING BRICK, 0 4"

LEGEND - PROPOSED

- A * COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.24
- B PORTLAND CEMENT CONCRETE SIDEWALK, 5"
- © PORTLAND CEMENT BASE COURSE, 7 1/2"
- D POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, MIX "F", N90, 1 3/4"
- E TOPSOIL FURNISH AND PLACE, 4"
- F SUB-BASE GRANULAR MATERIAL, TYPE B, 4"
- (S LONGITUDINAL CONSTRUCTION JOINT NO. 6 TIE BAR, DEFORMED, EPOXY COATED, GROUTED IN PLACE, 24" LONG AT 24" CTS. (INCLUDED IN THE COST OF THE PCC BASE COURSE)
- (INCLUDED IN THE COST OF THE CURB AND GUTTER)
- [] POLYMERIZED HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N90, 2 1/4"
- ① HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N70, 1 1/2""
- (K) CONCRETE MEDIAN, TYPE SB-6.06
- (L) HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N70, 2 1/4"
- M * COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.06, REVERSE PITCH
- N POLYMERIZED HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N90, VARIABLE DEPTH
- O POROUS GRANULAR EMBANKMENT, SUBGRADE, 12"
- PIPE UNDERDRAIN 4"

COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.24 SHALL BE USED ON THE CHANNELIZING ISLANDS.

THICKNESS OF CURB AND GUTTER SHALL BE EQUAL TO THICKNESS OF ASPHALT AND CONCRETE BASE COURSE.



REVISIONS			
NAME	DATE	ILLINOIS DE	PARTMENT
		ILLINOIS	ROUTE 31

PROPOSED TYPICAL SECTIONS

SCALE: VERT. HORIZ, NONE DATE: FEBRUARY 13, 2008

DRAWN BY: TC DESIGN BY: TC CHECKED BY: KMA

OF TRANSPORTATION AND WING STREET

F VEL GI NVI 29014NDESI GNVDGNVØZTXØ3. DG

(2) 13 / 11 / 21 (2)

	BASE COURSES					
CODE NO.	PAY ITEM	UNIT	STA. 89+79 TO STA. 103+00	STA. 103+00 TO STA. 104+84	STA. 4+60 TO STA. 8+83	TOTAL
31101200	SUB-BASE GRANULAR MATERIAL, TYPE B 4"	SQ YD	2721	102	616	3439
35300210	PORTLAND CEMENT CONCRETE BASE COURSE 7 1/2"	SQ YD	1880	0	365	2245
35501316	HOT-MIX ASPHALT BASE COURSE, 8"	SQ YD	125	38	0	163

CODE NO.	SURFACE COURSES, PAVEMENTS, REHABILITATION AN	UNIT	STA. 89+79 TO STA. 103+00	STA. 103+00 TO STA. 104+84	STA. 4+60 TO STA. 8+83	TOTAL
40600100	BITUMINOUS MATERIALS (PRIME COAT)	GALLON	946	98	164	1208
40600300	AGGREGATE (PRIME COAT)	TON	19	2	3	24
40600982	HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT	SQ YD	16	15	9	40
40603085	HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N70	TON	43	0	47	90
40603240	POLYMERIZED HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N90	TON	430	0	0	430
40603310	HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N50	TON	14	4	0	18
40603340	HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N70	TON	0	0	142	142
40603595	POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, MIX "F", N90	TON	947	95	0	1042
42001300	PROTECTIVE COAT	SQ YD	12	0	67	79
42300200	PORTLAND CEMENT CONCRETE DRIVEWAY PAVEMENT, 6 INCH	SQ YD	. 0	0	11	11
42300400	PORTLAND CEMENT CONCRETE DRIVEWAY PAVEMENT, 8 INCH	SQ YD	12	0	56	68
42400200	PORTLAND CEMENT CONCRETE SIDEWALK 5 INCH	SQ FT	7570	919	2264	10753
42400800	DETECTABLE WARNINGS	SQ FT	30	0	6	36
44000100	PAVEMENT REMOVAL	SQ YD	131	0	57	188
44000155	HOT-MIX ASPHALT SURFACE REMOVAL, 1 1/2"	SQ YD	0	0	1279	1279
44000156	HOT-MIX ASPHALT SURFACE REMOVAL, 1 3/4"	SQ YD	6245	945	0	7190
44000198	HOT-MIX ASPHALT SURFACE REMOVAL, VARIABLE DEPTH	SQ YD	1254	0	0	1254
44000200	DRIVEWAY PAVEMENT REMOVAL	SQ YD	787	41	132	960
44000300	CURB REMOVAL	FOOT	79	0	45	124
44000500	COMBINATION CURB AND GUTTER REMOVAL	FOOT	1818	370	543	2731
44000600	SIDEWALK REMOVAL	SQ FT	7329	829	2360	10518
44000705	BARRIER MEDIAN REMOVAL	SQ FT	531	0	308	839
44201761	CLASS D PATCHES, TYPE I, 10 INCH	SQ YD	0	0	4	4
44201765	CLASS D PATCHES, TYPE II, 10 INCH	SQ YD	24	0	12	36
44201769	CLASS D PATCHES, TYPE III, 10 INCH	SQ YD	49	0	0	49
44201771	CLASS D PATCHES, TYPE IV, 10 INCH	SQ YD	278 .	180	0	458

CODE NO.	PAY ITEM	UNIT	STA. 89+79 TO STA. 103+00	STA, 103+00 TO STA, 104+84	STA. 4+60 TO STA. 8+83	TOTAL
50104600	CONCRETE RETAINING WALL REMOVAL	FOOT	60	0	0	60
55019500	STORM SEWERS, TYPE 1, REINFORCED CONCRETE CULVERT, STORM DRAIN, AND SEWER PIPE, CLASS IV 12"	FOOT	282	0	56	338
55019600	STORM SEWERS, TYPE 1, REINFORCED CONCRETE CULVERT, STORM DRAIN, AND SEWER PIPE, CLASS IV 15"	FOOT	42	0	34	76
55019800	STORM SEWERS, TYPE 1, REINFORCED CONCRETE CULVERT, STORM DRAIN, AND SEWER PIPE, CLASS IV 21"	FOOT	0	196	0	196
55021600	STORM SEWERS, TYPE 2, REINFORCED CONCRETE CULVERT, STORM DRAIN, AND SEWER PIPE, CLASS III 12"	FOOT	331	0	0	331
55021800	STORM SEWERS, TYPE 2, REINFORCED CONCRETE CULVERT, STORM DRAIN, AND SEWER PIPE, CLASS III 18"	FOOT	219	0	0	219
55100100	STORM SEWER REMOVAL 4"	FOOT	0	0	6	6
55100400	STORM SEWER REMOVAL 10"	FOOT	18	0	0	18
55100500	STORM SEWER REMOVAL 12"	FOOT	6	0	0	6
55100700	STORM SEWER REMOVAL 15"	FOOT	260	0	39	299
55100900	STORM SEWER REMOVAL 18"	FOOT	0	196	0	196
56103300	DUCTILE IRON WATER MAIN 12"	FOOT	10	0	0	10
56400100	FIRE HYDRANTS TO BE MOVED	EACH	1	0	0	1

SCHEDULE OF QUANTITIES FOR ELECTRICAL ITEMS ARE SHOWN IN THE TRAFFIC PLANS.

CODE NO.	INCIDENTAL CONSTRUCTION PAY ITEM	UNIT	STA. 89+79 TO STA. 103+00	STA. 103+00 TO STA. 104+84	STA. 4+60 TO STA. 8+83	TOTAL
60107600	PIPE UNDERDRAINS 4"	FOOT	484	184	0	668
60201110	CATCH BASINS, TYPE A, 4'-DIAMETER, TYPE 11V FRAME AND GRATE	EACH	1	0	1	2
60201340	CATCH BASINS, TYPE A, 4'-DIAMETER, TYPE 24 FRAME AND GRATE	EACH	4	0	3	7
60221100	MANHOLES, TYPE A, 5'-DIAMETER, TYPE 1 FRAME, CLOSED LID	EACH	3	1	0	4
60237470	INLETS, TYPE A, TYPE 24 FRAME AND GRATE	EACH	5	0	2	7
60250500	CATCH BASINS TO BE ADJUSTED WITH NEW TYPE 1 FRAME, CLOSED LID	EACH	0	0	2	2
60251740	CATCH BASINS TO BE ADJUSTED WITH NEW TYPE 24 FRAME AND GRATE	EACH	1	4	0	5
60256940	MANHOLES TO BE ADJUSTED WITH NEW TYPE 24 FRAME AND GRATE	EACH	1	0	0	1
60260100	INLETS TO BE ADJUSTED	EACH	1	0	0	1
60266500	VALVE VAULTS TO BE REMOVED	EACH	1	0	0	1
60300350	MANHOLE FRAMES TO BE ADJUSTED	EACH	5	0	1	6
60300405	VALVE BOX FRAMES TO BE ADJUSTED	EACH	4	0	0	4
60500040	REMOVING MANHOLES	EACH	3	1	0	4
60500050	REMOVING CATCH BASINS	EACH	6	0	3	9
60500060	REMOVING INLETS	EACH	1	0	0	1
60600605	CONCRETE CURB. TYPE B	FOOT	129	31	85	245
60603800	COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.12	FOOT	25	0	33	58
60605000	COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.24	FOOT	1897	370	499	2766
60618300	CONCRETE MEDIAN SURFACE, 4 INCH	SQ FT	534	0	0	534
60619200	CONCRETE MEDIAN. TYPE SB-6.06	SQ FT	331	0	234	565
63200310	GUARDRAIL REMOVAL	FOOT	16	0	0	16
66900200	NON-SPECIAL WASTE DISPOSAL	CU YD				1194
66900450	SPECIAL WASTE PLANS AND REPORT	L SUM				1
66900530	SOIL DISPOSAL ANALYSIS	EACH				6
67000400	ENGINEER'S FIELD OFFICE, TYPE A	CAL MO				7
67100100	MOBILIZATION	L SUM				1
Z0076600	TRAINEES	HOUR				500
XX005656	INLET FILTER CLEANING	EACH	91	28	49	168
X0322923	SEGMENTAL CONCRETE BLOCK WALL	SQ FT	133	0	0	133
X0323463	BILLBOARD REMOVAL	EACH	1	0	0	1
X0323800	FENCE REMOVAL SPECIAL	L SUM	0	0	0	1
X4021000	TEMPORARY ACCESS (PRIVATE ENTRANCE)	EACH	0	0	1	1
X4022000	TEMPORARY ACCESS (COMMERCIAL ENTRANCE)	EACH	3	2	2	7
X7240205	REMOVE SIGN COMPLETE	EACH	2	0	0	2
	REMOVE WATER STRUCTURE	FACH	1	0	0	1

	SIGNING AND PAVEMENT MARKING					
CODE NO.	PAY ITEM	UNIT	STA. 89+79 TO STA. 103+00	STA. 103+00 TO STA. 104+84	STA. 4+60 TO STA. 8+83	TOTAL
70101700	TRAFFIC CONTROL AND PROTECTION	L SUM				1
70102625	TRAFFIC CONTROL AND PROTECTION, STANDARD 701606	L SUM				1
70102640	TRAFFIC CONTROL AND PROTECTION, STANDARD 701801	L SUM				1
70102550	TRAFFIC CONTROL AND PROTECTION FOR TEMPORARY DETOUR	L SUM				1
70300610	TEMPORARY PAINT PAVEMENT MARKING, LETTERS AND SYMBOLS	SQ FT	109	0	61	170
70300725	TEMPORARY PAINT PAVEMENT MARKING 4" WHITE	FOOT	3031	804	400	4235
70300735	TEMPORARY PAINT PAVEMENT MARKING 6" WHITE	FOOT	742	0	90	832
70300760	TEMPORARY PAINT PAVEMENT MARKING 24" WHITE	FOOT	100	0	36	136
70300825	TEMPORARY PAINT PAVEMENT MARKING 4" YELLOW	FOOT	7866	1036	800	9702
70300845	TEMPORARY PAINT PAVEMENT MARKING 12" YELLOW	FOOT	226	0	0	226
70301000	WORK ZONE PAVEMENT MARKING REMOVAL	SQ FT	4538	613	578	5729
72400500	RELOCATE SIGN PANEL ASSEMBLY - TYPE A	EACH	5	0	7	12
78000100	THERMOPLASTIC PAVEMENT MARKING - LETTERS AND SYMBOLS	SQ FT	268	0	195	463
78000200	THERMOPLASTIC PAVEMENT MARKING - LINE 4"	FOOT	5144	468	1343	6955
78000400	THERMOPLASTIC PAVEMENT MARKING - LINE 6"	FOOT	1250	0	301	1551
78000600	THERMOPLASTIC PAVEMENT MARKING - LINE 12"	FOOT	324	0	18	342
78000650	THERMOPLASTIC PAVEMENT MARKING - LINE 24"	FOOT	126	0	24	150
78100100	RAISED REFLECTIVE PAVEMENT MARKER	EACH	125	16	16	157
78300200	RAISED REFLECTIVE PAVEMENT MARKER REMOVAL	EACH	112	18	16	146
X0322256	TEMPORARY INFORMATION SIGNING	SQ FT	51	64	89	204
X0322662	TEMPORARY SIGNING	EACH	2	0	5	7
X7015005	CHANGEABLE MESSAGE SIGN	CAL DA				17

	EARTHWO	RK SCHEDULE						
	LOCATION	EARTH EXCAVATION (CY)	EARTH EXCAVATION ADJUSTED FOR SHRINKAGE (CY)	EMBANKMENT (CY)	EARTHWORK BALANCE WASTE (+) OR SHORTAGE (-) (CY)	UNSUITABLE MATERIAL (CY)	APPROXIMATE UNSUITABLE MATERIAL DUE TO UNDERCUTS (CY)	TOPSOIL FURNISH AND PLACE (SQ YD)
	STA 89+79 TO STA 103+00 AND STA 8+91 TO STA 9+38	1025	871	243	628	223	234	1111
.	STA 103+00 TO STA 104+84	25	21	0	21	6	0	192
	STA 4+50 TO STA 8+50	209	178	19	158	57	0	208
	TOTAL	1259	1070	262	808	286	234	1511

SHRINKAGE FACTOR: EARTH EXCAVATION: 15%

LOCATION	TOTAL UNSUITABLE MATERIAL (CY)
STA 89+79 TO STA 103+00 AND STA 8+91 TO STA 9+38	457
STA 103+00 TO STA 104+84	6
STA 4+50 TO STA 8+50	57
TOTAL	520

RHAA	
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ILLINOIS DEPARTMENT OF TRANSPORTATION ILLINOIS ROUTE 31 AND WING STREET

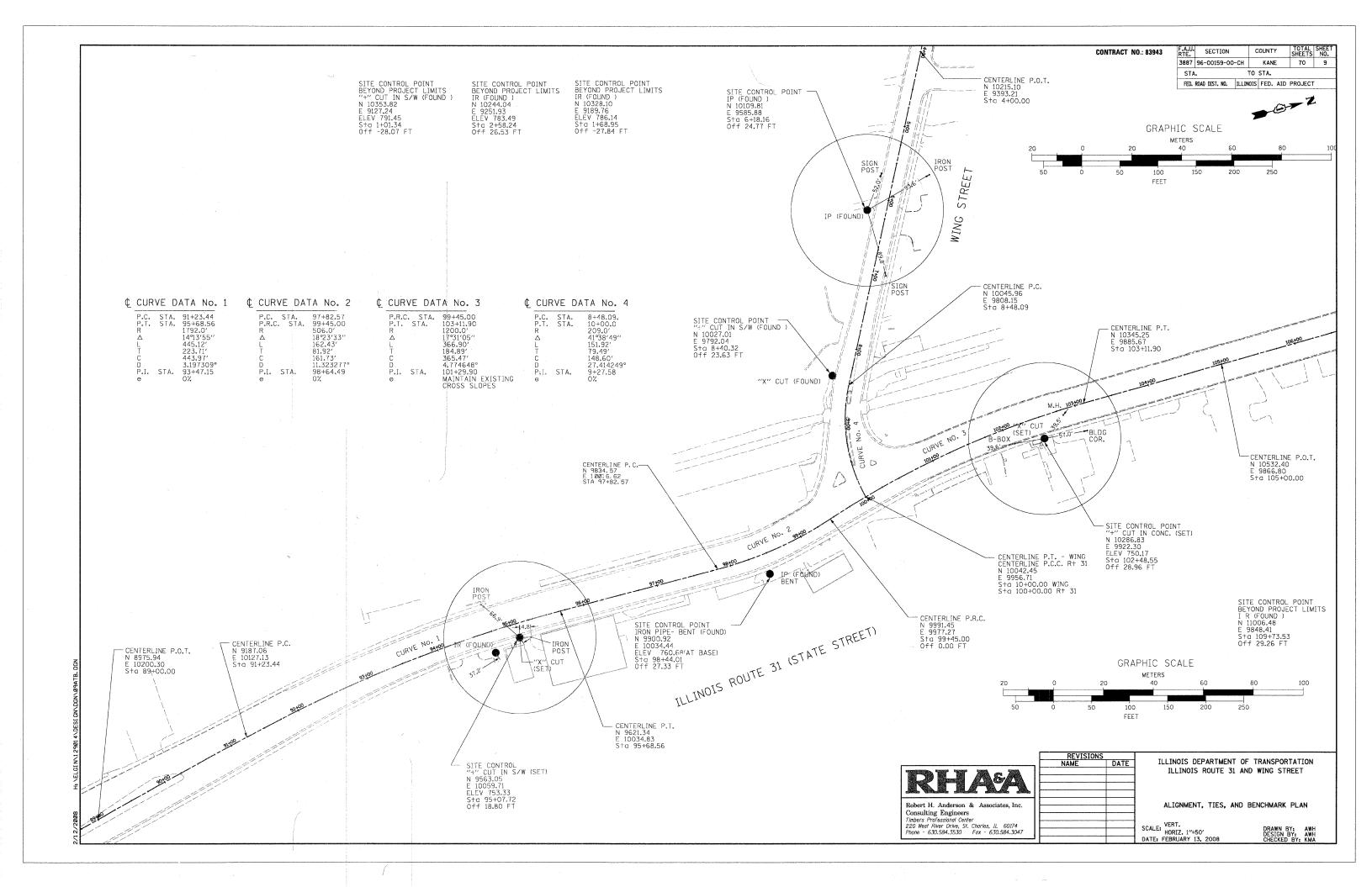
SCHEDULE OF QUANTITIES

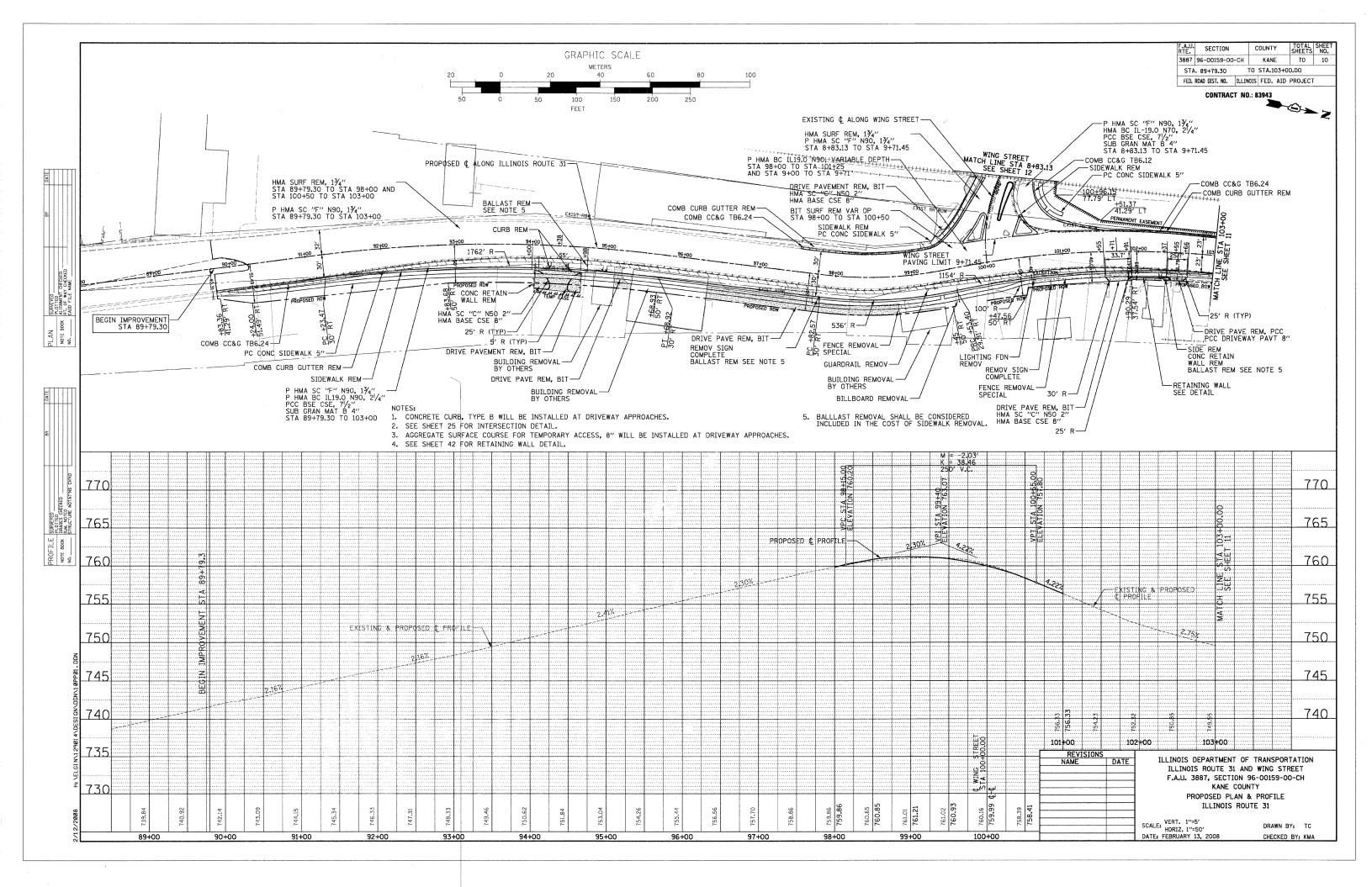
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HORIZ. NONE
DATE: FEBRUARY 13, 2008

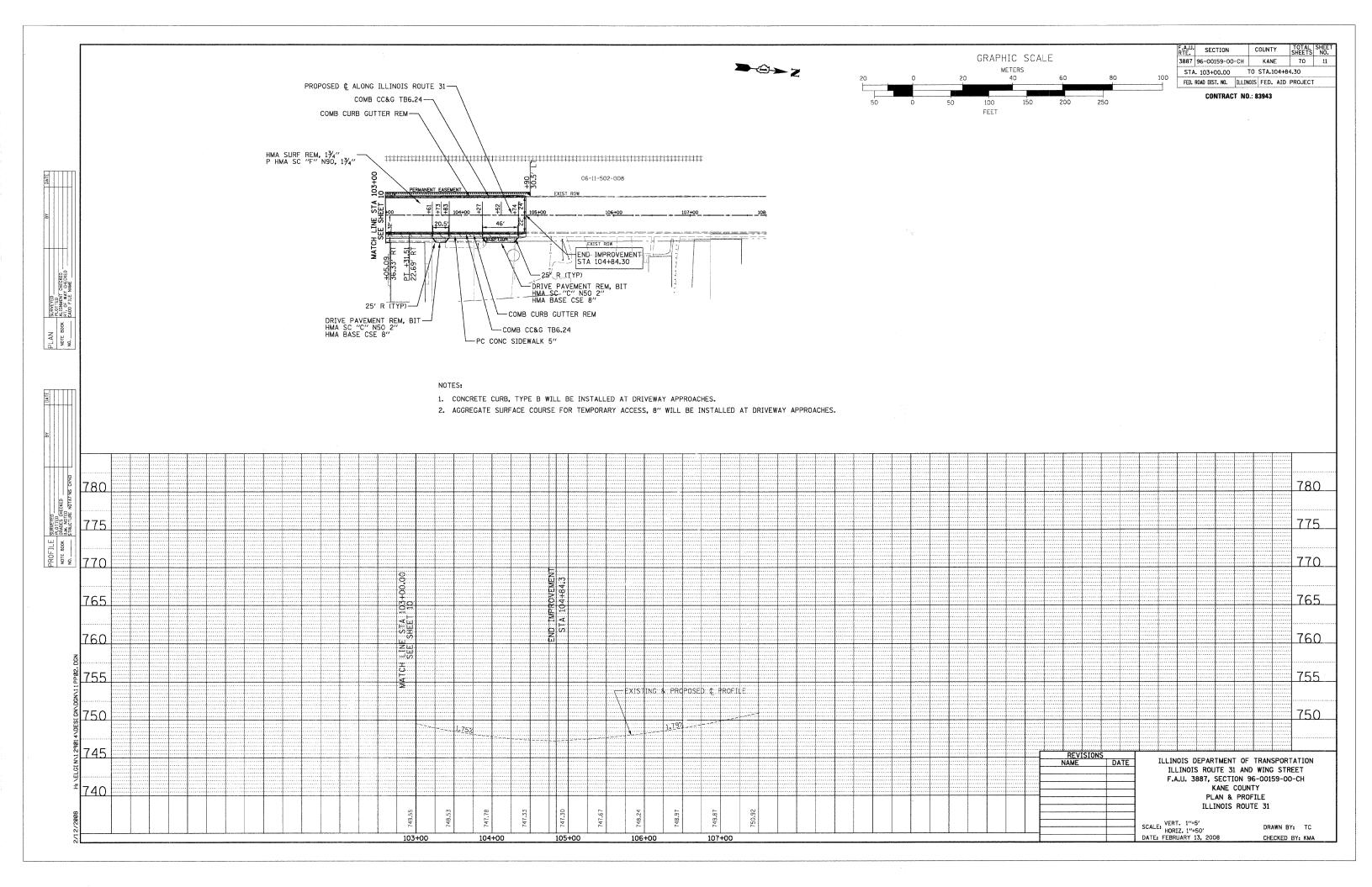
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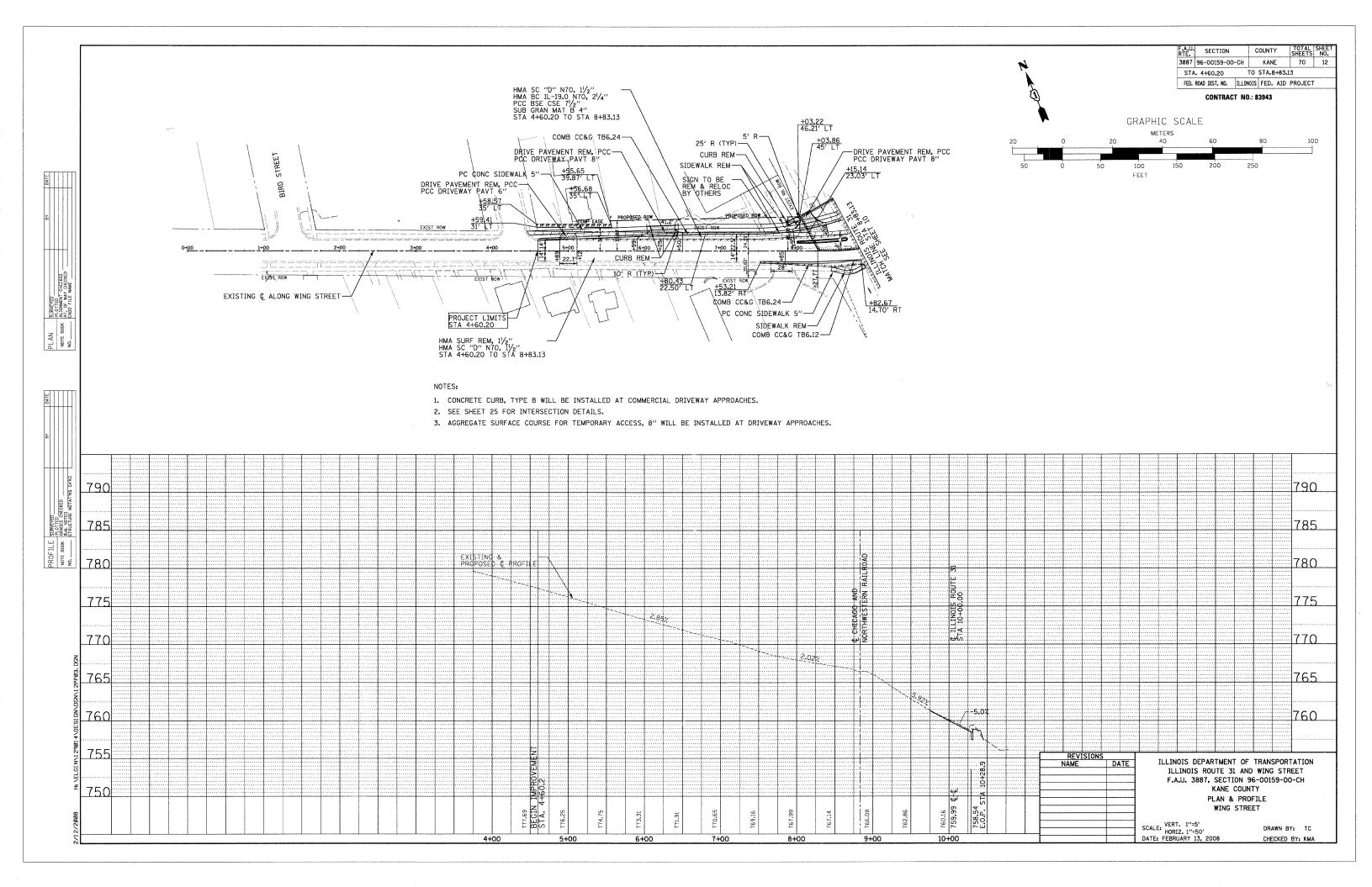
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NOTE: TRAFFIC CONTROL FOR STAGES 1-3, AND DURING THEIR CORRESPONDING SUBSTAGES, WILL BE PAID AS A LUMP SUM, "TRAFFIC CONTROL AND PROTECTION".

STAGE 1: TRAFFIC ON IL ROUTE 31 WILL BE REDUCED FROM FOUR LANES TO TWO LANES TO ALLOW THE REMOVAL AND REPLACEMENT OF THE STORM SEWER FROM STA 100+65 TO STA 104+79. TRAFFIC WILL BE SHIFTED TO THE CURB LANES.

STAGE 2: THE FOUR LANES OF TRAFFIC ON IL ROUTE 31 WILL BE SHIFTED APPROXIMATELY 2-4' WEST TO ALLOW THE WIDENING ON THE EAST SIDE OF IL ROUTE 31.

STAGE 3: SOUTHBOUND TRAFFIC ON IL ROUTE 31 FROM THE WING STREET INTERSECTION TO STA 104+84 WILL BE SHIFTED 2-3' EAST TO ALLOW THE WIDENING OF THE INTERSECTION. IN ADDITION, THE TRAFFIC ON WING STREET WILL BE SHIFTED APPROXIMATELY 5' SOUTH TO ALLOW THE WIDENING OF THE NORTH SIDE OF WING STREET.

STAGE 4: THE SURFACE COURSE FOR BOTH ROADS WILL BE PLACED AFTER THE WIDENING IS COMPLETED. MAINTAINING TRAFFIC AT ALL LOCATIONS DURING THIS PHASE SHALL BE CONSIDERED INCIDENTAL TO THE COST OF "TRAFFIC CONTROL AND PROTECTION, STANDARD 701606".

SCHEDULE OF TEMPORARY SIGNING

SIGN	CODE AND SIZE	STATION	OFFSET	DIRECTION	QUANTITY
DO NOT		9+08	L	WB	2
STOP ON	R8-8 24" X 30"	8+57	L	EB	1
TRACKS		8+57	R	EB	1
STOP HERE ON	ON BIO C	8+57	L	EB	1
RED		8+57	R	EB	1
NO TURN ON RED	R10-11a 24" X 30"	8+57	R	EB ^{°.}	1

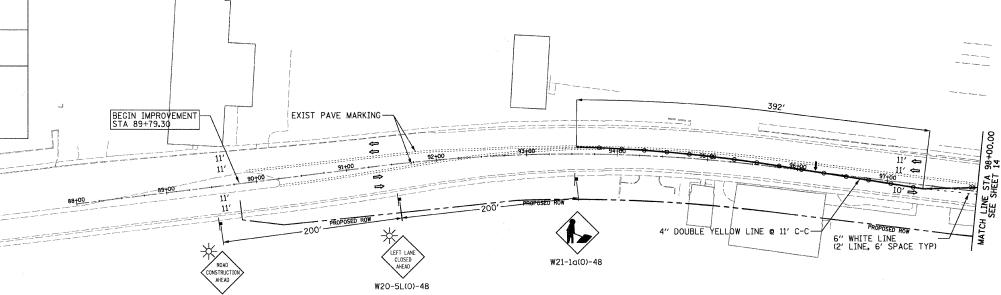
ALL TEMPORARY SIGNS WILL BE IN ACCORDANCE WITH ARTICLE 701.14 AND 701.15.
ALL LABOR, EQUIPMENT, TOOLS AND INCIDENTALS NECESSARY TO
INSTALL TEMPORARY SIGNS WILL BE INCLUDED IN THE UNIT PRICE FOR
TEMPORARY SIGNS. TEMPORARY SIGN INSTALLATION WILL BE
BE MEASURED ONCE. ANY RELOCATING OF TEMPORARY SIGNS DUE
TO CONTRACTOR PHASING WILL BE CONSIDERED INCIDENTAL TO
THE COST OF TRAFFIC CONTROL AND PROTECTION.

METERS 100 FEET

GRAPHIC SCALE

RTE. SECTION COUNTY 3887 96-00159-00-CH KANE 70 13 STA. 89+79.30 TO STA.98+00.00 FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT

CONTRACT NO.: 83943



SYMBOLS

TYPE I OR TYPE II BARRICADES AT 50' C-C TANGENTS, 25' C-C TAPERS (TYP)

SIGN ON PORTABLE OR PERMANENT SUPPORT

W20-1(0)-48

MONO-DIRECTIONAL FLASHING BEACON

ARROW BOARD

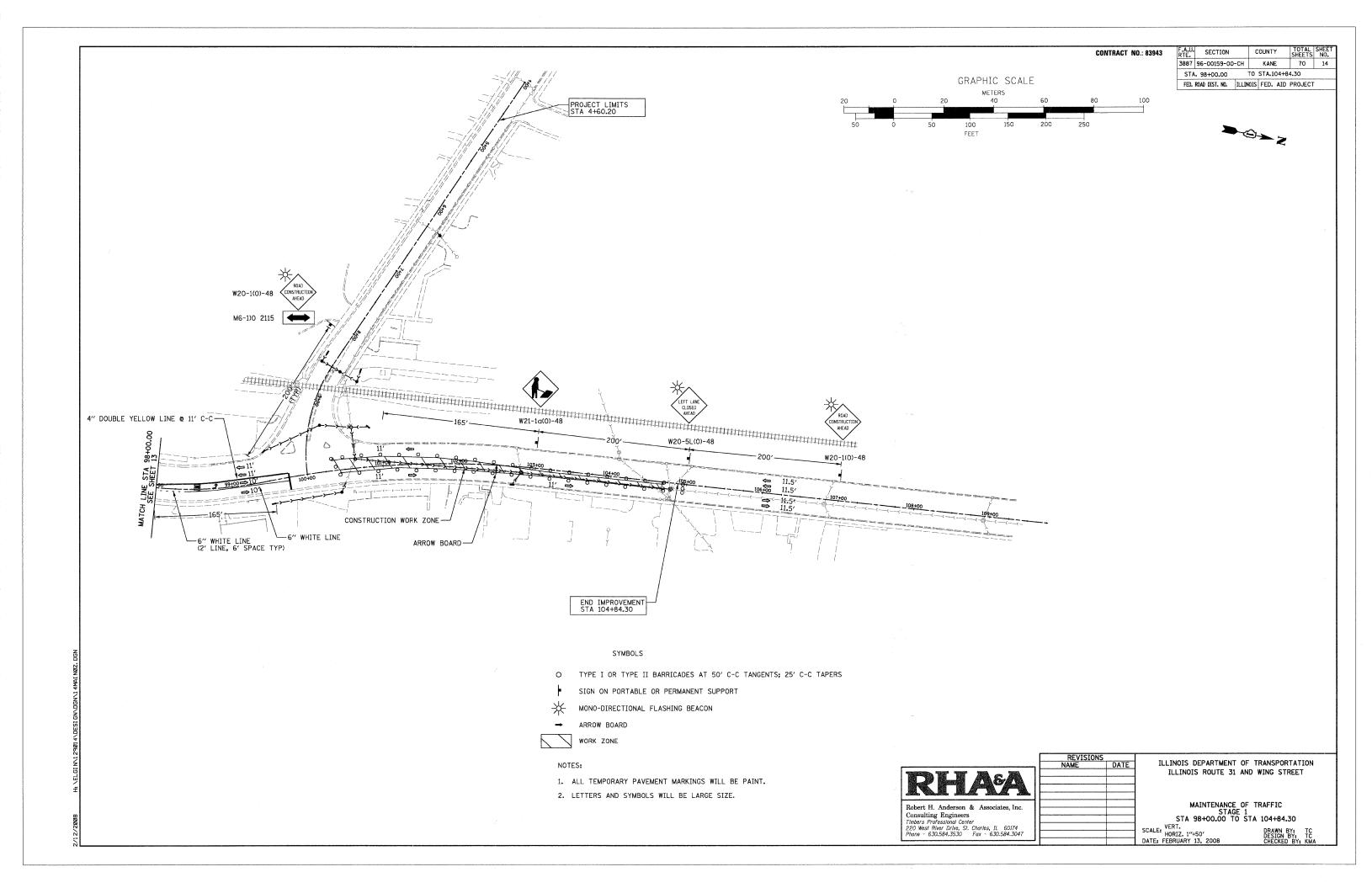
Consulting Engineers
Timbers Professional Center
220 West River Drive, St. Charles, IL 60174
Phone - 630.584.3530 Fax - 630.584.3047

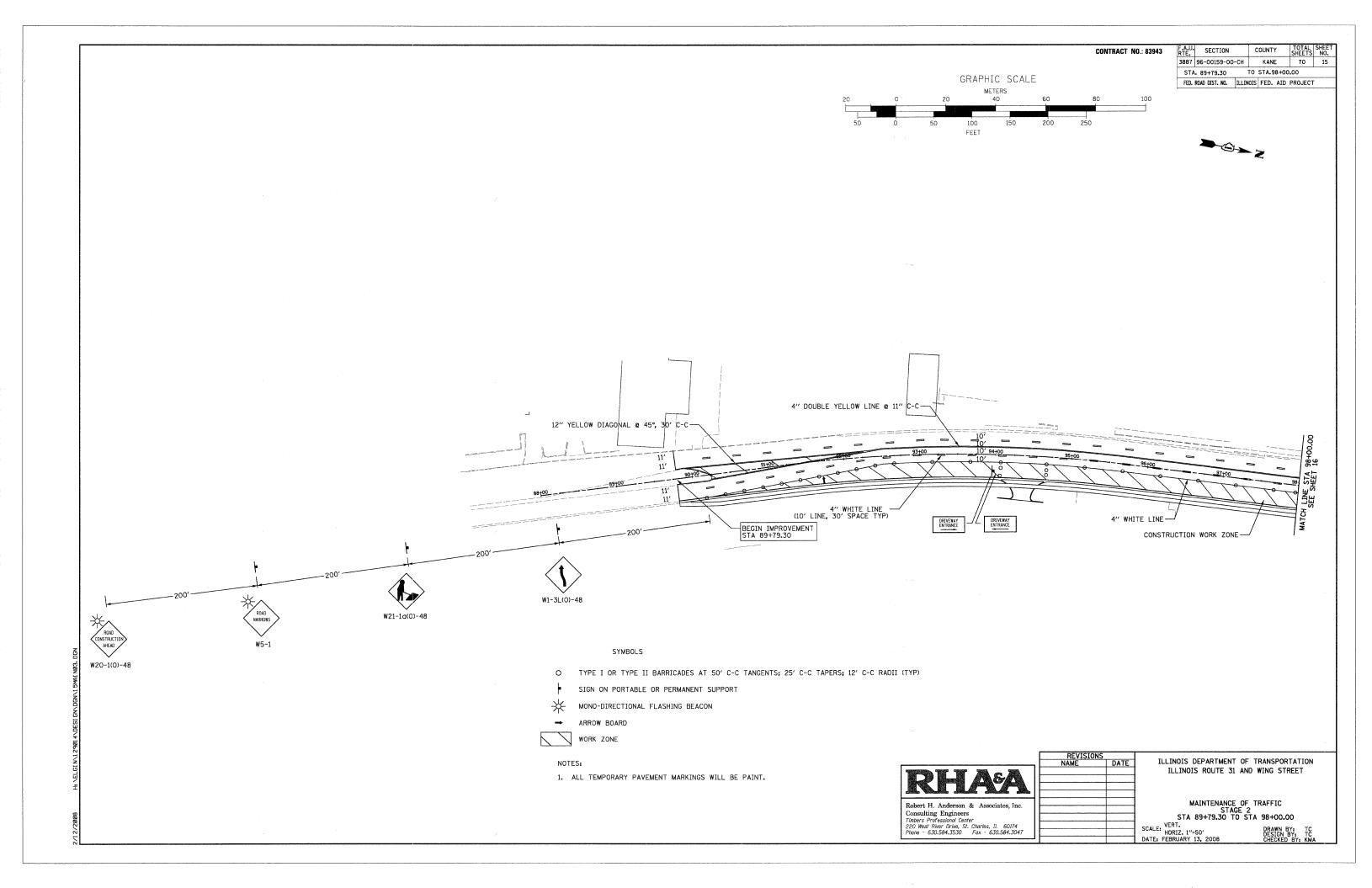
REVISIONS		
IAME	DATE	ILLINOIS DEPARTMENT OF TRANSPORTATION
		ILLINOIS ROUTE 31 AND WING STREET
	 	

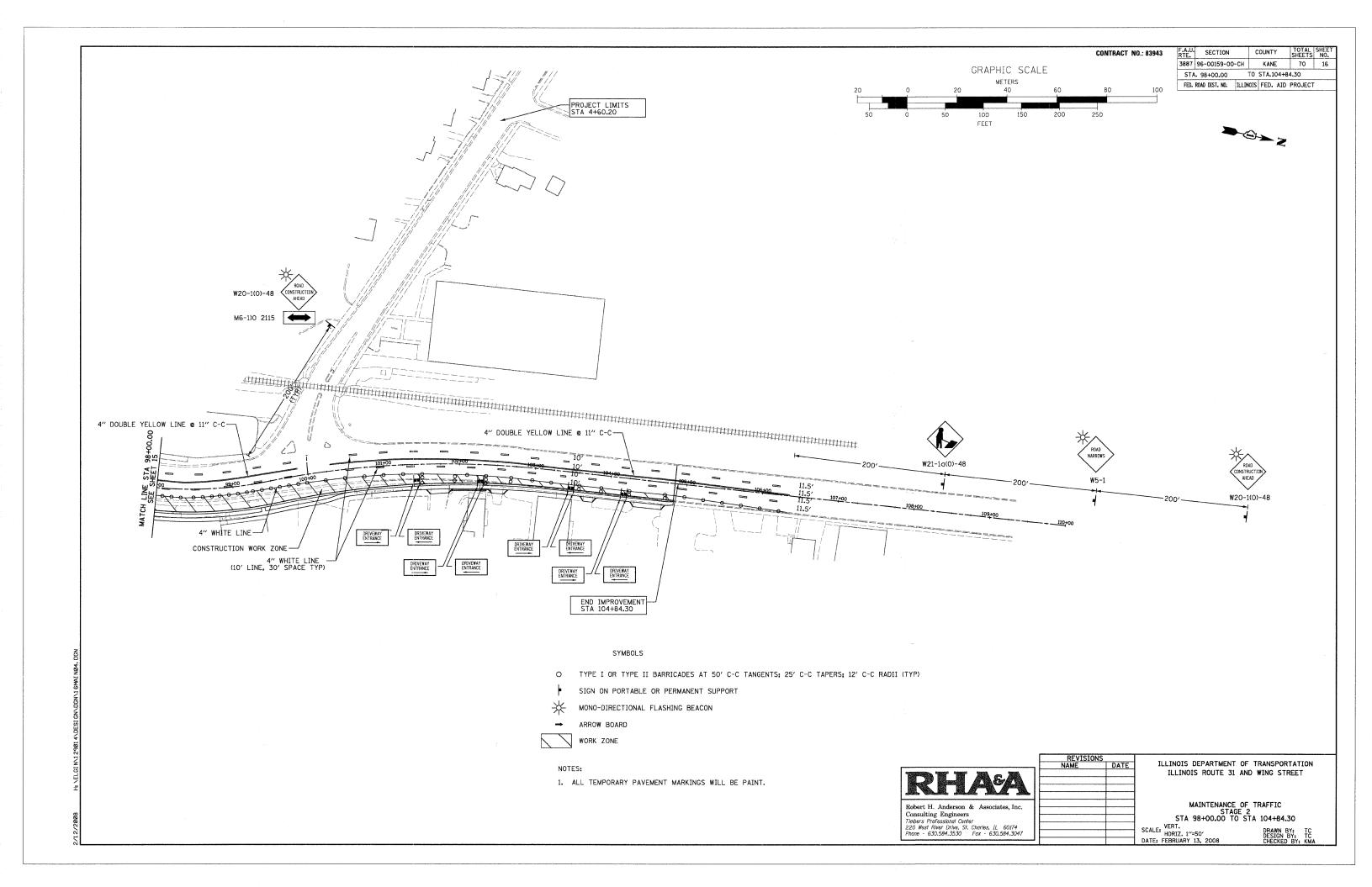
MAINTENANCE OF TRAFFIC STAGE 1 STA 89+79.30 TO STA 98+00.00

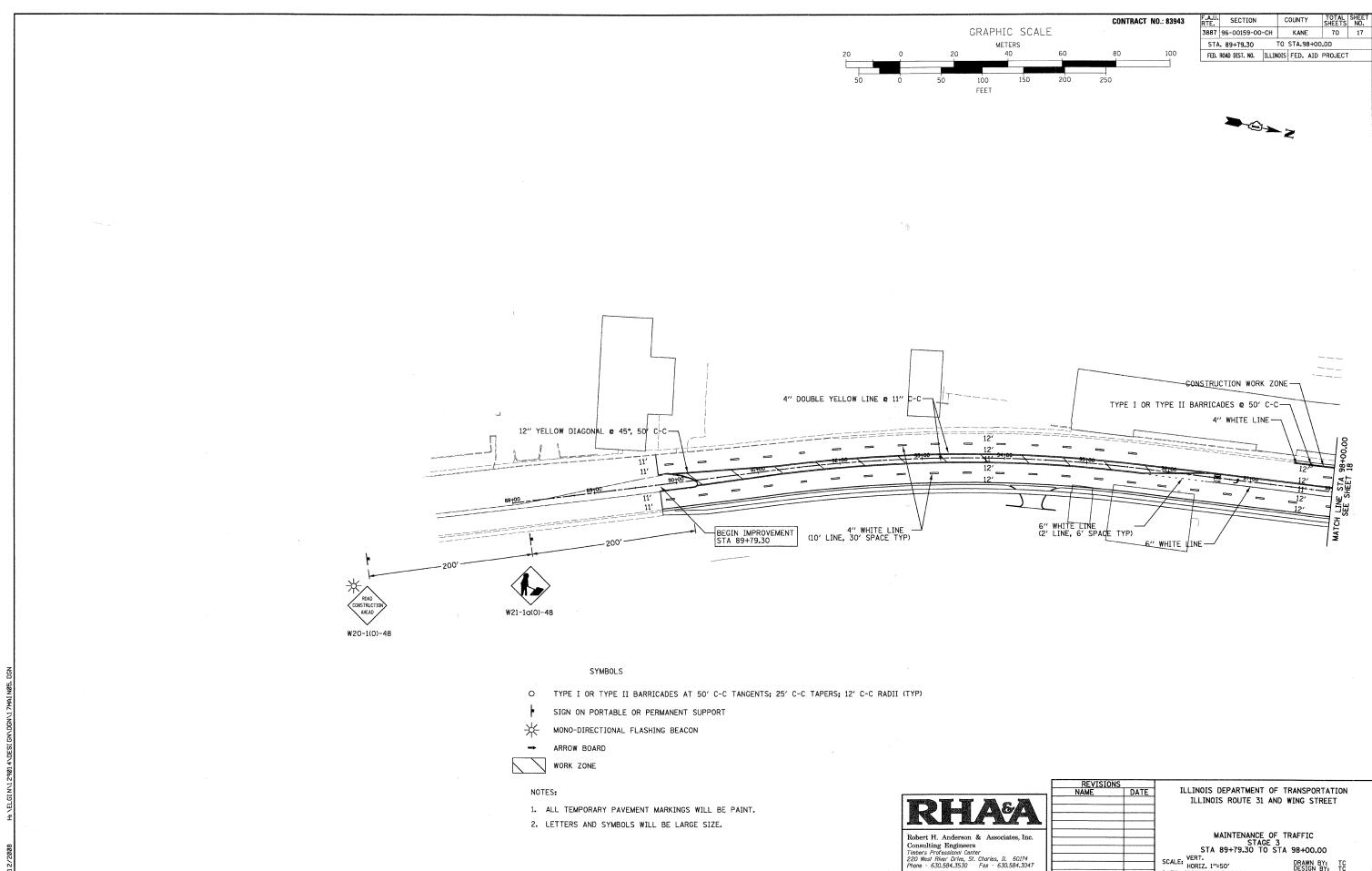
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HORIZ. 1"=50'
DATE: FEBRUARY 13, 2008

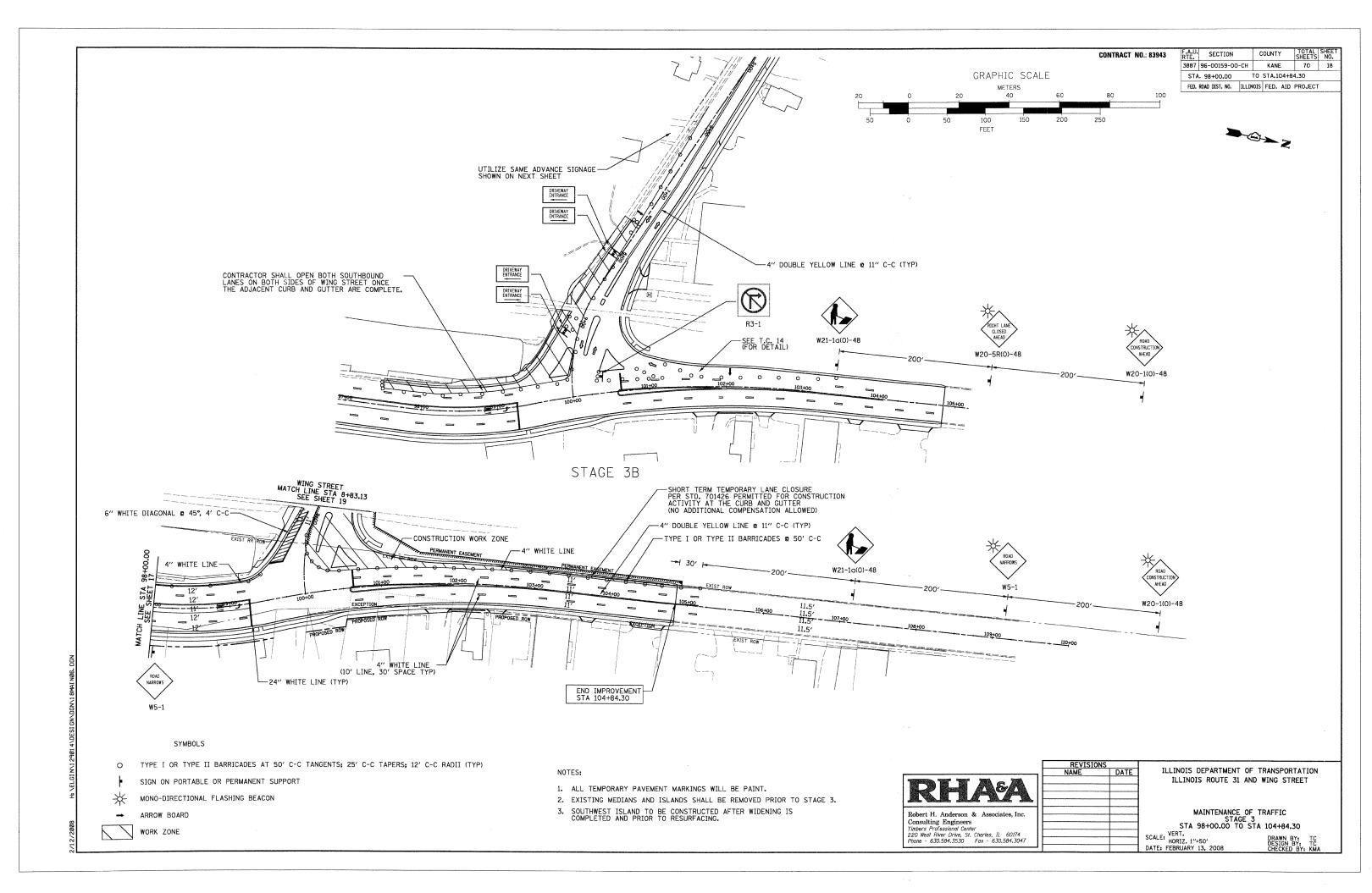
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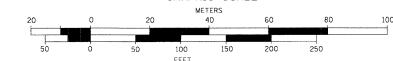




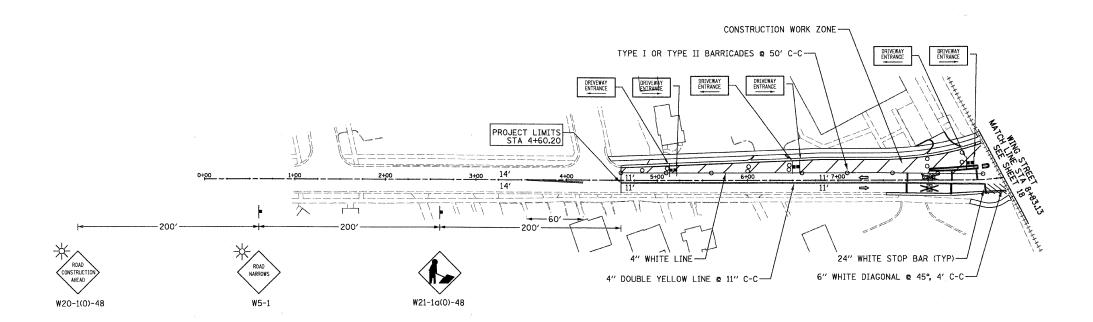


RTE. SECTION 3887 96-00159-00-CH KANE 70 19 STA. 4+60.20 TO STA.8+83.13 FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT

GRAPHIC SCALE







SYMBOLS

- TYPE I OR TYPE II BARRICADES AT 50' C-C TANGENTS; 25' C-C TAPERS; 12' C-C RADII (TYP)
- SIGN ON PORTABLE OR PERMANENT SUPPORT
- MONO-DIRECTIONAL FLASHING BEACON
- ARROW BOARD

WORK ZONE

- 1. ALL TEMPORARY PAVEMENT MARKINGS WILL BE PAINT.
- 2. EXISTING MEDIANS AND ISLANDS SHALL BE REMOVED PRIOR TO STAGE 3.
- 3. SOUTH CURBLINE AND SIDEWALK TO BE CONSTRUCTED AFTER WIDENING IS COMPLETED AND PRIOR TO RESURFACING.

RHASA
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ILLINOIS DEPARTMENT OF TRANSPORTATION ILLINOIS ROUTE 31 AND WING STREET

MAINTENANCE OF TRAFFIC STAGE 3 STA 4+60.20 TO STA 8+83.13

CONTRACT NO.: 83943 SECTION 3887 96-00159-00-CH KANE STA. 89+79.30 TO STA.98+00.00 FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT GRAPHIC SCALE METERS 40 BEGIN IMPROVEMENT STA 89+79.30

EROSION CONTROL LEGEND

PERIMETER EROSION BARRIER

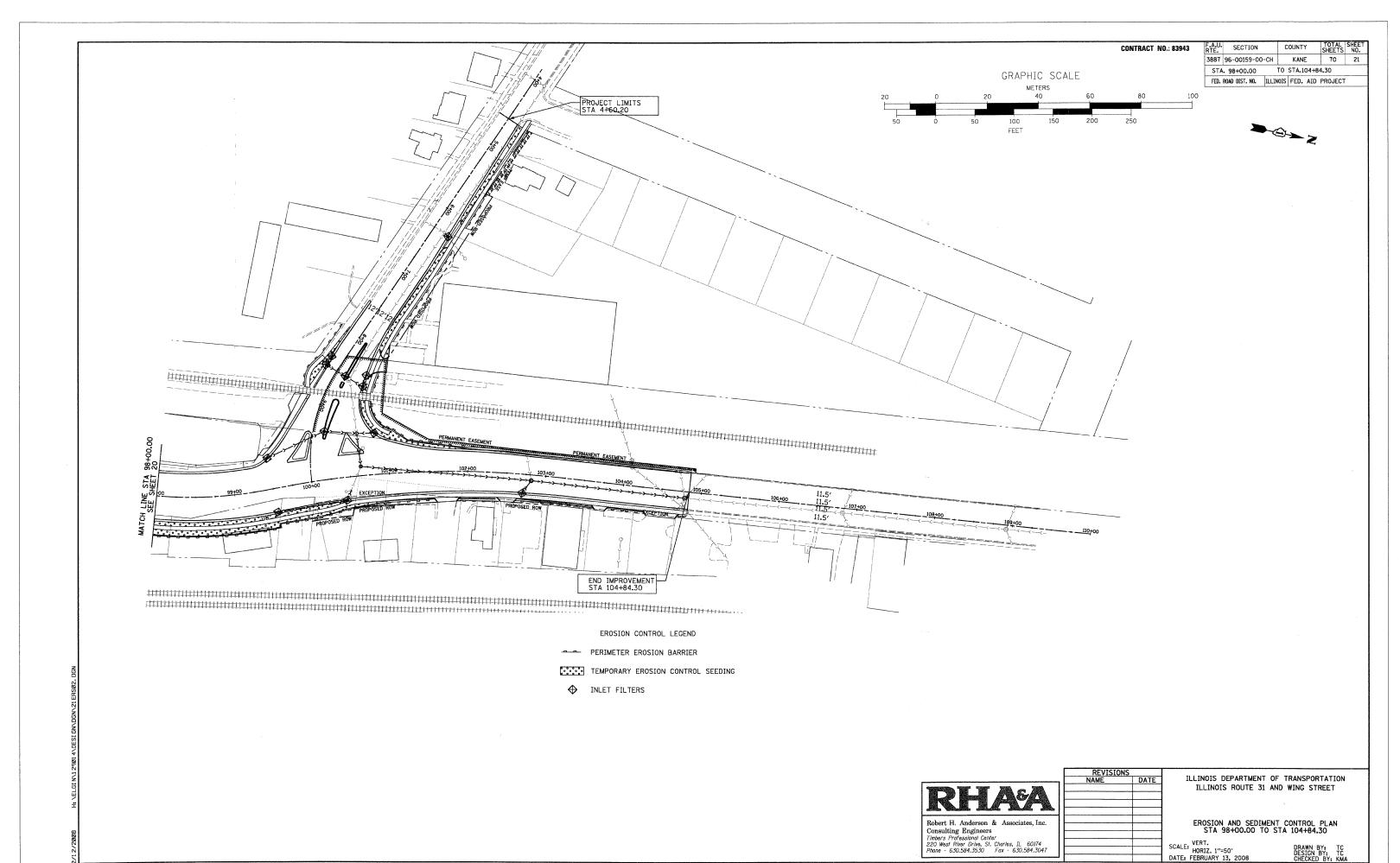
TEMPORARY EROSION CONTROL SEEDING

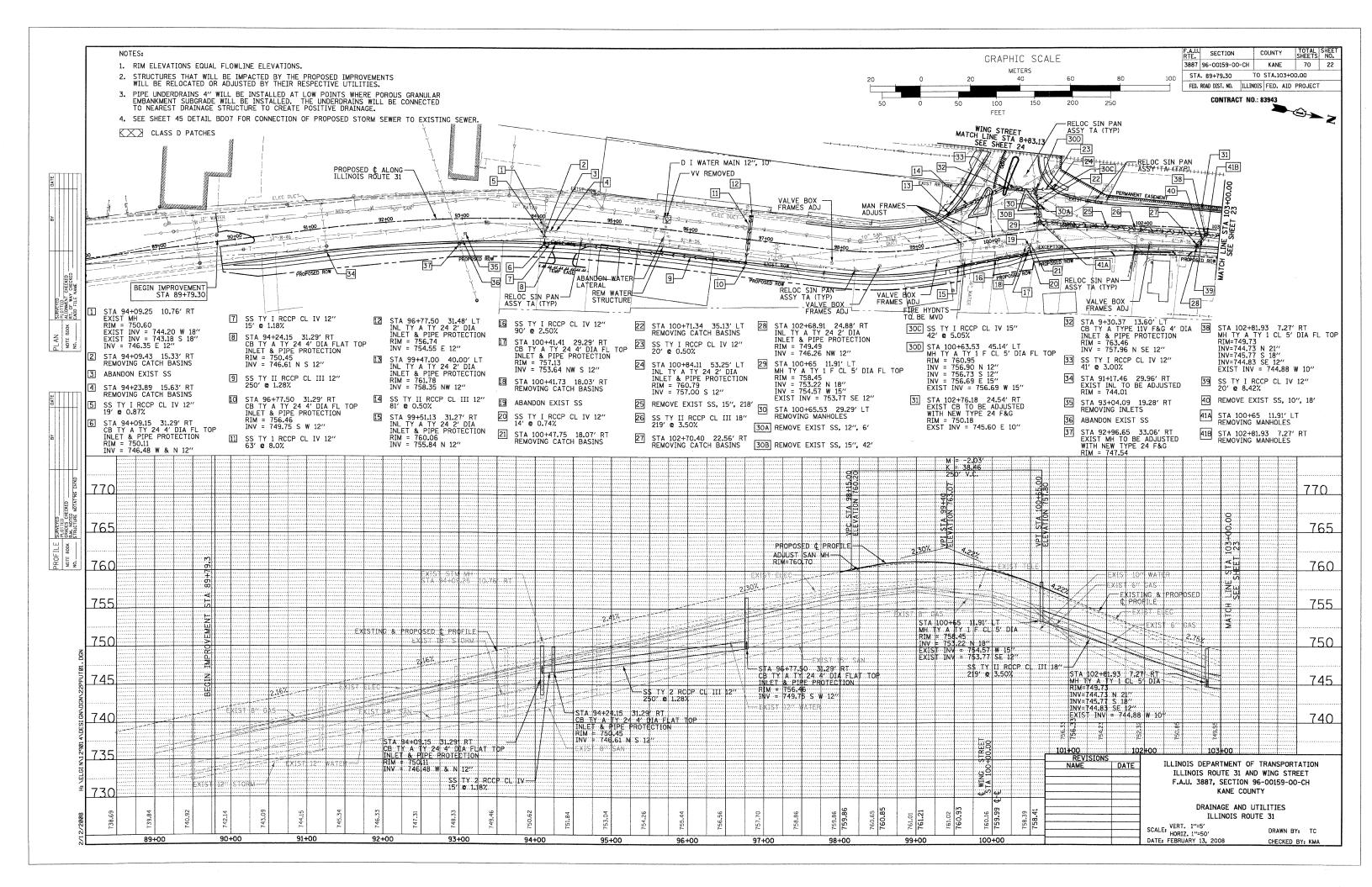
→ INLET FILTERS

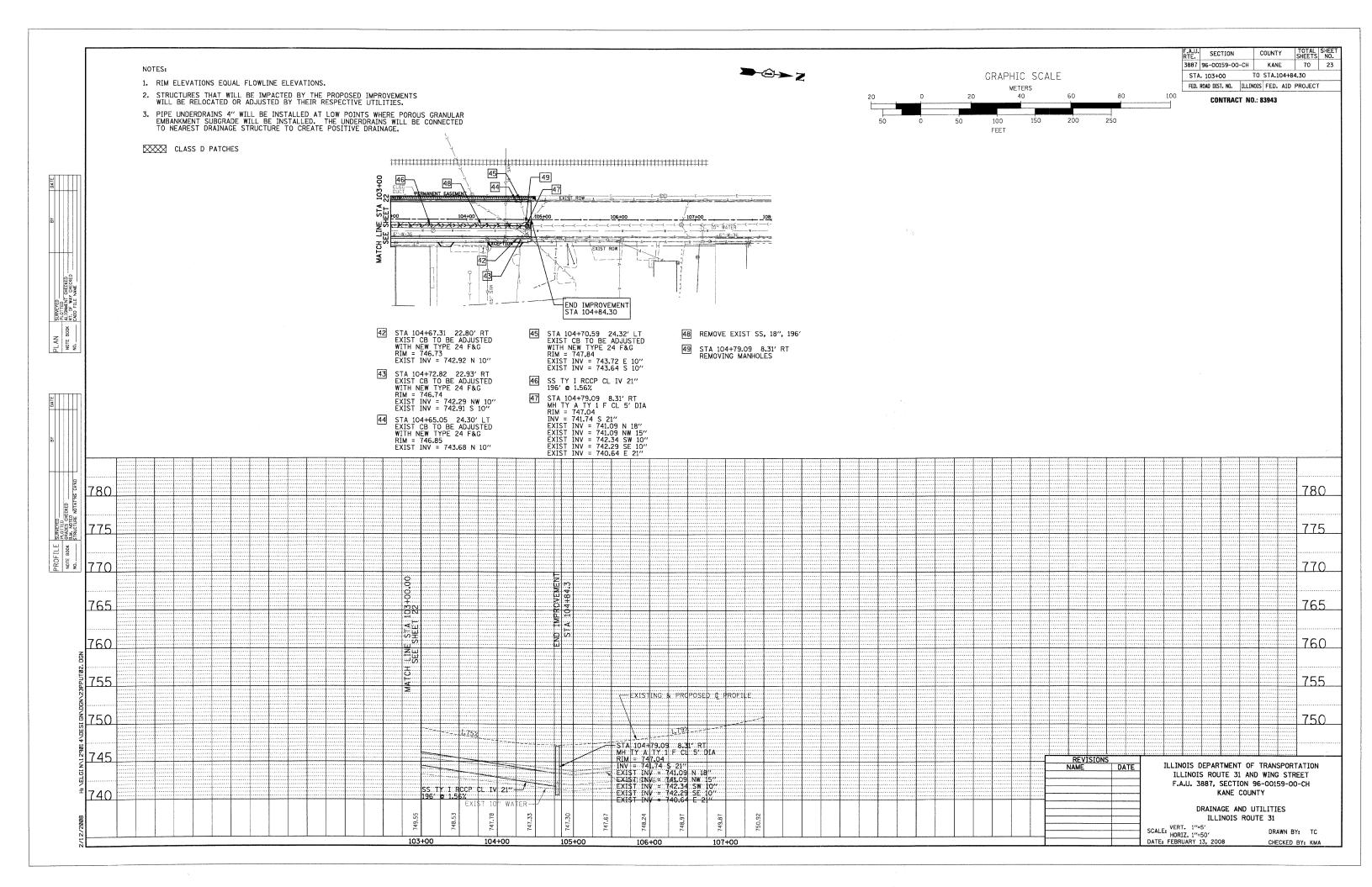
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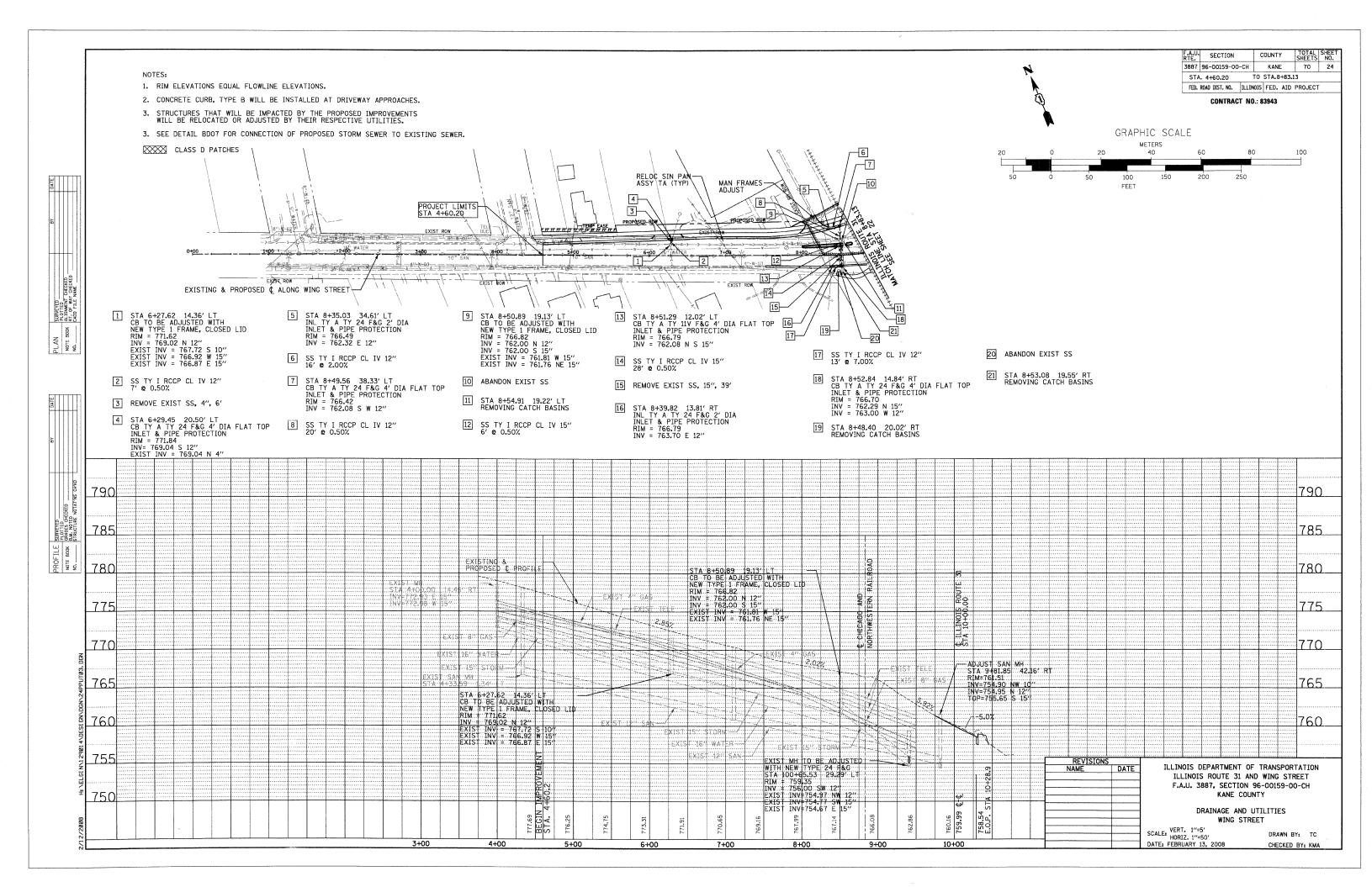
ILLINOIS DEPARTMENT OF TRANSPORTATION ILLINOIS ROUTE 31 AND WING STREET

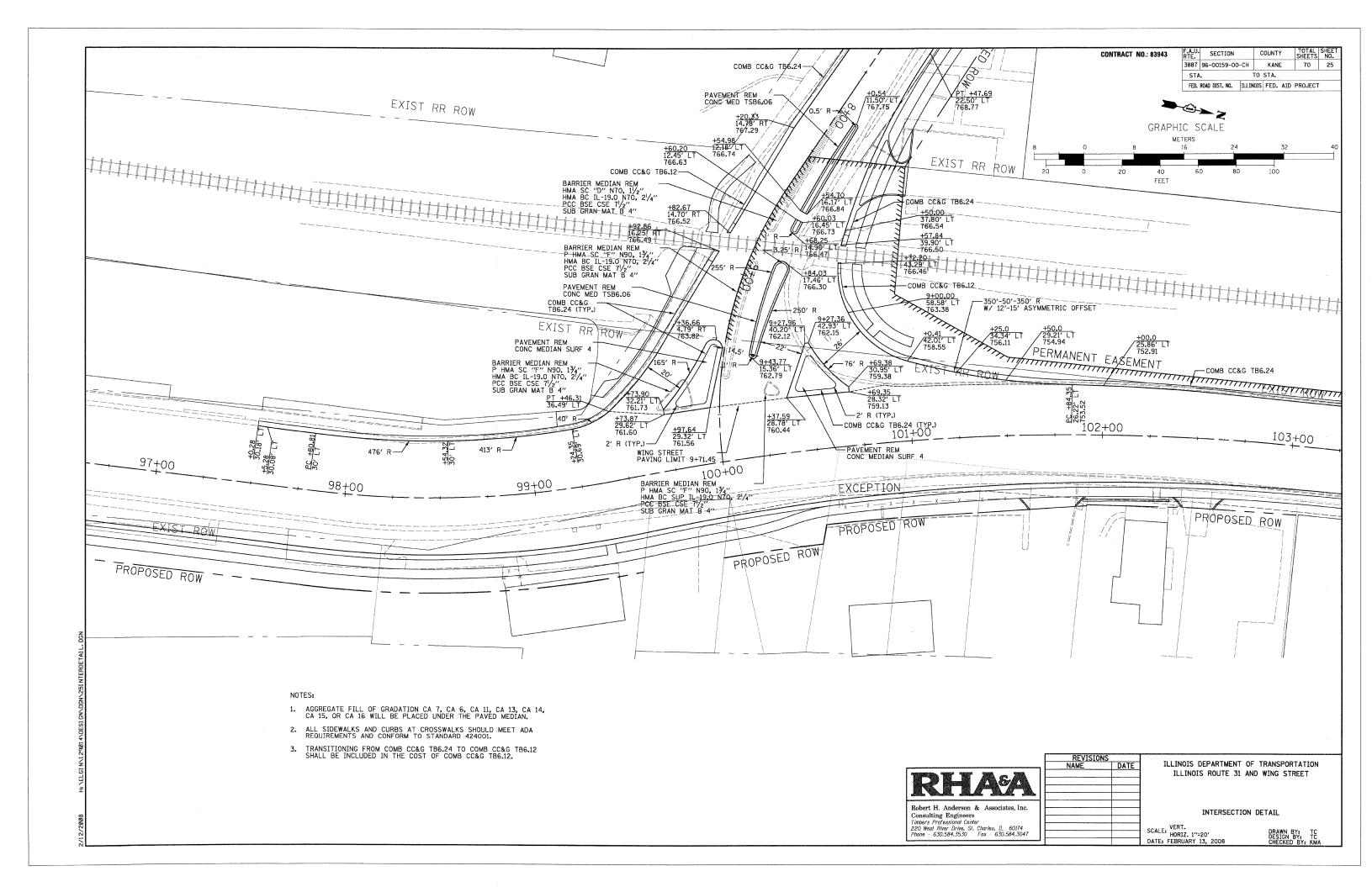
EROSION AND SEDIMENT CONTROL PLAN STA 89+79.30 TO STA 98+00.00



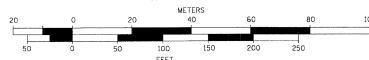




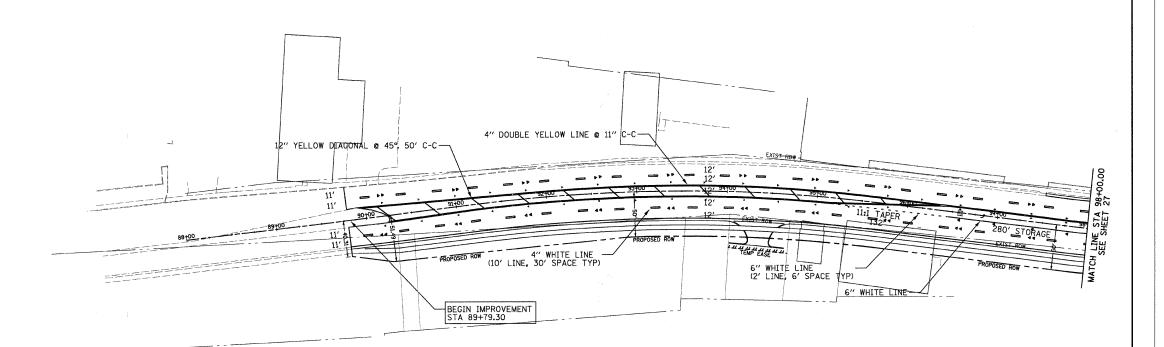




GRAPHIC SCALE







PAVEMENT MARKERS LEGEND

- → ONE-WAY CRYSTAL MARKER
- ONE-WAY AMBER MARKER
- ◆ TWO-WAY AMBER MARKER

NOTES:

- 1. ALL PAVEMENT MARKINGS WILL BE THERMOPLASTIC.
- 2. FOR DETAILS OF RAISED PAVEMENT MARKERS SEE TYPICAL APPLICATIONS RAISED REFLECTIVE PAVEMENT MARKERS STANDARD.
- 3. LETTERS AND SYMBOLS WILL BE LARGE SIZE.



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REVISIONS					
NAME	DATE				
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ILLINOIS DEPARTMENT OF TRANSPORTATION
ILLINOIS ROUTE 31 AND WING STREET

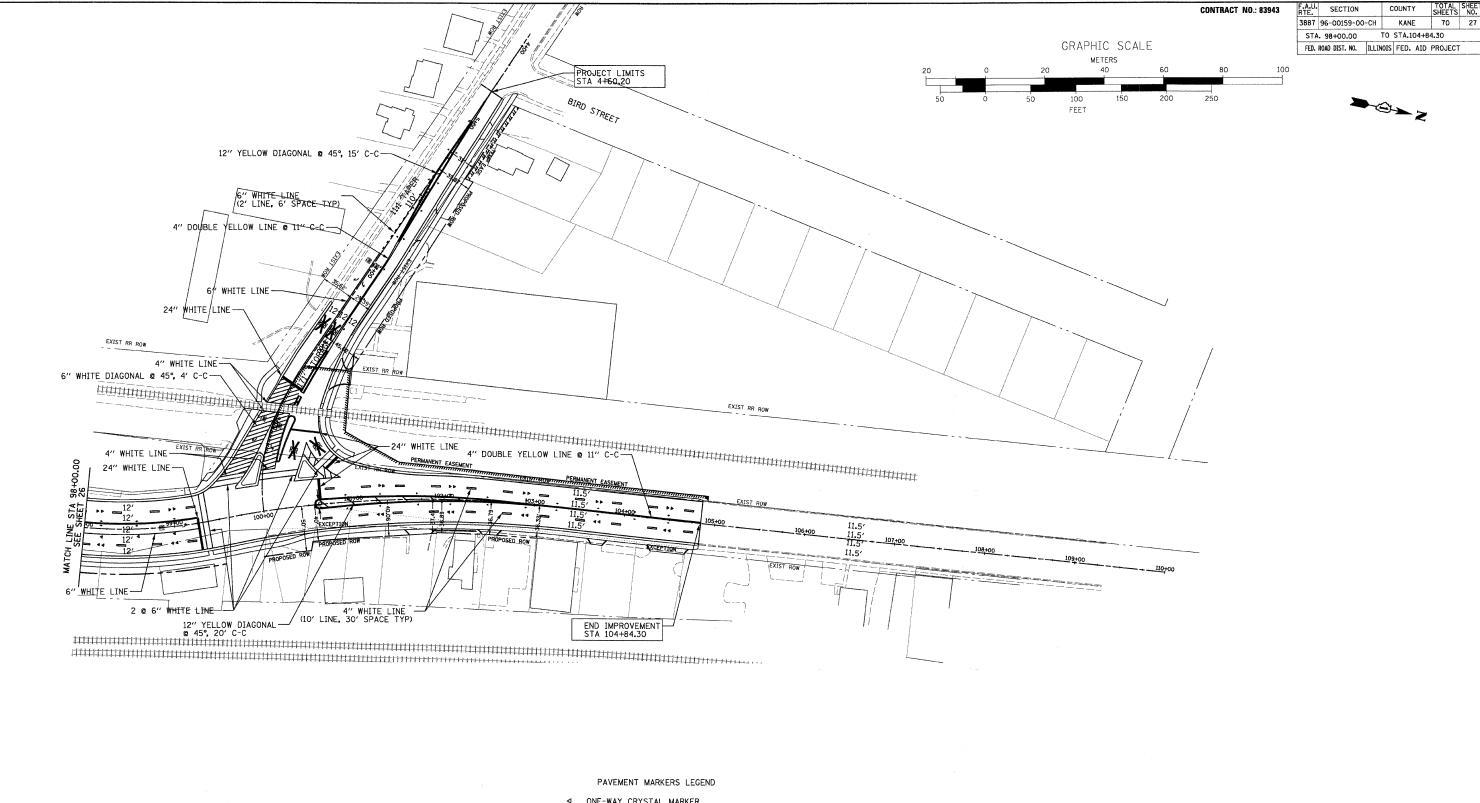
STRIPING PLAN STA 89+79.30 TO STA 98+00.00

SCALE: VERT. HORIZ. 1"=50' DATE: FEBRUARY 13, 2008

DRAWN BY: TC DESIGN BY: TC CHECKED BY: KMA

H: \ELGIN\! 29014\UESI 0

12/2008



- ONE-WAY CRYSTAL MARKER
- ONE-WAY AMBER MARKER
- ◆ TWO-WAY AMBER MARKER

NOTES:

- 1. ALL PAVEMENT MARKINGS WILL BE THERMOPLASTIC.
- 2. FOR DETAILS OF RAISED PAVEMENT MARKERS SEE TYPICAL APPLICATIONS RAISED REFLECTIVE PAVEMENT MARKERS STANDARD.
- 3. LETTERS AND SYMBOLS WILL BE LARGE SIZE.



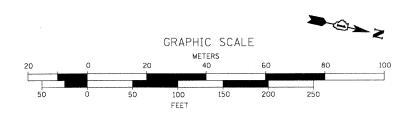
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Phone - 630.584.3530 Fax - 630.584.3047

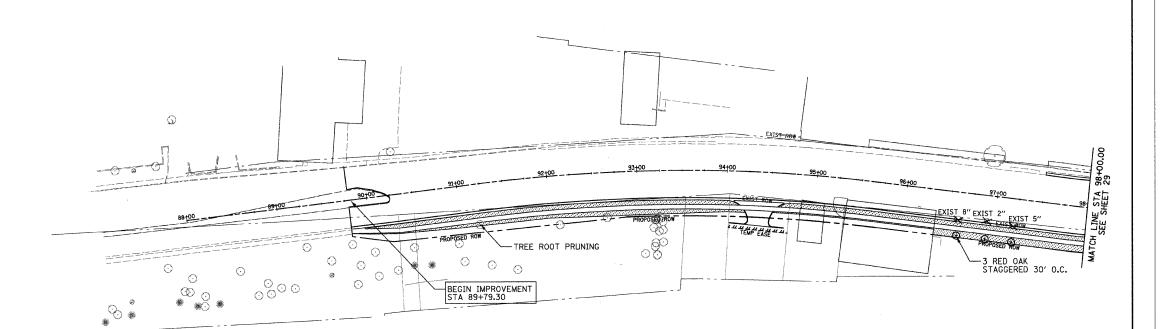
ATE	ILLINOIS DEPARTMENT	OF TRANSPORTATIO
	ILLINOIS ROUTE 31	AND WING STREET

STRIPING PLAN STA 98+00.00 TO STA 104+84.30



943	F.A.U. RTE.	SECTION	C	OUNT	Y	TOTAL	SHEET NO.
	3887	96-00159-00-	-CH	KAN	E	70	28
	STA	89+79.30	T0	STA.9	8+00	.00	
	FED.	ROAD DIST. NO.	ILLINOIS	FED.	AID	PROJECT	





LANDSCAPING LEGEND

4" TOPSOIL & SODDING

X TREE REMOVAL

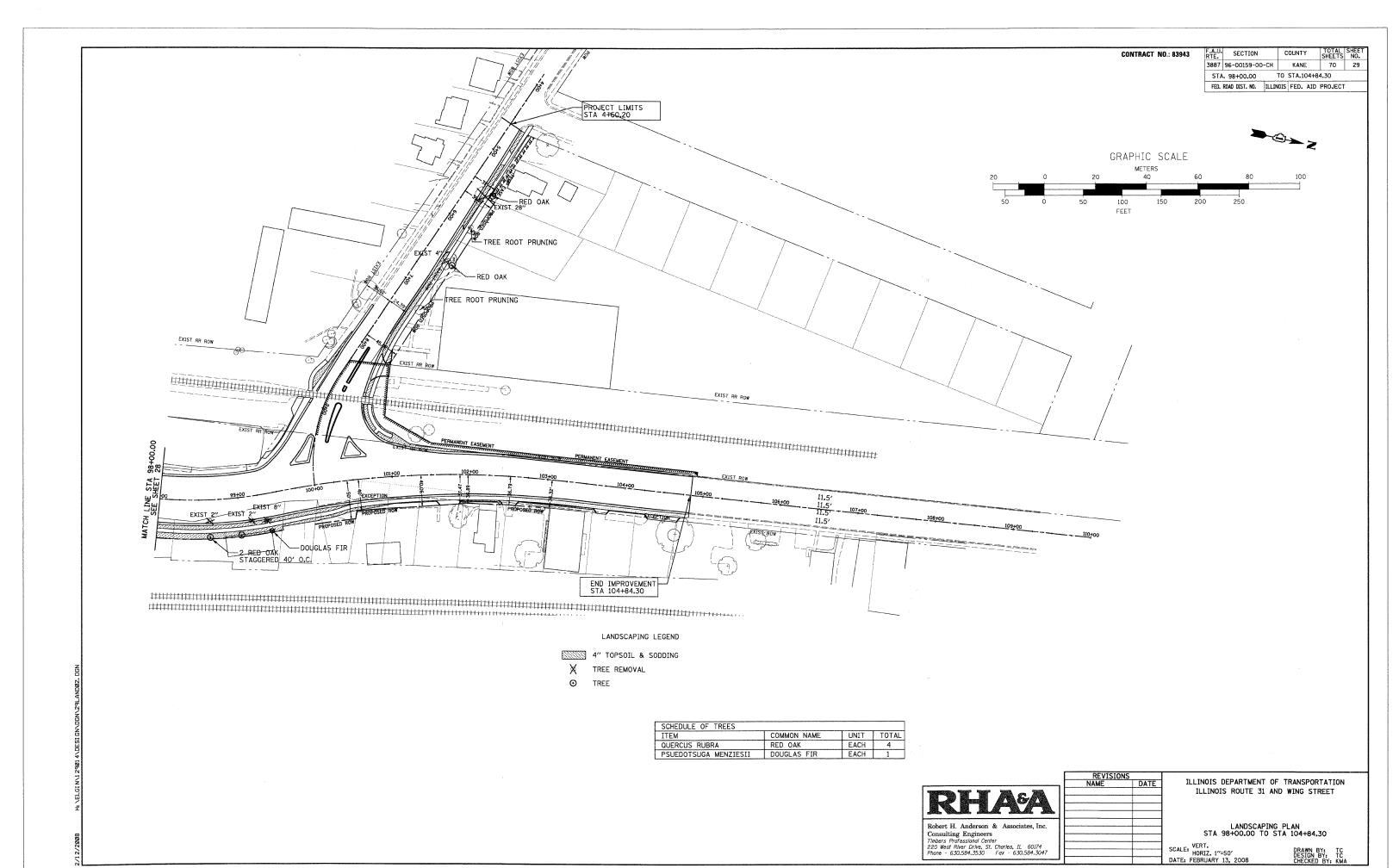
TREE

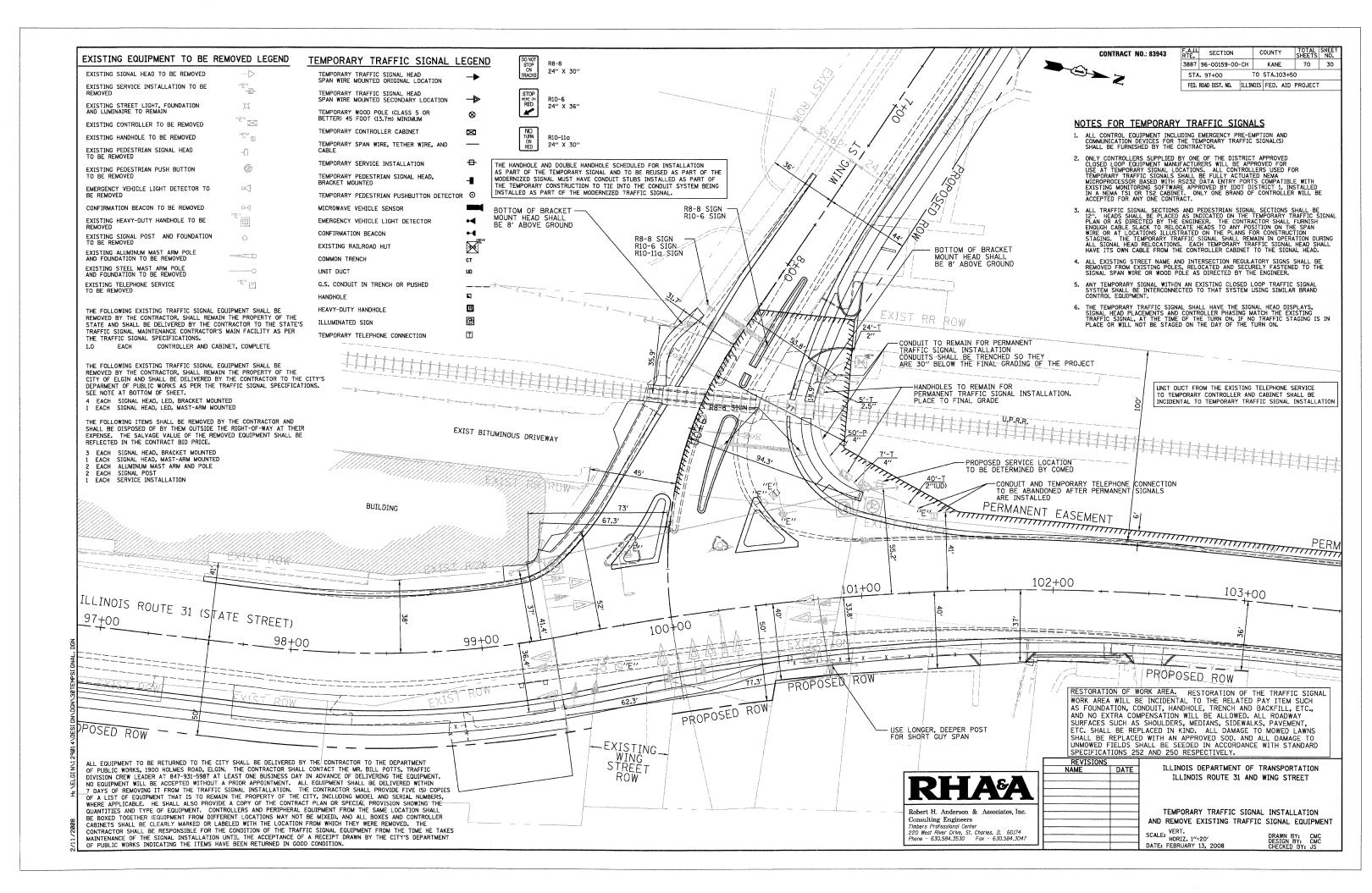
SCHEDULE OF TREES			
ITEM	COMMON NAME	UNIT	TOTAL
QUERCUS RUBRA	RED OAK	EACH	3

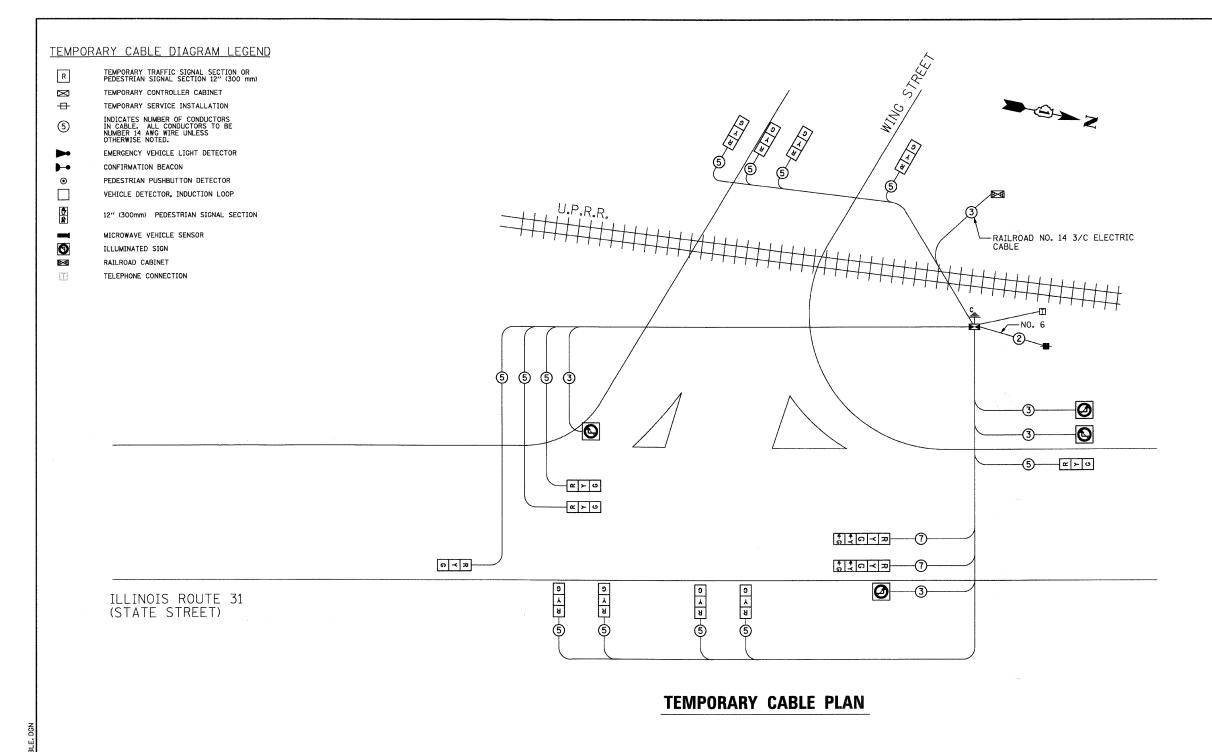
R			
Robert H.	Anderson	& Associa	tes, Inc.
	g Engineer		
220 West R	iver Drive, Si	t. Charles, IL Fax - 630.	

ILLINOIS	DEPARTMEN	T OF	TRANS	PORTATION
ILLINOI	S ROUTE 3	1 AND	WING	STREET

LANDSCAPING PLAN STA 89+79.30 TO STA 98+00.00







SCHEDULE OF QUANTITIES

ITEM	UNIT	QUANTITY	
CONDUIT IN TRENCH, 2" DIA., GALVANIZED STEEL	FOOT	24	
CONDUIT IN TRENCH, 2 1/2 " DIA., GALVANIZED STEEL	FOOT	5	
CONDUIT IN TRENCH, 4" DIA., GALVANIZED STEEL	FOOT	7	
CONDUIT PUSHED, 4" DIA., GALVANIZED STEEL	FOOT	50	
HANDHOLE	EACH	1	
DOUBLE HANDHOLE	EACH	1	
TRENCH AND BACKFILL FOR ELECTRICAL WORK	FOOT	76	
TEMPORARY TRAFFIC SIGNAL INSTALLATION	EACH	1	
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1	
REMOVE EXISTING HANDHOLE	EACH	3	
REMOVE EXISTING CONCRETE FOUNDATION	EACH	5	
TEMPORARY TRAFFIC SIGNAL TIMINGS	EACH	1	

TEMPC						
GN\DGN\31 TE		I.D.O. FIC SIGNAL CAL SERVICE	INSTALL			TOTAL
GNO	TYPE	NO. LAMPS	INCAND.	TAGE ,	%OPERATION	WATTAGE
13	SIGNAL (RED)	14	135	11	0.50	945.00
4\DE	(YELLOW)	14	135	25	0.25	472.50
2	(GREEN)	14	135	15	0.25	472.50
17	ARROW	4	135	12	0.10	54.00
2901	CONTROLLER	1	100	100	1.00	100.00
1,2	ILLUM. SIGN	4		25	0.05	5.00
ź						
GI NN1						
\EL						
Ï						
	ENERGY COSTS	TO:			TOTAL =	2049.00
2/11/2008	201 WEST CE	EPARTMENT NTER COURT ILLINOIS 60 CONTACT: PHONE: COMPANY:	196-1096 <u>KATH)</u> (847)	NSPORT NYSTE 816-54 ED.	ROM	
N.					····	

RESTORATION OF WORK AREA. RESTORATION OF THE TRAFFIC SIGNAL WORK AREA WILL BE INCIDENTAL TO THE RELATED PAY ITEM SUCH AS FOUNDATION, CONDUIT, HANDHOLE, TRENCH AND BACKFILL, ETC., AND NO EXTRA COMPENSATION WILL BE ALLOWED. ALL ROADWAY SURFACES SUCH AS SHOULDERS, MEDIANS, SIDEWALKS, PAYEMENT, ETC. SHALL BE REPLACED IN KIND. ALL DAMAGE TO MOWED LAWNS SHALL BE REPLACED WITH AN APPROVED SOD. AND ALL DAMAGE TO UNMOWED FIELDS SHALL BE SEEDED IN ACCORDANCE WITH STANDARD SPECIFICATIONS 252 AND 250 RESPECTIVELY.

Robert H. Anderson & Associates, Inc.
Consulting Engineers
Timbers Professional Center
220 West River Drive, 5t. Charles, IL 60174
Phone - 630.584.350 Fax - 630.584.3047

REVISIONS NAME		
NAME	DATE	
		S

ILLINOIS DEPARTMENT OF TRANSPORTATION ILLINOIS ROUTE 31 AND WING STREET

TEMPORARY CABLE PLAN

SCALE: VERT.
SCALE: HORIZ. NONE
DATE: FEBRUARY 13, 2008

DRAWN BY: CMC DESIGN BY: CMC CHECKED BY: JS

 F.A.U. RTE.	SECTION		COUNTY	TOT SHE	TAL ETS	SHEET NO.
3887	96-00159-00	-CH	KANE	7	0	32
STA			TO STA.			
FED.	ROAD DIST. NO.	ILLIN	IOIS FED.	AID PRO	JECT	

TEMPORARY SEQUENCE OF OPERATION

MOVEMENT (1)		WING STREET	5 2	WING S <u>TRE</u>	e T	IL RT 31	WING STREE	ET	4	1 1L RT 31		F
PHASE		2-	+5		2+6				4			А
INTERVAL		1	2	3	4A	4B	5	6A	6B	6C	6D	S
CHANGE TO			2+6		4	1			2-	- 5		Н
ILL. RTE. 31 (STATE STREET) FAR SIGNALS	N/B	G _G	GY	G	Y	R	R	R	R	R	R	R
ILL. RTE. 31 (STATE STREET) NEAR SIGNAL	N/B	G	G	G	Υ	R	R	R	R	R	R	R
ILL. RTE. 31 (STATE STREET) ALL SIGNALS	S/B	R	R	G	Υ	R	R	R	R	R	R	R
WING STREET (EAST OF TRACKS) ALL SIGNALS	E/B	R	R	R	R	R	G	G	G	Y	R	R
WING STREET (WEST OF TRACKS) ALL SIGNALS	E/B	R	R	R	R	R	G	Y	R	R	R	R

TEMPORARY RAILROAD PREEMPTION SEQUENCE OF OPERATION

								PREEMPTOR NUMBER 2				
CHANGE FROM NORMAL SEQUENCE OF OPERATION INTERVAL NUMBER		1			3		5					
RAILROAD PREEMPTION SEQUENCE OF OPERATION INTERVAL NUMBER		1A	1B	1C	1D	1E	1F	2	3	4	5	CLEAR TO
CHANGE TO RAILROAD PREEMPTION SEQUENCE OF OPERATION INTERVAL NUMBER		1B	2	1D	2	1F	2	3	4	5		NORMAL SEQUENCE
ILL. RTE. 31 (STATE STREET) FAR SIGNALS	N/B	Y	R	Υ	R	R	R	R	R	R	G	Δ
ILL. RTE. 31 (STATE STREET) NEAR SIGNAL	N/B	Y	R	Υ	R	R	R	R	R	R	G	Δ
ILL. RTE. 31 (STATE STREET) ALL SIGNALS	S/B	R	R	Υ	R	R	R	R	R	R	G	Δ
WING STREET (EAST OF TRACKS) ALL SIGNALS	E/B	R	R	R	R	G	G	G	Υ	R	R	Δ
WING STREET (WEST OF TRACKS) ALL SIGNALS	E/B	R	R	R	R	Υ	R	R	R	R	R	Δ
ILL. RTE. 31 INTERNALLY ILLUMINATED NO LEFT TURN SIGNS	N/B	NLT	NLT	NLT	NLT	Δ						
ILL. RTE. 31 INTERNALLY ILLUMINATED NO RIGHT TURN SIGNS	S/B	NRT	NRT	NRT	NRT	Δ						
·											HOLD	

NRT = "NO RIGHT TURN" OR

NLT = "NO LEFT TURN" OR

☐ = RAILROAD PREEMPTION SEQUENCE SHALL PROVIDE THE PROPER CLEARANCE INTERVAL TO RESUME THE NORMAL SEQUENCE OF OPERATION OR PROPER CLEARANCE INTERVAL TO DISPLAY AN EMERENCY VEHICLE INTERVAL (IF APPLICABLE) AFTER RAILROAD INTERVAL 5 IS TERMINATED.

RHAA

Robert H. Anderson & Associates, Inc. Consulting Engineers Timbers Professional Center 220 West River Drive, St. Charles, IL 60174 Phone - 630.584.3530 Fax - 630.584.3047

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	NAME	DATE	
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ILLINOIS DEPARTMENT OF TRANSPORTATION
ILLINOIS ROUTE 31 AND WING STREET

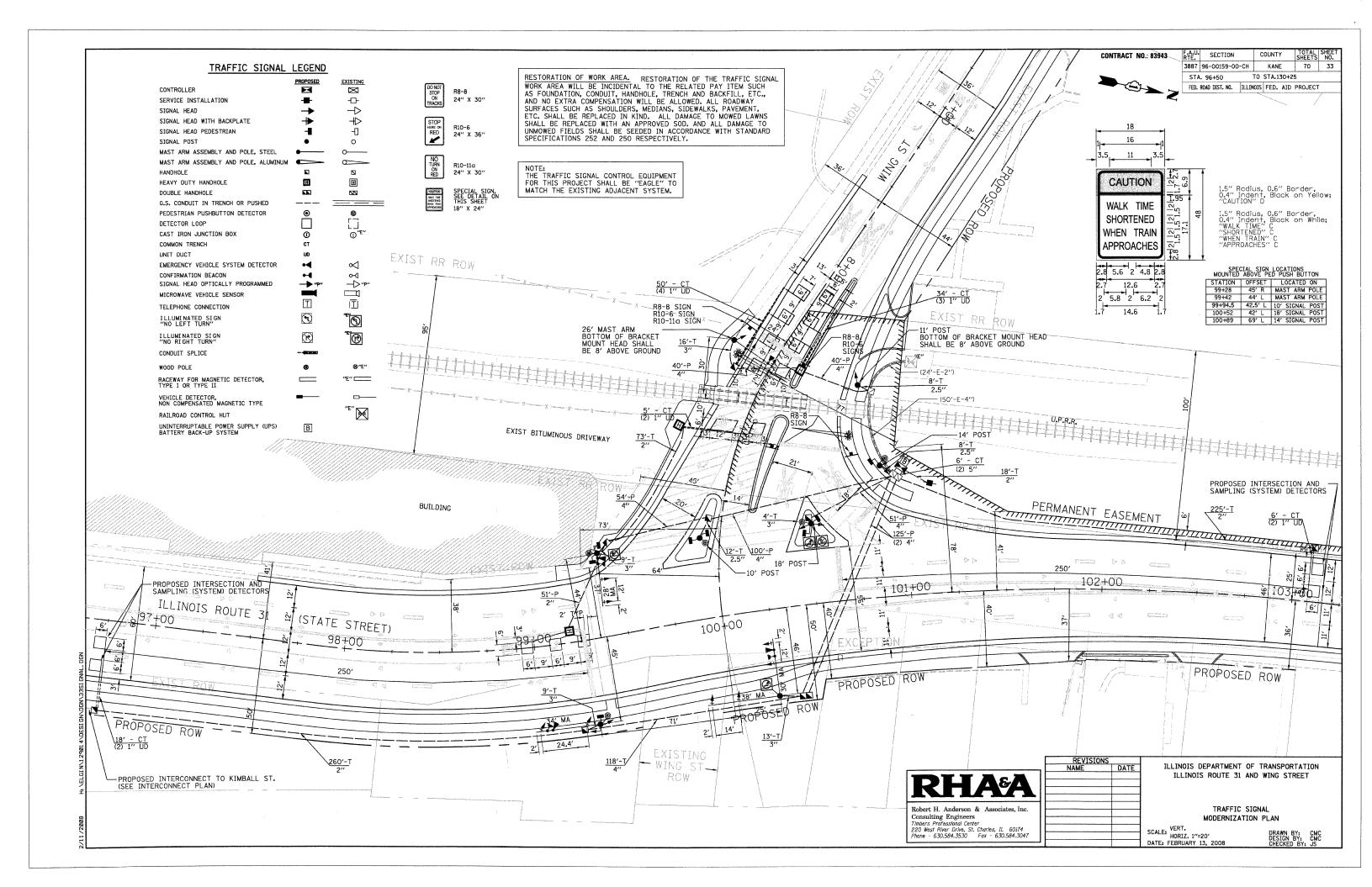
TEMPORARY SEQUENCE OF OPERATION
TEMPORARY RAILROAD PREEMPTION SEQUENCE
OF OPERATION

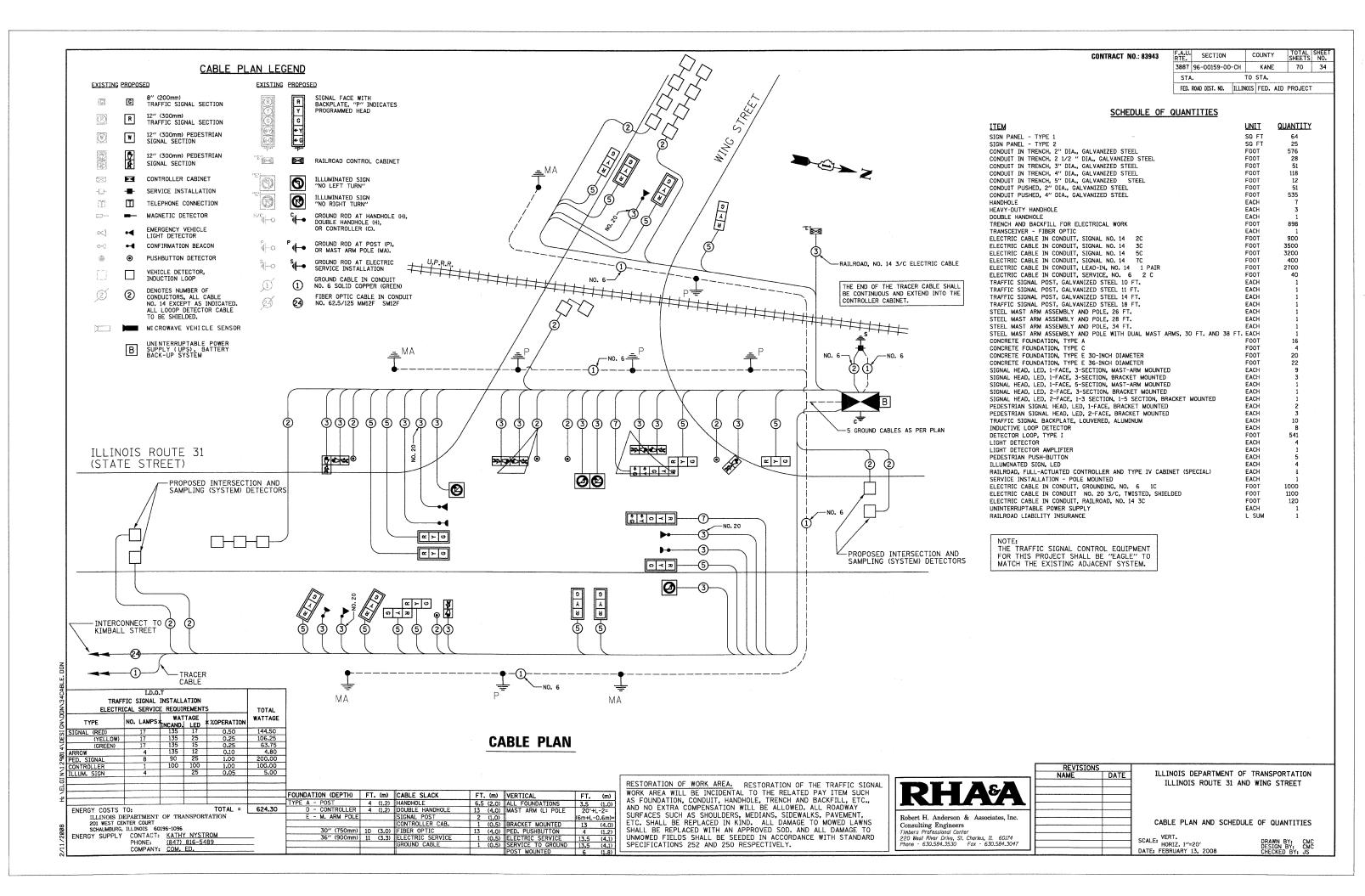
SCALE: VERT.
HORIZ. NONE
DATE: FEBRUARY 13, 2008

DRAWN BY: CMC DESIGN BY: CMC CHECKED BY: JS

RESTORATION OF WORK AREA. RESTORATION OF THE TRAFFIC SIGNAL WORK AREA WILL BE INCIDENTAL TO THE RELATED PAY ITEM SUCH AS FOUNDATION, CONDUIT, HANDHOLE, TRENCH AND BACKFILL, ETC., AND NO EXTRA COMPENSATION WILL BE ALLOWED. ALL ROADWAY SURFACES SUCH AS SHOULDERS, MEDIANS, SIDEWALKS, PAVEMENT, ETC. SHALL BE REPLACED IN KIND. ALL DAMAGE TO MOWED LAWNS SHALL BE REPLACED WITH AN APPROVED SOD. AND ALL DAMAGE TO UNMOWED FIELDS SHALL BE SEEDED IN ACCORDANCE WITH STANDARD SPECIFICATIONS 252 AND 250 RESPECTIVELY.

11/2008 H: \ELGIN\1





MOVEMENT (1)	WING STREET	WING STRE		6	ILL. RTE. 31	WING STREET 2										
PHASE			2+5				2-	+6				2	1			\ \
INTERVAL		1	2	ЗА	3B	4	5	6A	6В	7	8	9 A	9B	9C	9D	A
CHANGE TO			2+6	4	4	*/	**	4	4	*/	**/		2+5,	2+6		о Н
ILL. RTE. 31 (STATE STREET) FAR LEFT & END MAST ARM SIGNALS	N/B	G _G	Gy	Y	R	G	G	Υ	R	R	R	R	R	R	R	R
ILL. RTE. 31 (STATE STREET) NEAR RIGHT & FAR RIGHT MAST ARM SIGNALS	N/B	G	G	Υ	R	G	G	Υ	R	R	R	R	R	R	R	R
ILL. RTE. 31 (STATE STREET) ALL SIGNALS	S/B	R	R	R	R	G	G	Υ	R	R	R	R	R	R	R	R
WING STREET (EAST OF TRACKS) ALL SIGNALS	E/B	R	R	R	R	R	R	R	R	G	G	G	G	Υ	R	R
WING STREET (WEST OF TRACKS) ALL SIGNALS	E/B	R	R	R	R	R	R	R	R	G	G	Υ	R	R	R	R
PED. SIGNALS X-ING ILL. RTE. 31 (STATE ST.) ON SOUTH SIDE OF WING STREET		Н	Н	Н	Н	Н	Н	Н	Н	Р	FH	Н	Н	Н	Н	D A
PED. SIGNALS X-ING WING STREET ON WEST SIDE OF ILL. RTE. 31 (STATE ST.)		Н	Н	Н	Н	Р	FH	Н	Н	Н	Н	Н	Н	Н	Н	Ŕĸ

SECTION 3887 96-00159-00-CH KANE 70 35 STA. TO STA. FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT

PHASE 2+6 SHALL BE PLACED ON RECALL

P = ILLUMINATED PERSON = WALK

FH = ILLUMINATED FLASHING HAND = FLASHING DON'T WALK

H = ILLUMINATED SOLID HAND = DON'T WALK

- * TO APPEAR ONLY UPON PUSHBUTTON ACTUATION
- ** FLASHING 'IS TO TERMINATE AT THE COMPLETION OF THE PEDESTRIAN INTERVAL CLEARANCE.

RESTORATION OF WORK AREA. RESTORATION OF THE TRAFFIC SIGNAL WORK AREA WILL BE INCIDENTAL TO THE RELATED PAY ITEM SUCH AS FOUNDATION, CONDUIT, HANDHOLE, TRENCH AND BACKFILL, ETC., AND NO EXTRA COMPENSATION WILL BE ALLOWED. ALL ROADWAY SURFACES SUCH AS SHOULDERS, MEDIANS, SIDEWALKS, PAVEMENT, ETC. SHALL BE REPLACED IN KIND. ALL DAMAGE TO MOWED LAWNS SHALL BE REPLACED WITH AN APPROVED SOD. AND ALL DAMAGE TO UNMOWED FIELDS SHALL BE SEEDED IN ACCORDANCE WITH STANDARD SPECIFICATIONS 252 AND 250 RESPECTIVELY.

NOTE: THE TRAFFIC SIGNAL CONTROL EQUIPMENT FOR THIS PROJECT SHALL BE "EAGLE" TO MATCH THE EXISTING ADJACENT SYSTEM.

NRT = "NO RIGHT TURN" OR

NLT = "NO LEFT TURN" OR

☐ = RAILROAD PREEMPTION SEQUENCE SHALL PROVIDE THE PROPER CLEARANCE INTERVAL TO RESUME THE NORMAL SEQUENCE OF OPERATION OR PROPER CLEARANCE INTERVAL TO DISPLAY AN EMERENCY VEHICLE INTERVAL (IF APPLICABLE) AFTER RAILROAD INTERVAL 5 IS TERMINATED.

RAILROAD PREEMPTION SEQUENCE OF OPERATION

						PREEI NUMB	MPTOR ER 3	PREEMPTOR NUMBER 4		FOR PREEMPTOR NUMBER 2						
CHANGE FROM NORMAL SEQUENCE OF OPERATION INTERVAL NUMBER			1		4		7									
CHANGE FROM EMERGENCY VEHICLE PREEMPTION SEQUENCE OF OPERATION INTERVAL NUMBER									2		3					
RAILROAD PREEMPTION SEQUENCE OF OPERATION INTERVAL NUMBER		1A	1B	1C	1D	1E	1F	1G	1H	1J	1K	2	3	4	5	CLEAR
CHANGE TO RAILROAD PREEMPTION SEQUENCE OF OPERATION INTERVAL NUMBER		1B	2	1D	2	1F	2	1H	2	1K	2	3	4	5		TO NORMAL SEQUENCE
ILL. RTE. 31 (STATE STREET) FAR LEFT & END MAST ARM SIGNALS	N/B	Υ	R	Υ	R	R	R	Υ	R	R	R	R	R	R	G	Δ
ILL. RTE. 31 (STATE STREET) NEAR RIGHT & RIGHT MAST ARM SIGNALS	N/B	Υ	R	Υ	R	R	R	Υ	R	R	R	R	R	R	G	Δ
ILL. RTE. 31 (STATE STREET) ALL SIGNALS	S/B	R	R	Υ	R	R	R	Υ	R	R	R	R	R	R	G	Δ
WING STREET (EAST OF TRACKS) ALL SIGNALS	E/B	R	R	R	R	G	G	R	R	G	G	G	Υ	R	R	Δ
WING STREET (WEST OF TRACKS) ALL SIGNALS	E/B	R	R	R	R	Y	R	R	R	Υ	R	R	R	R	R	Δ
PED. SIGNALS X-ING ILL. RTE. 31 (STATE ST.) ON SOUTH SIDE OF WING STREET		Н	Н	Н	Н	FH	Н	Н	Н	Н	Н	Τ	Н	Н	Н	Δ
PED. SIGNALS X-ING WING STREET ON WEST SIDE OF ILL. RTE. 31 (STATE ST.)		Н	Н	FH	Н	Н	Н	Н	Н	Н	Н	Η	Н	Н	Н	Δ
ILL. RTE. 31 INTERNALLY ILLUMINATED NO LEFT TURN SIGNS	N/B	NLT	NLT	NLT	NLT	NLT	NLT	NLT	NLT	NLT	NLT	NLT	NLT	NLT	NLT	Δ
ILL. RTE. 31 INTERNALLY ILLUMINATED NO RIGHT TURN SIGNS	S/B	NRT	NRT	NRT	NRT	NRT	NRT	NRT	NRT	NRT	NRT	NRT	NRT	NRT	NRT	Δ
															HOLD	

Consulting Engineers
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ILLINOIS DEPARTMENT OF TRANSPORTATION ILLINOIS ROUTE 31 AND WING STREET

> PROPOSED SEQUENCE OF OPERATION RAILROAD PREEMPTION SEQUENCE OF OPERATION

SCALE: VERT. HORIZ. NONE DATE: FEBRUARY 13, 2008

PROPOSED EMERGENCY VEHICLE PREEMPTION SEQUENCE OF OPERATION

															PREEMPTOR NUMBER 3	PREEMPTOR NUMBER 4	
CHANGE FROM NORMAL SEQUENCE OF OPERATION INTERVAL NUMBER		1		1	4		4				7			7			CLEAR TO
EMERGENCY VEHICLE PREEMPTION SEQUENCE OF OPERATION INTERVAL NUMBER		1A	1B	1C	1D	1E	1F	1G	1H	1J	1K	1L	1M	1N	2	3	NORMAL SEQUENCE
CHANGE TO EMERGENCY VEHICLE PREEMPTION SEQUENCE OF OPERATION INTERVAL NUMBER		2	1C	3	2	1F	1G	3	1J	1K	1L	1M	2	3			\Diamond
ILL. RTE. 31 (STATE STREET) FAR LEFT & END MAST ARM SIGNALS	N/B	G _Y	Υ	R	G	G	Υ	R	R	R	R	R	R	R	G	R	\Diamond
ILL. RTE. 31 (STATE STREET) NEAR RIGHT & FAR RIGHT MAST ARM SIGNALS	N/B	G	Υ	R	G	G	Υ	R	R	R	R	R	R	R	G	R	\Diamond
ILL. RTE. 31 (STATE STREET) ALL SIGNALS	S/B	R	R	R	G	G	Υ	R	R	R	R	R	R	R	G	R	\Diamond
WING STREET (EAST OF TRACKS) ALL SIGNALS	E/B	R	R	R	R	R	R	R	G	G	G	Υ	R	G	R	G	\Diamond
WING STREET (WEST OF TRACKS) ALL SIGNALS	E/B	R	R	R	R	R	R	R	G	Υ	R	R	R	G	R	G	\Diamond
PED. SIGNALS X-ING ILL. RTE. 31 (STATE ST.) ON SOUTH SIDE OF WING STREET		Н	Н	Н	Н	Н	Н	Н	FH	Н	Н	Н	Н	FH	Н	Н	\Diamond
PED. SIGNALS X-ING WING STREET ON WEST SIDE OF ILL. RTE. 31 (STATE ST.)		Н	Н	Н	FH	FH	Н	Н	Н	Н	Н	Н	Н	Н	Н	Н	\Diamond

P = ILLUMINATED PERSON = WALK

FH = ILLUMINATED FLASHING HAND = FLASHING DON'T WALK

H = ILLUMINATED SOLID HAND = DON'T WALK

IS TERMINATED.

NOTE: THE TRAFFIC SIGNAL CONTROL EQUIPMENT FOR THIS PROJECT SHALL BE "EAGLE" TO MATCH THE EXISTING ADJACENT SYSTEM.

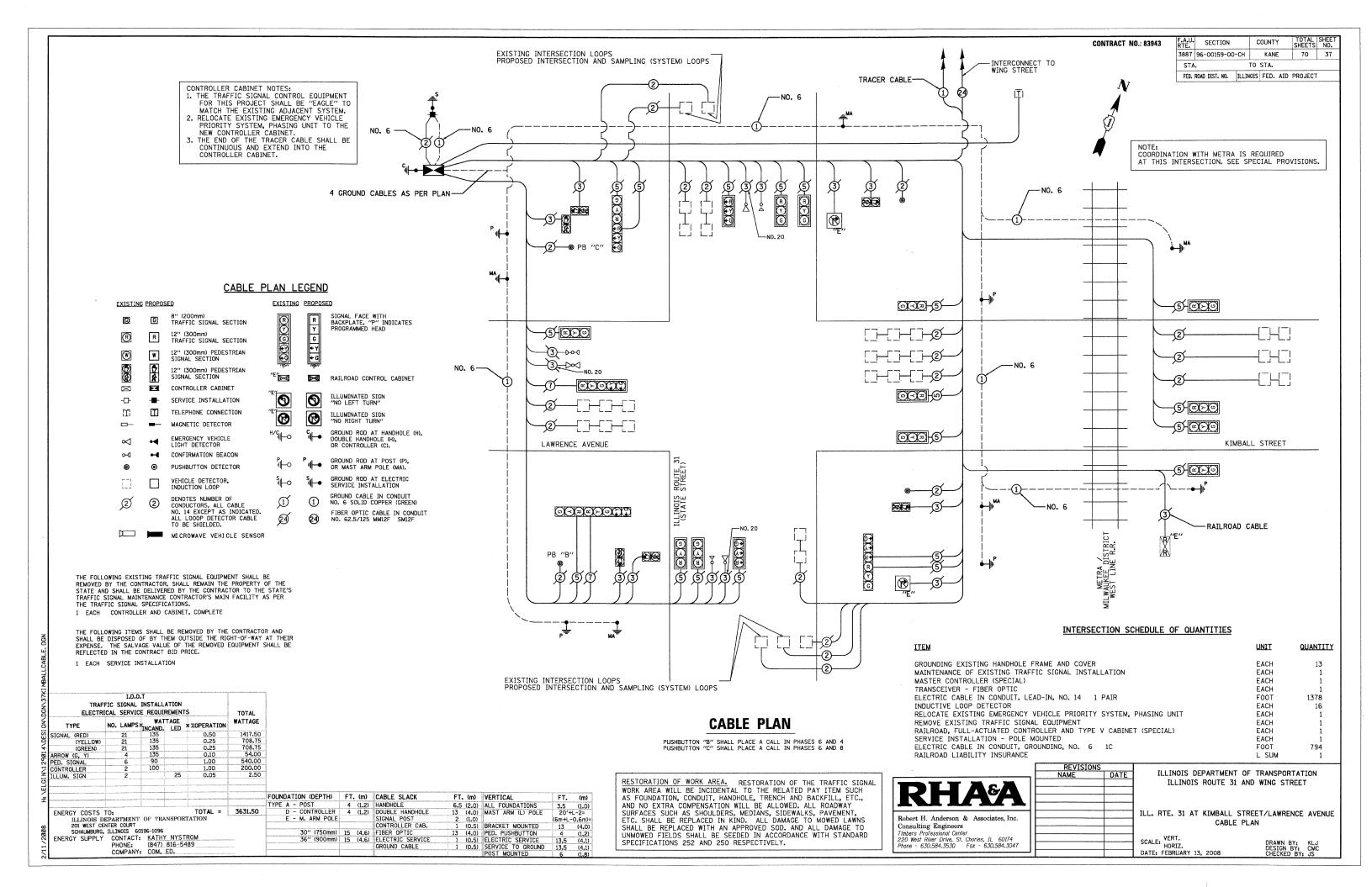
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ILLINOIS DEPARTMENT OF TRANSPORTATION ILLINOIS ROUTE 31 AND WING STREET

> EMERGENCY VEHICLE PREEMPTION SEQUENCE OF OPERATION

SCALE: VERT. HORIZ. NONE DATE: FEBRUARY 13, 2008



F	F.A.U. RTE.	SECTION		COUNT	Y	TOTAL SHEETS	SHEET NO.
	3887	96-00159-00	-CH	KAN	E	70	38
-	STA	·	то	STA.			
Ī	FED.	ROAD DIST. NO.	ILLINOIS	FED.	AID	PROJECT	•

SEQUENCE OF OPERATION

			. 1																																		
MOVEMENT N	LA <u>WI</u>			<u></u>	####	KIME	ALL -	P#	*	<u>ן</u>	#-		5 2	###	_		P P] 6	1 2	#				}	OL OL	_		#	-	 8 3	4-	-] <u>-</u> -	- 원		8	F L A
PHASE			1	+ !	5				1 -	+ 6			2 +	5				2 -	+ 6							3 +	- 8						4 -	+ 8			s
INTERVAL	1	2A	2B	ЗА	3B	4A	4B	5	6	7A	7B	8	9A	9B	10	11	12A	12B	13A	13B	14A	14B	15	16	17A	17B	17C	17D	18A	18B	19	20	21A	21B	21C	21D	Н
CHANGE TO		1 -	- 6	2 -	+ 5	2 -	⊦ 6	9/	9/	2	+ 6		2 +	- 6			1+5	,3+8 +8	1 +	- 6	2 +	- 5	$\overline{\ }$	\nearrow		1+5, 2+5.	1+6	h	4 -	+ 8	7	/		1+5, 2+5.	,1+6 ,2+6		
IL 31 NB CENTER AND FAR RIGHT MAST ARM, NEAR RIGHT SIGNALS	R	R	R	R	R	R	R	R	R	R	R	G	G	G	G	G	Y	R	Υ	R	G	G	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R
IL 31 NB END MAST ARM AND FAR LEFT SIGNALS	← G	← Y	← R	← G	← G	+Y	←R	←R	←R	+-R	←R	← G	← Y	← R	←R	← R	 R	← R	← R	← R	+-R	₩R	←R	←R	- -R	←R	←R	 R	R	←R	← R	- -R	 R	←R	←R	- -R	R
IL 31 SB CENTER AND FAR RIGHT MAST ARM, NEAR RIGHT SIGNALS	R	R	R	R	R	R	R	G	G	G	G	R	R	R	G	G	Y	R	G	G	Υ	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R
IL 31 SB END MAST ARM AND FAR LEFT SIGNALS	- G	← G	← G	- -Y	←R	- -Y	←R	← G	←G	÷Υ	 R	← R	← R	←R	+-R	←R	+R	←R	← R	←R	← R	+-R	←R	- -R	←R	← R	- R	 R	← R	←R	← R	← R	- -R	← R	←R	← R	- -R
KIMBALL ST. AND WB NEAR SIDE SIGNALS ON CANTILEVER AND NEAR SIDE FAR LEFT SIGNAL	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	G	G	Υ	R	R	R	G	G	G	G	Y	R	R	R	R
KIMBALL ST. WB FAR RIGHT MAST ARM	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	G	G	G	G	Y	R	G	G	G	G	G	G	Y	R	R
KIMBALL ST. WB END MAST ARM AND FAR LEFT SIGNALS	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	G G	G G	G +-G	G ←G	Y	R	G ← Y	G	G	G	G	G	Y	R	R
LAWRENCE AVE. EB CENTER AND END MAST ARM FAR LEFT AND NEAR RIGHT SIGNALS	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	G	G	Y	R	R	R	R
PEDESTRIAN SIGNALS CROSSING NORTH LEG OF IL RTE 31	Н	Н	Н	Н	Н	Н	Н	Н	Н	Н	Н	Н	Н	Н	Н	Н	Н	Н	Н	Н	Н	Н	*P	ř.	Н	Н	Н	Н	Н	Н	*P	FH.	Н	н	Н	Н	D
PEDESTRIAN SIGNALS CROSSING SOUTH LEG OF IL RTE 31	Н	Н	Н	Н	Н	Н	Н	Н	Н	Н	Н	Н	Н	Н	Н	Н	Н	Н	Н	Н	Н	H	Н	Н	Н	Н	Н	Н	н	Н	*P	FH	Н	Н	Н	Н	A
PEDESTRIAN SIGNALS CROSSING LAWRENCE AVENUE	Н	Н	Н	Н	Н	Н	Н	*P	ĒΗ	Н	Н	Н	Н	Н	*P	ŘΗ	Н	Н	Н	Н	Н	Н	Н	Н	Н	Н	Н	Н	н	Н	Н	Н	Н	н	Н	Н	K

- * TO APPEAR ONLY UPON PUSHBUTTON ACTUATION
- ** FLASHING "F" IS TO TERMINATE AT THE COMPLETION OF THE PEDESTRIAN INTERVAL CLEARANCE

PHASES 2+6 SHALL BE PLACED ON RECALL

THIS "A" OR FLASHING "T" INTERVAL MAY FINISH TIMING IN THE BIDIRECTIONAL STRAIGHT THROUGH MOVEMENT IF THE LEFT ARROW TIME IS NOT SUFFICIENT TO COMPLETE "A" OR FLASHING "INTERVALS. "AND FLASHING" TIMINGS TO BE SET ONLY ON PHASES WHERE "AND FLASHING" ARE INDICATED IN THE SEQUENCE OF

RAILROAD PREEMPTION SEQUENCE OF OPERATION

													NUME	ER 3	NUME	ER 4	NUME	ER 5	NUMBER 2				
CHANGE FROM NORMAL SEQUENCE OF OPERATION INTERVAL NUMBER		1		5		8	1	0	1	5	1	9			17								
CHANGE FROM EMERGENCY VEHICLE PREEMPTION SEQUENCE OF OPERATION INTERVAL NUMBER				ik i							TR.			2	:	3		4			,		
RAILROAD PREEMPTION SEQUENCE OF OPERATION NUMBER	1A	18	1C	1D	1E	1F	1G	1H	1J	1K	1L	1M	1N	1P	1Q	1R	15	1T	2	3	4	5	CLEAR TO
CHANGE TO RAILROAD PREEMPTION SEQUENCE OF OPERATION INTERVAL NUMBER	1B	2	1D	2	1F	2	1H	2	1K	2	1M	2	1P	2	1R	2	1T	2	3	4	5		SEQUENC
IL 31 NB CENTER AND FAR RIGHT MAST ARM, NEAR RIGHT SIGNALS	R	R	R	R	Y	R	Υ	R	R	R	R	R	Υ	R	R	R	R	R	R	R	R	G	Δ
IL 31 NB END MAST ARM AND FAR LEFT SIGNALS	←Y	←R	- -R	- -R	←Y	←R	←R	←R	←R	←R	←R	←R	 -Y	←R	←R	←R	←R	←R	←R	← R	- -R	←R	Δ
IL 31 SB CENTER AND FAR RIGHT MAST ARM, NEAR RIGHT SIGNALS	R	R	Υ	R	R	R	Y	R	R	R	R	R	R	R	Υ	R	R	R	R	R	R	G	Δ
IL 31 SB END MAST ARM AND FAR LEFT SIGNALS	←Y	← R	- -Y	←R	←R	←R	←R	←R	← R	←R	- -R	←R	←R	←R	←Υ	←R	≁ -R	←R	←R	←R	←R	←R	Δ
KIMBALL ST. AND WB NEAR SIDE SIGNALS ON CANTILEVER AND NEAR SIDE FAR LEFT SIGNAL	R	R	R	R	R	R	R	R	Υ	R	Y	R	R	R	R	R	Υ	R	R	R	R	R	Δ
KIMBALL ST. WB FAR RIGHT MAST ARM	R	R	R	R	R	R	R	R	G	G	G	G	R	R	R	R	G	G	G	Υ	R	R	Δ
KIMBALL ST. WB END MAST ARM AND FAR LEFT SIGNALS	R	R	R	R	R	R	R	R	G ←G	G ←G	G	G	R	R	R	R	G	G	G ←G	Υ	R	R	Δ
LAWRENCE AVE, EB CENTER AND END MAST ARM FAR LEFT AND NEAR RIGHT SIGNALS	R	R	R	R	R	R	R	R	R	R	Y	R	R	R	R	R	Υ	R	R	R	R	R	Δ
PEDESTRIAN SIGNALS CROSSING NORTH LEG OF IL RTE 31	Н	Н	Н	Н	Н	н	Н	Н	FH	н	FH	Н	Н	Н	Н	н	Н	Н	Н	Н	Н	Н	Δ
PEDESTRIAN SIGNALS CROSSING SOUTH LEG OF IL RTE 31	Н	Н	Н	Н	Н	Н	Н	Н	Н	Н	FH	Н	Н	Н	Н	Н	н	н	Н	Н	Н	Н	Δ
PEDESTRIAN SIGNALS CROSSING LAWRENCE AVENUE	Н	Н	FH	Н	Н	Н	FH	Н	Н	Н	Н	Н	Н	Н	Н	Н	Н	Н	Н	н	Н	Н	Δ
IL RTE 31 NB INTERNALLY ILLUMINATED NRT SIGNS	NRT	NRT	NRT	NRT	NRT	NRT	NRT	NRT	NRT	NRT	NRT	NRT	NRT	NRT	NRT	NRT	NRT	NRT	NRT	NRT	NRT	NRT	
																						HOI D	

 Δ RAILROAD PREEMPTION SEQUENCE SHALL PROVIDE THE PROPER CLEARANCE INTERVAL TO RESUME THE NORMAL SEQUENCE OF OPERATION OR PROPER CLEARANCE INTERVAL TO DISPLAY AN EMERENCY VEHICLE INTERVAL (IF APPLICABLE) AFTER RAILROAD PREEMPTION INTERVAL 5 IS TERMINATED.

NRT = "NO RIGHT TURN" OR

PREEMPTOR PREEMPTOR PREEMPTOR

EMERGENCY VEHICLE PREEMPTION SEQUENCE OF OPERATION

							,																												NUMBER 3	NUMBER 4	NUMBER 5	
CHANGE FROM NORMAL SEQUENCE OF OPERATION INTERVAL NUMBER		1	1		1			5		5	8		8		10			10			10				15			15			19			19				CLEAR TO
EMERGENCY VEHICLE PREEMPTION SEQUENCE OF OPERATION NUMBER	1A	1B	1C	1D	1E	1F	1G	1H	1J	1K	1L	1M	1N	1P	10	1R	15	1T	1U	1٧	1W	1X	1Y	1Z :	1AA	IBB :	ICC 1	DD 1E	E 1F	F 1G	G 1HH	1 1 1 J J	1Kł	(1LL	2	3	4	NORMAL SEQUENCE
CHANGE TO EMERGENCY VEHICLE PREEMPTION SEQUENCE OF OPERATION INTERVAL NUMBER	18	2	1D	3	1F	4	1H	1J	र्कु	3	2	1N	ok Ok	1Q	1R	2	1T	1U	3	1W	1X	4	1Z 1	AA :	1BB :	icc	र्वे 11	E 4	1G	G 1H	H IJ	J 1KK	q q	4				\Diamond
IL 31 NB CENTER AND FAR RIGHT MAST ARM, NEAR RIGHT SIGNALS	R	R	R	R	R	R	R	R	R	R	G	Υ	R	G	G	G	G	Υ	R	G	Y	R	R	R	R	R	R	₹ R	R	R	R	R	R	R	G	R	R	\Diamond
IL 31 NB END MAST ARM AND FAR LEFT SIGNALS	- -G	- -G	← Y	≁ R	← Y	←R	← R	- -R	- -R	← R	- G	← Y	←R	←R	← R	←R	←R	← R	←R	←R	←R	←R	- R -	←R	 R	←R	+-R +	R -	R -	R -	₹ F	₹ R	- F	₹ R	←G	←R	← R	\Diamond
IL 31 SB CENTER AND FAR RIGHT MAST ARM, NEAR RIGHT SIGNALS	R	R	R	R	R	R	G	Υ	R	G	R	R	R	G	Υ	R	G	G	G	G	Υ	R	R	R	R	R	R	₹ R	R	R	R	R	R	R	R	G	R	\Diamond
IL 31 SB END MAST ARM AND FAR LEFT SIGNALS	← Y	←R	← G	←G	← Y	←R	← G	- -Y	←R	← G	←R	←R	←R	←R	← R	←R	← R	←R	←R	+R	⊷R	←R	 R -	⊷R ·	←R	R	R +	R -	R +	R ←	₹ - -F	₹ ← R	← F	₹ R	+-R	← G	←R	\Diamond
KIMBALL ST. AND WB NEAR SIDE SIGNALS ON CANTILEVER AND NEAR SIDE FAR LEFT SIGNAL	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	G	Υ	R	R	R	3 G	G	Y	R	R	R	G	R	R	G	\Diamond
KIMBALL ST. WB FAR RIGHT MAST ARM	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	G	G	G	Υ	R	G G	G	G	G	Y	R	G	R	R	G	\Diamond
KIMBALL ST. WB END MAST ARM AND FAR LEFT SIGNALS	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	G ←G	G G	G ←G	Υ	R .	G G	Y G	G	G	Y	R	G	R	R	G	\Diamond
LAWRENCE AVE. EB CENTER AND END MAST ARM FAR LEFT AND NEAR RIGHT SIGNALS	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	\neg		R		R		R R	-	Y	R	R	R	G	R	R	G	\Diamond
PEDESTRIAN SIGNALS CROSSING NORTH LEG OF IL RTE 31	Н	Н	н	Н	Н	Н	Н	Н	Н	Н	Н	Н	Н	Н	Н	Н	Н	Н	Н	н	Н	Н	FH	Н	н	Н	H F	н н	FI	1 Н	Н	Н	Н	FH	Н	Н	Н	\Diamond
PEDESTRIAN SIGNALS CROSSING SOUTH LEG OF IL RTE 31	Н	Н	Н	Н	Н	Н	Н	Н	Н	Н	Н	Н	Н	Н	Н	Н	Н	Н	Н	Н	Н	Н	н	н	Н	Н	Н	4 Н	FI	i H	Н	Н	Н	FH	Н	Н	н	\Diamond
PEDESTRIAN SIGNALS CROSSING LAWRENCE AVENUE	Н	Н	Н	Н	Н	Н	FH	Н	Н	FH	Н	Н	Н	FH	Н	Н	FH	Н	Н	FH	Н	Н	Н	Н	Н	Н	Н	4 Н	Н	Н	Н	Н	Н	Н	Н	Н	Н	\Diamond

SEMERGENCY VEHICLE SEQUENCE SHALL PROVIDE THE PROPER CLEARANCE INTERVAL TO RESUME THE NORMAL SEQUENCE OF OPERATION OR PROPER CLEARANCE INTERVAL TO DISPLAY A DIFFERENT EMERGENCY VEHICLE INTERVAL AFTER EMERGENCY VEHICLE INTERVAL 2, 3 OR 4 IS TERMINATED.

NOTE: THE TRAFFIC SIGNAL CONTROL EQUIPMENT FOR THIS PROJECT SHALL BE "EAGLE" TO MATCH THE EXISTING ADJACENT SYSTEM.

RESTORATION OF WORK AREA. RESTORATION OF THE TRAFFIC SIGNAL WORK AREA WILL BE INCIDENTAL TO THE RELATED PAY ITEM SUCH AS FOUNDATION, CONDUIT, HANDHOLE, TRENCH AND BACKFILL, ETC., AND NO EXTRA COMPENSATION WILL BE ALLOWED. ALL ROADWAY SURFACES SUCH AS SHOULDERS, MEDIANS, SIDEWALKS, PAYEMENT, ETC. SHALL BE REPLACED IN KIND. ALL DAMAGE TO MOWED LAWNS SHALL BE REPLACED WITH AN APPROVED SOD. AND ALL DAMAGE TO UNMOWED FIELDS SHALL BE SEEDED IN ACCORDANCE WITH STANDARD SPECIFICATIONS 252 AND 250 RESPECTIVELY.

P = ILLUMINATED PERSON = WALK

H = ILLUMINATED SOLID HAND = DON'T WALK

FH = ILLUMINATED FLASHING HAND = FLASHING DON'T WALK

PREEMPTOR PREEMPTOR PREEMPTOR

Robert H. Anderson & Associates, Inc. Consulting Engineers
Timbers Professional Center
220 West River Drive, St. Charles, IL 60174
Phone - 630.584.3530 Fax - 630.584.3047

ILLINOIS DEPARTMENT OF TRANSPORTATION ILLINOIS ROUTE 31 AND WING STREET ILL. RTE. 31 AT KIMBALL STREET/LAWRENCE AVENUE

SEQUENCE OF OPERATIONS, EMERGENCY VEHICLE PREEMPTION SEQUENCE OF OPERATIONS, RAILROAD PREEMPTION SEQUENCE OF OPERATIONS

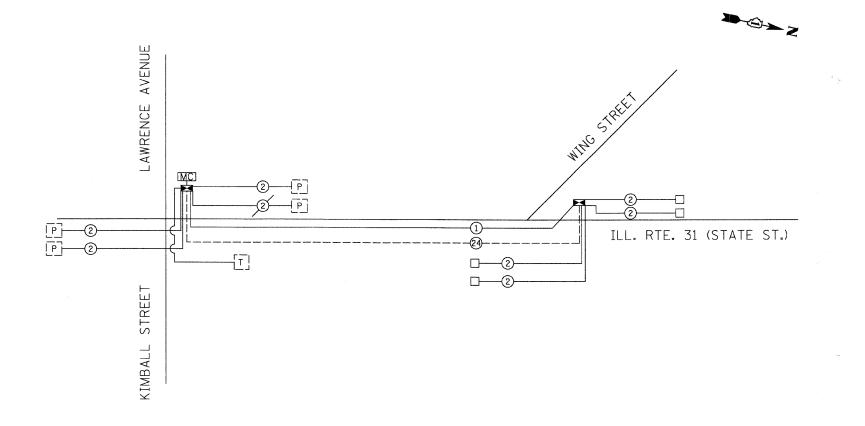
SCALE: VERT. HORIZ. NONE DATE: FEBRUARY 13, 2008

CONTRACT NO.: 83943 SECTION COUNTY 3887 96-00159-00-CH KANE TO STA.98+00.00 STA. 89+79.30 INTERCONNECT PLAN LEGEND FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT PROPOSED EXISTING CONTROLLER $\geq \leq$ HANDHOLE H H HEAVY DUTY HANDHOLE RESTORATION OF WORK AREA, RESTORATION OF THE TRAFFIC SIGNAL WORK AREA WILL BE INCIDENTAL TO THE RELATED PAY ITEM SUCH AS FOUNDATION, CONDUIT, HANDHOLE, TRENCH AND BACKFILL, ETC., AND NO EXTRA COMPENSATION WILL BE ALLOWED. ALL ROADWAY SURFACES SUCH AS SHOULDERS, MEDIANS, SIDEWALKS, PAVEMENT, ETC. SHALL BE REPLACED IN KIND. ALL DAMAGE TO MOWED LAWNS SHALL BE REPLACED WITH AN APPROVED SOD. AND ALL DAMAGE TO UNMOWED FIELDS SHALL BE SEEDED IN ACCORDANCE WITH STANDARD SPECIFICATIONS 252 AND 250 RESPECTIVELY. \square DOUBLE HANDHOLE G.S. CONDUIT IN TRENCH OR PUSHED DETECTOR LOOP U.P.R.R. SYSTEM INTERSECTION NOTE: THE TRAFFIC SIGNAL CONTROL EQUIPMENT FOR THIS PROJECT SHALL BE "EAGLE" TO MATCH THE EXISTING ADJACENT SYSTEM. UNIT DUCT COMMON TRENCH -EXISTING INTERSECTION AND PROPOSED SAMPLING SYSTEM DETECTORS -INSTALL NEW MASTER CONTROLLER. EXISTING TELEPHONE CONNECTION IN CABINET. -(12'-E-2-5") -(225'-E-2'') EXISTING INTERSECTION AND PROPOSED SAMPLING SYSTEM DETECTORS ILLINOIS ROUTE 31 (STATE ST) 113'-E-2-4' PROPOSED INTERSECTION AND SAMPLING (SYSTEM) DETECTORS METRA / MILWAUKEE DISTRICT
WEST LINE R.R. U.P.R.R. KIMBALL STREET -PROPOSED INTERSECTION AND SAMPLING (SYSTEM) DETECTORS -(118'-E-4") EXISTING WING (260'-E-2") REVISIONS NAME ILLINOIS DEPARTMENT OF TRANSPORTATION ILLINOIS ROUTE 31 AND WING STREET ILL. RTE. 31
KIMBALL ST. / LAWRENCE AVE TO WING ST.
INTERCONNECT PLAN Consulting Engineers
Timbers Professional Center
220 West River Drive, St. Charles, IL 60174
Phone - 630.584.3530 Fax - 630.584.3047 SCALE: VERT. HORIZ. 1"=50' DATE: FEBRUARY 13, 2008

ITEM	UNIT	QUANTITY
CONDUIT IN TRENCH, 2" DIA., GALVANIZED STEEL	FOOT	1096
CONDUIT PUSHED, 2" DIA., GALVANIZED STEEL	FOOT	29
HANDHOLE	EACH	1
TRENCH AND BACKFILL FOR ELECTRICAL WORK	FOOT	1096
DRILL EXISTING HANDHOLE	EACH	1
ELECTRIC CABLE IN CONDUIT, TRACER, NO. 14 1C	FOOT	1840
OPTIMIZE TRAFFIC SIGNAL SYSTEM	EACH	1
FIBER OPTIC CABLE IN CONDUIT, NO. 62.5/125, MM12F SM12F	FOOT	1866
DRILL EXISTING HANDHOLE ELECTRIC CABLE IN CONDUIT, TRACER, NO. 14 1C OPTIMIZE TRAFFIC SIGNAL SYSTEM	EACH FOOT EACH	1 1840 1

RESTORATION OF WORK AREA, RESTORATION OF THE TRAFFIC SIGNAL WORK AREA WILL BE INCIDENTAL TO THE RELATED PAY ITEM SUCH AS FOUNDATION, CONDUIT, HANDHOLE, TRENCH AND BACKFILL, ETC., AND NO EXTRA COMPENSATION WILL BE ALLOWED. ALL ROADWAY SURFACES SUCH AS SHOULDERS, MEDIANS, SIDEWALKS, PAVEMENT, ETC. SHALL BE REPLACED IN KIND. ALL DAMAGE TO MOWED LAWNS SHALL BE REPLACED WITH AN APPROVED SOD. AND ALL DAMAGE TO UNMOWED FIELDS SHALL BE SEEDED IN ACCORDANCE WITH STANDARD SPECIFICATIONS 252 AND 250 RESPECTIVELY.

NOTE: THE TRAFFIC SIGNAL CONTROL EQUIPMENT FOR THIS PROJECT SHALL BE "EAGLE" TO MATCH THE EXISTING ADJACENT SYSTEM.



SECTION CONTRACT NO.: 83943 3887 96-00159-00-CH KANE STA. TO STA.

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

EMC MC

MMC

Р

PS

ESP

ESPS

PD

INTERCONNECT SCHEMATIC LEGEND

EXISTING INTERSECTION CONTROLLER

PROPOSED INTERSECTION CONTROLLER

EXISTING MASTER CONTROLLER PROPOSED MASTER CONTROLLER

MASTER MASTER CONTROLLER

EXISTING INTERSECTION & SAMPLING (SYSTEM) DETECTORS

PROPOSED INTERSECTION & SAMPLING (SYSTEM) DETECTORS

EXISTING INTERSECTION LOOP DETECTORS PROPOSED SAMPLING (SYSTEM) DETECTORS

EXISTING SAMPLING (SYSTEM) DETECTORS

PROPOSED SAMPLING (SYSTEM) DETECTORS

EXISTING SAMPLING (SYSTEM) DETECTORS. PROPOSED INTERSECTION AND

SAMPLING (SYSTEM) DETECTORS.

EXISTING SAMPLING (SYSTEM) DETECTORS. PROPOSED SAMPLING (SYSTEM) DETECTORS. EXISTING PREFORMED INTERSECTION & SAMPLING (SYSTEM) DETECTORS

PROPOSED PREFORMED INTERSECTION & SAMPLING (SYSTEM) DETECTORS	PD
EXISTING SAMPLING (SYSTEM) PREFORMED DETECTORS	[ESPD]
PROPOSED SAMPLING (SYSTEM) PREFORMED DETECTORS	PSPD
EXISTING FIBER OPTIC CABLE IN CONDUIT, NO. 62.5/125, MM12F SM12F	
PROPOSED FIBER OPTIC CABLE IN CONDUIT, NO. 62.5/125, MM12F SM12F	
EXISTING INTERCONNECT CABLE - NO. 52.5/125 12F FIBER OPTIC CABLE	Ø
PROPOSED INTERCONNECT CABLE - NO. 62.5/125 12F FIBER OPTIC CABLE	(12)
EXISTING INTERCONNECT CABLE - NO. 18 3 PAIR TWISTED, SHIELDED	
PROPOSED INTERCONNECT CABLE - NO. 18 3 PAIR TWISTED, SHIELDED	
EXISTING LOOP DETECTOR CABLE 2/C TWISTED, SHIELDED	<u>~_</u> Ø—
PROPOSED LOOP DETECTOR CABLE 2/C TWISTED, SHIELDED	
EXISTING ELECTRIC CABLE, 1/C (AS SPECIFIED)	
PROPOSED ELECTRIC CABLE, 1/C (AS SPECIFIED)	
EXISTING TELEPHONE CONNECTION	
PROPOSED TELEPHONE CONNECTION	Т



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ILLINOIS DEPARTMENT OF TRANSPORTATION ILLINOIS ROUTE 31 AND WING STREET

INTERCONNECT SCHEMATIC

ILLINOIS ROUTE 31 (STATE STREET)
KIMBALL STREET/LAWRENCE AVENUE TO WING STREET

SCALE: VERT. HORIZ. NONE DATE: FEBRUARY 13, 2008

SECTION COUNTY 3887 96-00159-00-CH KANE 70 41 TO STA. STA. FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT

EXAMPLE, 2^{3} DENOTES $\frac{3''}{8}$

UPPER AND LOWER CASE LETTER WIDTHS

L E T		UPPER ETTERS		UPPER	E T	6 INCH CASE L	LOWER ETTERS
E T T E R S	SEF	RIES	SEI	RIES	E T E R S	SEF	RIES
R S	С	D	С	D	R S	С	D
Α	36	50	50	6 ⁵	a	3 ⁵	42
В	32	40	43	53	ь	3 ⁵	42
С	32	40	43	5 ³	C	3 ⁵	4 1
, D	32	40	43	53	d	3 ⁵	4 2
E	30	35	40	47	е	3 ⁵	42
F	30	35	40	47	f	23	26
G	32	40	43	53	g	3 ⁵	42
н	3 ²	40	43	53	h	3 ⁵	42
I	07	07	11	12	1	11	11
J	30	36	40	50	1	20	22
К	32	41	43	54	k	3 ⁵	42
L	30	35	40	47	ı	1 ¹	1 ¹
М	37	45	5 ¹	6 ¹	m	60	70
N	32	40	43	53	n	35	42
0	34	42	45	5 ⁵	0	36	43
Р	3 ²	40	43	53	P	35	42
Q	34	42	45	5 ⁵	q	3 ⁵	42
R	32	40	43	53	r	26	32
S	32	40	43	53	s	36	42
т	30	35	40	47	+	27	32
U	32	40	43	53	u	35	42
٧	35	44	47	60	v	42	4 7
W	44	52	6°	70	w	5 ⁵	6 ⁴
х	34	40	45	53	×	44	51
Y	36	50	50	66	У	46	53

NU	6 INCH	SERIES	8 INCH	SERIES
NU _{MBER}	С	D	С	D
1	12	14	15	20
2	32	40	43	53
3	3 ²	40	43	53
4	35	43	47	57
5	3 ²	40	43	5 ³
6	3 ²	40	43	53
7	32	40	43	53
8	32	40	43	53
9	3 ²	40	43	5 ³
0	34	42	45	55

40

43

53

36

z

43

REVISIONS	
NAME	DATE
D.A.Z./D.A.G.	11/90
	6/98
CADD	10/00

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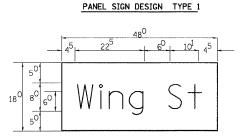
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MAST ARM MOUNTED STREET NAME SIGNS

Illinois Department of Transportation

SCALE: NONE DATE: \$\$DATE\$\$ DRAWN BY: RDB DESIGNED BY: JHE CHECKED BY: DAD

SUPPORTING CHANNELS

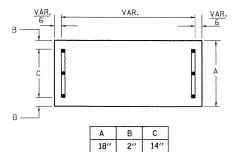


PANEL SIGN DESIGN TYPE 2

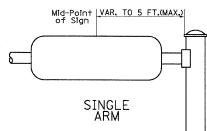
Sq. M. each 6.0 Sa. Ft. each 2 Required

Design Series D

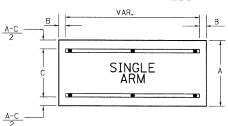
___Sq. M. each

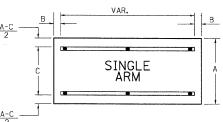


12.50 Sq. Ft. each 2 Required Design Series D



SUPPORTING CHANNELS





GENERAL NOTES

1. WHERE MAST ARM MOUNTED STREET NAME SIGNS ARE SPECIFIED, THE MAST ARM ASSEMBLY AND POLES SHALL BE DESIGNED TO SUPPORT THE LOADINGS CALLED FOR ON STANDARDS 834001, 834006 AND 834011, AS APPLICABLE, PLUS TWO (2) SIGN PANELS 2'-6" × 6'-0" MOUNTED AS SHOWN. THE DESIGN SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF THE CURRENT "STANDARD SPECIFICATIONS FOR STRUCTURAL SUPPORTS FOR HIGHWAY SIGNS,

NOTE: SIGN DIMENSIONS ARE IN ENGLISH UNITS

- 2. ALL SIGNS SHALL HAVE A WHITE REFLECTORIZED LEGEND AND BORDER ON A GREEN REFLECTORIZED BACKGROUND, TYPE A SHEETING.
- 3. THE SIGN LENGTH SHOULD BE INCREASED IN 6-INCH INCREMENTS, BUT THE OVERALL LENGTH SHOULD NOT EXCEED
- ** ALL BURDERS STARLE BY A MADE AND CONTROL OF THE SIGNED STARL BE USED FOR ALL SIGNS ATTACHED TO SIGNAL POLES AND POSTS. LOCAL SUPPLIERS OF THE SIGNED ALUMINUM CHANNEL FRAMING SYSTEM ARE:

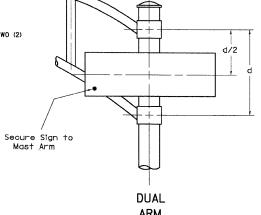
 ** A.K.T. CORPORATION ** AMERICAN FABRICATION CO.
- SCHAUMBURG, IL * TUCKER COMPANY, INC.
- CHICAGO HEIGHTS. IL
- CICERO, IL

WAUWATOSA, WI PARTS LISTING: SIGN CHANNEL

PART #HPN053 (MED. CHANNEL) 1/4" × 14 × 1" H.W.H. #3

BRACKETS

OTHER BRANDS OF MOUNTING HARDWARE ARE ACCEPTABLE, BASED UPON THE DEPARTMENT'S APPROVAL AND



SIGNFIX ALUMINUM CHANNEL FRAMING SYSTEM

18" 2" 12" 30" 2" 22"

LUMINAIRES, AND TRAFFIC SIGNALS" AS PUBLISHED BY THE AMERICAN ASSOCIATION OF STATE HIGHWAY AND TRANSPORTATION OFFICIALS FOR 80 M.P.H. WIND VELOCITY.

4. ALL BORDERS SHALL BE 3/4" WIDE AND CORNER RADIUS SHALL BE 2-1/4 ".

* WESTERN TRAFFIC CONTROL INC.

SIGN SCREWS SELF TAPPING WITH NEOPRENE WASHER PART *HPN034 (UNIVERSAL) ARM CHANNEL CLAMPS WITH STAINLESS STEEL STRAPPING Shall be used. See Note #5. COMPATIBILITY WITH THE CHANNEL/BRACKET OF THE ABOVE PRODUCT.

Number To Number Spacing Chart 8 Inch Series "C & D"

Upper Case To Lower Case

acde bhiki god mnpru

14

06

A W X

CEG

DOQR

HIM N

SERIES adhgij

† z

νу

Imnqu

bfkops 12

JU

K L

Spacing Chart 8-6 Inch Series "C & D"

SECOND LETTER

D C D C D C D C D C D C D

| 14 | 14 | 15 | 12 | 14 | 06 | 10 | 11 | 14 | 06 | 10 | 11 | 12 | 12 | 14

15 20 21 14 15 11 12 14 15 12 14 12 14 16 17

15 20 21 12 14 06 10 12 14 12 14 14 15 14 15

15 2 0 2 1 14 15 06 10 12 14 12 14 14 15 14 15

s t

15 06 10 05 06 06 10 06 10 06 10 11 12

 $| 1^5 | 1^2 | 1^4 | 0^5 | 0^6 | 1^1 | 1^2 | 1^1 | 1^2 | 1^2 | 1^4 | 1^2 | 1^4$ 17 | 12 | 14 | 06 | 10 | 12 | 14 | 12 | 14 | 12 | 14 | 12 | 14

15 | 11 | 12 | 06 | 10 | 12 | 14 | 12 | 14 | 12 | 14 | 12 | 14

06 | 14 | 15 | 06 | 10 | 05 | 06 | 05 | 07 | 05 | 06 | 06 | 10 | 11 | 12

17 22 24 16 17 12 14 16 17 16 17 16 17 20 21

SECOND LETTER

DCDCDCDCDCDCD

17 11 12 05 06 11 12 11 12 12

15 11 12 05 06 06 10 06 10 11

s t

17 12 14 06 10 12 14 12 14 12 14 12 14

14 | 06 | 10 | 03 | 03 | 05 | 06 | 05 | 06 | 06 | 10 | 06 | 10

17 12 14 06 10 11 12 11 12 12 14 12 14

15 11 12 05 06 11 12 11 12 11 12 12 14

×

νу

Lower Case To Lower Case

24

acde bhikl goq mnpru

12 | 14

12 14

11

Spacing Chart 6 Inch Series "C & D"

22 24 20 21 14 15 16 17 16 17 20 21 20 21

20 21 16 17 14 15 16 17 16 17 16 17 20 21

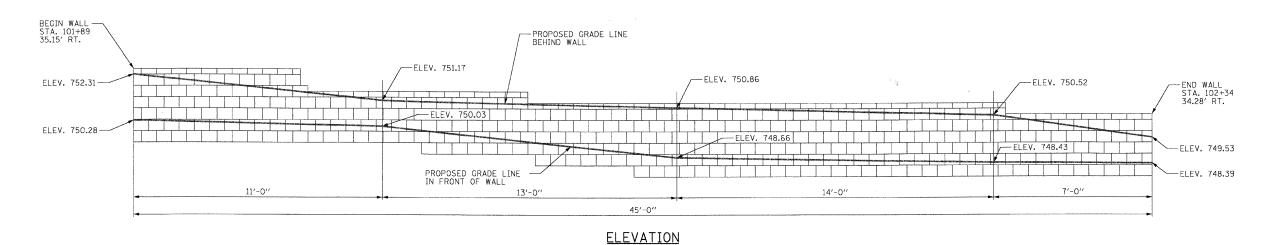
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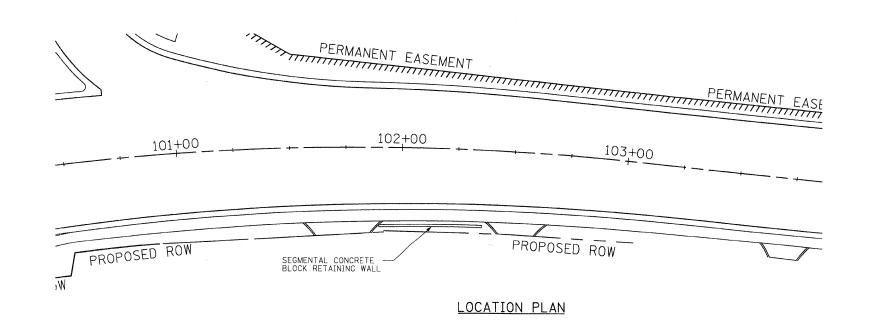
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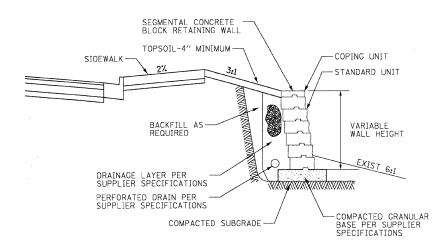
												SE	CO	ND	NU	МВ	ER							
					()		1	2	2	3	3	4	4	5	5	6	5	-	7	8	3	9	9
1		SE	RII	ES	С	D	С	D	С	D	С	D	С	D	С	D	С	D	С	ם	С	D	С	D
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	Ť	2	3	4	14	1 ⁵	14	1 ⁵	14	15	12	14	12	14	14	15	14	1 ⁵	1 ¹	1 ²	16	17	14	1 ⁵
	N U	5			14	1 ⁵	14	1 ⁵	14	15	1 ¹	12	1 ¹	12	14	1 ⁵	14	1 ⁵	1 ¹	1 ²	14	15	14	15
	M B	6			16	17	14	15	14	1 ⁵	1 ²	15	1 ²	14	14	1 ⁵	14	1 ⁵	1 ¹	1 ²	14	1 ⁵	14	1 ⁵
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3943	F.A.U. RTE.	SECTION	C	OUNT	′	TOTAL SHEETS	SHEET NO.
	3887	96-00159-00-CH	Ī	KANE	Ξ	70	42
	STA	•	TO	STA.			
	FED.	ROAD DIST. NO. ILL	INOIS	FED.	AID	PROJECT	



NOTE: AREA OF SEGMENTAL CONCRETE BLOCK RETAINING WALL EQUAL TO 133 SQ. FT.





NOTE: THE DESIGN OF THE SEGMENTAL CONCRETE BLOCK RETAINING WALL SYSTEM SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. FOR THE SPECIFIC REQUIREMENTS, REFER TO THE SEGMENTAL CONCRETE BLOCK RETAINING WALL SPECIAL PROVISION.

TYPICAL SECTION SEGMENTAL CONCRETE BLOCK RETAINING WALL

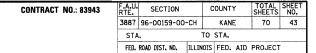
RHAEA	
Robert H. Anderson & Associates, Inc. Consulting Engineers Timbers Professional Center 220 West River Drive, St. Charles, IL. 60174 Phone - 630.584.3530 Fax - 630.584.3047	

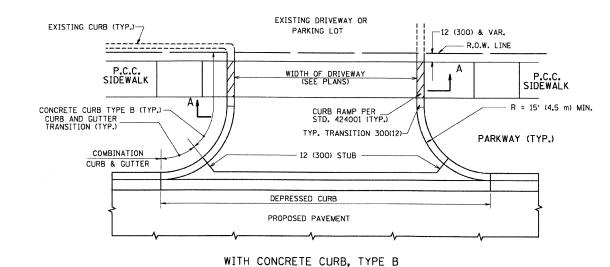
ILLINOIS	DE	PARTME	NT	OF	TRANS	PORTATIO
ILLINO	IS	ROUTE	31	AND	WING	STREET

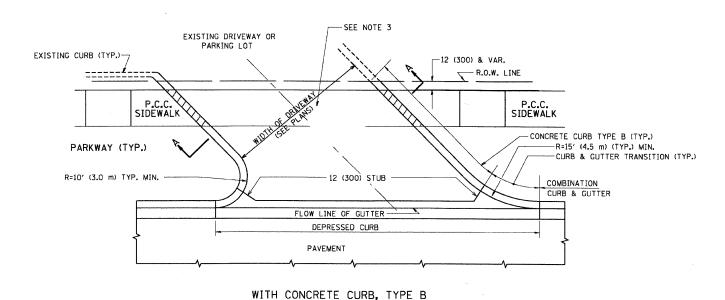
RETAINING WALL DETAILS

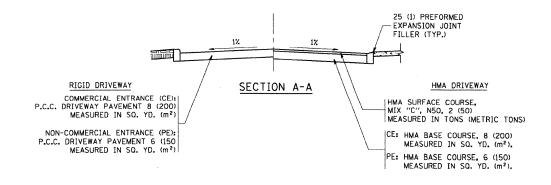
SCALE: VERT.
HORIZ. NONE
DATE: FEBRUARY 13, 2008

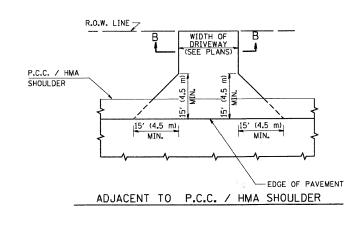
DRAWN BY: TC DESIGN BY: TC CHECKED BY: BPT

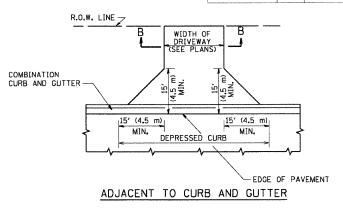


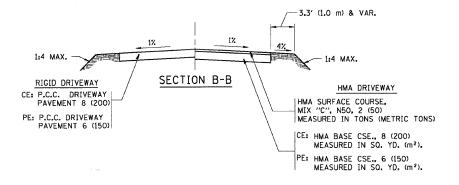












RURAL FIELD ENTRANCE (FE) HMA SURFACE COURSE.

MIX "C", N50, 2 (50) MEASURED IN TONS (METRIC TONS)

AGGREGATE BASE CSE., TYPE A 8 (200) MEASURED IN SQ. YD. (m²).

GENERAL NOTES:

DRIVEWAY SLOPES, LOCATIONS, & GEOMETRIC LAYOUT SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE "HANDBOOK FOR POLICY ON PERMITS FOR ACCESS DRIVEWAYS TO STATE HIGHWAYS". FOR FURTHER LAYOUT REQUIREMENTS, REFER TO ILLUSTRATIONS IN THE PERMIT HANDBOOK. DRIVEWAYS SHALL BE REPLACED IN KIND, UNLESS OTHERWISE NOTED ON THE PLANS.

COMMERCIAL DRIVEWAYS SHALL BE CONSTRUCTED WITH CONCRETE CURB, TYPE B RETURNS EXCEPT WHEN THE SIDEWALK EDGE IS 4 FEET (1.2 METERS) OR LESS FROM THE BACK OF CURB, CONSTRUCT A FLARE DRIVEWAY WITHOUT CURB.

THE RESIDENT ENGINEER SHALL CONTACT THE TRAFFIC PERMIT OFFICE AT 847/ 705-4131 FOR ANY QUESTIONS ON DRIVEWAYS SHOWN IN THE PLANS; SPECIFICALLY IN REFERENCE TO ADDITIONAL AND/OR RELOCATION/REMOVAL OF A DRIVEWAY.

COMBINATION CONCRETE CURB & GUTTER SHALL BE MEASURED STRAIGHT ACROSS THE DRIVEWAY. NO ADDITIONAL COMPENSATION WILL BE ALLOWED FOR THE CURB & GUTTER TRANSITION.

1 (25) PREFORMED EXPANSION JOINT FILLER WILL NOT BE PAID SEPARATELY, BUT SHALL BE CONSIDERED INCLUDED IN THE COST OF THE P.C.C. DRIVEWAY PAVEMENT OR P.C.C. SIDEWALK.

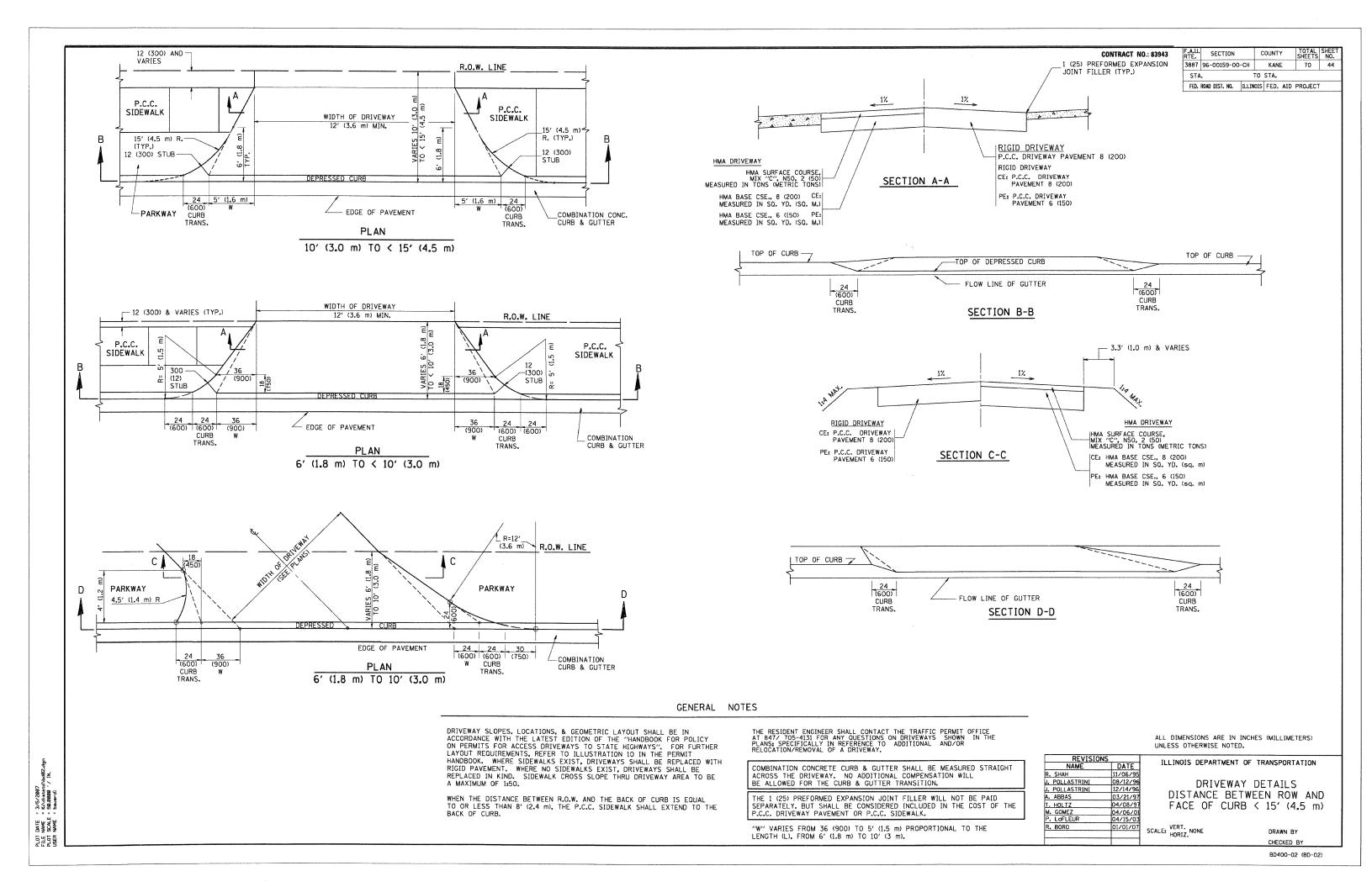
WHEN THE P.C.C. SIDEWALK EXTENDS THROUGH THE DRIVEWAY, THE THICKNESS OF THE SIDEWALK IN THE DRIVEWAY AREA SHALL BE THE SAME AS THE DRIVEWAY THICKNESS. SIDEWALK WILL BE PAID FOR AS P.C.C. SIDEWALK OF THE THICKNESS SPECIFIED. SIDEWALK CROSS SLOPE THRU DRIVEWAY AREA TO BE A MAXIMUM OF 1:50. ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE NOTED

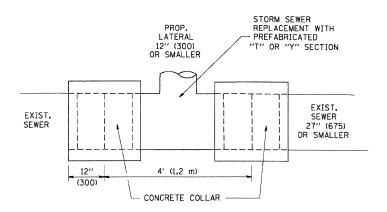
REVISIONS	5	THE THOSE DEPARTM	ENT OF TRANSPORTATION
NAME	DATE	ILLINOIS DEPARTM	ENT OF TRANSPORTATION
R. SHAH	11-04-95	DDIVEW	AY DETAILS
J. POLLASTRINI	08-12-96		
J. POLLASTRINI	12-14-96	DISTANCE BE	TWEEN R.O.W. AND
A. ABBAS	03-21-97	EVCE UE C	URB & EDGE OF
T. HOLTZ	04-08-97		
M. GOMEZ	04-06-01	SHOULDER	>= 15' (4.5 m)
P. LaFLEUR	04-15-03		
R. BORO	01-01-07	SCALE: VERT. NONE	DD LINE DA
		SCALE: HOOLT NOINE	DRAWN BY

BD0156-07 (BD-01)

CHECKED BY

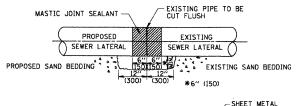
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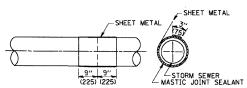


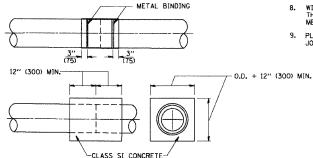


DETAIL "A"

LATERAL CONNECTION TO EXISTING SEWER
OF 27" (675) OR SMALLER







<u>DETAIL "B"</u> CLASS SI CONCRETE COLLAR

3. BUTT THE PIPES TOGETHER LEAVING A MINIMUM OF 12' x 6' (300 x 150) DEEP EXCAVATION UNDER AND AROUND EACH PIPE END. 4. CUT A PIECE OF SHEET METAL CAGE NO. 19 1.1 (0.0418) 18" (450) WIDE BY THE OUTSIDE CIRCUMFERANCE OF THE PIPE PLUS 3" (75) LONG. 5. WRAP THE SHEET METAL AROUND THE PIPES.

 WRAP THE SHEET METAL AROUND THE PIPES, 9" (225) ON EACH SIDE OF THE JOINT, STARTING AT THE TOP OF THE PIPE.

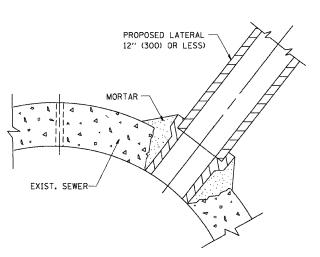
CUT THE EXISTING END OF THE PIPE SO AS TO PRESENT A FLUSH BUTT JOINT. BRUSH AND CLEAN ALL PIPES.

2. APPLY THE MASTIC JOINT SEALANT TO THE FIRST 6" (150) OF EACH PIPE.

 LAP THE SHEET METAL AT LEAST 3" (75) AT THE TOP OF THE PIPE AND PLACE THE MASTIC JOINT SEALANT BETWEEN THE LAP.

CONSTRUCTION SEQUENCE

- PLACE TWO METAL BANDS AROUND THE SHEET METAL AND TIGHTEN.
- 8. WIPE OFF ANY EXCESS MASTIC JOINT SEALANT THAT OOZES OUT FROM BETWEEN THE SHEET METAL AND THE PIPES.
- 9. PLACE CLASS SI CONCRETE AROUND THE JOINT.



DETAIL "C"

PROPOSED LATERAL

CONNECTION TO EXISTING SEWER

OF 30" (750) OR LARGER

NOTES

MATERIA

MATERIAL USED FOR THE TEE OR WYE SECTION SHALL BE COMPATIBLE WITH THE EXISTING STORM SEWER OR THE PROPOSED STORM SEWER.

CONSTRUCTION METHODS

- THIS WORK SHALL BE CONSTRUCTED IN CONFORMANCE WITH THE APPLICABLE PORTIONS
 OF SECTION 550 OF THE STANDARD SPECIFICATIONS.
- II. CONNECTION TO AN EXISTING STORM SEWER SHALL BE BY EITHER OF THE FOLLOWING METHODS: A) PROPOSED STORM SEWER CONNECTION TO EXISTING SEWER OF 27" (675) OR SMALLER SEE DETAIL "A" AND "B".
 - B) PROPOSED STORM SEWER CONNECTION TO EXISTING SEWER OF 30" (750) OR LARGER SEE DETAIL "C".

IF THE EXISTING SEWER PIPE IS CRACKED, BROKEN OR OTHERWISE DAMAGED BY THE CONTRACTOR IN MAKING THE CIRCULAR OPENING, THE CONTRACTOR SHALL REPLACE THAT SECTION OF PIPE WITH PIPE EQUAL AND SIMILAR IN ALL RESPECTS TO THE PIE IN THE EXISTING SEWER, IN A CAREFUL WORKMANLIKE MANNER, WITHOUT EXTRA COMPENSATION.

GENERAL

CARE MUST BE TAKEN TO PREVENT DEBRIS FROM ENTERING THE SEWER.
ALL DEBRIS WHICH ENTERS THE SEWER MUST BE REMOVED, THE SEWER MUST
BE LEFT CLEAN AND UNOBSTRUCTED UPON COMPLETION OF THE CONTRACT.

CARE MUST BE TAKEN TO PREVENT ANY PART OF THE NEW PIPE CONNECTION FROM PROJECTING INTO THE EXISTING SEWER.

BASIS OF PAYMENT

TEE OR WYE CONNECTIONS SHALL BE PAID FOR AT THE CONTRACT UNIT PRICE EACH FOR STORM SEWER TEE OR WYE OF THE TYPE AND SIZE SPECIFIED IN THE PLANS, THIS PRICE SHALL INCLUDE ALL EXCAVATION OF THE TRENCH, REMOVAL OF THE EXISTING STORM SEWER, FURNISHING AND INSTALLING THE SPECIFIED TEE OR WYE SECTION, FURNISHING AND INSTALLING THE REQUIRED CONCRETE COLLAR, AND ALL OTHER MATERIAL NECESSARY TO COMPLETE THIS WORK AS SHOWN AND SPECIFIED.

REMOVAL AND REINSTALLATION OF EXISTING STORM SEWER ADJACENT TO THE PROPOSED TEE OR WYE SECTION, FOR THE PURPOSE OF FACILITATING THE INSTALLATION OF THE TEE OR WYE SECTION, WILL NOT BE PAID FOR SEPARATELY BUT SHALL BE INCLUDED IN THE UNIT PRICE BID FOR THE WORK.

TRENCH BACKFILL, EXCAVATION IN ROCK AND REMOVAL AND REPLACEMENT OF UNSUITABLE MATERIAL BELOW PLAN BEDDING GRADE WILL BE PAID FOR SEPARATELY.

CONCRETE COLLAR FOR CONNECTING A PROPOSED STORM SEWER TO AN EXISTING STORM SEWER WILL NOT BE PAID PAID FOR SEPARATELY BUT SHALL BE INCLUDED IN THE COST OF THE PROPOSED STORM SEWER.

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

REVISIO		
NAME	DATE	
M. DE YONG	07/25/90	
M. DE YONG	02/05/92	
M. DE YONG	05/08/92	
R. SHAH	09/09/94	
R. SHAH	10/25/94	
R. SHAH	06/12/96	
		:

ILLINOIS DEPARTMENT OF TRANSPORTATION

DETAIL OF STORM SEWER CONNECTION TO EXISTING SEWER

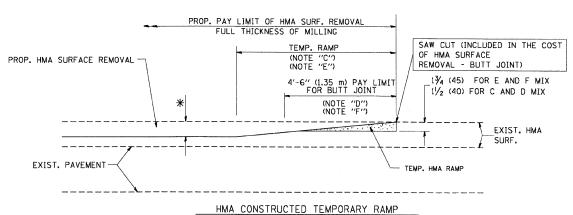
SCALE: VERT. NONE

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BD500-01 (BD-7)

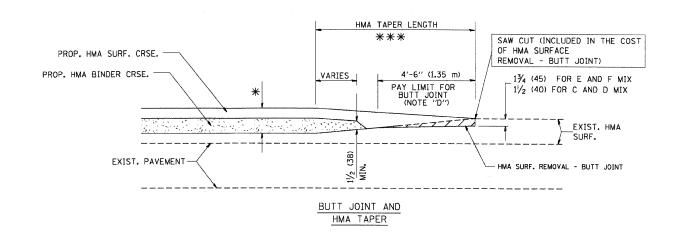
PLOT DATE = 3/5/2007 FILE NAME = K1/distatd\bd07.dgn PLOT SCALE = 50.000 '/ IN, USER NAME = bouordl

PROP. PAY LIMIT OF HMA SURF. REMOVAL FULL THICKNESS OF MILLING TEMP. RAMP (NOTE "E") PROP. HMA SURFACE REMOVAL EXIST. PAVEMENT EXIST, HMA MILLED TEMPORARY RAMP (FOR BUTT JOINT AND HMA TAPER SEE DETAIL BELOW) OPTION 1



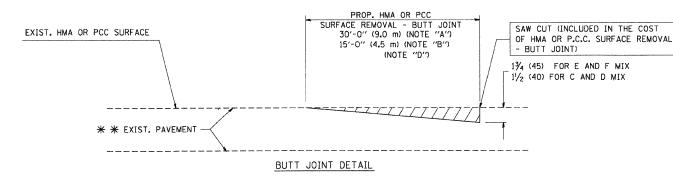
(FOR BUTT JOINT AND HMA TAPER SEE DETAIL BELOW)

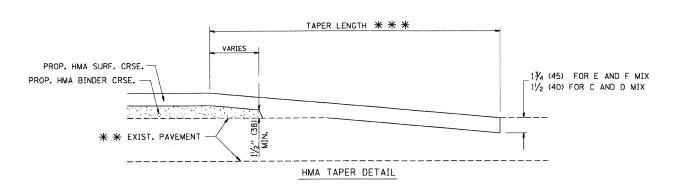
OPTION 2 TYPICAL TEMPORARY RAMP



TYPICAL BUTT JOINT AND HMA TAPER FOR MILLING AND RESURFACING

RTE. SECTION CONTRACT NO.: 83943 COUNTY 3887 96-00159-00-CH KANE TO STA. FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT





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")

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

BASIS OF PAYMENT:

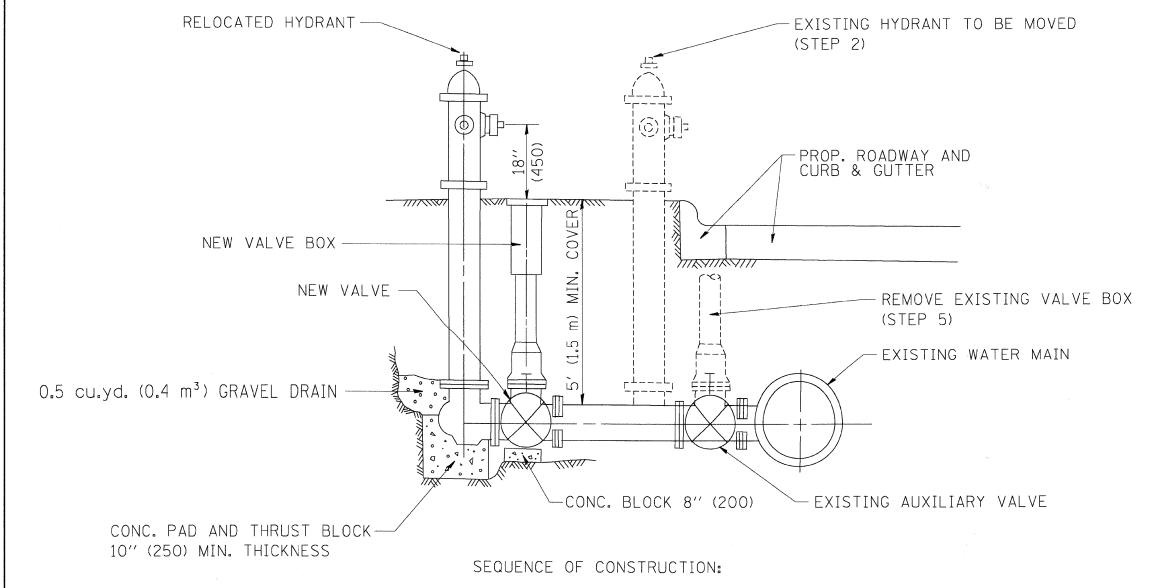
THE BUTT JOINT WILL BE PAID FOR AT THE CONTRACT UNIT PRICE PER SOUARE YARD (SOUARE METER) FOR "HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT" OR FOR "PORTLAND CEMENT CONCRETE SURFACE REMOVAL- BUTT JOINT".

REVISIO	
NAME	DATE
M. DE YONG	6-13-90
M. DE YONG	7-3-90
M. DE YONG	3-27-92
R. SHAH	09/09/94
R. SHAH	10/25/94
A. ABBAS	03/21/97
M. GOMEZ	04/06/0
R. BORO	01/01/07

ILLINOIS DEPARTMENT OF TRANSPORTATION

BUTT JOINT AND HMA TAPER DETAILS

CHECKED BY BD400-05 (VI=BD32)



- 1. CLOSE EXISTING VALVE.
- 2. REMOVE EXISTING HYDRANT.
- 3. INSTALL HYDRANT EXTENSION AND NEW VALVE.
- 4. RELOCATE EXISTING HYDRANT.
- 5. OPEN EXISTING VALVE, REMOVE BOX.
- 6. BACKFILL.
- 7. FLUSH AND TEST FOR CHLORIDE RESIDUAL AND PROVIDE TEST.

ALL WORK TO BE DONE IN ACCORDANCE WITH ARTICLE 564 OF THE STANDARD SPECIFICATIONS. NEW VALVE AND BOX SHALL BE SAME MAKE AND MODEL AS EXISTING.

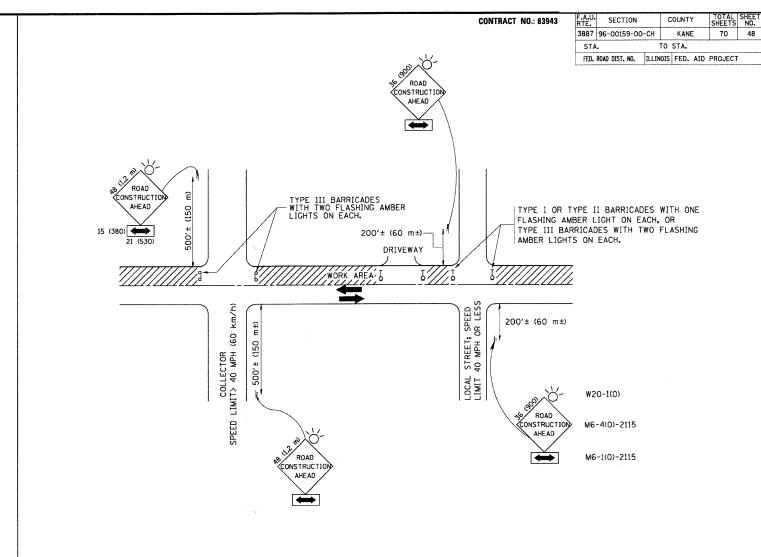
FIRE HYDRANT TO BE MOVED

ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS

REVISIO	ONS	ILLINOIS DEPARTMEN	IT OF TRANSPORTATION
NAME	DATE	ILLINOIS DEFARIMEN	I OF TRANSPORTATION
R. SHAH	09/09/94		
R. SHAH	10/25/94		
		FIRE	HYDRANT
		TO BE	MOVED
			1,10120
		SCALE: VERT. NONE	DRAWN BY
		HORIZ.	DRAWN BT
			CHECKED BY
			DDEOO 02 (DD 3

01 DATE = 3/5/2007 LE NAME = Kr\distard\bd36.dgn 01 SCALE = 50.0000 // IN ER NAME = bauerdl

BD500-03 (BD-36)



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:
- a) one road construction ahead sign 36 \times 36 (900 \times 900) 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:
- a) 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 ROUTE.
- b) THE CLOSED PORTION OF THE MAIN ROUTE SHALL BE PROTECTED BY BLOCKING WITH TYPE III BARRICADES, 1/2 OF THE CROSS SECTION OF THE CLOSED PORTION.
- 3. WHEN THE SIDE ROAD LIES BETWEEN THE BEGINNING OF THE MAINLINE SIGNING AND THE WORK ZONE, A SINGLE HEADED ARROW (M6-1) SHALL BE USED IN LIEU OF THE DOUBLE HEADED ARROW (M6-4).

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

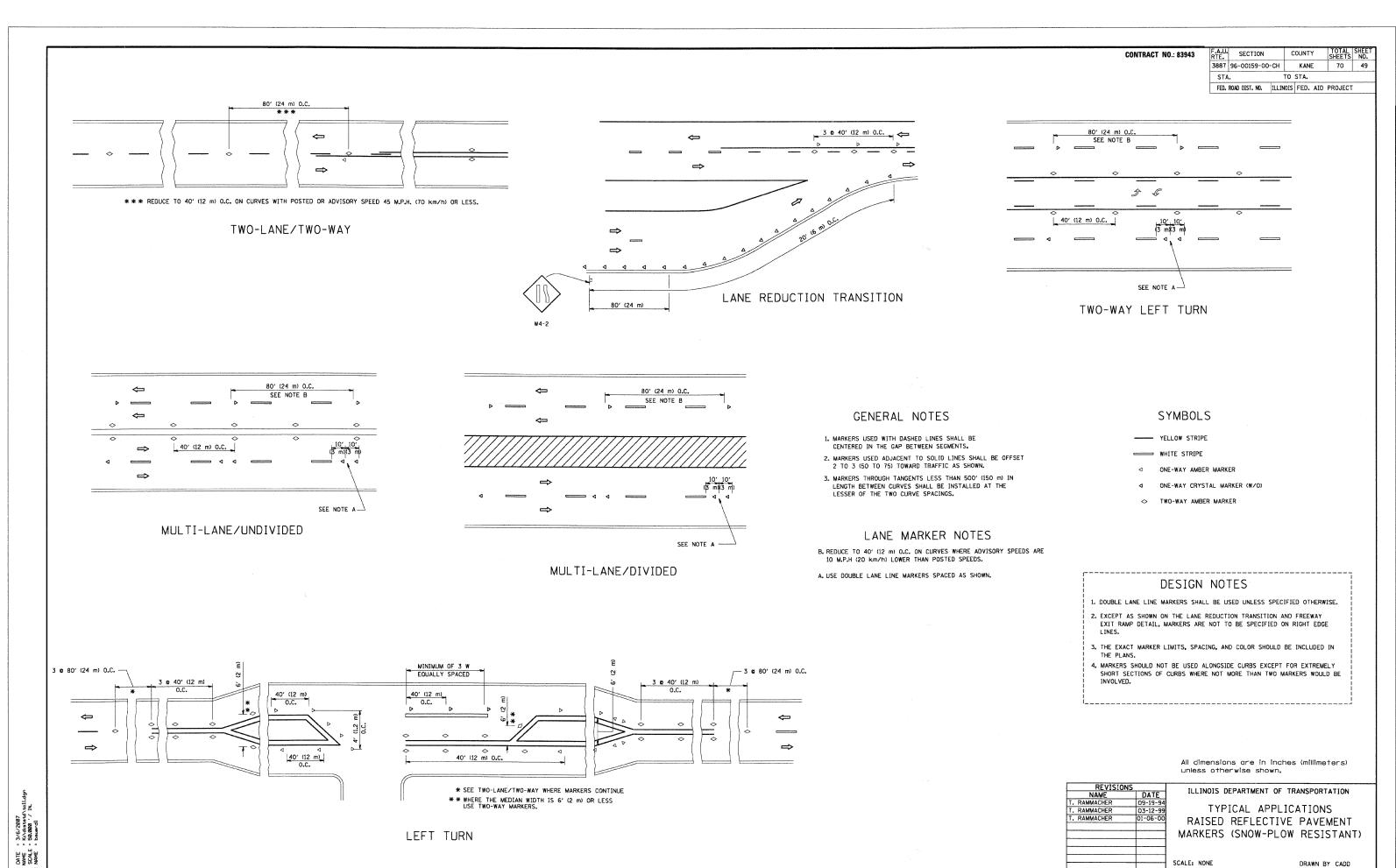
All dimensions are in millimeters (inches) unless otherwise shown.

	VS.	REVISIO
Ì '	DATE	NAME
TRA	6/89	LHA
''''	09/08/94	T. RAMMACHER
	10/18/95	J. OBERLE
SI	03/06/96	A. HOUSEH
21	10/15/96	A. HOUSEH
	01/06/00	T. RAMMACHER
SCAL		
JUALI		

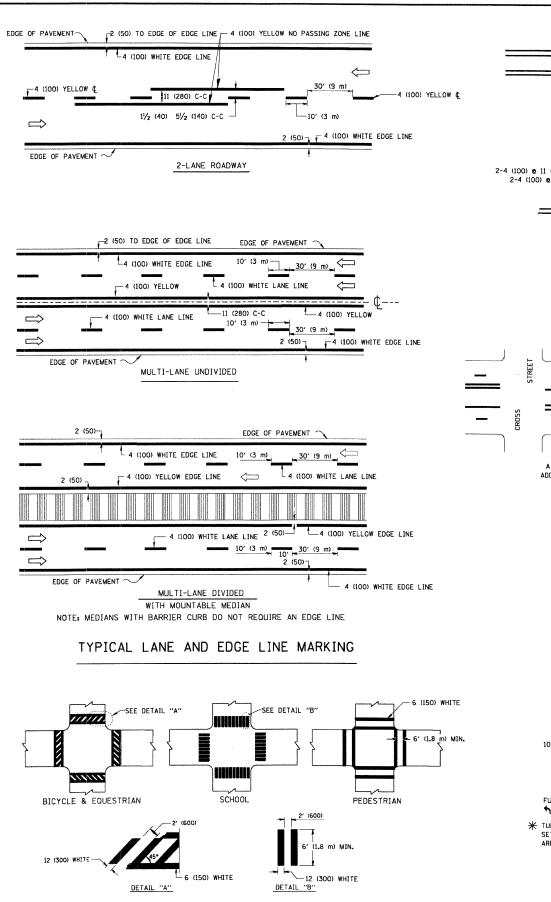
ILLINOIS DEPARTMENT OF TRANSPORTATION AFFIC CONTROL AND PROTECTION FOR DE ROADS, INTERSECTIONS, AND DRIVEWAYS

LE: NONE

DRAWN BY CHECKED BY TC-10



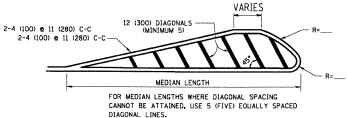
CHECKED BY



TYPICAL CROSSWALK MARKING

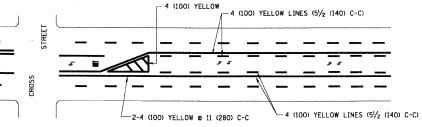
2-4 (100) YELLOW @ 11 (280) C-C-4' (1.2 m) OUTSIDE TO NO DIAGONALS OUTSIDE OF LINES - 2-4 (100) YELLOW @ 11 (280) C-C

4' (1.2 m) WIDE MEDIANS ONLY

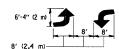


DIAGONAL LINE SPACING: 50' (15 m) C-C (LESS THAN 30MPH (50 km/h)) 75' (25 m) C-C 30MPH (50 km/h) TO 45MPH (70 km/h)) 150' (45 m) C-C (MORE THAN 45MPH (70 km/h))

MEDIANS OVER 4' (1.2 m) WIDE

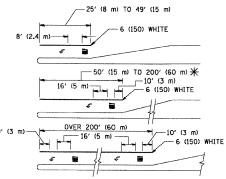


A MINIMUM OF TWO PAIRS OF TURN ARROWS SHALL BE USED, WHITE IN COLOR. ADDITIONAL PAIRS SHALL BE PLACED AT 200' (60 m) TO 300' (90 m) INTERVALS.



MEDIAN WITH TWO-WAY LEFT TURN LANE

TYPICAL PAINTED MEDIAN MARKING

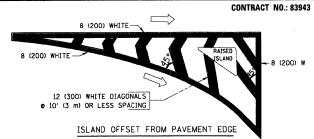


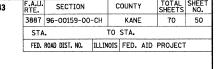
FULL SIZE LETTERS 8' (2.4 m) AND ARROWS SHALL BE USED. AREA = 15.6 SO. FT. (1.5 m²) (1) AREA = 20.8 SO. FT. (1.9 m²)

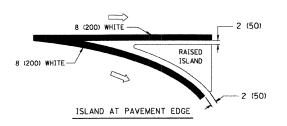
 \divideontimes TURN LANES IN EXCESS OF 400' (120 m) IN LENGTH MAY HAVE AN ADDITIONAL SET OF ARROW - "ONLY" INSTALLED MIDWAY BETWEEN THE OTHER TWO SETS OF ARROW - "ONLY".

TYPICAL LEFT (OR RIGHT) TURN LANE

TYPICAL TURN LANE MARKING







TYPICAL ISLAND MARKING

TYPE OF MARKING	WIDTH OF LINE	DATTERN	COLOR	SPACING / REMARKS
TYPE OF MARKING	4 (100)	PATTERN SKIP-DASH	YELLOW	10' (3 m) LINE WITH 30' (9 m) SPACE
CENTERLINE ON 2 LANE PAVEMENT				
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	5½ (140) C-C FROM SKIP-DASH CENTERLINE 11 1280) 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 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; 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' (600) APART 5EE TYPICAL CROSSWALK MARKING DETAILS.
STOP LINES	24 (600)	SOLID	WHITE	PLACE 4' (1.2 m) IN ADVANCE OF AND PARALLEL TO CROSSMALN, 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
	NO DIAGONALS USED FOR 4' (1.2 m) WIDE MEDIANS		WHITE: ONE WAY TRAFFIC	SEE TYPICAL PAINTED MEDIAN MARKING.
GORE MARKING AND CHANNELIZING LINES	8 (200) WITH 12 (300) DIAGONALS & 45°	SOLID	WHITE	DIACONALS: 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 SO. FT. (0.33 m ²) EACH "X"-54.0 SO. FT. (5.0 m ²)
SHOULDER DIAGONALS	12 (300) e 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 (0VER 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.

T. RAMMACHER 10-09-96 10-17-96 ALEX HOUSEH ALEX HOUSEH
T. RAMMACHER

ILLINOIS DEPARTMENT OF TRANSPORTATION DISTRICT ONE

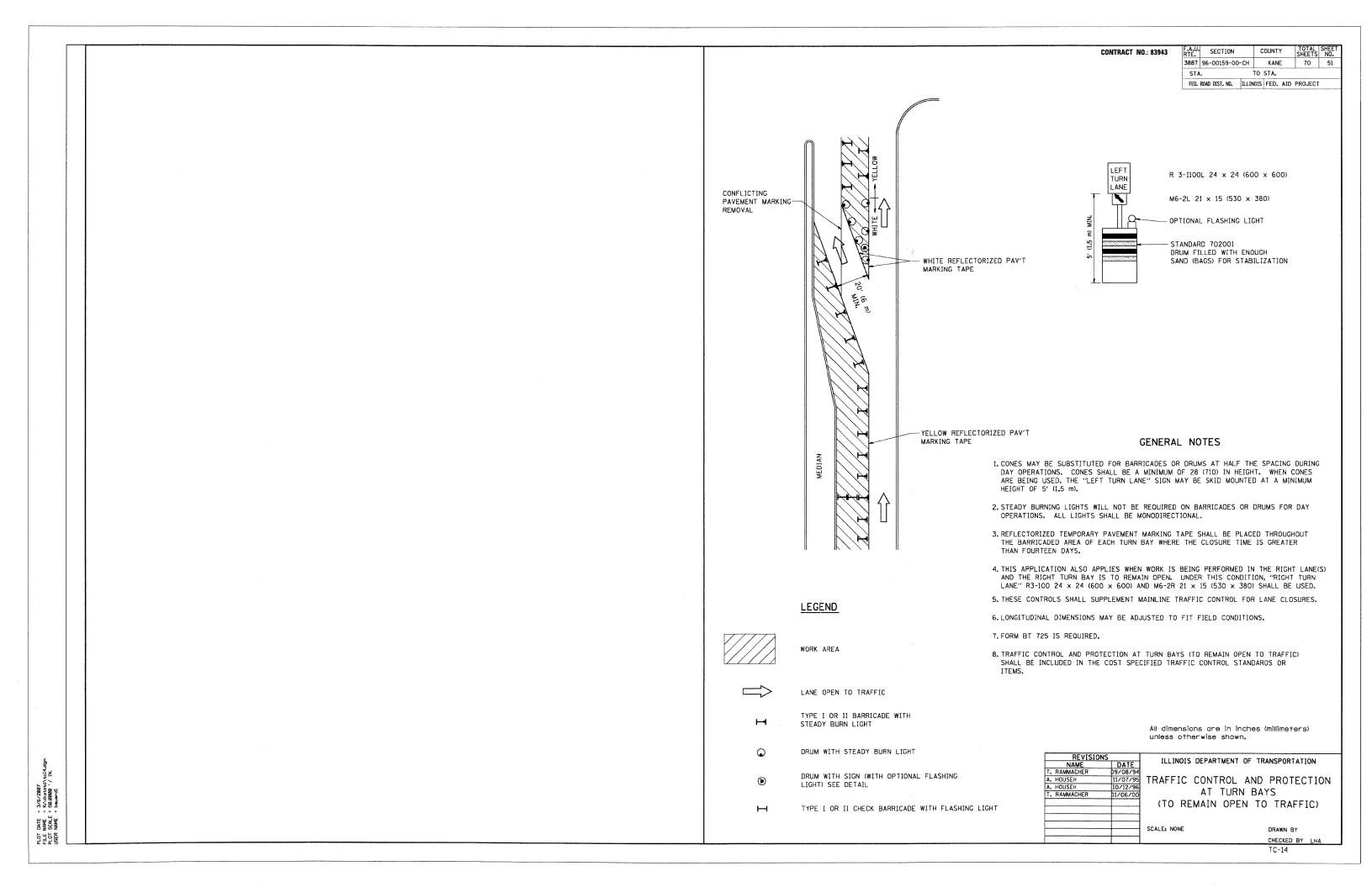
TYPICAL PAVEMENT MARKINGS

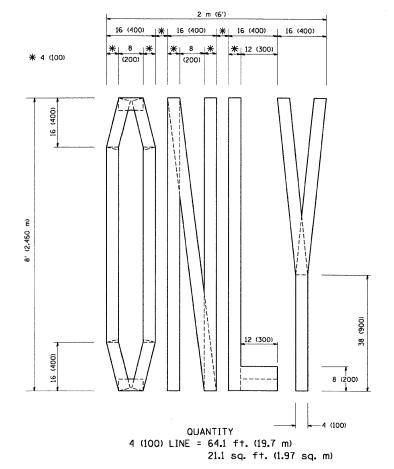
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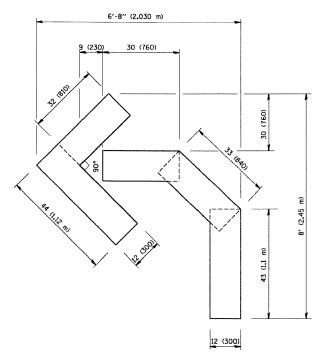
DRAWN BY CADD CHECKED BY

TC-13

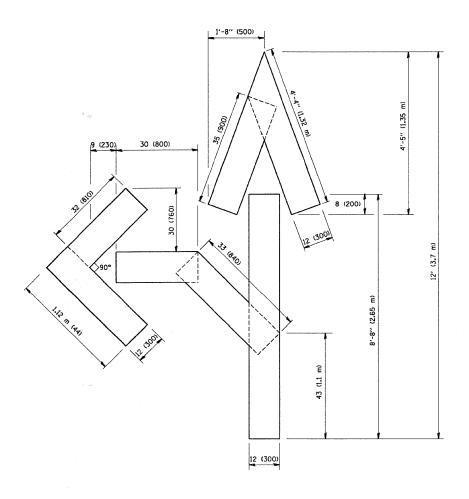
DATE NAME SCALE NAME PLOT PLOT USER







QUANTITY 4 (100) LINE = 45.5 ft. (13.9 m) 15.2 sq. ft. (1.39 sq. m)



QUANTITY 4 (100) LINE = 82.5 ft. (25.3 m) 27.5 sq. ft. (2.53 sq. m)

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

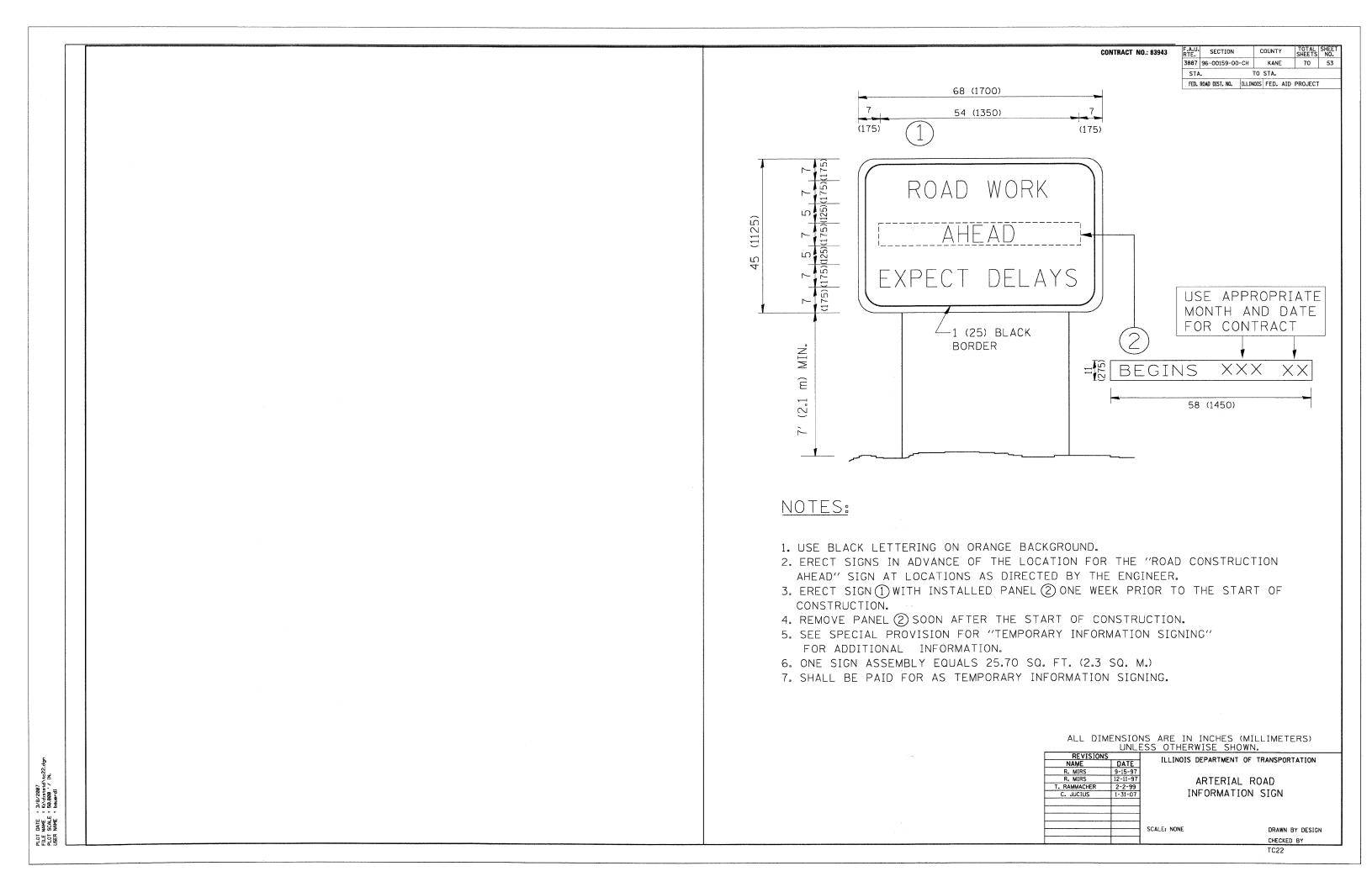
REVISIO	NS
NAME	DATE
T. RAMMACHER	09/18/94
J. OBERLE	06/01/96
T. RAMMACHER	06/05/96
T. RAMMACHER	11/04/97
T. RAMMACHER	03/02/98
E. GOMEZ	08/28/00

ILLINOIS DEPARTMENT OF TRANSPORTATION

PAVEMENT MARKING LETTERS AND SYMBOLS FOR TRAFFIC STAGING

SCALE: NONE

DRAWN BY CADD CHECKED BY TC-16





3.0" RADIUS, 0.5" BORDER, WHITE ON GREEN; REFLECTORIZED "DRIVEWAY" D; "ENTRANCE" D; STANDARD ARROW CUSTOM 12.0" x 5.0"

NOTES:

- 1. HALF OF THE SIGNS WILL REQUIRE A LEFT HAND FACING ARROW.
- 2. TWO SIGNS SHALL BE USED AT EACH COMMERCIAL ENTRANCE PLACED BACK-TO-BACK: ONE WITH A RIGHT HAND ARROW (SHOWN) SHALL BE PLACED ON THE NEAR RIGHT SIDE THE DRIVEWAY AND ONE WITH A LEFT HAND ARROW SHALL BE PLACED ON THE FAR LEFT SIDE OF THE DRIVEWAY.
- 3. SIGNS TO BE PAID FOR AS ITEM "TEMPORARY INFORMATION SIGNING".

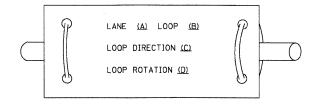
REVISIONS		ILLINOIS DEPARTMENT OF TRANSPORTATIO
NAME	DATE	ILLINOIS DEFARIMENT OF TRANSPORTATIO
JCIUS	02/15/07	
		DRIVEWAY ENTRANCE
		SIGNING
	1 1	

SCALE: NONE

DRAWN BY R.H.
CHECKED BY
TC-26

- 1. EACH PAIR OF LOOP WIRES SHALL BE PLACED IN A SEPARATE UNIT DUCT FROM THE EDGE OF PAVEMENT TO THE HANDHOLE. SPACING BETWEEN THE HOLES DRILLED IN THE PAVEMENT SHALL NOT BE LESS THAN 6" (150 mm). UNIT DUCT SHALL BE INCLUDED IN THE COST OF THE LOOP WIRE.
- 2. THE NUMBER OF LOOP TURNS SHALL BE AS RECOMMENDED BY THE AMPLIFIER MANUFACTURER. ALL ADJACENT SIDES OF THE LOOPS SHALL BE INSTALLED IN SUCH A WAY THAT THE CURRENT FLOW IS IN THE SAME DIRECTION TO REINFORCE ITS MAGNETIC FIELDS FOR SMALL VEHICLE
- 3. EACH LOOP LEAD-IN SHALL BE IDENTIFIED AND PERMANENTLY TAGGED IN THE HANDHOLE. EACH LEAD-IN CABLE TAG SHALL INDICATE THE LOCATION OF THE LOOP, LOOP ROTATION (CLOCKWISE/COUNTERCLOCKWISE), LOOP LEAD-IN DIRECTION (IN OR OUT), LOOP CABLE NUMBER AND LOCATION IN CABINET, AND NUMBER OF TURNS IN THE DETECTOR LOOPS IN WATER PROOF INK AS INDICATED ON THE DISTRICT 1 STANDARD TRAFFIC SIGNAL DESIGN DETAIL. THE CONTRACTOR SHALL MARK LOOP LOCATIONS ON RECORD DRAWINGS AND PRESENT TO THE ENGINEER AFTER FINAL INSPECTION. LOOPS SHALL BE MARKED BY LANE AND LOOP NUMBER. SEE DETAIL BELOW.
- 4. ALL LOOP CABLE SHALL BE FASTENED WITH PLASTIC TIE WRAP TO THE HANDHOLE HOOKS.
- 5. IN ASPHALT PAVEMENT, LOOPS SHOULD BE PLACED IN THE BINDER AND DIVEHOLES MARKED AT THE CURB WITH A SAW-CUT. THE SAW-CUT SHALL BE CUT IN ACCORDANCE WITH LOCAL AND E.P.A. DUST CONTROL REQUIREMENTS. DETECTOR LOOP(S) SHALL NOT BE INSTALLED IN WET CONDITIONS AND THE SAW-CUTS MUST BE FREE OF DEBRIS AND RESIDUE SUCH AS DUST AND WATER WHICH IS TO BE ACHIEVED BY THE USE OF COMPRESSED AIR, WIRE BRUSHING AND HEAT DRYING ACCORDING TO SEALANT MANUFACTURER REQUIREMENTS. THE DETECTOR WIRE SHALL BE HELD IN PLACE BY THE USE OF FORM WEDGES. WEDGES SHALL BE SPACED NO MORE THAN 18" (450 mm) APART.
- 6. LOOP SPLICES SHALL BE SOLDERED USING A SOLDERING IRON. BLOW TORCHES OR OTHER DEVICES WHICH OXIDIZE COPPER CABLE SHALL NOT BE ALLOWED FOR SOLDERING OPERATIONS. SEE DETAIL BELOW RIGHT.
- 7. PREFORMED DETECTOR LOOPS SHALL BE USED, AS SHOWN ON THE PLANS, WHERE NEW CONCRETE PAVEMENT IS PROPOSED. THE INSTALLATION OF PREFORMED LOOPS SHALL BE IN ACCORDANCE WITH THE DISTRICT 1 SPECIFICATIONS OR AS DIRECTED BY THE ENGINEER.

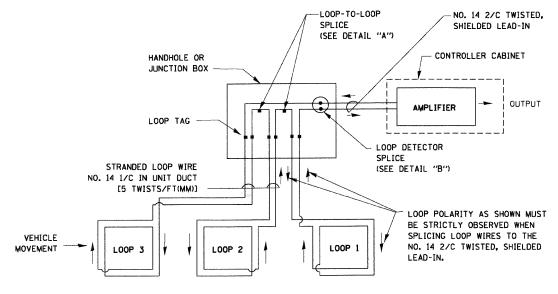
LOOP LEAD-IN CABLE TAG



- A. LANE 1 IS THE LANE CLOSEST TO THE CENTERLINE OF THE ROADWAY
- B. LOOP *1 IS THE LOOP IN THE LANE CLOSEST TO THE INTERSECTION.
- C. LABEL LOOP CABLE "IN" OR LOOP CABLE "OUT".
- D. LABEL LOOP CABLE CLOCKWISE OR LOOP CABLE COUNTERCLOCKWISE.

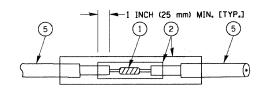


F.A.U. RTE.	SECTION		COUNT	Y	TOTAL SHEETS	SHEET NO.
3887	96-00159-00	-CH	KAN	E.	70	55
STA	STA.					
FED.	ROAD DIST. NO.	ILLINOI	FED.	AID	PROJECT	-

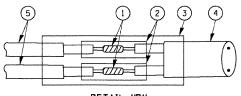


DETECTOR LOOP WIRING SCHEMATIC

- . LOOPS SHALL BE SPLICED IN SERIES.
- * SAW-CUTS SHALL BE A MINIMUM WIDTH OF 5/16" (8 mm).
- SAW-CUT DEPTHS SHALL BE 3" (75 mm). IF IN CONCRETE, THE SAW-CUT DEPTH SHALL BE TO THE TOP OF THE REINFORCEMENT.
- LOOP CORNERS SHALL BE DRILLED WITH A 2" (50 mm) DIAMETER CORE.



DETAIL "A" LOOP-TO-LOOP SPLICE



DETAIL "B" LOOP-TO-CONTROLLER SPLICE

LOOP DETECTOR SPLICE

- (1) WESTERN UNION SPLICE SOLDERED WITH ROSIN CORE FLUX. ALL EXPOSED SURFACES OF THE SOLDER SHALL BE SMOOTH.
- (2) WCSMW 30/100 HEAT SHRINK TUBE, MINIMUM LENGTH 3" (75 mm), UNDERWATER GRADE.
- (3) WCS 200/750 HEAT SHRINK TUBE, MINIMUM LENGHT 6" (150 mm), UNDERWATER GRADE.
- 4) NO. 14 2/C TWISTED, SHIELDED CABLE.
- (5) LOOP CONDUCTOR WITH FLEXIBLE PLASTIC TUBE.

REVISIONS		THI THOIS DEPARTMEN	IT OF TRANSPORTATION		
NAME	DATE	ILLINOIS DEPARTMENT OF TRANSPORTATION			
CADD	5/30/00				
ADD NOTE NO. 8	11/12/01	DISTR	ICT ONE		
BUREAU OF TRAFFIC	1-01-02	STANDARD TRAFFIC SIGNA			
		DESIGN	DETAILS		
			DRAWN BY: RWP		
		SCALE: NONE	DESIGNED BY: DAD CHECKED BY: DAZ		
			SHEET 1 OF 4		

SECTION COUNTY SHEETS NO. 3887 96-00159-00-CH KANE 70 STA. TO STA. FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT

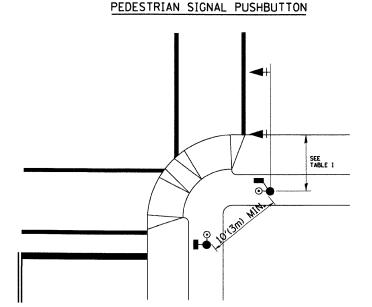
NOTES:

AT ACCESSIBLE PEDESTRIAN SIGNAL LOCATIONS WITH PEDESTRIAN ACTUATION. EACH PUSHBUTTON SHALL ACTIVATE BOTH THE WALK INTERVAL AND THE ACCESSIBLE

AT ACCESSIBLE PEDESTRIAN SIGNAL LOCATIONS, PUSHBUTTONS SHOULD CLEARLY INDICATE WHICH CROSSWALK SIGNAL IS ACTUATED BY EACH PUSHBUTTON, PUSHBUTTONS AND TACTILE ARROWS SHOULD HAVE HIGH VISUAL CONTRAST (SEE THE DEPARTMENT OF JUSTICE'S AMERICANS WITH DISABILITIES ACT STANDARDS FOR ACCESSIBLE DESIGN, 1991). TACTILE ARROWS SHOULD POINT IN THE SAME DIRECTION AS THE ASSOCIATED CROSSWALK, AT CORNERS OF SIGNALIZED LOCATIONS WITH ACCESSIBLE PEDESTRIAN SIGNALS WHERE PEDESTRIAN PUSHBUTTONS ARE PROVIDED, THE PUSHBUTTONS SHOULD BE SEPARATED BY THE DISTANCE OF AT LEAST 10 FT (3m). THIS ENABLES PEDESTRIANS WHO HAVE VISUAL DISABILITIES TO DISTINGUISH AND LOCATE THE APPROPRIATE PUSHBUTTONS. APPROPRIATE PUSHBUTTON.

PUSHBUTTONS FOR ACCESSIBLE PEDESTRIAN SIGNALS SHOULD BE LOCATED AS FOLLOWS:

- A: ADJACENT TO A LEVEL ALL-WEATHER SURFACE TO PROVIDE ACCESS FROM A WHEELCHAIR, AND WHERE THERE IS AN ALL WEATHER SURFACE, WHEELCHAIR ACCESSIBLE ROUTE TO THE RAMP.
- B: WITHIN 5 FT (1.5m) OF THE CROSSWALK EXTENDED.
- C: WITHIN 10 FT (3m) OF THE EDGE OF CURB, SHOULDER, OR PAVEMENT.
- D: PARALLEL TO THE CROSSWALK TO BE USED (SEE MUTCD FIGURE 4E-2).
- E: NORMAL PEDESTRIAN PUSHBUTTON MOUNTING HEIGHT SHOULD BE 3.5 FT (1.05m) ABOVE ADJACENT SIDEWALK
- 2. PEDESTRIAN SIGNAL FACES SHALL BE MOUNTED WITH THE BOTTOM OF THE HOUSING NOT LESS THAN 8 FT (2,4m) NOR MORE THAN 10 FT (3,0m) ABOVE THE SIDEWALK LEVEL AND SO THERE IS A PEDESTRIAN INDICATION IN THE LINE OF PEDESTRIANS' VISION WHICH PERTAINS TO THE CROSSWALK
- 3. THE BOTTOM OF THE HOUSING OF A VEHICLE SIGNAL FACE, NOT MOUNTED OVER A ROADWAY, SHALL BE AT LEAST 10 FT (3.0m) BUT NOT MORE THAN 15 FT (4.5m) ABOVE THE SIDEWALK OR, ABOVE THE PAVEMENT GRADE AT THE CENTER OF THE HIGHWAY IF NO SIDEWALKS EXIST.
- 4. THE BOTTOM OF THE HOUSING OF A VEHICLE SIGNAL FACE, MOUNTED OVER A ROADWAY, SHALL BE ACCORDING TO CURRENT STATE STANDARDS 877001 AND 877006. (16 FT (5m) MIN., 18 FT (5.5m) MAX., FROM HIGHEST POINT OF PAVEMENT)



RECOMMENDED PUSHBUTTON LOCATIONS FOR ACCESSIBLE PEDESTRIAN SIGNALS SHALL BE IN ACCORDANCE WITH THE CURRENT MUTCO (SEE NOTE 1). TO MEET MUTCD REQUIREMENTS, PEDESTRIAN SIGNAL PUSHBUTTONS MAY HAVE TO BE MOUNTED ON A SEPARATE POST.

PEDESTRIAN SIGNAL POST

TRAFFIC SIGNAL MAST ARM AND POST

MAST ARM MOUNTED SIGNAL IN PROPOSED & FUTURE SIDEWALK AREA. INTERSECTION

SEE TABLE I

CURB, SHOULDER, OR EDGE OF PAVEMENT (SEE PLANS)

SHOWN WITH PEDESTRIAN SIGNAL AND

PUSHBUTTON DETECTOR

2'(600 mm)

TYP.

5' (1.5m) MAX._

PEDESTRIAN SIGNAL HEAD AND PEDESTRIAN PUSHBUTTON DETECTOR LOCATION

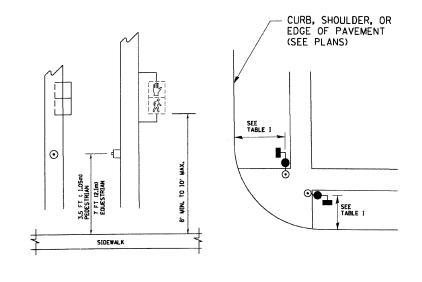


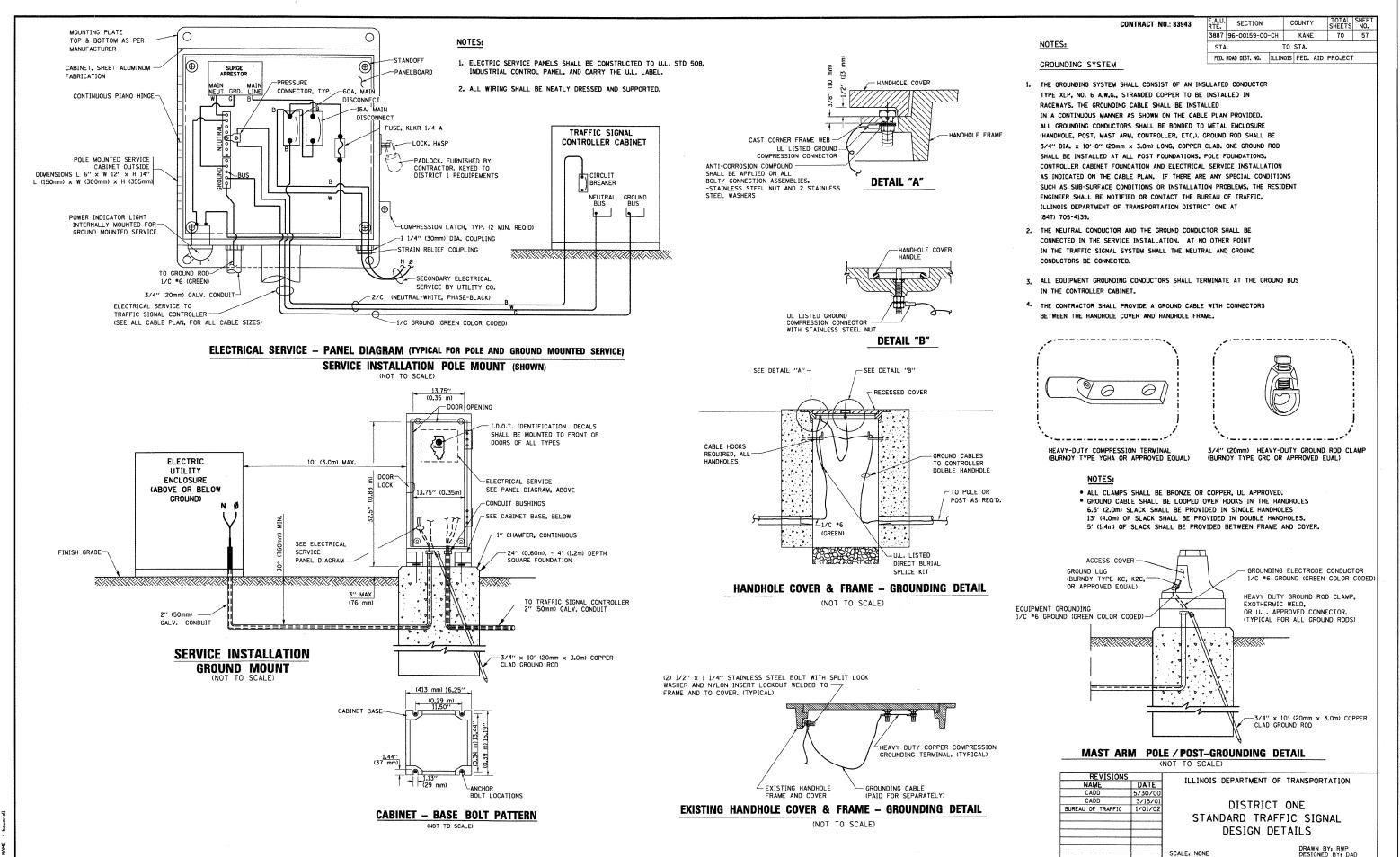
TABLE I

TRAFFIC SIGNAL EQUIPMENT	COMBINATION CONCRETE CURB AND GUTTER (MIN. DIST. FROM BACK OF CURB)	SHOULDER/NON-CURBED AREA (MIN. DIST. FROM EDGE OF PAVEMENT)
TRAFFIC SIGNAL MAST ARM POLE	6 FT (1.8m)	SHOULDER WIDTH + 2FT(0.6m), MINIMUM 10FT(3.0m)
TRAFFIC SIGNAL POST	4 FT (1.2m)	SHOULDER WIDTH + 2FT(O.6m), MINIMUM 10FT(3.0m)
PEDESTRIAN SIGNAL POST	4 FT (1.2m)	SHOULDER WIDTH + 2FT(0.6m), MINIMUM 10FT(3.0m)
PEDESTRIAN PUSHBUTTON	SEE NOTE 1	SEE NOTE 1

ILLINOIS DEPARTMENT OF TRANSPORTATION DISTRICT 1 STANDARD TRAFFIC SIGNAL DESIGN DETAILS

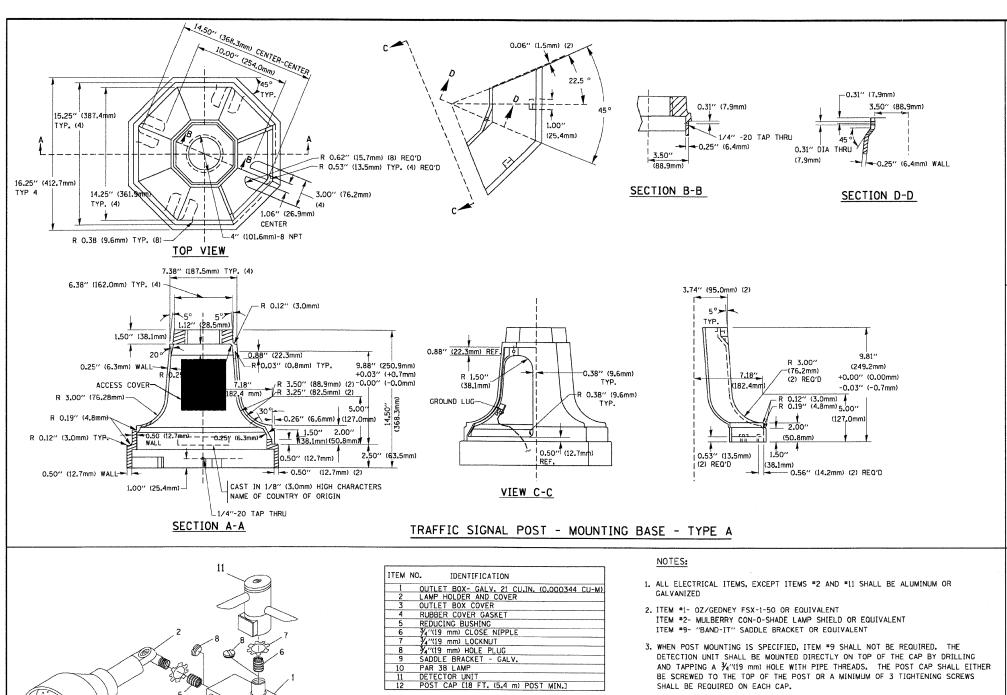
> SCALE: NONE DESIGNED BY: DAD CHECKED BY: DAZ SHEET 2 OF 4

TS05

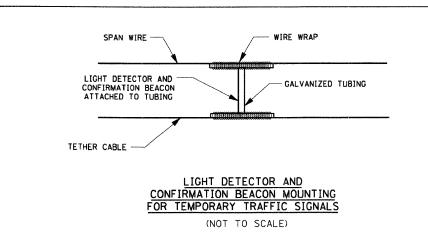


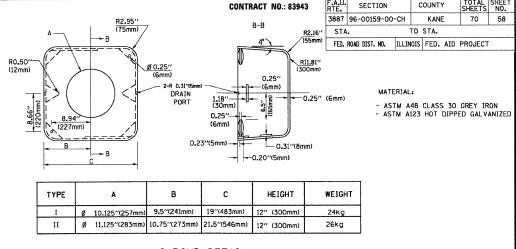
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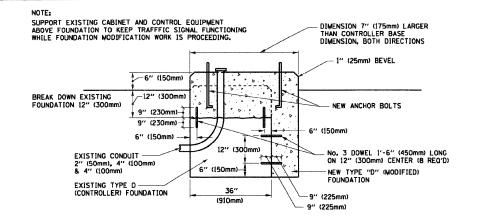


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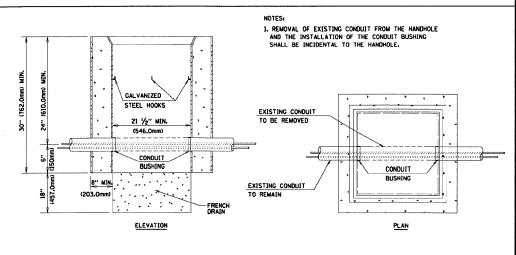


SHROUD DETAIL



MODIFY EXISTING TYPE "D" FOUNDATION

(NOT TO SCALE)



DETAIL HANDHOLE TO INTERCEPT EXISTING CONDUIT

REVISIONS		ILLINOIS DEPARTMENT OF TRANSPORTATION	
NAME	DATE	1 ILLINOIS DEPARTMENT OF TRANSPORTATION	
BUREAU OF TRAFFIC	5/30/00		
BUREAU OF TRAFFIC	3/15/01	DISTRICT ONE	
BUREAU OF TRAFFIC	11/12/01		
BUREAU OF TRAFFIC	1-01-02	STANDARD TRAFFIC SIGNAL	
		DESIGN DETAILS	
		DESIGN DETAILS	
		SCALE: NONE DRAWN BY: RWP DESIGNED BY: DAD	
		CHECKED BY: DA	
	1 1	CHEET 4 OF 4	

POST CAP MOUNT

MAST ARM MOUNT

EMERGENCY VEHICLE DETECTOR WITH CONFIRMATION BEACON MOUNTING DETAIL

= 3/7/2007 = K:\diststd\ts = 50.0000 '/ II = beuerdl DATE NAME SCALE NAME

TS05

