F.A.P. 311: US ROUTE 34 AT NORTH AURORA ROAD/RAYMOND DRIVE

> SECTION: 652X-N-3 **LOCATION OF PROJECT**

PROJECT: H5IP-0311(045)

DU PAGE COUNTY C-91-658-10

DESIGN DESIGNATION US ROUTE 34 (OGDEN AVE) **FUNCTION CLASSIFICATION: MAJOR ARTERIAL** DESIGN SPEED = 45 MPH POSTED SPEED = 40 MPH **NORTH AURORA ROAD** FUNCTIONAL CLASSIFICATION = MINOR ARTERIAL

FOR INDEX OF SHEETS, SEE SHEET NO. 2

DESIGN SPEED = 45 MPH POSTED SPEED = 40 MPH

RAYMOND DR FUNCTIONAL CLASSIFICATION = MAJOR ARTERIAL DESIGN SPEED = 45 MPH POSTED SPEED = 40 MPH

TRAFFIC DATA US 34 (OGDEN AVE) 2009 ADT = 37,000 N. AURORA RD 2009 ADT = 17,300 RAYMOND DR 2009 ADT = 26,200

PROJECT LOCATED WITHIN THE CITY OF NAPERVILLE

LOCATION OF PROJECT

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

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

T 38 N 10 Œ CO RD 33 W 75TH ST

> SCALE: NTS **NAPERVILLE TOWNSHIP**

GROSS & NET LENGTH OF PROJECT = 1650 FT = 0.31 MILES



MILLENNIA PROFESSIONAL SERVICES THOMAS V. NGO, P.E. # 062-058379

DATE: 05/27/2011 SIGNATURE AND SEAL APPLIES

LIN ENGINEERING, LTD. MICHAEL T. HALEY, S.E. * 81-5991

Michael J. Hole
DATE: 05/27/2011
SIGNATURE AND SEAL APPLIES TO DRWG NO 19 TO 20

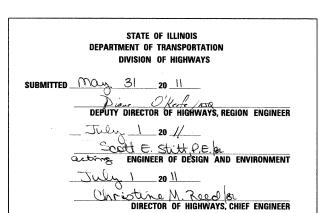
GANDHI AND ASSOCIATES INC. P.K. GANDHI, P.E. 062-034993

Pa. Is al DATE: 05/27/2011 SIGNATURE AND SEAL APPLIES

TO DRWG NO 22 TO 22







LOCATION OF SECTION INDICATED THUS: --

TOTAL SHEET NO. 34 1

COUNTY

DUPAGE.

D-91-658-10

ILLINOIS CONTRACT NO. 60L22

KANKAKEE

SECTION

652X-N-3

LEE

311

FED. ROAD DIST. NO. 1



200 22ND Street, Suite 216, Lombard, IL 60148 630.705.0110 voice, 630.839.2566 fax www.mps-il.com

MILLENNIA PROFESSIONAL SERVICES



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ENGINEER: KEN ENG (847) 705-4247

PLAN ONE

CONTRACT NO. 60L22

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LIST OF ILLINOIS DOT HIGHWAY STANDARDS

000001- 06	STANDARD SYMBOLS, ABBREVIATIONS, AND PATTERNS
001006	DECIMAL OF AN INCH AND OF A FOOT
424001 - 05	CURB RAMP FOR SIDEWALKS
442201 - 03	CLASS C AND D PATCHES
482011 - <i>03</i>	HMA SHOULDER STRIPS/SHOULDERS WITH RESURFACING OR WIDENING AND
	RESURFACING PROJECTS
602001-02	CATCH BASIN TYPE A
602011-02	CATCH BASIN TYPE C
602016-02	CATCH BASIN TYPE D
602301-03	INLET - TYPE A
602401-03	MANHOLE TYPE A
604001-03	FRAMES AND LIDS, TYPE 1
604041-02	FRAME AND GRATE TYPE 9
604091-02	FRAME AND GRATE TYPE 24
606001-04	CONCRETE CURB TYPE B AND COMBINATION CONCRETE CURB AND GUTTER
701201-04	LANE CLOSURE, 2L, 2W, DAY ONLY, FOR SPEEDS >/= 45 MPH
701301-04	LANE CLOSURE, 2L, 2W, SHORT TIME OPERATIONS
701306-03	LANE CLOSURE, 2L, 2W, SLOW MOVING OPERATIONS DAY ONLY,
	FOR SPEEDS >/= 45 MPH
701311-03	LANE CLOSURE, 2L, 2W, MOVING OPERATIONS - DAY ONLY
701336-06	LANE CLOSURE, 2L, 2W, WORK AREAS IN SERIES, FOR SPEEDS > 45 MPH
701431-06	LANE CLOSURE, MULTILANE, UNDIV. WITH CROSSOVER,
	FOR SPEEDS > 45 MPH TO 55 MPH
701501-06	URBAN LANE CLOSURE, 2L, 2W, UNDIVIDED
701606-07	URBAN LANE CLOSURE, MULTILANE, 2W WITH MOUNTABLE MEDIAN
701701-07	URBAN LANE CLOSURE, MULTILANE INTERSECTION
701901-01	TRAFFIC CONTROL DEVICES
814001-02	HANDHOLES

COMMITMENTS

NO COMMITMENTS FOR THIS PROJECT

GENERAL NOTES

- 1. BEFORE STARTING ANY EXCAVATION, THE CONTRACTOR SHALL CALL "J.U.L.I.E." AT 800-892-0123 FOR FIELD LOCATIONS OF BURIED ELECTRIC, TELEPHONE, AND GAS FACILITIES. 48 HOUR NOTIFICATION IS REQUIRED.
- 2. THE CONTRACTOR SHALL COORDINATE CONSTRUCTION ACTIVITIES WITH THE UTILITY COMPANIES, CITY OF NAPERVILLE.
- 3 THE CONTRACTOR WILL NOT BE ALLOWED TO SET UP A YARD OR FIELD OFFICE ON STATE PROPERTY WITHOUT WRITTEN PERMISSION FROM THE DEPARTMENT.
- ANY PAVEMENT MARKINGS AND RAISED REFLECTIVE PAVEMENT MARKERS OBLITERATED BY MILLING AND RESURFACING OPERATIONS ON SIDE STREETS AND ENTRANCES SHALL BE REPLACED AND PAID FOR IN KIND.
- ALL DAMAGE TO EXISTING PAVEMENT MARKING OR RAISED REFLECTIVE PAVEMENT MARKERS OUTSIDE THE REMOVAL LINE SHOWN ON THE PLANS SHALL BE REPLACED AT THE CONTRACTORS EXPENSE. NO ADDITIONAL COST TO THE DEPARTMENT.
- BEFORE BEGINNING ANY WORK, THE CONTRACTOR SHALL RETAIN AND RECORD FOR FUTURE REFERENCES, ALL EXISTING PAVEMENT MARKING LINES AND RAISED REFLECTIVE PAVEMENT MARKERS IN ORDER THAT THESE LOCATIONS CAN BE RE-ESTABLISHED FOR STRIPING. EXACT LOCATIONS OF ALL STRIPING SHALL BE AS DIRECTED BY THE ENGINEER.
- ALL PAVEMENT PATCHING LOCATIONS WILL BE DETERMINED IN THE FIELD BY THE ENGINEER.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING ALL DIMENSIONS AND CONDITIONS EXISTING IN THE FIELD PRIOR TO CONSTRUCTION AND ORDERING MATERIALS.
- THE CONTRACTOR SHALL CONTACT THE DISTRICT ONE TRAFFIC CONTROL SUPERVISOR AT (847) 705-4470 A MINIMUM OF 72 HOURS IN ADVANCE OF BEGINNING WORK.
- 10 THE ENGINEER SHALL CONTACT DON CHIARUGI, THE TRAFFIC FIELD ENGINEER AT (847) 741-9857 A MINIMUM OF TWO (2) WEEKS PRIOR TO THE PLACEMENT OF PERMANENT PAVEMENT MARKINGS.
- 11 THE CONTRACTOR SHALL BE REQUIRED TO PROVIDE ACCESS TO ABUTTING PROPERTY AT ALL TIMES DURING THE CONSTRUCTION OF THIS PROJECT.
- 12 DO NOT SCALE PLANS FOR CONSTRUCTION DIMENSIONS.
- 13 DOUBLE LANE MARKERS ARE TO BE USED AS SHOWN ON THE DISTRICT ONE DETAIL "TYPICAL APPLICATIONS - RAISED REFLECTIVE PAVEMENT MARKERS (SNOW-PLOW RESISTANT)" SHOWN ON THE PLANS.
- 14 WHEN MILLED PAVEMENT IS OPEN TO TRAFFIC THE MAXIMUM GRADE DIFFERENTIAL BETWEEN PASSES OF THE MILLING MACHINE SHALL NOT EXCEED 1 1/2 INCHES WHERE THE SPEED LIMIT IS 45 MPH OR LESS AND 1 INCH WHERE THE SPEED LIMIT IS GREATER THAN 45 MPH, WITH WRITTEN APPROVAL FROM THE ENGINEER, A MAXIMUM GRADE DIFFERENTIAL OF 3 INCHES MAY BE ALLOWED IF THE EDGE OF THE MILLING IS SLOPED A MINIMUM 1:3 (V:H).
- 15 BUTT JOINTS WILL BE INSTALLED AT THE ENDS OF ALL RESURFACING (WHERE RESURFACING MEETS EXISTING PAVEMENT), IN ACCORDANCE WITH THE "BUTT JOINT AND HOT-MIX ASPHALT TAPER DETAILS" SHEET INCLUDED IN THE PLANS UNLESS OTHERWISE SPECIFIED.
- 16 PAVEMENT MARKING TAPE, TYPE III SHALL BE USED FOR SHORT TERM PAVEMENT MARKINGS ON ALL FINAL SURFACES. THE COST OF THE PAVEMENT MARKING TAPE, TYPE III AND IT'S REMOVAL SHALL BE INCLUDED IN THE COST OF SHORT TERM PAVEMENT MARKING.
- 17 THE CONTRACTOR SHALL PLACE PROPOSED PAVEMENT MARKINGS IN ACCORDANCE WITH DISTRICT 1 TYPICAL PAVEMENT MARKINGS DETAIL (TC-13).
- 18 THE RESIDENT ENGINEER AND CONTRACTOR SHALL VERIFY ALL EXISTING PAVEMENT MARKING PRIOR TO THE PROJECT STARTING. IF A DISCREPANCIES OCCURS BETWEEN EXISTING PAVEMENT MARKINGS AND THE PROPOSED PAVEMENT MARKINGS, THE RESIDENT ENGINEER SHALL CONTACT THE BUREAU OF TRAFFIC OPERATIONS.

200 22ND Street, Suite 216, Lombard, IL 60148 630.705.0110 voice, 630.839.2566 fax www.mos-il.com

DESIGNED CJD REVISED DRAWN CJD REVISED CHECKED TVN REVISED MILLENNIA PROFESSIONAL SERVICES DATE

STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION**

US ROUTE 34 AT NORTH AURORA ROAD /RAYMOND DRIVE HIGHWAY STANDARD, GENERAL NOTES, 311

SECTION COUNTY INDEX OF SHEETS, LIST OF IDOT DUPAGE 34 2 652X-N-3 AND COMMITMENTS CONTRACT NO. 60L22

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	SUMMARY OF QUANTITIE	S			STRUCTION PED SIGNAL	SIDEWALK	7
		UNIT	TOTAL	ROADWAY HSIP 90% FED 10% STATE	50% STATE 25% COUNTY 25% CITY	SIDEWALK 80% STATE 20% CITY	TREE REPLACEMENT
CODE NO.	ITEM DESCRIPTION	Olin	QUANTITY	0005	0021	0021	100% CITY 0031
20100110	TREE REMOVAL (6 TO 15 UNITS DIAMETER)	UNIT	27	-	-	-	27
20200100	EARTH EXCAVATION	CU YD	1010	1010	_	-	-
20201200	REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL	CU YD	490	490	- -	-	-
20400800	FURNISHED EXCAVATION	CU YD	25	25	+	-	-
20800150	TRENCH BACKFILL	CU YD	231.6	231.6	-	-	-
21101615	TOPSOIL FURNISH AND PLACE, 4"	. SQ YD	1065	1065	-	-	-
25200110	SODDING, SALT TOLERANT	SQ YD	1065	1065	-		-
28000400	PERIMETER EROSION BARRIER	FOOT	500	500	-		-
28000510	INLET FILTERS	EACH	30	30	_	-	-
35501327	HOT-MIX ASPHALT BASE COURSE, 103/4"	SQYD	919	919	\wedge	-	
40600200	BITUMINOUS MATERIALS (PRIME COAT)	TON	0.79	0.79		-	
40600300	AGGREGATE (PRIME COAT)	TON	3.94	3.94	-	~	-
40603090	HOT MIX ASPHALT BINDER COURSE, IL 19.0, N90	TON	544	544	<u> </u>	-	**
40603595	POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, MIX "F", N90	TON	221	221	-		-
42001300	PROTECTIVE COAT	SQ YD	3435	3435			-
42400200	PORTLAND CEMENT CONCRETE SIDEWALK 5 INCH	SQ FT	2493		-	2493	
						2 133	
42400800	DETECTABLE WARNINGS	SQ FT	48			48	-
44000157	HOT-MIX ASPHALT SURFACE REMOVAL, 2"	SQ . ⊬YD	1068	1068	-	-	-
44000500	COMBINATION CURB AND GUTTER REMOVAL	FOOT	1205	1205		-	
44003510	MEDIAN REMOVAL PARTIAL DEPTH	SQ FT	1850	1850	-	-	_
44201819	CLASS D PATCHES, TYPE III, 14 INCH	SQ YD	50	50			
44201821	CLASS D PATCHES, TYPE IV. 14 INCH	SQ YD	194	194	-	-	
44003100	MEDIAN REMOVAL	SQ FT	9570	9570	-	-	-
44000600	SIDEWALK REMOVAL	SQ FT	195		-	195	**
550A0050	STORM SEWERS, CLASS A, TYPE 1 12"	FOOT	21	21	-	-	-
550A0070	STORM SEWERS, CLASS A, TYPE 1 15"	FOOT	47	47	-	-	_
550A0160	STORM SEWERS, CLASS A, TYPE 1 36"	FOOT	252	252	-	-	
5E0A4500	STORM SEWERS, CLASS A, TYPE 1 EQUIVALENT ROUND-SIZE 36"	FOOT	146	146	-	-	-
55100900	STORM SEWER REMOVAL 18"	FOOT	140	140	-	· -	_
55101200	STORM SEWER REMOVAL 24"	FOOT	249	249			
50255500	MANHOLES TO BE ADJUSTED	EACH	1	1	-	-	NAME OF THE PROPERTY OF THE PR
50200105	CATCH BASINS, TYPE A, 4'-DIAMETER, TYPE 1 FRAME, OPEN LID	EACH	1	1	-		-
0200205	CATCH BASINS, TYPE A, 4'-DIAMETER, TYPE 1 FRAME, CLOSED LID	EACH	1	1			_

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CHECKED - TVN

CJD

	SUMMARY OF QUANTITIE			TYPE COL	DE		
CODE NO		UNIT	TOTAL QUANTITY	ROADWAY HSIP 90% FED 10% STATE	PED SIGNAL 50% STATE 25% COUNTY 25% CITY 0021	SIDEWALK 80% STATE 20% CITY 0021	TREE REPLACEMENT 100% CITY 0031
60206905	CATCH BASINS, TYPE C, TYPE 1 FRAME, OPEN LID	EACH	4	4 .		-	_
60208240	CATCH BASINS, TYPE C, TYPE 24 FRAME AND GRATE	EACH	. 2	2	-		-
60211800	CATCH BASINS, TYPE D, 4'-DIAMETER, TYPE 1 FRAME, CLOSED LID	EACH	2	2	-	-	-
60223800	MANHOLES, TYPE A, 6'-DIAMETER, TYPE 1FRAME, CLOSED LID	EACH	2	2	-		-
60236600	INLETS, TYPE A, TYPE 9 FRAME AND GRATE	EACH	2	2	-	_	-
60257900	MANHOLES TO BE RECONSTRUCTED	EACH	1	1	-	-	-
60300305	FRAMES AND LIDS TO BE ADJUSTED	EACH	2	2			-
60406100	FRAMES AND LIDS, TYPE 1, CLOSED LID	EACH	2	2			
60605000	COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.24	FOOT	94	94		-	
60619200	CONCRETE MEDIAN, TYPE SB-6.06	SQ FT	386	386	-		-
60619600	CONCRETE MEDIAN, TYPE SB-6.12				-		
60624600	CORRUGATED MEDIAN CORRUGATED MEDIAN	S0 FT	321	321	-	-	*
		SQ FT	2910	2910	-		-
63700175	CONCRETE BARRIER, SINGLE FACE, 42 INCH HEIGHT	FOOT	166	166		- '-	-
66900200	NON-SPECIAL WASTE DISPOSAL	CU YD	5	5	-		-
66900450	SPECIAL WASTE PLANS AND REPORTS	L SUM	1	1		-	-
66900530	SOIL DISPOSAL ANALYSIS	EACH	1	1	-	-	-
67000400	ENGINEER'S FIELD OFFICE, TYPE A	CAL MO	6	6	-		•
67100100	MOBILIZATION	L SUM	1	1	-	-	-
70106800	CHANGEABLE MESSAGE SIGN	CAL MO	6	6		-	
70300100	SHORT-TERM PAVEMENT MARKING	FOOT	530	530	-	_	-
70300210	TEMPORARY PAVEMENT MARKING - LETTERS AND SYMBOLS	SQ FT	36.4	36.4	-	-	_
70300220	TEMPORARY PAVEMENT MARKING - LINE 4"	FOOT	6630	6630	-	-	-
70300240	TEMPORARY PAVEMENT MARKING - LINE 6"	FOOT	350	350	-	-	-
70300520	PAVEMENT MARKING TAPE, TYPE III, 4"	FOOT	1000	1000	-	-	
70301000	WORK ZONE PAVEMENT MARKING REMOVAL	SQ FT	88	88		-	.
78000100	THERMOPLASTIC PAVEMENT MARKING - LETTERS AND SYMBOLS	SQ FT	218.4	218.4	-		-
78000200	THERMOPLASTIC PAVEMENT MARKING - LINE 4"	FOOT	2125	2125	-	-	-
78000400	THERMOPLASTIC PAVEMENT MARKING - LINE 6"	FOOT-	816	816			-
78000650	THERMOPLASTIC PAVEMENT MARKING - LINE 24"	FOOT	43	43		-	_
78100100	RAISED REFLECTIVE PAVEMENT MARKER	EACH	83	83	. - .		
78300100	PAVEMENT MARKING REMOVAL	SO FT	2065	2065		_	_
	RAISED REFLECTIVE PAVEMENT MARKER REMOVAL	EACH		83			

* SPECIALTY ITEM

DEPARTMENT OF TRANSPORTATION

US ROUTE 34 SUMMARY OF QUANTITIES AT NORTH AURORA ROAD /RAYMOND DRIVE SCALE: NTS SHEET NO. 1 OF 2 SHEETS STA. TO STA.

A Rev. 7-19-11

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STATE OF ILLINOIS

ŀ	SUMMARY OF QUANTITIES				STRUCTION	,	DE
		UNIT	TOTAL	ROADWAY HSIP 90% FED 10% STATE	PED SIGNAL 50% STATE 25% COUNTY 25% CITY	SIDEWALK 80% STATE 20% CITY	TREE REPLACEMEN 100% CITY
CODE NO.	ITEM DESCRIPTION	Ontil	QUANTITY	0005	0021	0021	0031
* 81000600	CONDUIT IN TRENCH, 2" DIA., GALVANIZED STEEL	FOOT	240		240	-	
* 81400100	HANDHOLE	EACH	1		1	•	
× 81603200	UNIT DUCT, 600V, 3-1C NO.2, 1/C NO.4 GROUND,	FOOT	430		430	-	
	(EPR-TYPE RHW),1 1/4" DIA. POLYETHYLENE						
81900200	TRENCH AND BACKFILL FOR ELECTRICAL WORK	FOOT	650·		650		
84400105	RELOCATE EXISITNG LIGHTING UNIT	EACH	2		2	-	**
87301215	ELECTRIC CABLE IN CONDUIT, SIGNAL, NO. 14 2C	FOOT	475		475	-	-
88102717	PEDESTRIAN SIGNAL HEAD, LED. 1-FACE, BRACKET MOUNTED	EACH	4	-	4	-	
	WITH CCUNTDOWN TIMER						
88102747	PEDESTRIAN SIGNAL HEAD, LED, 2-FACE, BRACKET MOUNTED	EACH	1	-	1	-	4-
	WITH COUNTDOWN TIMER					***************************************	
88600600	DETECTOR LOOP REPLACEMENT	FOOT	97	97			
88800100	PEDESTRIAN PUSH-BUTTON	EACH	6	-	6	-	-
89502376	REBUILD EXISTING HANDHOLE	EACH	. 1				-
89502380	REMOVE EXISTING HANDHOLE	EACH	1		1	-	-
A2000118	TREE, ACER X FREEMANII AUTUMN BLAZE (AUTUMN BLAZE FREEMAN MAPLE	, EACH	3	-	-		3
	3" CALIPER, BALLED AND BURLAPPED						
X5539700	STORM SEWERS TO BE CLEANED	FOOT	144	144	-	-	-
X6061460	PAVED DITCH (SPECIAL)	FOOT	166	166		-	-
X7010216	TRAFFIC CONTROL AND PROTECTION (SPECIAL)	L SUM	1	1	-		- 44
X8360120	LIGHT POLE FOUNDATION, SPECIAL	EACH	2	2	_	-	
Z0001050	AGGREGATE SUBGRADE 12"	SQ YD					
·			1223	1223		-	-
Z0013302	SEGMENTAL CONCRETE BLOCK WALL	SQ FT	575	575	-		w
Z0013798	CONSTRUCTION LAYOUT	L SUM	1	1	-	-	-
Z0018400	DRAINAGE STRUCTURES TO BE ADJUSTED .	EACH	2	2	-	-	
Z0018500	DRAINAGE STRUCTURES TO BE CLEANED	EACH	18	18	-		w
Z0018700	DRAINAGE STRUCTURE TO BE REMOVED	EACH	2	2	-		-
Z0030850	TEMPORARY INFORMATION SIGNING	SQ FT	104	104	-	-	-
Z0033024	MAINTAIN EXISTING LIGHTING SYSTEM	L SUM	1	1			
						-	-
Z0048665	RAILROAD PROTECTIVE LIABILITY INSURANCE	L SUM	. 1	1	· -	-	
-							

Δ NON-partici pating (100%. State)

200 22ND Street, Suite 216, Lombard, IL 60148
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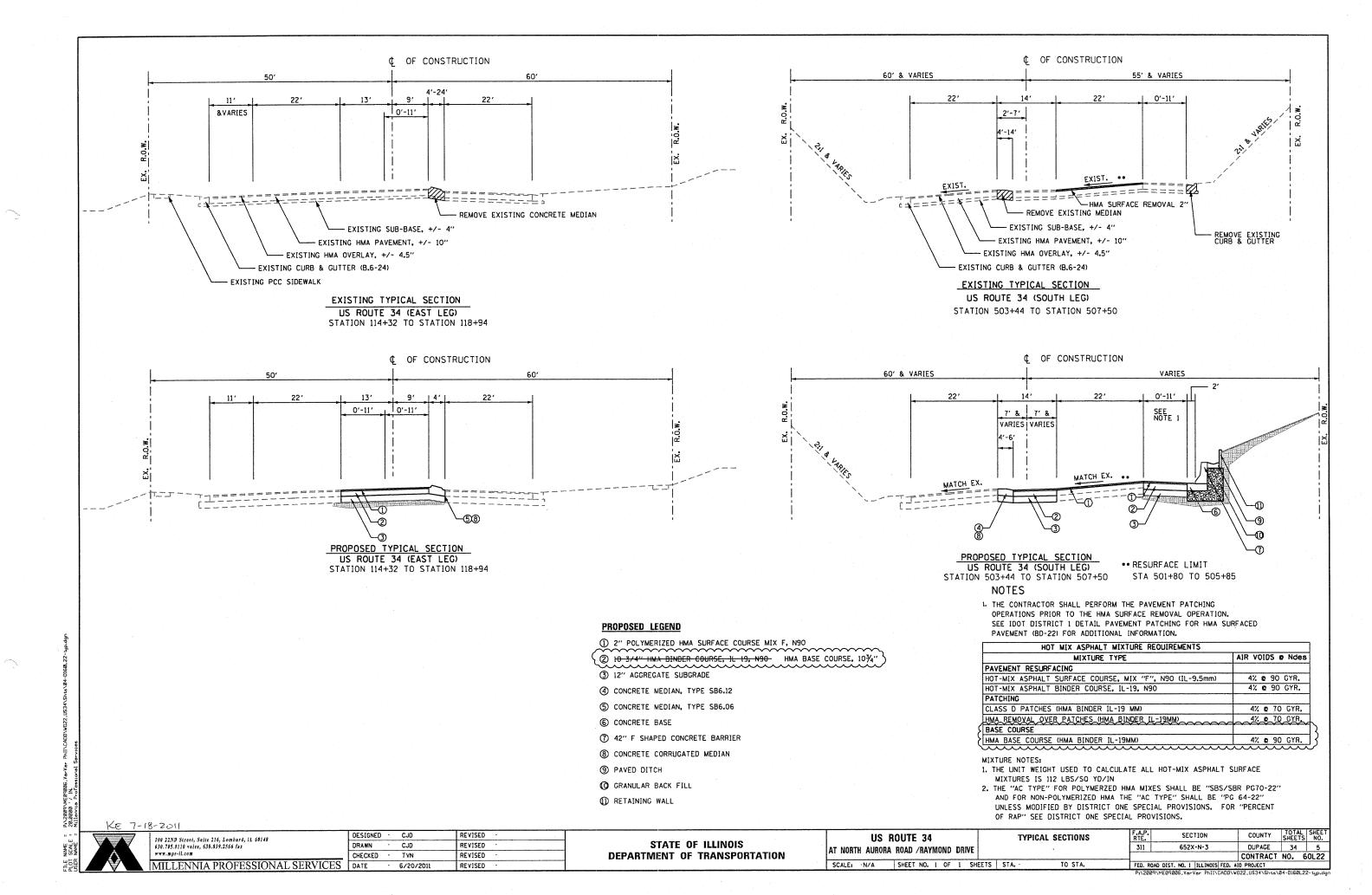
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DEPARTMENT OF TRANSPORTATION

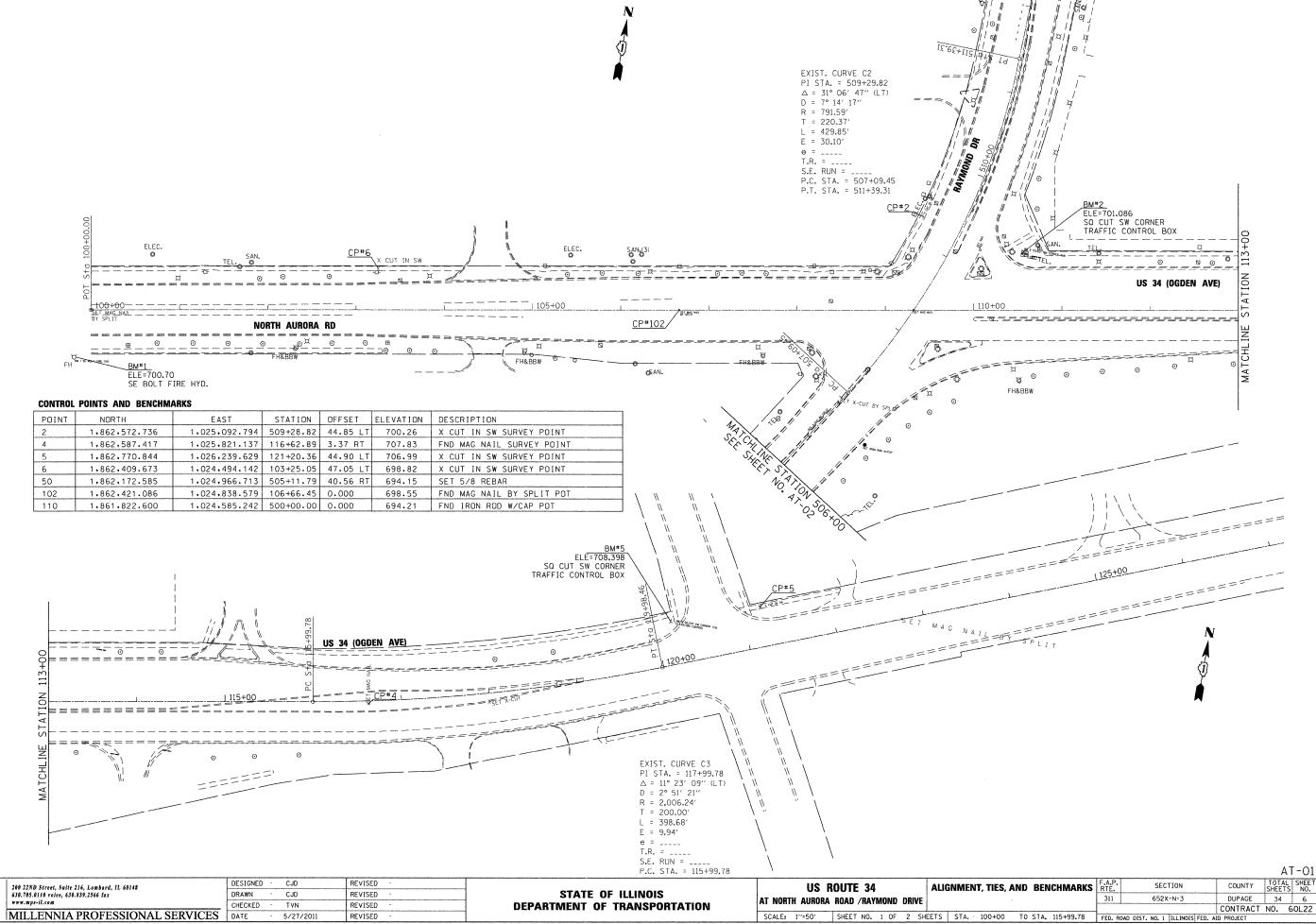
US ROUTE 34 AT NORTH AURORA ROAD /RAYMOND DRIVE SCALE: NTS SHEET NO. 1 OF 2 SHEETS STA.

SUMMARY OF QUANTITIES

F.A.P. RTE. 311 TO STA.

* SPECIALTY ITEM





- 5/27/2011 REVISED

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US ROUTE 34(OGDEN AVE/RAYMOND DR) ALIGNMENT
POINT 110 N 1.861.822.600 E 1.024.585.242 STA = 500+00.00
CURVE C1
P.I. STATION 504+71.67 N 1.862.161.347 E 1.024.913.448
DELTA = 11° 08' 02" (LT)
DEGREE = 5° 19' 17"
TANGENT = 104.948
LENGTH = 209.234
RADIUS = 1.076.729
EXTERNAL = 5.102
LONG CHORD = 208.905

MID. ORD. = 5.078

P.C. STATION = 503+66.72 N 1.862.085.974 E 1.024.840.420

P.T. STATION = 505+75.95 N 1.862.249.402 E 1.024.970.546
 CURVE C2
DELTA = 31° 06′ 47″ (LT)
DEGREE = 7° 14′ 17″
TANGENT = 220.368
LENGTH = 429.852
 RADIUS = 791.588
RADIUS - 191.300

EXTERNAL = 30.101

LONG CHORD = 424.590

MID. ORD. = 28.999

P.C. STATION = 507+09.45 N 1.862.361.416 E 1.025.043.179

P.T. STATION = 511+39.31 N 1.862.766.568 E 1.025.170.178
 POINT 104 N 1,863,707.518 E 1,025,200.533 STA = 520+80.75
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NORTH AURORA/OGDEN AVENUE ALIGNMENT POINT 103 N 1,862,308.281 E 1,024,181.748 STA = 100+00.00 CURVE C3
P.I. STATION 117+99.78 N 1.862.612.918 E 1.025.955.558
DELTA =11° 23′ 09″ (LT)
DEGREE = 2° 51′ 21″
TANGENT = 200.000
LENGTH = 398.683 RADIUS EXTERNAL = 2.006.240 = 9.944 LONG CHORD = 398.027 MID. ORD. = 9.895 P.C. STATION = 115+99.78 N 1.862.579.065 E 1.025.758.444 P.T. STATION = 119+98.46 N 1.862.685.017 E 1.026.142.110 POINT 100 N 1,862,991.474 E 1.026,935.037 STA = 128+48.55

US 34 JOGDEN AVEL CP#110

DESIGNED -CJD REVISED 200 22ND Street, Suite 216, Lombard, IL 60148 630.705.0110 voice, 630.839.2566 fax www.mps-il.com DRAWN CJD REVISED CHECKED TVN REVISED MILLENNIA PROFESSIONAL SERVICES DATE

STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION**

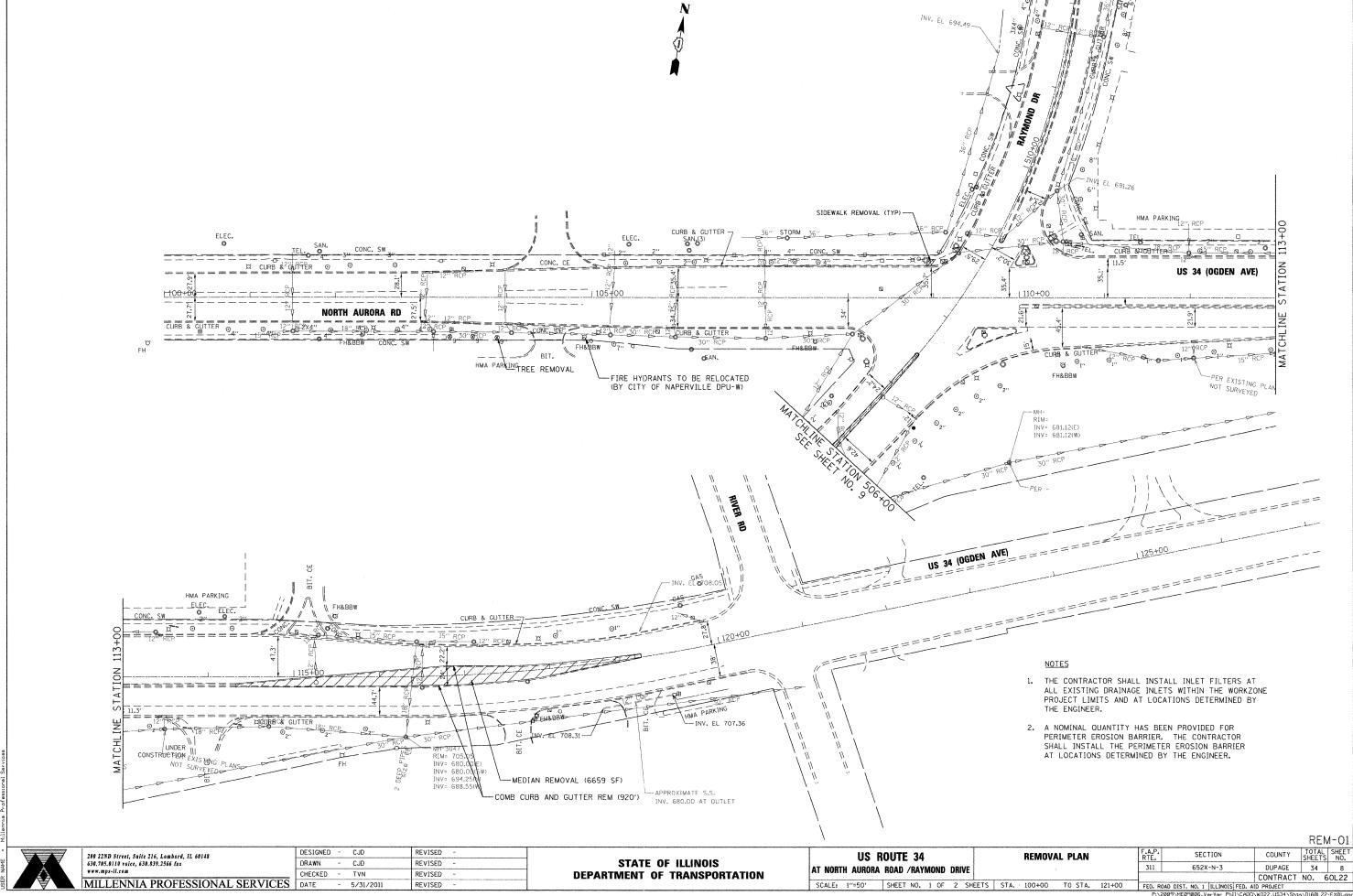
US ROUTE 34 AT NORTH AURORA ROAD /RAYMOND DRIVE

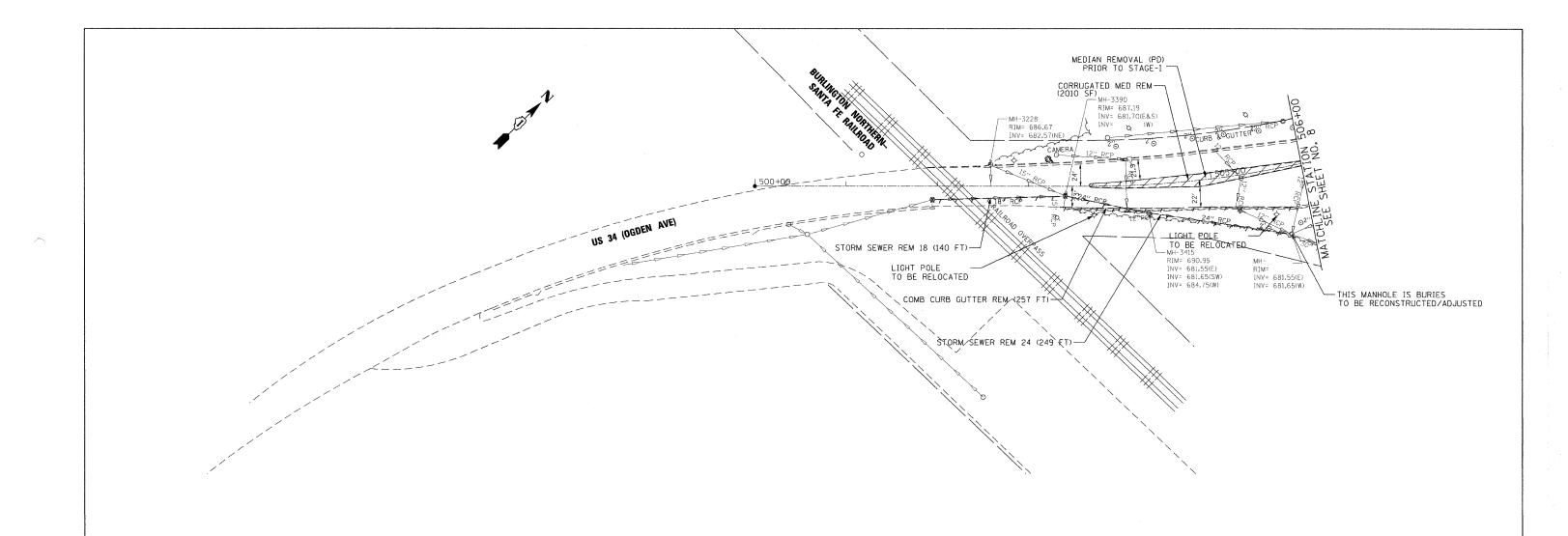
SECTION ALIGNMENT, TIES AND BENCHMARKS RTE. 652X-N-3 SCALE: 1"=50" SHEET NO. 2 OF 2 SHEETS STA. 500+00 TO STA. 506+00 FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT

AT-02

COUNTY TOTAL SHEET NO.

DUPAGE 34 7 CONTRACT NO. 60L22





- THE CONTRACTOR SHALL INSTALL INLET FILTERS AT ALL EXISTING DRAINAGE INLETS WITHIN THE WORKZONE PROJECT LIMITS AND AT LOCATIONS DETERMINED BY THE ENGINEER.
- A NOMINAL QUANTITY HAS BEEN PROVIDED FOR PERIMETER EROSION BARRIER. THE CONTRACTOR SHALL INSTALL THE PERIMETER EROSION BARRIER AT LOCATIONS DETERMINED BY THE ENGINEER.

200 22ND Street, Suite 216, Lombard, IL 60148 630.705.0110 voice, 630.839.2566 fax www.mps-il.com MILLENNIA PROFESSIONAL SERVICES DATE

DESIGNED - CJD REVISED DRAWN CJD REVISED CHECKED REVISED 5/31/2011 REVISED

STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION**

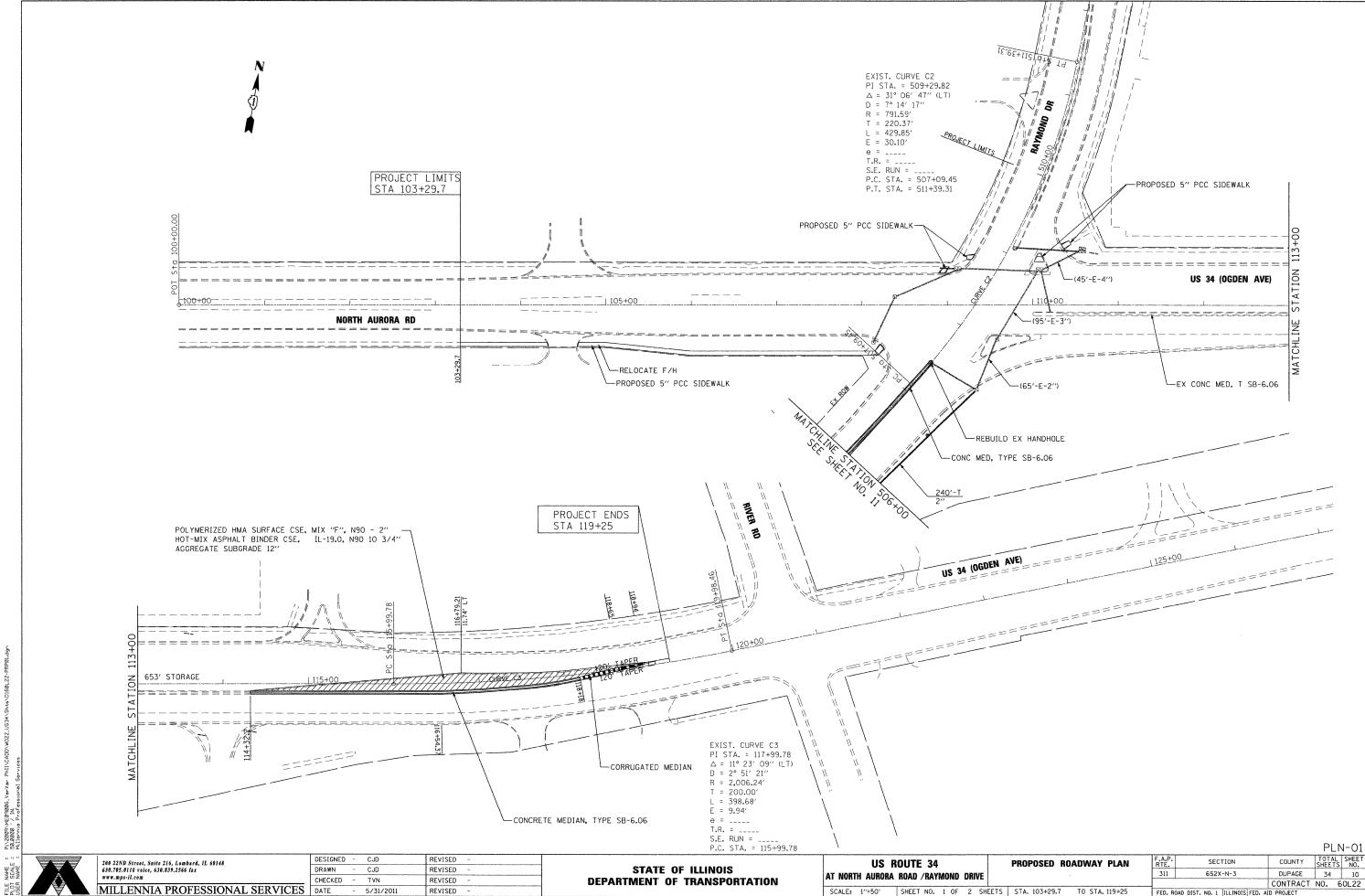
US ROUTE 34 AT NORTH AURORA ROAD /RAYMOND DRIVE

REMOVAL PLAN

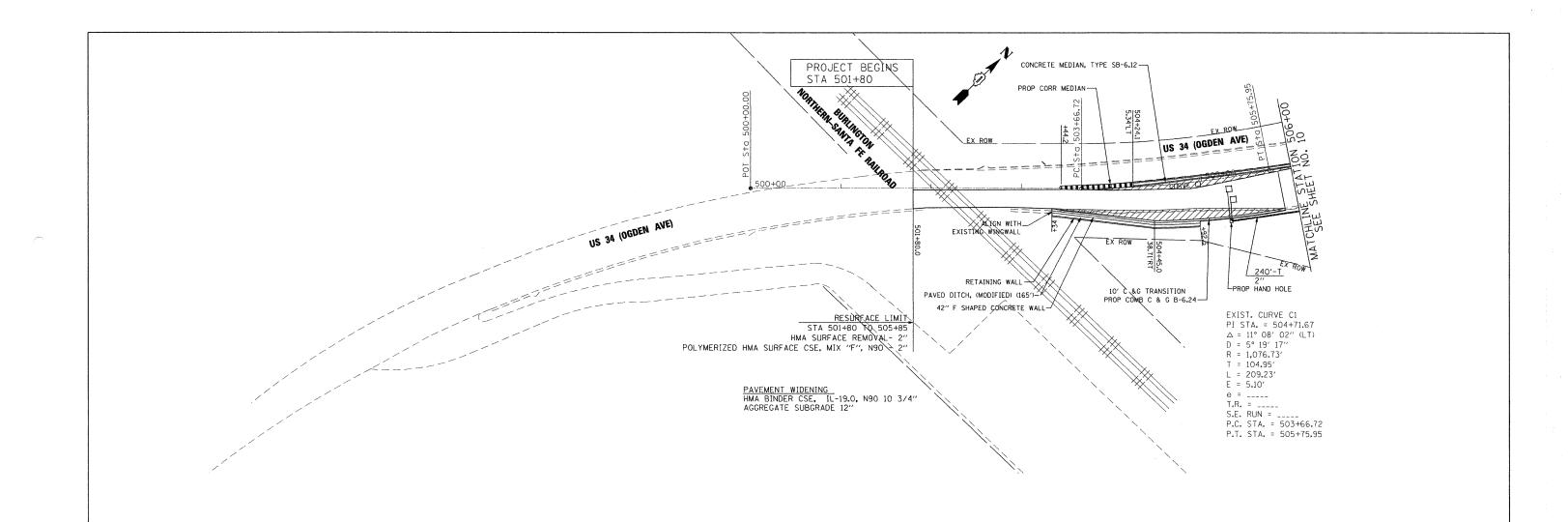
REM-02 COUNTY TOTAL SHEET NO.

DUPAGE 34 9 F.A.P. RTE. 311 SECTION 652X-N-3 CONTRACT NO. 60L22

SCALE: 1"=50' SHEET NO. 2 OF 2 SHEETS STA. 500+00 TO STA. 506+00 FED. ROAD DIST. NO. 1 | ILLINOIS | FED. AID PROJECT



FED. ROAD DIST. NO. 1 | ILLINOIS | FED. AID PROJECT P:\2009\ME09006_VarVar PhII\CADD\WD22_US34\5



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STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION**

US ROUTE 34 AT NORTH AURORA ROAD /RAYMOND DRIVE SCALE: 1"=50" SHEET NO. OF SHEETS STA. 501+80 TO STA. 506+00

PROPOSED ROADWAY PLAN

PLN-02

COUNTY TOTAL SHEET NO.

DUPAGE 34 11 SECTION 652X-N-3 CONTRACT NO. 60L22 FED. ROAD DIST. NO. 1 | ILLINOIS FED. AID PROJECT

MAINTENANCE OF TRAFFIC GENERAL NOTES

- 1. THE SUGGESTED STAGES OF CONSTRUCTION AND TRAFFIC CONTROL PLANS SHALL SERVE AS A GUIDE FOR SAFE DIVERSION OF TRAFFIC DURING EXECUTION OF THIS CONTRACT. HOWEVER, THE CONTRACTOR MAY IMPROVE OR MODIFY THE TRAFFIC CONTROL PLANS TO MEET CONSTRUCTION NEEDS BUT NOT AT THE EXPENSE OF PUBLIC SAFETY OR CONVENIENCE. ANY CHANGES TO THE TRAFFIC CONTROL PLAN SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL.
- THE CONTRACTOR SHALL BE REQUIRED TO MAINTAIN TRAFFIC IN ACCORDANCE WITH THE TRAFFIC CONTROL PLANS, SPECIAL PROVISIONS, APPLICABLE STATE STANDARDS, AND AS DIRECTED BY THE ENGINEER.
- CONTRACTOR SHALL MAINTAIN A MINIMUM OF ONE THROUGH LANE IN EACH DIRECTION THROUGH OUT THE PROJECT AREA AT ALL TIMES.
- 4. THE ENGINEER SHALL BE INFORMED 48 HOURS IN ADVANCE OF ANY CHANGE TO THE SUGGESTED STAGES OF CONSTRUCTION AND TRAFFIC CONTROL PLANS
- TYPE II BARRICADES OR DRUMS SHALL BE PROVIDED AS SHOWN IN THE PLANS AND SPACED 50 FEET CENTER TO CENTER ON TANGENT, AND 25 FEET CENTER TO CENTER ON TAPERS AND CURVES.
- THE CONTRACTOR SHALL PROVIDE ADEQUATE TEMPORARY DRAINAGE AND EROSION CONTROL PROTECTION DURING ALL PHASES OF CONSTRUCTION.
- 7. ALL EXISTING SIGNS THAT CONFLICT WITH THE TRAFFIC CONTROL PLAN SHALL BE COVERED OR REMOVED IN ACCORDANCE WITH ARTICLE 107.25 OF THE STANDARD SPECIFICATIONS.
- THE CONTRACTOR SHALL PROVIDE, INSTALL, MAINTAIN AND REMOVE ALL SIGNS AND SIGN SUPPORTS REQUIRED FOR TRAFFIC CONTROL AND PROTECTION.
- 9. THE CONTRACTOR SHALL PLACE A CHANGEABLE MESSAGE SIGN AT EACH END OF THE PROJECT AND/OR AS DIRECTED BY THE ENGINEER TO INFORM MOTORISTS OF UPCOMING CONSTRUCTION ACTIVITIES. THE MESSAGE SIGNS WITH THE APPROPRIATE INFORMATION SHALL BE IN PLACED TWO WEEKS BEFORE START OF CONSTRUCTION ACTIVITY. THIS WORK IS TO BE PAID FOR AT THE CONTRACT UNIT PRICE PER CALENDAR MONTH, "CHANGEABLE MESSAGE SIGN".
- 10. THE CONTRACTOR SHALL MAINTAIN THE EROSION CONTROL MEASURES DURING CONSTRUCTION.

SEQUENCE OF CONSTRUCTION

PRE-STAGE

- 1. INSTALL EROSION CONTROL MEASURES.
- 2. MILL EXISTING CORRUGATED MEDIAN LOCATED AT THE SOUTH LEG OF THE INTERSECTION PER REMOVAL
- 3. PLACE STAGE I TRAFFIC CONTROL DEVICES AND TEMPORARY PAVEMENT MARKINGS PER PLAN. UTILIZE IDOT STANDARD TRAFFIC CONTROL STANDARDS TO MAINTAIN TRAFFIC.

STAGE I

- REMOVE EXISTING MEDIAN ALONG EAST LEG OF INTERSECTION AND EXTEND STORAGE LENGTH OF THE EXISTING DUAL LEFT TURN LANES. WIDEN EXISTING PAVEMENT TO ACCOMMODATE ADDITIONAL STORAGE AND CONSTRUCT NEW MEDIAN.
- 2. WIDEN PAVEMENT AT THE SOUTH LEG FOR RIGHT TURN LANE STORAGE EXTENSION.
- REMOVE AND REPLACE EXISTING STORM SEWER AND DRAINAGE STRUCTURES AT THE SOUTH LEG PER PLAN.
- 4. CONSTRUCT PAVEMENT PATCHING PER PLAN.
- RELOCATE EXISTING LIGHT POLES PER PLAN.
- INSTALL PROPOSED RETAINING WALL AT THE SOUTH LEG PER PLAN.
- 7. INSTALL PROPOSED SIDEWALK ON THE WEST LEG AND AT THE INTERSECTION PER PLAN.
- 8. SEE SUGGESTED STAGES OF CONSTRUCTION PLANS TO MAINTAIN TRAFFIC.

REMOVE STAGE I TRAFFIC CONTROL AND PLACE STAGE II TRAFFIC CONTROL DEVICES AND TEMPORARY PAVEMENT MARKINGS PER PLAN. UTILIZE IDOT STANDARD TRAFFIC CONTROL STANDARDS TO MAINTAIN TRAFFIC.

STAGE II

REMOVE EXISTING MEDIAN ALONG SOUTH LEG OF INTERSECTION AND EXTEND STORAGE LENGTH OF THE EXISTING LEFT TURN LANE. WIDEN EXISTING PAVEMENT TO ACCOMMODATE ADDITIONAL STORAGE AND CONSTRUCT NEW MEDIAN.

SEE SUGGESTED STAGES OF CONSTRUCTION PLANS TO MAINTAIN TRAFFIC.

- 2. MILL AND RESURFACE NORTHBOUND SOUTH LEG PER PLAN.
- 3. INSTALL PEDERSTRIAN SIGNALS AT THE INTERSECTION PER PLAN.
- 4. INSTALL PERMANENT PAVEMENT MARKING AND LANDSCAPING PER PLAN.

UTILIZE IDOT STANDARD TRAFFIC CONTROL STANDARDS TO MAINTAIN TRAFFIC.

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MILLENNIA PROFESSIONAL SERVICES DATE

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STATE OF ILLINOIS

US ROUTE 34 AT NORTH AURORA ROAD /RAYMOND DRIVE

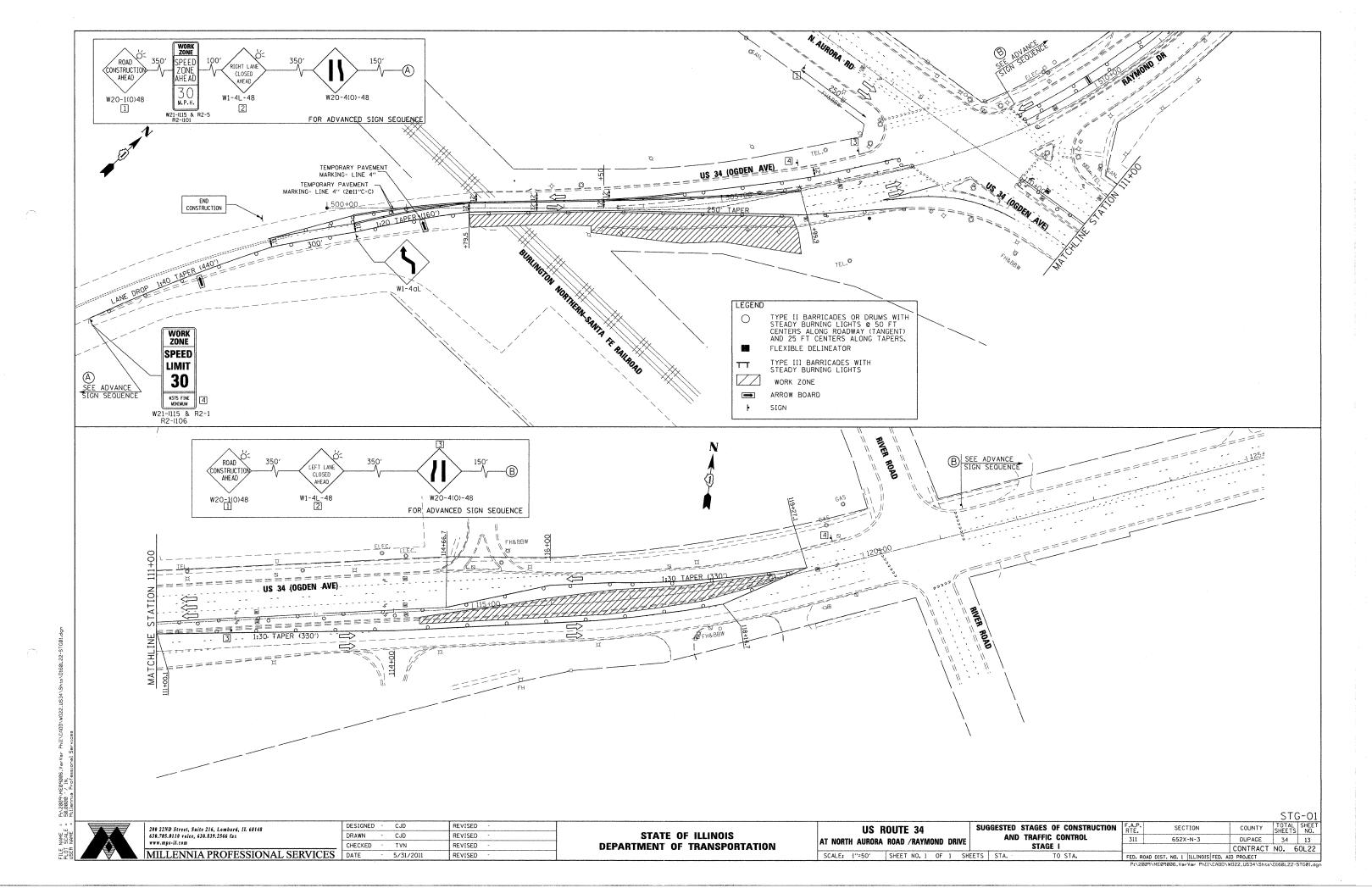
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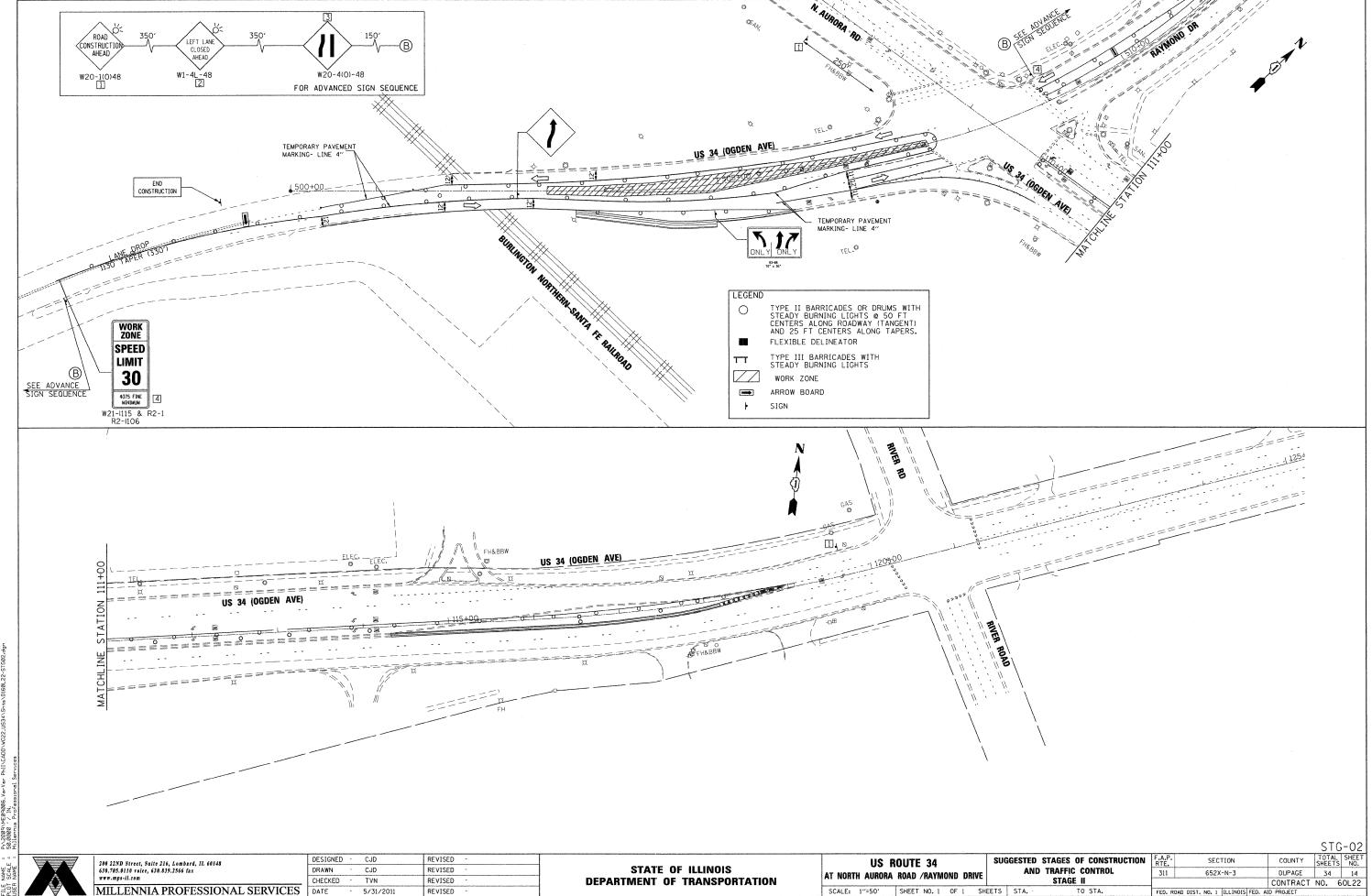
SHEETS STA.

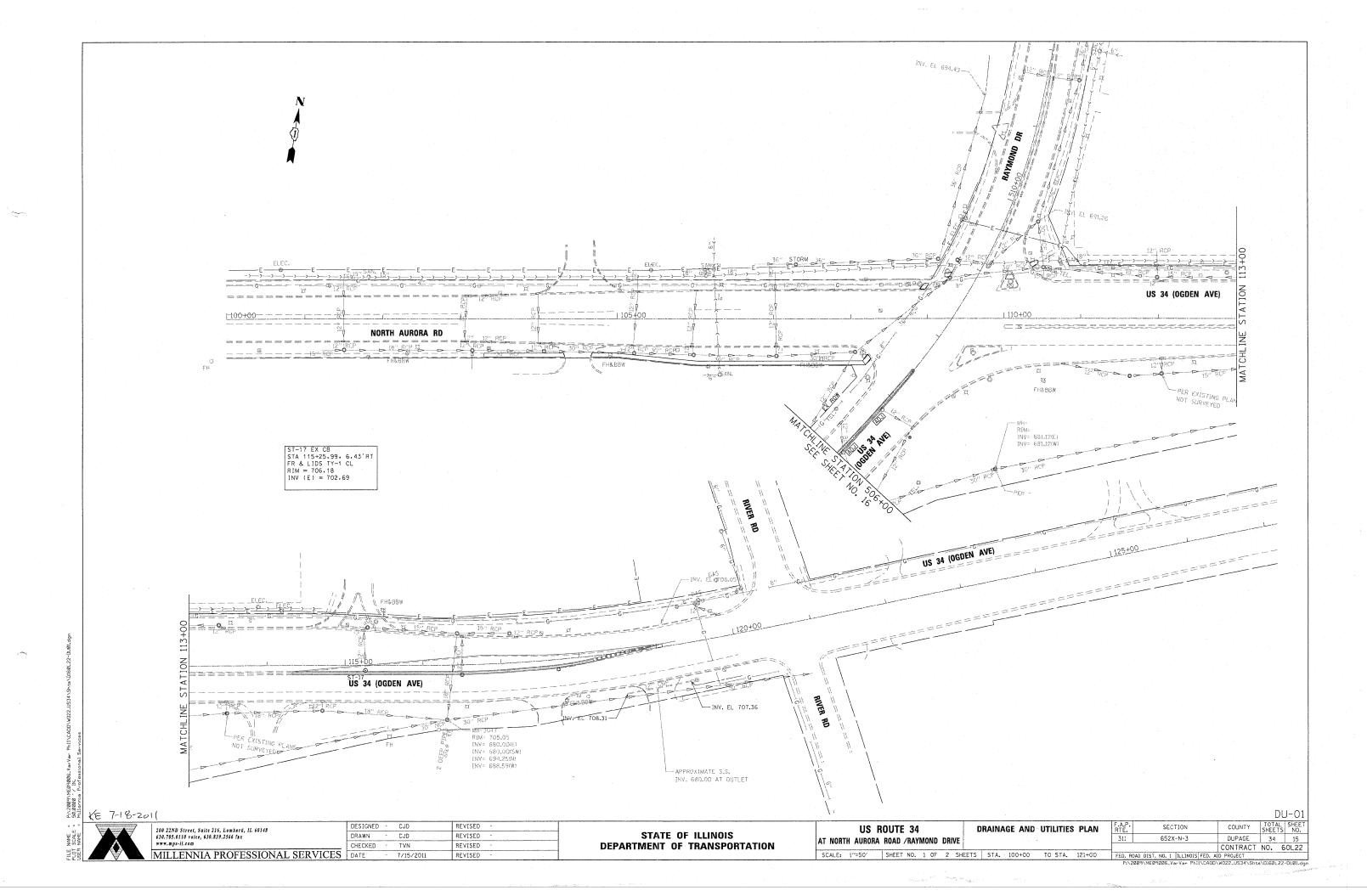
SUGGESTED STAGES OF CONSTRUCTION AND TRAFFIC CONTROL GENERAL NOTES AND DESCRIPTION

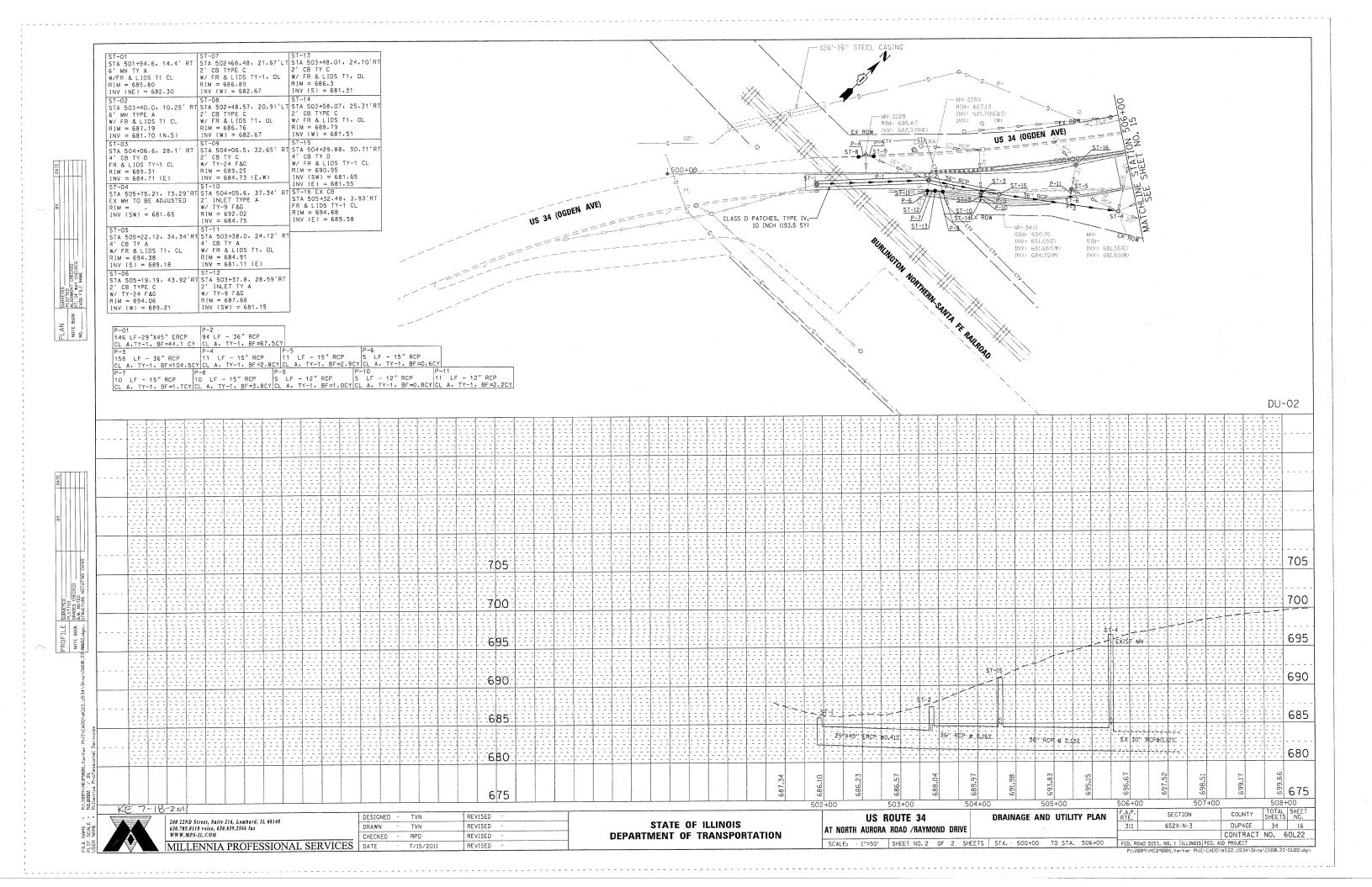
SECTION COUNTY 652X-N-3 DUPAGE 34 12 CONTRACT NO. 60L22 FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT

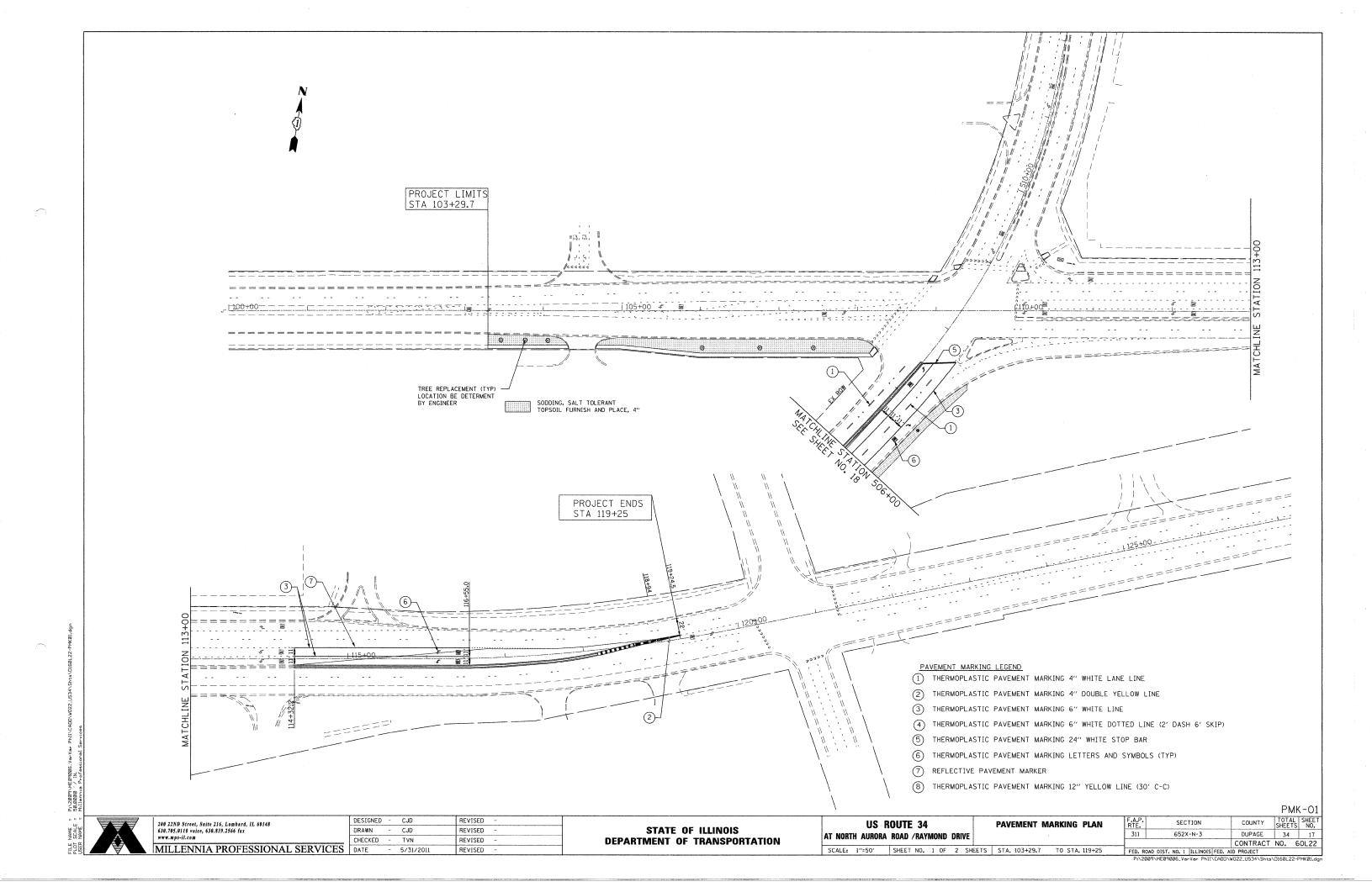
DEPARTMENT OF TRANSPORTATION

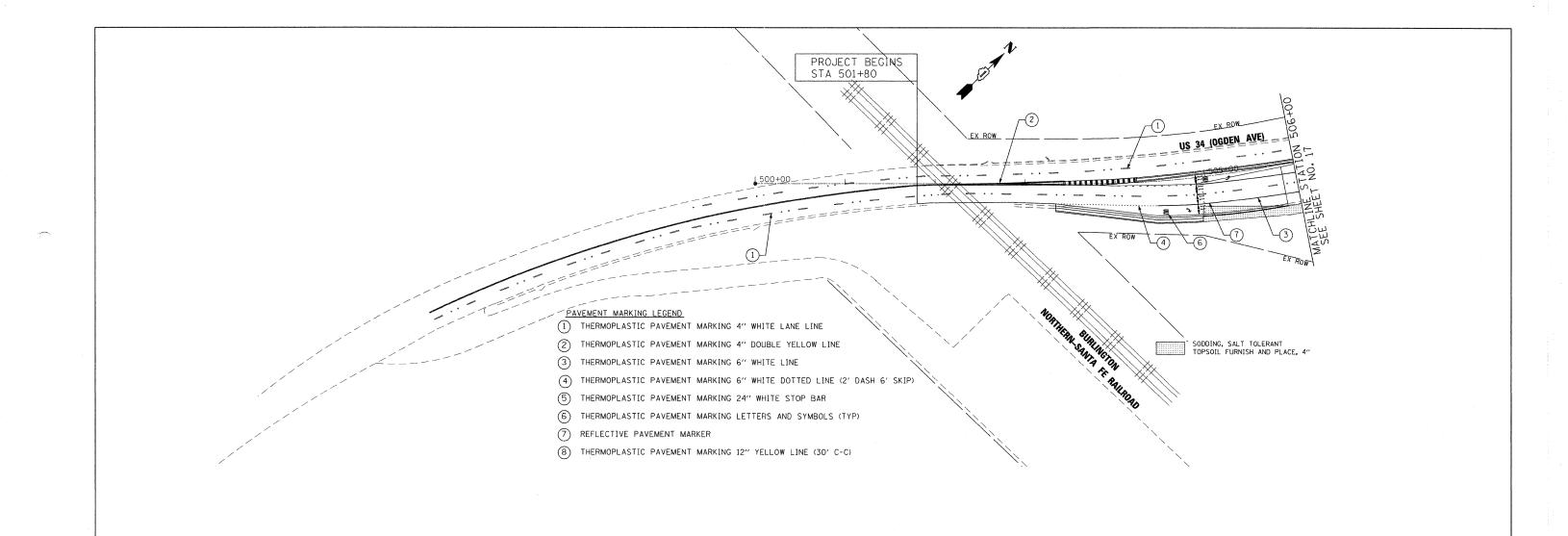












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STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION US ROUTE 34

PAVEMENT MARKING PLAN

PMK-02 COUNTY TOTAL SHEET NO. SECTION

166′-2" – Cap Blocks, (typ.) Kink in wall at Sta. 504+44.08 -1'-6" Min. Elev. 690.46 Elev. 690.96-Elev. 689.46-Elev. 689.96-Elev. 688.46 Elev. 688.96 Proposed Ditch — Elev. 686.46-Elev. 687.96-Flow Line 58'-5"

Geometry is based on 6" block heights. Geometry shall be adjusted per block dimensions used.

WALL ELEVATION
(Dimensions along back face of ditch)

See Detail A Edge of Parament 100' RIGHT-TURN LANE TAPER Adjacent to existing structure Paped Ditch (Special) Ext Row Concrete Barrier, Single Face, 42 Inch Height Segmental Concrete Block Wall

PLAN

THEORETICAL TOP OF CAP BLOCK ELEVATIONS

1	Elev. 689.47
2	Elev. 689.97
3	Elev. 690.47
4)	Elev. 690.97
(5)	Elev. 691.47
6	Elev. 691.97
7	Elev. 692.47
8	Elev. 692.97
9	Elev. 693.47
10	Elev. 693.97
(1)	Elev. 694.47
(12)	Elev. 694.97
13	Elev. 695,47
[4]	Elev. 694.97
(15)	Elev. 694,47
(16)	Elev. 693.97
17)	Elev. 693.47

<u>EDGE OF PAVEMENT</u> STATIONS & OFFSETS

Station	* Offset (Rt.)
503+34.00	22.45′
503+40.00	23,15′
503+50.00	24.33′
503+60.00	25.50′
503+70.00	26,68′
503+80.00	27.96′
503+90.00	29.34′
504+00.00	30.82′
504+10.00	32.40′
504+20.00	34.08′
504+30.00	35.86′
504+40.00	37.74′
504+50.00	39.05′
504+60.00	39.69′
504+70.00	40.30′
504+80.00	40.87′
504+93.25	41.57′

* Offsets refer to the distance from © South leg of US 34 to the edge of proposed pavement, measured at right angles or radially from Sta. 503+34.00 to Sta. 504+93.25. See Sheet 2 of 2 for typical cross-section.

CURVE DATA

PI Sta. = 504+71.67 Δ = 11° 08′ 02" (LT) D = 5° 19′ 17" R = 1,076.73′ T = 104.95′ L = 209.23′ E = 5.10′

P.C. Sta. = 503+66.72 P.T. Sta. = 505+75.95

TOTAL BILL OF MATERIAL

ITEM	UNIT	TOTAL
Segmental Concrete Block Wall	Sq. Ft.	575
Concrete Barrier, Single Face, 42 Inch Height	Foot	166
Paved Ditch (Special)	Foot	166

LIN ENGINEERING,LTD.

Consulting Engineers

Chatham, Illinois

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	PLOT SCALE =	DRAWN - AJF	REVISED -	
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

of paved ditch.

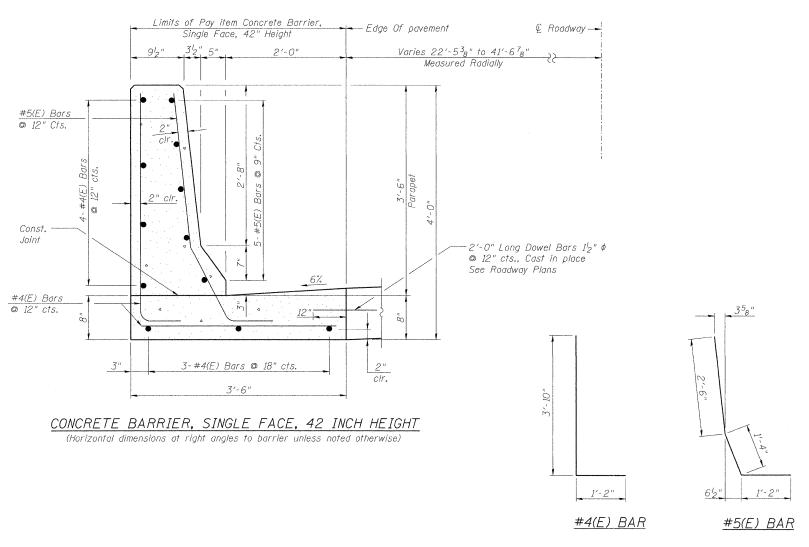
Stations are measured to back face

See Sheet 2 of 2 for Detail A.

US ROUTE 34							
AT	NORT	H AUROR	A ROAD	/RAYMOI	ND DRIVE		
	STA	503+33.00	TO S	TA 504±9	2 90	+	

GENERAL	PLAN	AND	ELEVATION
STRUC	TURE	NO. 02	2-W059

F.A.P. SECTION					T	COUNTY	TOTAL	SHEET NO.	
311 652X-N-3						DUPAGE	34	19	
							CONTRACT	NO. 6	0L22
FED. RO	AD DIST.	NO.	1	ILLINOIS	FED.	AID	PROJECT		



Modular Blocks
(12° max. Batter)

Flow Line

Granular Backfill

See Roadway Plans

A Trench Backfill

See Roadway Plans

Match Existing Grade

Match Existing Grade

Granular Backfill

Excavation for wall

Excavation for wall

TYPCIAL SECTION - UNREINFORCED RETAINING WALL

Notes:

Block Retaining Walls shall be constructed to manufacturer's specifications and to the approval of the Engineer.

The Schematic representation shown in the drawings is arbitrary. Appropriate adjustments shall be made to suit the manufacturer's product size.

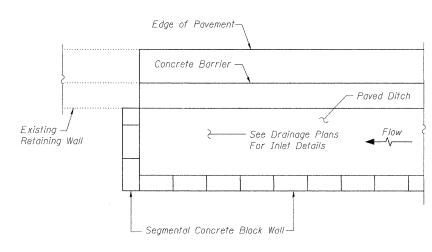
Excavation, granular backfill, concrete blocks, concrete leveling pad shown in plans and other accessories shall be included in the pay item "Segmental Concrete Block Wall"

All cast in place concrete shall have a minimum compressive strength f'c of 3,500 psi.

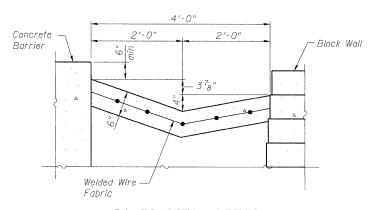
Reinforcement bars shall conform to the requirements of ASTM A 706 Gr 60. See Special Provisions.

Reinforcement bars designated (E) shall be epoxy coated. Reinforcement bars and support slab concrete to be provided per above detail shall be included in the contract cost per foot for "Concrete Barrier, Single Face, 42 Inch Height".

Welded wire fabric shall be included in "Paved Ditch (Special)".
Contractor shall submit construction drawings for parapet showing joints and reinforcement details for Engineer's approval.
Ditch shape to match that of Type 9 inlet grate.



DETAIL A



PAVED DITCH DETAIL

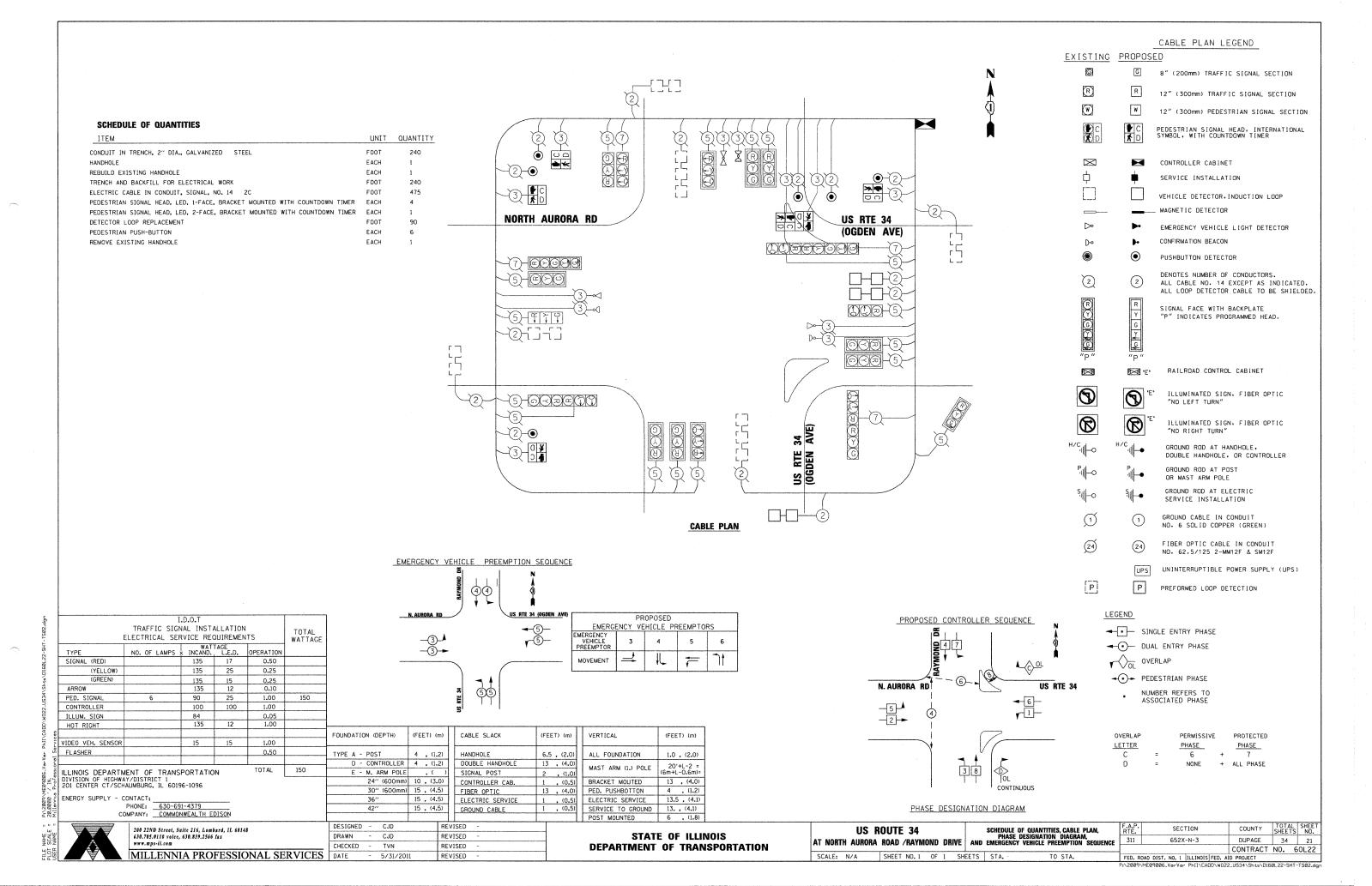
LIN ENGINEERING,LTD.

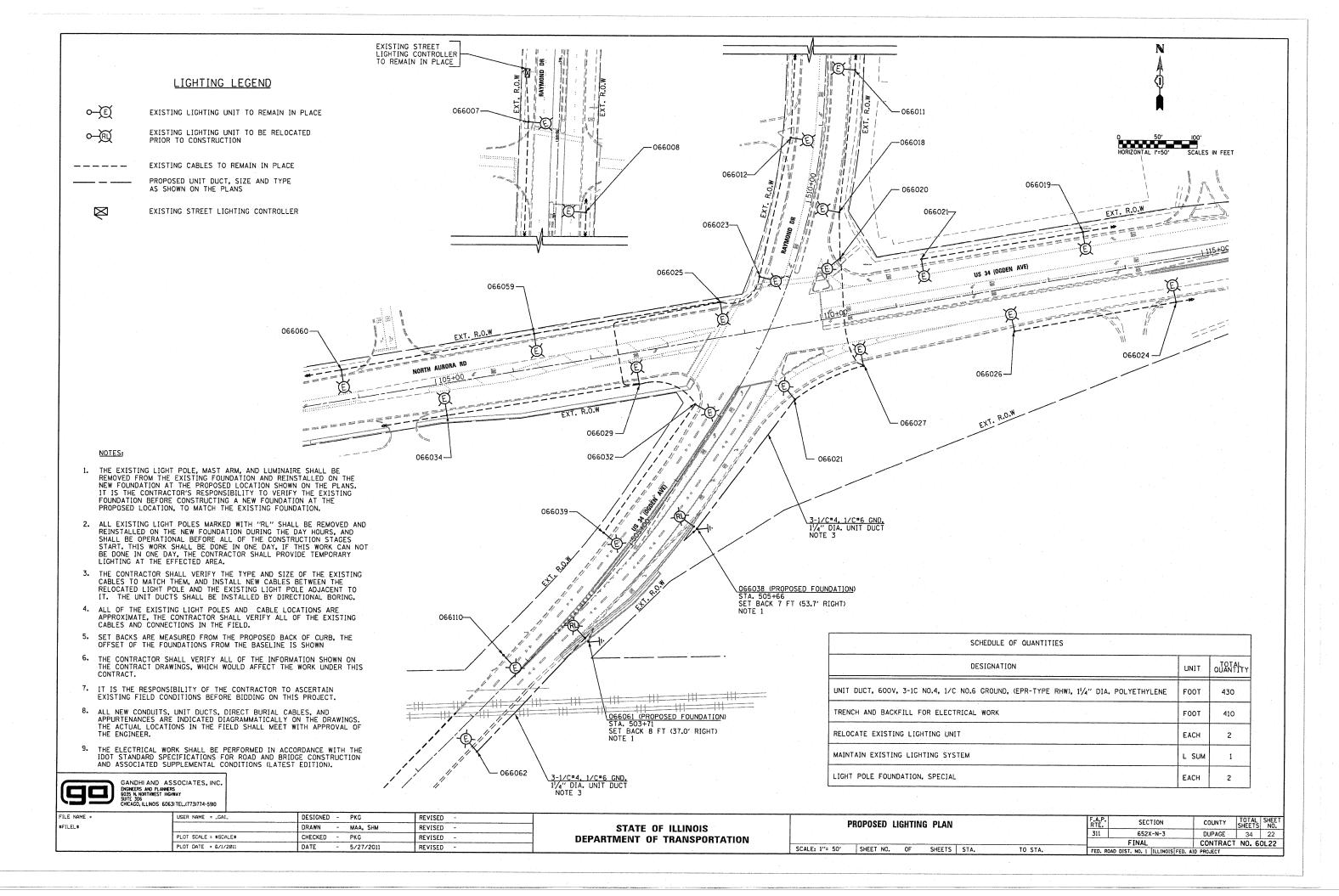
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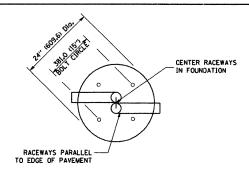
US ROUTE 34										
AT NORTH AURORA ROAD /RAYMOND DRIV	Æ									
STA. 503+33.00 TO STA. 504+92.90										

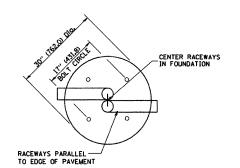
	DETAILS												
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	F.A.P. RTE.			SI	EC1	TION	-	COU	NTY	TOTAL SHEETS	SHEET NO.	
	311 652X-N-3								DUP	AGE	34	20
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	FED. RO	DAD E	IST.	NO.	1	ILLINOIS	FED.	All	PROJE	CT		









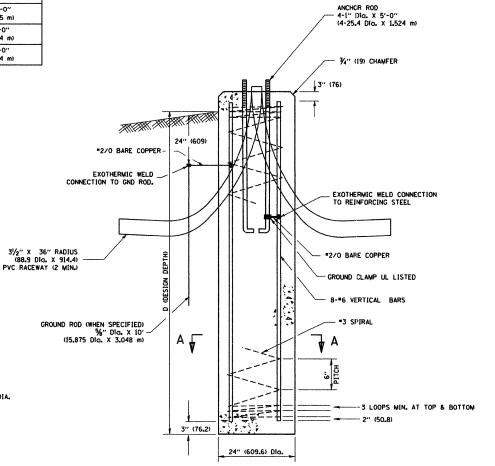
LIGHT POLE FOUNDATION DEPTH TABLE 40 FT. (12.192 m) TO 47.5 FT. (14.478 m) MOUNTING HEIGHT

	DESIGN DEPTH "	DESIGN DEPTH "D" OF FOUNDATION						
SOIL CONDITIONS	SINGLE ARM POLE	TWIN ARM POLE						
SOFT CLAY Ou = 0.375 TON/SO. FT.	13'-0" (3.96 m)	15'-0" (4.57 m)						
MEDIUM CLAY Ou = 0.75 TON/SO.FT	9'-6" (2,09 m)	10'-9" (3 ₄ 23 m)						
STIFF CLAY Ou = 1.50 TON/SO. FT.	7'-0'' (2 . 13 m)	8'-0" (2,44 m)						
LOOSE SAND Ø = 34°	9'-0'' (2.74 m)	10'-0" (3,05 m)						
MEDIUM SAND Ø = 37.5°	8'-3'' (2,52 m)	9'-0" (2.74 m)						
DENSE SAND Ø = 40°	7'-9'' (2.36 m)	9'-0" (2.74 m)						

6" (152,4)

THREADED

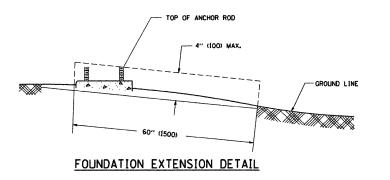




NOTES

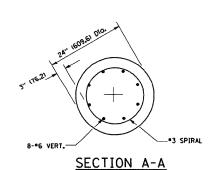
- 1. ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN.
- THE ANCHOR RODS AND RACEWAYS SHALL BE PROPERLY SECURED IN PLACE BEFORE THE CONCRETE IN PLACED.
- 3. THE FOUNDATION SHALL NOT PROTRUDE MORE THAN 100MM (4 IN.) ABOVE THE FINISHED GRADE WITHIN A 60 IN. (1.5 m) CHORD ACROSS THE FOUNDATION, WITH ANCHOR RODS INCLUDED, IN ACCORDANCE WITH AASHTO GUIDELINES. IF THE FOUNDATION HEIGHT, INCLUDING ANCHOR RODS, EXTENDS BEYOND THESE SPECIFIED LIMITS, THE FOUNDATION SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE. SEE FOUNDATION EXTENSION DETAIL.
- 4. THE HOLE FOR THE FOUNDATION SHALL BE MADE BY DRILLING WITH AN AUGER, OF THE SAME DIAMETER AS THE FOUNDATION. IF SOIL CONDITIONS REQUIRE THE USE OF A LINER TO FORM THE HOLE, THE LINER SHALL BE WITHDRAWN AS THE CONCRETE IS DEPOSITED.
- THE TOP OF THE FOUNDATION SHALL BE CONSTRUCTED LEVEL. A LINER OR FORM SHALL BE USED TO PRODUCE A UNIFORM SMOOTH SIDE TO THE TOP OF THE FOUNDATION, FOUNDATION TOP SHALL BE CHAMFERED 1/4-IN. (20 mm).
- THE CONCRETE SHALL BE CLASS SI. CONCRETE SHALL CURE ACCORDING TO ARTICLE 1020,13 BEFORE LIGHT POLES ARE INSTALLED.
- 7. THE ANCHOR ROD SHALL BE A HOOK ROD TYPE, COLD BENDING OF THE ANCHOR ROD WILL NOT BE ALLOWED. THE RADIUS OF THE HOOK BEND SHALL NOT BE LESS THAN 4 TIMES THE NOMINAL DIAMETER OF THE ANCHOR ROD. A TACK WELDED ANCHOR ROD MAY BE SUBSTITUTED WITH THE APPROVAL OF THE ENCINEER.
- THE ANCHOR RODS SHALL BE ACCORDING TO ASTM F1554 GRADE 725 (GRADE 105). NUTS SHALL BE HEXAGON NUTS ACCORDING TO ASTM A 194 2H OR ASTM A 563 DH, AND WASHERS SHALL BE ACCORDING TO ASTM F 436.
- ANCHOR RODS, NUTS AND WASHERS SHALL BE COMPLETELY GALVANIZED BY EITHER THE HOT-DIPPED PROCESS CONFORMING WITH AASHTO M 232, THE MECHANICAL PLATING METHOD CONFORMING TO AASHTO M 298, CLASS 50 WITH A MAXIMUM COATING THICKNESS OF 150 UM(6 MILS) OR THE ELECTROLYTIC PROCESS ACCORDING TO ASTM F 1136.
- 10. THE ANCHOR RODS SHALL BE THREADED A MINIMUM OF 6 INCHES (150 mm) WITH A MINIMUM OF 3 INCHES (75 mm) OF THREADED ANCHOR ROD EMBEDDED IN THE FOUNDATION.
- 11. ANCHOR RODS SHALL PROJECT 2¾4" (69,9 mm) ABOVE THE TOP OF THE FOUNDATION, IF BREAKAWAY COUPLINGS ARE SPECIFIED, THE CONTRACTOR SHALL CAREFULLY COORDINATE THE ANCHOR ROD PROJECTION WITH THE INSTALLATION REQUIREMENTS OF THE BREAKAWAY COUPLINGS.
- THE CONTRACTOR SHALL USE A *3 SPIRAL AT 6" (152.4 mm) PITCH OR MAY SUBSTITUTE *3 TIES AT 12" (304.8 mm) O.C. WITH THE APPROVAL OF THE ENGINEER.
- 13. THE CABLE TRENCHES AND FOUNDATION SHALL BE BACK FILLED AND COMPACTED AS SPECIFIED BEFORE THE LIGHT POLE IS ERECTED.
- 14. THE RACEWAYS SHALL PROJECT 1" (25.4 mm) ABOVE THE TOP OF THE FOUNDATION.

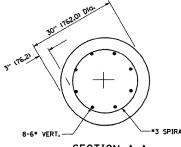
FOUNDATION DETAIL



5" (127.0)

ANCHOR ROD DETAIL





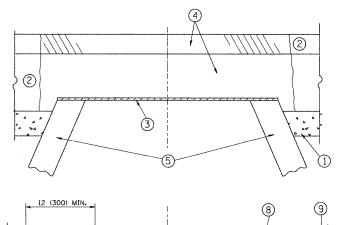
SECTION A-A

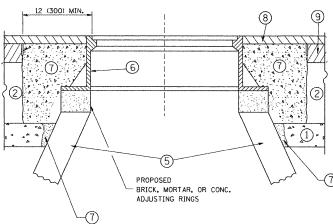
THIS FOUNDATION DETAIL IS FOR INFORMATION ONLY. IT IS THE CONTRACTOR'S RESPONSIBILITY TO VERIFY THE EXISTING FOUNDATION AND BOLT CIRCLE, AND CONSTRUCT NEW FOUNDATION AND BOLT CIRCLE TO MATCH THE EXISTING

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	PLOT DATE = 1/4/2008	DATE -	REVISED -

- RADIUS NOT LESS THAN
4 TIMES NOMINAL ROD DIA.

	LIGHT POLE FOUN	DATION		F.A.P. RTE.	SECTION	COUNTY	TOTAL	SHEET NO.
40' /12 10	92 m) TO 47 1/2' (14.478 m) M.I	1 mm) ROLT CIRCLE	311	652X-N-3	DUPAGE	34	23	
		1. 10 100	****		BE-301	CONTRACT	NO. 6	0L22
SCALE: NONE	SHEET NO. 1 OF 1 SHEETS	STA.	TO STA.	FEO. RC	DAD DIST. NO. 1 ILLINOIS FED. A	D PROJECT		





EXISTING BROKEN FRAMES AND LIDS SHALL BE REMOVED AND DISPOSED OF BY THE CONTRACTOR AND SHALL BE REPLACED AS DIRECTED BY THE ENGINEER. REPLACEMENT FRAMES AND LIDS WILL BE PAID FOR IN ACCORDANCE WITH ARTICLE 109.04 OF THE STANDARD SPECIFICATIONS UNLESS A SEPARATE PAY ITEM HAS BEEN PROVIDED.

IF THE EXISTING LIDS ARE OPEN, THE FRAME WILL BE ADJUSTED TO THE ELEVATION OF THE MILLED PAVEMENT SURFACE PRIOR TO THE MILLING OPERATION. THE FRAME WILL NOT BE REMOVED AND COVERED BY THE METAL PLATE.

CITY OF CHICAGO CASTINGS ARE THE PROPERTY OF THE CITY AND THE CONTRACTOR SHALL NOTIFY THE CITY FOR REMOVAL AND DISPOSITION OF THE CASTINGS.

THE METAL PLATE USED TO COVER THE STRUCTURE SHALL REMAIN THE PROPERTY OF THE CONTRACTOR.

WHEN STRUCTURES ARE TO BE ADJUSTED OR RECONSTRUCTED, THE LOWERING AND RAISING OF THE FRAMES AND LIDS WILL NOT BE PAID FOR SEPARATELY BUT WILL BE INCLUDED IN THE COST OF THE CORRESPONDING PAY ITEM.

CONSTRUCTION PROCEDURES

STAGE 1 (BEFORE PAVEMENT MILLING)

- A) REMOVE A MINIMUM OF 12 (300) OF THE PAVEMENT FROM AROUND THE STRUCTURE.

 B) REMOVE THE EXISTING FRAME AND LID FROM THE STRUCTURE.
- C) COVER THE STRUCTURE OPENING WITH A 36 (900) DIAMETER
- METAL PLATE.
- D) BACKFILL WITH CRUSHED STONE AND A MINIMUM 11/2 (40) THICK HMA SURFACE MIX APPROVED BY THE ENGINEER.

STAGE 2 (AFTER PAVEMENT MILLING)

- A) REMOVE THE HMA SURFACE MIX AND CRUSHED STONE.
- B) INSTALL THE FRAME AND LID; ADJUST THE FRAME TO ITS FINAL SURFACE ELEVATION.
- C) THE SURROUNDING SPACE SHALL BE FILLED WITH CLASS *P CONCRETE EXISTING BASE COURSE OR THE BINDER COURSE.
- * THE CLASS OF PP CONCRETE WILL BE AS DIRECTED BY THE ENGINEER.

THE PROCEDURE EXPLAINED ABOVE SHALL CONFORM TO THE APPLICABLE PORTIONS OF SECTIONS 353, 406, 602, AND 603 OF THE STANDARD SPECIFICATIONS.

LEGEND

- SUB-BASE GRANULAR MATERIAL
- 6 FRAME AND LID (SEE NOTES)
- 2 EXISTING PAVEMENT
- 7 CLASS PP* CONCRETE
- 3 36 (900) DIAMETER METAL PLATE
- PROPOSED CRUSHED STONE AND HMA SURFACE MIX
- (8) PROPOSED HMA SURFACE COURSE
- (5) EXISTING STRUCTURE
- (9) PROPOSED HMA BINDER COURSE

LOCATION OF STRUCTURES:

THE CONTRACTOR WILL BE REQUIRED TO KEEP A RECORD OF THE LOCATIONS OF THE BURIED STRUCTURES ACCORDING TO THE STATION AND DISTANCE LEFT OR RIGHT OF THE CENTERLINE OF PAVEMENT. UPON COMPLETION OF THE WORK, THE CONTRACTOR WILL DELIVER THE RECORD TO THE ENGINEER.

BASIS OF PAYMENT: THIS WORK WILL BE PAID FOR AT THE CONTRACT UNIT PRICE PER EACH FOR "FRAMES AND LIDS TO BE ADJUSTED, SPECIAL" NEW FRAMES AND LIDS, WHEN SPECIFIED, WILL BE PAID FOR SEPARATELY.

DETAILS FOR FRAMES AND LIDS ADJUSTMENT WITH MILLING

ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN

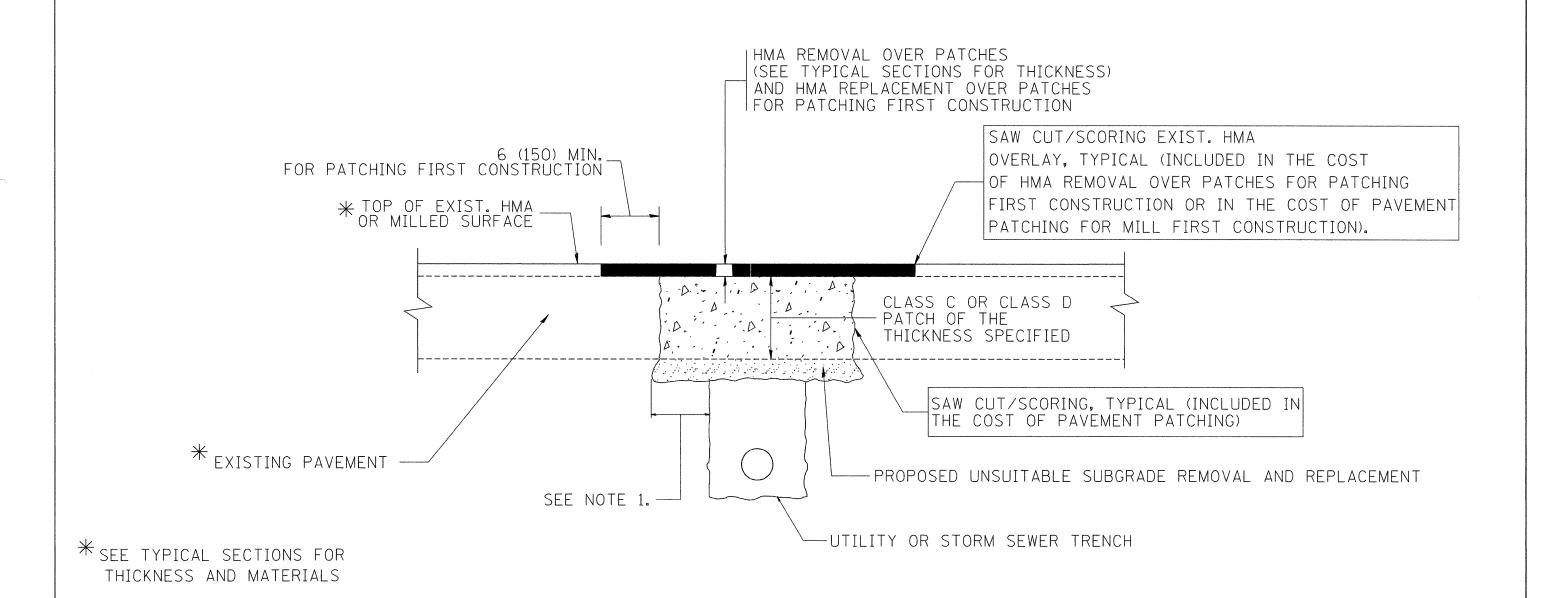
FILE NAME =	USER NAME = leyee	DESIGNED	-	R. SHAH	REVISED	- A. ABBAS 03-21-97
c:\pw_work\pwidot\leyso\d0108315\bd08.dg	h	DRAWN	-		REVISED	- R. WIEDEMAN 05-14-04
	PLOT SCALE = 49.9999 '/ IN.	CHECKED	-		REVISED	- R. BORO 01-01-07
	PLOT DATE = 2/4/2011	DATE	-	10-25-94	REVISED	- R. BORO 02-01-11

STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION**

DETAILS FOR											
	FRAMES	AND	LIDS	ADJUSTM	ENT WITH	MILLING					
SCALE: NONE	SHEET NO). 1	OF 1	SHEETS	STA.	TO STA.					

COUNTY TOTAL SHEETS NO.

DUPAGE 34 24 SECTION CONTRACT NO. 60L22 BD600-03 (BD-8)



NOTES:

- 1. THE WIDTH OF THE FULL DEPTH PATCH OVER A TRENCH SHALL BE 12 (300) WIDER ON EACH SIDE OF THE TRENCH.
- 2. FOR METHOD OF MEASUREMENT AND BASIS OF PAYMENT, SEE RECURRING SPECIAL PROVISION "PATCHING WITH HOT-MIX ASPHALT OVERLAY REMOVAL".

SEQUENCE OF CONSTRUCTION (PATCHING FIRST)

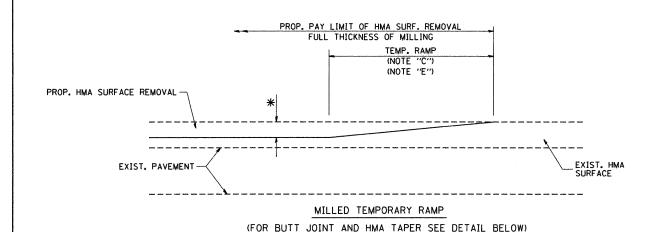
- 1. REMOVE THE EXISTING HMA MATERIAL OVER THE AREA TO BE PATCHED.
- 2. REMOVE AND REPLACE WITH CLASS C OR D PATCH.
- 3. REPLACE HMA MATERIAL OVER THE AREA TO BE PATCHED.

SEQUENCE OF CONSTRUCTION (MILLING FIRST)

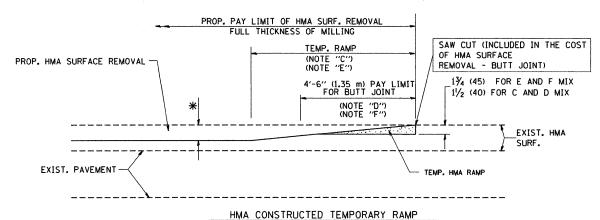
- 1. MILL HMA FIRST IF THERE IS AT LEAST 41/2 INCHES OR MORE OF HMA MATERIAL ON TOP OF THE EXISTING PAVEMENT OR IF THE PAVEMENT IS FULL DEPTH HMA. A MINIMUM OF 2 INCHES OF HMA MATERIAL SHALL BE IN PLACE AFTER MILLING.
- 2. REMOVE AND REPLACE WITH FULL DEPTH CLASS D PATCHES TO TOP OF MILLED SURFACE.

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

FILE NAME =	USER NAME = bauerdl	DESIGNED - R. SHAH	REVISED - A. ABBAS 04-27-98		PAVEMENT PATCHING FOR	F.A.P. SECTION	COUNTY TOTAL SHEET
c:\projects\diststd22x34\bd22.dgn		DRAWN -	REVISED - R. BORO 01-01-07	STATE OF ILLINOIS	HMA SURFACED PAVEMENT	311 652X-N-3	DUPAGE 34 25
	PLOT SCALE = 50.000 '/ IN.	CHECKED -	REVISED - R. BORO 09-04-07	DEPARTMENT OF TRANSPORTATION			CONTRACT NO. 60L22
	PLOT DATE = 10/27/2008	DATE - 10-25-94	REVISED - K. ENG 10-27-08		SCALE: NONE SHEET NO. 1 OF 1 SHEETS STA. TO STA.	FED. ROAD DIST. NO. 1 ILLINOIS FED. A	AID PROJECT



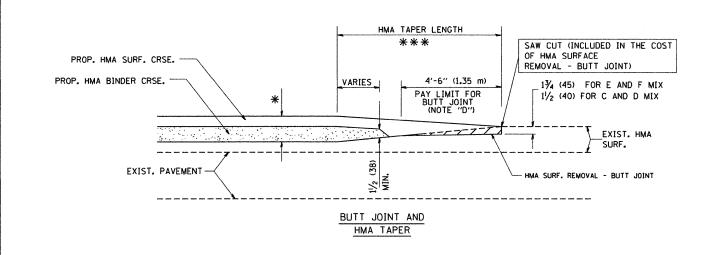
OPTION 1



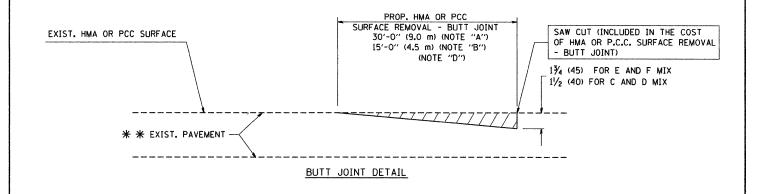
(FOR BUTT JOINT AND HMA TAPER SEE DETAIL BELOW)

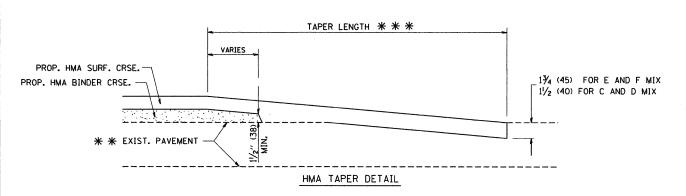
OPTION 2

TYPICAL TEMPORARY RAMP



TYPICAL BUTT JOINT AND HMA TAPER FOR MILLING AND RESURFACING





TYPICAL BUTT JOINT AND HMA TAPER FOR RESURFACING ONLY

* * PC CONCRETE, HMA OR HMA RESURFACED PAVEMENT.

NOTES

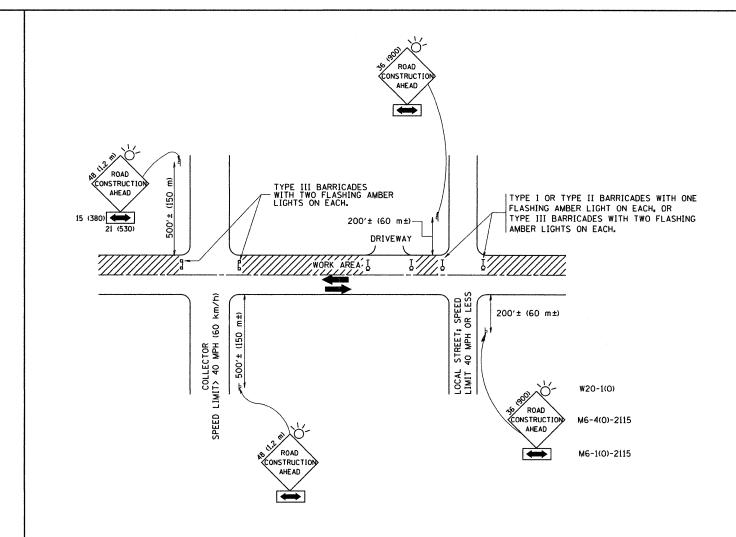
- A: MAINLINE ROADWAYS AND MAJOR SIDE ROADS.
- B: MINOR SIDE ROADS.
- C: THE TEMP. RAMP SHALL BE CONSTRUCTED IMMEDIATELY UPON REMOVAL OF THE EXISTING HMA SURFACE.
- D: THE BUTT JOINT SHALL BE CONSTRUCTED IMMEDIATELY PRIOR TO PLACING THE PROPOSED HMA COURSES.
- E: TAPER THE TEMP. RAMP AT A RATE OF 3'-0" (900 mm) PER 1 INCH (25 mm) OF MILLING THICKNESS.
- F: INSTALLATION AND REMOVAL OF THE 4'-6" (1.35 m) TEMP. RAMP IS INCLUDED IN COST OF HMA SURFACE REMOVAL BUTT JOINT
- G: SEE ARTICLE 406.08 AND 406.14 OF THE STANDARD SPECIFICATIONS FOR "HMA AND/OR PCC SURFACE REMOVAL, BUTT JOINT".
- * SEE TYPICAL SECTIONS FOR MILLING THICKNESS.
- ** * 20'-0" (6.1 m) PER 1 (25) RESURFACING (NOTE "A") 10'-0" (3.0 m) PER 1 (25) RESURFACING (NOTE "B")

BASIS OF PAYMENT:

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

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

FILE NAME =	USER NAME = gaglianobt	DESIGNED - M. DE YONG	REVISED - R. SHA	H 10-25-94			BUTT JOINT	AND	F.A.P.	SECTION	COUNTY	TOTAL SHEE
W:\diststd\22x34\bd32.dgn		DRAWN -	REVISED - A. ABB	AS 03-21-97	STATE OF ILLINOIS				311	652X-N-3	DUPAGE	34 26
	PLOT SCALE = 50.0000 '/ IN.	CHECKED -	REVISED - M. GON	EZ 04-06-01	DEPARTMENT OF TRANSPORTATION		HMA TAPER D				NO. 60L22	
·	PLOT DATE = 1/4/2008	DATE - 06-13-90	REVISED - R. BOR	0 01-01-07	SCAL		SHEET NO. 1 OF 1 SHEETS	STA. TO STA.	FED. ROAD DIST. NO. 1 ILLINOIS FED. A			



TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS

NOTES:

- A. FOR NO LANE RESTRICTION ON THE SIDE ROAD OR DRIVEWAYS
- 1. SIDE ROAD WITH A SPEED LIMIT OF 40 MPH (60 km/h) OR LESS AS SHOWN ON THE DRAWING AND AS DIRECTED BY THE ENGINEER:
- O) ONE ROAD CONSTRUCTION AHEAD SIGN 36 x 36 (900x900) WITH A FLASHER AND FLAG MOUNTED ON IT APPROXIMATELY 200' (60 m) IN ADVANCE OF THE MAIN ROUTE.
- b) THE CLOSED PORTION OF THE MAIN ROUTE SHALL BE PROTECTED BY BLOCKING WITH TYPE I, TYPE II OR TYPE III BARRICADES, 1/3 OF THE CROSS SECTION OF THE CLOSED PORTION.
- 2. SIDE ROAD WITH A SPEED LIMIT GREATER THAN 40 MPH (60 km/h) AS SHOWN ON THE DRAWING AND AS DIRECTED BY THE ENGINEER:
- d) ONE ROAD CONSTRUCTION AHEAD SIGN 48 x 48 (1.2 m x 1.2 m) WITH A FLASHER MOUNTED ON IT APPROXIMATELY 500' (150 m) IN ADVANCE OF THE MAIN ROUTE.
- b) THE CLOSED PORTION OF THE MAIN ROUTE SHALL BE PROTECTED BY BLOCKING WITH TYPE III BARRICADES, 1/2 OF THE CROSS SECTION OF THE CLOSED PORTION.
- 3. WHEN THE SIDE ROAD LIES BETWEEN THE BEGINNING OF THE MAINLINE SIGNING AND THE WORK ZONE, A SINGLE HEADED ARROW (MG-1) SHALL BE USED IN LIEU OF THE DOUBLE HEADED ARROW (MG-4).

SCALE: NONE

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

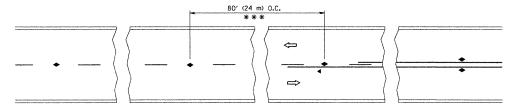
All dimensions are in millimeters (inches) unless otherwise shown.

FILE NAME = USER NAME = gaglienobt DESIGNED - LHA REVISED - J. OBERLE 10-18-95
Wi\diststd\22x34\tal0.dgn - DRAWN - REVISED - A. HOUSEH 03-06-96
PLOT SCALE = 50.000 '/ IN. CHECKED - REVISED - A. HOUSEH 10-15-96
PLOT DATE = 1/4/2008 DATE - 06-89 REVISED - T. RAMMACHER 01-06-00

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

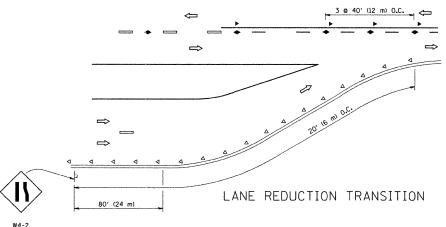
TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS

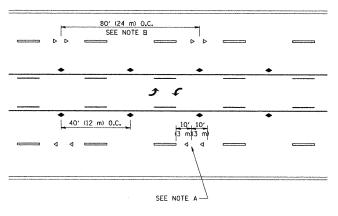
SHEET NO. 1 OF 1 SHEETS STA. TO



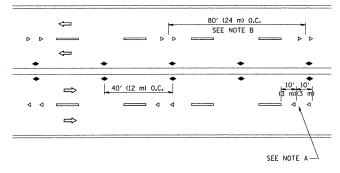
*** REDUCE TO 40' (12 m) O.C. ON CURVES WITH POSTED OR ADVISORY SPEED 45 M.P.H. (70 km/h) OR LESS.

TWO-LANE/TWO-WAY

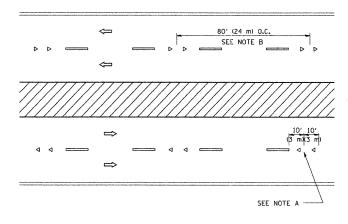




TWO-WAY LEFT TURN



MULTI-LANE/UNDIVIDED



MULTI-LANE/DIVIDED

GENERAL NOTES

- 1. MARKERS USED WITH DASHED LINES SHALL BE CENTERED IN THE GAP BETWEEN SEGMENTS.
- 2. MARKERS USED ADJACENT TO SOLID LINES SHALL BE OFFSET 2 TO 3 (50 TO 75) TOWARD TRAFFIC AS SHOWN.
- MARKERS THROUGH TANGENTS LESS THAN 500' (150 m) IN LENGTH BETWEEN CURVES SHALL BE INSTALLED AT THE LESSER OF THE TWO CURVE SPACINGS.

LANE MARKER NOTES

- A. USE DOUBLE LANE LINE MARKERS SPACED AS SHOWN.
- B. REDUCE TO 40' (12 m) O.C. ON CURVES WHERE ADVISORY SPEEDS ARE 10 M.P.H (20 km/h) LOWER THAN POSTED SPEEDS.

SYMBOLS

- ---- YELLOW STRIPE
- WHITE STRIPE
- ONE-WAY AMBER MARKER
- ONE-WAY CRYSTAL MARKER (W/O)
- ◆ TWO-WAY AMBER MARKER

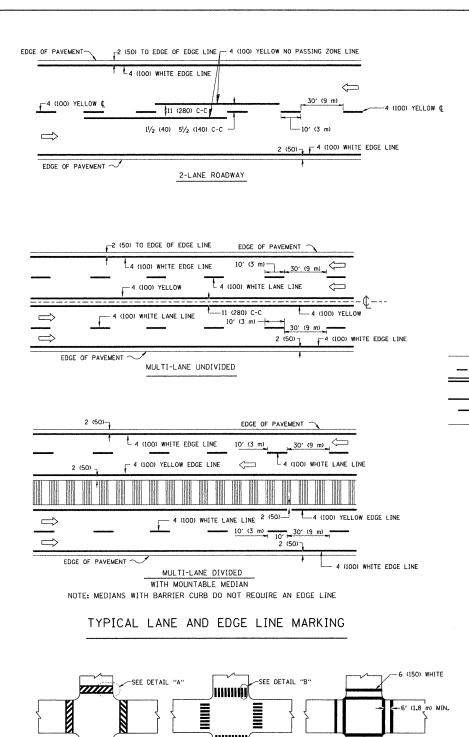
DESIGN NOTES

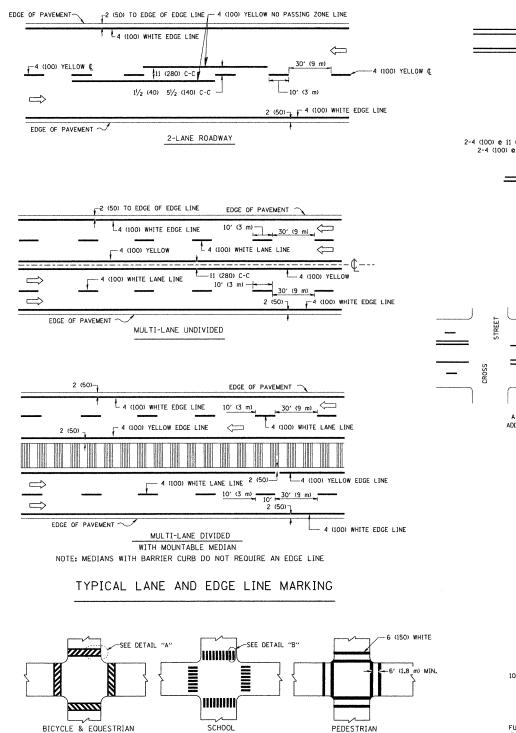
- 1. DOUBLE LANE LINE MARKERS SHALL BE USED UNLESS SPECIFIED OTHERWISE.
- 2. EXCEPT AS SHOWN ON THE LANE REDUCTION TRANSITION AND FREEWAY EXIT RAMP DETAIL, MARKERS ARE NOT TO BE SPECIFIED ON RIGHT EDGE
- 3. THE EXACT MARKER LIMITS, SPACING, AND COLOR SHOULD BE INCLUDED IN THE PLANS.
- MARKERS SHOULD NOT BE USED ALONGSIDE CURBS EXCEPT FOR EXTREMELY SHORT SECTIONS OF CURBS WHERE NOT MORE THAN TWO MARKERS WOULD BE INVOLVED.

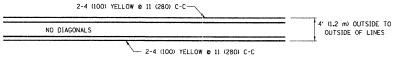
LEFT TURN

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

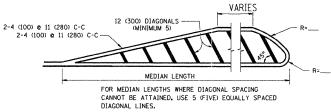
FILE NAME =	USER NAME = drivakosgn	DESIGNED -	REVISED -	-T. RAMMACHER 09-19-94			TYPICAL APPLICA	TIONE		F.A.P.	SECTION	COUNTY	TOTAL SHEET
c:\pw_work\pwidot\drivakosgn\d0108315\tc	1.dgn	DRAWN ~	REVISED -	T. RAMMACHER 03-12-99	STATE OF ILLINOIS					311	652X-N-3	DUPAGE	34 28
	PLOT SCALE = 50.000 '/ IN.	CHECKED -	REVISED -	T. RAMMACHER 01-06-00	DEPARTMENT OF TRANSPORTATION	RAISED	REFLECTIVE PAVEMENT MARKER	is (snow-plow	/ RESISTANT)		TC-11		T NO. 60L22
	PLOT DATE = 9/9/2009	DATE -	REVISED -	~ C. JUCIUS 09-09-09		SCALE: NONE	SHEET NO. 1 OF 1 SHEETS	STA.	TO STA.	FED. ROAD DI	ST. NO. 1 ILLINOIS FED. A	L	





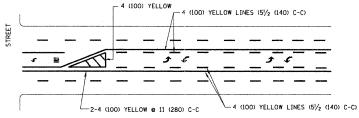


4' (1.2 m) WIDE MEDIANS ONLY

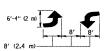


DIAGONAL LINE SPACING: 50' (15 m) C-C (LESS THAN 30MPH (50 km/h)) 75' (25 m) C-C 30MPH (50 km/h) TO 45MPH (70 km/h)) 150' (45 m) C-C (MORE THAN 45MPH (70 km/h))

MEDIANS OVER 4' (1.2 m) WIDE

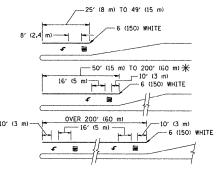


A MINIMUM OF TWO PAIRS OF TURN ARROWS SHALL BE USED, WHITE IN COLOR. ADDITIONAL PAIRS SHALL BE PLACED AT 200' (60 m) TO 300' (90 m) INTERVALS.



MEDIAN WITH TWO-WAY LEFT TURN LANE

TYPICAL PAINTED MEDIAN MARKING

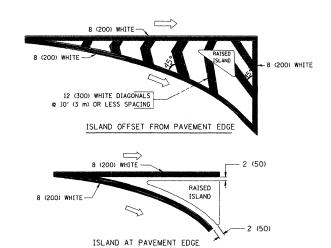


FULL SIZE LETTERS 8' (2.4 m) AND ARROWS SHALL BE USED. \P AREA = 15.6 SO. FT. (1.5 m²) \P AREA = 20.8 SQ. FT. (1.9 m²)

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

TYPICAL LEFT (OR RIGHT) TURN LANE

TYPICAL TURN LANE MARKING



TYPICAL ISLAND MARKING

TYPE OF MARKING	WIDTH OF LINE	PATTERN	COLOR	SPACING / REMARKS
CENTERLINE ON 2 LANE PAVEMENT	4 (100)	SKIP-DASH	YELLOW	10' (3 m) LINE WITH 30' (9 m) SPACE
CENTERLINE ON MULTI-LANE UNDIVIDED PAVEMENT	2 @ 4 (100)	SOLID	YELLOW	11 (280) C-C
NO PASSING ZONE LINES: FOR ONE DIRECTION FOR BOTH DIRECTIONS	4 (100) 2 @ 4 (100)	SOLID SOLID	YELLOW YELLOW	5½ (140) C-C FROM SKIP-DASH CENTERLINE 11 (280) C-C OMIT SKIP-DASH CENTERLINE BETWEEN
LANE LINES	4 (100) 5 (125) ON FREEWAYS	SKIP-DASH SKIP-DASH	WHITE WHITE	10' (3 m) LINE WITH 30' (9 m) SPACE
DOTTED LINES (EXTENSIONS OF CENTER, LANE OR TURN LANE MARKINGS)	SAME AS LINE BEING EXTENDED	SKIP-DASH	SAME AS LINE BEING EXTENDED	2' (600) LINE WITH 6' (L8 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; 5½ (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 SEE TYPICAL CROSSWALK MARKING DETAILS.
STOP LINES	24 (600)	SOLID	WHITE	PLACE 4' (1.2 m) IN ADVANCE OF AND PARALLEL TO CROSSWALK, IF PRESENT. OTHERWISE, PLACE AT DESIRED STOPPING POINT. PARALLEL TO CROSSROAD CENTERLINE, WHERE POSSIBLE
PAINTED MEDIANS	2 @ 4 (100) WITH 12 (300) DIAGONALS @ 45° NO DIAGONALS USED FOR 4' (1.2 m) WIDE MEDIANS	SOLID	YELLOW: TWO WAY TRAFFIC WHITE: ONE WAY TRAFFIC	11 (280) C-C FOR THE DOUBLE LINE SEE TYPICAL PAINTED MEDIAN MARKING.
GORE MARKING AND CHANNELIZING LINES	8 (200) WITH 12 (300) DIAGONALS @ 45°	SOLID	WHITE	DIAGONALS: 15' (4,5 m) C-C (LESS THAN 30MPH (50 km/h)) 20' (6 m) C-C 30MPH (50 km/h) TO 45MPH (70 km/h)) 30' (9 m) C-C (OVER 45MPH (70 km/h))
RAILROAD CROSSING	24 (600) TRANSVERSE LINES: "RR" IS 6' (1.8 ml 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) @ 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.

FILE NAME =	USER NAME = drivakosgn	DESIGNED -	EVERS	REVISED	-T. RAMMACHER	10-27-94	
o:/pw_work/pwidot/drivakosgn/d0108315/to	13.dgn	DRAWN -		REVISED	-C. JUCIUS	09-09-09	
	PLOT SCALE = 50.000 '/ IN.	CHECKED -		REVISED	~		
	PLOT DATE = 9/9/2009	DATE -	03-19-90	REVISED	-		

DETAIL "A"

2' (600)

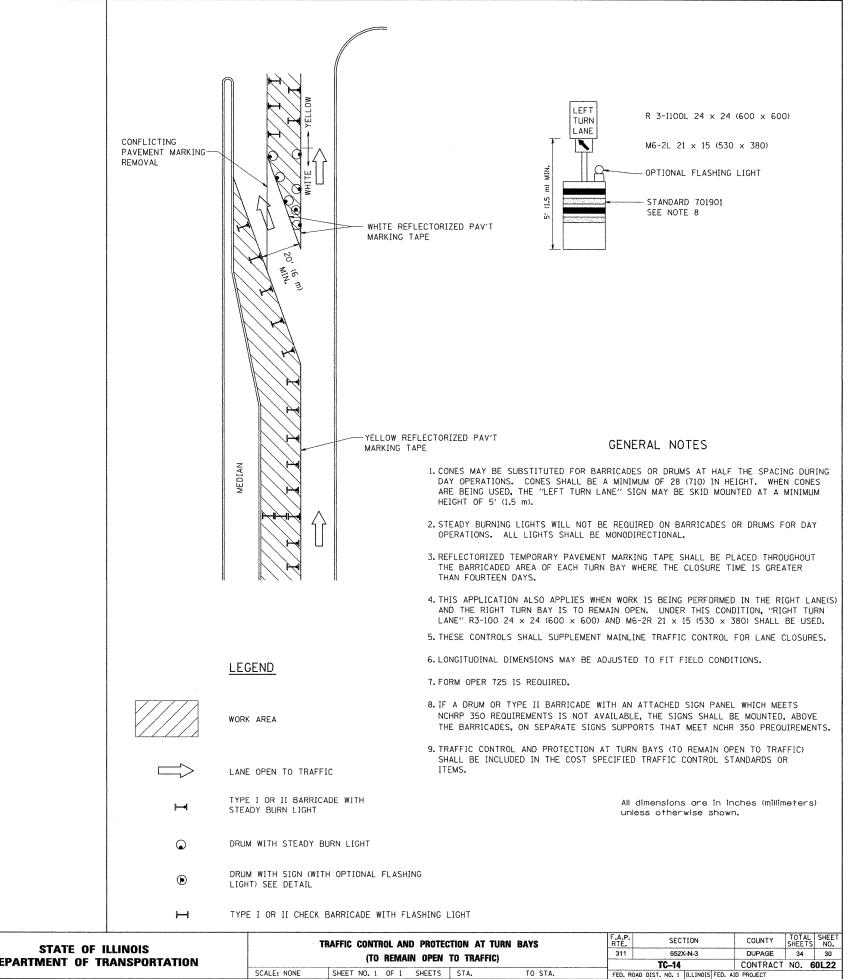
DETAIL "B"

TYPICAL CROSSWALK MARKING

___12 (300) WHITE

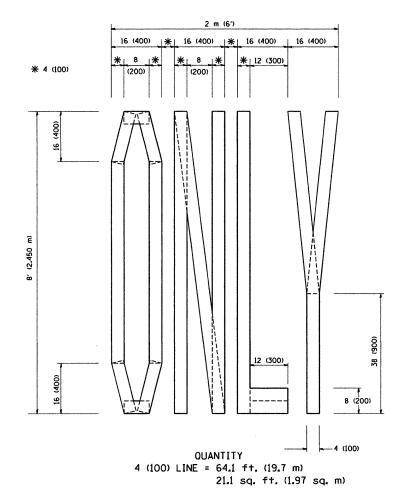
PEDESTRIAN

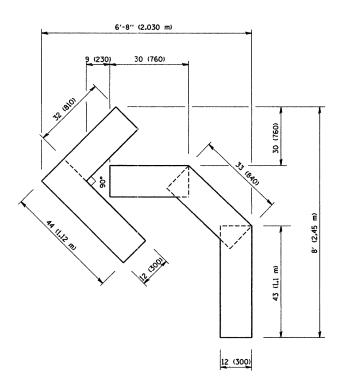
DISTRICT ONE TYPICAL PAVEMENT MARKINGS								F.A.P. SECTION		COUNTY	TOTAL SHEETS	SHEET NO.		
									311 652X-N-3		DUPAGE	34	29	
	TIPICAL PAVEIVIENT WANKINGS										TC-13	CONTRACT	NO. 6	0L22
SCALE: NONE SHEET NO. 1 OF 1 SHEETS STA. TO STA.								FED. RO	DAD DIST. NO. 1 ILLINOIS FED. A	ID PROJECT				



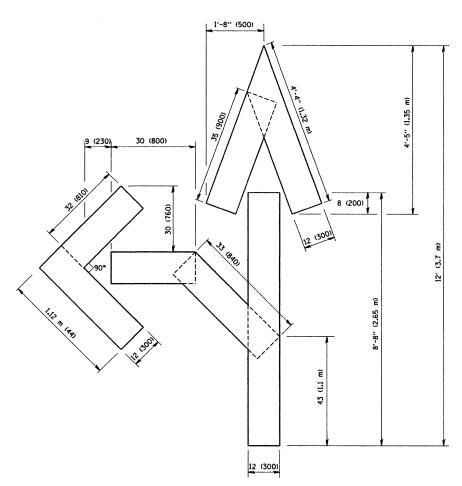
FILE NAME =	USER NAME = drivakosgn	REVISED	-T. RAMMACHER 09-08-94	REVISED	-	R. BORO	09-14-09
c:\pw_work\PWIDOT\DRIVAKOSGN\d0108315\ta	14.dgn	REVISED	- A. HOUSEH 11-07-95	REVISED	-		
	PLOT SCALE = 49.9999 '/ IN.	REVISED	- A. HOUSEH 10-12-96	REVISED	-		
	PLOT DATE = 9/14/2009	REVISED	-T. RAMMACHER 01-06-00	REVISED	-		

DEPARTMENT OF TRANSPORTATION





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

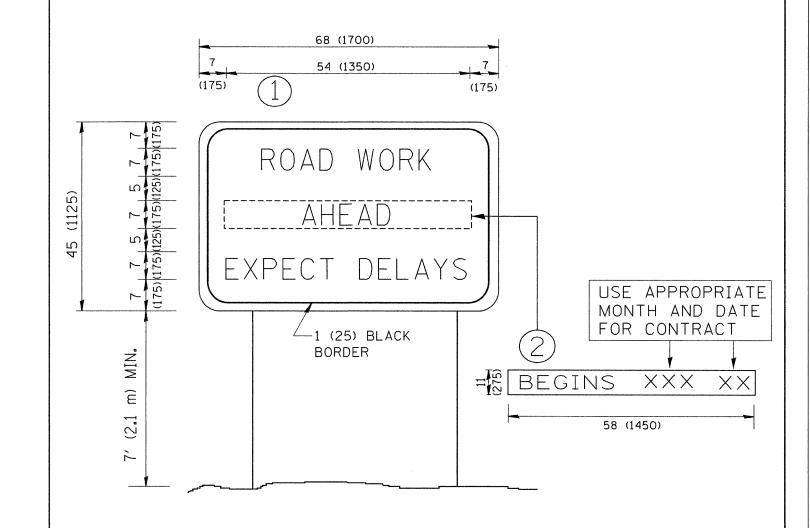


QUANTITY 4 (100) LINE = 82.5 ft. (25.3 m) 27.5 sq. ft. (2.53 sq. m)

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

FILE NAME =	USER NAME = gaglianobt	DESIGNED -	REVISED -T. RAMMACHER 06-05-96
W:\diststd\22x34\tc16.dgn		DRAWN -	REVISED -T. RAMMACHER 11-04-97
	PLOT SCALE = 50.0000 '/ IN.	CHECKED -	REVISED -T. RAMMACHER 03-02-98
	PLOT DATE = 1/4/2008	DATE - 09-18-94	REVISED - E. GOMEZ 08-28-00

PAVEMENT MARKING LETTERS AND SYMBOLS FOR TRAFFIC STAGING							SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
							652X-N-3	DUPAGE	34	31
		Un In	ALLIC SI		TC-16	CONTRACT	NO. 6	0L22		
SCALE: NONE	SHEET NO. 1	OF 1	SHEETS	STA.	TO STA.	FED. RO	DAD DIST. NO. 1 ILLINOIS FED. AT	D PROJECT		



NOTES:

- 1. USE BLACK LETTERING ON ORANGE BACKGROUND.
- 2. ERECT SIGNS IN ADVANCE OF THE LOCATION FOR THE "ROAD CONSTRUCTION AHEAD" SIGN AT LOCATIONS AS DIRECTED BY THE ENGINEER.
- 3. ERECT SIGN (1) WITH INSTALLED PANEL (2) ONE WEEK PRIOR TO THE START OF CONSTRUCTION.
- 4. REMOVE PANEL 2 SOON AFTER THE START OF CONSTRUCTION.
- 5. SEE SPECIAL PROVISION FOR "TEMPORARY INFORMATION SIGNING" FOR ADDITIONAL INFORMATION.
- 6. ONE SIGN ASSEMBLY EQUALS 25.70 SQ. FT. (2.3 SQ. M.)
- 7. SHALL BE PAID FOR AS TEMPORARY INFORMATION SIGNING.

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

FILE NAME =	USER NAME = gaglianobt	DESIGNED -	REVISED - R. MIRS 09-15-97		ARTERIAL ROAD INFORMATION SIGN				F.A.P.	SECTION	COUNTY
W:\diststd\22x34\tc22.dan		DRAWN -	REVISED - R. MIRS 12-11-97	STATE OF ILLINOIS					KIE.		
1	PLOT SCALE = 50,000 '/ IN.	CHECKED	DEVICED T DANKINGTO OF OF						311	652X-N-3	DUPAGE
}		CHECKED -	REVISED -T. RAMMACHER 02-02-99	DEPARTMENT OF TRANSPORTATION INFORMATION SIGN		j	TC22	CONTRACT			
	PLOT DATE = 1/4/2008	DATE -	REVISED - C. JUCIUS 01-31-07		SCALE: NONE	SHEET NO. 1 OF 1 SHEET	S STA.	TO STA.	FED. ROAD	DIST. NO. 1 ILLINOIS FED. A	

PROVIDE A PAVEMENT REPLACEMENT NOTE WHICH SHOULD EQUAL 3' (900 mm) X WIDTH OF PAVED SHOULDER. PAVED OR NON-PAVED SHOULDER 1'' (25 mm) UNIT DUCT TRENCHED TO E/P ** * = (600 mm) * * * UNIT DUCT IS TO BE SHOWN ON PLAN SHEETS BUT SHALL NOT BE INCLUDED IN THE PAY ITEMS.

** UNIT DUCT IS TO BE SHOWN ON PLAN SHEETS

NOTE: DUAL LEFT TURNS NOT SHOWN REFER TO PLAN SHEET FOR DETECTOR LOOP REPLACEMENT

BUT SHALL NOT BE INCLUDED IN THE PAY ITEMS.

(900 mm)

LEFT TURN LANES WITHOUT MEDIANS
VOLUME DENSITY ("FAR OUT" DETECTION)
ON SAME APPROACH

(PROTECTED / PERMITTED LEFT TURN PHASING)

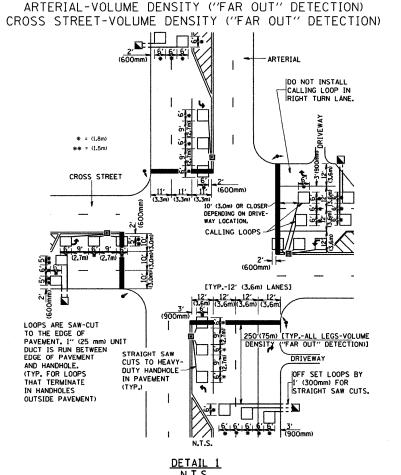
* = (600 mm)

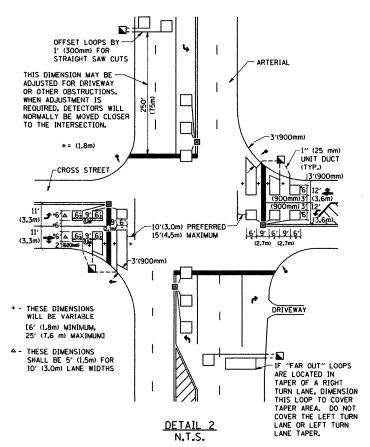
* = (600 mm)

* = (600 mm)

STRAIGHT SAW CUT TO HEAVY DUTY HANDHOLE (TYP). PLACE HEAVY DUTY HANDHOLE (TYP). PLACE HEAVY DUTY HANDHOLE BETWEEN FIRST AND SECOND LOOP AS SHOWN.

ARTERIAL-VOLUME DENSITY ("FAR OUT" DETECTION)
CROSS STREET-NON VOLUME DENSITY ("UPTIGHT" PRESENCE DETECTION)





SCALE: NONE

NOTES:

VEHICLES LOOP DETECTORS

- * ALL LEAD IN CABLE SHALL BE TWO CONDUCTOR NO. 14 TWISTED, SHIELDED.
- * EACH DETECTOR LOOP SHALL HAVE ITS OWN SAW CUT FROM THE LOOP TO THE EDGE OF PAVEMENT OR TO A HANDHOLE IN THE PAVEMENT.
- * EACH DETECTOR LOOP SHALL HAVE ITS OWN ONE INCH (25 mm) UNIT DUCT BETWEEN THE EDGE OF PAVEMENT AND THE FIRST HANDHOLE OR JUNCTION BOX. EACH UNIT DUCT RUN SHALL BE SHOWN ON THE PLANS BY THE DESIGNER, BUT SHALL NOT BE PAID FOR SEPARATLY. THIS ITEM IS INCIDENTAL TO THE PAY ITEM FOR DETECTOR LOOPS.
- * ONE DIMENSION OF <u>ALL</u> DETECTOR LOOPS SHALL BE SIX FEET (1.8 m)
- * EACH LANE OF NON-LOCKING, PRESENCE DETECTION AND EACH LANE OF A DOUBLE LEFT TURN LANE REQUIRES A SEPARATE INDUCTIVE LOOP DETECTOR AND LEAD IN CABLE.
- * WHEN NON-LOCKING, PRESENCE DETECTION IS USED, MORE
 THAN ONE LOOP PER LANE IS REQUIRED BEHIND THE STOP BAR
 (I.e. 1-1/2, 1-3/4, 2).
- * WHEN SYSTEM LOOPS ARE REQUIRED ON AN APPROACH OF AN INTERSECTION, THE LOOPS USED FOR VOLUME DENSITY AND INTERSECTION TIMING SHALL ALSO BE USED AS SYSTEM DETECTORS. EACH ONE OF THESE TYPE OF LOOPS REQUIRES A SEPARATE TWO CONDUCTOR NO. 14 TWISTED SHIELDED CABLE AND A SEPARATE INDUCTIVE LOOP DETECTOR WHEN NEW CONTROLLERS ARE UTILIZED. THE DESIGNER SHALL LABEL THESE TYPES OF LOOPS AS "INTERSECTION AND SAMPLING (SYSTEM) DETECTORS" ON THE SIGNAL LAYOUT, THE INTERCONNECT PLAN AND THE SYSTEM CABLE PLAN. WHEN AN EXISTING CONTROLLER IS UTILIZED FOR THIS TYPE OF DETECTION, THE PAY ITEM "INDUCTIVE LOOP DETECTOR WITH SYSTEM OUTPUT" SHOULD BE USED.

PLACEMENT OF DETECTORS

THE FOLLOWING FIGURES REPRESENT THE MOST COMMON DETECTOR LOOP LOCATIONS AND SIZES. ADJUSTMENTS WILL BE NECESSARY FOR SPECIFIC GEOMETRIC CONSIDERATIONS.

LOCATIONS AND DEMENSIONS OF DETECTOR LOOPS ARE REQUIRED ON $\underline{\text{ALL}}$ SIGNAL LAYOUT PLAN SHEETS.

"FAR OUT" DETECTION REFERS TO LOCKING, PRESENCE TYPE DETECTION LOCATED IN THRU LANES, RIGHT TURN LANES, AND RIGHT TURN LANE TAPER AREAS (IF APPLICABLE), USUALLY 250' (75 m) IN ADVANCE OF STOP BARS. "UPTIGHT" DETECTION REFERS TO NON-LOCKING PRESENCE TYPE DETECTION LOCATED IN ALL LANES AND 10'-15' (3.0 m-4.5 m) BEHIND THE CROSSING STREET'S EDGE OF PAVEMENT EXTENDED.

NOTE:

ALL DETAILS AND NOTES SHOWN ARE FROM THE I.D.O.T. DISTRICT 1
TRAFFIC SIGNAL DESIGN GUIDELINES DATED JANUARY 1995

THIS DRAWING HAS BEEN PREPARED TO ASSIST THE RESIDENT ENGINEER FOR ALL ROADWAY RESURFACING OR S.M.A.R.T. PROJECTS WHERE THE DIMENSIONS ARE NOT SHOWN ON THE PLANS AND THE FINAL LOCATIONS FOR CROSSWALKS OR STOP BARS ARE NOT DETERMINED.

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	PLOT DATE = 1/4/2008	DATE -	REVISED -						

 DISTRICT 1 - DETECTOR LOOP INSTALLATION						SECTION	COUNTY	TOTAL	SHEET NO.
DETAILS FOR ROADWAY RESURFACING					311	652X-N-3	DUPAGE	34	33
 DEIAILS FUR HUADYVAT RESURFACING						TS-07	CONTRACT	NO. 6	0L22
SHEET NO. 1	OF 1	SHEETS	STA.	TO STA.	FED. RO	DAD DIST. NO. 1 ILLINOIS FED. A	D PROJECT		

