FOR	INDEX	OF	SHEETS, S	SEE	SHE	ET	NO. 2
CRIC OF	NEUBAULA 2-059188		Eric Neubance	n	DATE	06/20	/20 19
PRO	ICENSED FESSIONAL NGINEER		1-12, 25-37				
11	L/N015	LICEN	SE EXPIRES NOV.				
STI	N J. ARCA	BY: HDR, DWGS,	Maria 12. INC. 13-15, 20-21, 24	4	OATE:	06/20	/2019
* ****	OF A A A A A A A A A A A A A A A A A A A		SE EXPIRES NOV.		2020		
1 I L	E J. CHEA P.OOI346 ICENSED MOSCAPE REHITECT *	ALTA	Jane che- MANU. INC. . 16-19, 22-23.	~	OATE:	06/20/	2019
A CONTRACTOR	LINOIS	LICEN	SE EXPIRES AUG	. 31, 2	2019		

09-20-2019 LETTING ITEM 005

### **DESIGN DESIGNATION:**

IL-390: EXPRESSWAY

**US ROUTE 20: OTHER PRINCIPAL ARTERIAL** 

**ROSELLE ROAD: OTHER PRINCIPAL ARTERIAL** 

PLUM GROVE ROAD: MAJOR COLLECTOR

**ROHLWING ROAD: MINOR ARTERIAL** 

TRAFFIC DATA **POSTED / DESIGN SPEED** (ADT) (2016) IL-390: 55 /60 MPH IL-390: 69,200 VPD US ROUTE 20: 40 /45 MPH US ROUTE 20: 38,000 VPD **ROSELLE ROAD: 40 /45 MPH ROSELLE ROAD: 25,700 VPD** PLUM GROVE ROAD: 30 /35 MPH PLUM GROVE ROAD: 8,200 VPD **ROHLWING ROAD: 40 /45 MPH BOHLWING BOAD: 18,500 VPD** ..... HAVE BEEN PREPAREO USING STANDARO FULL SIZE PLANS ENGINEERING SCALES. REOUCEO SIZED PLANS WILL NOT CONFORM TO STANDARD SCALES. IN MAKING MEASUREMENTS ON REOUCED PLANS, THE ABOVE SCALES MAY BE USED. J.U.L.I.E. JOINT UTILITY LOCATION INFORMATION FOR EXCAVATION 1-800-892-0123 OR 811 MEAOE ELECTRIC CO. DISTRICT ONE ELECTRICAL MAINTENANCE CONTRACTOR LOCATES IDOT ELECTRICAL EQUIPMENT AND UNDERGROUND CABLES 1-773-287-7672 9450W, Bryn Mawr Ave., Suite 400 Rosemont, IL 60018 773-380-7900 NDR Inc. CONTRACT NO. 61E69

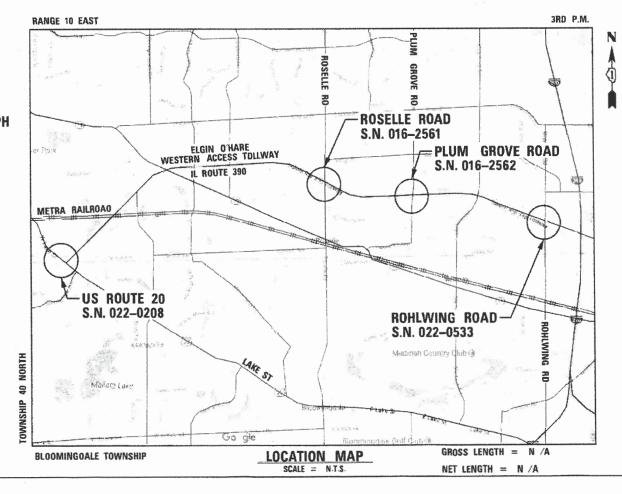
DESIGN FIRM REGISTRATION NUMBER 184.001070

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

# PLANS FOR PROPOSED FEDERAL AID HIGHWAY

FAP 345A IL ROUTE 390 (ELGIN O'HARE WESTERN ACCESS TOLLWAY) **AT VARIOUS LOCATIONS** LANDSCAPING AND SCENIC BEAUTIFICATION SECTION 14-00245-05-LS **PROJECT USYC(144)** 

## COOK AND DUPAGE COUNTIES JOB NO.: C-91-400-16



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F.A.P.     SECTION     COUNTY     IOTAL     SHEET       RTE.     345A     14-00245-05-LS     CODK/DLPAGE     37     1       JLLINOTS     CONTRACT     NO.     61E69
PROJECT LOCATED IN THE VILLAGES OF HANOVER PARK, ROSELLE, AND ITASCA STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION APPROVED June 210 20 19 Constroption forgation June 20 19 Constroption forgation DUPAGE COUNTY PASSED Line 27 20 19
PASSED LINO 27 20 19 S.M. Travala DISTRICT 1 ENGINEER OF LOCAL ROADS BASED ON LIMITED REVIEW 20 19 Autor 20 19 REVIEW REVIEW PROVINCE AUTHORITY
OF THE STATE OF ILLINOIS

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- INDEX OF SHEETS AND GENERAL NOTES 2.
- SUMMARY OF QUANTITIES 3.
- 4. EARTHWORK SCHEDULE
- PROPOSED TYPICAL SECTIONS LAKE STREET (US-20) 5.
- PROPOSED TYPICAL SECTIONS ROSELLE ROAD 6.
- PROPOSED TYPICAL SECTIONS ROHLWING ROAD 7.
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- LANDSCAPE PLAN ROSELLE ROAD 10.
- LANDSCAPE PLAN PLUM GROVE ROAD 11.
- 12. LANDSCAPE PLAN - ROHLWING ROAD
- GENERAL PLAN AND ELEVATION LAKE STREET (US-20) 13.
- GENERAL PLAN AND ELEVATION ROSELLE ROAD 14.
- GENERAL PLAN AND ELEVATION PLUM GROVE ROAD 15.
- 16-18. STEEL FENCE PANEL DETAIL
- 19. GATEWAY MONUMENT SIGN DETAIL
- GATEWAY MONUMENT SIGN STRUCTURAL DETAIL 20-21.
- 22-23. VERTICAL IDENTIFIER SIGN DETAIL
- 24. VERTICAL IDENTIFIER SIGN STRUCTURAL DETAIL
- PLANTING DETAILS AND SCHEDULE 25.
- 26. LIGHTING DETAIL
- 27. BRIDGE FENCE RAILING, PARAPET MOUNTED DETAIL
- 28-30. DISTRICT ONE DETAILS
- 31-37. TOLLWAY DETAILS

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- 280001-07 TEMPORARY EROSION CONTROL SYSTEMS 701101-05 OFF-RD OPERATIONS, MULTILANE, 15' TO 24" FROM PAVEMENT EDGE
- 701106-02 OFF-RD OPERATIONS, MULTILANE, MORE THAN 15' AWAY
- 701311-03 LANE CLOSURE 2L, 2W MOVING OPERATIONS-DAY ONLY
- 701427-05 LANE CLOSURE, MULTILANE, INTERMITTENT OR MOVING OPER., FOR SPEEDS < 40 MPH
- 701501-06 URBAN LANE CLOSURE, 2L, 2W, UNDIVIDED
- 701601-09 URBAN LANE CLOSURE, MULTILANE, 1W OR 2W WITH NONTRAVERSABLE MEDIAN 701701-10 URBAN LANE CLOSURE, MULTILANE INTERSECTION
- 701801-06 SIDEWALK, CORNER, OR CROSSWALK CLOSURE
- 701901-08 TRAFFIC CONTROL DEVICES

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- TC-14 TRAFFIC CONTROL AND PROTECTION AT TURN BAYS (TO REMAIN OPEN TO TRAFFIC)
- TC-22 ARTERIAL ROAD INFORMATION SIGN

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- E1-07 CONSTRUCTION SIGNS
- E2-08 LANE CLOSURE DETAILS
- E3-07 SHOULDER CLOSURE DETAILS
- E5-08 TEMPORARY GORE DETAILS

### **GENERAL CONSTRUCTION NOTES**

THE CONTRACTOR WILL NOT BE ALLOWED TO SET UP A FIELD OFFICE WITHIN CONTRACT LIMITS ON STATE, ILLINOIS TOLLWAY OR OTHER PUBLIC RIGHT OF WAY WITHOUT WRITTEN PERMISSION FROM THE ENGINEER.

THE CONTRACTOR'S SUPERINTENDENT OR DESIGNEE MUST BE ON THE CONSTRUCTION SITE DURING THE WORKING HOURS WHILE THIS PROJECT IS IN PROGRESS. THE CONTRACTOR'S SUPERINTENDENT MUST BE THE DESIGNATED RESPONSIBLE CONTRACTOR REPRESENTATIVE AND MUST BE AVAILABLE IN CASE OF EMERGENCIES ON A TWENTY-FOUR (24) HOUR BASIS.

THE CONTRACTOR MUST COORDINATE OFF-SITE HAUL AND ACCESS ROUTES WITH THE PARTY HAVING JURISDICTION OVER THE AFFECTED ROUTE. ON-SITE HAUL AND ACCESS ROUTES MUST BE MAINTAINED BY THE CONTRACTOR AND MUST BE RESTORED TO THEIR ORIGINAL CONDITION UPON COMPLETION OF BEING USED AS A HAUL ROUTE. FENCING, DRAINAGE, GRADING, RESURFACING, OR OTHER WORK NECESSARY TO CONSTRUCT AND MAINTAIN HAUL ROUTES IS THE CONTRACTOR'S RESPONSIBILITY AND MUST BE APPROVED BY THE ENGINEER PRIOR TO THE WORK. ANY RESTORATION SEEDING MUST INCLUDE THE USE OF SEED MIXES DEVELOPED FOR THE CORRIDOR AND APPROVED BY THE USDA.

STOCKPILES AND MATERIAL STORAGE ARE PROHIBITED IN SPECIAL MANAGEMENT AREAS INCLUDING WETLANDS, WETLAND BUFFERS, AND FLOOD PLAINS, LOCATIONS OF STOCKPILES MUST BE APPROVED BY THE ENGINEER AND HAVE PROPER EROSION CONTROL MEASURES.

ALL STORM SEWER FACILITIES WITH OPEN LIDS THAT ARE OR WILL BE FUNCTIONING DURING CONSTRUCTION SHALL BE PROTECTED OR FILTERED. ALL DRAINAGE STRUCTURES THAT HAVE OPEN LIDS IN PAVEMENT AREAS SHALL BE PROTECTED WITH INLET FILTERS (28000510).

THE CONTRACTOR MUST CLEAN UP, GRADE THE WORK AREAS AS THE PROJECT PROTECTION TO ELIMINATE THE CONCENTRATION OF RUNOFF, OR MUST INSTALL APPROPRIATE SEDIMENT CONTROL DEVICES TO TRAP SEDIMENT. PAVEMENT MUST BE CLEANED DAILY OR AS NECESSARY TO REMOVE TRACK-OUT MATERIAL.

CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIRING PAVEMENT OR PROPERTY DAMAGED DURING CONSTRUCTION OPERATIONS BY CONTRACTOR'S FORCES INCLUDING SUBCONTRACTORS

THE CONTRACTOR SHALL BE MADE AWARE THAT ALL CONSTRUCTION VEHICLES SHALL BE LIMITED TO A MAXIMUM OF 15 FEET ABOVE EXISTING GRADE WHILE CROSSING UNDER COMMONWEALTH EDISON'S TRANSMISSION LINES AND COMPLY WITH OSHA AND COMED CLEARANCE REQUIREMENTS.

FENCE: EXISTING FENCE THAT HAS TO BE DISCONNECTED AND/OR REMOVED FOR THE CONTRACTOR'S OPERATION SHALL BE RECONNECTED AND/OR REPLACED BY THE CONTRACTOR IN KIND AT NO ADDITIONAL COST TO THE ILLINOIS TOLLWAY. TEMPORARY FENCE SHOULD BE INSTALLED IF EXISTING FENCE IS TO BE REMOVED BY THE CONTRACTOR IN ACCORDANCE WITH SECTION 664 OF THE STANDARD SPECIFICATIONS. ANY RIGHT-OF-WAY MARKERS DISTURBED BY THE CONTRACTOR'S OPERATION SHOULD BE REESTABLISHED BY A REGISTERED LAND SURVEYOR.

ALL ELEVATIONS ARE BASED ON UNITED STATES COAST AND GEODETIC SURVEY DATUM.

AT THE TIME OF THE PRECONSTRUCTION CONFERENCE. THE CONTRACTOR SHALL SUBMIT FOR APPROVAL, THE PROPOSED CONCRETE TRUCK WASHOUT LOCATIONS, RUNOFF FROM WASH AREAS SHALL BE CONTAINED IN DESIGNATED AREAS SO THAT RUNOFF DOES NOT REACH THE STORM SEWER OR DITCH SYSTEMS.

IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY THE LOCATION OF ALL FIBER OPTIC UTILITIES PRIOR TO STARTING CONSTRUCTION. THE CONTRACTOR SHALL INITIATE THE LOCATE PROCESS FOR THE FIBER OPTIC CABLE BY COMPLETING A "REQUEST TOLLWAY UTILITIES LOCATE" FORM FILLED ON-LINE ON THE ILLINOIS TOLLWAY WEBSITE UNDER "DOING BUSINESS / CONSTRUCTION AND ENGINEERING / PERMITS AND UTILITY INFORMATION" AT LEAST FOUR (4) DAYS PRIOR TO STARTING ANY UNDERGROUND OPERATIONS, EXCAVATIONS OR DIGGING OF ANY TYPE IN GENERAL AREA OF THE FIBER OPTIC CABLE.

EXISTING TOPSOIL DEPTH IS ESTIMATED TO BE SIX (6) INCHES. THE PROPOSED TOPSOIL SHALL BE PLACED TO A DEPTH OF SIX (6) INCHES. THE ACTUAL DEPTH OF TOPSOIL SHALL BE DETERMINED IN THE FIELD AT THE TIME OF CONSTRUCTION BY THE ENGINEER.

### TREE AND BRANCHES

THE CONTRACTOR SHALL NOT REMOVE ANY TREES OR BRANCHES ON TOLLWAY RIGHT-OF-WAY WITHOUT PRIOR APPROVAL BY THE ILLINOIS TOLLWAY LANDSCAPE ARCHITECT. CONTRACTOR SHALL NOT DAMAGE ANY TREES OUTSIDE OF THE WORK LIMITS. IF ANY EXISTING TREES ARE DAMAGED DUE TO CONSTRUCTION ACTIVITIES, CONTRACTOR

SHALL REPLACE THE TREE IN KIND.

### **USE OF WATER**

THE INDISCRIMINATE USE OF FIRE HYDRANTS, EXISTING STREAMS, CREEKS, WETLANDS, OR PONDS IS STRICTLY PROHIBITED. THE CONSTRUCTION SHALL PROVIDE A WATER TRUCK AND DRIVER AS REQUIRED TO OBTAIN AND TRANSPORT THIS WATER. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING WATER FROM AN APPROVED SOURCE. IF THIS WATER IS FROM A SOURCE OTHER THAN HIS/HER YARD. WRITTEN APPROVAL FROM THE AGENCY HAVING JURISDICTION FOR THE SOURCE OF THE WATER MUST BE RECEIVED BY THE CONTRACTOR PRIOR TO USE OF THE WATER.

### SPECIAL PROJECT NOTES

THE CONTRACTOR SHALL BE ALERT TO POST ALL NECESSARY SIGNAGE, HAVE FLAGGERS AT LOCATIONS OF RESTRICTED LANE OPERATIONS, AND TAKE DOWN THE SIGNAGE WHEN THE WORK IS COMPLETED IN ACCORDANCE WITH THE TRAFFIC CONTROL PROVISIONS OF SECTION 700, 701 AND 702.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONTACTING THE OWNERS OF ALL UTILITIES PRIOR TO CONSTRUCTION TO DETERMINE THE LOCATION OF ALL UTILITY EQUIPMENT. THE CONTRACTOR SHALL COOPERATE WITH ALL UTILITY OWNERS IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS IF UTILITY RELOCATION, ADJUSTMENT, OR PROTECTION IF NECESSARY.

ALL UTILITY OWNERS SHALL BE NOTIFIED AT LEAST 3 DAYS PRIOR TO THE START OF CONSTRUCTION.

THE CONTRACTOR SHALL USE ALL NECESSARY PRECAUTIONS AND PROTECTION MEASURES REQUIRED TO MAINTAIN EXISTING UTILITIES, SEWERS, AND APPURTENANCES THAT MUST BE KEPT IN OPERATION.

THE CONTRACTOR SHALL CONTACT THE DISTRICT ONE TRAFFIC CONTROL SUPERVISOR FOR ARTERIALS AT Kalpana.Kannan-Hosadurga@illinois.gov AT LEAST 72 HOURS IN ADVANCE OF BEGINNING WORK.

### **ROADWAY JURISDICTIONS:**

ELGIN O'HARE WESTERN ACCESS TOLLWAY (IL-390): ILLINOIS STATE TOLL HIGHWAY AUTHORITY US-20/LAKE STREET: IDOT ROSELLE ROAD: COOK COUNTY PLUM GROVE ROAD: COOK COUNTY ROHLWING ROAD: IDOT

DUPAGE COUNTY DIVISION OF TRANSPORTATION	DESIGNED - AS	REVISED -		INDEX OF SHEETS	F.A.P. RTE.	SECTION	COUNTY TOTAL SHEET SHEETS NO.
421 COUNTY FARM ROAD WHEATON, IL	DRAWN - RR	REVISED -	STATE OF ILLINOIS	AND GENERAL NOTES	345A	14-00245-05-LS	COOK/DUPAGE 37 2
		REVISED -	DEPARTMENT OF TRANSPORTATION				CONTRACT NO. 61E69
	DATE – 6/10/2019	REVISED -		SCALE: NTS		ILLINOIS FED.	AID PROJECT

SPECIAL TY ITEM	SPECIAL PROVISIONS	CODE NUMBER	İTEM	UNIT	TOTA QUANT I
		20101100	TREE TRUNK PROTECTION	EACH	1
		20200100	EARTH EXCAVATION	CU YD	23
		21101505	TOPSOIL EXCAVATION AND PLACEMENT	CU YD	3
		28000305	TEMPORARY DITCH CHECKS	FOOT	10
		28000400	PERIMETER EROSION BARRIER	FOOT	485
		28000510	INLET FILTERS	EACH	6
		50200100	STRUCTURE EXCAVATION	CU YD	81
		50300225	CONCRETE STRUCTURES	CU YD	30
		50800205	REINFORCEMENT BARS, EPDXY CDATED	POUND	7 20
		30000203		FUUND	7,28
+		50901730	BRIDGE FENCE RAILING	FOOT	300
		51603000	DRILLED SHAFT IN SOIL	CU YD	17
		58700300	CONCRETE SEALER	SQ FT	707
		54100505		50 FT	707
		67100100	MOBILIZATION	L SUM	1
	*	70102620	TRAFFIC CONTROL AND PROTECTION, STANDARD 701501	L SUM	1
	* :	70102630	TRAFFIC CONTROL AND PROTECTION, STANDARD 701601	L SUM	1
				C	
	*	70102635	TRAFFIC CONTROL AND PROTECTION, STANDARD 701701	L SUM	1
		70102640	TRAFFIC CONTROL AND PROTECTION. STANDARD 701801	LSUM	1
		70300904	PAVEMENT MARKING TAPE, TYPE IV 4"	FODT	5,000
+			TREE, GINKGO BILOBA PRINCETON SENTRY (PRINCETON SENTRY GINKGO), 2-1/2" CALIPER, BALLED AND BURLAPPED	EACH	10
			TREE, OUERCUS BICOLOR (SWAMP WHITE DAK), 2-1/2" CALIPER, BALLED AND		
+		A2006520	BURLAPPED	EACH	7
+		A2006618	TREE. QUERCUS IMBRICARIA (SHINGLE OAK), 2-1/2" CALIPER, BALLED AND BURLAPPED	EACH	19
+		A2008470	TREE, ULMUS AMERICANA PRINCETON (PRINCETON AMERICAN ELM), 2-1/2" CALIPER, BALLED AND BURLAPPED	EACH	10
+		C2C00524	SHRUB, ARONIA MELANOCARPA (BLACK CHOKE BERRY), 2' HEIGHT, CONTAINER	EACH	108
+		C2C01120	SHRUB, CEPHALANTHUS OCCIDENTALIS (BUTTON BUSH), 2' HEIGHT, CONTAINER	EÁCH	
		52501120	STRUCT CERTIFICATION OCCIDENTALIS CONTON BUSHIT Z METONIA CUNTAINER	EACH	22

-

-		-9-018	(Andorra Grapping Juriper), 24" width, Granner	•	
+		Dacare	Everance Trime & this multiple And	EACH	67
	*	Z0076604	TRAINEES TRAINING PROGRAM GRADUATE	HOUR	500
	*	Z0076600	TRAINEES	HOUR	500
		1 			
+	*	20064800	SELECTIVE CLEARING	UNIT	10
	*	Z0030850	TEMPORARY INFORMATION SIGNING	SQ FT	130
	*	20022800	FENCE REMOVAL	FOOT	300
		70033555		C	200
	*	20013798	CONSTRUCTION LAYOUT	LSUM	1
+	*	XX007465	STEEL FENCE PANELS	FOGT	1,204
<u> </u>					
+	*	XX007181	VERTICAL IDENTIFIER	EACH	4
	*	X7030005	TEMPORARY PAVEMENT MARKING REMOVAL	SQ FT	1,700
+	*	X1400225	SOLAR LED LIGHTING UNIT COMPLETE	EACH	7
+	*	X0322955	WEED CONTROL SELECTIVE (WOODY PLANTS & BRDADLEAF)	GALLON	0.2
+	*	X0320060	GATEWAY MONUMENT SIGN COMPLETE	EACH	1
	[				
	*	X0320015	MAINTENANCE OF TRAFFIC (ILLINDIS TOLLWAY)	LSUM	1
+	*	K0029634	WEED CONTROL, PRE-EMERGENT GRANULAR HERBICIDE	POUND	75
					U• £
+	*	K0029632	WEED CONTROL, NON-SELECTIVE AND NON-RESIDUAL	GALLON	0.2
+		K0012992	PERENNIAL PLANTS, ORNAMENTAL TYPE, 2-GALLON POT	UN [ T	7
•		02001308	BURLAPPED	CALH	10
+		D2001988	EVERGREEN, PICEA GLAUCA DENSATA (BLACK HILLS SPRUCE), 8' HEIGHT, BALLED AND	EACH	10
+		D2C03524	EVERGREEN, TAXUS X MEDIA DENSIFORMIS (DENSE ANGLOJAPANESE YEW), 2' WIDTH, CONTAINER	EACH	74
+		C2C058G2	2-GALLON	EACH	18
			SHRUB, RHUS AROMATICA GRO-LOW (GRO-LOW FRAGRANT SUMAC), CONTAINER GROWN,		
+		C2C048G5	SHRUB, PHYSOCARPUS DPULIFOLIUS (COMMON NINEBARK), CONTAINER GROWN, 5-GALLON	EACH	40
+	-	C2C03724	SHRUB, HYPERICUM KALMIANUM (KALM ST. JOHNSWORT), 2' HEIGHT, CONTAINER	EACH	264
			CONTAINER GROWN		
ECIALTY 1TEM +	SPECIAL PROVISIONS	CODE NUMBER C2C03620	ITEM SHRUB, HYDRANGEA PANICULATA LITTLE LIME (LITTLE LIME HYDRANGEA), 2' HEIGHT,	UNIT EACH	0UANTITY 90

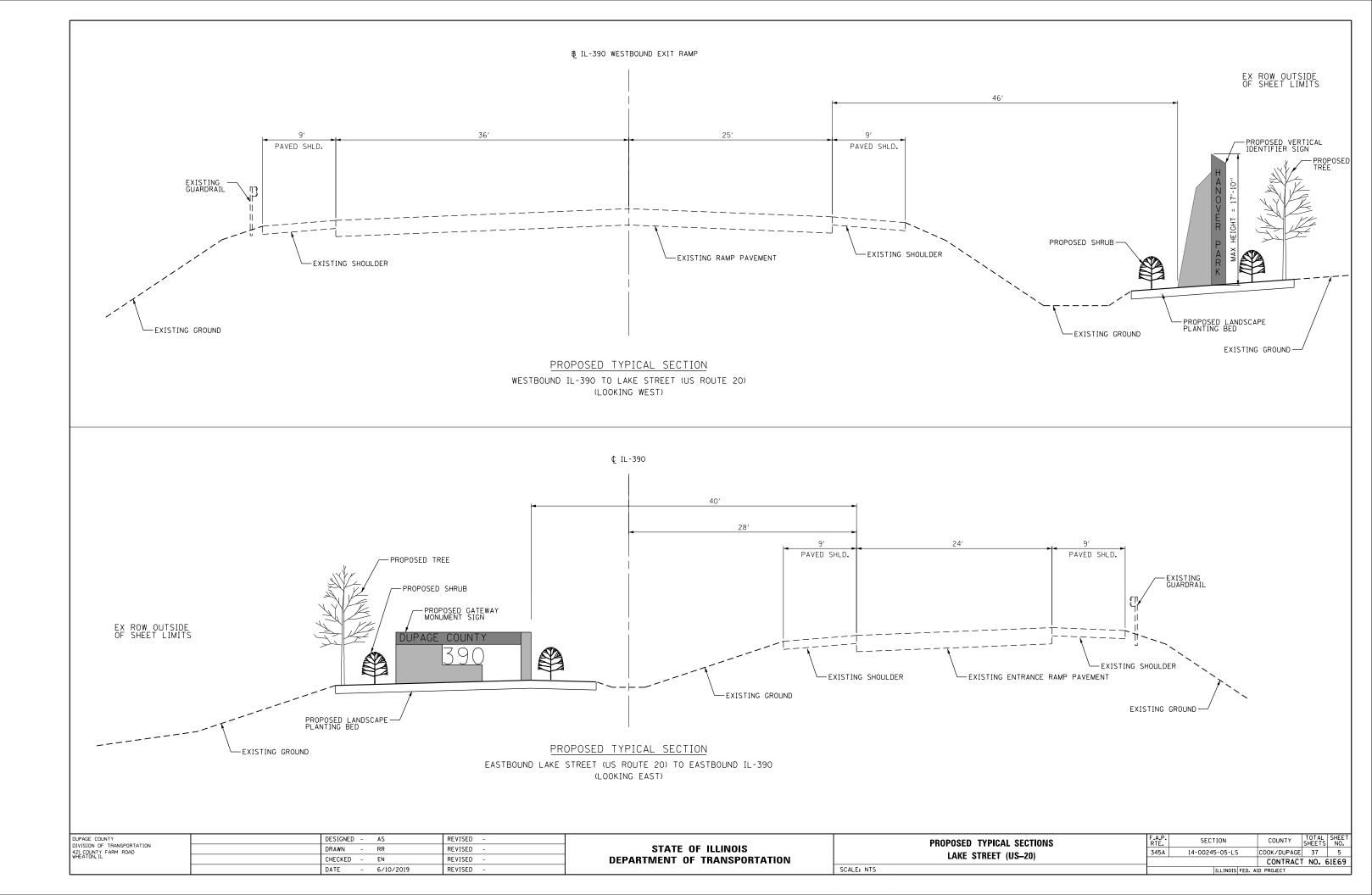
DUPAGE COUNTY DIVISION OF TRANSPORTATION	 DESIGNED -	AS	REVISED -		
421 COUNTY FARM ROAD WHEATON, IL	 DRAWN -	RR	REVISED -	STATE OF ILLINOIS	SUMMARY OF QUAI
WHEATON, IL	 CHECKED -	EN	REVISED -	DEPARTMENT OF TRANSPORTATION	
	 DATE -	6/10/2019	REVISED -		SCALE: NTS

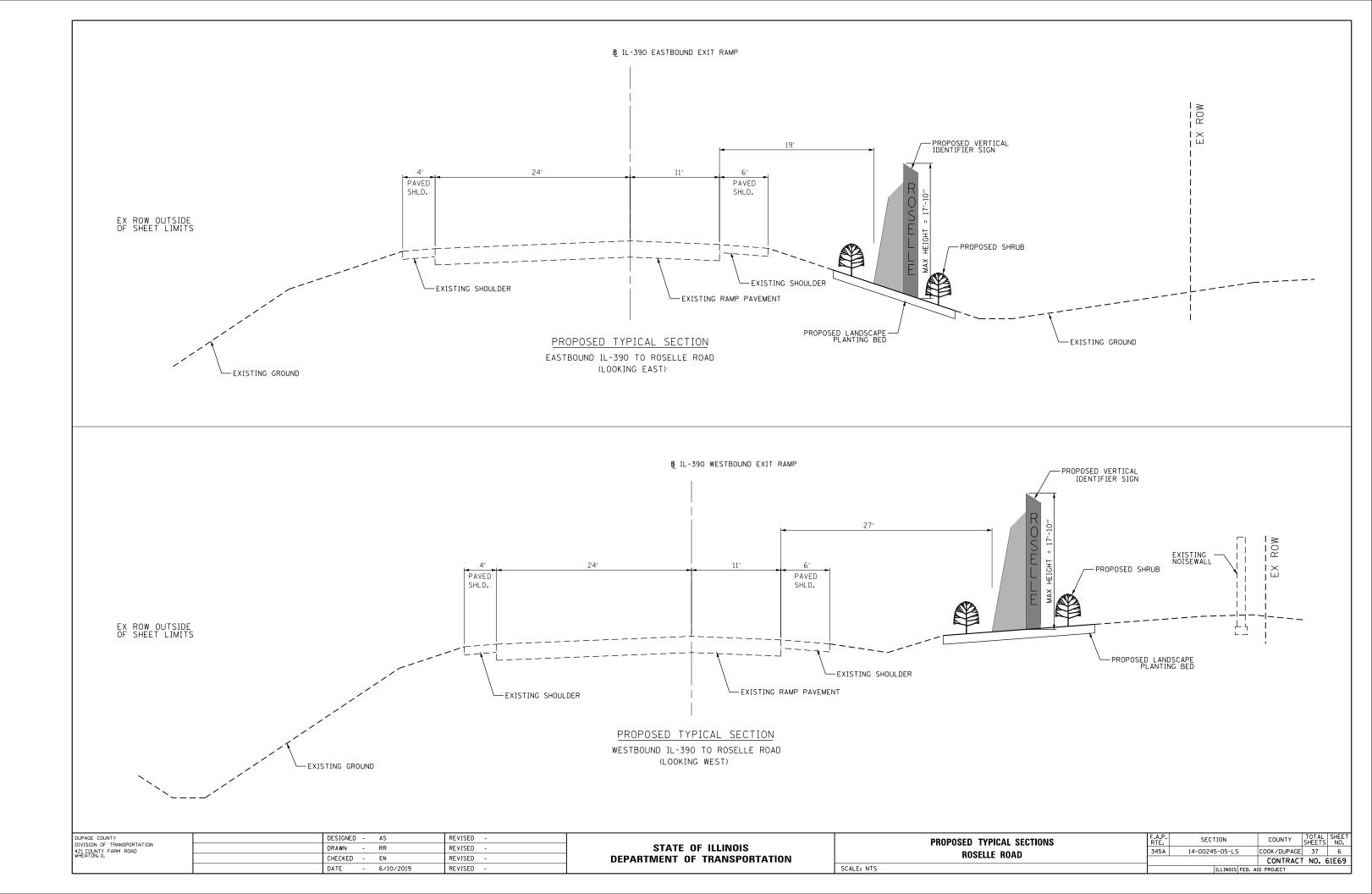
B 147 147 147 04	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
NTITIES	345A	14-00245-05-LS	COOK/DUPAGE	37	3
			CONTRACT	NO. 6	51E69
		ILLINOIS FED. A	D PROJECT		

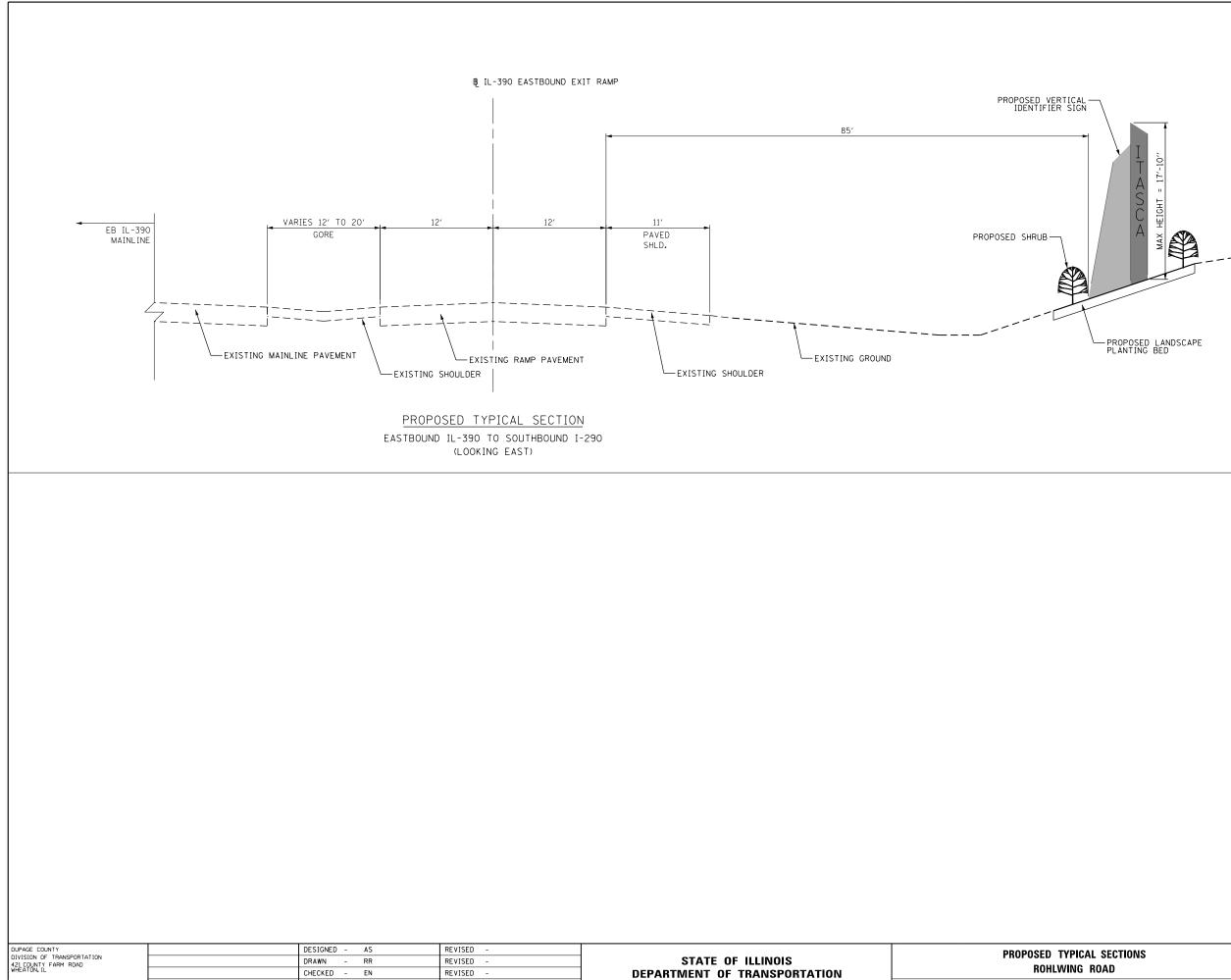
EARTHWORK SCHEDULE										
LOCATION	EARTH EXCAVATION (20200100) (CU YD)	TOPSOIL EXCAVATION AND PLACEMENT (21101505) (CU YD)								
WB IL-390 EXIT RAMP AT LAKE STREET (US ROUTE 20)	2.4	0.3								
EB IL-390 ENTRANCE RAMP AT LAKE STREET (US ROUTE 20)	13.3	1.4								
EB IL-390 EXIT RAMP AT ROSELLE ROAD	2.4	0.3								
WB IL-390 EXIT RAMP AT ROSELLE ROAD	2.4	0.3								
WB IL-390 AT ROHLWING ROAD	2.4	0.3								
TOTAL	23	3								

NOTE: EXCAVATED MATERIAL SHALL NOT BE HAULED OFF SITE. EXCAVATED MATERIAL SHALL REMAIN ON SITE AND BE PLACED BEHIND THE PROPOSED SIGNS OR AT A LOCATION APPROVED BY THE ENGINEER.

DUPAGE COUNTY	DESIGNED - AS	REVISED -			F.A.P.	SECTION	COUNTY TOTAL SHEET
DIVISION OF TRANSPORTATION 421 COUNTY FARM ROAD	DRAWN - RR	REVISED -	STATE OF ILLINOIS	EARTHWORK SCHEDULE	345A 14-0	0245-05-LS	COOK/DUPAGE 37 4
WHEATON, IL	CHECKED – EN	REVISED -	DEPARTMENT OF TRANSPORTATION				CONTRACT NO. 61E69
	DATE - 6/10/2019	REVISED -		SCALE: NTS		ILLINOIS FED.	AID PROJECT







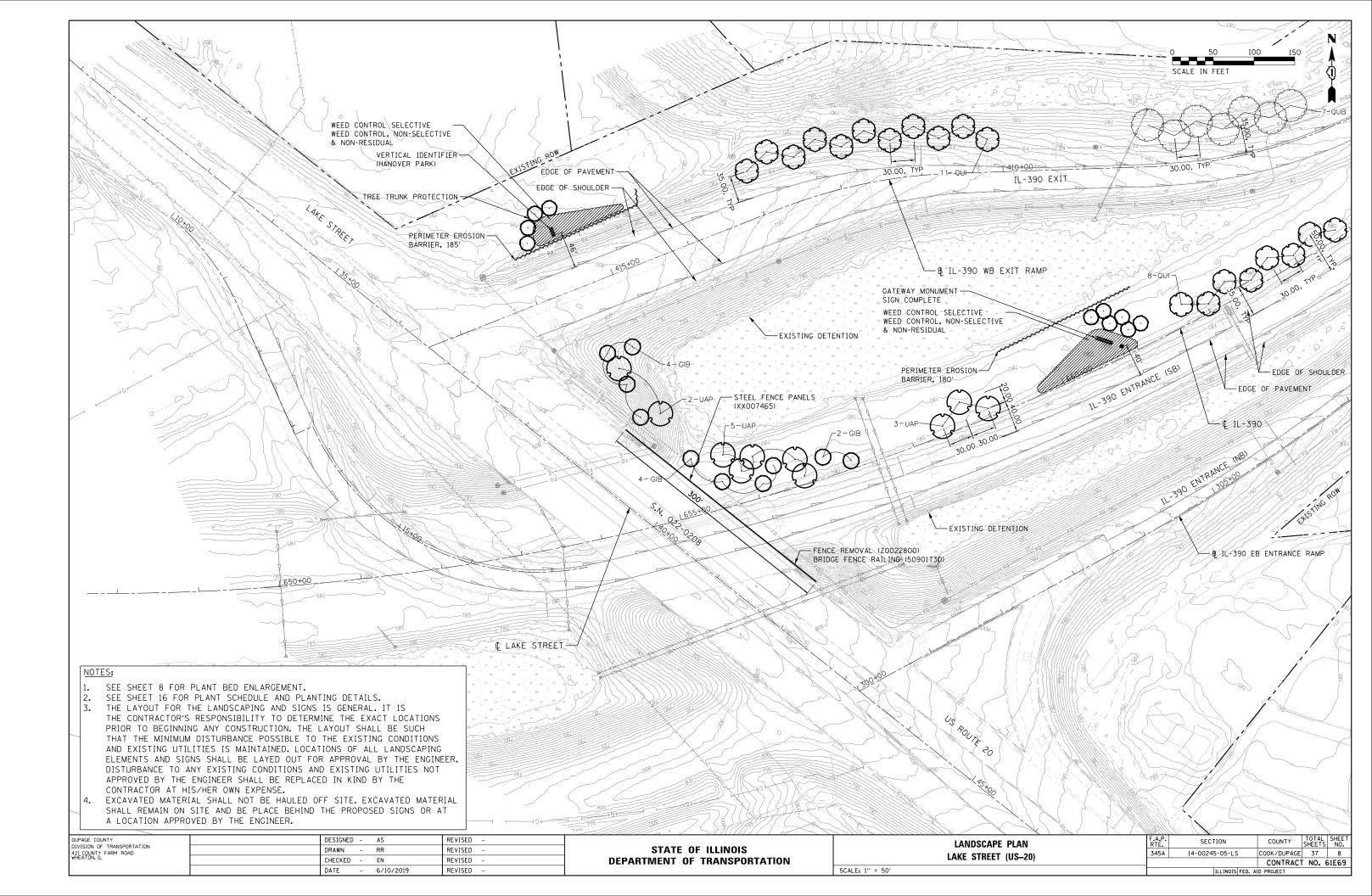
DATE - 6/10/2019

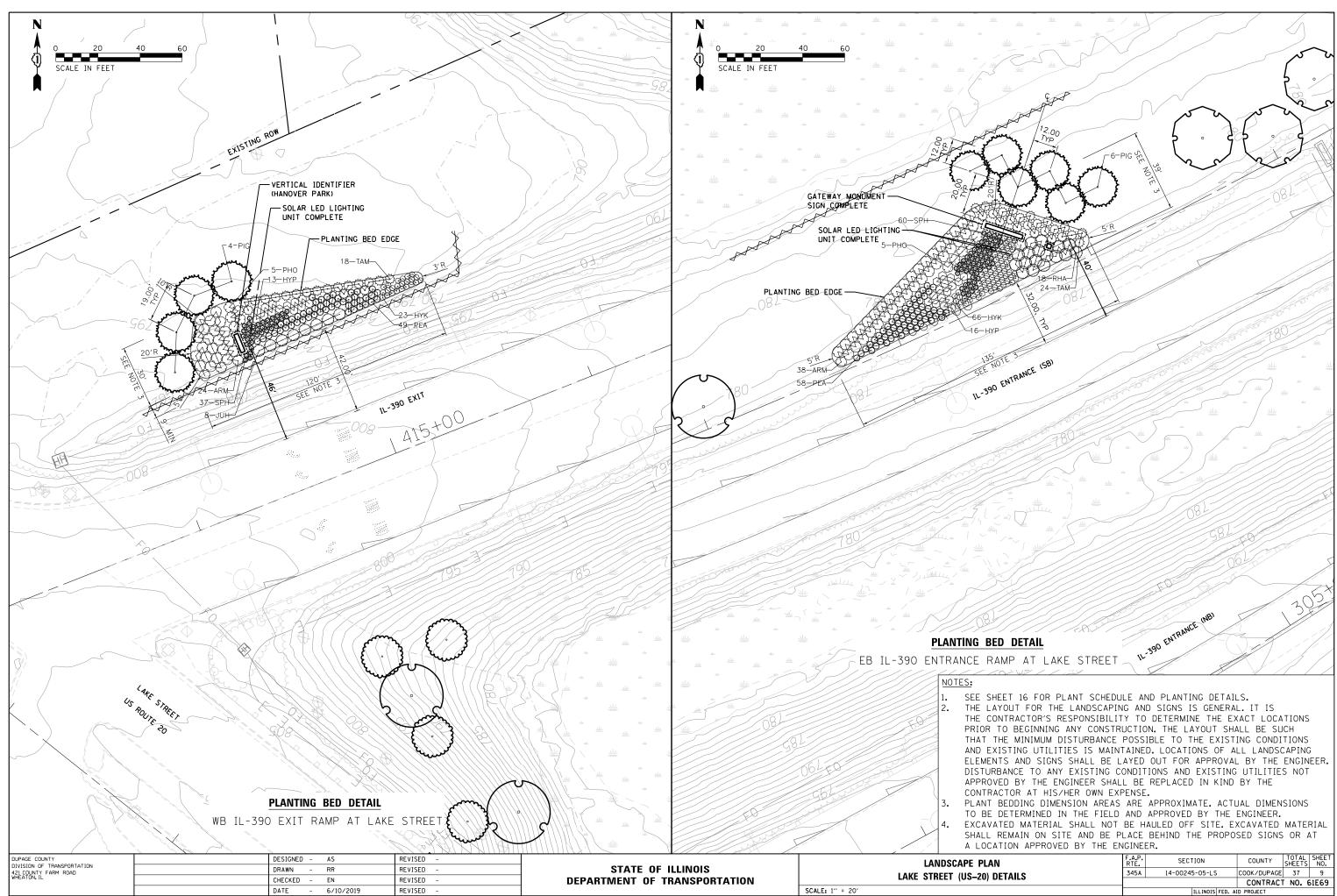
REVISED

EX ROW OUTSIDE OF SHEET LIMITS

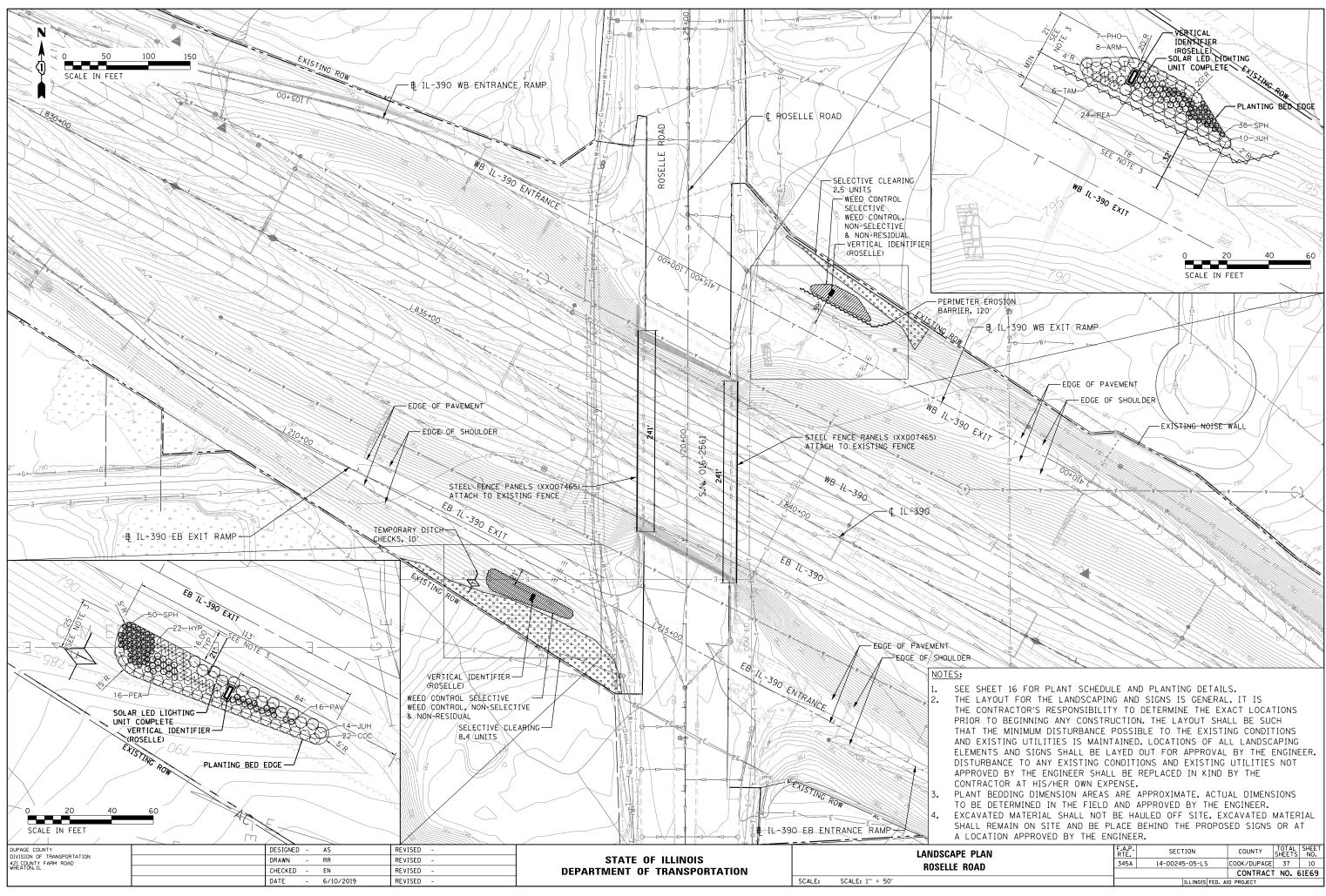
AL SECTIONS		SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
ROAD	345A	14-00245-05-LS	COOK/DUPAGE	37	7
			CONTRAC	T NO. 0	51E69
		ILLINOIS FED.	AID PROJECT		

SCALE: NTS

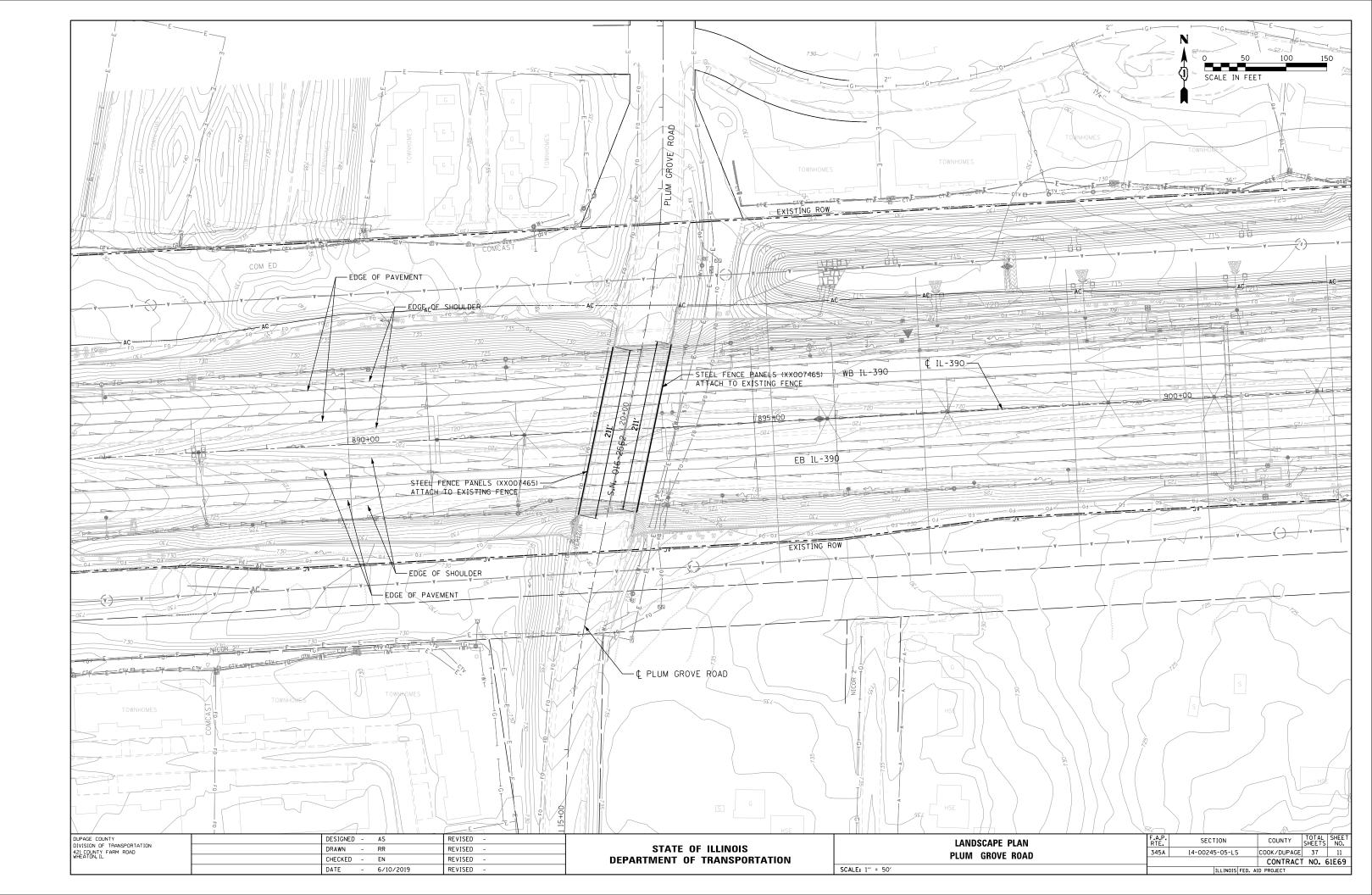


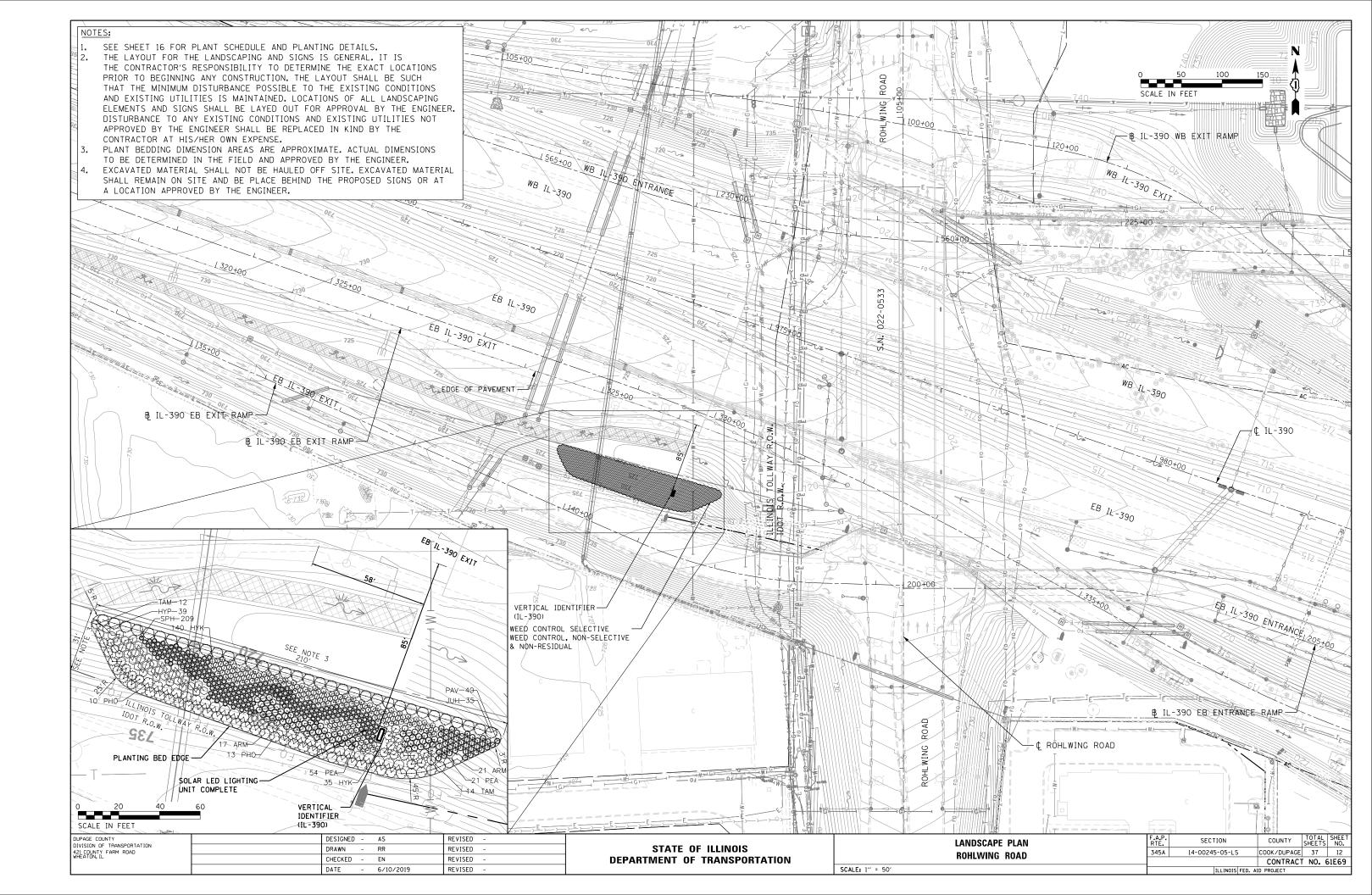


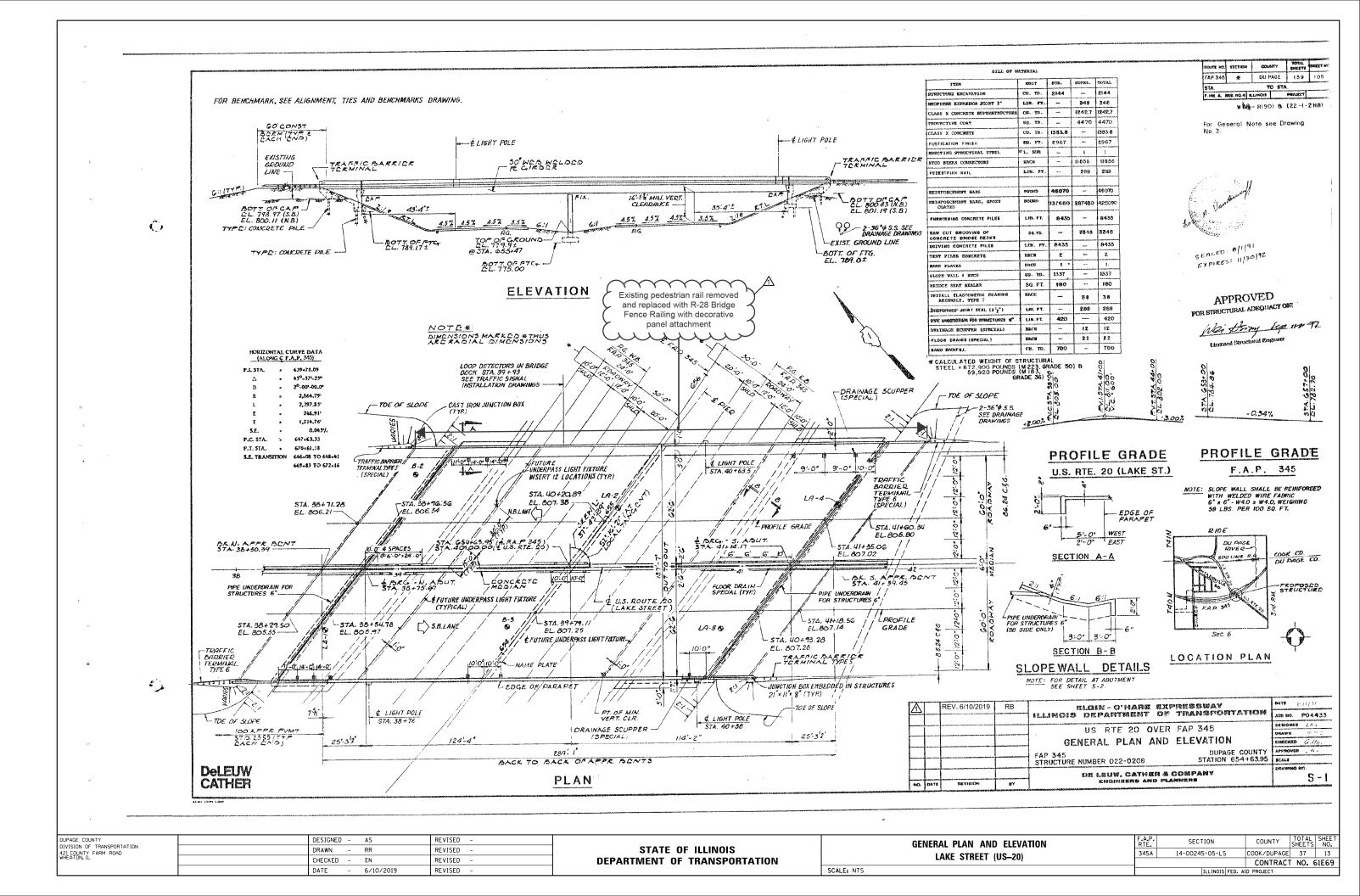
PLAN	F.A.P. RTE	SECTION		COUNTY	TOTAL SHEETS	SHEET NO.
–20) DETAILS	345A	14-00245-05-LS	5	COOK/DUPAGE	37	9
				CONTRACT	NO. 1	61E69
	ILLINOIS FED. AID PROJECT					

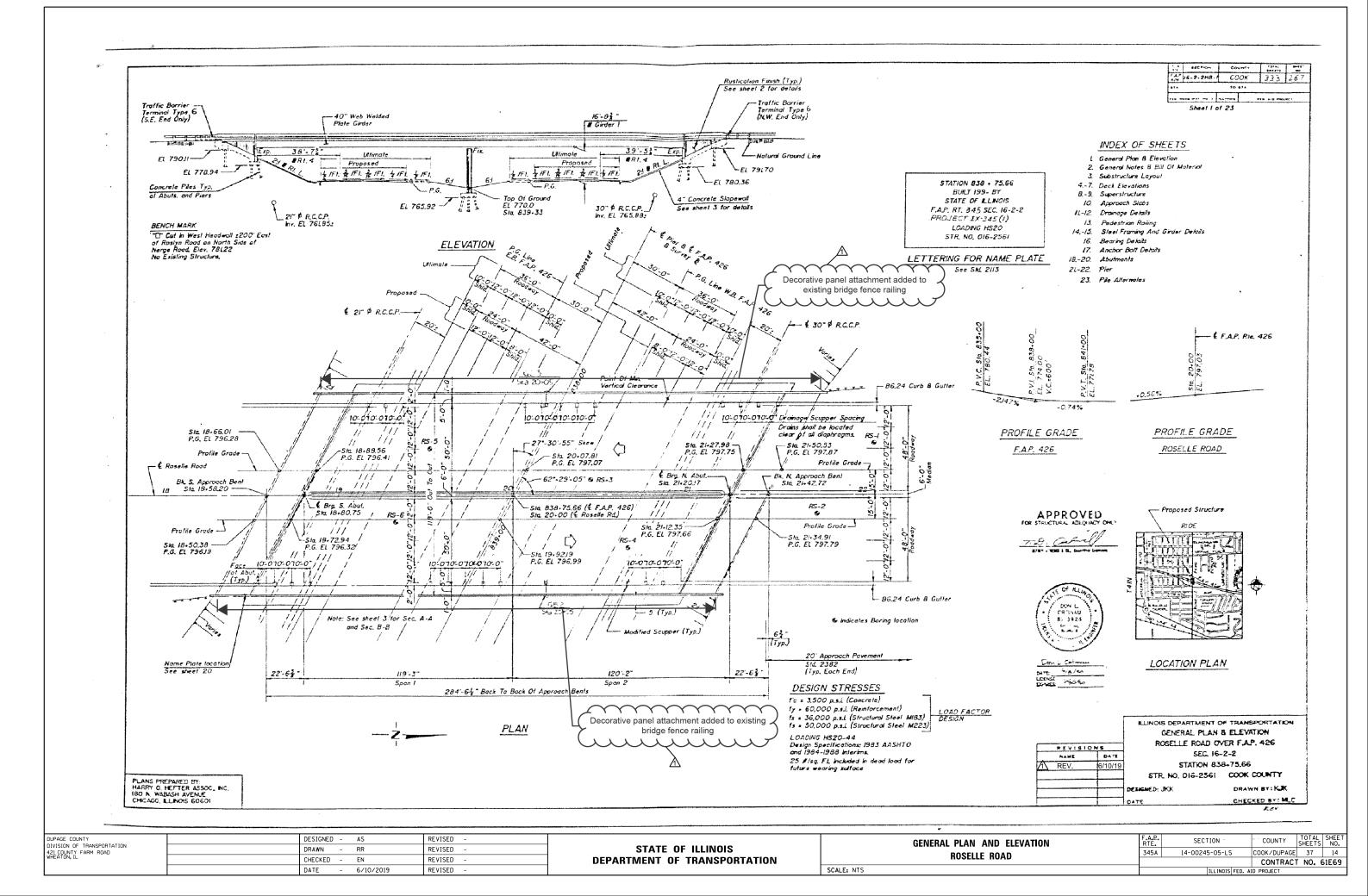


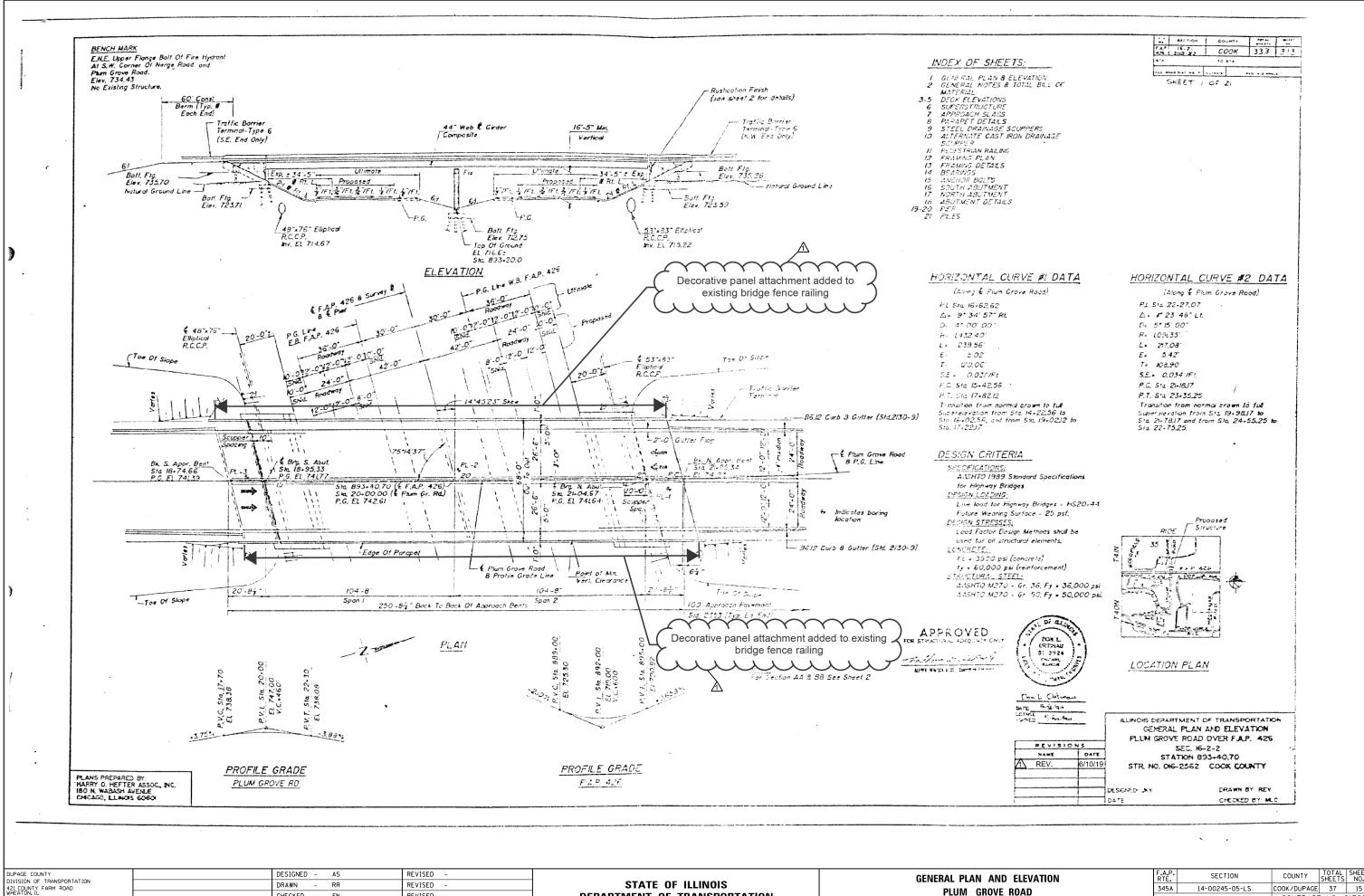
ECONTION IN THE ED BI THE EN	o in iele					
PLAN	F.A.P. RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
ROAD	345A	14-00245-05-LS	COOK/DUPAGE	37	10	
			CONTRACT	NO. 0	51E69	
	ILLINOIS FED. AID PROJECT					











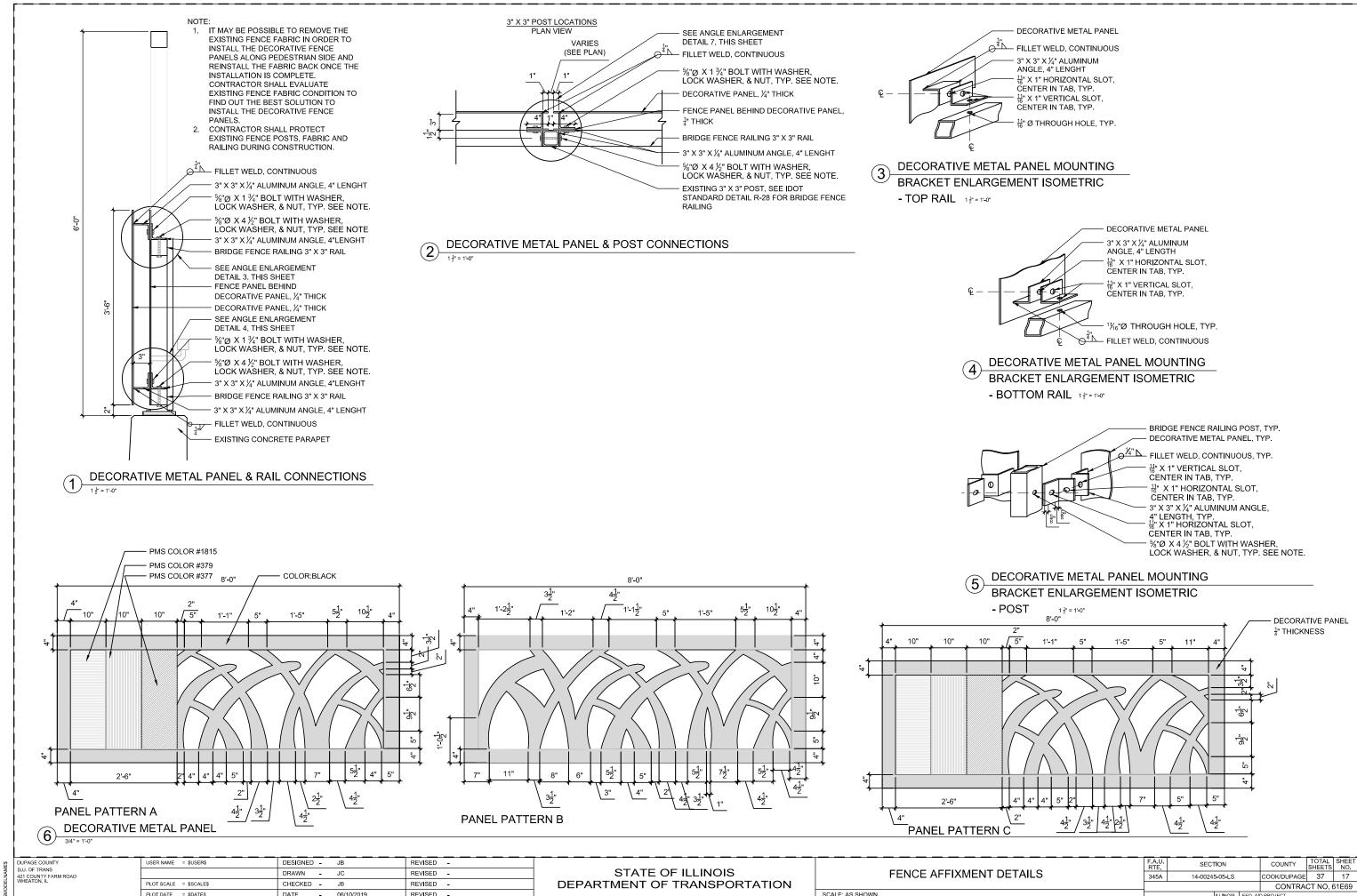
STATE OF ILLINOIS CHECKED -EN REVISED **DEPARTMENT OF TRANSPORTATION** DATE REVISED - 6/10/2019

PLUM GROVE

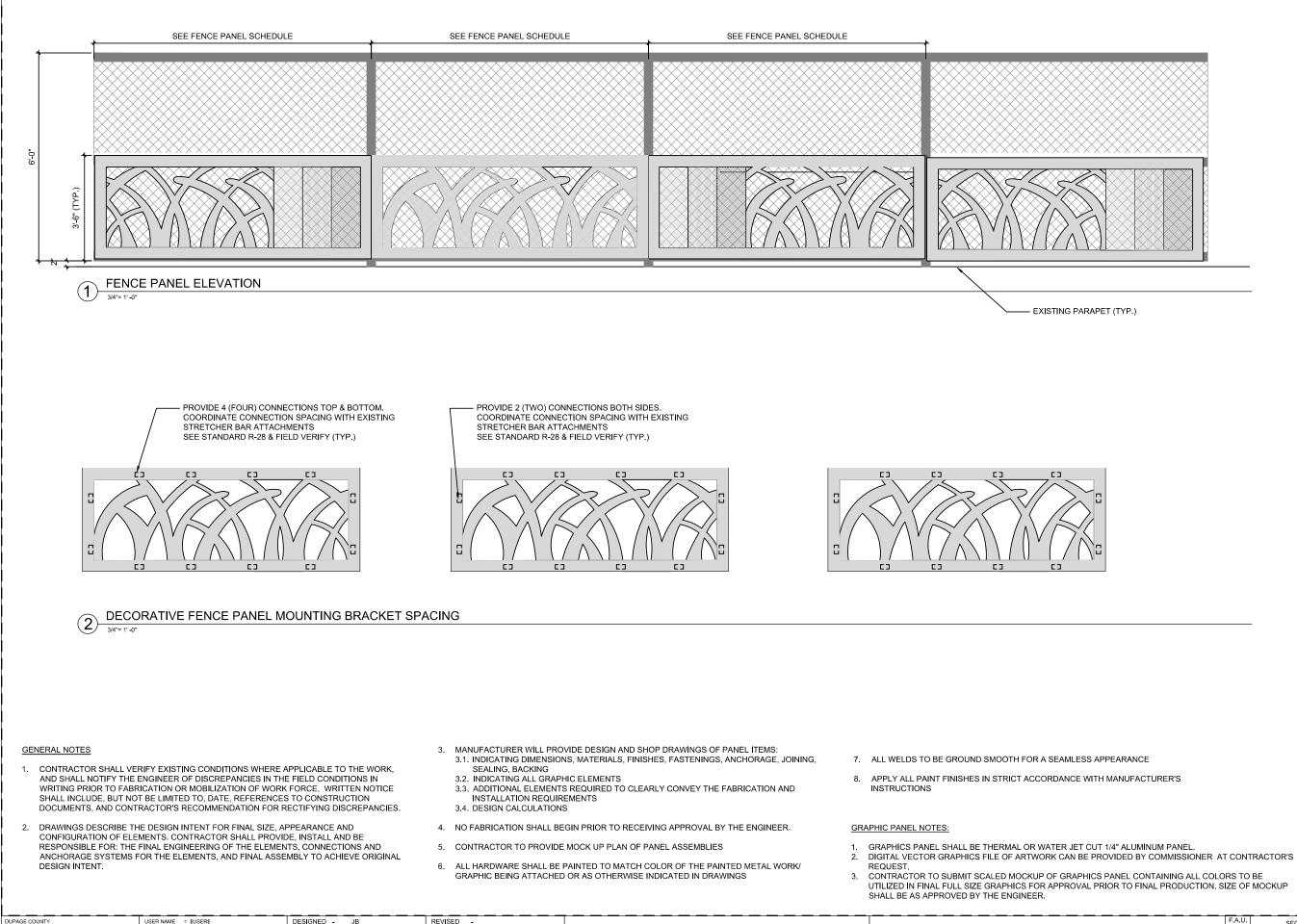
SCALE: NTS

D ELEVATION	F.A.P. RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
ROAD	345A	14-00245-05-LS	COOK/DUPAGE	37	15
	CONTRACT NO. 618				
		ILLINOIS FED. A	D PROJECT		

A1 A2 A3 A4 A5 A6 A7 A8 A9 A10 A11 A12 A13 A14 A15 A16 A17 A18 A19 A20 A21 A	A22 A23 A24 A25 A26 A27 A28 A29 A30 A31 A32 A33 A34
B1       B2       B3       B4       B5       B6       B7       B8       B9       B10       B11       B12       B13       B14       B15       B16       B17       B18       B19       B20         2000<	0 B21 B22 B23 B24 B25 B26 B27 B28 B29 B30 B31 B32 B33 7 MARKAN MARKAN MARKAN MARKAN MARKAN MARKAN MARKANA
	D23         D24         D25         D26         D27         D28         D29         D30         D31           MMM
	Panel 2         A         8'-7 5/8"         Panel 3         B         7-91/2"         Panel 3         C         8'-7 1/8"         Panel 3         D         4'-61/4"
NOTES 1. ELEVATIONS AND DIMENSIONS SHOWN ARE TAKEN FROM EXISTING FENCE SHOP DRAWINGS, THE CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS, COORDINATES, AND EXISTING CONDITIONS PRIOR TO	GAPA1-0°GAPB1+1°GAPGAPC1+19/16°Panel 4A8'-71/8°Panel 4B8.8°Panel 4C2+4 1/14°Panel 4D2+6 3/4°Panel 5A8'-8°Panel 5B8'-71/2°Panel 6C8'-75/8°Panel 4D2+6 3/4°Panel 5A8'-76/8°Panel 6B8'-71/2°Panel 6C8'-73/8°Panel 7D8'-71/2°Panel 9A8'-75/16°Panel 9B8'-71/2°Panel 9C8'-73/8°Panel 7D8'-71/2°Panel 9A8'-75/16°Panel 9B8'-71/2°Panel 10C8'-71/4°Panel 3D8'-71/2°Panel 10A8'-71/4°Panel 10B8'-71/4°Panel 11C8'-71/4°Panel 10D8'-71/2°Panel 12A8'-71/2°Panel 13B8'-71/4°Panel 13C8'-71/4°Panel 10D8'-71/2°Panel 13A8'-76/8°Panel 13B8'-71/4°Panel 13C8'-71/4°Panel 12D8'-71/2°Panel 13A8'-76/8°Panel 13B8'-71/4°Panel 13C8'-71/4°Panel 13D8'-71/4°Panel 13A8'-76/8°Panel 13B8'-71/4°Panel 13C8'-71/4°Panel 13D8'-71/4°Panel 14A8'-76/8°Panel 15B8

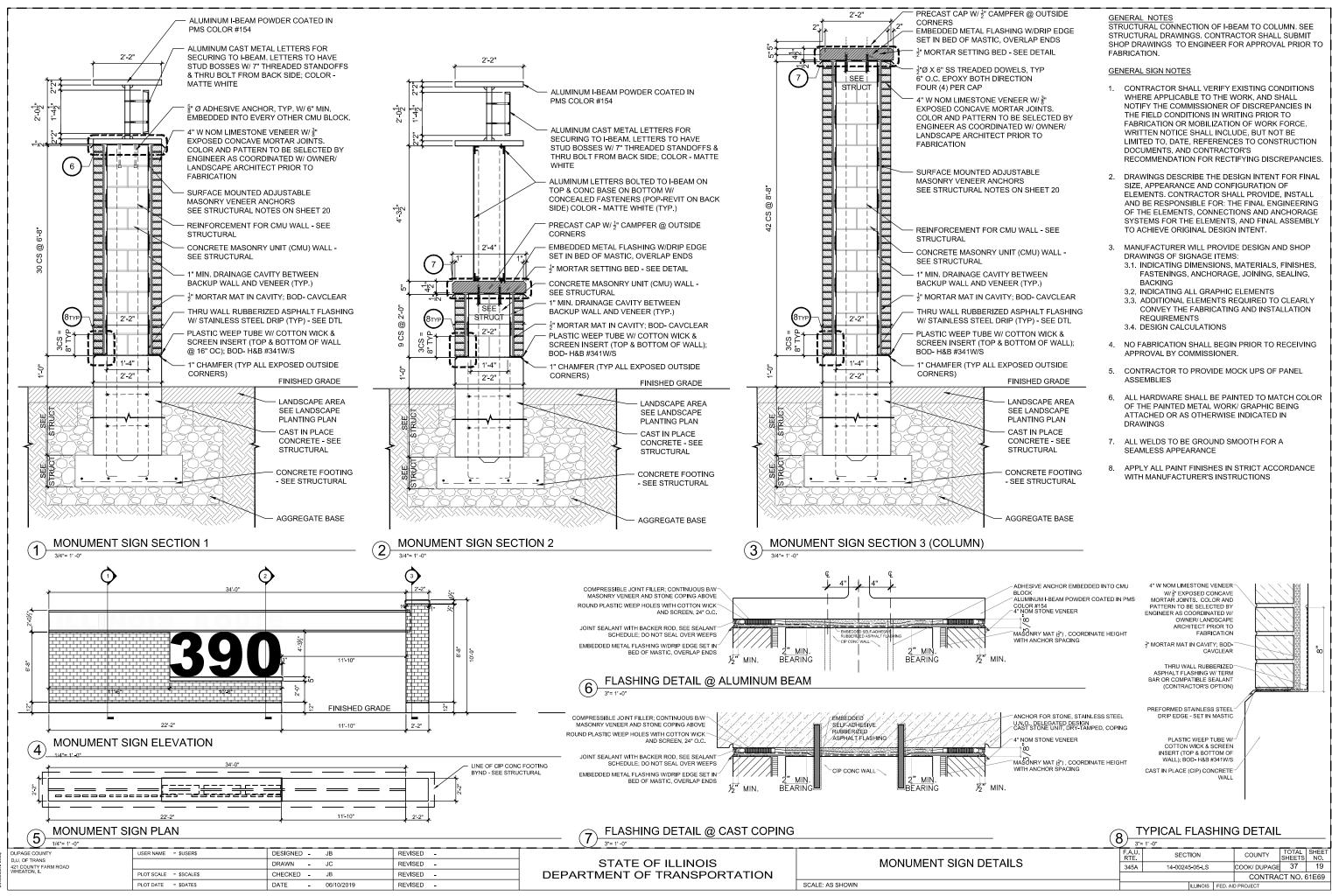


	F.A.U. RTE	SECT	TION		COUNTY	TOTAL SHEETS	SHEET NO.
DETAILS	345A	14-0024	5-05-LS		COOK/DUPAGE	37	17
					CONTRA	CT NO. 6	51E69
			ILLINOIS	FED, All	D PROJECT		



\$	DUPAGE COUNTY	USER NAME = \$USER\$	DESIGNED -	JB	REVISED -		
NAM	D.U. OF TRANS 421 COUNTY FARM ROAD WHEATON, IL		DRAWN -	JC	REVISED -	STATE OF ILLINOIS	FENCE AFFIXMENT
DEL S	WHEATON, IL	PLOT SCALE = \$SCALE\$	CHECKED -	JB	REVISED -	DEPARTMENT OF TRANSPORTATION	
SMC SFIL		PLOT DATE = \$DATE\$	DATE -	06/10/2019	REVISED -		SCALE: AS SHOWN

	F.A.U. RTE	SECTION		COUNTY	TOTAL SHEETS	SHEET NO.
DETAILS	345A	14-00245-05-LS		COOK/DUPAGE	37	18
				CONTRA	CT NO. 6	61E69
		ILLINOIS	FED, All	O PROJECT		



H	LANDSCAPE AREA SEE LANDSCAPE PLANTING PLAN
	CAST IN PLACE CONCRETE - SEE STRUCTURAL
	CONCRETE FOOTING - SEE STRUCTURAL
Q.	AGGREGATE BASE

### GENERAL NOTES

Reinforcement bars shall conform to the requirements ASTM A 706 GR 60. Reinforcement bars designated (E) shall be epoxy coated.

A normal surface finish followed by Concrete Sealer application will be required on concrete surfaces above the lowest elevation 6" below finished ground line. Anchor studs shall be installed in accordance with article 509.06 of the

Standard Specifications and shall be included in the cost of Concrete Structures. Steel shapes shall be AASHTO M270 Grade 36 in accordance with article 1006.04

of the Standard Specifications. Steel shapes, bolts, nuts and washers shall be hot-dipped galvanized in accordance

with AASHTO M232 or M111.

Concrete masonry units shall be 8" wide,  $l_4^{\prime}$ " face shell thickness, ground face block. Limestone veneer to be directly anchored to concrete masonry units. Anchoring with wire ties to the mortar bed will not be permitted. Veneer anchors shall be hot-dipped galvanized. Provide at least one anchor for each 2.67 Sq. Ft. of wall area. Spacing of veneer anchors shall not exceed 32" horizontally and 25" vertically. Contractor shall submit veneer anchoring system to the Engineer for approval. Cost of veneer anchors shall be included with Gateway Monument Sign Complete.

See Gateway Monument Sign Detail on sheet 16 for Aluminum I-Beam,

10′-8″

*★* 8- #5 v(E) bars

at 1'-4" cts.

architectural components and details.

▼

Ε

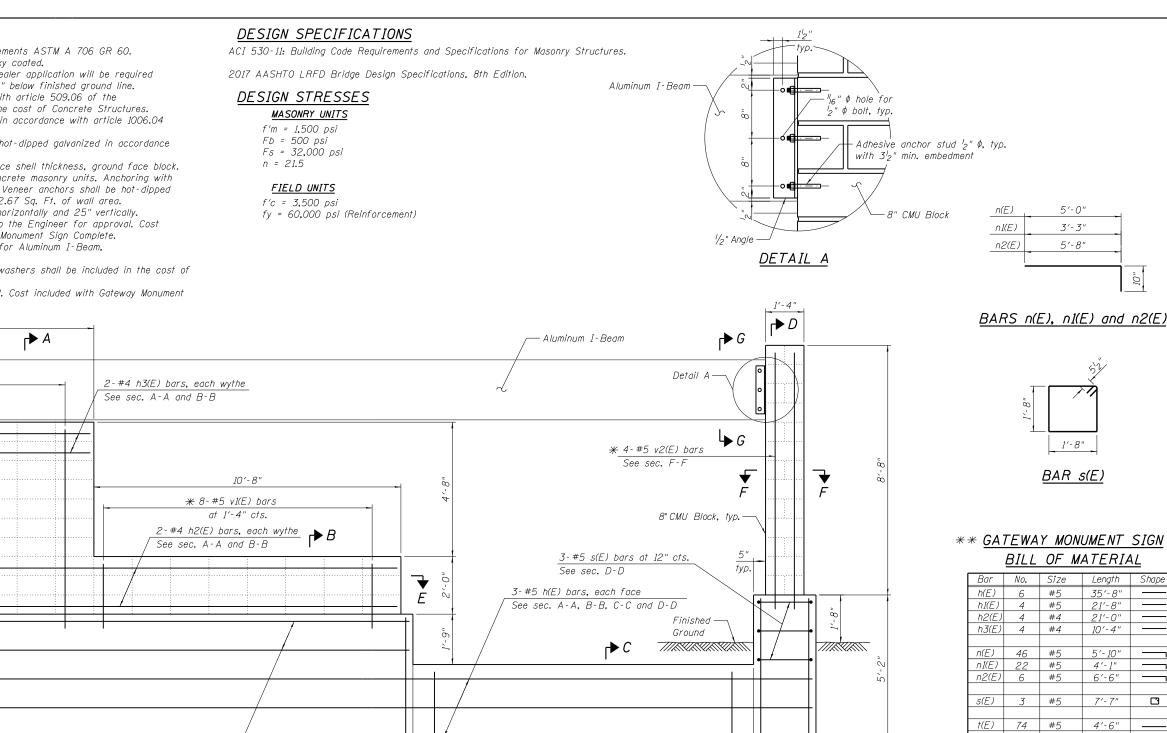
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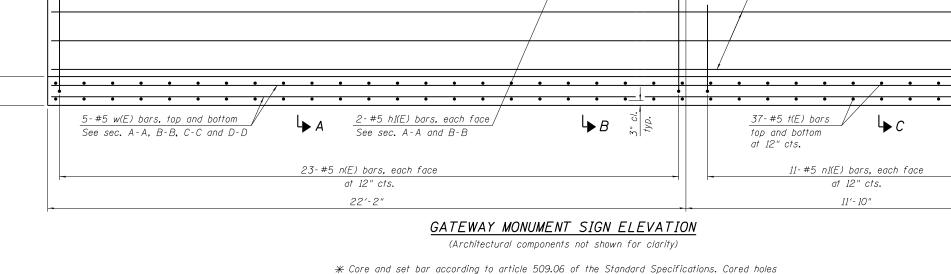
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2 

Cost of steel shapes, bolts, nuts, anchors and washers shall be included in the cost of Concrete Structures.

W1.7 ties and hoops to be hot-dipped galvanized. Cost included with Gateway Monument Sign Complete.





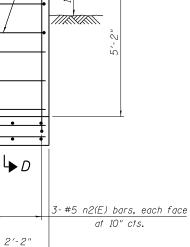
shall be roughened or scored per manufactures recommendations. Depth of hole shall be 10" minimum. Cost shall be included with Reinforcement Bars, Epoxy Coated.

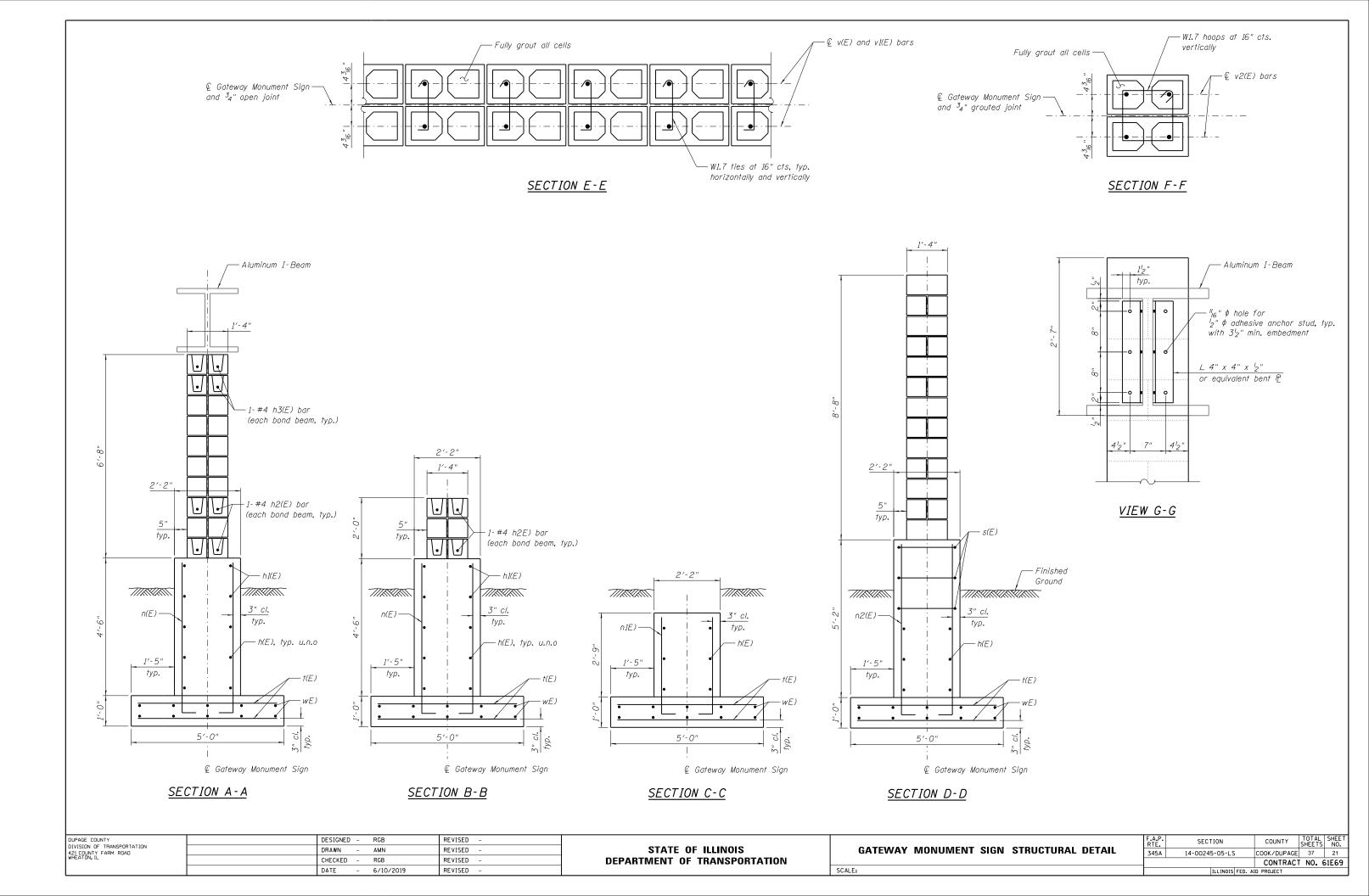
DUPAGE COUNTY	DESIGNED -	RGB	REVISED -			F.A.P. RTE.	SECTION	COUNTY TOTAL SHEET SHEETS NO.
421 COUNTY FARM ROAD WHEATON, IL	DRAWN – CHECKED –	AMN RGB	REVISED – REVISED –	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	GATEWAY MONUMENT SIGN STRUCTURAL DETAIL	345A	14-00245-05-LS	COOK/DUPAGE 37 20
	DATE -	6/10/2019	REVISED -	DEFARIMENT OF TRANSFORTATION	SCALE:		ILLINOIS FED.	CONTRACT NO. 61E69

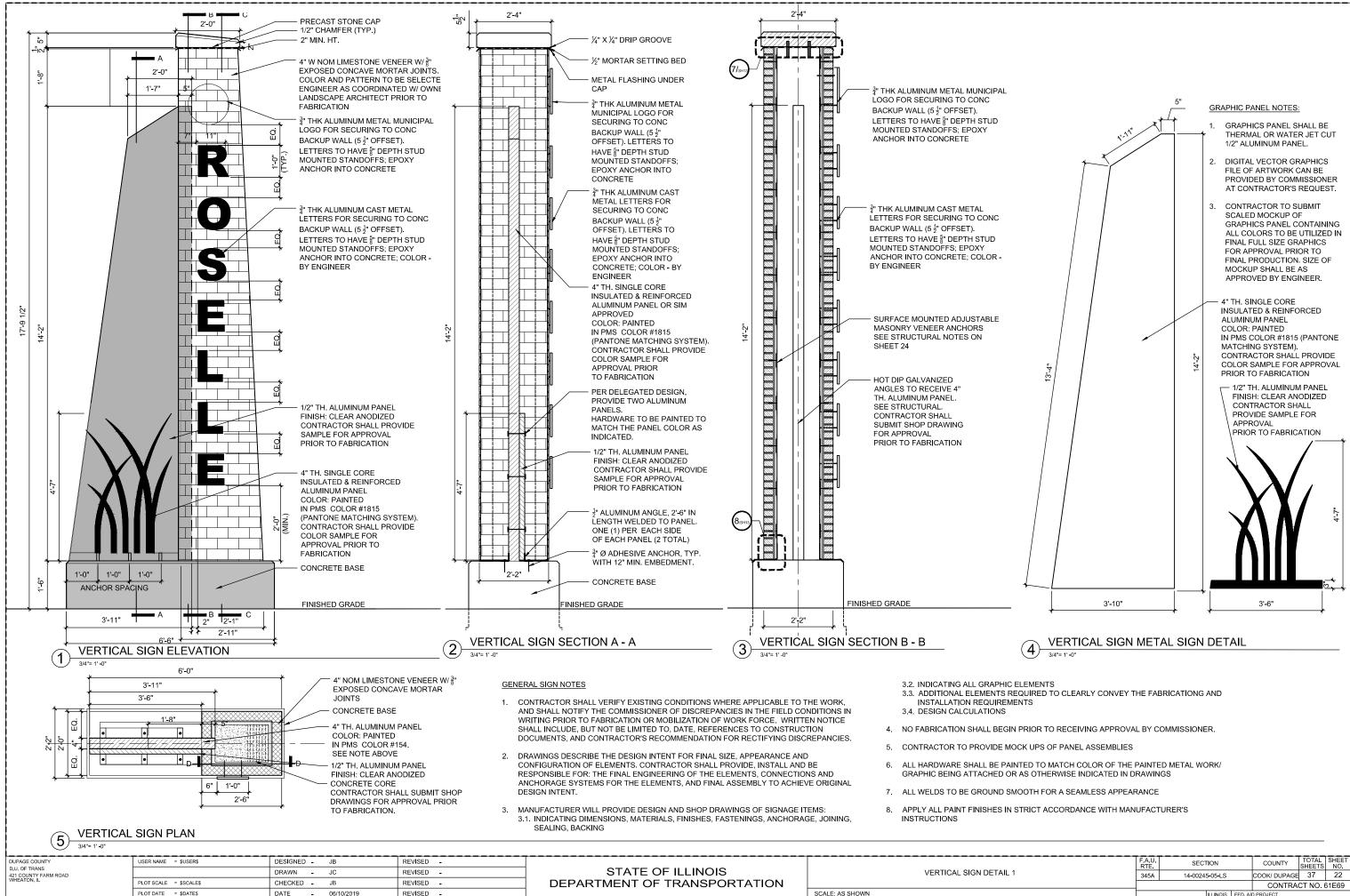
### BARS n(E), n1(E) and n2(E)

Bar	No.	Size	Length	Shape
h(E)	6	#5	35′-8″	
h1(E)	4	#5	21'-8"	
h2(E)	4	#4	21'-0"	
h3(E)	4	#4	10'-4"	
n(E)	46	#5	5′-10″	
n1(E)	22	#5	4'-1"	
n2(E)	6	#5	6'-6"	
s(E)	3	#5	7'-7"	2
†(E)	74	#5	4'-6"	
v(E)	16	#5	7′-6″	
v1(E)	16	#5	2'-6"	
v2(E)	4	#5	9'-2"	
w(E)	10	#5	35′-8″	
	ire Exc		Cu. Yd.	61.0
Concre	te Struc	ctures	Cu. Yd.	18.3
	rcement	Bars,	Pound	1,760
Ероху	Coated			
	te Seale		Sq. Ft.	171
	y Monun	nent	Each	1
Sign C	omplete		20011	*

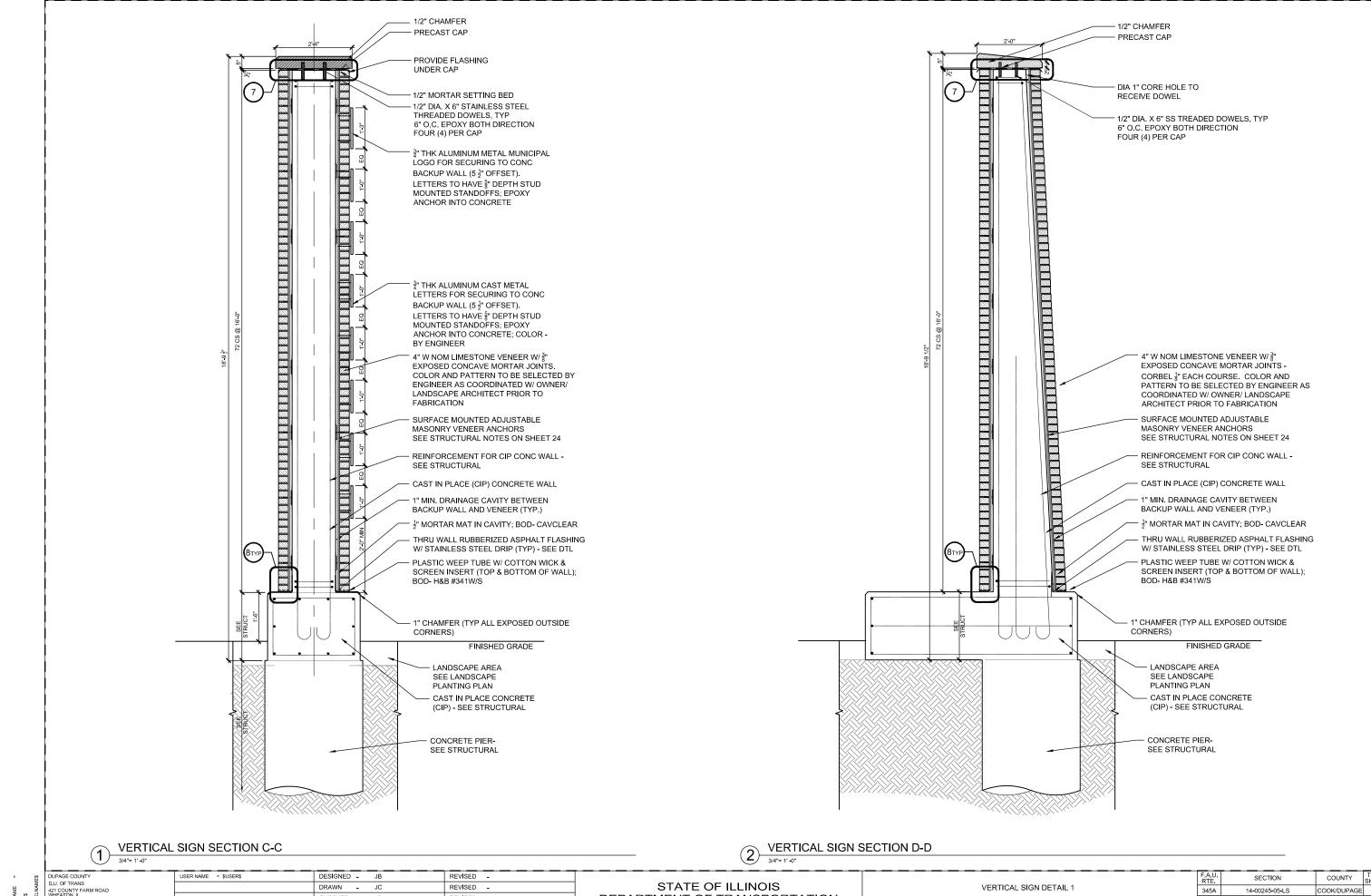
\* & Quantities shown are for one gateway monument.







	F A U RTE	SECT	ION		COUNTY	TOTAL SHEETS	SHEET NO.
DETAIL 1	345A	14-00245	5-05-LS		COOK/ DUPAGE	37	22
					CONTRA	CT NO. 6	51E69
			ILLINOIS	FED. All	D PROJECT		



DUPAGE COUNTY	USER NAME = \$USER\$	DESIGNED -	JB	REVISED -			F.A.U.	SECTION	COUNTY TOTAL SHEET
D.U. OF TRANS 421 COUNTY FARM ROAD		DRAWN -	JC	REVISED -	STATE OF ILLINOIS	VERTICAL SIGN DETAIL 1	345A	14-00245-05-LS	COOK/DUPAGE 37 23
WHEATON, IL	PLOT SCALE = \$SCALE\$	CHECKED -	JB	REVISED -	DEPARTMENT OF TRANSPORTATION				CONTRACT NO. 61E69
	PLOT DATE = \$DATE\$	DATE -	06/10/2019	REVISED -		SCALE: AS SHOWN		ILLINOIS FED	AID PROJECT

### GENERAL NOTES

Reinforcement bars shall conform to the requirements ASTM A 706 GR 60.

Reinforcement bars designated (E) shall be epoxy coated.

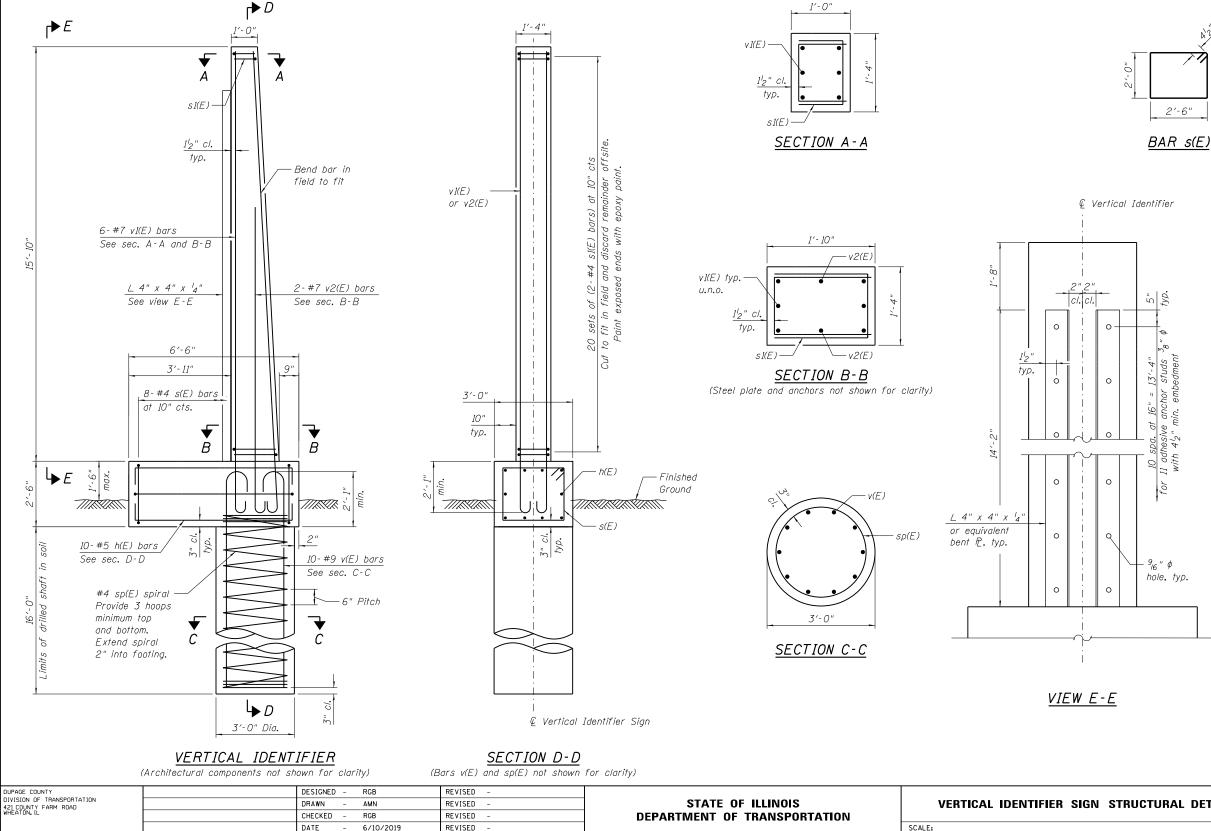
A normal surface finish followed by Concrete Sealer application will be required on concrete surfaces above the lowest elevation 6" below finished ground line. Anchor studs shall be installed in accordance with article 509.06 of the Standard Specifications and shall be included in the cost of Concrete Structures. Steel shapes shall be AASHTO M270 Grade 36 in accordance with article 1006.04 of the Standard Specifications.

Steel shapes, bolts, nuts and washers shall be hot-dipped galvanized in accordance with AASHTO M232 or M111.

Limestone veneer to be directly anchored to concrete. Anchoring with wire ties to the mortar bed will not be permitted. Veneer anchors shall be hot-dipped galvanized. Provide at least one anchor for each 2.67 Sq. Ft. of wall area. Spacing of veneer anchors shall not exceed 32" horizontally and 25" vertically. Contractor shall submit veneer anchoring system to the Engineer for approval. Cost of veneer anchors shall be included with Vertical Identifier Sign Complete.

See Vertical Identifier Sign Details on sheets 19 and 20 for architectural components and details.

Cost of steel shapes, bolts, nuts, anchors and washers shall be included in the cost of Concrete Structures.



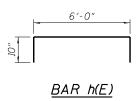
### DESIGN SPECIFICATIONS

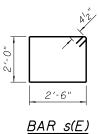
2017 AASHTO LRFD Bridge Design Specifications, 8th Edition

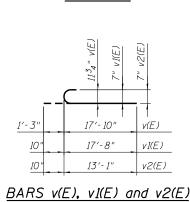
### DESIGN STRESSES

FIELD UNITS

f'c = 3.500 psi fy = 60,000 psi (Reinforcement)







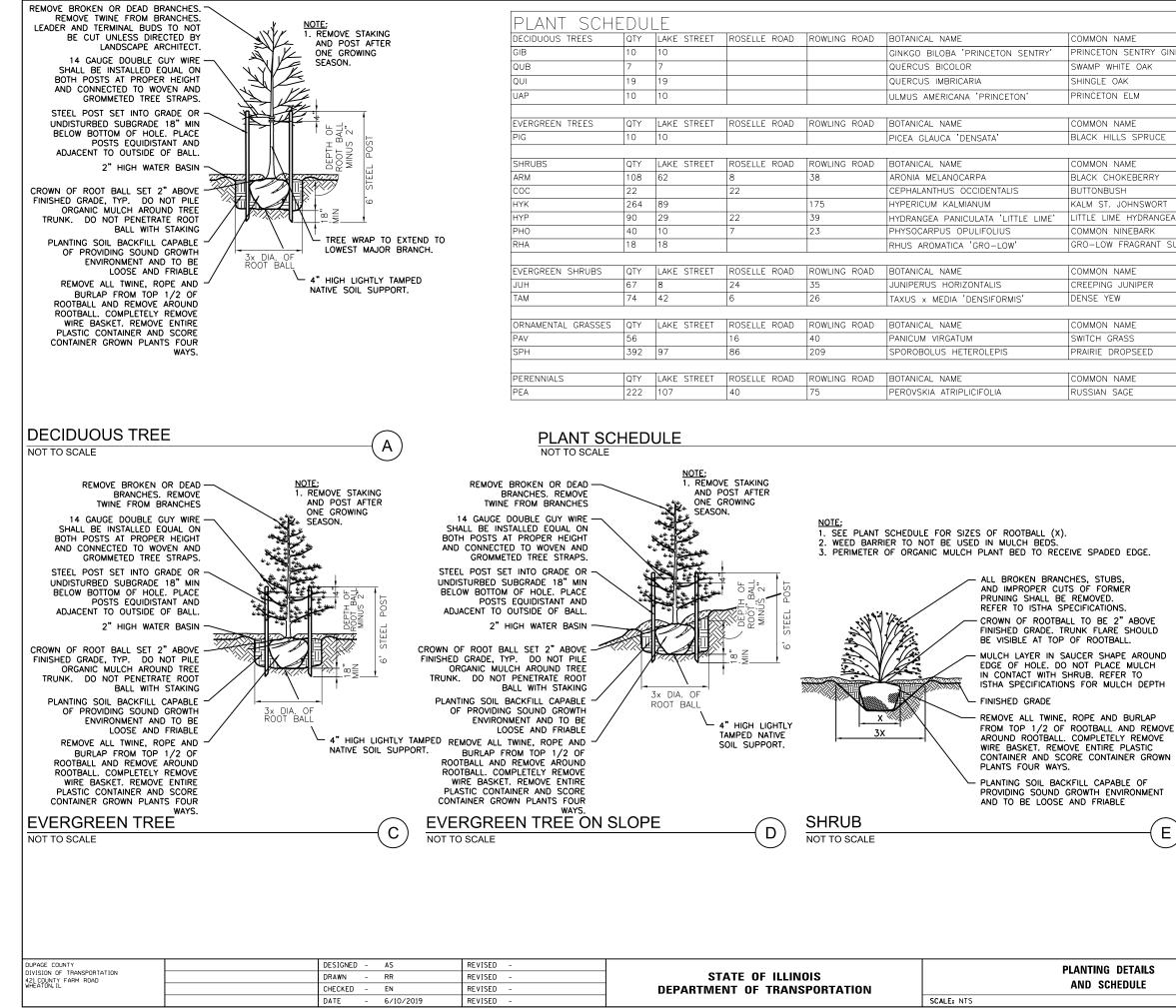
BAR sI(E)

⋇	VERTICAL	ID	ENTIFIER	SIGN
	BILL	OF	MATERIAL	1

		DILL	01 1	AILNI	<u> </u>
	Bar	No.	Size	Length	Shape
	h(E)	10	#5	7′-8″	
	s(E)	8	#4	9′-9″	
	s1(E)	40	#4	4'-3"	
**	sp(E)	1	#4	15′-11″	~~~~
	v(E)	10	#9	19'-1"	
	v1(E)	6	#7	18'-6"	
	v2(E)	2	#7	13′-11″	
	Structu	ire Exc	avation	Cu. Yd.	5.0
	Concre	te Struc	ctures	Cu. Yd.	3.0
		rcement	Bars,	Pound	1.380
		Coated		1 00/10	
	Drilled	Shaft i	n Soil	Cu. Yd.	4.2
	Concre	te Seale	er	Sq. Ft.	134
		l Identii	fier	Each	1
	Sign C	omplete			1

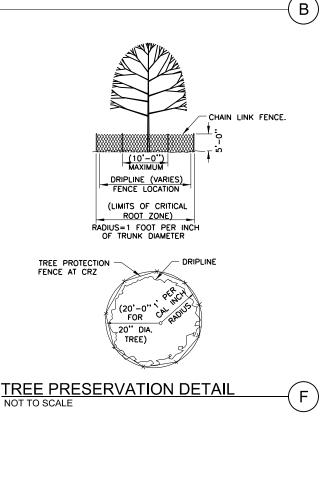
\* Quantities shown are for one vertical identifier. # *H* Length is height of spiral.

	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.				
STRUCTURAL DETAIL	345A	14-00245-05-LS	COOK/DUPAGE	37	24				
			CONTRACT	「 NO. 6	51E69				
	ILLINOIS FED. AID PROJECT								



AME	SIZE	ROOT	SPACING	REMARKS
SENTRY GINKGO	2 1/2" CAL	B&B	VARIES, SEE PLANS	MATCHING SPECIMEN
TE OAK	2 1/2" CAL	B&B	VARIES, SEE PLANS	MATCHING SPECIMEN
к	2 1/2" CAL	B&B	VARIES, SEE PLANS	MATCHING SPECIMEN
ELM	2 1/2" CAL	B&B	VARIES, SEE PLANS	MATCHING SPECIMEN
AME	SIZE	ROOT	SPACING	REMARKS
S SPRUCE	8' HT.	B&B	VARIES, SEE PLANS	MATCHING SPECIMEN
	•			
AME	SIZE	ROOT	SPACING	REMARKS
KEBERRY	2' HT.	CG	5 FT O.C.	
Н	2' HT.	CG	5 FT O.C.	
OHNSWORT	2' HT.	CG	2.5 FT O.C.	
HYDRANGEA	2' HT.	CG	4 FT O.C.	
NEBARK	5 GAL	CG	5 FT O.C.	
RAGRANT SUMAC	2 GAL	CG	5 FT O.C.	
AME	SIZE	ROOT	SPACING	REMARKS
IUNIPER	2' W	CG	6 FT O.C.	
	2' W	CG	5 FT O.C.	
AME	SIZE	ROOT	SPACING	REMARKS
ASS	2 GAL	CG	3 FT O.C.	
OPSEED	2 GAL	CG	2.5 FT O.C.	
	0.75	DOOT		05141040
AME	SIZE	ROOT	SPACING	REMARKS
GE	2 GAL	CG	3 FT O.C.	

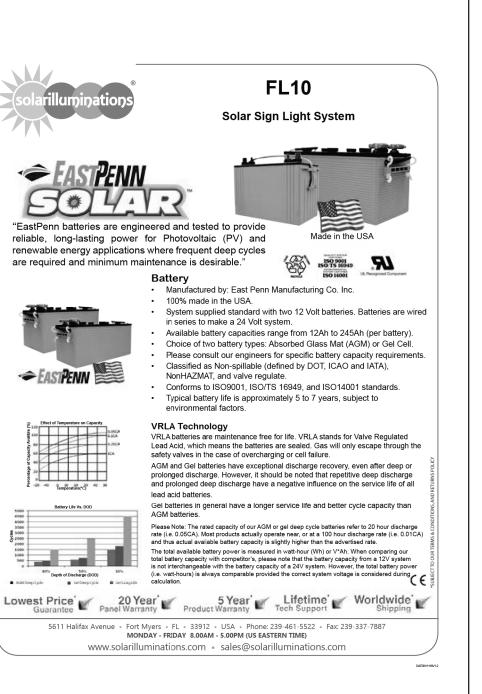
Е



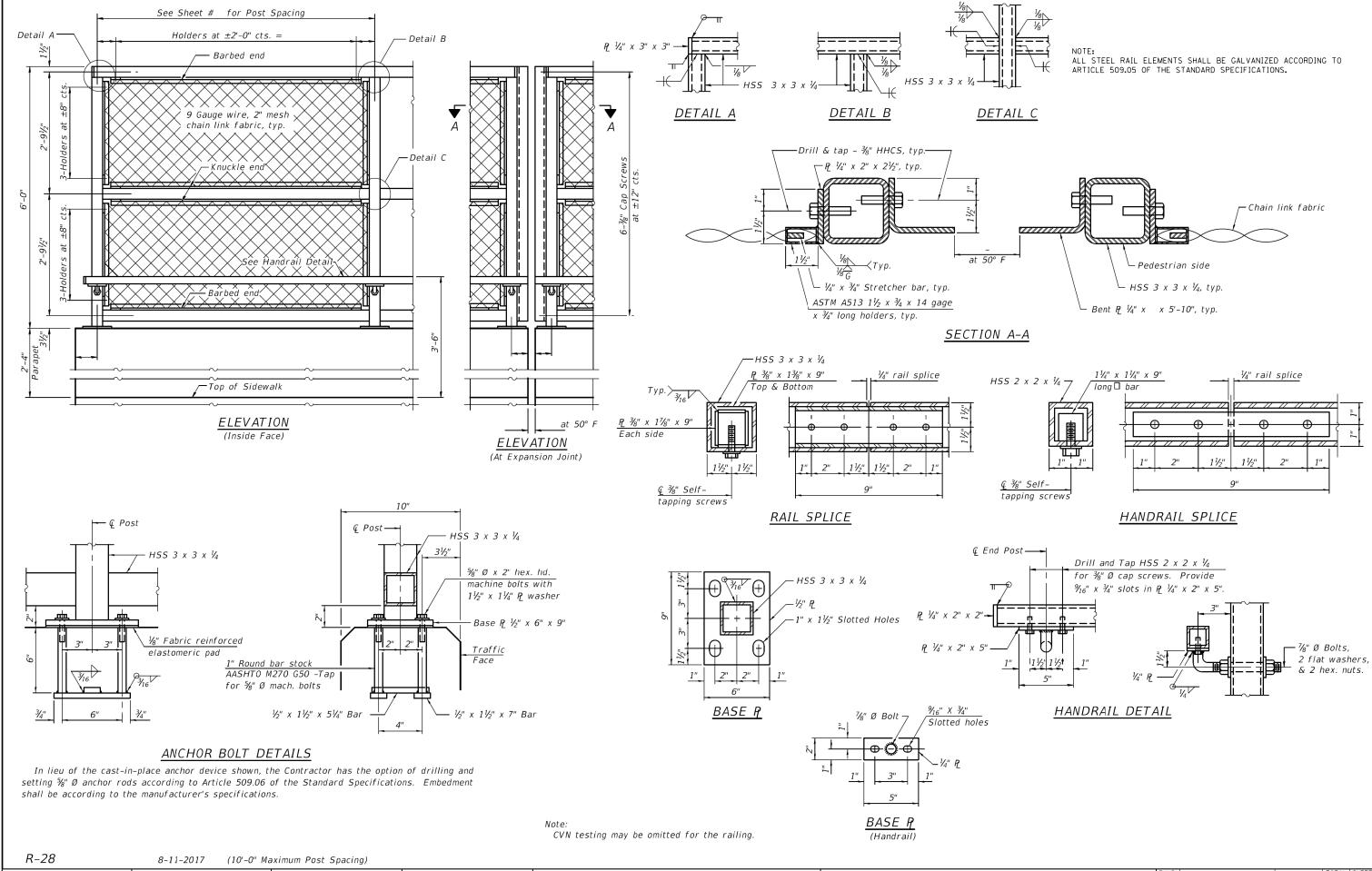
DETAILS	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.				
EDULE	345A	14-00245-05-LS	COOK/DUPAGE	37	25				
			CONTRACT	NO. 6	51E69				
ILLINOIS FED. AID PROJECT									

larilluminat	ions	FL1 Solar Sign Lig		solarilluminations	<b>FL10</b> Solar Sign Light System
c Bus ( )	5W, 10W, 20W fixture increase light fixture is of follows: 5W: Up 10W: U The above sign di the face of the sig	<ul> <li>7, or 30W. Increasing the sthe light spread, as vapable of illuminating so to 8' x 8'</li> <li>9 to 8' x 8'</li> <li>9 to 12' x 10'</li> <li>9 imensions are based on the lin.</li> </ul>	one light fixture offered in e power (Wattage) of the light rell as the light intensity. Each igns with the dimensions as DW: Up to 14' x 12' DW: Up to 18' x 12' ight fixture mounted approx. 6' from usk to dawn. Additional illumi- st.		Solar Panel Systems are supplied with high quality monocrystalline of polycrystalline solar panels with the highest performance and efficiency. They are designed to endure the harshest environments and are guaranteed to provide power for well over 20 years. Typically manufactured in the USA, Canada, or Germany. The solar pane power is subject to LED consumption, installation location, and illumination period. Please consult with our engineers for specific details and solar power recommendations. Photovoltaic Module • Highly efficient monocrystalline or polycrystalline solar panel with aluminum frame, anti-aging, and encapsulated membrane. • Anti-reflective and anti-soling surface that reduces power losses from
Color Temperate CRI Input Power Lumens Viewing Angle Input Voltage Driver Model	ure 5700k >70 5W, 10W, 20W or 30W 5W 665 lm 10W 1330 lm 20W 2660 lm 30W 3990 lm 7H7V 24V DC Meanwell	Waterproof Rating LED Brand LED Type Cable Length PF Housing Housing Color Operating Lemperatu Safety Certification	IP65           LUMILEDS           LUXEON 3030 2D           20'           >0.9           Aluminum, PC, Steel           Brown / Bronze           '2-4* to 113*F           UL, cUL, DLC	MC4 Connector	<ul> <li>dirt and dust.</li> <li>Certified to withstand high wind loads (340PSI) and snow loads (780PSI); and resistance to high salt and ammonia.</li> <li>Manufactured to international standards, verified and certified by independent testing laboratories. (UL, ETL, IEC, MCS, &amp; TUV)</li> <li>Assembled to strict quality control standards; international standards ISO 9001 and ISO 14001.</li> <li>Range of solar panel power available from 45W to +500W.</li> <li>The solar panel power is subject to LED consumption, installation location, and illumination period. Please consult our engineers for specific solar panels can be supplied in a single or dual format (2 x 70W = 140W, 2 x 100W = 200W etc.)</li> </ul>
	7" 5.8"		Subarc To our Teams a constructs. And a first and a fi	Poservicitage Curve reaction of the second	<ul> <li>Typical solar panel life is over 30 years, subject to environmental factors.</li> <li>45W panel dimensions: 34.25" x 20.13" x 1.5"</li> <li>70W panel dimensions: 32.35" x 26.22" x 1.5"</li> <li>90W panel dimensions: 40.25" x 26.25" x 1.5"</li> <li>100W panel dimensions: 47.87" x 26.43" x 1.5"</li> <li>140W panel dimensions: 44" x 38.7" x 1.5" (or may be supplied as two 70W panels).</li> <li>240W panel dimensions: 64.38" x 39" 1.5"</li> <li>280W panel consists of two 140W panels.</li> </ul>
5611 Halifax Aver	nue • Fort Myers • FL • 33912	2 • USA • Phone: 239-461- M - 5.00PM (US EASTERN TIM	5522 • Fax: 239-337-7887 E)	5611 Halifax Avenue • For	Year' 5 Year' Lifetime' Worldwide'

	PAGE COUNTY	DESIGNED -	AS	REVISED -		
DI\ 42	/ISION OF TRANSPORTATION 1 COUNTY FARM ROAD EATON, IL	DRAWN -	RR	REVISED -	STATE OF ILLINOIS	LIGHTING DET
WH	EATON, IL	CHECKED -	EN	REVISED -	DEPARTMENT OF TRANSPORTATION	
		DATE -	6/10/2019	REVISED -		SCALE: NTS

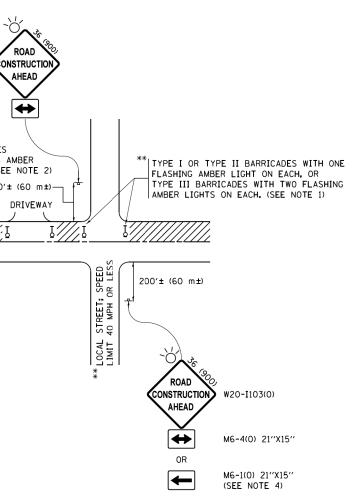


	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
ETAIL	345A	14-00245-05-LS	COOK/DUPAGE	37	26
			CONTRAC	T NO. 6	51E69
		ILL INDIS FED.	AID PROJECT		

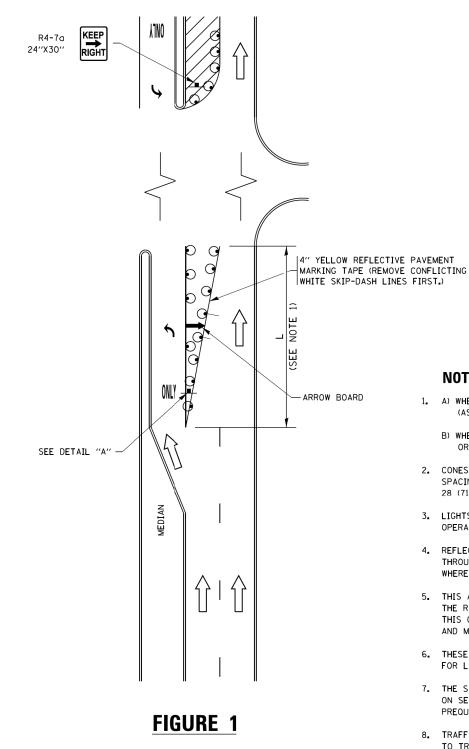


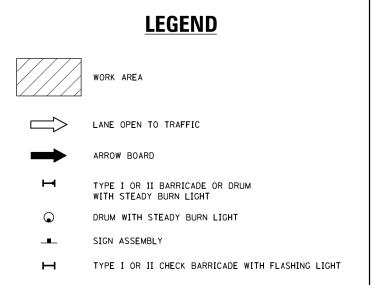
	0 II 2017 (10 0 Haxi	main rost spacing,							
DUPAGE COUNTY	DE	ESIGNED – AS	REVISED -			F.A.P.	SECTION	COUNTY T	TOTAL SHEET
DIVISION OF TRANSPORTATION 421 COUNTY FARM ROAD	DF	RAWN – RR	REVISED -	STATE OF ILLINOIS	BRIDGE FENCE RAILING, PARAPET MOUNTED DETAIL	345A	14-00245-05-LS	COOK/DUPAGE	37 27
WHEATON, IL	CF	HECKED – EN	REVISED -	DEPARTMENT OF TRANSPORTATION				CONTRACT	NO. 61E69
	DA	ATE - 6/10/2019	REVISED -		SCALE: NTS		ILLINOIS FED.	AID PROJECT	

				TYPE III BARRICADES WITH TWO FLASHING AMBER LIGHTS ON EACH. (SEE NOTE 2) 200't (60 mt) DRIVEWAY WORK AREA'I UT WORK AREA'I UT TOUST WORK AREA'I UT TOUST WORK AREA'I UT TOUST WORK AREA'I	TYPE I OR TYPE II BARRICADES WITH ONE FLASHING AMBER LIGHT ON EACH, OR TYPE III BARRICADES WITH WO FLASHING AMBER LIGHTS ON EACH. (SEE NOTE 1)
			SHOWN ON THE DRAWING AN a) ONE "ROAD CONSTRUC MOUNTED ON IT APPF b) THE CLOSED PORTION BLOCKING WITH TYPE THE CROSS SECTION 2. SIDE ROAD WITH A SPEED AS SHOWN ON THE DRAWING a) ONE "ROAD CONSTRUC FLASHER MOUNTED ON OF THE MAIN ROUTE. b) THE CLOSED PORTION BLOCKING WITH TYPE OF THE CLOSED PORTION BLOCKING DURING DAY OPER IN HEIGHT. 4. WHEN THE SIDE ROAD LIES SIGNING AND THE WORK ZO	ND AS DIRECTED BY THE ENGINEER: CTION AHEAD" SIGN 36 × 36 (900×900) WITH A FLASHER ROXIMATELY 200' (60 m) IN ADVANCE OF THE MAIN ROUTE. I OF THE MAIN ROUTE SHALL BE PROTECTED BY I, TYPE II OR TYPE III BARRICADES, 1/3 OF OF THE CLOSED PORTION. LIMIT GREATER THAN 40 MPH (60 km/h) G AND AS DIRECTED BY THE ENGINEER: CTION AHEAD" SIGN 48 × 48 (1.2 m × 1.2 m) WITH A N IT APPROXIMATELY 500' (150 m) IN ADVANCE I OF THE MAIN ROUTE SHALL BE PROTECTED BY III BARRICADES, 1/2 OF THE CROSS SECTION	<ul> <li>5. WHEN WORK IS BEING PERFORMED ON A SIDE ROAD OR DRIVEWAY, FOLLOW THE APPLICABLE STANDARD(S). THE DIRECTIONAL ARROW (MG-1 OR MG-4) SHALL BE COVERED OR REMOVED WHEN NO LONGER CONSISTENT WITH THE TRAFFIC CONTROL SET-UP.</li> <li>6. ADVANCE WARNING SIGNS ARE TO BE OMITTED ON DRIVEWAYS UNLESS OTHERWISE SPECIFIED IN THE PLANS OR BY THE ENGINEER.</li> <li>7. THE TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS SHALL BE INCLUDED IN THE COST OF SPECIFIED TRAFFIC CONTROL STANDARDS OR ITEMS.</li> </ul>
pwt//LL084EBIDINTEG.111no1s.gov#PWIDOT/Dopuments/IDOT_Offices/District 1/Projects/Dist PLOT_SCALE = 50.000 // in. CH	SIGNED – L.H.A. ZAWWY\CADDeta\CADsheets\tcl0.dgn #ECKED – ITE – 06-89	REVISED         -         A. HOUSEH 10-15-96           REVISED         -T. RAMMACHER 01-06-00           REVISED         - A. SCHUETZE 07-01-13           REVISED         - A. SCHUETZE 09-15-16	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	TRAFFIC CONTROL AND PROTECTION FO SIDE ROADS, INTERSECTIONS, AND DRIVEW SCALE: NONE SHEET 1 OF 1 SHEETS STA.	



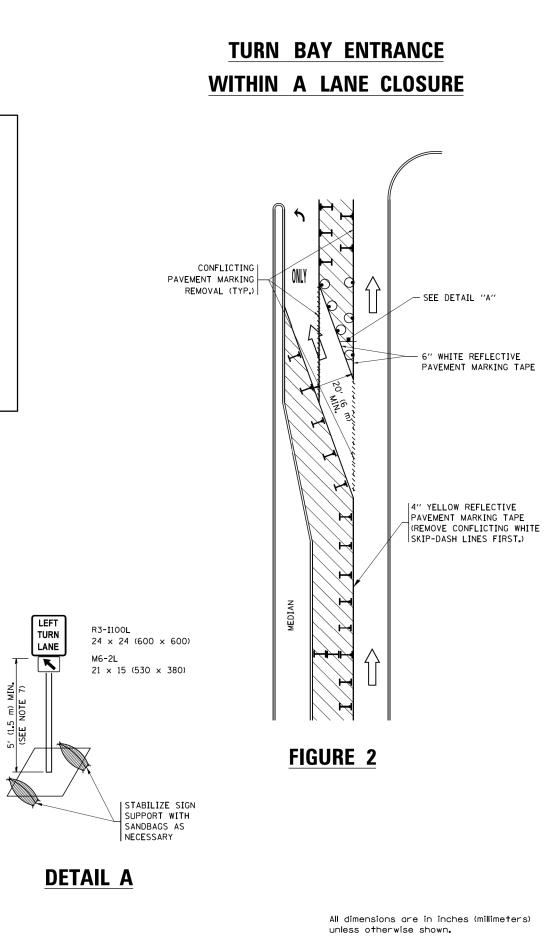
# TURN BAY ENTRANCE AT START **OF LANE CLOSURE TAPER**



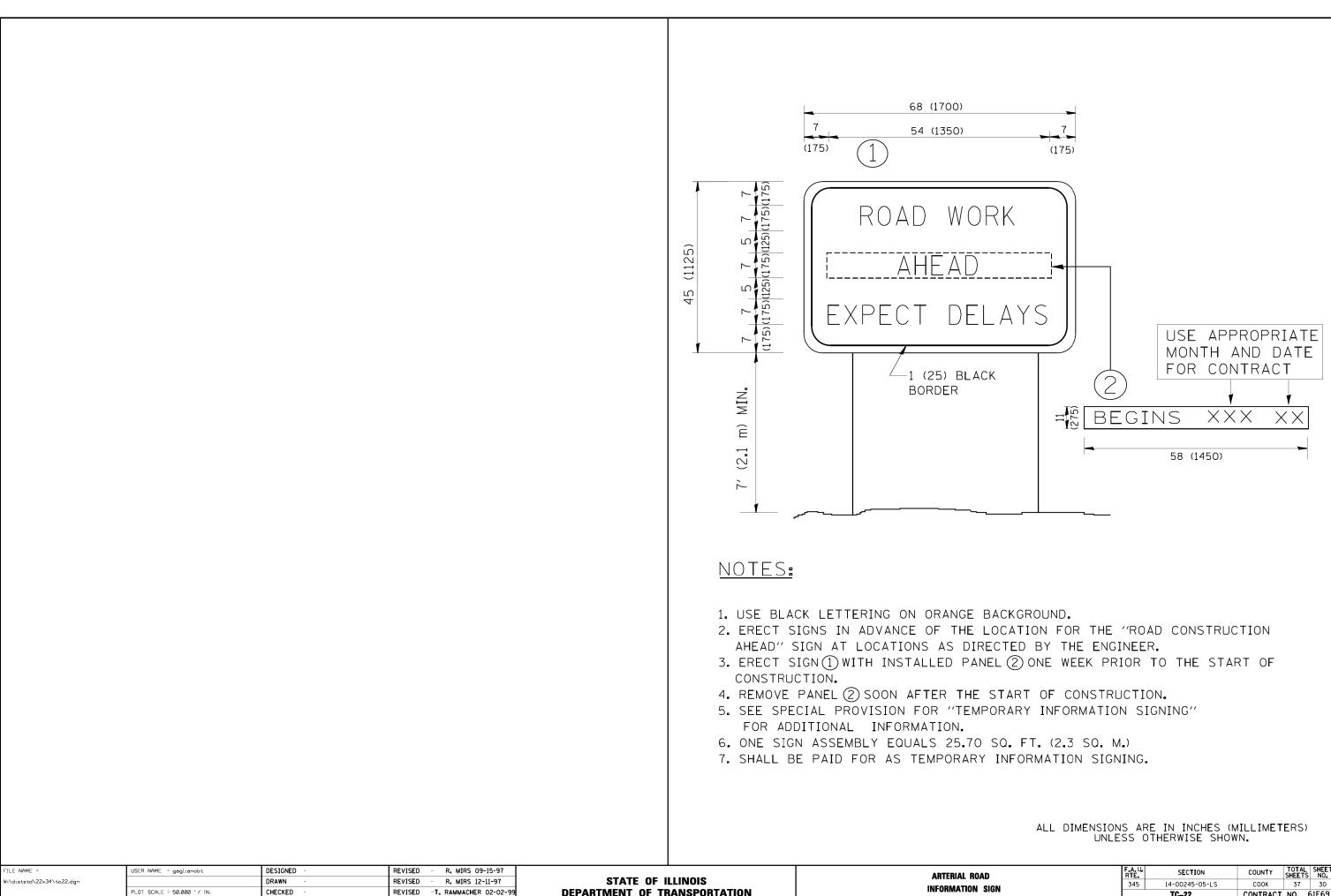


### NOTES:

- 1. A) WHEN "L" IS ≤ THE STORAGE LENGTH OF THE TURN LANE (AS SHOWN IN FIG. 1), USE FIGURE 1.
  - B) WHEN "L" IS > THE STORAGE LENGTH OF THE TURN LANE OR THE TURN LANE IS WITHIN THE LANE CLOSURE, USE FIGURE 2.
- 2. CONES MAY BE SUBSTITUTED FOR BARRICADES OR DRUMS AT HALF THE SPACING DURING DAY OPERATIONS. CONES SHALL BE A MINIMUM OF 28 (710) IN HEIGHT.
- 3. LIGHTS WILL NOT BE REQUIRED ON BARRICADES OR DRUMS FOR DAY OPERATIONS. ALL LIGHTS SHALL BE MONODIRECTIONAL.
- 4. REFLECTIVE TEMPORARY PAVEMENT MARKINGS SHALL BE PLACED THROUGHOUT THE BARRICADED AREAS OF EACH TURN BAY AS SHOWN WHERE THE CLOSURE TIME IS GREATER THAN FOURTEEN (14) DAYS.
- 5. THIS APPLICATION ALSO APPLIES WHEN WORK IS BEING PERFORMED IN THE RIGHT LANE(S) AND THE RIGHT TURN BAY IS TO REMAIN OPEN. UNDER THIS CONDITION, "RIGHT TURN LANE" R3-IIOOR 24 x 24 (600 x 600) AND M6-2R 21 × 15 (530 × 380) SHALL BE USED.
- 6. THESE CONTROLS SHALL SUPPLEMENT MAINLINE TRAFFIC CONTROL FOR LANE CLOSURES.
- 7. THE SIGNS SHALL BE MOUNTED ABOVE THE BARRICADES/DRUMS ON SEPARATE SIGN SUPPORTS THAT MEET NCHRP 350 OR MASH PREQUIREMENTS.
- 8. TRAFFIC CONTROL AND PROTECTION AT TURN BAYS (TO REMAIN OPEN TO TRAFFIC) SHALL BE INCLUDED IN THE COST OF SPECIFIED TRAFFIC CONTROL STANDARDS OR ITEMS.



FILE NAME =	USER NAME = footemj	REVISED	-T. RAMMACHER O			- R. BORO 09-14-09		TB4	AFFIC CO	ONTRO		PROTE	CTION AT	TURN BAYS	F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEL SHEETS NO
pw:\\ILØ84EBIDINTEG.1ll1no1s.gov:PWIDOT\Do	cuments\IDOT Offices\District 1\Projects\Dist	6 trexised add	hoto\CADsHOUSEH141	⊬ <sub>9</sub> 07-95 R	VISED	- A. SCHUETZE 07-01-13	STATE OF ILLINOIS								345	14-00245-05-LS	соок	37 25
	PLOT SCALE = 50.0000 ' / 10.	REVISED	<ul> <li>A. HOUSEH 10</li> </ul>	-12-96 R	VISED	- A. SCHUETZE 09-15-16	DEPARTMENT OF TRANSPORTATION			(IU NE	WAIN	UPEN	TO TRAFF	(C)		TC-14	CONTRAC	T NO. 61E6
Default	PLOT DATE = 9/15/2016	REVISED	-T. RAMMACHER O	-06-00 R	VISED	-		SCALE: NONE	SHEET	Γ1	OF 1	SHEETS	S STA.	TO STA.			AID PROJECT	



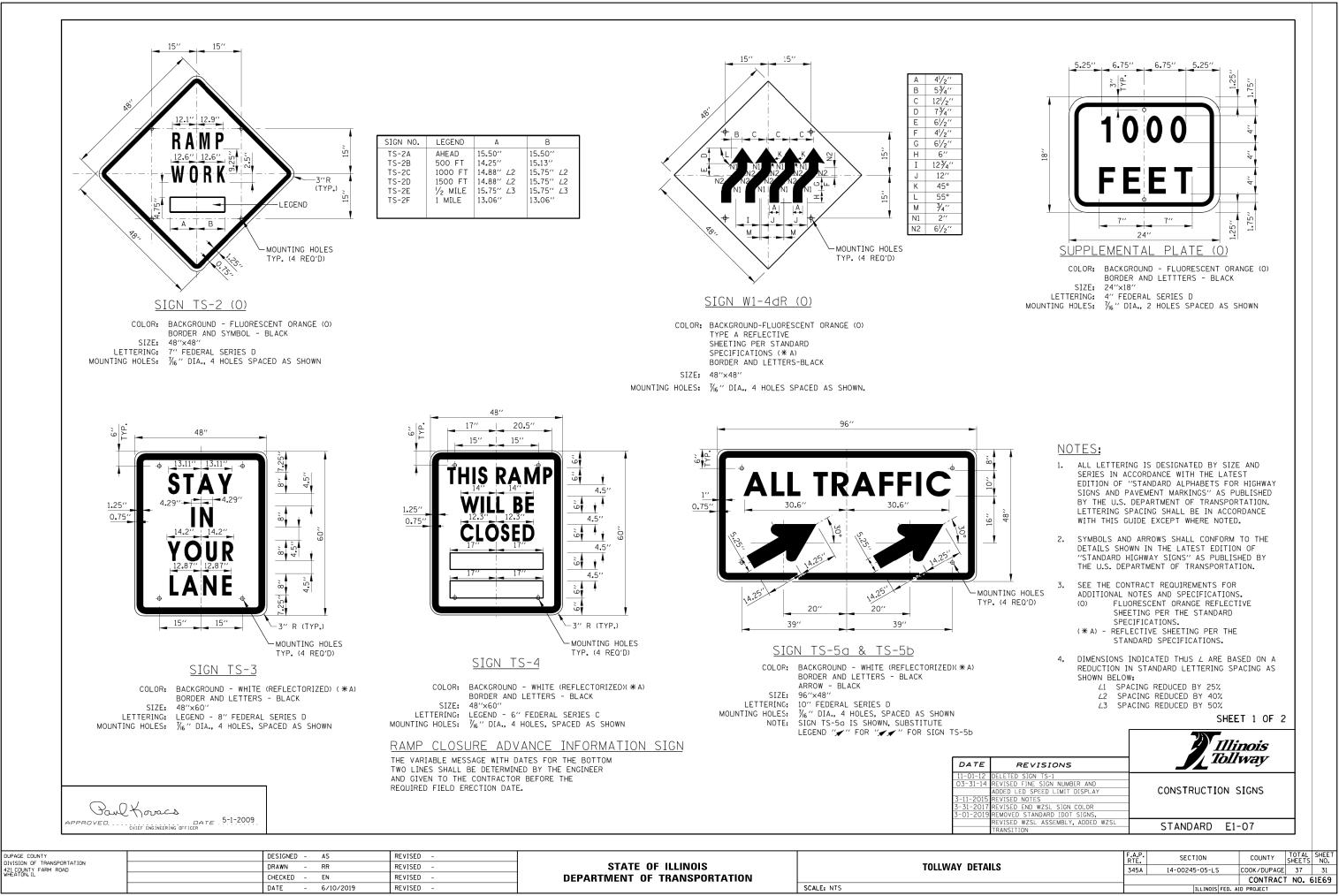
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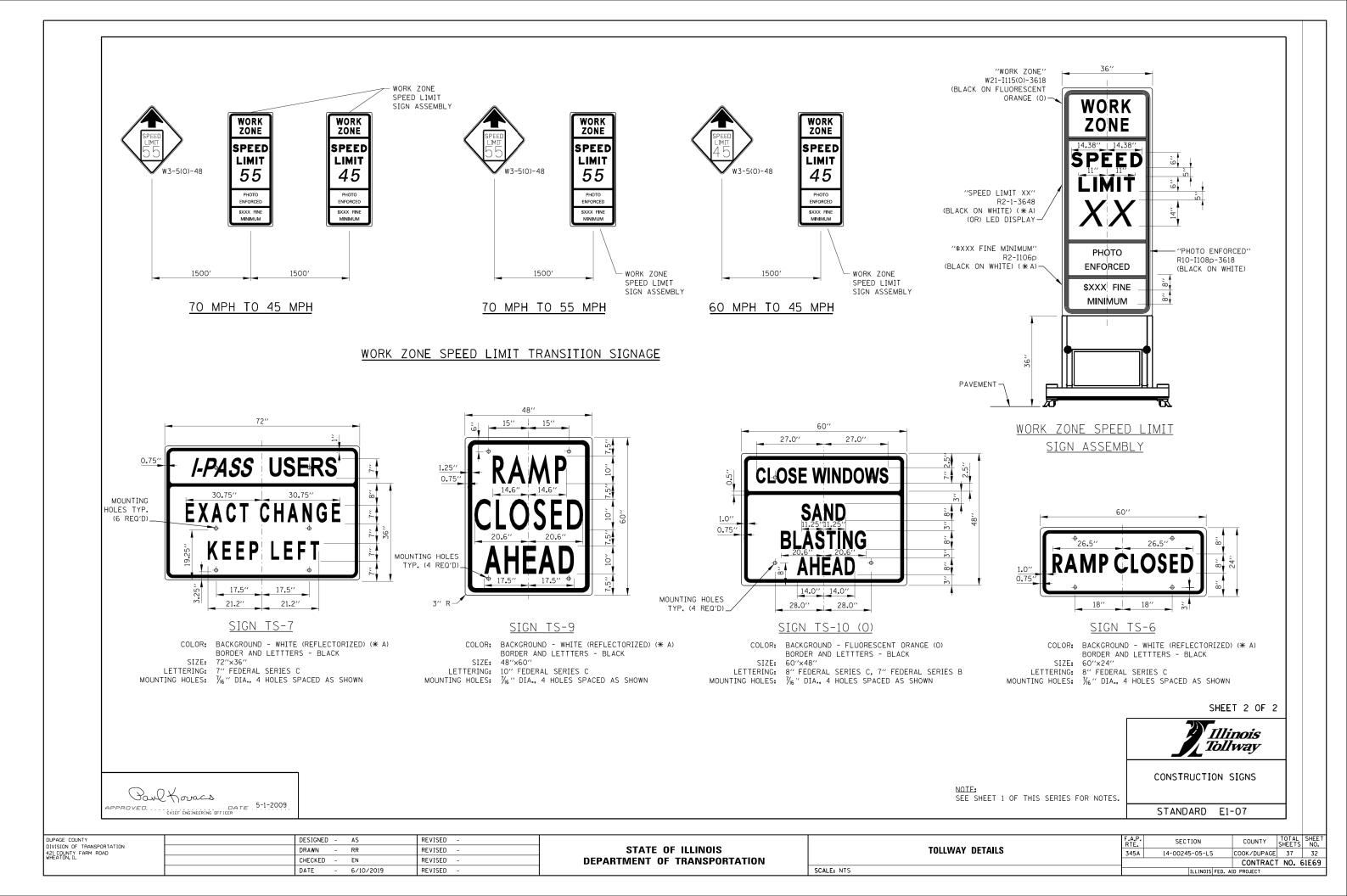
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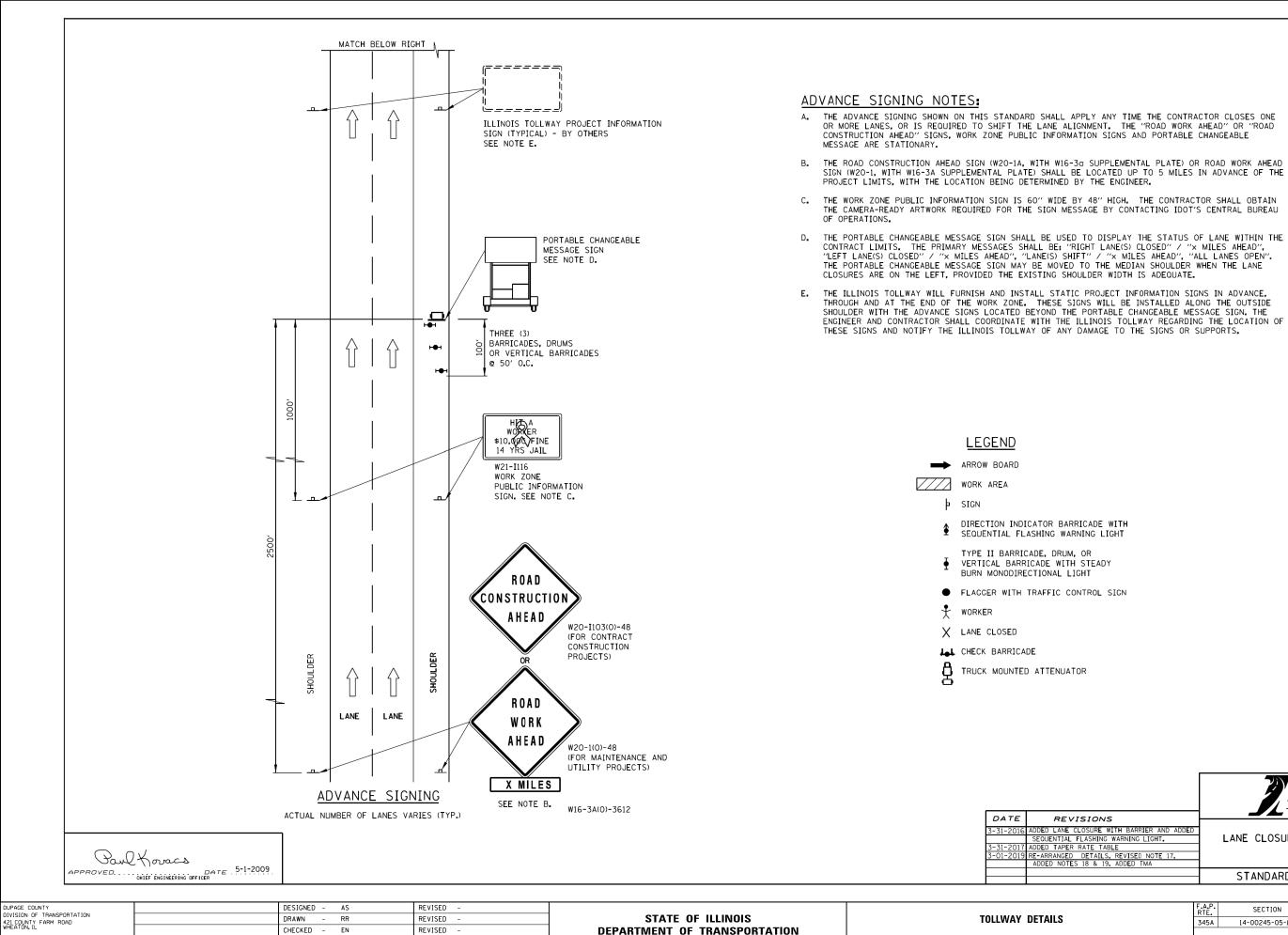
REVISED

- C.

R. MIRS 09-15-97			ART	ERIAL RO	AD		F.A.U. RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
R. MIRS 12-11-97	STATE OF ILLINOIS	INFORMATION SIGN					345	14-00245-05-LS	СООК	37	30
AMMACHER 02-02-99							_	TC22	CONTRACT	NO. 6	51E69
C. JUCIUS 01-31-07		SCALE: NONE	SHEET NO. 1 OF 1	SHEETS	STA.	TO STA.	FED. RO/	D DIST. NO. 1 ILLINOIS FED. A	D PROJECT		







DATE - 6/10/2019

REVISED

SCALE: NTS

SIGN (W2O-1, WITH W16-3A SUPPLEMENTAL PLATE) SHALL BE LOCATED UP TO 5 MILES IN ADVANCE OF THE

ENGINEER AND CONTRACTOR SHALL COORDINATE WITH THE ILLINOIS TOLLWAY REGARDING THE LOCATION OF

SHEET 1 OF 3	
Illinois Tollway	

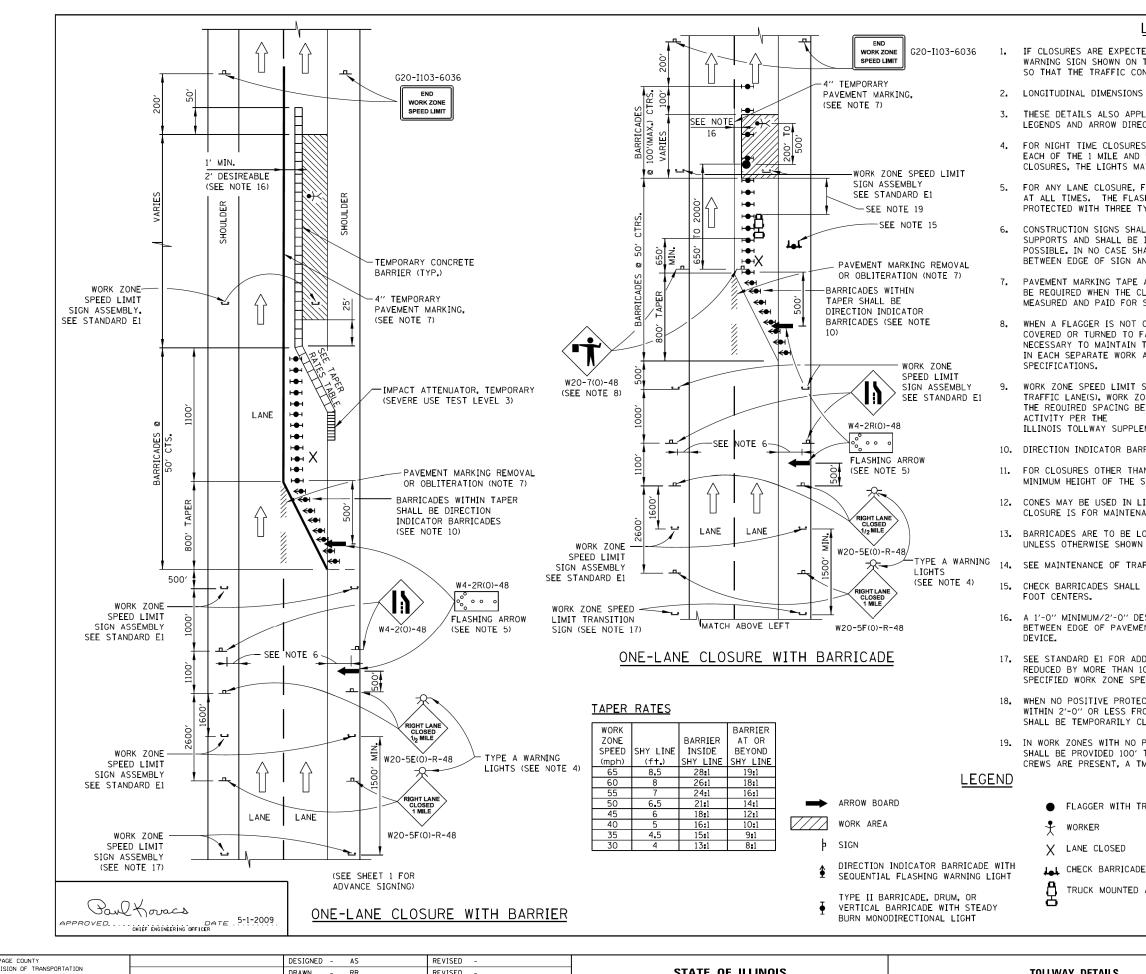
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LANE CLOSURE DETAILS

DED LANE CLOSURE WITH BARRIER AND ADDE SEQUENTIAL FLASHING WARNING LIGHT. ADDED TAPER RATE TABLE
 PRE-ARRANGED DETAILS, REVISED NOTE 17,
 ADDED NOTES 18 & 19, ADDED TMA

STANDARD E2-08

FTAU 0	F.A.P. RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
ETAILS	345A	14-00245-05-LS	COOK/DUPAGE	37	33
			CONTRACT	NO. 6	51E69
	ILLINOIS FED. AID PROJECT				



JPAGE COUNTY VISION OF TRANSPORTATION 21 COUNTY FARM ROAD HEATON, IL	DESIGNED - DRAWN -	AS RR	REVISED - REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	TOLLWAY DETAILS	F.A.P. RTE. 345A	SECTION 14-00245-05-LS	COUNTY COOK/DUPAGE	SHEETS	SHEET NO. 34
	CHECKED -	EN	REVISED -						CONTRACT NO. 61E69	
	DATE -	6/10/2019	REVISED -		SCALE: NTS		ILLINOIS FED. AI	ID PROJECT		

### LANE CLOSURE NOTES:

IF CLOSURES ARE EXPECTED TO PRODUCE TRAFFIC BACKUPS EXTENDING BEYOND THE FIRST WARNING SIGN SHOWN ON THE DETAILS, ADDITIONAL UPSTREAM SIGNS SHALL BE PLACED SO THAT THE TRAFFIC CONTROL ZONE ENCOMPASSES THE ANTICIPATED BACKUP ZONE.

2. LONGITUDINAL DIMENSIONS MAY BE ADJUSTED SLIGHTLY TO FIT FIELD CONDITIONS.

THESE DETAILS ALSO APPLY TO OPPOSITE HAND LANE CLOSURES BY CHANGING SIGN LEGENDS AND ARROW DIRECTIONS TO INDICATE THE APPROPRIATE CLOSURE.

4. FOR NIGHT TIME CLOSURES, ONE TYPE A WARNING LIGHT SHALL BE INSTALLED ABOVE EACH OF THE 1 MILE AND  $^{\prime}\!\!/_2$  MILE ADVANCE WARNING SIGNS. FOR DAYLIGHT-ONLY CLOSURES. THE LIGHTS MAY BE OMITTED.

5. FOR ANY LANE CLOSURE, FLASHING ARROW BOARDS SHALL BE REQUIRED AND IN OPERATION AT ALL TIMES. THE FLASHING ARROW BOARD IN ADVANCE OF THE TAPER SHALL BE PROTECTED WITH THREE TYPE II BARRICADES AT 50' O.C.

6. CONSTRUCTION SIGNS SHALL GENERALLY BE POST-MOUNTED OR ATTACHED TO PORTABLE SUPPORTS AND SHALL BE INSTALLED 8' TO 12' FROM ADJACENT TRAVEL LANE WHEREVER POSSIBLE. IN NO CASE SHALL SIGNS BE LOCATED TO PROVIDE LESS THAN 2' CLEARANCE BETWEEN EDGE OF SIGN AND ADJACENT TRAVEL LANE.

PAVEMENT MARKING TAPE AND REMOVAL OR OBLITERATION OF EXISTING MARKINGS SHALL BE REQUIRED WHEN THE CLOSURE TIME EXCEEDS FOUR DAYS. THIS WORK SHALL BE MEASURED AND PAID FOR SEPARATELY.

WHEN A FLAGGER IS NOT ON STATION, THE FLAGGER SIGN SHALL BE PROMPTLY REMOVED, COVERED OR TURNED TO FACE AWAY FROM TRAFFIC. FLAGGER SIGNS SHALL BE MOVED AS NECESSARY TO MAINTAIN THE REQUIRED SPACING BETWEEN THE SIGNS AND THE WORKERS IN EACH SEPARATE WORK ACTIVITY, PER THE ILLINOIS TOLLWAY SUPPLEMENTAL

WORK ZONE SPEED LIMIT SIGN ASSEMBLIES, SHALL BE PLACED ADJACENT TO THE OPEN TRAFFIC LANE(S). WORK ZONE SPEED SIGNS SHALL BE MOVED AS NECESSARY TO MAINTAIN THE REQUIRED SPACING BETWEEN SIGNS AND THE WORKERS IN EACH SEPARATE WORK

ILLINOIS TOLLWAY SUPPLEMENTAL SPECIFICATIONS.

10. DIRECTION INDICATOR BARRICADES SHALL BE USED IN LANE TAPERS.

11. FOR CLOSURES OTHER THAN SHORT TERM (SUNRISE TO ONE HOUR BEFORE SUNSET), THE MINIMUM HEIGHT OF THE SIGN FROM SHOULDER ELEVATION SHALL BE 7'-O".

12. CONES MAY BE USED IN LIEU OF BARRICADES IN THE BUFFER AND WORK AREAS, WHEN THE CLOSURE IS FOR MAINTENANCE OPERATIONS.

13. BARRICADES ARE TO BE LOCATED AT JOINT LINE WHEN WORK AREA EXTENDS UP TO JOINT UNLESS OTHERWISE SHOWN ON THE PLANS.

TYPE A WARNING 14. SEE MAINTENANCE OF TRAFFIC DRAWINGS FOR ADDITIONAL SIGNING IN THIS AREA.

15. CHECK BARRICADES SHALL BE PLACED IN EACH CLOSED LANE AND SHOULDER AT 1000

16. A 1'-O" MINIMUM/2'-O" DESIRABLE SHY DISTANCE SHALL BE PROVIDED, MEASURED BETWEEN EDGE OF PAVEMENT LANE MARKING TO THE EDGE OF THE TRAFFIC CONTROL

17. SEE STANDARD E1 FOR ADDITIONAL SIGNAGE REQUIRED WHEN WORK ZONE SPEED LIMIT IS REDUCED BY MORE THAN 10 MPH. THE SPEED LIMIT SHALL BE TRANSITIONED TO THE SPECIFIED WORK ZONE SPEED LIMIT 2600 FEET BEFORE THE FIRST W4-2 SIGN.

18. WHEN NO POSITIVE PROTECTION IS PROVIDED AND WORKERS OR EQUIPMENT ENCROACH WITHIN 2'-O" OR LESS FROM THE EDGE OF TRAVELED WAY, THE LANE OPEN TO TRAFFIC SHALL BE TEMPORARILY CLOSED OR SHIFTED DURING WORK ACTIVITIES.

19. IN WORK ZONES WITH NO POSITIVE PROTECTION, A TRUCK MOUNTED ATTENUATOR (TMA) SHALL BE PROVIDED 100' TO 200' IN ADVANCE OF EACH WORK AREA. WHERE MULTIPLE CREWS ARE PRESENT, A TMA SHALL BE PROVIDED AT EACH WORK AREA.

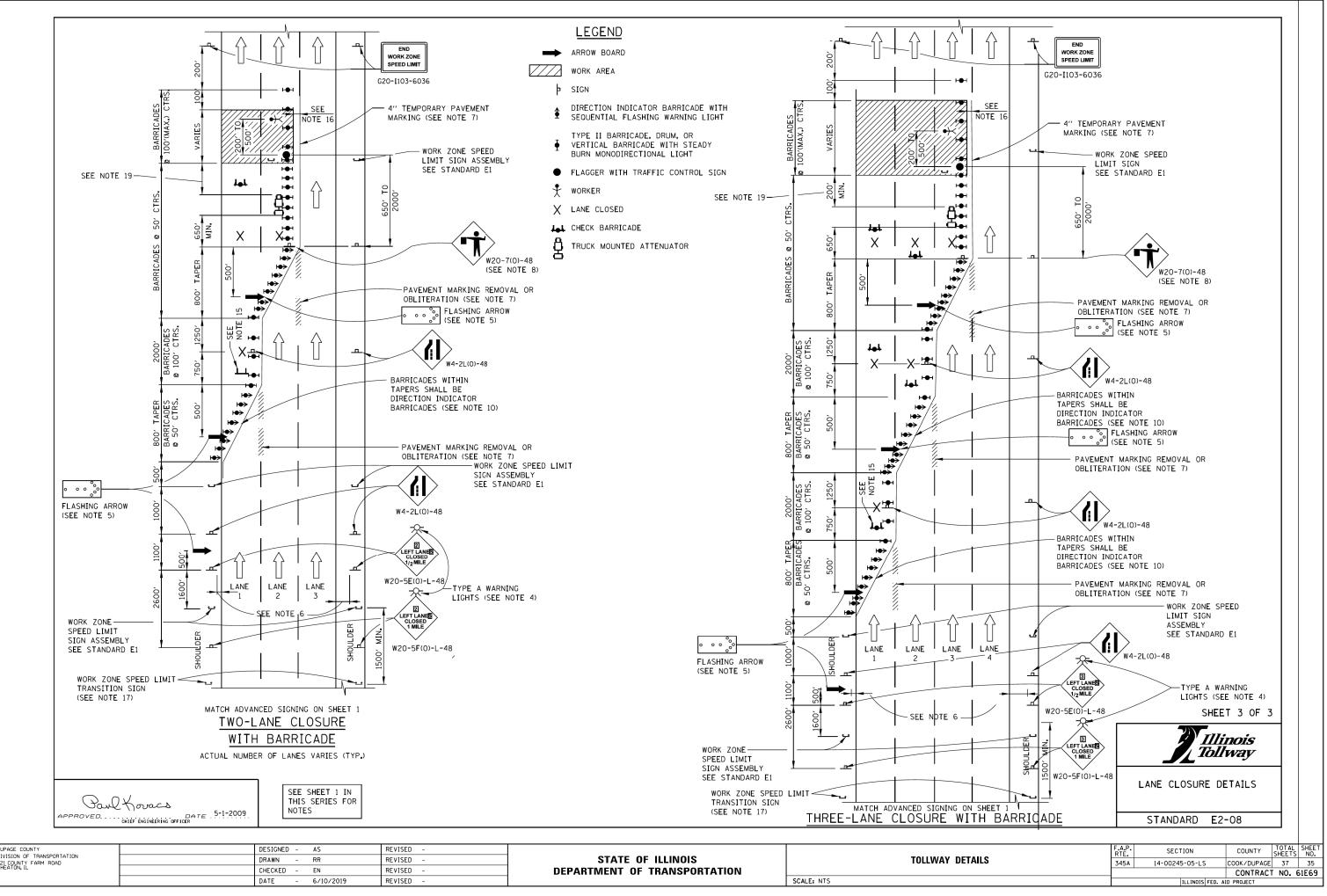
FLAGGER WITH TRAFFIC CONTROL SIGN

TRUCK MOUNTED ATTENUATOR

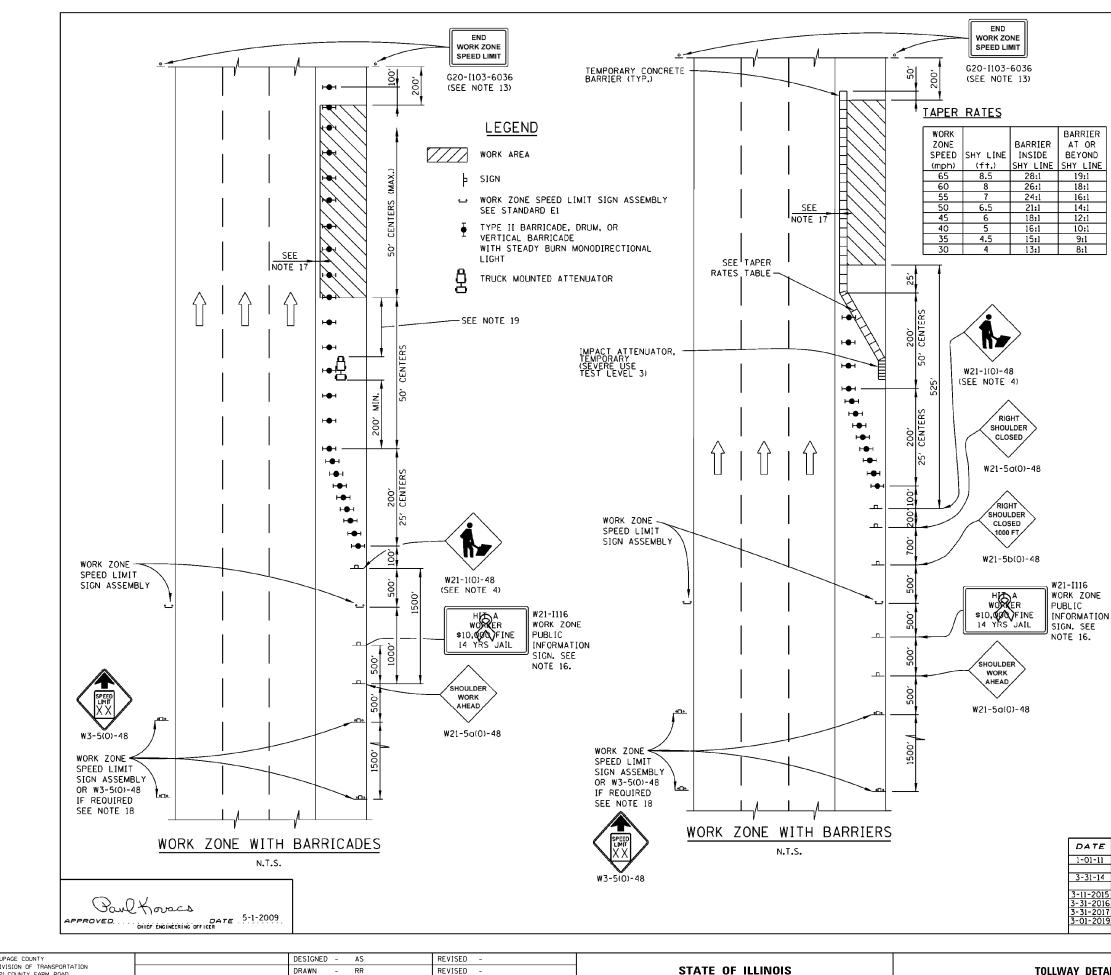
SHEET 2 OF 3

LANE CLOSURE DETAILS

STANDARD E2-08



DUPAGE COUNTY	DESIGNED -	AS	REVISED -		
DIVISION OF TRANSPORTATION 421 COUNTY FARM ROAD WHEATON, IL	DRAWN -	RR	REVISED -	STATE OF ILLINOIS	TOLLWAY I
WHEATON, IL	CHECKED -	EN	REVISED -	DEPARTMENT OF TRANSPORTATION	
	DATE -	6/10/2019	REVISED -		SCALE: NTS



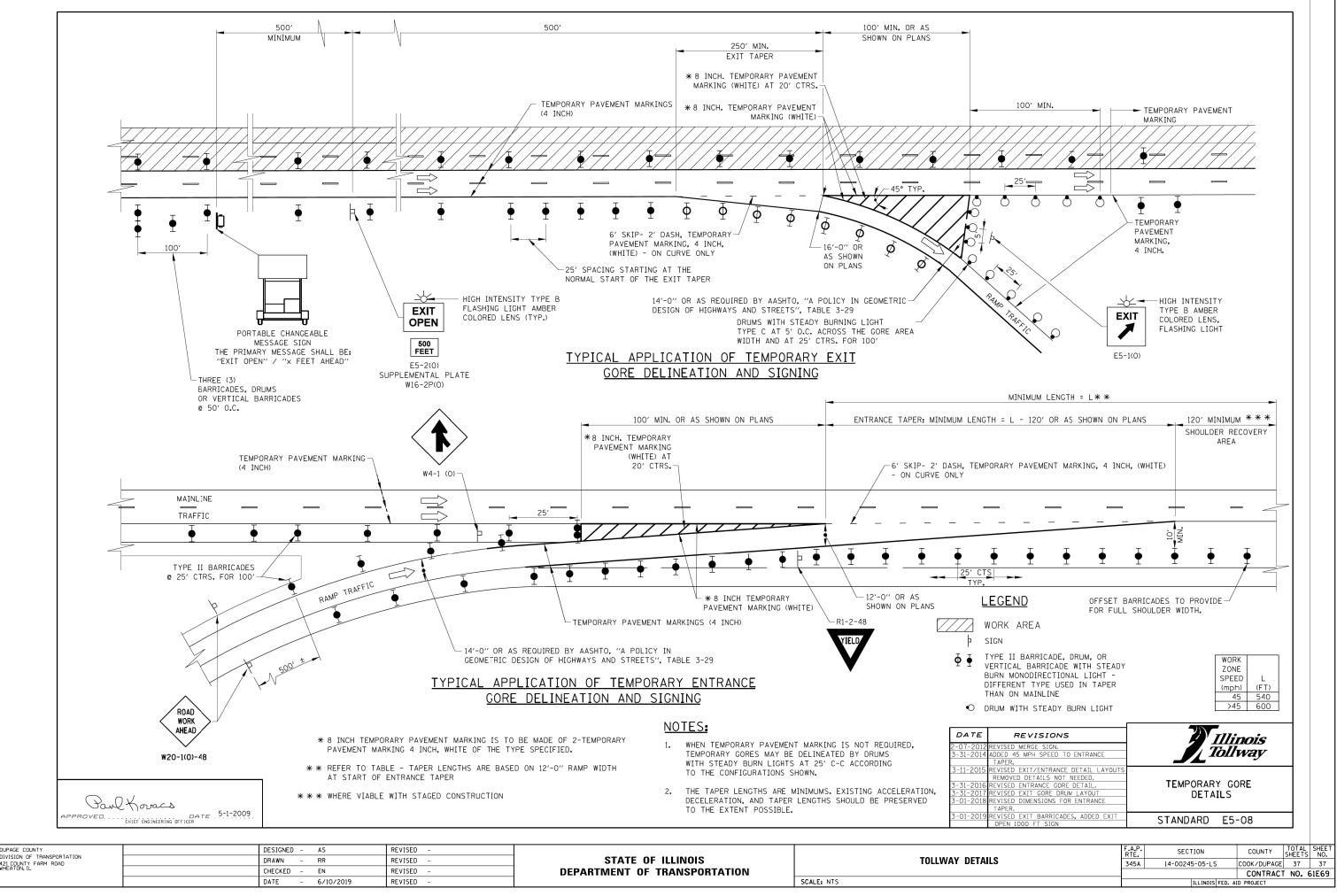
DUPAGE COUNTY	DESIGNED - AS	REVISED -		
DIVISION OF TRANSPORTATION 421 COUNTY FARM ROAD	DRAWN - RR	REVISED -	STATE OF ILLINOIS	TOLLWAY
421 COUNTY FARM ROAD WHEATON, IL	CHECKED - EN	REVISED -	DEPARTMENT OF TRANSPORTATION	
	DATE - 6/10/2019	REVISED -		SCALE: NTS

### GENERAL NOTES:

- 1. THE SHOULDER SHALL BE CLOSED WHEN A WORK ACTIVITY REQUIRING 15 OR MORE MINUTES IS PERFORMED AT A DISTANCE WHICH IS LESS THAN 15 FEET BUT NO CLOSER THAN 2 FEET FROM THE EDGE OF PAVEMENT.
- 2. THE ADJACENT EXTERIOR LANE SHALL BE CLOSED WHEN WORK IS PERFORMED WITHIN 2 FEET FROM THE EDGE OF PAVEMENT.
- 3. THE CHANNELIZING DEVICES WHICH SEPARATE THE WORK SPACE FROM THE ADJACENT TRAVEL LANE SHALL BE SPACED AT 25' FOR (200 FEET) AND AT A MAXIMUM OF 50' FOR ALL ADDITIONAL DEVICES.
- 4. WHEN THE WORKSITE IS UNATTENDED, SUBSTITUTE "SHOULDER WORK AHEAD" SIGN.
- WORKER SIGNS OR SHOULDER WORK SIGNS AND CHANNELIZATION DEVICES ARE PLACED ONLY ON THE SIDE OF THE ROADWAY ON WHICH THE ACTIVITY IS PERFORMED.
- FOR SHOULDER CLOSURE EXTENDING OVERNIGHT, BARRICADE TYPE II WITH STEADY BURNING LIGHT, TYPE C SHALL BE USED.
- 7. FOR SHORT TERM CLOSURE (SUNRISE TO ONE HOUR BEFORE SUNSET) NOT EXTENDING INTO DARKNESS, CONES MAY BE USED.
- 8. ONE WORK ZONE SPEED LIMIT SIGN ASSEMBLY SHALL BE PLACED AT A DISTANCE OF 500' TO 2,500' MAXIMUM IN ADVANCE OF WORKERS THROUGHOUT THE SHOULDER CLOSURE. MOVING OPERATIONS MAY REQUIRE CONTINUOUS ADJUSTMENT OF THE SIGN ASSEMBLY LOCATION TO MAINTAIN THE ABOVE INTERVAL.
- AN ADDITIONAL SIGN ASSEMBLY SHALL BE PLACED 500' BEYOND THE LAST ENTRANCE RAMP FOR EACH INTERCHANGE THAT FALLS WITHIN THE 2,500'.
- 10. THE SIGN ASSEMBLY SHALL BE PLACED NO CLOSER THAN 500' TO ANY OTHER SIGN.
- 11. THE WORK ZONE SPEED LIMIT SIGNS AND SIGN ASSEMBLY SHALL BE PROMPTLY REMOVED OR COVERED WHEN SHOULDER CLOSURE IS REMOVED.
- 12. ALL CONFLICTING SPEED LIMIT SIGNS SHALL BE COVERED OR REMOVED.
- 13. "END WORK ZONE SPEED LIMIT" SIGNS SHALL BE IN PLACE ONLY WHEN THE EXISTING POSTED SPEED > 55MPH.
- 14. FOR SHOULDER REPAIRS OR REPLACEMENT THE CHANNELIZING DEVICES SHALL BE PLACED AT THE EDGE OF PAVEMENT WHENEVER THE WORK ACTIVITIES RESULT IN A DROPOFF AT THE EDGE OF PAVEMENT.
- 15. ANY UNATTENDED OBSTACLE OR EXCAVATION LEFT ON THE SHOULDER OVERNIGHT SHALL BE IN COMPLIANCE WITH THE ROADWAY TRAFFIC CONTROL AND COMMUNICATIONS MANUAL.
  - 16. THE WORK ZONE PUBLIC INFORMATION SIGN IS 60" WIDE BY 48" HIGH. THE CONTRACTOR SHALL OBTAIN THE CAMERA-READY ARTWORK REQUIRED FOR THE SIGN MESSAGE BY CONTACTING IDOT'S CENTRAL BUREAU OF OPERATIONS.
  - 17. A 1'-O'' MINIMUM/2'-O'' DESIRABLE SHY DISTANCE SHALL BE PROVIDED, MEASURED BETWEEN EDGE OF PAVEMENT LANE MARKING TO THE EDGE OF THE TRAFFIC CONTROL DEVICE.
  - 18. SEE STANDARD EI FOR ADDITIONAL SIGNAGE REOUIRED WHEN WORK ZONE SPEED LIMIT IS REDUCED BY MORE THAN 10 MPH.
  - 19. IN WORK ZONES WITH NO POSITIVE PROTECTION, A TRUCK MOUNTED ATTENUATOR (TMA) SHALL BE PROVIDED 100' TO 200' IN ADVANCE OF EACH WORK AREA. WHERE MULTIPLE CREWS ARE PRESENT, A TMA SHALL BE PROVIDED AT EACH WORK AREA.

		l Illinois
E	REVISIONS	Tollway
11	CHANGED SYMBOL DESIGNATION	
	REVISED NOTES	
14	REVISED WORKER SIGN NUMBERS PER	
	"MUTCD" AND REVISED NOTES.	SHOULDER CLOSURE
015	REVISED NOTES	DETAILS
016	ADD WORK ZONE WITH BARRIERS.	DETTIES
017	ADDED TAPER RATE TABLE.	
019	DELETED W21-10, ADJUSTED SIGN SPACING,	STANDARD E3-07
	ADDED TMA, REVISED NOTES	STANDARD EJ-UT

	F.A.P. RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
TAILS	345A	14-00245-05-LS	COOK/DUPAGE	37	36
			CONTRACT	NO. 6	51E69
	ILLINOIS FED. AID PROJECT				



DUPAGE COUNTY	DESIGNED - AS	REVISED -		
DIVISION OF TRANSPORTATION 421 COUNTY FARM ROAD	DRAWN - RR	REVISED -	STATE OF ILLINOIS	TOLLWAY D
421 COUNTY FARM ROAD WHEATON, IL	CHECKED - EN	REVISED -	DEPARTMENT OF TRANSPORTATION	
	DATE - 6/10/2019	REVISED -		SCALE: NTS