

TO STA.

ILLINOIS FED. AID PROJECT

TRAFFIC SIGNAL EQUIPMENT OFFSET

TRAFFIC SIGNAL EQUIPMENT	COMBINATION CONCRETE CURB AND GUTTER (MINIMUM DISTANCE FROM BACK OF CURB TO CENTERLINE OF FOUNDATION)	
TRAFFIC SIGNAL MAST ARM POLE	6 FT (1.8m)	SHOUL
TRAFFIC SIGNAL POST	4 FT (1_2m)	SHOUL
PEDESTRIAN SIGNAL POST	4 FT (1.2m)	SHOUL
PEDESTRIAN PUSHBUTTON POST	4 FT (1.2m)	SHOUL
TEMPORARY WOOD POLE	6 FT (1.8m)	SHOUL
CONTROLLER CABINET	6 FT (1.8m) MINIMUM DISTANCE SEE NOTE 2	SHOUL
SERVICE INSTALLATION, GROUND MOUNT	6 FT (1.8m) MINIMUM DISTANCE SEE NOTE 2	SHOUL

1. CONTACT THE "AREA TRAFFIC SIGNAL MAINTENANCE AND OPERATIONS ENGINEER" FOR ASSISTANCE IN LOCATING THE TRAFFIC SIGNAL ECUIPMENT WHEN THERE ARE CONFLICTS WITH DITCHES OR THE MINIMUM OFFSET DISTANCES CANNOT BE MET.

2. MINIMUM DISTANCE FROM THE BACK OF CURB TO THE ROADWAY SIDE OF THE FOUNDATION.

SEE TABLE I

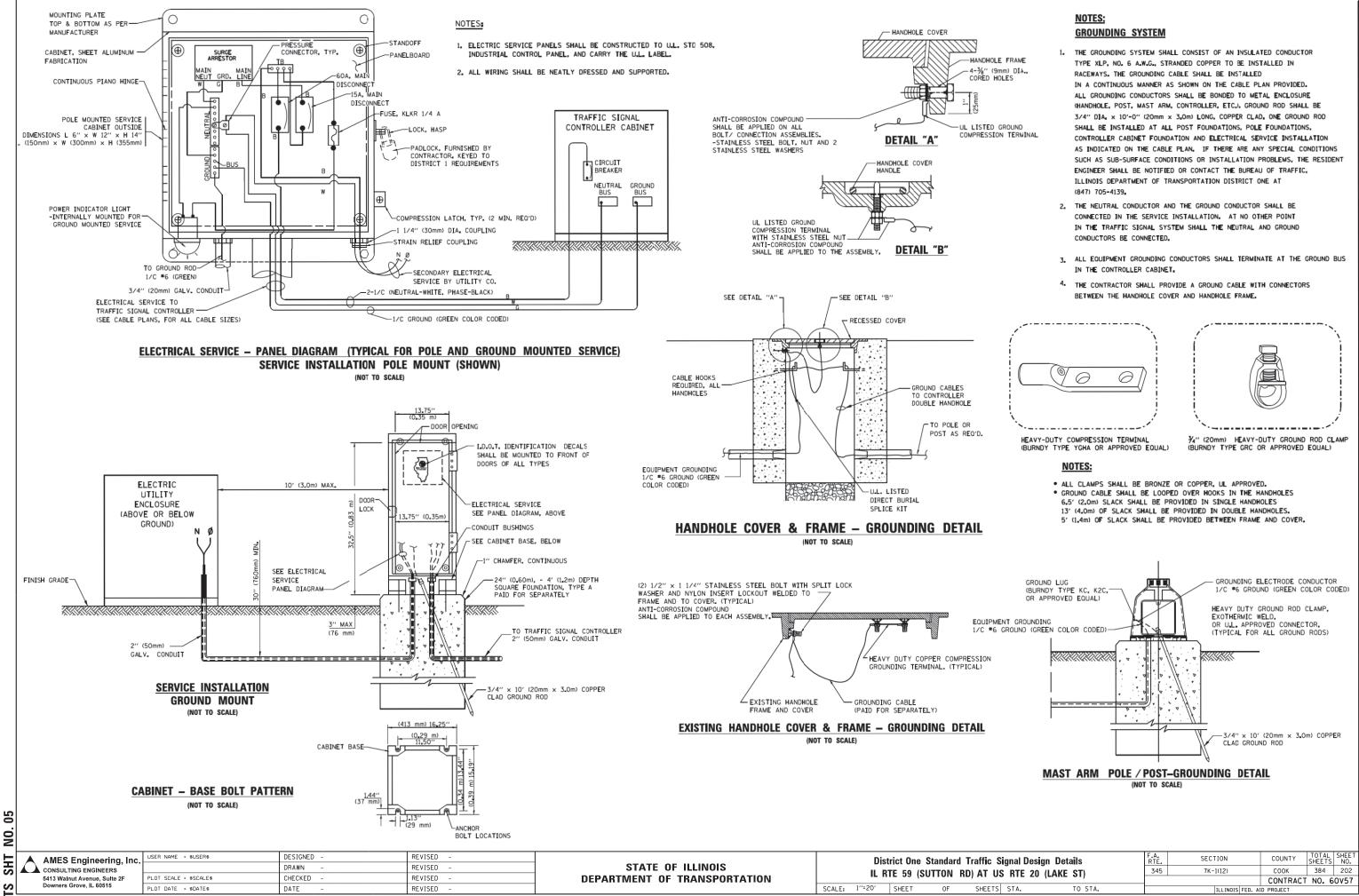
SEE NOTE I

3. MINIMUM DISTANCE FROM THE EDGE OF PAVEMENT TOTHE ROADWAY SIDE OF THE FOUNDATION.

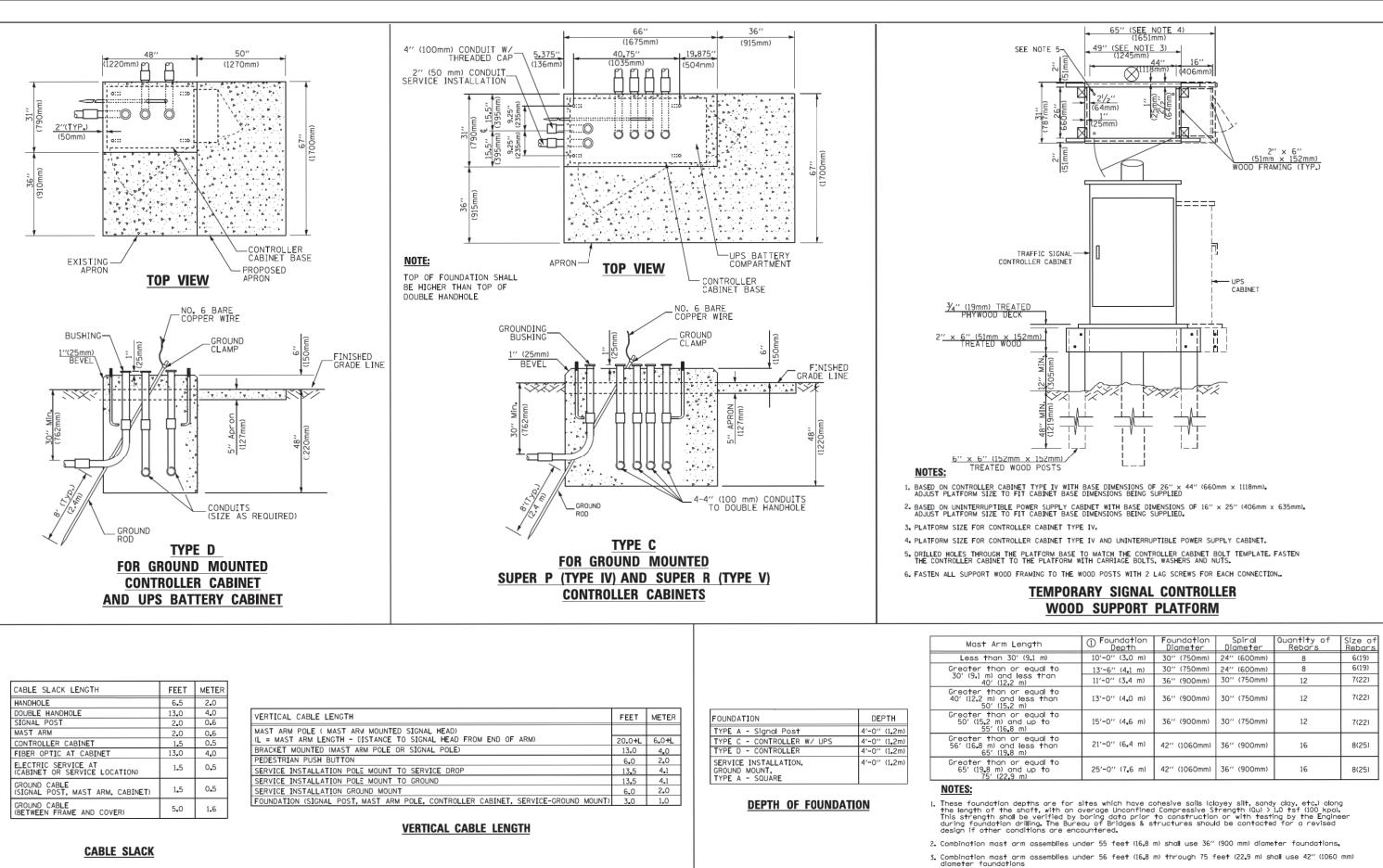
4. ANY CHANGES TO THE OFFSETS OF THE FOUNDATIONS, FROM THE MINIMUM DISTANCES LISTED IN THE "TRAFFIC SIGNAL EQUIPMENT OFFSET" CHART AND THE TRAFFIC SIGNAL INSTALLATION PLAN, COULD EFFECT THE PLACEMENT OF THE SIGNAL HEADS, PEDESTRIAN SIGNAL HEADS AND THE PEDESTRIAN PUSHBUTTONS. THE SIGNAL HEAD PLACEMENT ON THE MAST ARMS SHALL REMAIN AS PER THE TRAFFIC SIGNAL INSTALLATION PLAN AND THE "TRAFFIC SIGNAL MAST ARM AND SIGNAL POST" DETAIL ABOVE. THE PROPOSED MAST ARM LENGTHS MAY NEED TO BE REVISED TO MEET THE ABOVE REQUIREMENTS. THE PEDESTRIAN SIGNAL HEADS AND PEDESTRIAN PUSHBUTTONS MUST MEET THE REQUIREMENTS UNDER THE DETAILS ON THIS SHEET.

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E	AMES Engineering, Inc.	USER NAME = \$USER\$	DESIGNED -	REVISED -			Diet	rict One S	¹ brehnet	Traffic S	Signal De
E	CONSULTING ENGINEERS 5413 Walnut Avenue, Sulte 2F		DRAWN -	REVISED -	STATE OF ILLINOIS				•		
		PLOT SCALE = \$SCALE\$	CHECKED -	REVISED -	DEPARTMENT OF TRANSPORTATION		IL K	FE 59 (SU	TION RL	J) AT U;	S RIE 2
S	Downers Grove, IL 60515	PLOT DATE = \$DATE\$	DATE -	REVISED -		SCALE:	1''=20'	SHEET	OF	SHEETS	STA.
-	FILE NAME: \$FILE\$										



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US RTE 20 (LAKE ST)				7K-1(12)	СООК	384	202
						CONTRACT	NO.	60V57
S	STA.	TO STA.		ILLI	NOIS FED. AI	D PROJECT		



F	AMES Engineering, Inc.	USER NAME = \$USER\$	DESIGNED -	REVISED -		Dist	trict One S	handard	Traffic S	ianal Desian	Details	F.A.	SECTION	COUNTY	TOTAL SHEET	
핑	CONSULTING ENGINEERS		DRAWN -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	STATE OF ILLINOIS District One Standard Traffic Signal Design Details IL RTE 59 (SUTTON RD) AT US RTE 20 (LAKE ST)					345	7K-1(12)	СООК	384 203	1	
	5413 Walnut Avenue, Sulte 2F	PLOT SCALE = \$SCALE\$	CHECKED -	REVISED -								CONTRAC	T NO. 60V57	1		
<u>୍</u>	Downers Grove, IL 60515	PLOT DATE = \$DATE\$	DATE -	REVISED -		SCALE: 1''=20'	SHEET	OF	SHEETS	STA.	TO STA.		ILLINOIS FED. AI	PROJECT		
	ILE NAME: \$FILE\$															

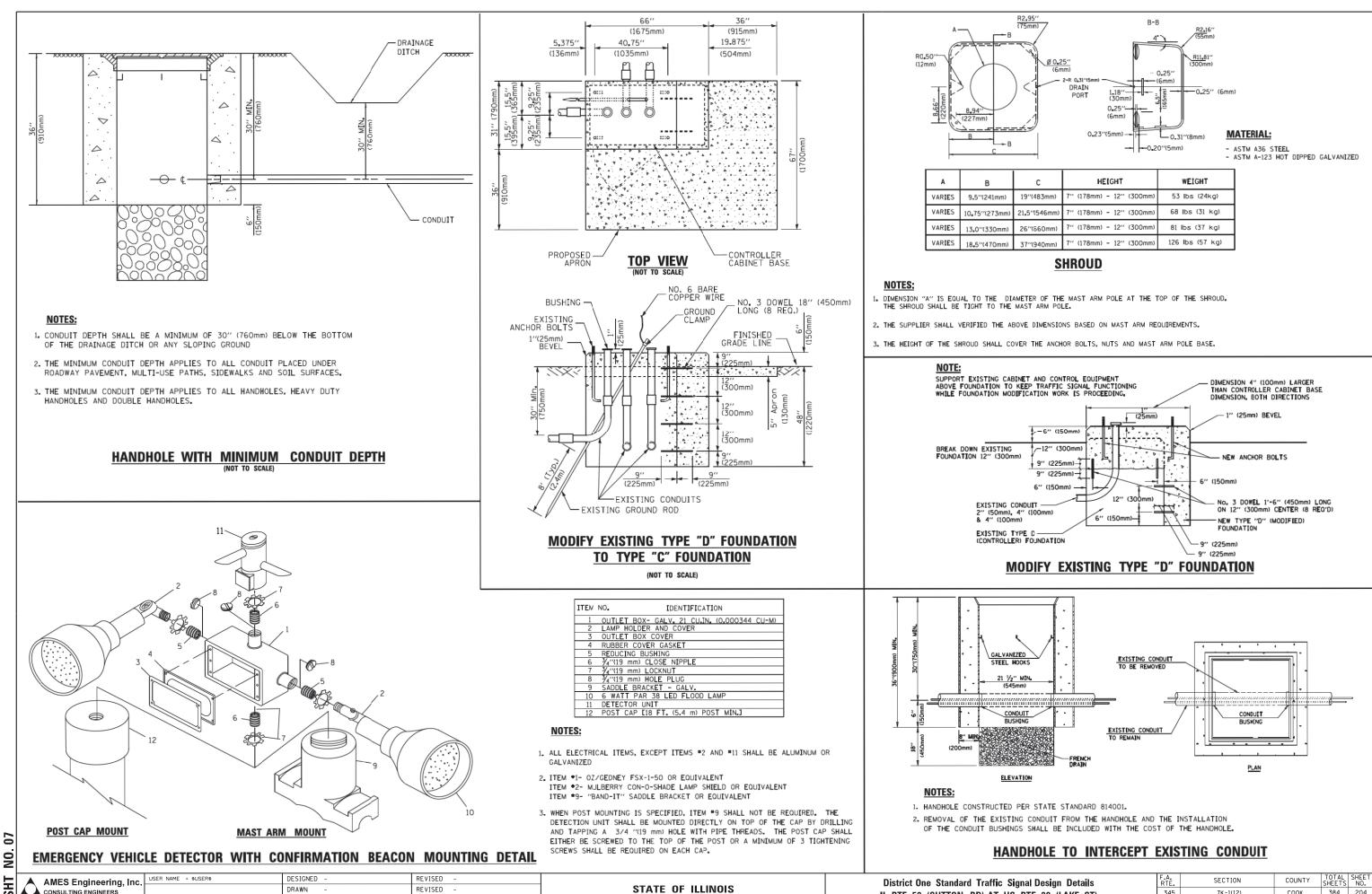
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.ength	① Foundation Depth	Foundation Diameter	Spiral Diameter	Quantity of Rebars	Size of Rebars
)′ (9_1 m)	10'-0" (3.0 m)	30" (750mm)	24'' (600mm)	8	6(19)
r equal to	13'-6" (4.1 m)	30" (750mm)	24'' (600mm)	8	6(19)
less than m)	11'-0" (3.4 m)	36" (900mm)	30'' (750mm)	12	7(22)
r equal to less than m)	13'-0'' (4 . 0 m)	36" (900mm)	30" (750mm)	12	7(22)
r equal to nd up to m)	15'-0'' (4 . 6 m)	36'' (900mm)	30'' (750mm)	12	7(22)
r equal to less than m)	21'-0'' (6 . 4 m)	42'' (1060mm)	36'' (900mm)	16	8(25)
r equal to nd up to m)	25'-0'' (7 _∎ 6 m)	42'' (1060mm)	36'' (900mm)	16	8(25)

4. For mast arm assemblies with dual arms refer to state standard 878001...

DEPTH OF MAST ARM FOUNDATIONS, TYPE E



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LOT SCALE = \$SCALE\$ 5413 Walnut Avenue, Sulte 2F Downers Grove, IL 60515 PLOT DATE = \$DATE\$ FILE NAME: \$FILE\$

CHECKED

DATE

REVISED

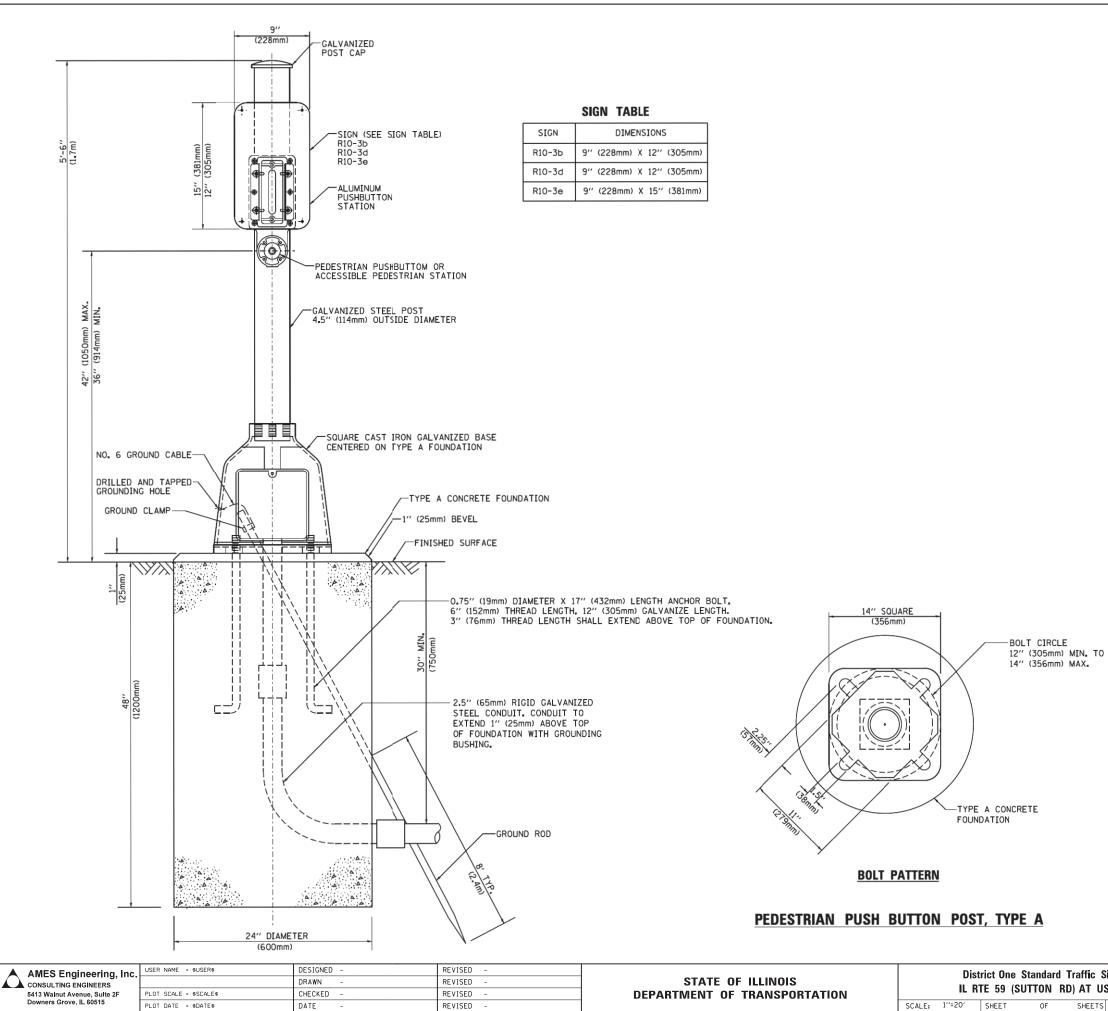
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STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION** SCALE: 1"=20' SHEET

IL RTE 59 (SUTTON RD) AT U 0F SHEET

	С	HEIGHT	WEIGHT
	19''(483mm)	7" (178mm) - 12" (300mm)	53 lbs (24kg)
n)	21.5"(546mm)	7" (178mm) - 12" (300mm)	68 lbs (31 kg)
)	26"(660mm)	7" (178mm) - 12" (300mm)	81 lbs (37 kg)
)	37''(940mm)	7" (178mm) - 12" (300mm)	126 lbs (57 kg)

Signal Design Details US RTE 20 (LAKE ST)		F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.				
		345	384	204						
	/ 1112 20	CEARE OT	_		CONTRACT	NO. 6	0V57			
٢S	STA.	TO STA.	ILLINOIS FED. AID PROJECT							

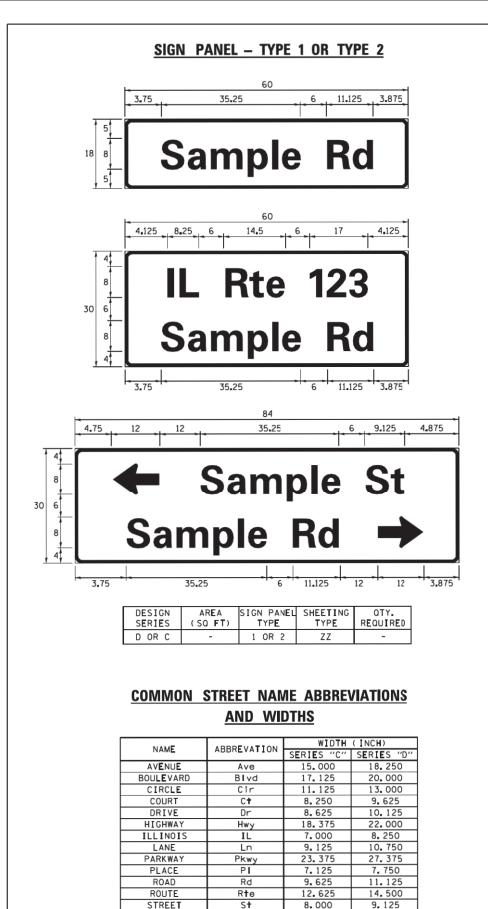


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Signal Design Details			F.A. RTÉ.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.				
US RTE 20 (LAKE ST)		345	7K-1(12)	СООК	384	205					
03 HTL 20 (LARL 31)					CONTRACT	NO. 6	0V57				
TS	STA.	TO STA.		ILLINOIS FED. AID PROJECT							



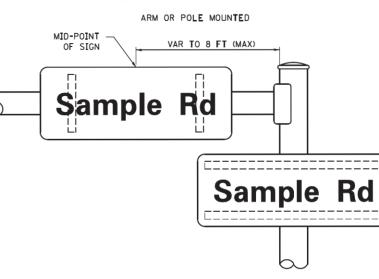
GENERAL NOTES

- 1. WHERE MAST ARM MOUNTED STREET NAME SIGNS ARE SPECIFIED, THE MAST ARM ASSEMBLY AND POLES SHALL BE DESIGNED TO SUPPORT THE LOADINGS CALLED FOR ON STANDARDS 877001, 877002, 877006, 877011 AND 877012, AS APPLICABLE, PLUS TWO (2) SIGN PANELS 2'-6" × 8'-C" MOUNTED AS SHOWN. THE DESIGN SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF THE CURRENT "STANDARD SPECIFICATIONS FOR STRUCTURAL SUPPORTS FOR HIGHWAY SIGNS, LUMINAIRES, AND TRAFFIC SIGNALS" AS PUBLISHED BY THE AMERICAN ASSOCIATION OF STATE HIGHWAY AND TRANSPORTATION OFFICIALS FOR 80 M.P.H. WIND VELOCITY.
- 2. ALL SIGNS SHALL CONSIST OF A WHITE LEGEND AND BORDER (TYPE ZZ SHEETING) ON A GREEN BACKGROUND (TYPE ZZ SHEETING)
- 3. THE SIGN LENGTH SHALL BE IN 6-INCH INCREMENTS, BUT THE OVERALL LENGTH SHALL NOT EXCEED 8'-O". ALL BORDERS SHALL BE 3/4" WIDE. CORNER RADIUS SHALL BE 1-7/8". THE SPACING BETWEEN THE WORDS SHOULD BE 6", IF POSSIBLE, BUT MAY BE REDUCED TO 5" WHEN SPACING IS CRITICAL. A MINIMUM OF 2-1/2" SHALL BE INCLUDED BETWEEN THE WORD AND THE RIGHT AND LEFT EDGES OF THE SIGN.
- 4. A PREFERRED METHOD FOR THE SIGN DESIGN IS TO USE SERIES "D" LETTER ON A ONE-LINE SIGN 18" IN HEIGHT AND A MAXIMUX OF 8'-O" IN WIDTH. IF SERIES "D" DOES NOT FIT ON A 8"-O" SIGN, THEN SERIES "C" SHOULD BE TRIED. IF SERIES "C" DOES NOT FIT ON A 8'-O" SIGN, A 30" HIGH TWO-LINE SIGN CAN BE USED. THE CROSSROAD DESIGNATION AS TO STREET, AVENUE, ETC. SHOULD BE SPELLED OUT ON THE SECOND LINE, IF THERE IS SPACE AVAILABLE.
- 5. LED ILLUMINATED STREET NAME SIGNS CAN BE USED IN PLACE OF REGULAR SIGN PANELS BUT ANY SPECIAL WORDING AND SYMBOLOGY MUST BE APPROVED BY THE DEPARTMENT. GENERAL DESIGN REQUIREMENT AS LISTED ABOVE (COLOR, FONT, SIZE, ETC.) MUST BE FOLLOWED.
- 6. SIGNFIX ALUMINUM CHANNEL FRAMING SYSTEM SHALL BE USED FOR ALL SIGNS ATTACHED TO SIGNAL POLES AND POSTS.

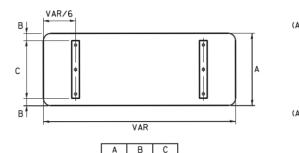
LOCAL SUPPLIERS:	PARTS LISTING:	
 J.O. HERBERT COMPANY, INC MIDLOTHIAN, VA 	SIGN CHANN EL SIGN SCR E WS	PART "HPN053 (MED. CHANNEL) 1/4" × 14 × 1" H.W.H. "3
- WESTERN REMAC, INC. WOODRIDGE, IL	BRACKETS	SELF TAPPING WITH NEOPRENE WASHER PART #HPNO34 (UNIVERSAL) CHANNEL CLAMPS WITH STAINLESS STEEL STRAPPING

OTHER BRANDS OF MOUNTING HARDWARE ARE ACCEPTABLE, BASED UPON THE DEPARTMENT'S APPROVAL AND COMPATIBILITY WITH THE CHANNEL/BRACKET OF THE ABOVE PRODUCT.

MOUNTING LOCATION

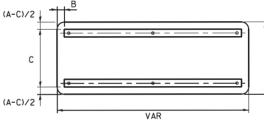


SUPPORTING CHANNELS



18" 2" 14"

30" 2" 24"



Α	В	С
18"	2″	12"
30"	2″	22"

	STATE OF ILLINOIS	District One Mast Arm Mounted Street Signs							F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		IL RTE 59 (SUTTON RD) AT US RTE 20 (LAKE ST)						345	7K-1(12)	СООК	384	206	
	DEPARTMENT OF TRANSPORTATION	SCALE: 1"=20		•	05	SHEETS		(CONTRACT	NO. 6	0V57
		SCALE: 1"=20	U S	SHEET	٥F	SHEETS	STA.	IU SIA.		ILLINOIS FED. AI	ID PROJECT		

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\land		USER NAME = \$USER\$	DESIGNED - DRAWN -	REVISED – REVISED –	STATE OF ILLINOIS			Di	
6		PLOT SCALE = \$SCALE\$	CHECKED -	REVISED -	DEPARTMENT OF TRANSPORTATION			IL RTI	
		PLOT DATE = \$DATE\$	DATE -	REVISED -		SCALE:	1''=20'	Τ	
FILE NA	ME: \$FILE\$							_	

14.625

9.125

12.250

12.625

7.750

10.375

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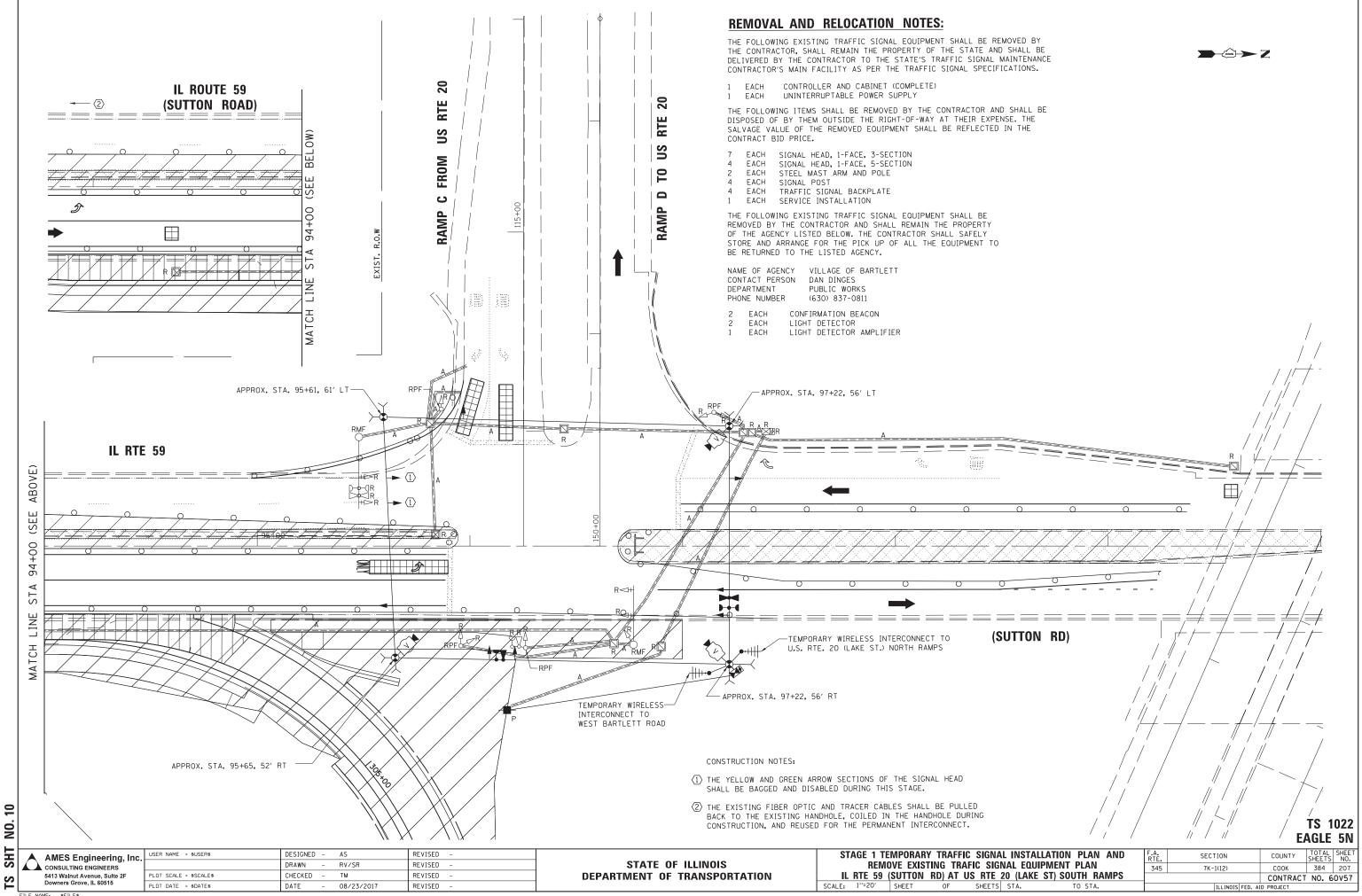
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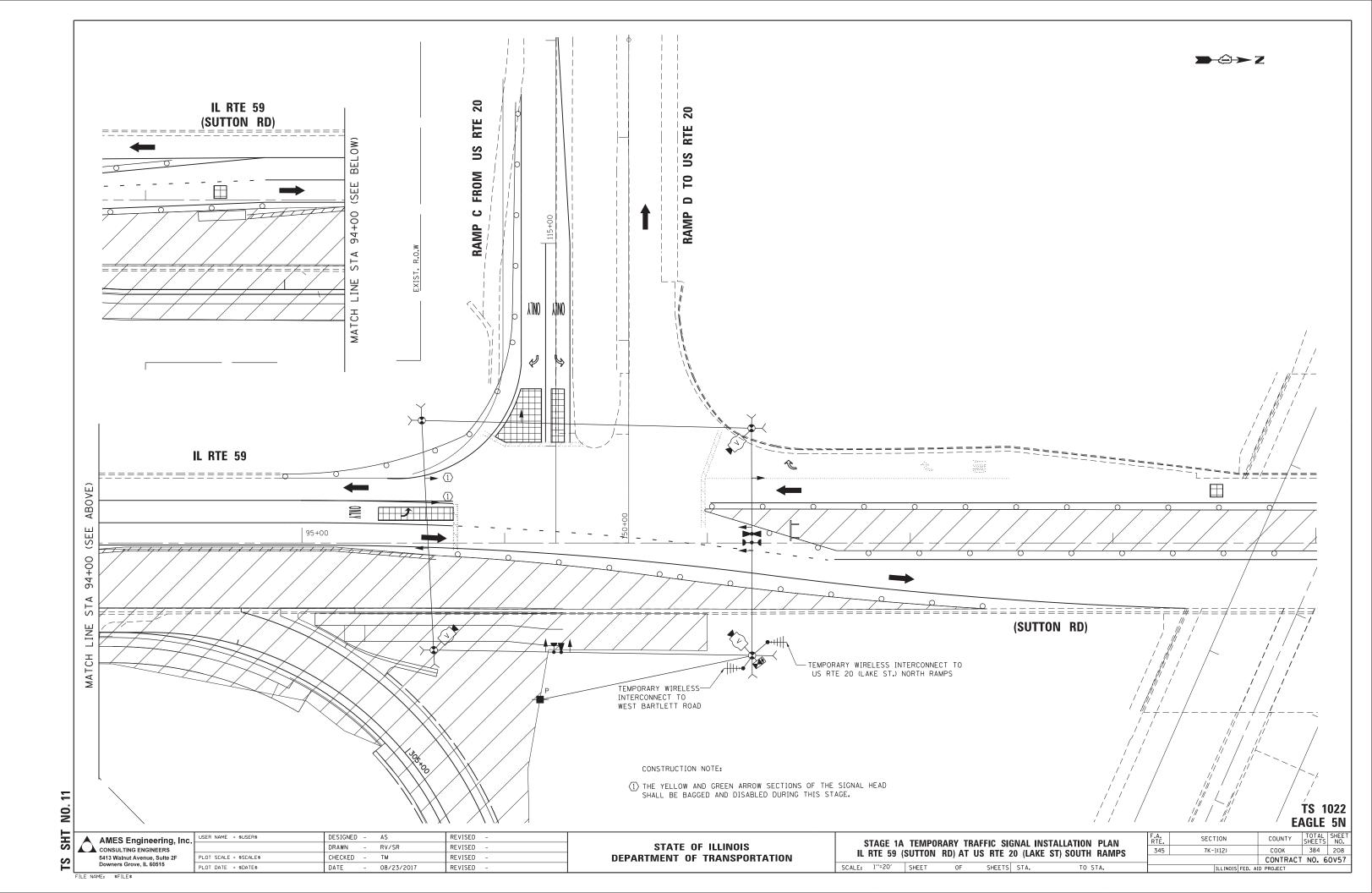
US

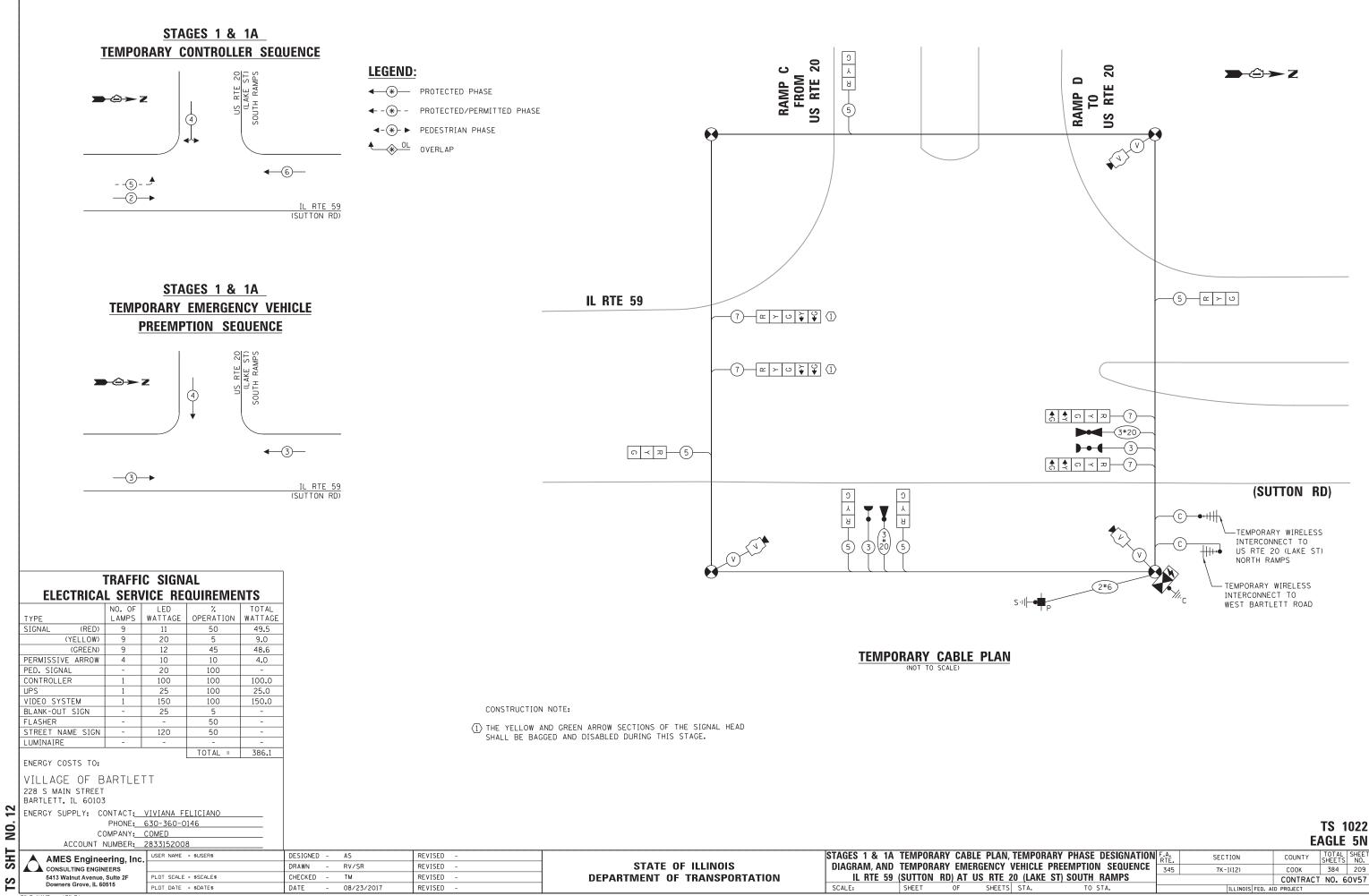
STANDARD ALPHABETS SPACING CHART

(8") UPPER CASE AND (6") LOWER CASE

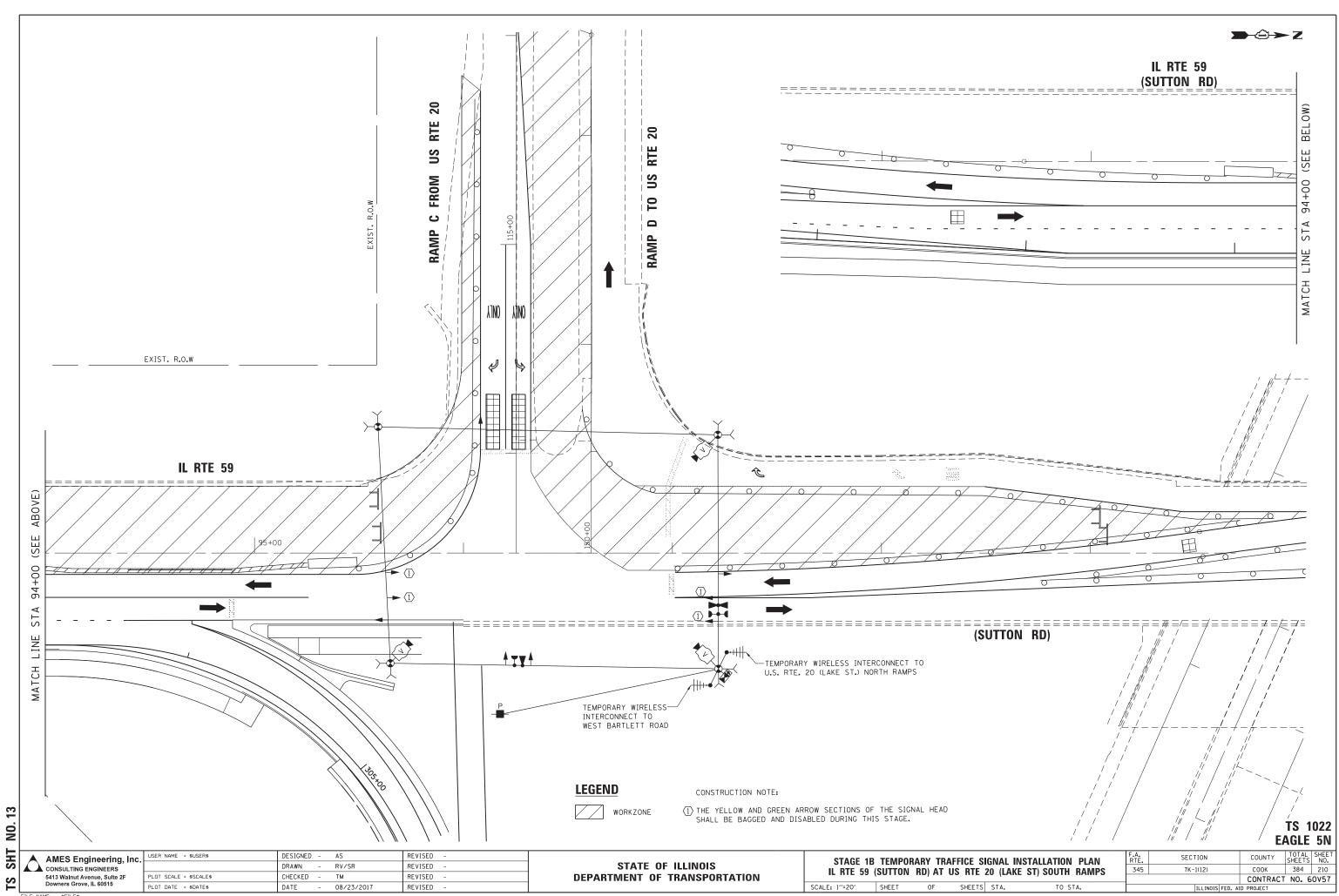
	FHWA SEF	RIES "C"		FHWA SERIES "D"					
HARACTER	LEFT SPACING (INCH)	WIDTH (INCH)	RIGHT SPACING (INCH)	CHARACTER	LEFT SPACING (INCH)	WIDTH (INCH)	RIGHT SPACING (INCH)		
Α	0.240	5.122	0.240	A	0.240	6.804	0.240		
B	0.880	4.482	0.480	B	0.960	5.446	0.400		
C D	0.720 0.880	4.482	0.720	C D	0.800	5.446 5.446	0.800		
E	0.880	4.082	0. 480	E	0.960	4.962	0.400		
F	0.880	4.082	0.240	F	0,960	4.962	0.240		
G	0.720	4.482	0.720	G	0.800	5.446	0.800		
Н	0.880	4.482	0.880	Н	0.960	5.446	0.960		
I	0.880	1.120	0.880	I	0.960	1.280	0.960		
J	0.240	4.082	0.880	J	0.240	5.122	0.960		
к	0.880	4.482	0.480	К	0.960	5.604	0.400		
L M	0.880 0.880	4.082 5.284	0.240	L	0.960 0.960	4.962 6.244	0.240		
N	0.880	4.482	0.880	N	0,960	5. 446	0.960		
0	0, 720	4.722	0.720	0	0.800	5.684	0.800		
Р	0.880	4.482	0.720	Р	0,960	5 . 446	0.240		
Q	0, 720	4.722	0.720	Q	0.800	5.684	0.800		
R	0.880	4.482	0.480	R	0.960	5.446	0.400		
S T	0.480 0.240	4.482	0.480	S T	0. 400	5.446 4.962	0.400		
U	0_240	4.082	0.240	U	0.240	4.962 5.446	0.240		
v	0.240	4.962	0.240	v	0.240	6.084	0.240		
W	0.240	6.084	0.240	W	0.240	7.124	0.240		
Х	0.240	4.722	0.240	Х	0.400	5.446	0.400		
Y	0.240	5.122	0.240	Y	0.240	6.884	0.240		
Z	0.480	4.482	0.480	Z	0.400	5.446	0.400		
0	0.320	3.842	0.640		0.400	4.562	0.720		
b c	0.720 0.480	4.082	0.480	b c	0.800 0.480	4.802 4.722	0.240		
d	0, 480	4.082	0.720	d	0.480	4.802	0.800		
e	0.480	4.082	0.320	e	0.480	4.722	0.320		
f	0. 320	2.480	0.160	f	0.320	2.882	0.160		
g	0.480	4.082	0.720	g	0.480	4.802	0.800		
h ·	0.720	4.082	0.640	h	0.800	4.722	0.720		
i	0.720 0.000	1.120 2.320	0.720	ī ī	0.800	1.280	0.800		
j k	0.000	4.322	0.160	k j	0.800	5. 122	0.160		
I	0.720	1.120	0.720	1	0.800	1.280	0.800		
m	0, 720	6.724	0.640	m	0.800	7.926	0.720		
n	0. 720	4.082	0.640	n	0.800	4.722	0.720		
0	0.480	4.082	0.480	0	0.480	4.882	0.480		
P	0. 720	4.082	0.480	P	0.800	4.802	0.480		
q r	0.480 0.720	4.082	0.720	q r	0.480 0.800	4.802 3.042	0.800		
s	0. 720	3. 362	0. 240	s	0. 320	3.762	0.240		
t	0.080	2.882	0.080	+	0.080	3.202	0.080		
U	0.640	4.082	0.720	U	0.720	4.722	0.800		
v	0.160	4.722	0.160	v	0.160	5.684	0.160		
w	0.160	7.524	0.160	w	0.160	9.046	0.160		
×	0.000	5.202	0.000	×	0.000	6.244	0.000		
<u>у</u> 7	0.160	4.962 3.362	0.160	y z	0.160	6.004 4.002	0.160		
z 1	0. 240	1.680	0.240	1	0.240	2.000	0.960		
2	0.480	4.482	0.480	2	0.800	5.446	0.800		
3	0.480	4.482	0.480	3	1.440	5.446	0.800		
4	0.240	4.962	0.720	4	0.160	6.004	0.960		
5	0.480	4.482	0.480	5	0.800	5.446	0.800		
6	0.720	4.482	0.720	6	0.800	5.446	0.800		
7 8	0.240 0.480	4.482	0.720	7 8	0.560 0.800	5.446 5.446	0.560		
9	0.480	4.482	0.480	9	0.800	5.446	0.800		
0	0. 720	4.722	0.720	0	0.800	5.684	0.800		
-	0.240	2.802	0.240	-	0.240	2.802	0.240		

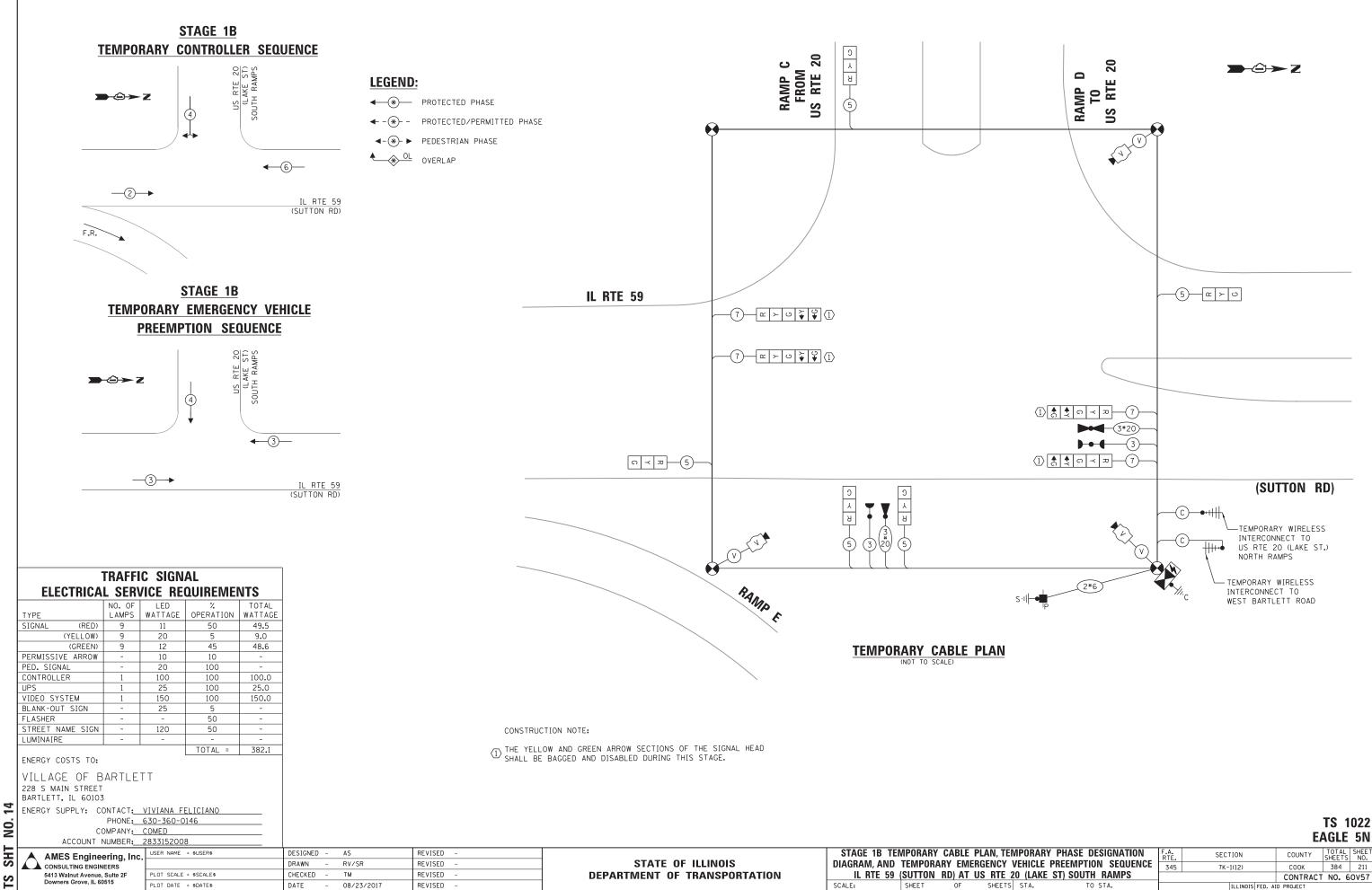






N, TEMPORARY PHASE DESIGNATION	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
VEHICLE PREEMPTION SEQUENCE	345	7K-1(12)	СООК	384	209	
20 (LAKE ST) SOUTH RAMPS			CONTRACT	NO. 6	0V57	
TS STA. TO STA.	ILLINOIS FED. AID PROJECT					

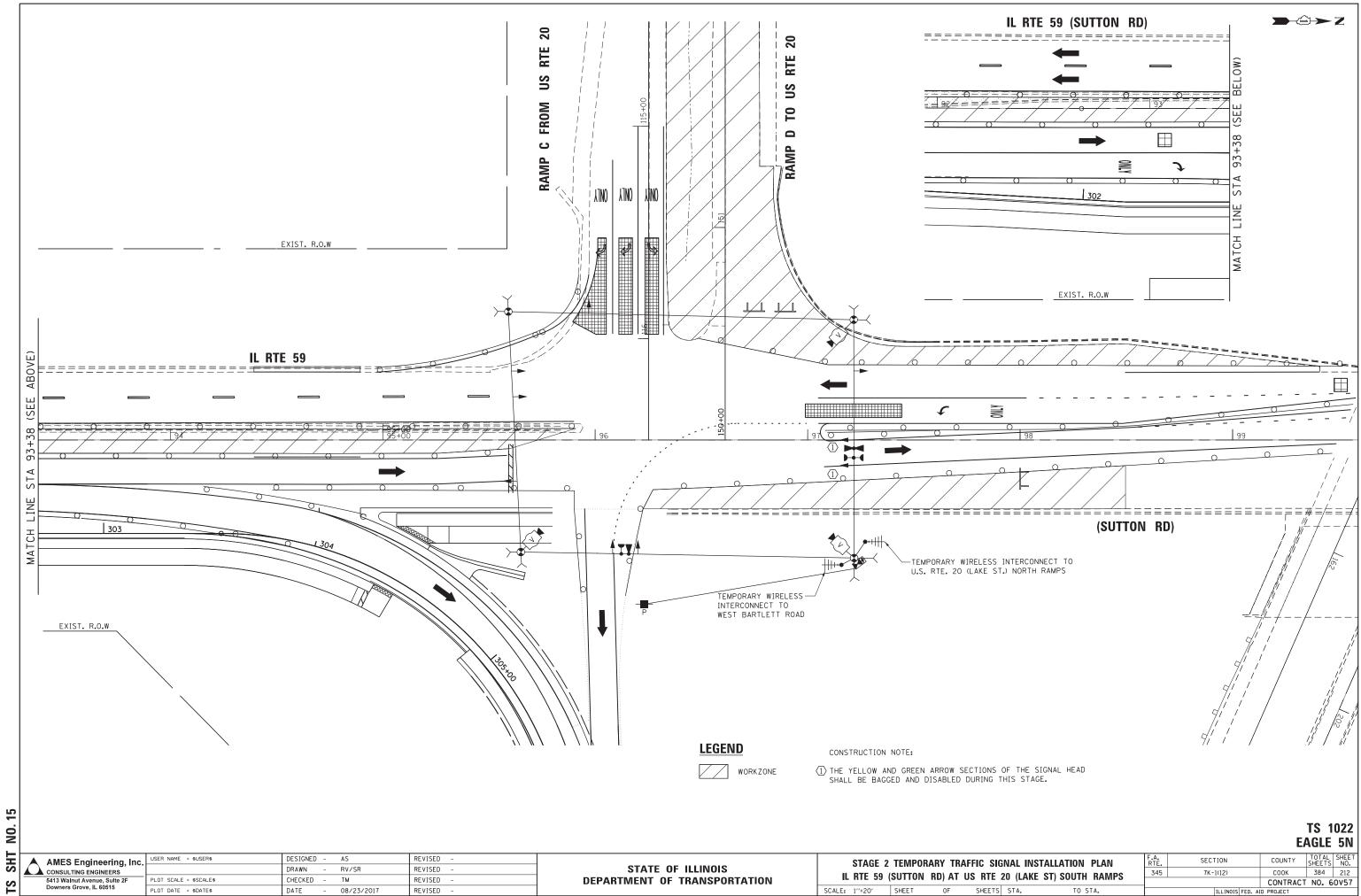




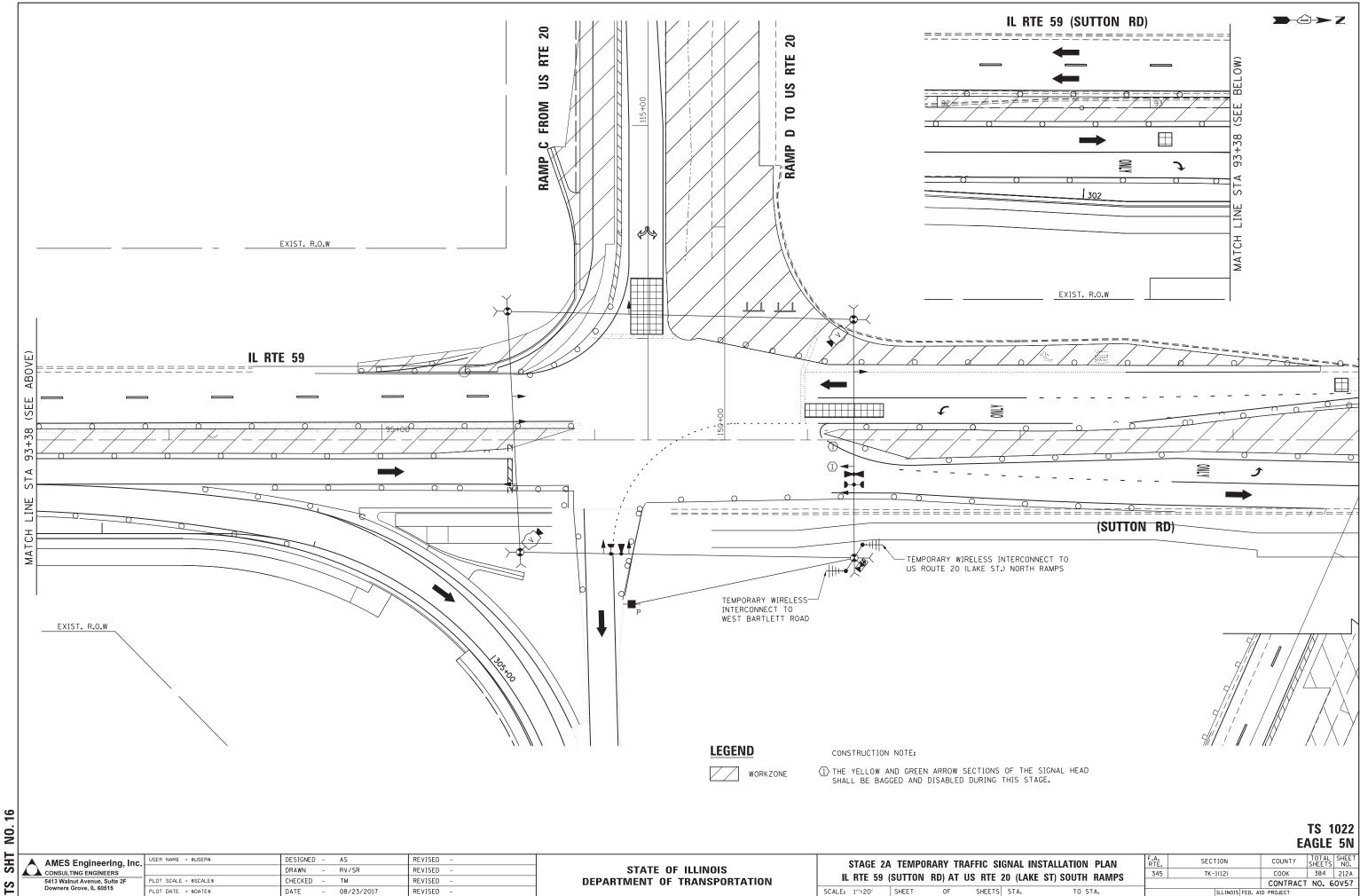
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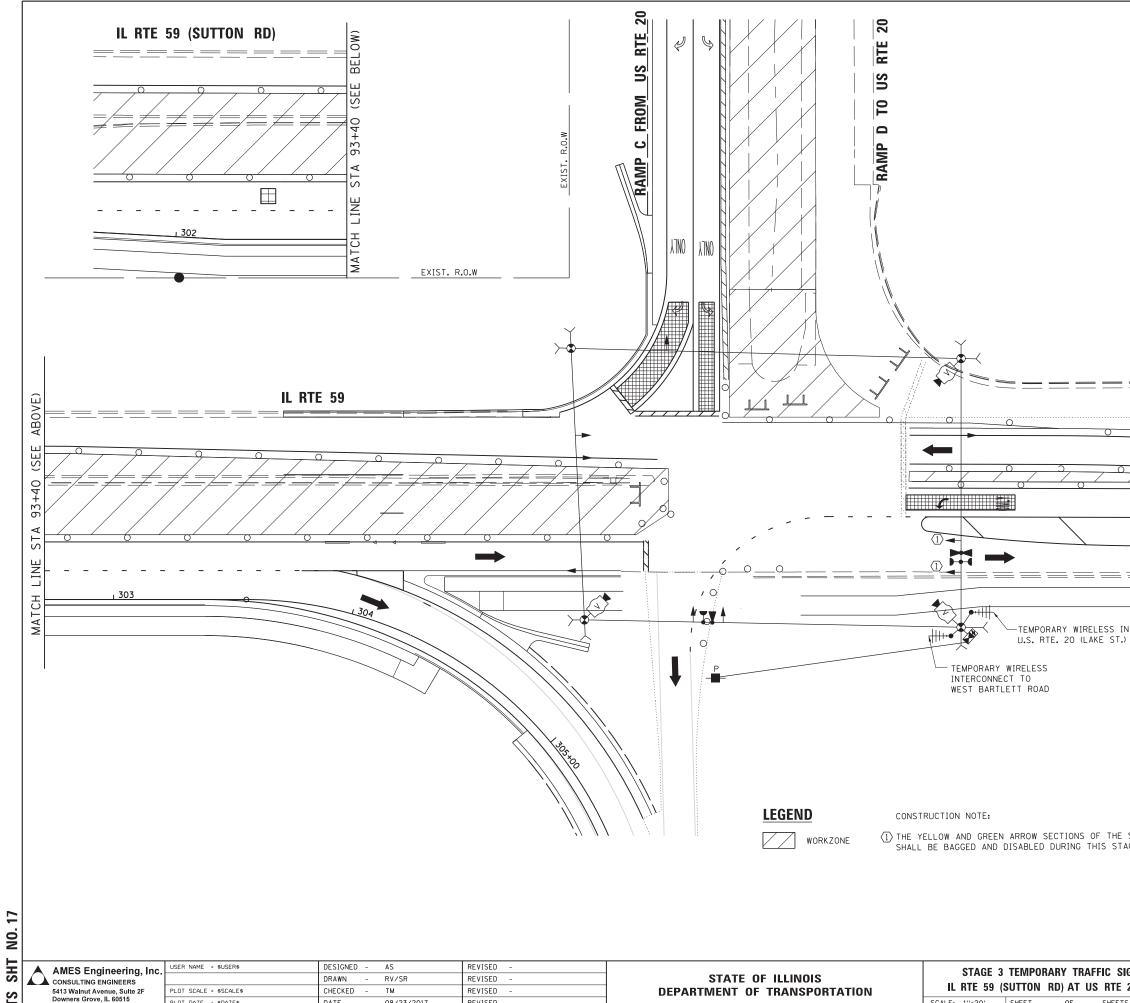
		THAT DEGIGNATION	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		PREEMPTION SEQUENCE	345	7K-1(12)	СООК	384	211
2	O (LAKE	ST) SOUTH RAMPS			CONTRACT	NO. 6	0V57
TS	STA.	TO STA.		ILLINOIS FED. AI	D PROJECT		



IGNAL INSTALLATION PLAN	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
20 (LAKE ST) SOUTH RAMPS	345	7K-1(12)	СООК	384	212
20 (LARE 31) 300111 NAMI 3			CONTRACT	NO. 6	0V57
TS STA. TO STA.		ILLINOIS FED. A	D PROJECT		



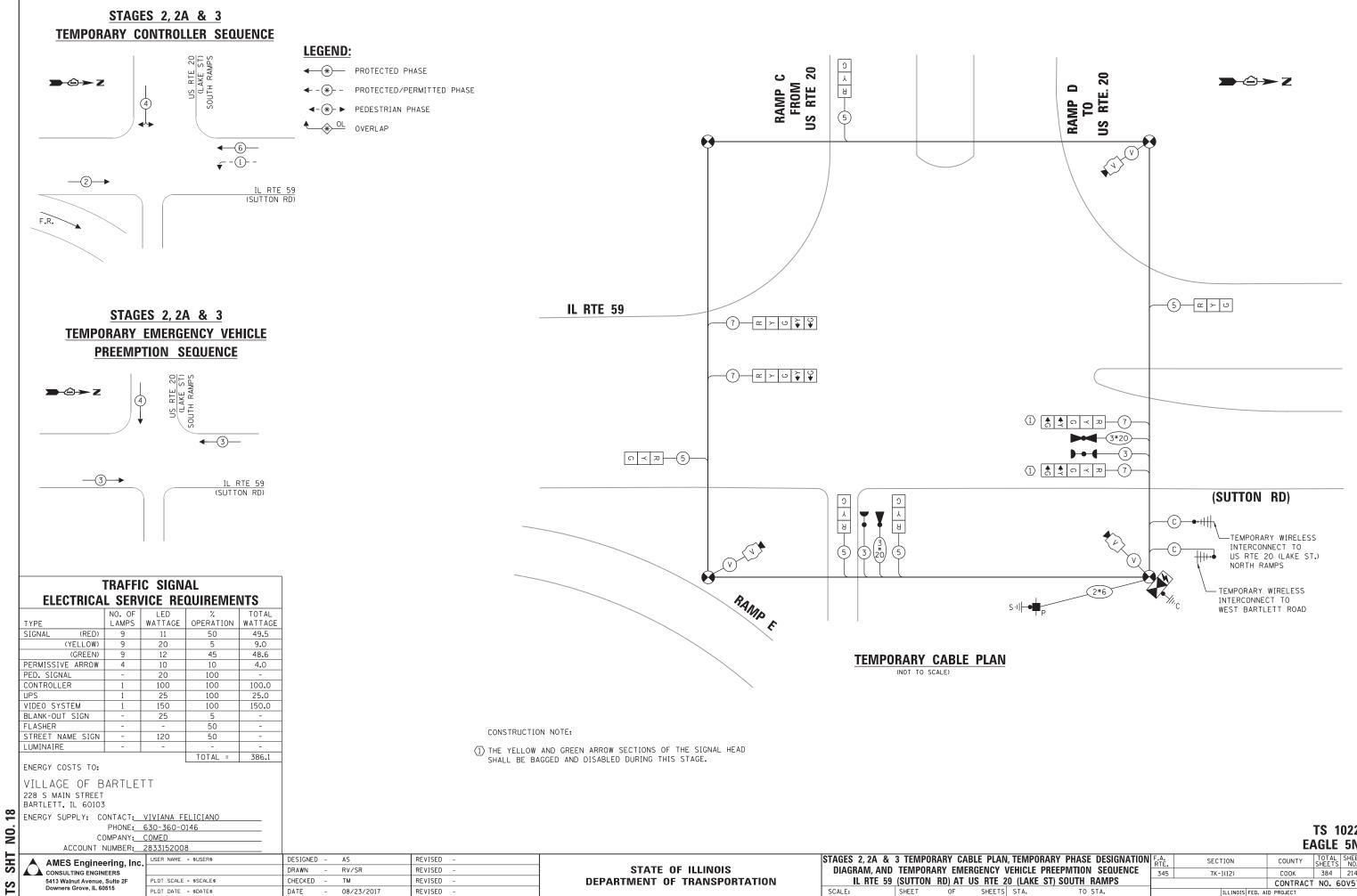
SIGNAL INSTALLATION PLAN	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
20 (LAKE ST) SOUTH RAMPS	345	7K-1(12)	СООК	384	212A	
20 (LARE 31) 300111 NAWI 3			CONTRACT	NO. 6	0V57	
TS STA. TO STA.	ILLINOIS FED. AID PROJECT					



PLOT DATE = \$DATE\$

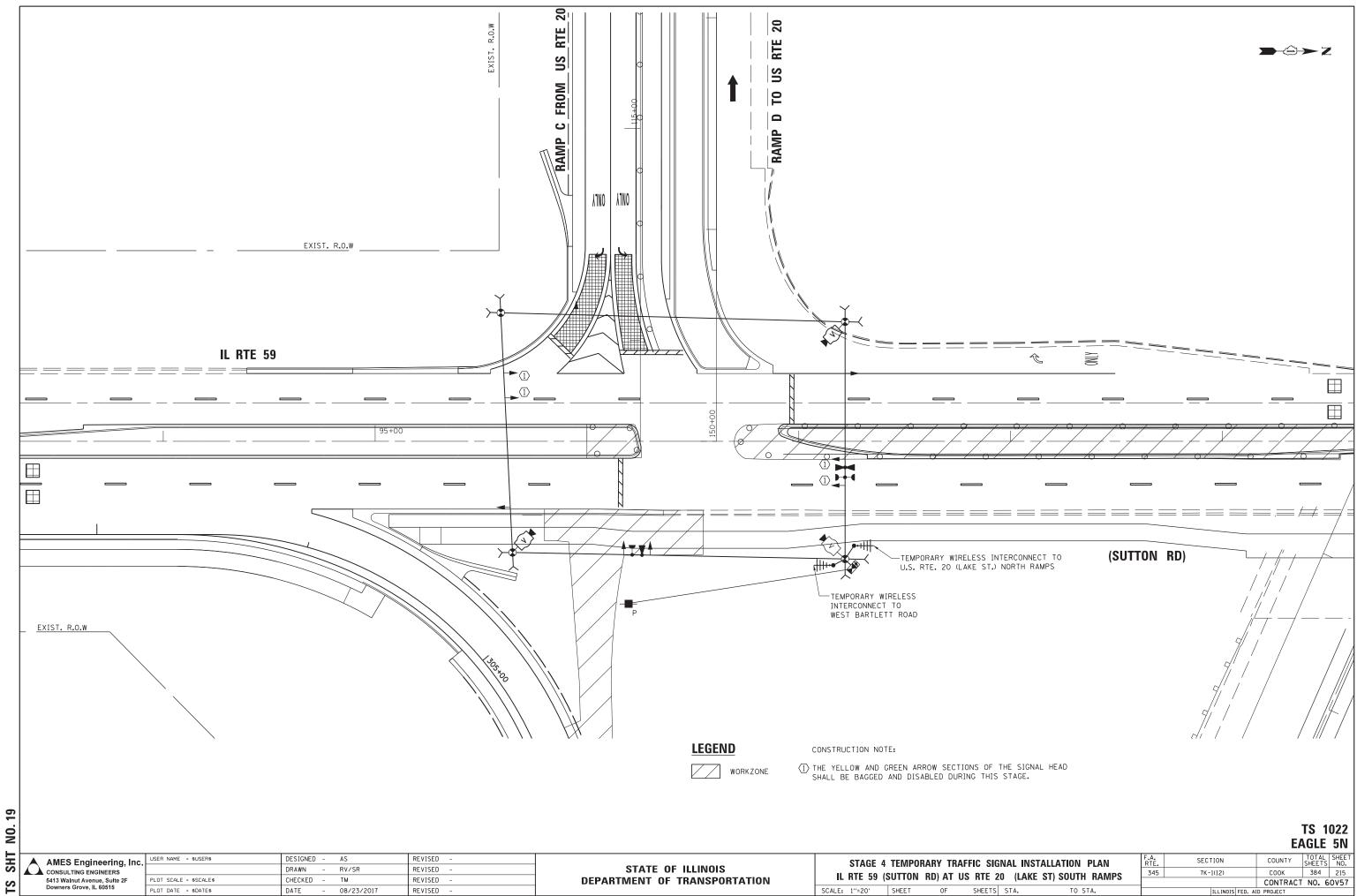
DESIGNED - AS	REVISED -		STAGE 3	TEMPOR	ARY TRA	FFIC SIGN	VAL INSTALLATION PLAN	RTE.	SECTION	COUNTY	SHEETS NO.
DRAWN - RV/SR	REVISED -	STATE OF ILLINOIS		CUTTON			(LAKE ST) SOUTH BAMPS	345	7K-1(12)	СООК	384 213
CHECKED - TM	REVISED -	DEPARTMENT OF TRANSPORTATION	IL RTE 59 (SUTTON	KU) AT U	JS RTE 20) (LAKE ST) SOUTH RAMPS			CONTRACT	NO. 60V57
DATE - 08/23/2017	REVISED -		SCALE: 1"=20'	SHEET	OF	SHEETS	STA. TO STA.		ILLINOIS FED. A	ID PROJECT	

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0	0	0	0	0	/
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====					- /-/
(NTERCONNECT TO NORTH RAMPS	SUTTON	RD)			// /
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				/	/
SIGNAL HEAD AGE.			41		/
					TS 1022 EAGLE 5N

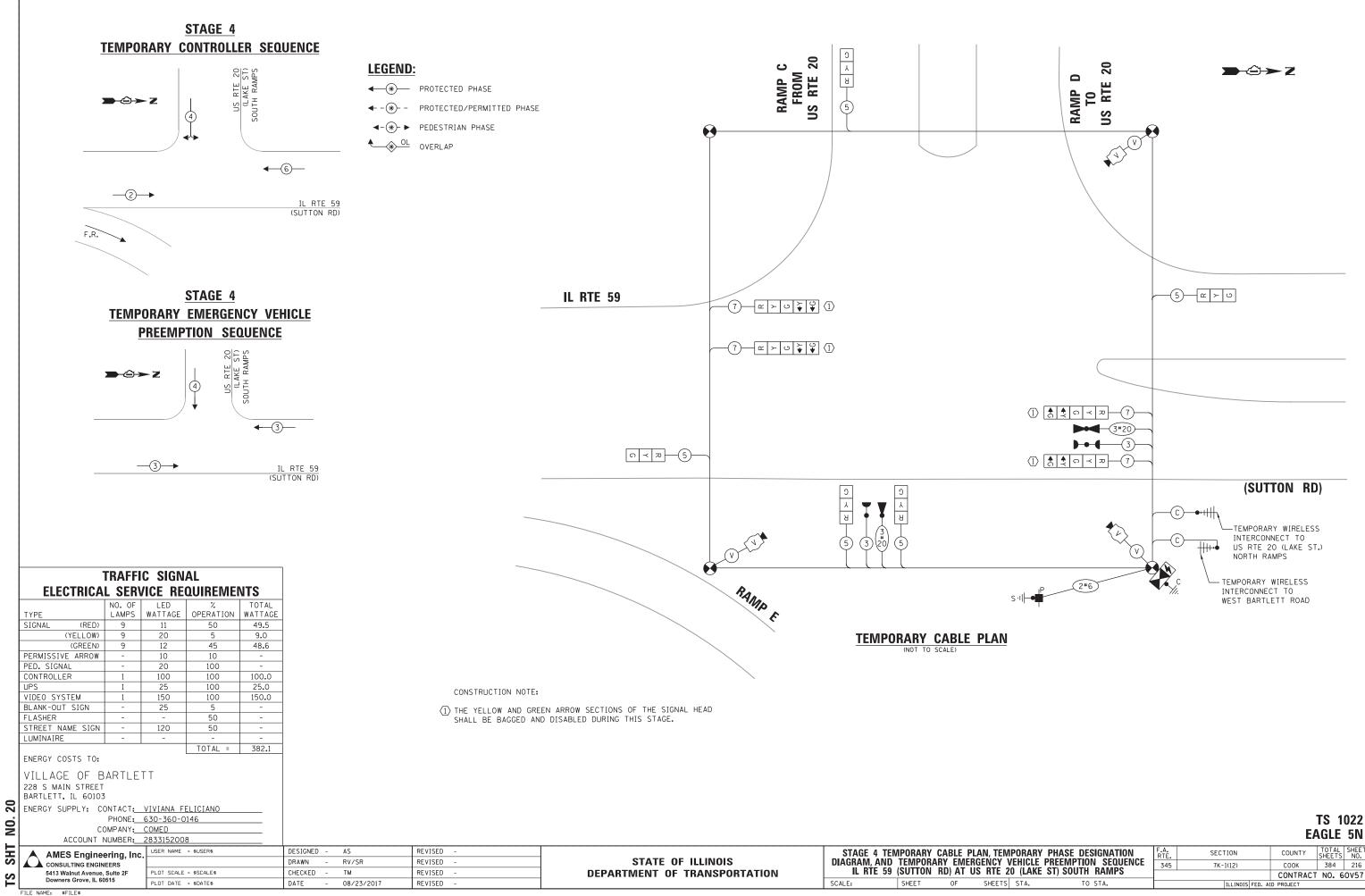


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AN, TEMPORARY PHASE DESIGNATION	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VEHICLE PREEPMTION SEQUENCE	345	7K-1(12)	СООК	384	214
20 (LAKE ST) SOUTH RAMPS			CONTRACT	NO. 6	0V57
TS STA. TO STA.		ILLINOIS FED. AI	D PROJECT		



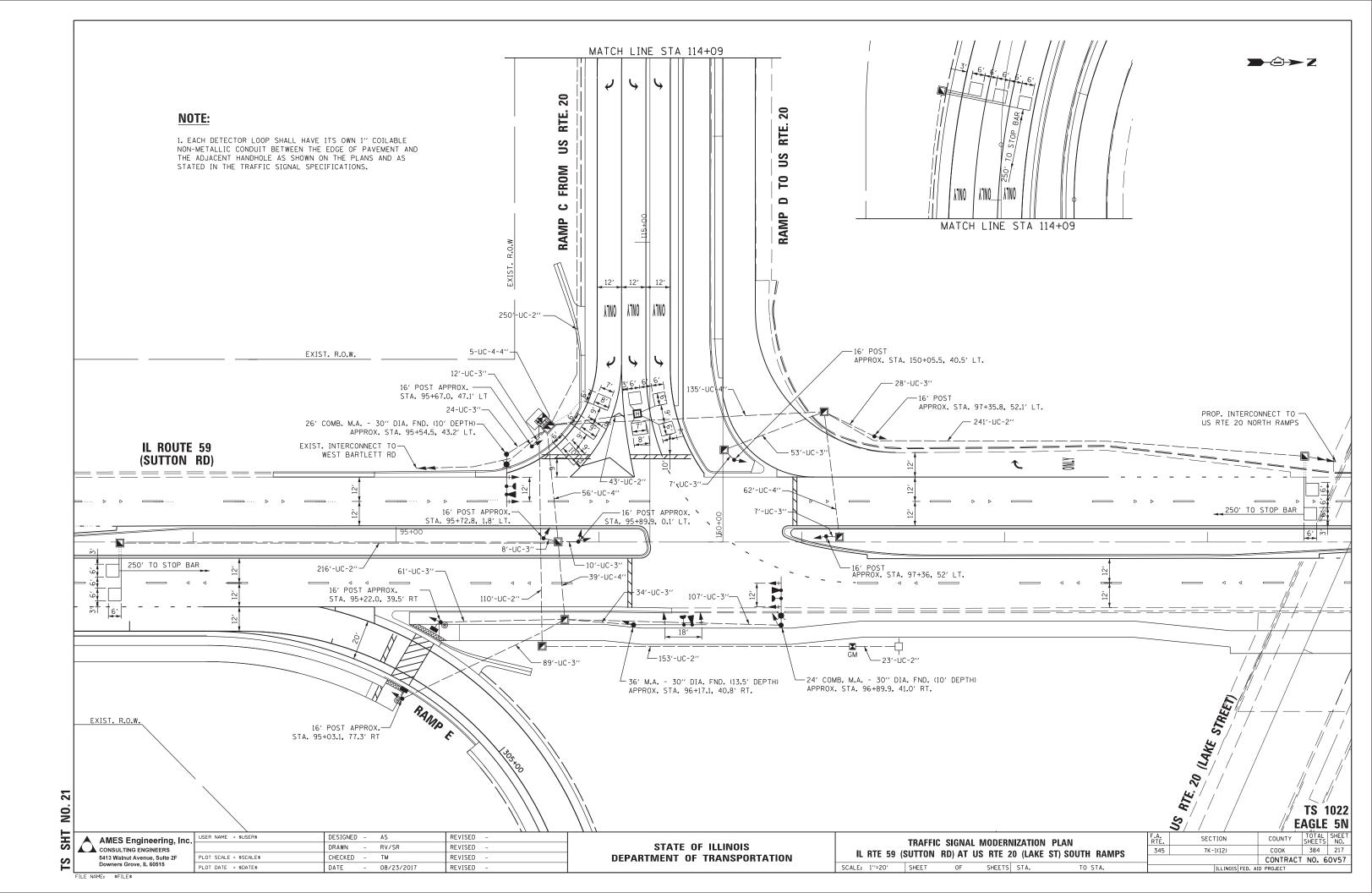
SIGNAL INSTALLATION PLAN F.A. RTE. SECTION COUNTY TOTAL SHEE SHEETS SHEETS 20 (LAKE ST) SOUTH RAMPS 345 7K-1(12) COOK 384 215			-	1			
20 (LAKE ST) SUUTH BAIMPS	SIGNAL INST	ALLATION PLAN	F.A. RTE.	SECTION	COUNTY		SHEET NO.
	20 /IAKE	STI SUITH BAMPS	345	7K-1(12)	СООК	384	215
	20 (LARE ST) SOUTH RAINFS				CONTRACT	NO. 6	0V57
TS STA. TO STA. ILLINOIS FED. AID PROJECT	TS STA.	TO STA.		ILLINOIS FED. A	ID PROJECT		

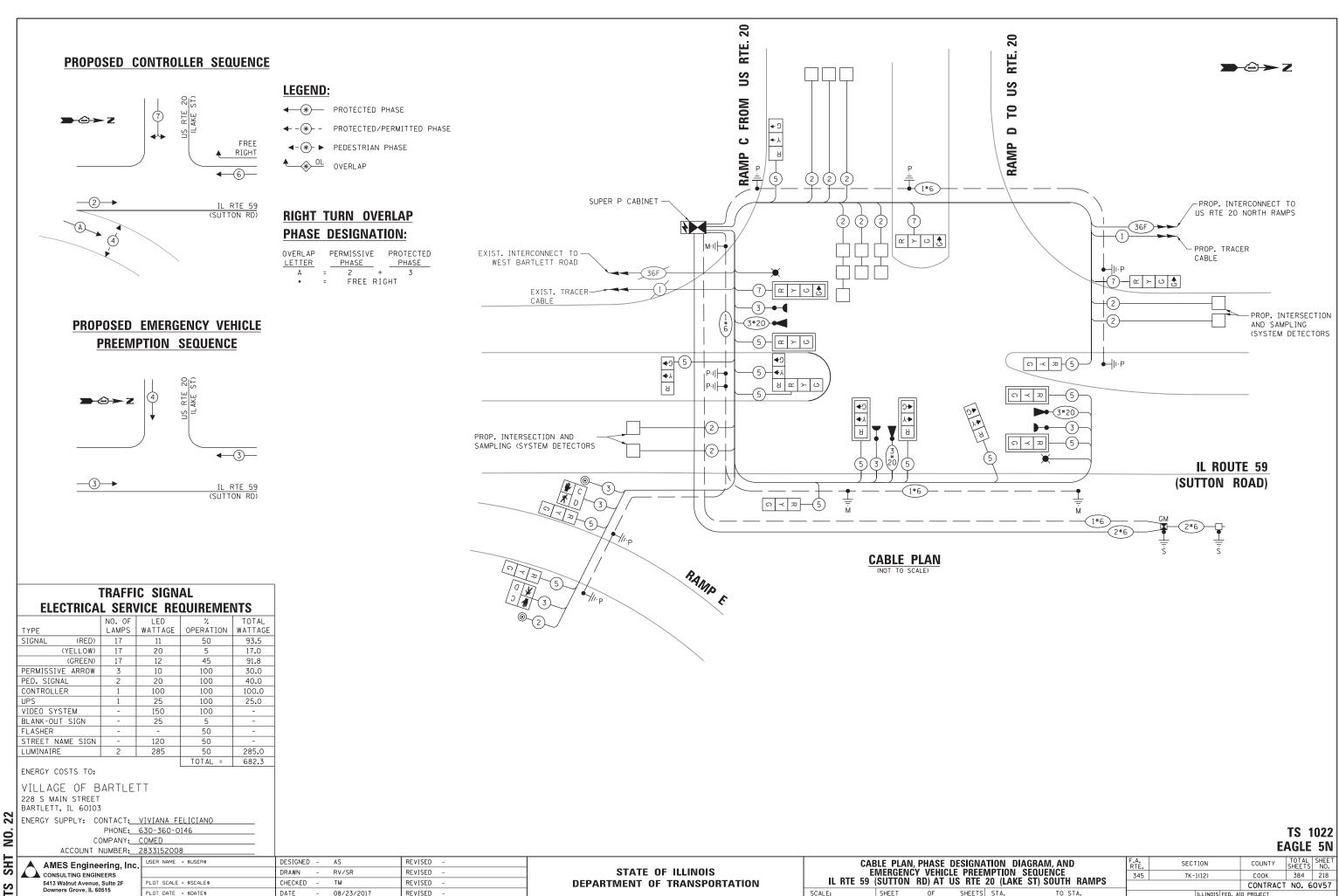


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EAGLE 5N

		FRASE DESIGNATION	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		PREEMPTION SEQUENCE	345	7K-1(12)	СООК	384	216
20 (LAKE ST) SOUTH RAMPS					CONTRACT	NO. 6	0V57
S	STA.	TO STA.		ILLINOIS FED. AI	D PROJECT		





	SIGN PA				RWISE
	3. 375. 8. 25	6	54	5 12.5	.3.375
	3.375 8.25		14.5	12.5	3.375
30 6		R	te	59	
8	S	utt	on	Ro	
	3.375	30.25		6 11.125	3.25
	DESIGN SERIES	AREA (SQ FT)	SIGN PANEL TYPE	SHEETING TYPE	QTY. REQUIRED
	D	11.25	2	ZZ	1



DESIGN	ANEA	SIGN FANEL	SHEETING	Q11.
SERIES	(SQ FT)	TYPE	TYPE	REQUIRED
D	12.5	2	ZZ	2
	-			

NOTE: FOR ADDITIONAL DESIGN AND INSTALLATION INFORMATION PLEASE SEE DISTRICT ONE MAST ARM MOUNTED STREET NAME SIGNS DETAIL.

							TS 1022 EAGLE 5N
AMES Engineering, In CONSULTING ENGINEERS 5413 Wahnut Avenue, Suite 2F Downers Grove, IL 60515	USER NAME = \$USER\$ PLOT SCALE = \$SCALE\$ PLOT DATE = \$DATE\$	DESIGNED - AS DRAWN - RV/SR CHECKED - TM DATE - 08/23/2017	REVISED - REVISED - REVISED - REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	MAST ARM MOUNTED STREET NAME SIGNS AND SCHEDULE OF QUANTITIES <	F.A. RTE. SECTION 345 7K-1(12)	SHEETS NO.

TS			3 W vnei
	FILE	NAME:	\$

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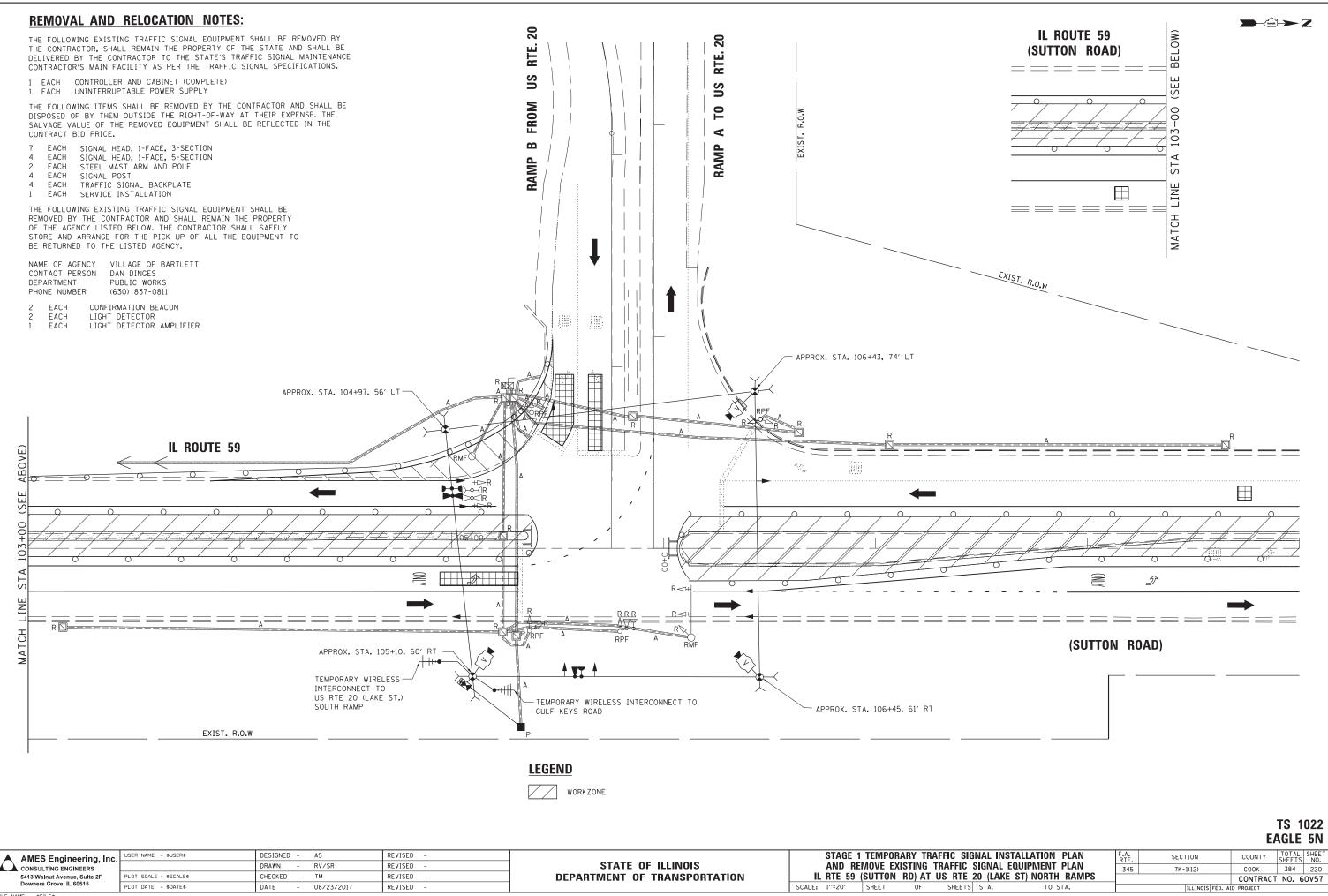
SHT

FILE	NAME:	\$FILE\$

ITEM DESCRIPTION	UNIT	TOTAL QTY.
SIGN PANEL - TYPE 2	SQ FT	36.25
UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA.	FOOT	1,036
UNDERGROUND CONDUIT, GALVANIZED STEEL, 3" DIA.	FOOT	440
UNDERGROUND CONDUIT, GALVANIZED STEEL, 4" DIA.	FOOT	312
HANDHOLE	EACH	9
HEAVY-DUTY HANDHOLE	EACH	1
DOUBLE HANDHOLE	EACH	1
TRANSCEIVER - FIBER OPTIC	EACH	1
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C	FOOT	433
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	1,03
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	FOOT	2,60
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C	FOOT	293
ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1 PAIR	FOOT	1,60
ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2C	FOOT	318
ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C	FOOT	1,020
TRAFFIC SIGNAL POST, GALVANIZED STEEL 16 FT.	EACH	8
STEEL MAST ARM ASSEMBLY AND POLE, 36 FT.	EACH	1
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE, 24 FT.	EACH	1
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE, 26 FT.	EACH	1
CONCRETE FOUNDATION, TYPE A	FOOT	36
CONCRETE FOUNDATION, TYPE C	FOOT	4
CONCRETE FOUNDATION, TYPE E 30-INCH DIAMETER	FOOT	33.5
SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST-ARM MOUNTED	EACH	5
SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED	EACH	9
SIGNAL HEAD, LED, 1-FACE, 4-SECTION, BRACKET MOUNTED	EACH	1
SIGNAL HEAD, LED, 1-FACE, 4-SECTION, MAST ARM MOUNTED	EACH	1
PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER	EACH	2
TRAFFIC SIGNAL BACKPLATE, LOUVERED, FORMED PLASTIC	EACH	6
INDUCTIVE LOOP DETECTOR	EACH	10
DETECTOR LOOP, TYPE I	FOOT	472
LIGHT DETECTOR	EACH	3
LIGHT DETECTOR AMPLIFIER	EACH	1
PEDESTRIAN PUSH-BUTTON	EACH	2
TEMPORARY TRAFFIC SIGNAL INSTALLATION	EACH	1
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
REMOVE EXISTING HANDHOLE	EACH	8
REMOVE EXISTING CONCRETE FOUNDATION	EACH	7
EMERGENCY VEHICLE PRIORITY SYSTEM LINE SENSOR CABLE, NO. 20 3/C	FOOT	590
SERVICE INSTALLATION - GROUND MOUNTED, METERED	EACH	1
FULL-ACTUATED CONTROLLER AND TYPE SUPER P CABINET, SPECIAL	EACH	1
UNINTERRUPTABLE POWER SUPPLY, SPECIAL	EACH	1
TEMPORARY TRAFFIC SIGNAL TIMING	EACH	1

* 100% COST TO VILLAGE OF BARTLETT

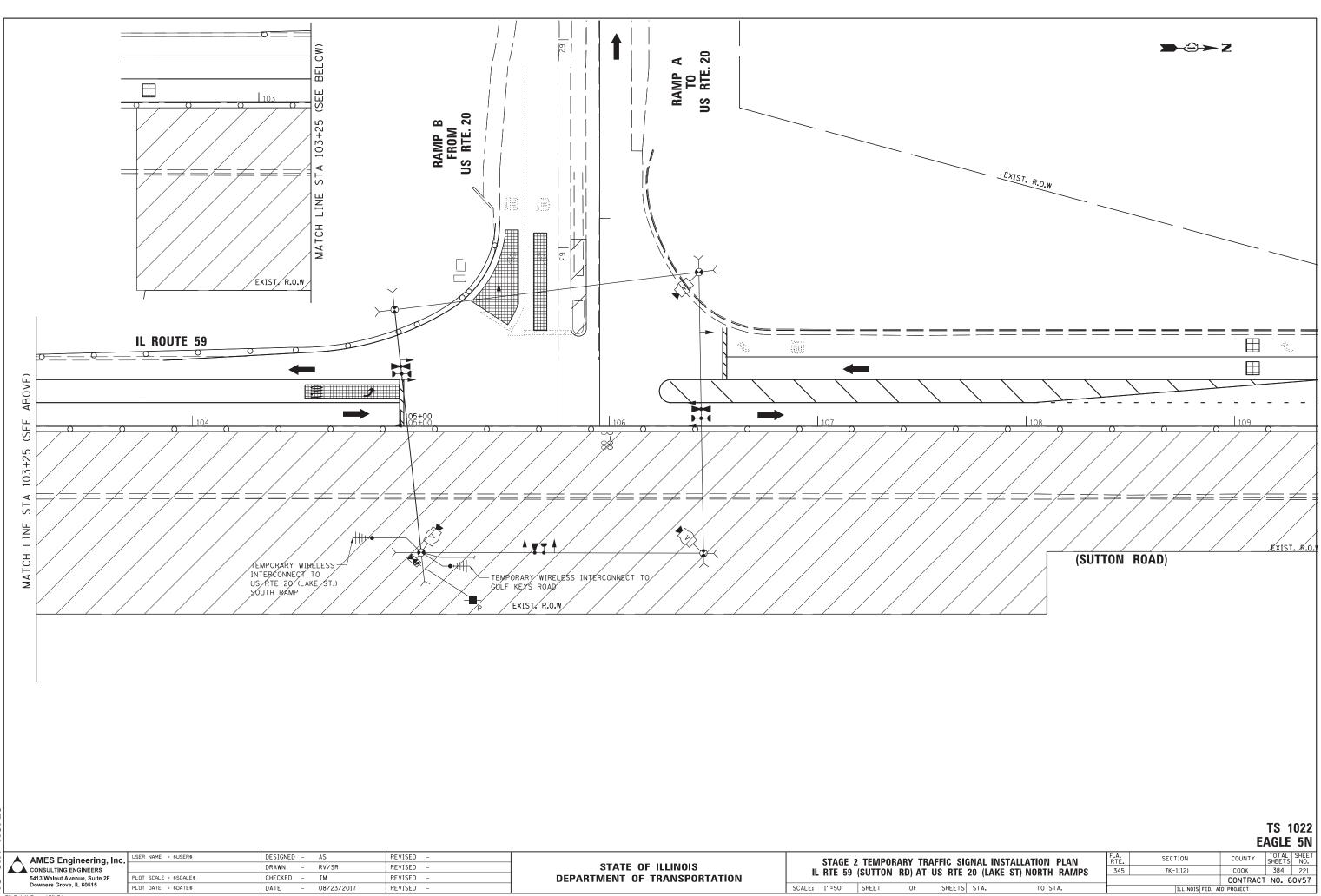
SCHEDULE OF QUANTITIES



NO. SHT TS

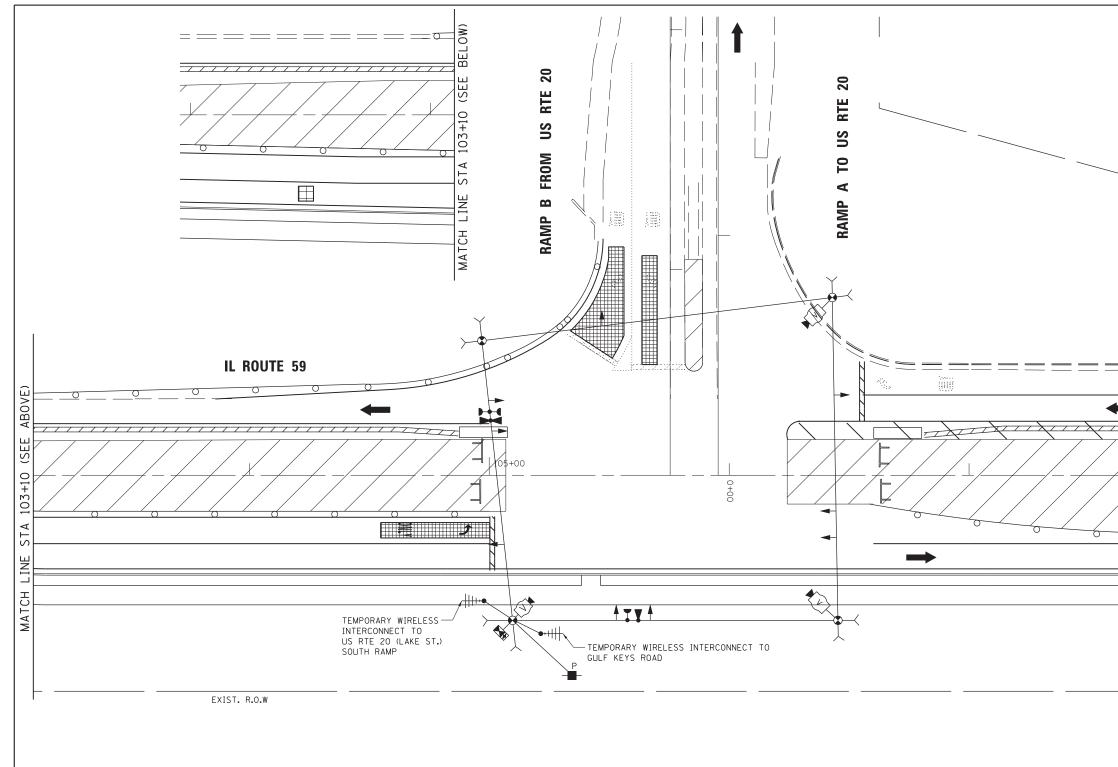
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E	AMES Engineering, Inc.	USER NAME = \$USER\$	DESIGNED -	AS	REVISED -		STAGE 1 TEMPORARY TRAFF					
<u>s</u>			DRAWN -	RV/SR	REVISED -	STATE OF ILLINOIS	AND REMOVE EXISTING TI IL RTE 59 (SUTTON RD) AT U					
	5413 Walnut Avenue, Sulte 2F Downers Grove, IL 60515	PLOT SCALE = \$SCALE\$	CHECKED -	TM	REVISED -	DEPARTMENT OF TRANSPORTATION			1	KU) AT		
	FILE NAME: \$FILE\$	PLOT DATE = \$DATE\$	DATE -	08/23/2017	REVISED -		SCALE:	1''=20'	SHEET	UF	SHEETS	





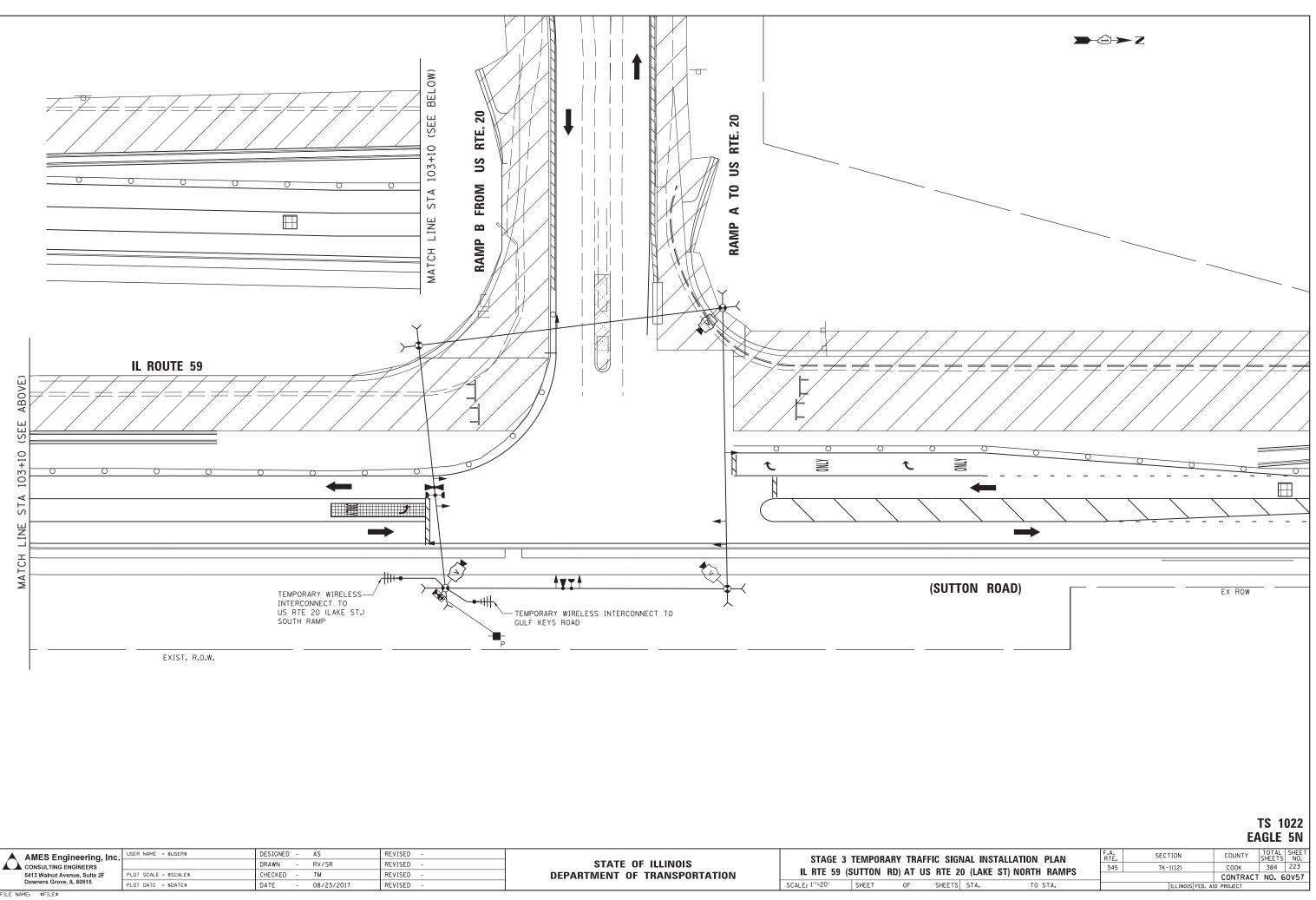
SHT	AMES Engineering, Inc. CONSULTING ENGINEERS 5413 Wajhut Avenue, Suite 2F	USER NAME = \$USER\$	DESIGNED - AS REVISED - DRAWN - RV/SR REVISED - CHECKED - TM REVISED -			STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	STAGE 2 TEMPORARY TRAFFIC SI IL RTE 59 (SUTTON RD) AT US RTE				
TS	Downers Grove, IL 60515	PLOT DATE = \$DATE\$		08/23/2017	REVISED -		SCALE: 1''=50'	SHEET	OF	SHEETS	



SHT NO. 26

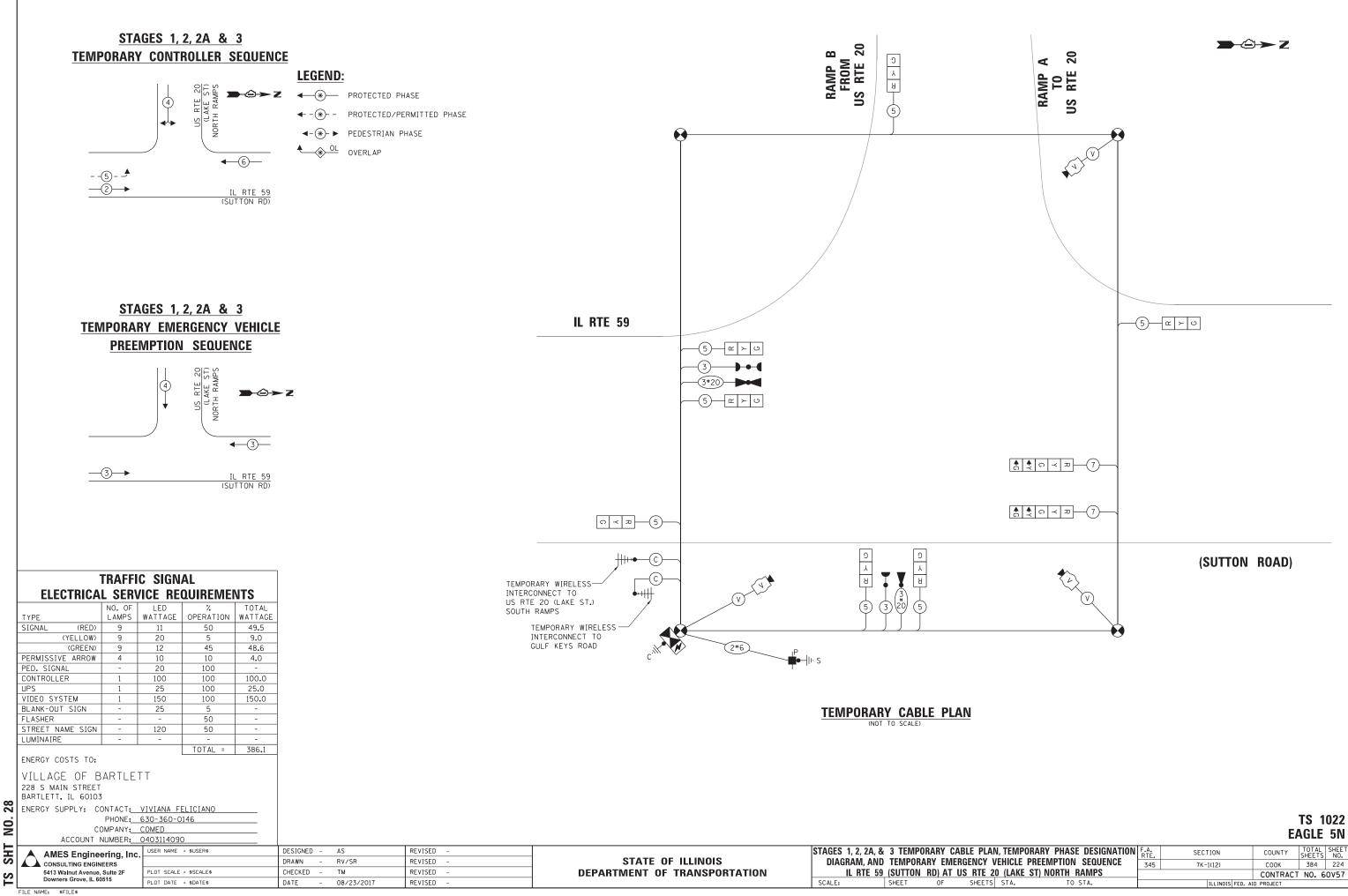
<u> </u>											
- E	AMES Engineering, Inc.	USER NAME = \$USER\$	DESIGNED -	AS	REVISED -		STAGE 2A TEMPORARY TRAFFIC SI Il rte 59 (sutton rd) at us rte				
S	CONSULTING ENGINEERS		DRAWN -	RV/SR	REVISED -	STATE OF ILLINOIS					
S		PLOT SCALE = \$SCALE\$	CHECKED -	ТМ	REVISED -	DEPARTMENT OF TRANSPORTATION	IL RIE 59 (SUITUN RD) AT US RIE 2				
Ĥ		PLOT DATE = \$DATE\$	DATE -	08/23/2017	REVISED -		SCALE: 1"=50"	SHEET	OF	SHEETS	
					•	•				· · · · · · · · · · · · · · · · · · ·	

EXIST. R.	D. W	_		► C .
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	(SU	JTTO	N RD)	
SIGNAL INSTALLATION E 20 (LAKE ST) NORTH TS STA. TO ST	RAMPS	F.A. RTE. 345	SECTION 7K-1(12) ILLINOIS FED.	TS 1022 EAGLE 5N COUNTY TOTAL SHEET NO. 200K 384 222 CONTRACT NO. 60V57 AID PROJECT

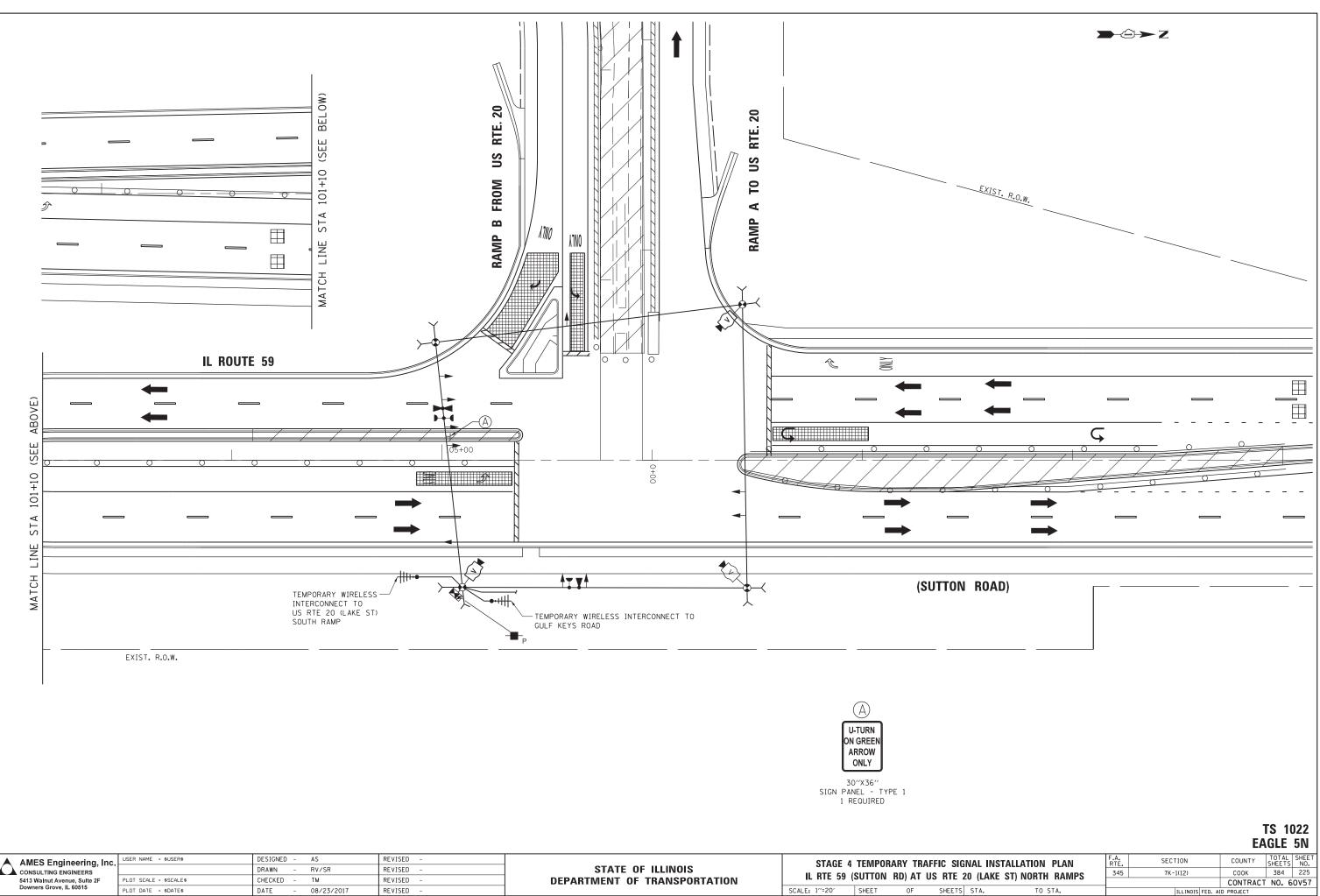


SHT NO. 27 TS

ᆂㅣ	AMES Engineering, Inc.	USER NAME = \$USER\$	DESIGNED -	AS	REVISED	-		STAGE 3 TEMPORARY TRAFFIC SI				
5	CONSULTING ENGINEERS		DRAWN -	RV/SR	REVISED	-	STATE OF ILLINOIS					
S	5413 Walnut Avenue, Sulte 2F	PLOT SCALE = \$SCALE\$	CHECKED -	тм	REVISED	-	DEPARTMENT OF TRANSPORTATION	IL RTE 59 (SUTTON RD) AT US RTE 20				
μ	Downers Grove, IL 60515	PLOT DATE = \$DATE\$	DATE -	08/23/2017	REVISED	=		SCALE: 1"=20'	SHEET	OF	SHEETS	
	ETLE NAME, CETLES											



	RTE.	SECTION	COONT	SHEETS	NO.
VEHICLE PREEMPTION SEQUENCE	345	7K-1(12)	СООК	384	224
20 (LAKE ST) NORTH RAMPS			CONTRACT	NO. 6	0V57
TS STA. TO STA.		ILLINOIS FED. A	ID PROJECT		



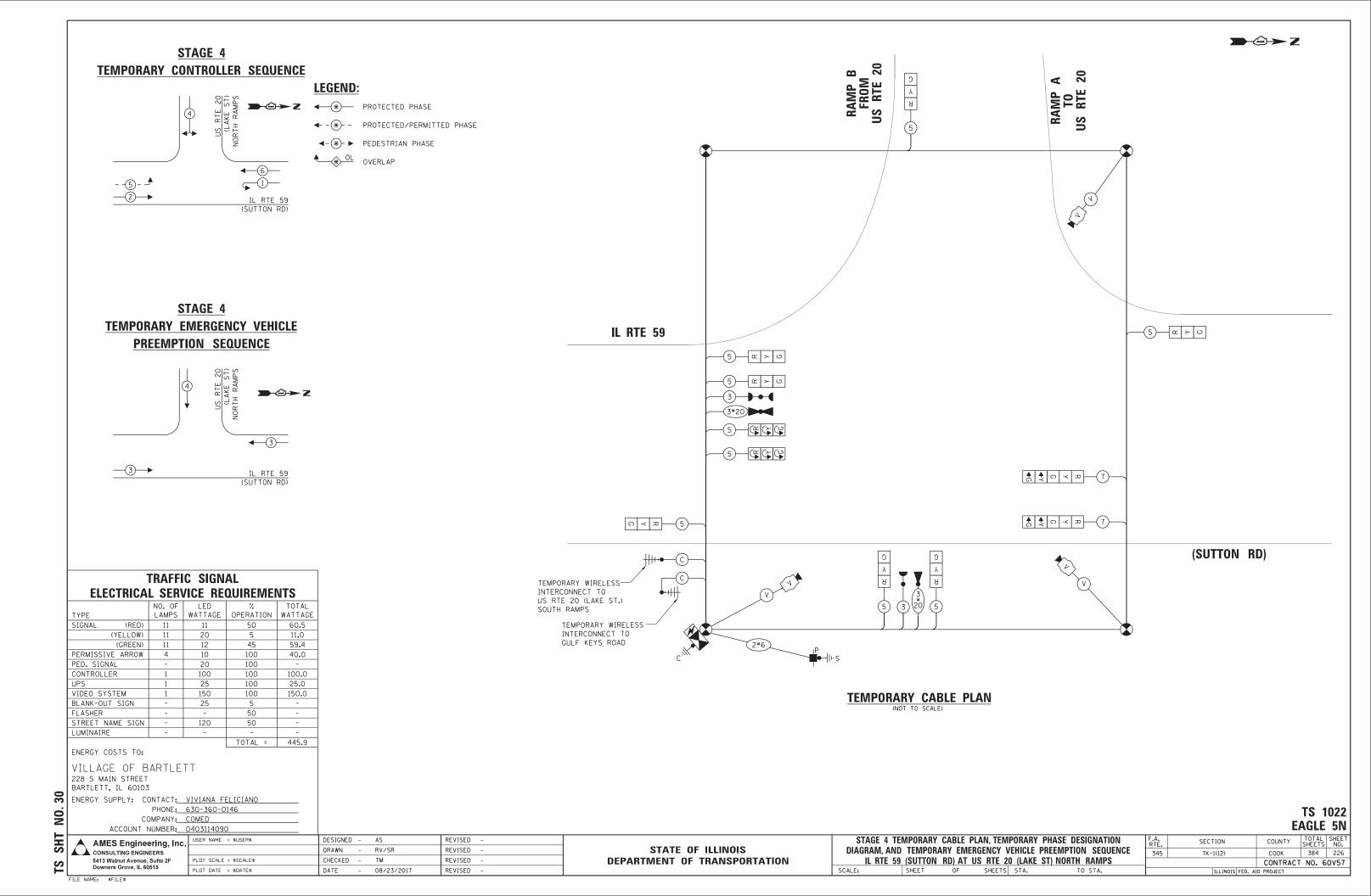
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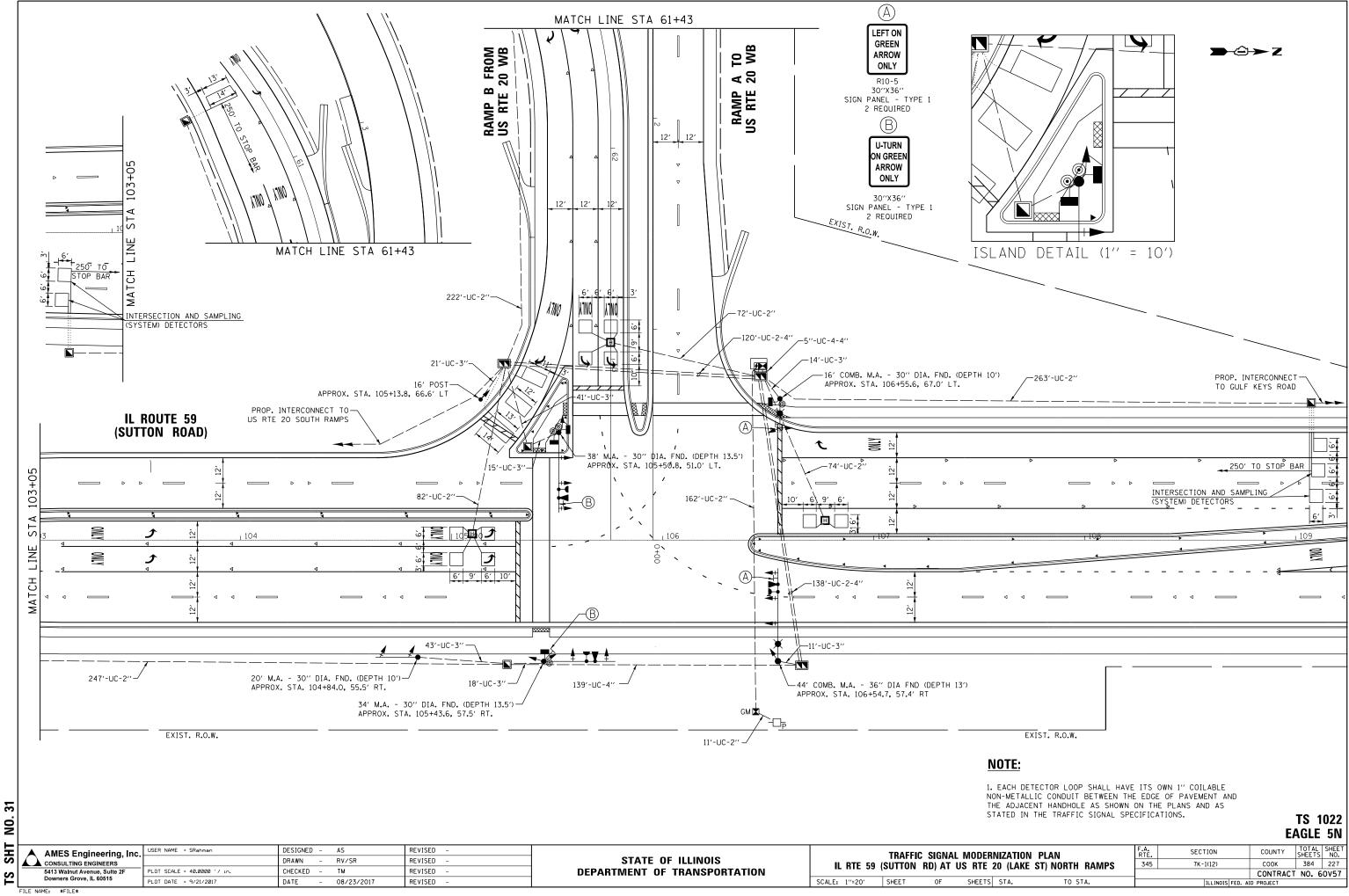
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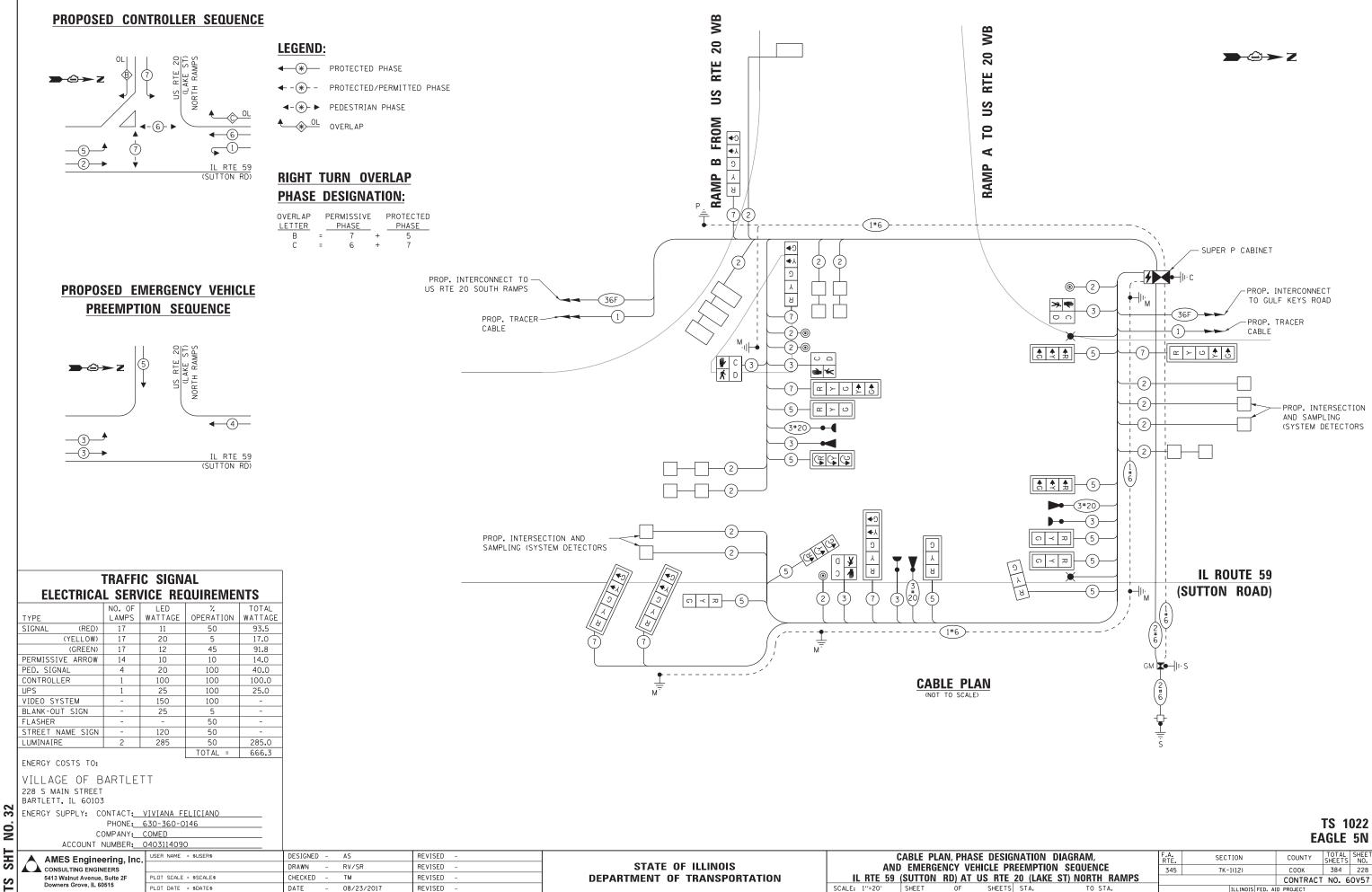
SCALE: 1"=20' SHEET





NO. SHT

E 20 (LAKE ST) NORTH RAMPS		345	7K-1(12)		СООК	384	227
					CONTRACT	NO. 0	60v57
TS	STA. TO STA.		ILLINOIS	FED. AI	D PROJECT		



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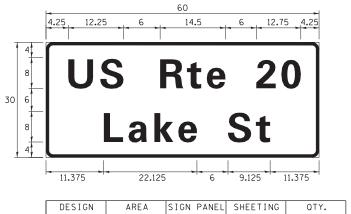
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UNATION DIAUKANI,	RTE.	SECTION	COUNTY	SHEETS	NO.
PREEMPTION SEQUENCE	345	7K-1(12)	СООК	384	228
20 (LAKE ST) NORTH RAMPS			CONTRACT	NO. 6	0V57
S STA. TO STA.		ILLINOIS FED. AI	D PROJECT		

SCHEDULE OF QUANTITIES

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3.375 8.25	6	14.5 6	12.5	3.375
	D	40	E 0	
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31	utt	οη	Ro	
3.375	30.25		6 11.125	3.25
DESIGN SERIES	AREA (SQ FT)	SIGN PANEL TYPE	SHEETING TYPE	QTY. REQUIRED
D	11.25	2	ZZ	1



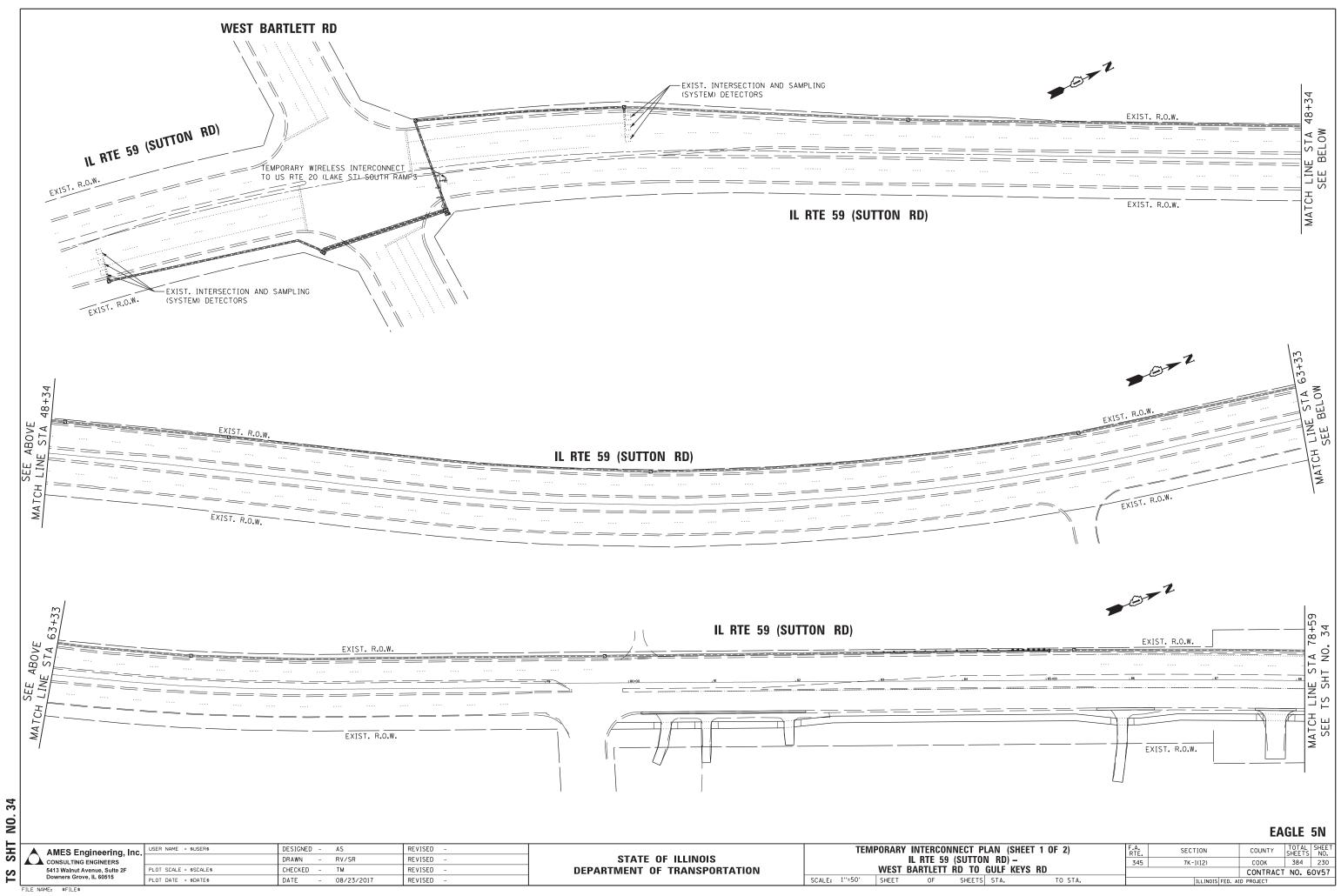
D 125 2 77 2	SERIES	(SQ FT)	TYPE	TYPE	REQUIRED
	D	12.5	2	ZZ	2

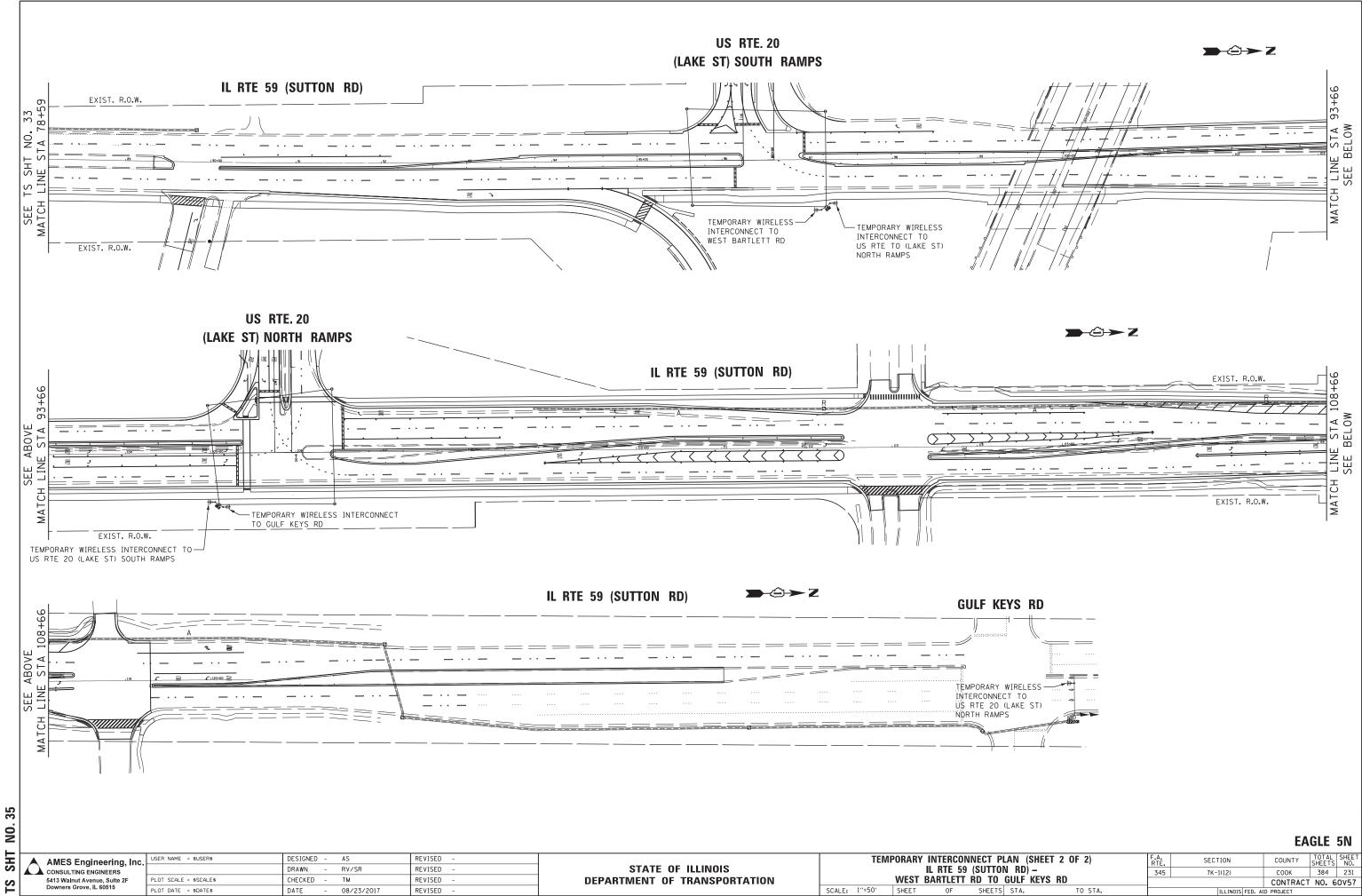
NOTE: FOR ADDITIONAL DESIGN AND INSTALLATION INFORMATION PLEASE SEE DISTRICT ONE MAST ARM MOUNTED STREET NAME SIGNS DETAIL.

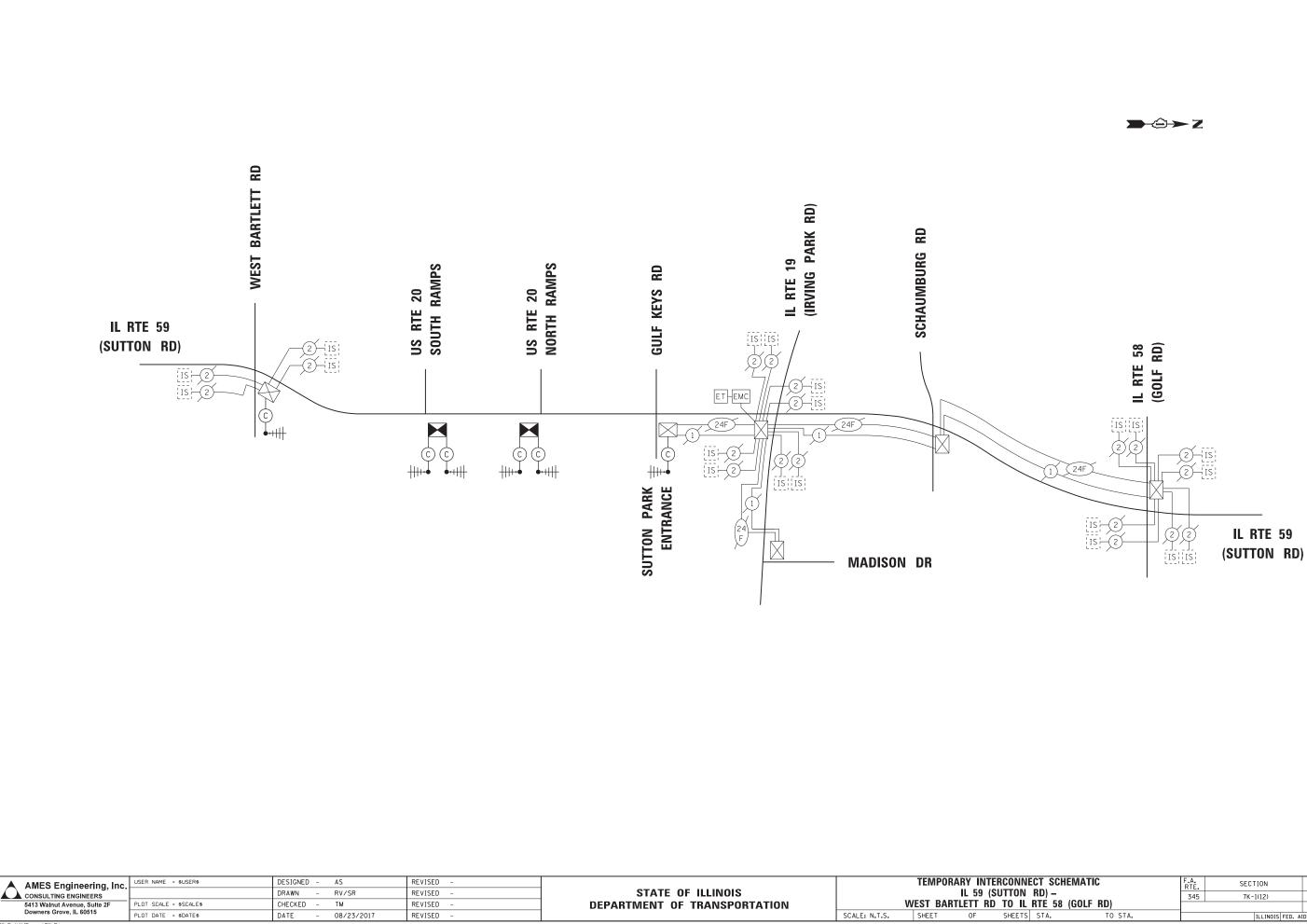
NO											TS 1022 EAGLE 5N
토	AMES Engineering, Inc.	USER NAME = \$USER\$	DESIGNED – AS	REVISED -		M	AST ARM MOUNTED STREET NAME SIG	INS AND	F.A. RTF.	SECTION	COUNTY TOTAL SHEET SHEETS NO.
୍	CONSULTING ENGINEERS		DRAWN - RV/SR	REVISED -	STATE OF ILLINOIS		SCHEDULE OF QUANTITIES		345	7K-1(12)	СООК 384 229
S		PLOT SCALE = \$SCALE\$	CHECKED - TM	REVISED -	DEPARTMENT OF TRANSPORTATION	IL RTE 59	<u>9 (SUTTON RD) AT US RTE 20 (LAKE ST</u>	NORTH RAMPS			CONTRACT NO. 60V57
μ	Downers Grove, IL 60515	PLOT DATE = \$DATE\$	DATE - 08/23/2017	REVISED -		SCALE:	SHEET OF SHEETS STA.	TO STA.		ILLINOIS FE	D. AID PROJECT
FIL	E NAME: \$FILE\$						· ·				

ITEM DESCRIPTION	UNIT	TOTAL QTY.
SIGN PANEL - TYPE 1	SQ FT	15
SIGN PANEL - TYPE 2	SQ FT	36.25
UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA.	FOOT	1,133
UNDERGROUND CONDUIT, GALVANIZED STEEL, 3" DIA.	FOOT	163
UNDERGROUND CONDUIT, GALVANIZED STEEL, 4" DIA.	FOOT	675
HANDHOLE	EACH	5
HEAVY-DUTY HANDHOLE	EACH	3
DOUBLE HANDHOLE	EACH	3
TRANSCEIVER - FIBER OPTIC	EACH	1
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C	FOOT	854
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	1,774
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	FOOT	2,645
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C	FOOT	1,932
ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1 PAIR	FOOT	3,056
ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2C	FOOT	196
ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C	FOOT	814
TRAFFIC SIGNAL POST, GALVANIZED STEEL 16 FT.	EACH	1
STEEL MAST ARM ASSEMBLY AND POLE, 20 FT.	EACH	1
STEEL MAST ARM ASSEMBLY AND POLE, 34 FT.	EACH	1
STEEL MAST ARM ASSEMBLY AND POLE, 38 FT.	EACH	1
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE, 16 FT.	EACH	1
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE, 44 FT.	EACH	1
CONCRETE FOUNDATION, TYPE A	FOOT	8
CONCRETE FOUNDATION, TYPE C	FOOT	4
CONCRETE FOUNDATION, TYPE E 30-INCH DIAMETER	FOOT	47
CONCRETE FOUNDATION, TYPE E 36-INCH DIAMETER	FOOT	13
SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST-ARM MOUNTED	EACH	7
SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED	EACH	3
SIGNAL HEAD, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED	EACH	2
SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST ARM MOUNTED	EACH	5
PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER	EACH	4
TRAFFIC SIGNAL BACKPLATE, LOUVERED, FORMED PLASTIC	EACH	12
INDUCTIVE LOOP DETECTOR	EACH	12
DETECTOR LOOP, TYPE I	FOOT	627
LIGHT DETECTOR	EACH	3
LIGHT DETECTOR AMPLIFIER	EACH	1
PEDESTRIAN PUSH-BUTTON	EACH	4
TEMPORARY TRAFFIC SIGNAL INSTALLATION	EACH	1
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
REMOVE EXISTING HANDHOLE	EACH	9
REMOVE EXISTING CONCRETE FOUNDATION	EACH	7
EMERGENCY VEHICLE PRIORITY SYSTEM LINE SENSOR CABLE, NO. 20 3/C	FOOT	893
FULL-ACTUATED CONTROLLER AND TYPE SUPER P CABINET (SPECIAL)	EACH	1
SERVICE INSTALLATION - GROUND MOUNTED, METERED	EACH	1
UNINTERRUPTABLE POWER SUPPLY, SPECIAL	EACH	1
TEMPORARY TRAFFIC SIGNAL TIMING	EACH	1

*100% COST TO VILLAGE OF BARTLETT







SCALE: N.T.S.

FILE NAME: \$FILE\$

PLOT DATE = \$DATE\$

DATE

-

08/23/2017

REVISED

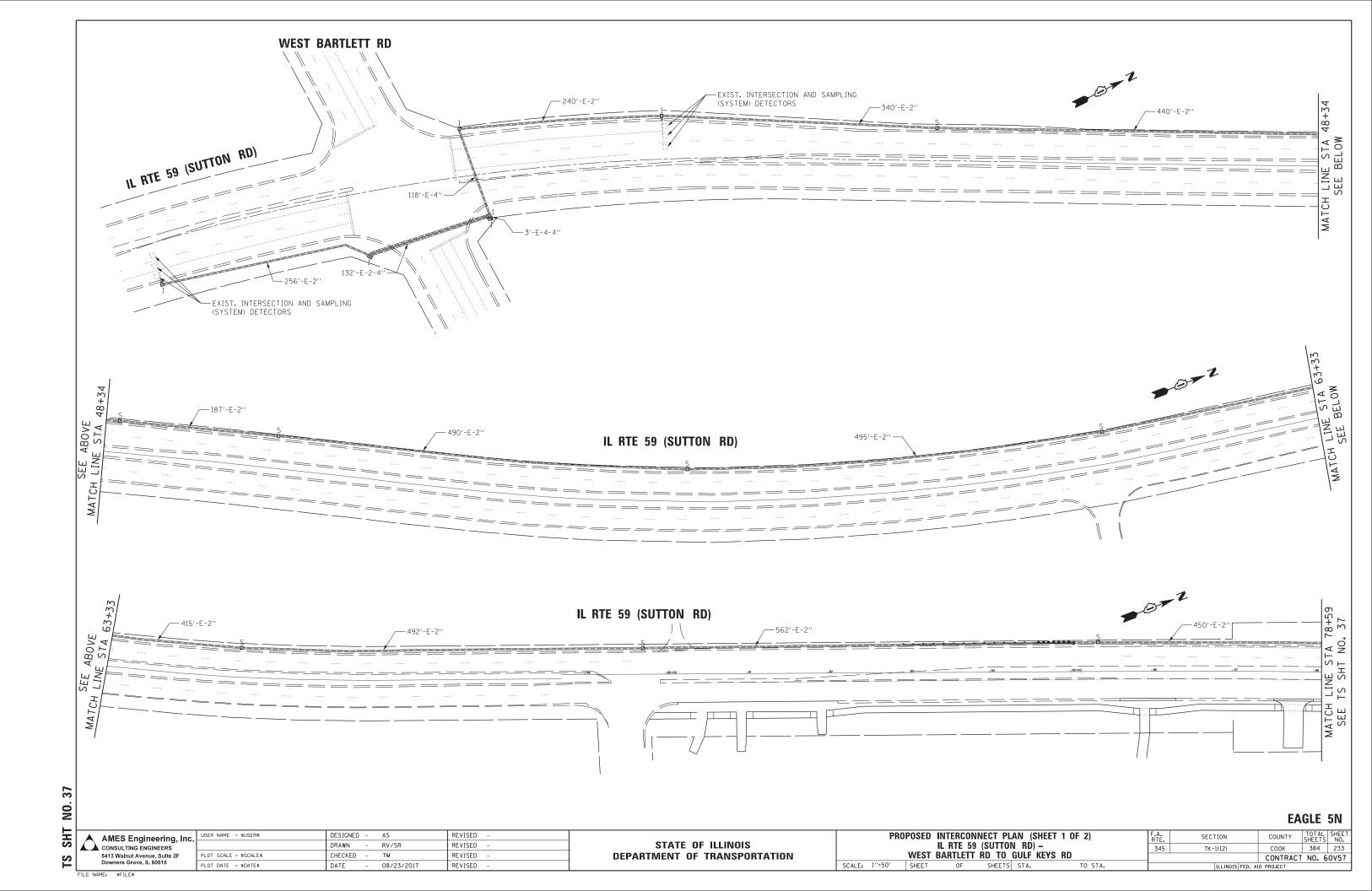
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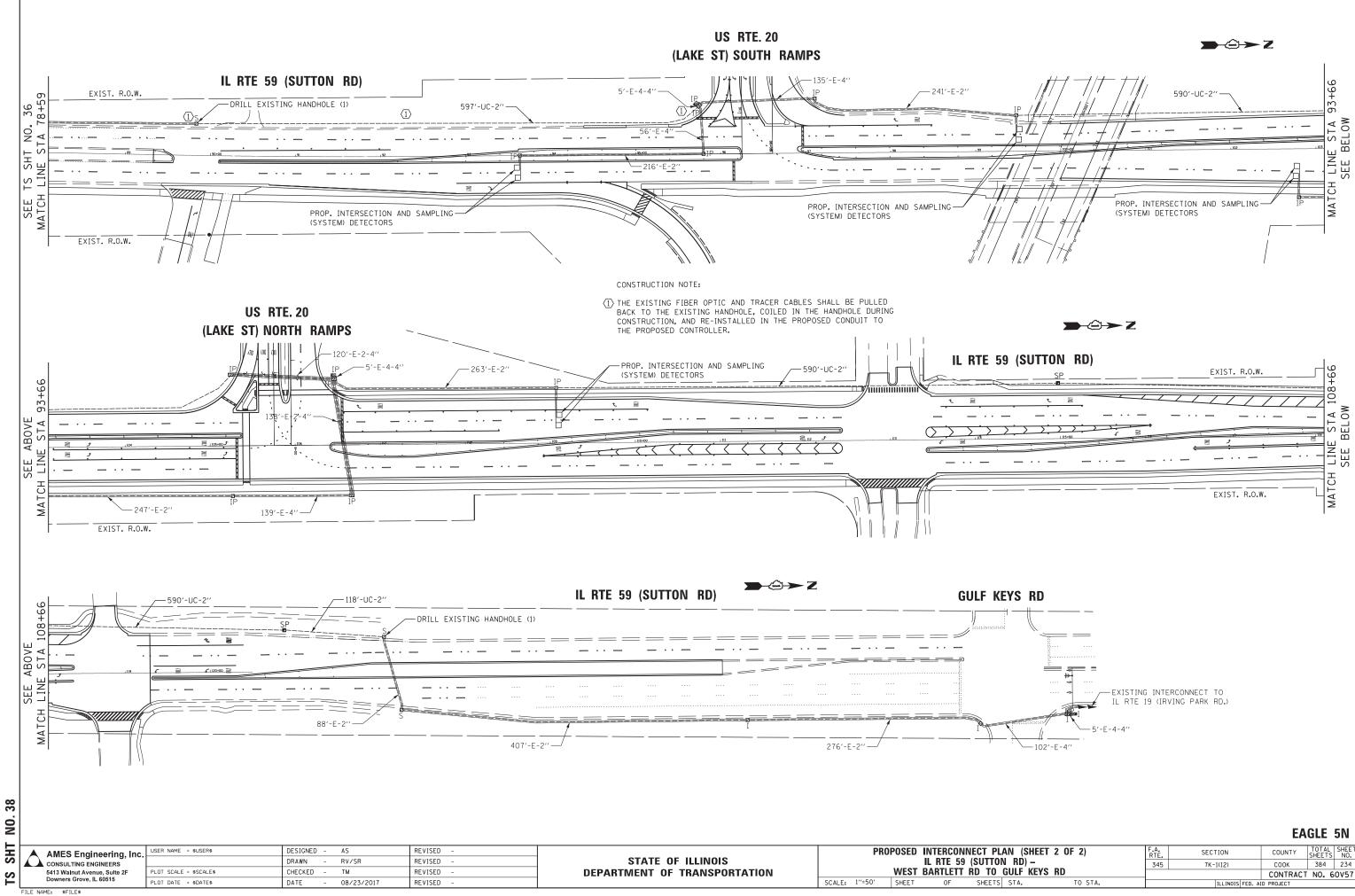
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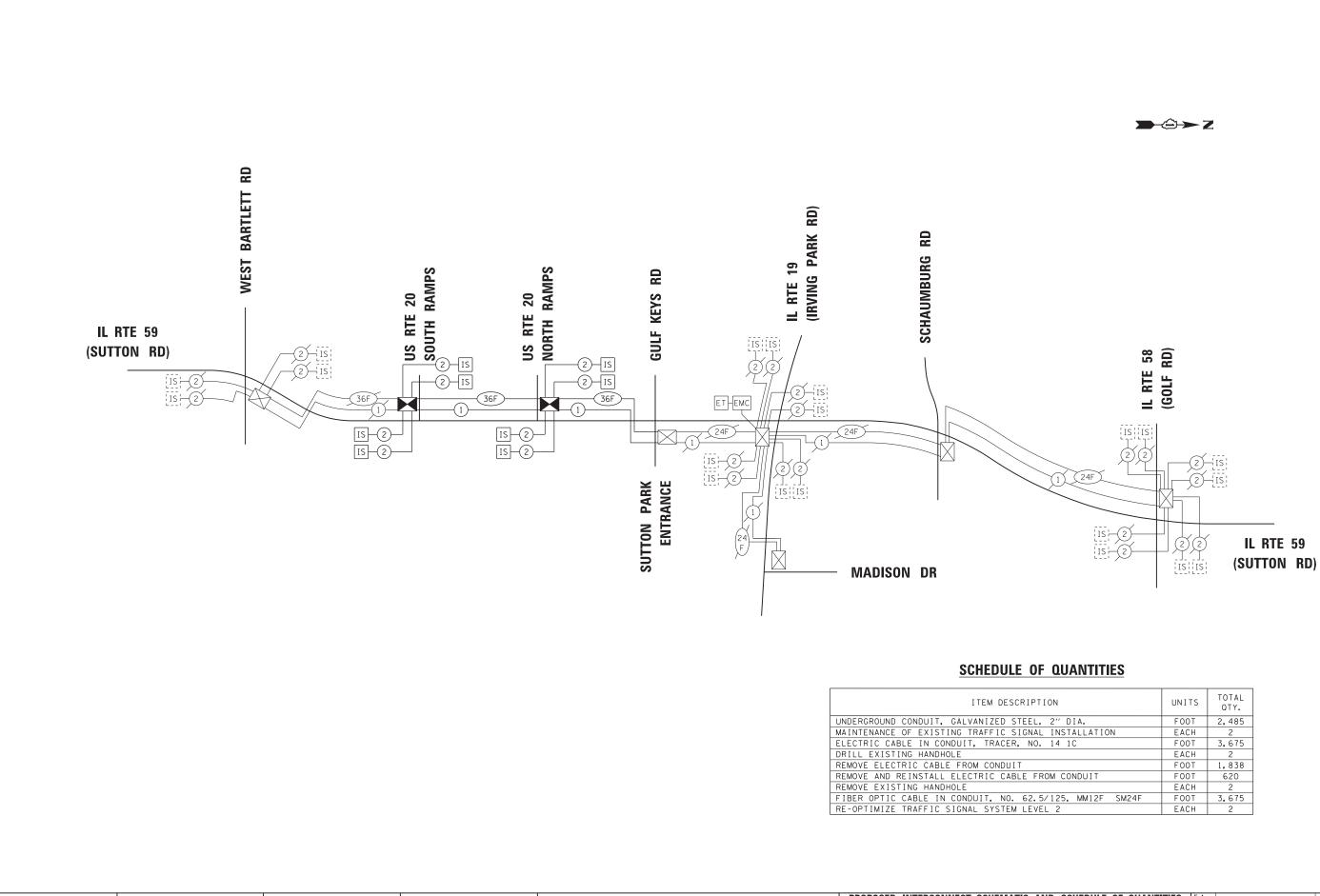
EAGLE 5N

		F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
	RD) -		345	7K-1(12)	СООК	384	232
IL RTE 58 (GOLF RD)			_		CONTRACT	NO. 6	0V57
TS	STA.	TO STA.		ILLINOIS FED. AI	D PROJECT		





			EA	GLE	5N
PLAN (SHEET 2 OF 2)	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
ON RD) –	345	7K-1(12)	СООК	384	234
D GULF KEYS RD			CONTRACT	NO. 6	0V57



SHT NO. 39 TS

토	AMES Engineering, Inc.	USER NAME = \$USER\$	DESIGNED - AS	REVISED -		PROPOSED IN	TERCONNE			IEDULE OF QUANTITIES	F.A. RTE.	SECTION	COUNTY	TOTAL SHEET SHEETS NO.
S	CONSULTING ENGINEERS		DRAWN - RV/SR	REVISED -	STATE OF ILLINOIS				(SUTTON RD) -		345	7K-1(12)	СООК	384 235
S	5413 Walnut Avenue, Sulte 2F Downers Grove, IL 60515	PLOT SCALE = \$SCALE\$	CHECKED - TM	REVISED -	DEPARTMENT OF TRANSPORTATION	V	NEST BAR	TLETT R	RD TO IL RTE 58	· /	_		CONTRAC	T NO. 60V57
ΗL	Downers Grove, IL 60515	PLOT DATE = \$DATE\$	DATE - 08/23/2017	REVISED -		SCALE: N.T.S.	SHEET	OF	SHEETS STA.	TO STA.		ILLINOIS FED.	AID PROJECT	

FILE NAME: \$FILE\$

PTION	UNITS	TOTAL QTY.
L, 2" DIA.	FOOT	2,485
AL INSTALLATION	EACH	2
NO. 14 1C	FOOT	3,675
	EACH	2
	FOOT	1,838
FROM CONDUIT	FOOT	620
	EACH	2
2.5/125, MM12F SM24F	FOOT	3,675
EVEL 2	EACH	2
	-	

EAGLE 5N

BILL OF MATERIALS

DESCRIPTION

NOTES:

- 1. THIS PROJECT INCLUDES THE INSTALLATION OF A NEW LIGHTING SYSTEM AT THE INTERCHANGE OF IL ROUTE 59 AND US ROUTE 20. PROPOSED LIGHTING SHALL BE OWNED AND MAINTAINED BY THE STATE OF ILLINOIS.
- 2. THE CONTRACTOR SHALL REQUEST A FORMAL MAINTENANCE TRANSFER OF EXISTING LIGHTING FROM THE STATE OF ILLINOIS BEFORE ANY LIGHTING WORK, OR OTHERWISE BEGINS.
- 3. THE CONTRACTOR SHALL CONTACT THE ELECTRIC UTILITY COMPANY TO COORDINATE THE ELECTRIC SERVICE WORK. THE FIELD CONTACT PERSON IS SHERON GEETERS AT (847) 608-2400.
- 4. THE QUANTITIES OF RACEWAY WHERE INDICATED ON THESE PLANS ARE APPROXIMATIONS ONLY. THE CONTRACTOR SHALL FIELD VERIFY ALL LENGTHS AND SHALL INSTALL RACEWAYS IN COMPLETE COMPLIANCE WITH THE SPECIFIED REQUIREMENTS.
- 5. THE CONTRACTOR SHALL NOTIFY J.U.L.I.E. TO LOCATE AND MARK/STAKE ALL UNDERGROUND UTILITIES.
- 6. THE CONTRACTOR SHALL VERIFY LOCATIONS OF UNDERGROUND/OVERHEAD UTILITIES PRIOR TO INSTALLATION OF LIGHT POLES AND CONDUITS. IF THERE IS A CONFLICT WITH THE LIGHT POLES/CONDUITS AS SHOWN ON PLANS, THE CONTRACTOR SHALL SUGGEST ALTERNATIVE LOCATIONS AND COORDINATE WITH THE ENGINEER PRIOR TO PERFORMING CONSTRUCTION WORK.
- 7. TRENCHES FOR LIGHTING RACEWAYS SHALL HAVE A MINIMUM DEPTH OF 30".
- 8. LIGHTING SYSTEM INSTALLATION SHALL CONFORM TO THE LATEST IDOT STANDARDS, NEC AND LOCAL CODES.
- 9. ALL ELECTRICAL EQUIPMENT AND PRODUCTS SHALL BE U/L LISTED AND LABELED.
- 10. THE CONTRACTOR SHALL TAKE CARE WHEN INSTALLING UNIT DUCT TO AVOID CONFLICTS WITH EXISTING UNDERGROUND UTILITIES AND TREES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE AS DETERMINED BY THE ENGINEER.
- 11. THE CONTRACTOR SHALL TAKE CARE WHEN INSTALLING LIGHT POLE FOUNDATIONS TO AVOID CONFLICTS WITH UNDERGROUND UTILITIES. WHEN CONFLICTS ARE ENCOUNTERED, THE CONTRACTOR SHALL REQUEST TO RELOCATE THE FOUNDATION. THE NEW LOCATION SHALL BE APPROVED BY THE ENGINEER PRIOR TO INSTALLATION.

ELECTRIC SERVICE INSTALLATION ELECTRIC UTILITY SERVICE CONNECTION UNDERGROUND CONDUIT, GALVANIZED STEEL, 4" DIA. CONDUIT ATTACHED TO STRUCTURE, 1" DIA., PVC COATED GALVANIZED JUNCTION BOX, STAINLESS STEEL, ATTACHED TO STRUCTURE, 6" X 6" JUNCTION BOX, STAINLESS STEEL, ATTACHED TO STRUCTURE, 12" X 1 JUNCTION BOX, STAINLESS STEEL, ATTACHED TO STRUCTURE, 16" X 1 UNIT DUCT, 600V, 3-1C NO. 10, 1/C NO. 10 GROUND, (XLP-TYPE USE) UNIT DUCT, 600V, 3-1C NO.2, 1/C NO.4 GROUND, (XLP-TYPE USE), ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 1/C NO. 10 ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 1/C NO. 4 ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 1/C 350MCM ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYE USE) 3-1/C NO. 2 AERIAL CABLE, 3-1/C NO. 2 WITH MESSENGER WIRE LIGHT POLE, ALUMINUM, 47.5FT. M.H. 15FT. DAVIT ARM LIGHT POLE, WOOD, 60 FOOT, CLASS 4, WITH 15FT MAST ARM LIGHT POLE, WOOD, 60 FOOT, CLASS 4, WITH TWO 15FT MAST ARMS LIGHT POLE FOUNDATION, 24" DIAMETER BREAKAWAY DEVICE, TRANSFORMER BASE, 15 INCH BOLT CIRCLE REMOVAL OF TEMPORARY LIGHTING UNIT REMOVAL OF LIGHTING UNIT, SALVAGE REMOVAL OF POLE FOUNDATION REMOVAL OF LIGHTING CONTROLLER REMOVAL OF LIGHTING CONTROLLER FOUNDATION ELECTRIC CABLE ASSEMBLY IN CONDUIT, 600 (XLP-TYPE TC) 2/C NO. LUMINAIRE, LED, HORIZONTAL MOUNT, TYPE C TEMPORARY LUMINAIRE, HIGH PRESSURE SODIUM VAPOR, HORIZONTAL M LUMINAIRE, UNDERPASS, LED, TYPE D COMBINATION LIGHTING CONTROLLER LIGHTING CONTROLLER, BASE MOUNTED, 480 VOLT, 200 AMP (DUAL), LUMINAIRE SAFETY CABLE ASSEMBLY MAINTENANCE OF LIGHTING SYSTEM

LEGEND

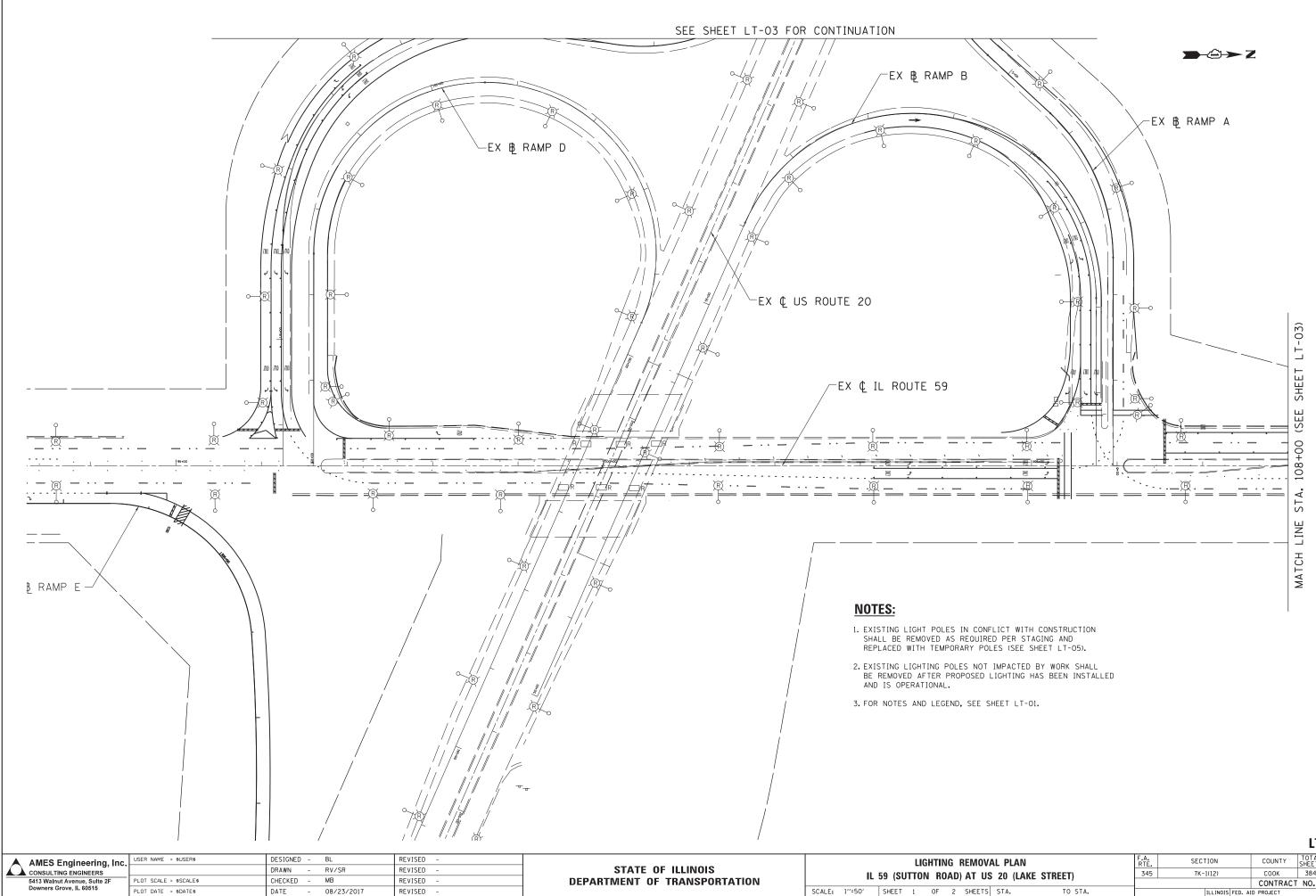
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AMES Engineering. Inc.	USER NAME = SAhsan	DESIGNED - BL	REVISED -				TES BILL	I OF MATERIALS A		F.A. RTF.	SECTION	COUNTY	TOTAL	SHEET NO.
CONSULTING ENGINEERS			STATE OF ILLINOIS	LIGHTING NOTES, BILL OF MATERIALS AND LEGEND IL 59 (SUTTON ROAD) AT US 20 (LAKE STREET)				345	7K-1(12)	СООК	384	236		
5413 Walnut Avenue, Sulte 2F Downers Grove, IL 60515	PLOT SCALE = 100.0000 ' / 10.	CHECKED - MB	REVISED -	DEPARTMENT OF TRANSPORTATION		IL 39 (501		AD) AT US ZU (LAK	,	_		CONTRAC	T NO. 6	50V57
Downers Crove, in 00015	PLOT DATE = 8/22/2017	DATE - 08/23/2017	REVISED -		SCALE:	SHEET	OF	SHEETS STA.	TO STA.		ILLINOIS FED. A	ID PROJECT		

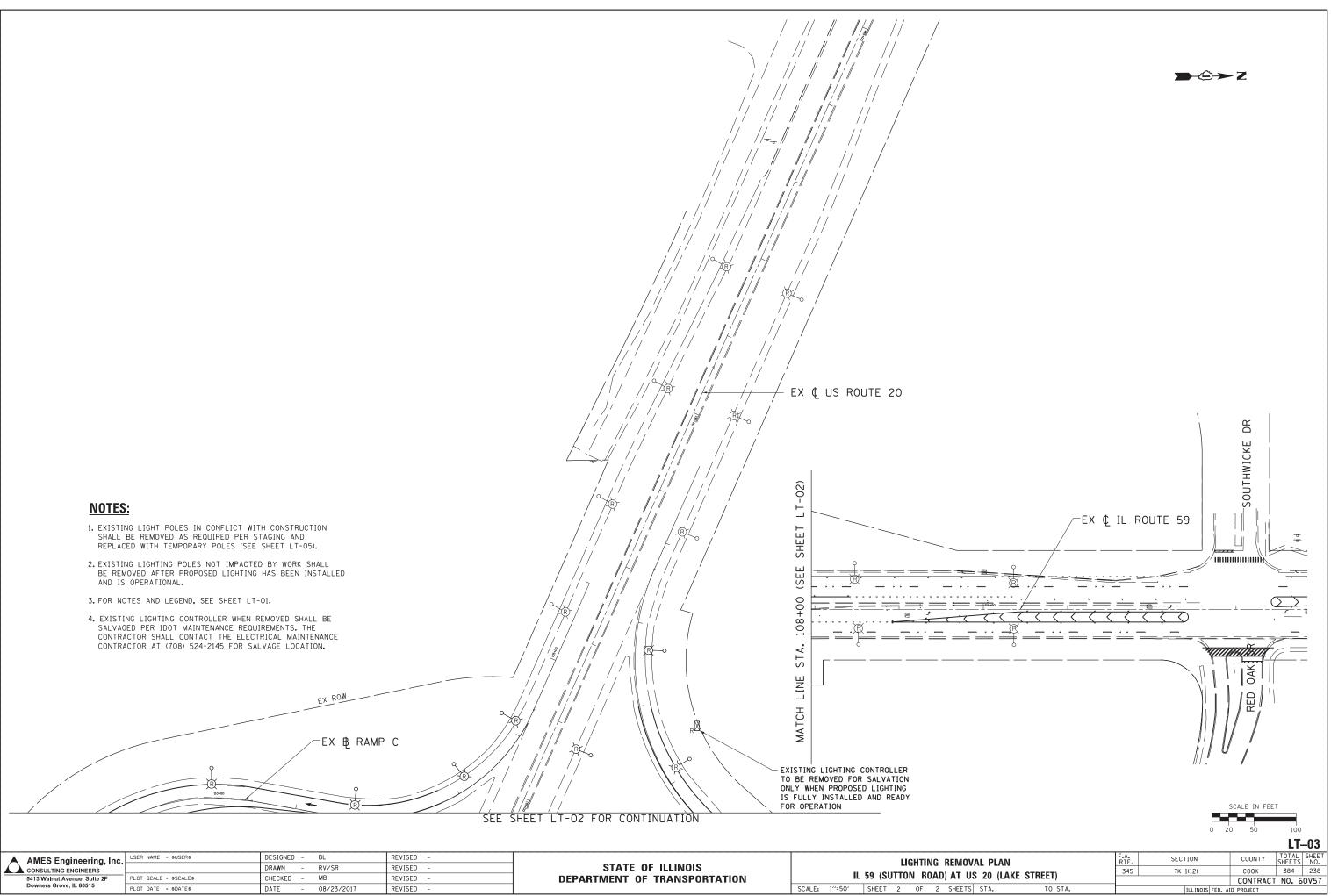
	UNIT	OUANTITY
	EACH	1
	L SUM	1
	FOOT	1138
) STEEL	FOOT	354
′ X 4″	EACH	9
IO" X 6"	EACH	2
l4" X 6"	EACH	2
, 3/4" DIA. POLYETHYLENE	FOOT	895
1 1/4" DIA. POLYETHYLENE	FOOT	16481
	FOOT	1678
	FOOT	290
	FOOT	150
	FOOT	290
	FOOT	4730
	EACH	79
	EACH	22
	EACH	2
	FOOT	790
	EACH	79
	EACH	24
	EACH	75
	EACH	67
	EACH	1
	EACH	1
10 AND 1C NO. 10 GROUND	FOOT	470
	EACH	83
AOUNT, 400 WATT	EACH	26
	EACH	9
	EACH	2
RADIO SCADA	EACH	1
	EACH	83
	CAL MO	24

EXISTING UNDERPASS LUMINAIRES TO BE REMOVED
15 FT MAST ARM, LED LUMINAIRE GROUND ROD 5/8" X 10 FT
PROPOSED COMBINATION SIGNAL/LIGHT POLE 45 FT MH.
EXISTING COMBINATION SIGNAL/LIGHT POLE TO BE REMOVED
ELECTRIC CABLE IN CONDULT 4" DIA. 3-1/C NO. 350 MCM
RIGID GALVANIZED STEEL CONDUIT
EXISTING LIGHTING CONTROLLER TO BE REMOVED
PROPOSED LIGHTING CONTROLLER "AC" 240/480V, 1 PHASE, 3 WIRE 200 AMP, PAD MOUNTED
ComEd ELECTRIC SERVICE 240/480V, SINGLE PHASE 3 WIRE
 - AERIAL CABLE, 3-1/C NO. 2 WITH MESSENGER WIRE
UNIT DUCT, 600V, 3-1/C #2, 1/C #4 GROUND (XLP-TYPE USE) 1 1/4" DIA. POLYETHYLENE
TEMPORARY WOOD POLE, 50 FT. MH, 15 FT. MAST ARM WITH 400W, 240V MCIII HPS LUMINAIRE
TEMPORARY WOOD POLE, 50 FT. MH, 2-15 FT. MAST ARMS, 400W, 240V MCIII HPS LUMINAIRES
EXISTING LIGHTING UNIT TO BE REMOVED
PROPOSED LIGHTING UNIT, 47.5 FT. MH, 15 FT. DAVIT ARM, 240V LED LUMINAIRE TYPE C, WITH BREAKAWAY DEVICE

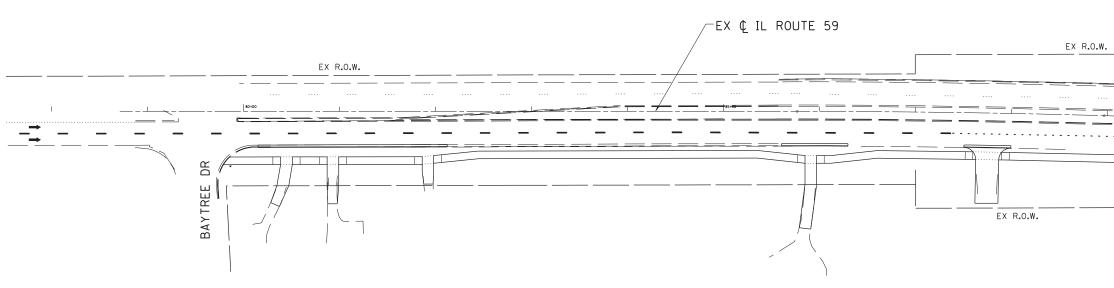


FILE NAME: \$FILE\$

						02
)V/	AL PLAN	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
us	20 (LAKE STREET)	345	7K-1(12)	СООК	384	237
				CONTRACT	NO. 6	0V57
TS	STA. TO STA.		ILLINOIS FED. AI	D PROJECT		



AMES Engineering, Inc.	USER NAME = \$USER\$	DESIGNED - BL DRAWN - RV/	- V/SR	REVISED - REVISED -	STATE OF ILLINOIS				
5413 Walnut Avenue, Sulte 2F	PLOT SCALE = \$SCALE\$	CHECKED - MB	3	REVISED -	DEPARTMENT OF TRANSPORTATION	(IL	59 (SUTTO	N ROAD)	AI 05
Downers Grove, IL 60515	PLOT DATE = \$DATE\$	DATE - 08/	3/23/2017	REVISED -		SCALE: 1''=50'	SHEET 2	0F 2	SHEETS

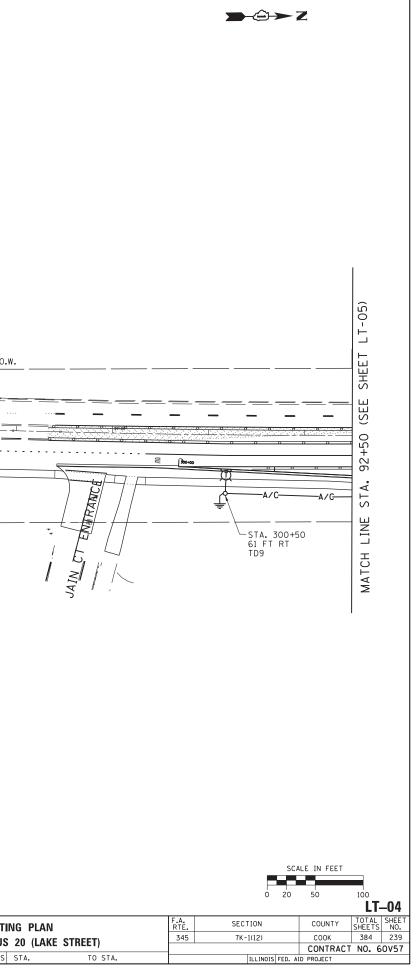


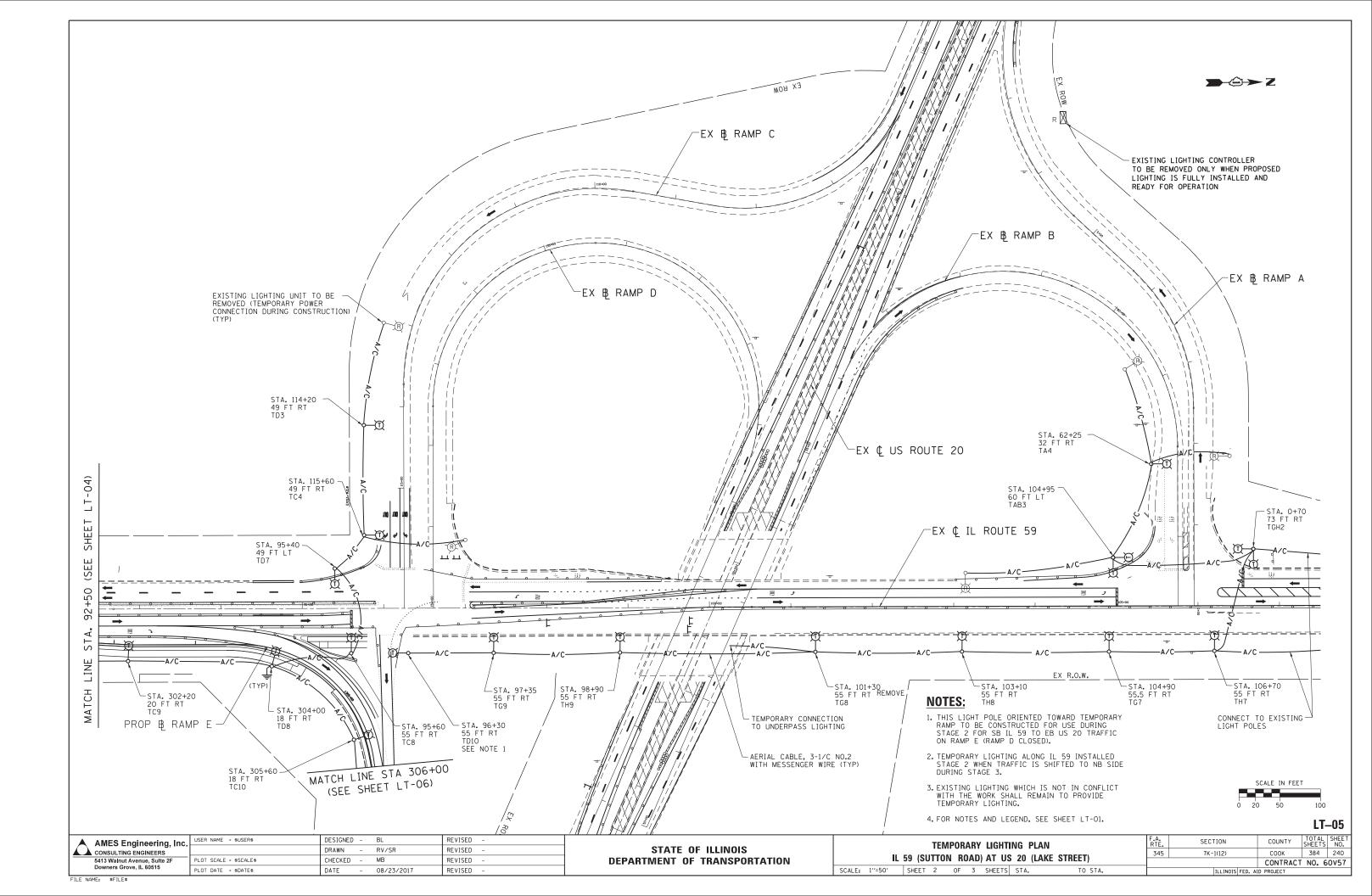
NOTES:

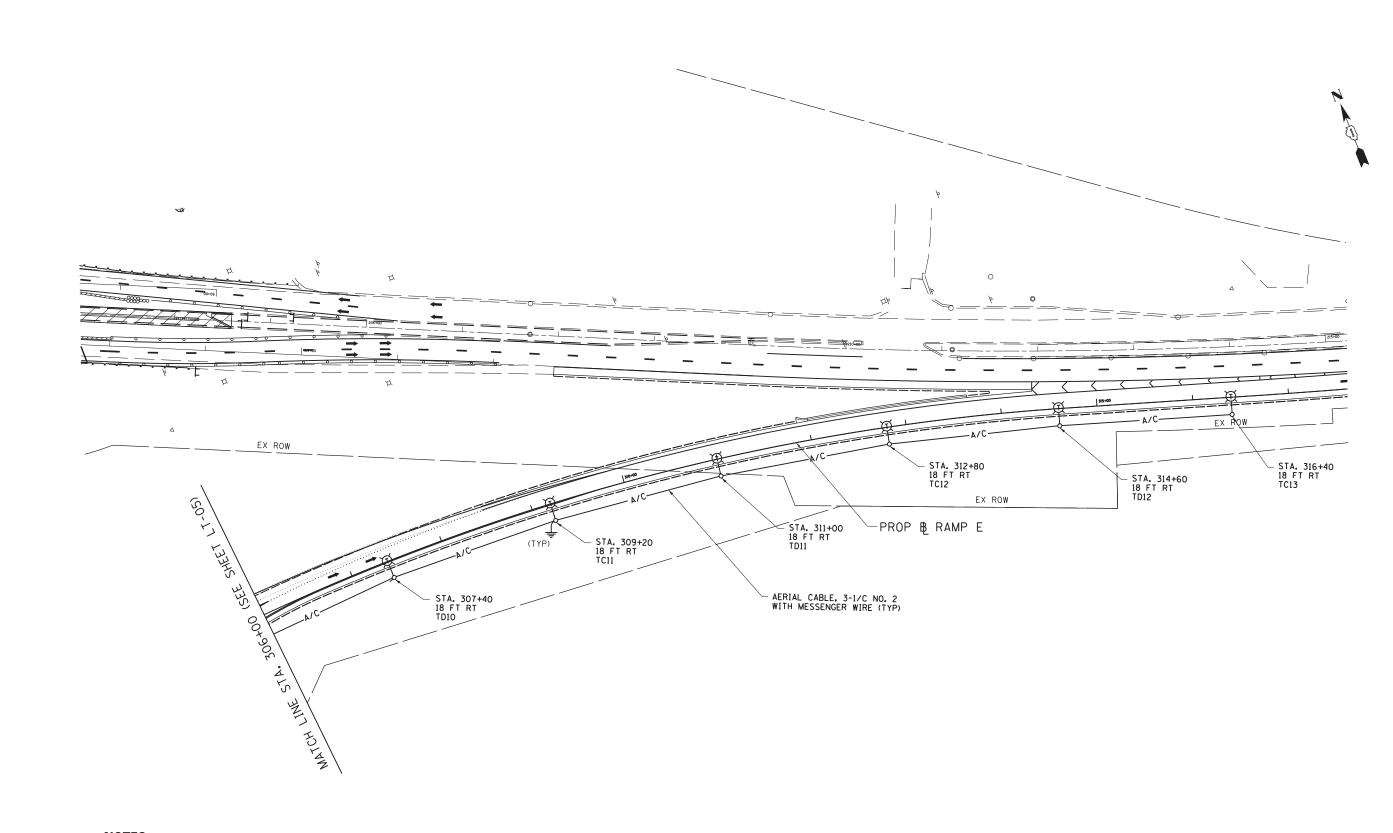
1. FOR NOTES AND LEGEND, SEE SHEET LT-01.

AMES Engineering, Inc.	USER NAME = \$USER\$	DESIGNED -	BL	REVISED -		1	TEMPORARY LIGHTING
CONSULTING ENGINEERS		DRAWN -	RV/SR	REVISED -	STATE OF ILLINOIS	1	
5413 Walnut Avenue, Sulte 2F	PLOT SCALE = \$SCALE\$	CHECKED -	MB	REVISED -	DEPARTMENT OF TRANSPORTATION	í IL	59 (SUTTON ROAD) AT US 2
Downers Grove, IL 60515	PLOT DATE = \$DATE\$	DATE -	08/23/2017	REVISED -		SCALE: 1"=50'	SHEET 1 OF 3 SHEETS S
					•		

FILE NAME: \$FILE\$





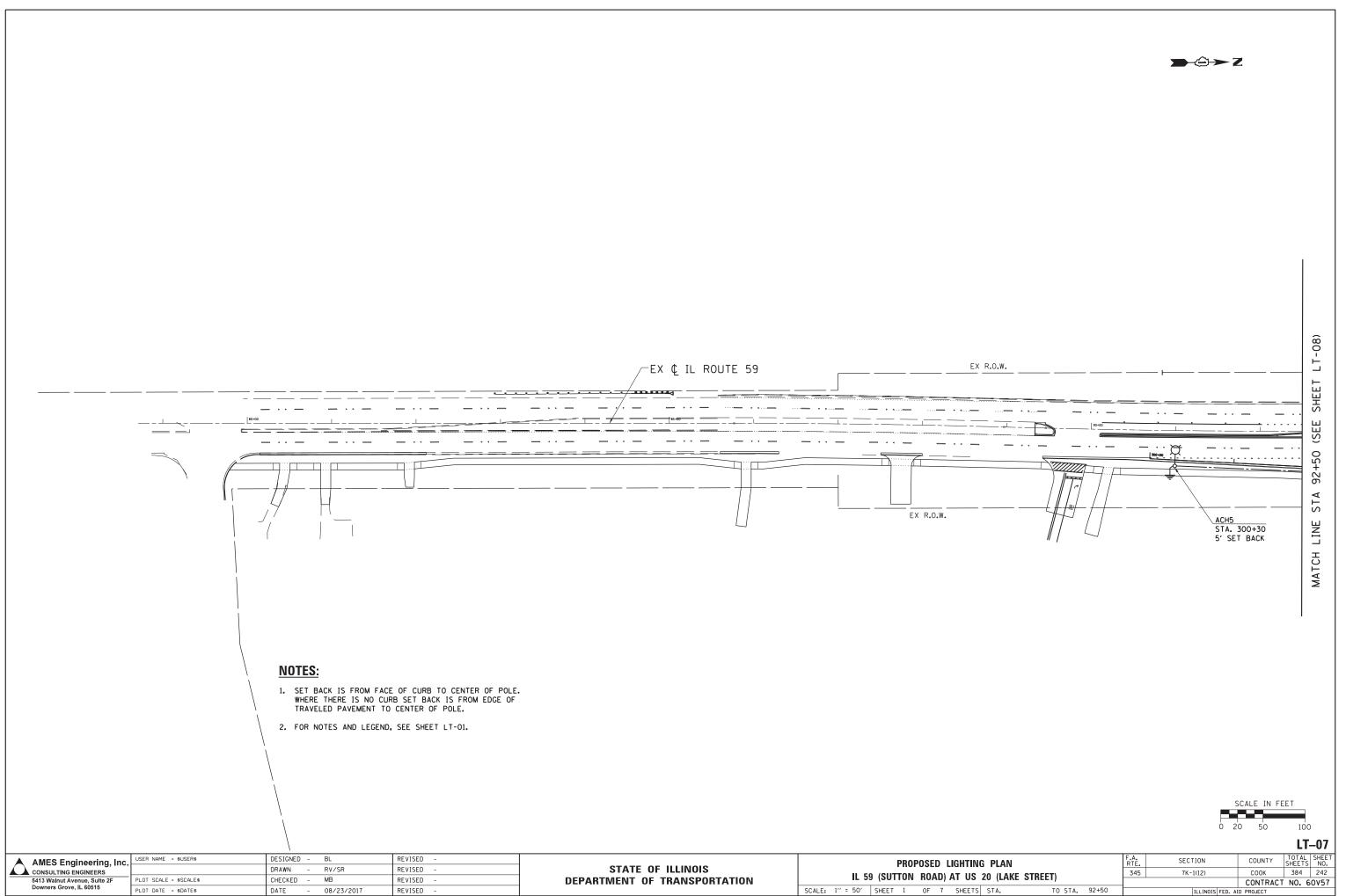


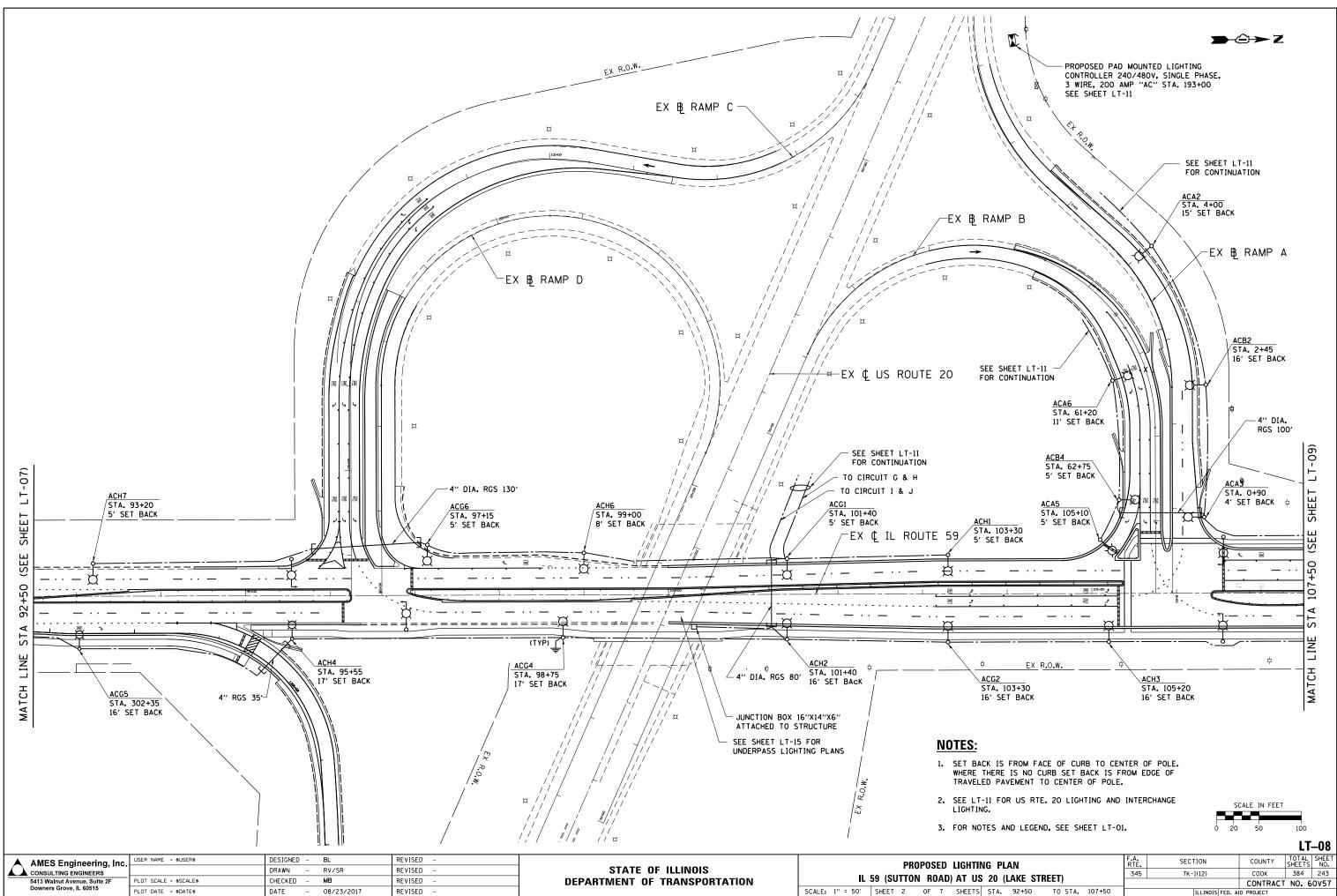
NOTES:

1. FOR NOTES AND LEGEND, SEE SHEET LT-01.

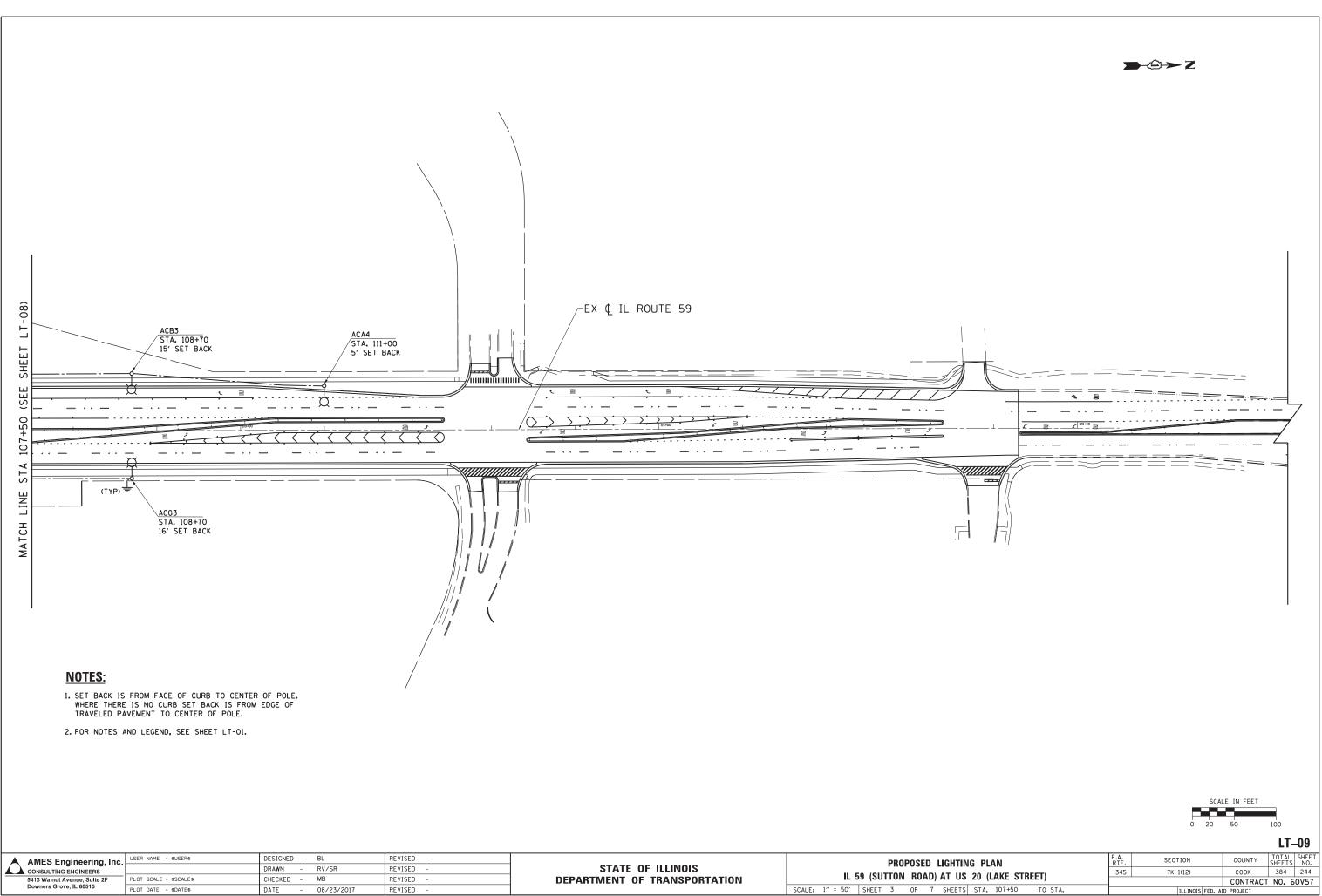
AMES Engineering, Inc. USER NAME = \$USER\$		DESIGNED - BL	REVISED -			TEMPORARY LIGHTING LAYOUT RAM	PE	F.A. RTE.	SECTION	COUNTY	TOTAL SHEET SHEETS NO.
CONSULTING ENGINEERS		DRAWN - RV/SR	REVISED -	STATE OF ILLINOIS		IL 59 (SUTTON ROAD) AT US 20 (LAKE STREET)		345	7K-1(12)	СООК	384 241
5413 Walnut Avenue, Sulte 2F	PLOT SCALE = \$SCALE\$	CHECKED – MB	REVISED -	DEPARTMENT OF TRANSPORTATION						CONTRAC	CT NO. 60V57
Downers Grove, IL 60515	PLOT DATE = \$DATE\$	DATE - 08/23/2017	REVISED -		SCALE: 1"=50'	SHEET 3 OF 3 SHEETS STA.	TO STA.		ILLINOIS FEE	D. AID PROJECT	

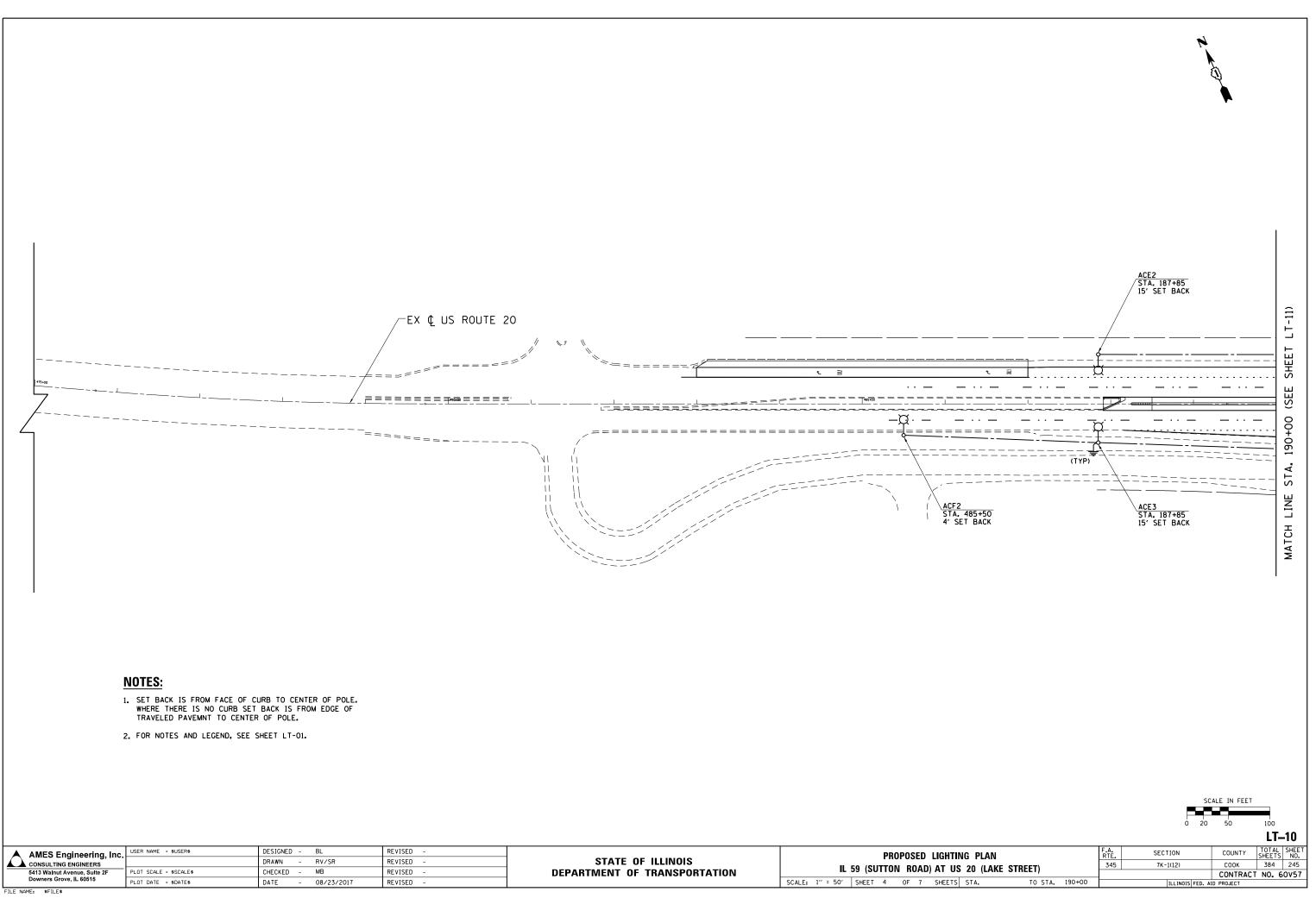




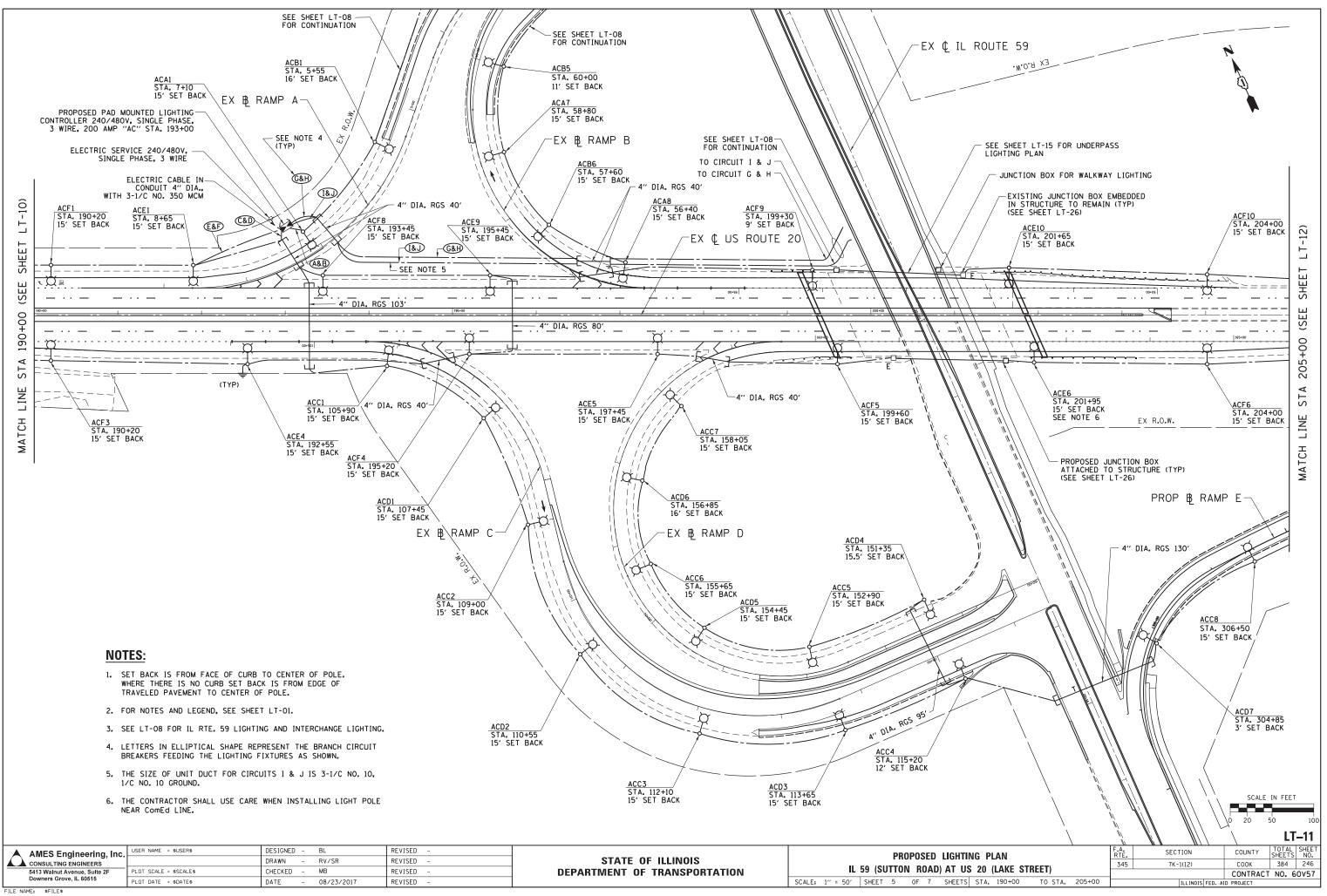


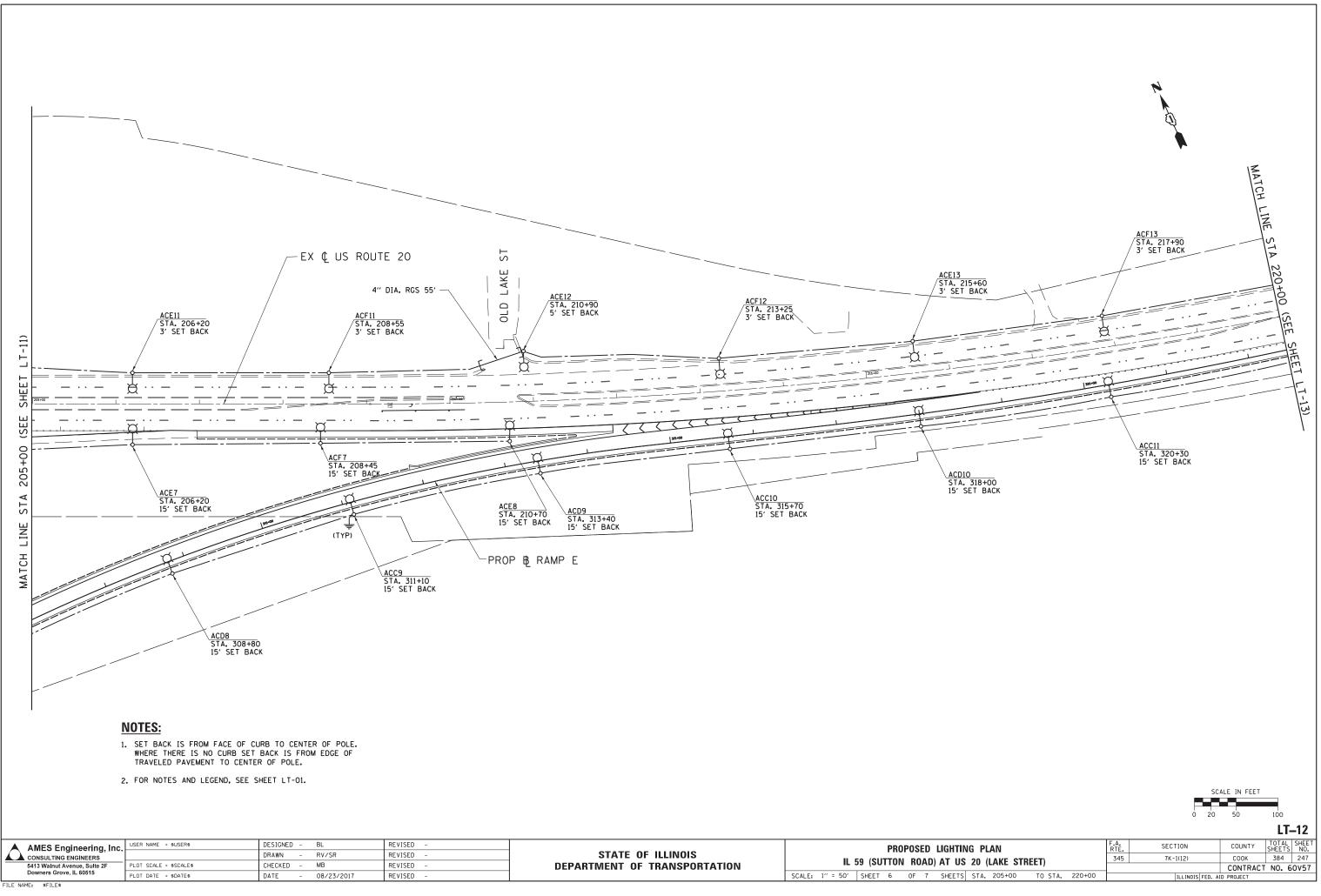
FILE NAME: \$FILE\$

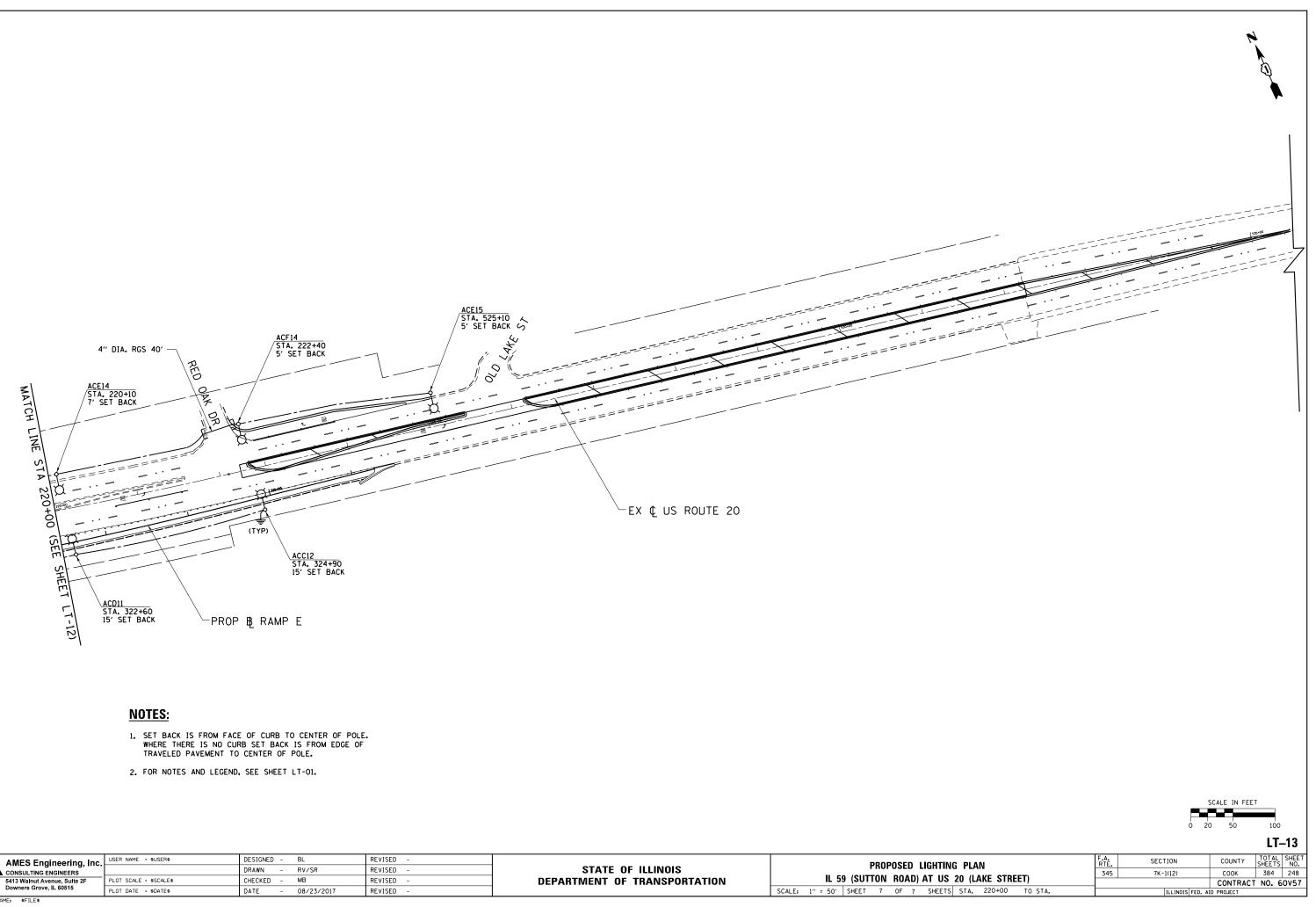




Ī	AMES Engineering, Inc.	USER NAME = \$USER\$	DESIGNED -	BL	REVISED -				PROPOS		TING
	CONSULTING ENGINEERS		DRAWN -	RV/SR	REVISED -	STATE OF ILLINOIS					
		PLOT SCALE = \$SCALE\$	CHECKED -	MB	REVISED -	DEPARTMENT OF TRANSPORTATION	(IL '	59 (SUT	ION RU	DAD) AT	US 21
	Downers Grove, IL 60515	PLOT DATE = \$DATE\$	DATE -	08/23/2017	REVISED -		SCALE: 1" = 50'	SHEET 4	4 OF	7 SHEE	TS ST

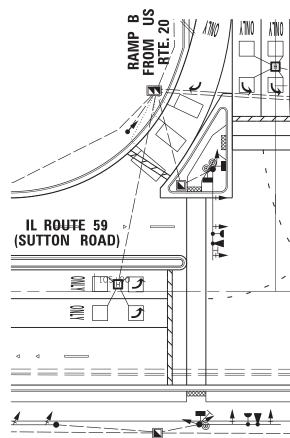






L						
	AMES Engineering, Inc.	USER NAME = \$USER\$	DESIGNED - BL	REVISED -		PROPOSED LIGHTING
	CONSULTING ENGINEERS		DRAWN - RV/SR	REVISED -	STATE OF ILLINOIS	
	5413 Walnut Avenue, Sulte 2F	PLOT SCALE = \$SCALE\$	CHECKED – MB	REVISED -	DEPARTMENT OF TRANSPORTATION	IL 59 (SUTTON ROAD) AT US 20
	Downers Grove, IL 60515	PLOT DATE = \$DATE\$	DATE - 08/23/2017	REVISED -		SCALE: 1" = 50' SHEET 7 OF 7 SHEETS ST
					•	

RAMP D To US RTE. 20 RAMP C From US RTE. 20 X1N0 11NO 1 A TNO V 4 IDOT COMBO LIGHTING CONTROLLER LOCATED INSIDE TRAFFIC CABINET (TYP) È -IL ROUTE 59 1 -**~**•-<1 <1 111 · — — — — — — — — IDOT COMBINATION SIGNAL/ LIGHT POLE 45 FT MOUNTING HEIGHT, 15 FT MAST ARM. 120V (LINE TO NEUTRAL) LED LUMINAIRES, WITH 10 AMP FUSE (TYP) SOUTH RAMP

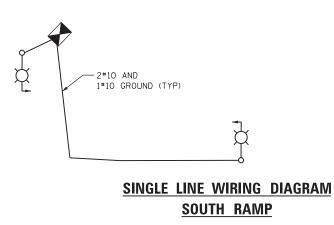


N

NOTES:

- 1. THE COMBO LIGHTING CABLE AND SIGNAL CABLES WILL BE IN SHARED CONDUIT.
- LUMINAIRES SHOWN ON THIS SHEET SHALL BE POWERED FROM IDOT TRAFFIC CONTROLLERS. SEE SHEET LT-30.
- 3. SEE TRAFFIC PLANS FOR LOCATION OF COMBO POLES, HANDHOLES AND CONDUITS.

IDOT COMBO LIGHTING SCHEDULE OF QUAN	NTITIES	
DESCRIPTION	UNIT	QNTY.
LUMINAIRE LED HORIZONTAL MOUNT, TYPE C	EACH	4
COMBINATION LIGHTING CONTROLLER	EACH	2
LUMINAIRE SAFETY CABLE ASSEMBLY	EACH	4
ELECTRICAL CABLE ASSEMBLY IN CONDUIT, 600V, (XLP TYPE TC) 2C NO. 10 AND 1C NO. 10 GROUND	FOOT	470

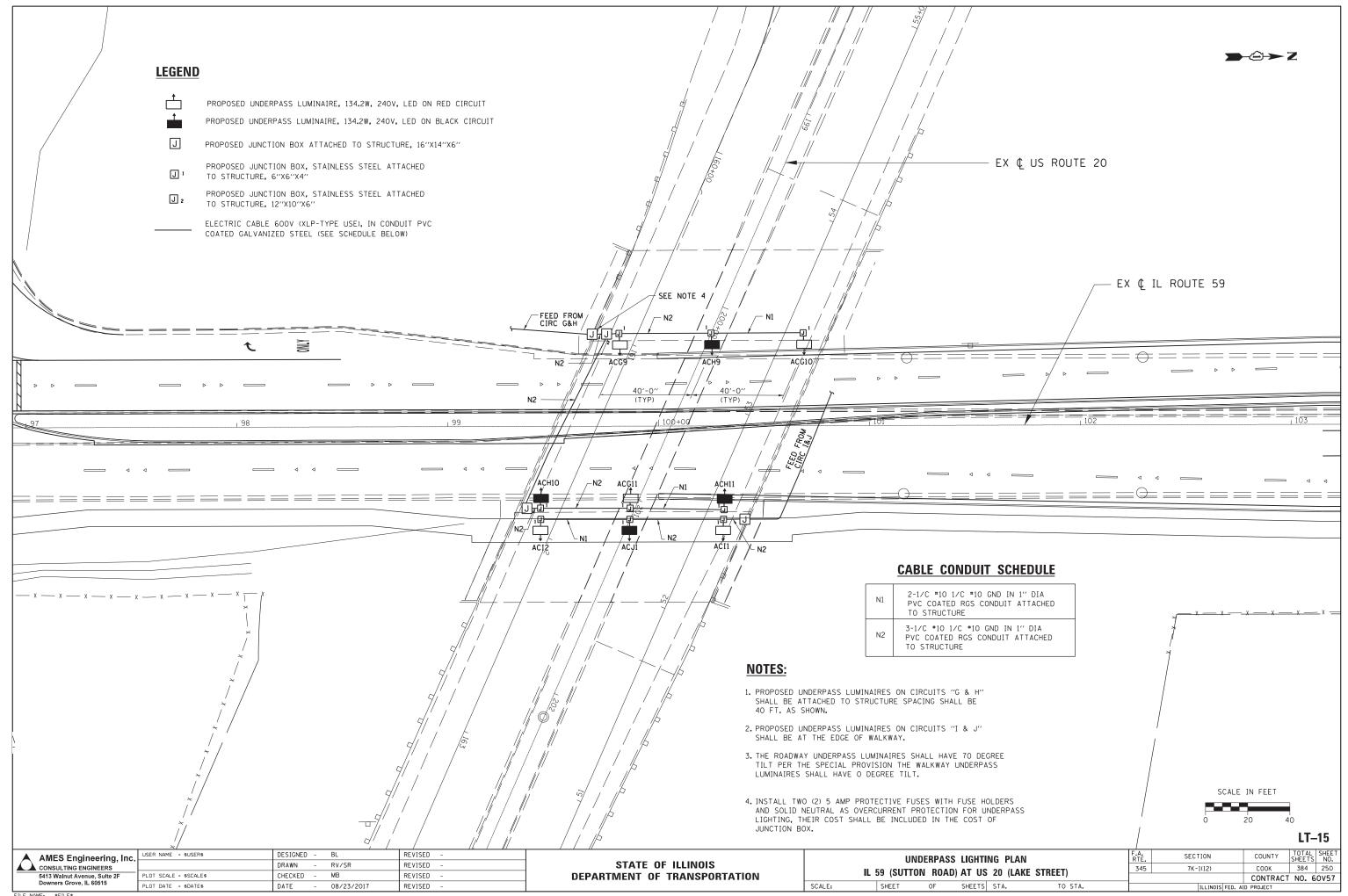


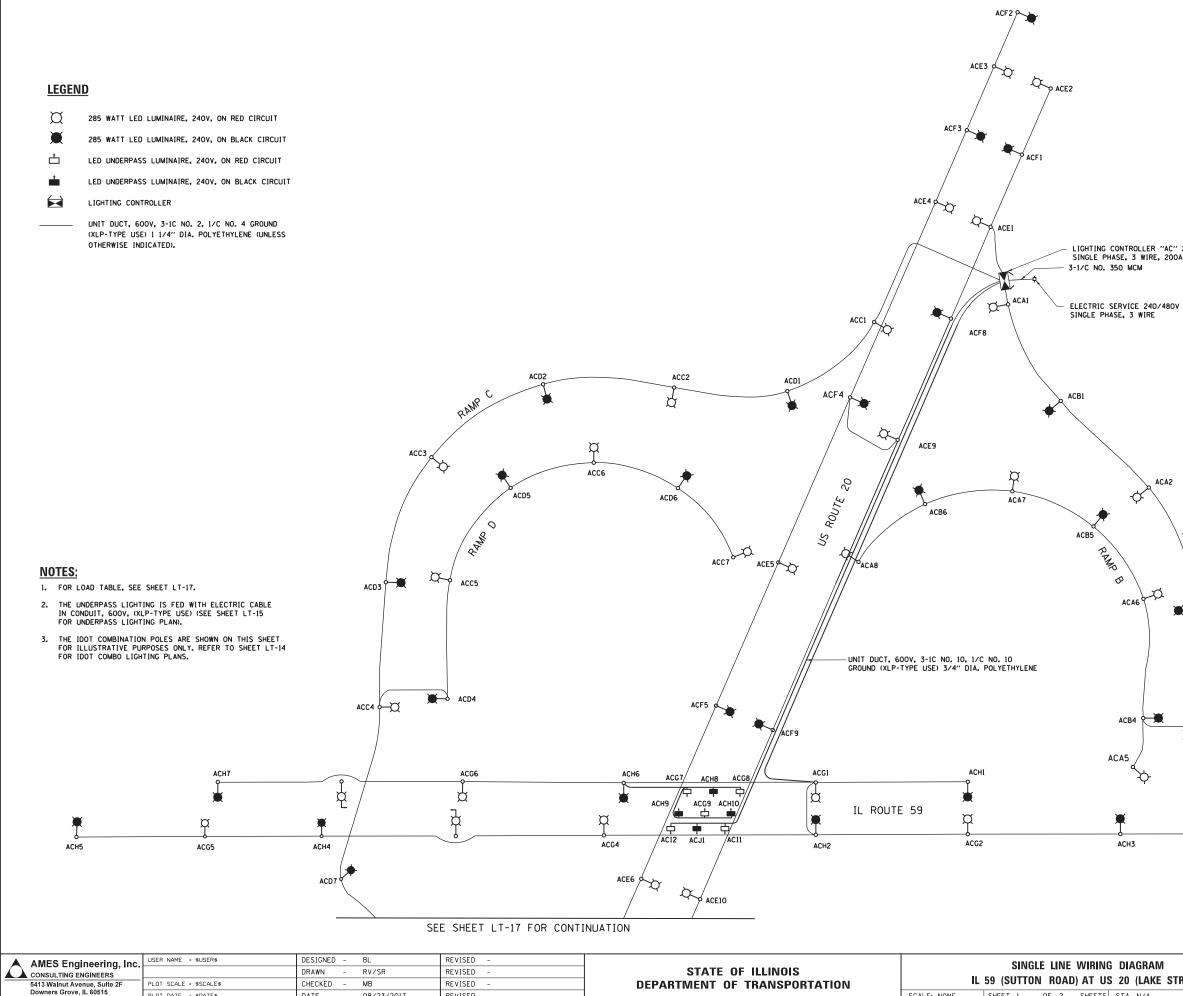
<u>Single Lir</u> N

AMES Engineering, Inc.	USER NAME = \$USER\$	DESIGNED -	BL	REVISED -		PROPOSED	LIGHTING	COMBINATION P	POLE PLANS	F.A. RTE.	SECTION	COUNTY	TOTAL SHEET SHEETS NO.
CONSULTING ENGINEERS		DRAWN -	RV/SR	REVISED -	STATE OF ILLINOIS	L 59 (SUTTON ROAD) AT US 20 (LAKE STREET) NORTH & SOUTH RAMPS		345	7K-1(12)	СООК	384 249		
5413 Walnut Avenue, Sulte 2F	PLOT SCALE = \$SCALE\$	CHECKED -	MB	REVISED -	DEPARTMENT OF TRANSPORTATION	IL 59 (SUTTON ROAD) A	41 05 20	(LAKE SINCEI) IN	UNIN & SUUIN NAMPS			CONTRAC	T NO. 60V57
Downers Grove, IL 60515	PLOT DATE = \$DATE\$	DATE -	08/23/2017	REVISED -		SCALE: 1"=20' SHEET	OF	SHEETS STA.	TO STA.		ILLINOIS FED. A	ID PROJECT	

FILE NAME: \$FILE\$

		⋑−⋳⋺≻⋜		
		0 20' SCALE 1''= 20'	40'	
NORTH RAMP			HTING CABI CABLE ASS 10 GROUNI T, SEE TR	EMBLY, D ROUTED AFFIC
2*10 AND 1*10 GROUND (TYP) INE WIRING DIAGRAM NORTH RAMP				LT-14
INATION POLE PLANS	F.A. RTE.	SECTION	COUNTY	TOTAL SHEET SHEETS NO.





PLOT DATE = \$DATE\$

DATE

-

08/23/2017

REVISED

				LT	-16
SINGLE LINE WIRING DIAGRAM	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
IL 59 (SUTTON ROAD) AT US 20 (LAKE STREET)	345	7K-1(12)	СООК	384	251
			CONTRACT	NO. 6	0v57
SHEET 1 OF 2 SHEETS STA. N/A TO STA. N/A		ILLINOIS FED. AI	D PROJECT		

	ACA3		
ACA5	, , ,	ACB3	
ACH3		ACG3	

- LIGHTING CONTROLLER "AC" 240/480V SINGLE PHASE, 3 WIRE, 200A

ACA2

Ø

X-

ACB2

-0

Ф

SCALE: NONE

ACA6

NOT TO SCALE

>-û→ Z

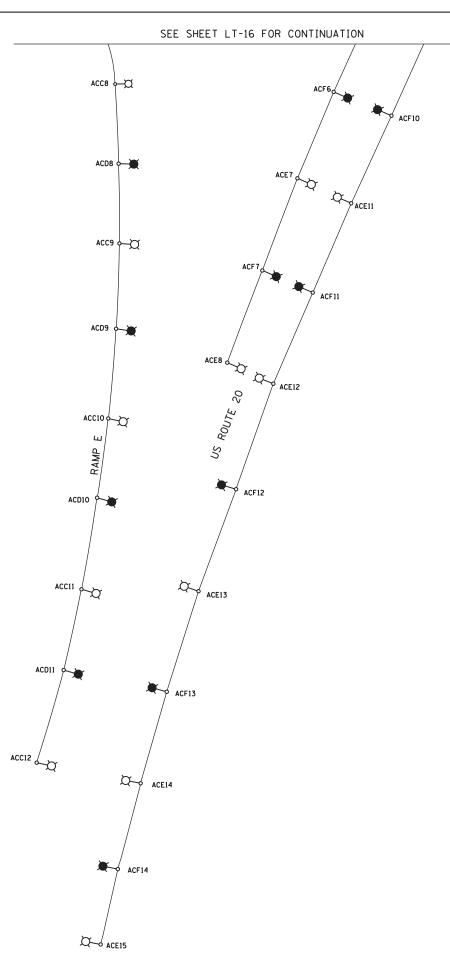
PANEL SCHEDULE AND LOAD TABULATON

LIGHTING CONTROLLER "AC" 240/480V, SINGLE PHASE, 3 WIRE, 200A

ROADWAY LUMINAIRE 285W, 1.0A UNDERPASS LUMINAIRE 134.2W, 0.62A

CIRCUIT	ROADWAY LUMINAIRES	UNDERPASS LUMINAIRES	TOTAL AMPS	TOTAL WATTS
Α	8	0	8.0	2,280
В	6	0	6.0	1,710
С	12	0	12.0	3,420
D	11	0	11.0	3,135
Ε	15	0	15.0	4,275
F	14	0	14.0	3,990
G	6	3	8.0	2,112
н	7	3	9.0	2,397
I	0	2	1.2	268
J	0	1	0.6	134
SUB TOTAL FUTURE GROWTH 20%	79	9	85.0 17.0	23.730 4.750
TOTAL			102.0	28.480

RATING OF CONTROLLER = 200 AMPS, ALLOWED 160 AMPS



NOTES:

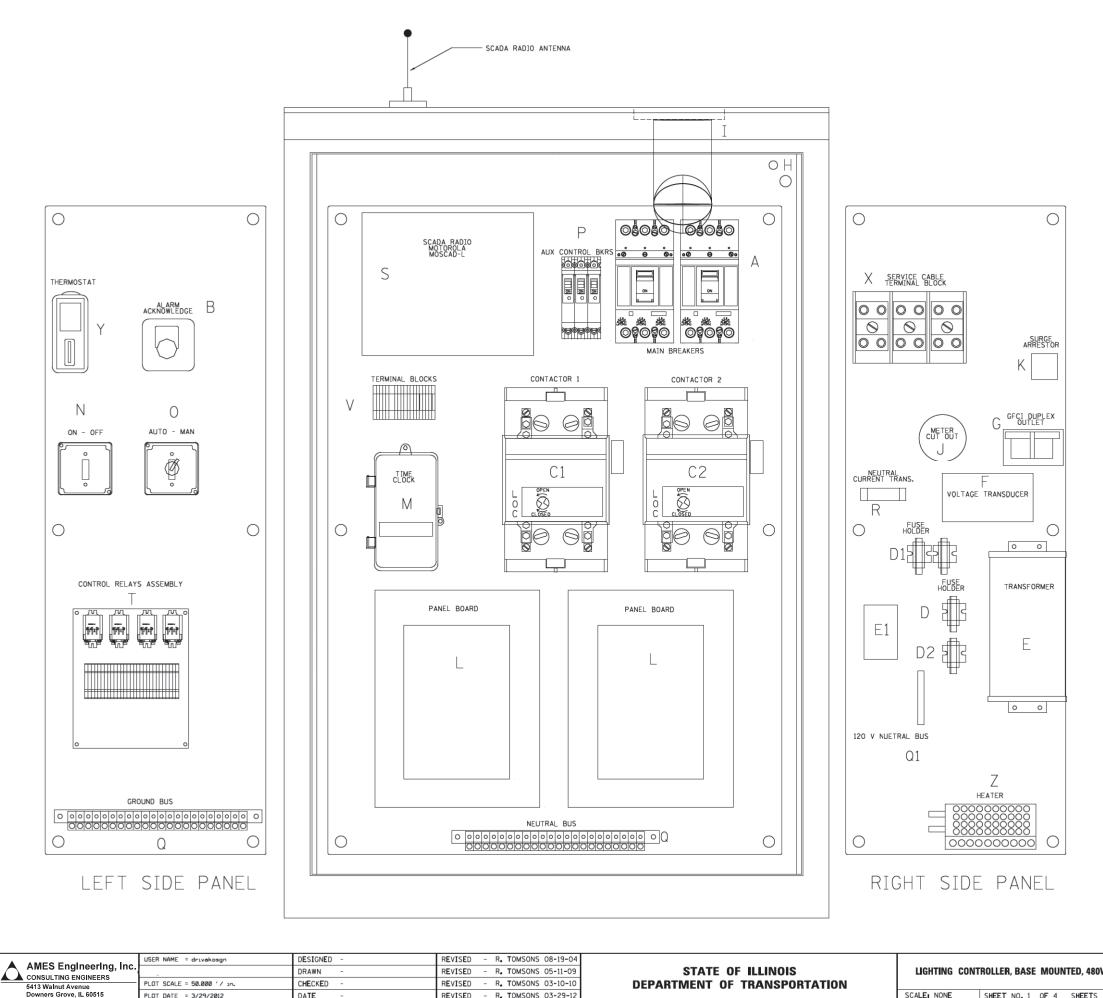
1. FOR NOTES AND LEGEND, SEE SHEET LT-16.

AMES Engineering, Inc.	USER NAME = \$USER\$	DESIGNED - BL	REVISED	D -		SINGLE LINE WIRING DIAGRAM		F.A. RTE.	SECTION	COUNTY TOTAL	AL SHEET	
CONSULTING ENGINEERS		DRAWN - RV/SR	REVISED	D -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION SCA	IL 59 (SUTTON ROAD) AT US 20 (LAKE STREET)			345	7K-1(12)	СООК 384	4 252
5413 Walnut Avenue, Sulte 2F	PLOT SCALE = \$SCALE\$	CHECKED - MB	REVISED	.D –		IL 55 (SOTION NOAD) AT 05 20 (LAKE STREET)		_		CONTRACT NO.	. 60V57	
Downers Grove, IL 60515	PLOT DATE = \$DATE\$	DATE - 08/23/	2017 REVISED	.D -		SCALE: NONE	SHEET 2 OF 2 SHEETS STA. N/A	TO STA. N/A	ILLINOIS FED. AID PR		ID PROJECT	



NOT TO SCALE

LT–17



REVISED - R. TOMSONS 03-29-12

PLOT DATE = 3/29/2012

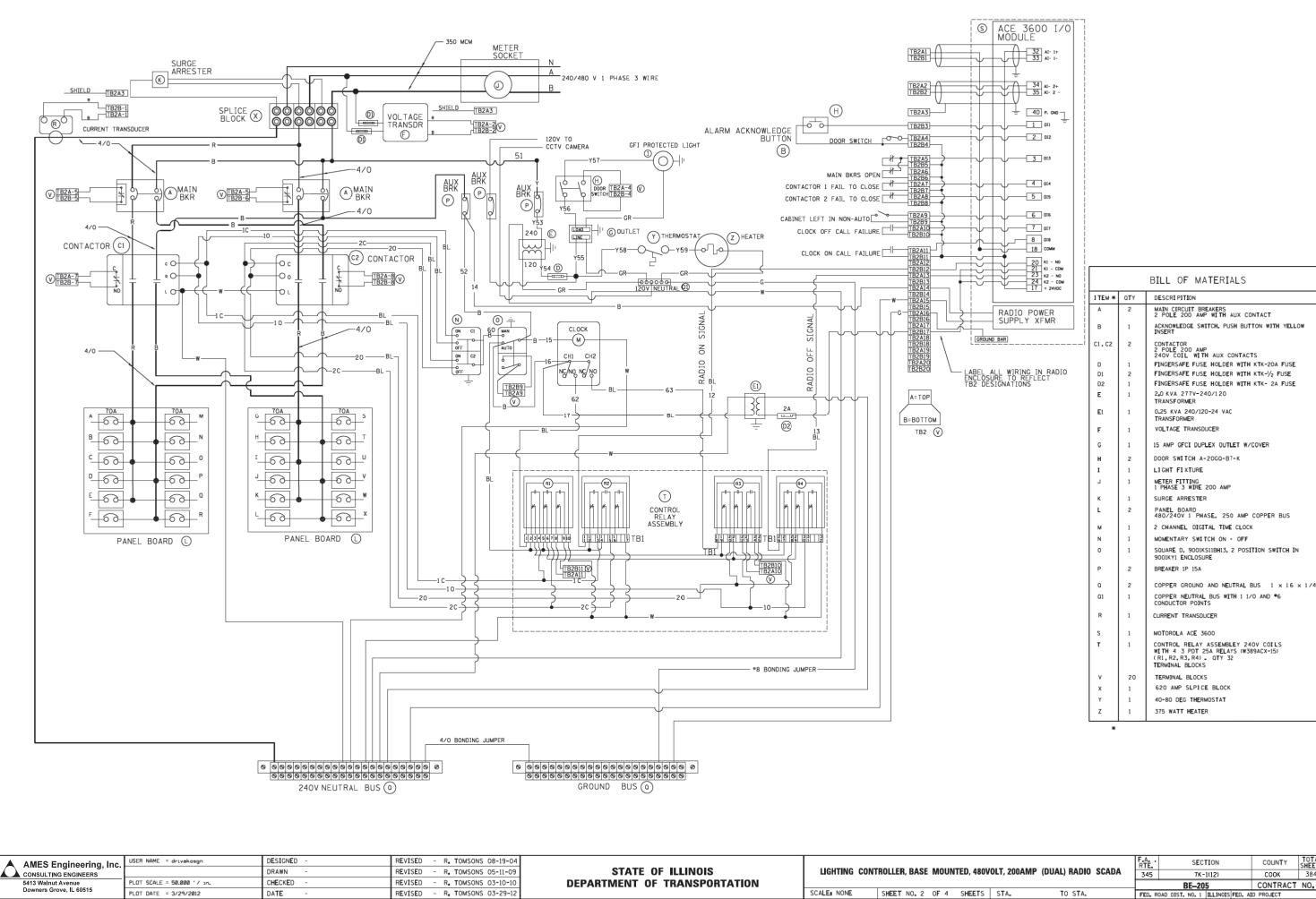
DATE

SCALE NONE SHEET NO. 1 OF 4 SHEETS

	BILL OF MATERIALS									
I TEM	QTY	DESCRI PITION								
А	2	MAIN CIRCUIT BREAKERS 2 POLE 200 AMP WITH AUX CONTACT								
В	1	ACKNOWLEDGE SWITCH, PUSH BUTTON WITH YELLOW								
C1,C2*	2	CONTACTOR 2 POLE 200 AMP 240V COIL WITH AUX CONTACTS								
D	1	FINGERSAFE FUSE HOLDER WITH KTK-20 FUSE								
D1	2	FINGERSAFE FUSE HOLDER WITH KTK-1/2 FUSE								
D2	1	FINGERSAFE FUSE HOLDER WITH KTK-2A FUSE								
E	1	2.0 KVA 277V-240/120 TRANSFORMER								
E1	1	0.25 KVA 240/120 - 24 VAC TRANSFORMER								
F	1	VOLTAGE TRANSDUCER WITH COVERED TERMINALS								
G	1	20 AMP GFCI DUPLEX OUTLET W/COVER								
н	2	DOOR SWITCH								
I	1	LIGHT FIXTURE								
J	1	METER FITTING 1 PHASE 3 WIRE 200 AMP								
к	1	SURGE ARRESTER								
L	2	PANEL BOARD 480/240V 1 PHASE, 250 AMP COPPER BUS								
м	1	2 CHANNEL DIGITAL TIME CLOCK								
N	1	MOMENTARY SWITCH ON - OFF								
0	1	SQUARE D, 9001KS11BH13, 2 POSITION SWITCH IN 9001KY1 ENCLOSURE OR APPROVED EQUAL								
Р	2	BREAKER 1P 15A								
۵	2	COPPER GROUND AND NEUTRAL BUS $1 \times 16 \times 1/4$								
Q1	1	COPPER NEUTRAL BUS WITH 1 #6 AND 8 #12 CONDUCTOR POINTS								
R	1	CURRENT TRANSDUCER								
s	1	MOTOROLA MOSCAD-L RADIO, 240 V								
Τ*	1	CONTROL RELAY ASSEMBLEY 240V COILS WITH 4 3 PDT 25A RELAYS (W389ACX-15) (R1,R2,R3,R4). OTY 32 TERMINAL BLOCKS								
v	20	TERMINAL BLOCKS								
X *	1	620 AMP SLPICE BLOCK								
Y	1	40-80 DEG THERMOSTAT								
Z	1	375 WATT HEATER								
L	1	SIS WAIL REALER								

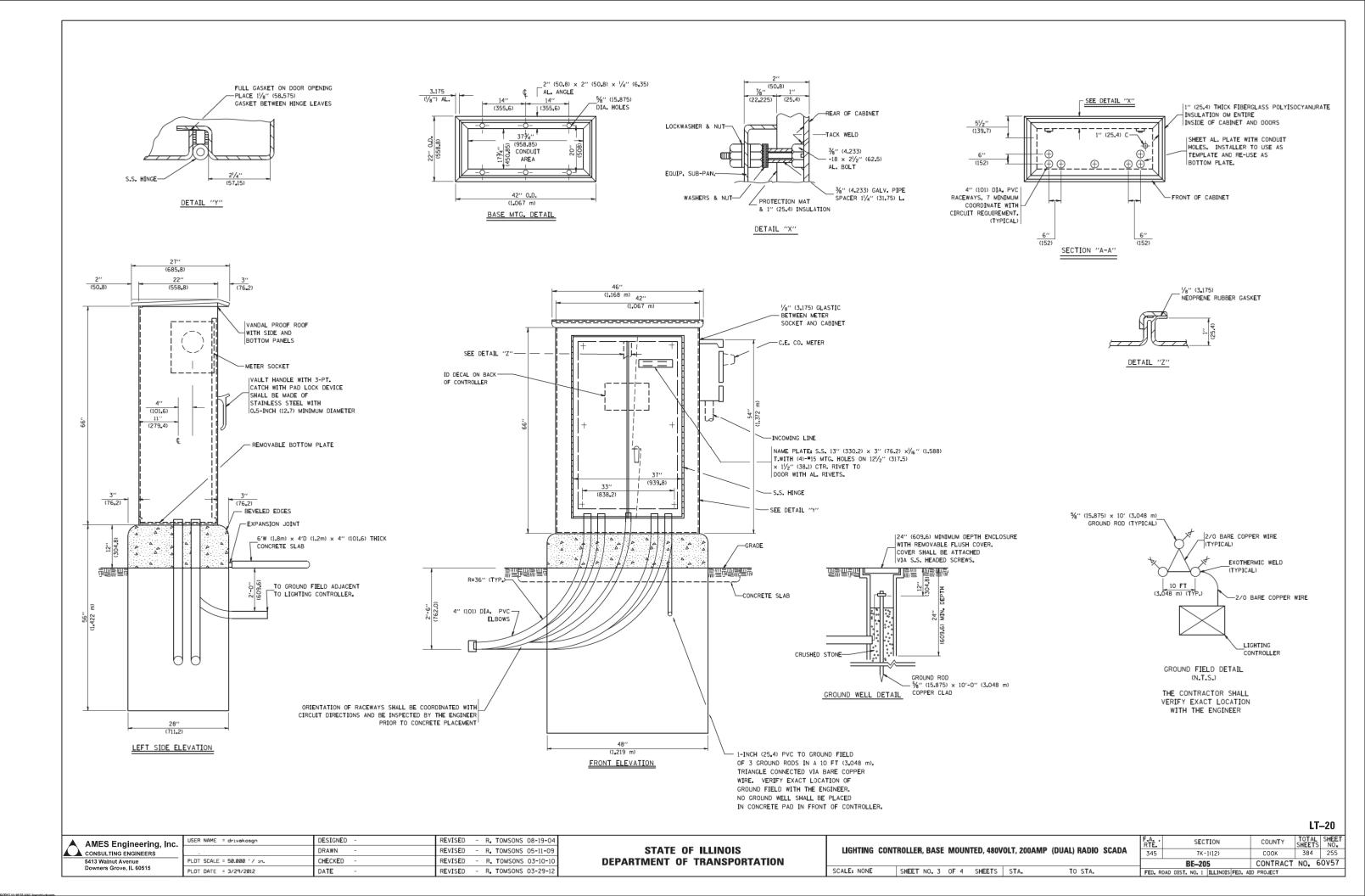
* TERMINALS SHALL BE COVERED WITH CLEAR PLEXIGLASS SHEET

OVOLT, 200AMP (DUAL) RADIO SCADA			F.A RTE.	SEC	TION	COUNTY	TOTAL SHEETS	SHEET NO.	
OVOLT, 200AMP		(DUAL) KADIU SC	SCADA	345	7K-	1(12)	СООК	384	253
					BE-20	5	CONTRACT	NO. 6	0V57
,	STA.	TO STA.	1	FED. RO	DAD DIST. NO. 1	ILLINOIS FED.	AID PROJECT		



								1-15
30VOLT, 200AMP (DUAL) RADIO SCADA		F.A RTE.	SECTION	COUNTY	TOTAL Sheets	SHEET NO.		
		SCADA	345	7K-1(12)	COOK	384	254	
					BE-205	CONTRACT	NO 6	0V57
S	STA.	TO STA.		FED. RO	AD DIST. NO. 1 ILLINOIS FED. AI	D PROJECT		

IT_19



NOTES

- 1. CABINET SHALL BE FABRICATED FROM 0.125-INCH (3.175) SHEET ALUMINUM #3003H14, FORMED AND ARC WELDED.
- 2. ALL SCREWS AND HARDWARE SHALL BE PLATED, GALVANIZED, OR MADE OF BRASS, ALUMINUM OR STAINLESS STEEL, UNLESS OTHERWISE NOTED.
- NAME PLATE SHALL HAVE ENGRAVED 0.75-INCH (19.05) HIGH LETTERS FILLED IN BLACK: "STATE OF ILLINOIS LIGHTING CONTROLS" UNLESS OTHERWISE SPECIFIED.
- 4. ONE INCH THICK POLYISOCYANURATE INSULATION SHALL BE INSTALL AND PERMANENTLY CEMENTED ON ALL SIDES OF THE CABINET AND DOORS.
- 5. CABINET SHALL BE PRIMED AND PAINTED AS SPECIFIED.
- 6. ELECTRIC UTILITY METER BOX SHALL BE MOUNTED ON THE SIDE OF CONTROL CABINET AS SHOWN ON THE PANEL LAYOUT DIAGRAM.
- 7. THE COMPLETED CONTROLLER SHALL BE U.L. LISTED AS AN INDUSTRIAL CONTROL PANEL UNDER UL508.
- 8. METAL MOUNTING PANEL SHALL BE FABRICATED FROM THE SAME MATERIAL AS THE CABINET AND SHALL BE FLANGED BACK 0.75-INCHES I.D. ON 4 SIDES.
- CIRCUIT BREAKERS AND CONTACTORS AND OTHER COMPONENTS SHALL BE MOUNTED ON 0.125-INCH (3.175) THICK GLASTIC INSULATION BACK PANEL.
- 10. ALL DEVICES SHALL BE FRONT REMOVABLE.
- 11. TIME CLOCK CHANNEL 1 N.O. CONTACT IS CLOSED NIGHT AND OPEN DAY (LIGHTS ON).
- 12. SET LATITUDE TO 42 DEGREES. SET CH.1 TO 23 MINUTES AFTER ASTRONOMICAL SUNSET, 50 MINUTES BEFORE ASTRONOMICAL SUNRISE. SET CH.2 TO 60 MINUTES AFTER ASTRONOMICAL SUNSET (WITH A SIGNAL LENGTH OF 1 SECOND), +28 MINUTES AFTER ASTRONOMICAL SUNRISE (WITH A SIGNAL LENGTH OF 7 SECONDS.)
- 13. BUS BAR SHALL HAVE 22 LUG TERMINALS SIZED TO ACCOMMODATE REQUIRED WIRE SIZES. 240V NEUTRAL BUS SHALL BE PAINTED WHITE, GROUND BUS SHALL BE PAINTED GREEN, AND THE 120V NEUTRAL BUS SHALL BE PAINTED GREY.
- 14. ALL LUGS SHALL BE OF COPPER SCREWS AND CONNECTORS, SPRING HELD.
- 15. ALL WIRING TERMINATIONS SHALL BE RATED NOT LESS THAN 75 DEGREE CENTIGRADE.
- 16. ALL CONTROL WIRING SHALL BE 600V #12 TYPE MTW, SCADA WIRING SHALL BE #18.
- 17. ALL POWER WIRING SHALL BE 600V TYPE RHH/RHW.
- 18. ALL WIRING WITHIN THE CABINET SHALL BE COLOR CODED AS INDICATED:

R -	RED	Y	-	YELLOW
в -	BLACK	W	-	WHITE
BL-	BLUE	G	-	GREEN
		G	-	GREY

19. MOSCAD I/O WIRING SHALL BE:

DIGITAL INPUT (DI) WIRING SHALL BE #18 MTW PURPLE.

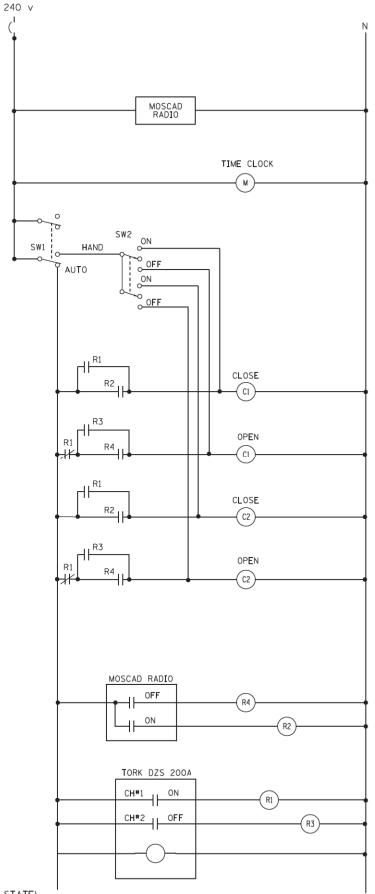
ANALOG INPUT (AI) WIRING SHALL BE #18, 2/C SHIELDED.

AI AND DI WIRING MAY BE BUNDLED TOGETHER, BUT SHALL NOT BE BUNDLED WITH OTHER WIRING.

20. ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE INDICATED.

21. SCHEMATIC SHOWN WITH BREAKER OPEN, CONTACTOR OPEN, CABINET DOOR CLOSED, CLOCK NOT ACTIVE (DE-ENERGIZED STATE).

22. A LAMINATED COPY OF THE CIRCUIT SCHEMATIC AND SCADA I/O DIAGRAM (NO SMALLER THAN 11"×17" EACH) SHALL BE ATTACHED TO THE INSIDE OF THE CONTROLLER WITH STAINLESS STEEL SCREWS.



CONTROL CIRCUIT LADDER LOGIC DIAGRAM

- 1	AMES Engineering, Inc.	USER NAME = drivakosgn	DESIGNED -	REVISED - R. TOMSONS 08-19-04			
	CONSULTING ENGINEERS	-	DRAWN -	REVISED - R. TOMSONS 05-11-09	STATE OF ILLINOIS	LIGHTING CONT	TROLLER, BASE MOUNTED, 480VOL
	5413 Walnut Avenue	PLOT SCALE = 50.000 '/ in.	CHECKED -	REVISED - R. TOMSONS 03-10-10	DEPARTMENT OF TRANSPORTATION		
	Downers Grove, IL 60515	PLOT DATE = 3/29/2012	DATE -	REVISED - R. TOMSONS 03-29-12		SCALE: NONE	SHEET NO. 4 OF 4 SHEETS

	MOSCAD I/O ASSIGNMENTS								
TERM	MOSCAD DESTINATION	DESCRIPTION OF INPUT							
1	DIGITAL INPUT 1	ALARM KNOWLEDGE							
2	DIGITAL INPUT 2	DOOR OPEN							
3	DIGITAL INPUT 3	MAIN(S) BREAKER OPEN							
4	DIGITAL INPUT 4	CONTACTOR 1 OPEN							
5	DIGITAL INPUT 5	CONTACTOR 2 OPEN							
6	DIGITAL INPUT 6	CABINET IN NON-AUTO							
7	DIGITAL INPUT 7	BACK-UP CLOCK OFF CALL							
8	DIGITAL INPUT 8	BACK-UP CLOCK ON CALL							
17	24 V+	24+VDC							
18	DI COMMON	COMMON							
21	К1 С	K1 COMMON							
22	K1 NO	LIGHTS ON CALL							
24	K2 C	K2 COMMON							
25	K2 N0	LIGHTS OFF CALL							
32	ANALOG INPUT 1 (+)	CABINET NEUTRAL CURRENT							
33	ANALOG INPUT 1 (-)	CABINET NEUTRAL CURRENT							
34	ANALOG INPUT 2 (+)	CABINET SERVICE VOLTAGE							
35	ANALOG INPUT 2 (-)	CABINET SERVICE VOLTAGE							
40	P. GROUND	GROUND							

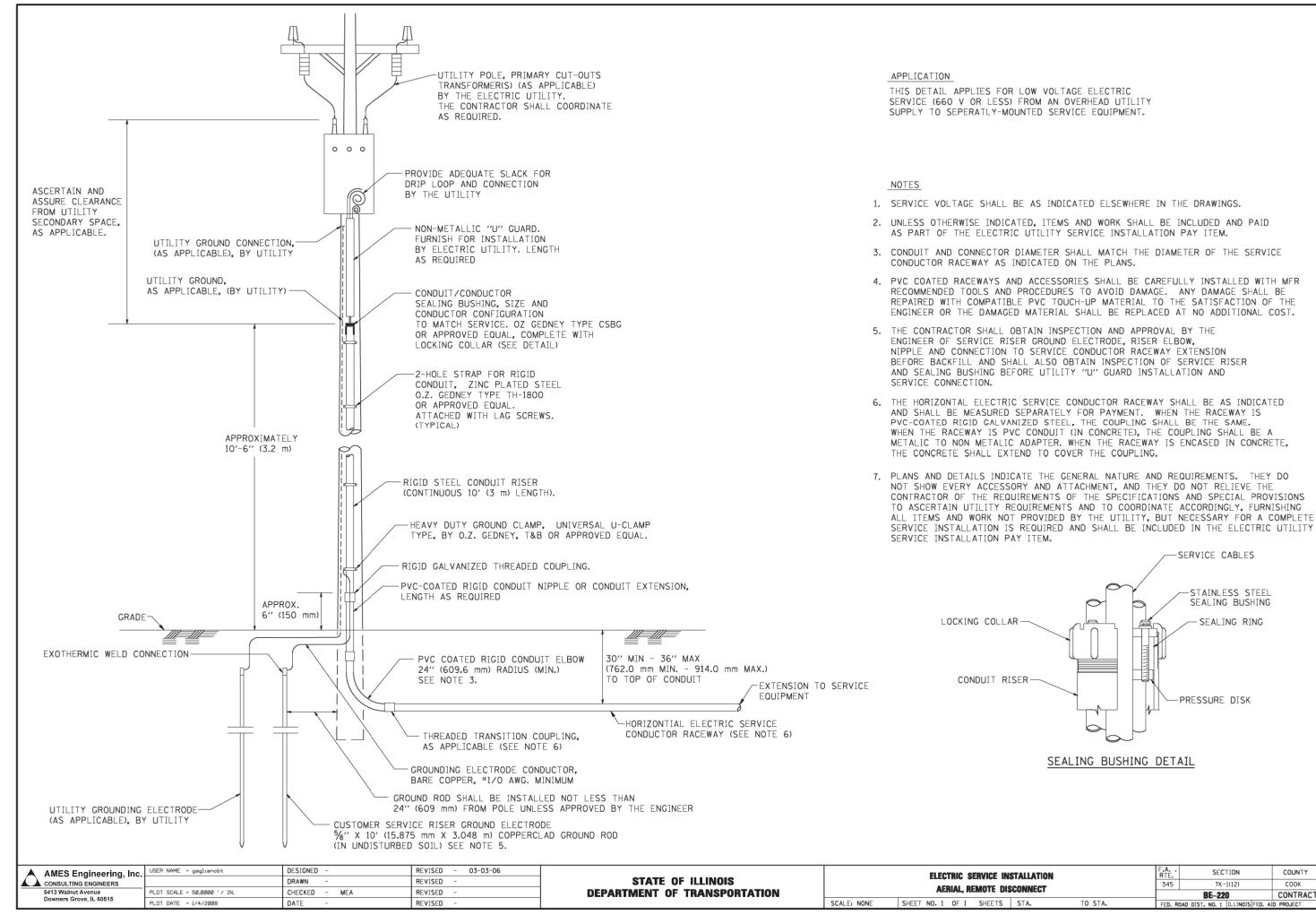
ALL ANALOG INPUTS WILL BE 4-20 MA ONLY. DIGITAL OUTPUT RELAYS WILL BE ELECTRICALLY ENERGIZED AND MOMENTARILY HELD

MIXED I/O MODULE MODEL NUMBER V436

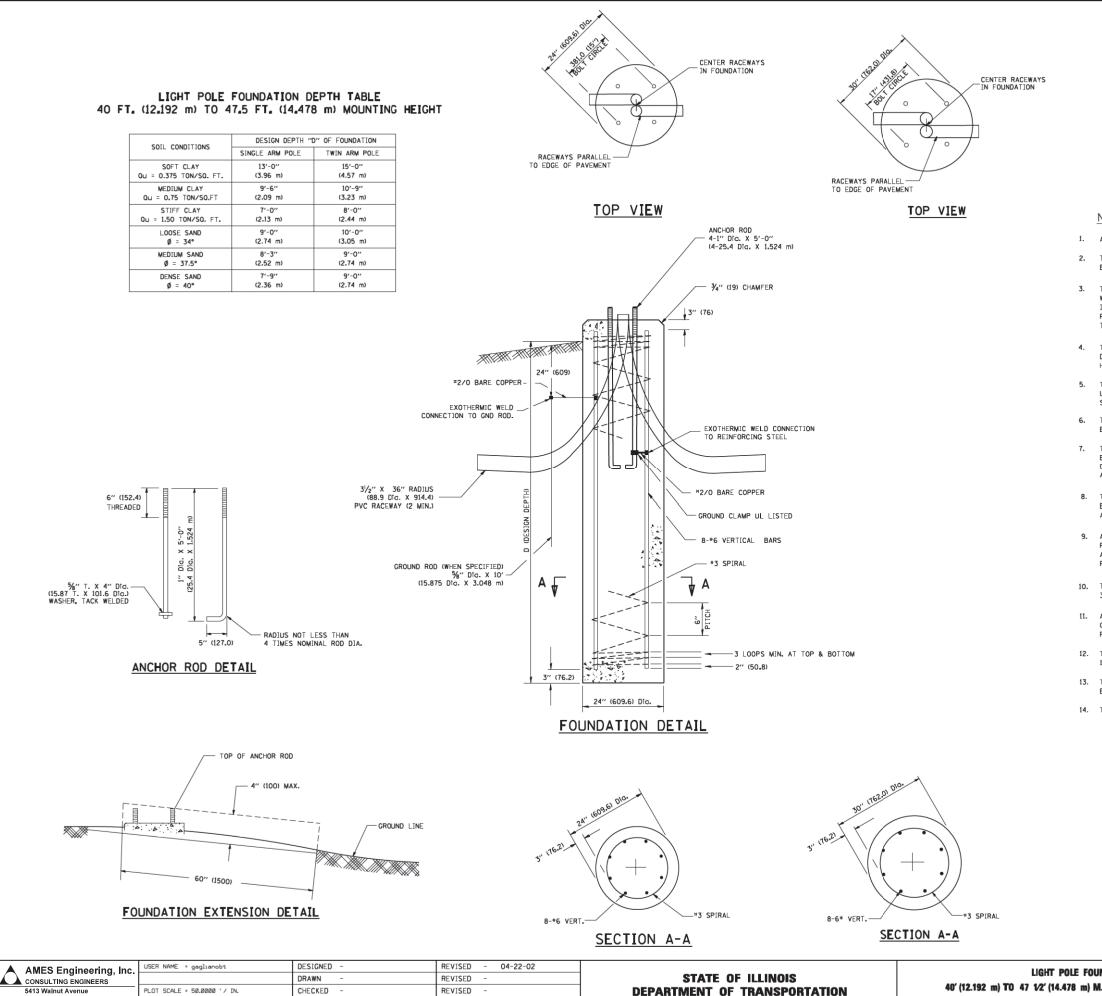
 F.A. NVOLT, 200AMP (DUAL) RADIO SCADA
 F.A. RTE.
 SECTION
 COUNTY SECTION
 TOTAL SHEETS NO.
 SHEET NO.

 is
 STA.
 TO STA.
 FED. ROAD DIST. NO. I
 ILLINOIS[FED. AID PROJECT
 OOVS7

LT–21



						LT	-22
INSTALLATION DISCONNECT			F.A RTE.	SECTION	COUNTY	TOTAL Sheets	SHEET NO.
			345	7K-1(12)	СООК	384	257
				BE-220	CONTRACT	NO. 6	0V57
5	STA.	TO STA.	FED. RO	DAD DIST. NO. 1 ILLINOIS FED. AI	D PROJECT		



AMES Engineering, Inc.	USER NAME = gaglianobt	DESIGNED - DRAWN -	REVISED - 04-22-02 REVISED -	STATE OF ILLINOIS		LIGHT POLE FOUND
5413 Walnut Avenue	PLOT SCALE = 50.0000 '/ IN.	CHECKED -	REVISED -	DEPARTMENT OF TRANSPORTATION	40' (12.1	192 m) TO 47 1/2' (14.478 m) M.H
Downers Grove, IL 60515	PLOT DATE = 1/4/2008	DATE -	REVISED -		SCALE: NONE	SHEET NO. 1 OF 1 SHEETS
	1201 DH12 - 1/4/2000	DATE	NE VISED		SCALL! NONE	SHELT NO. I OF I SHELTS

NOTES

5.

9.

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.

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 34-IN. (20 mm).

6. 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 ENGINEER.

8. 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.

 ANCHOR RODS SHALL PROJECT 2⅔" (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.

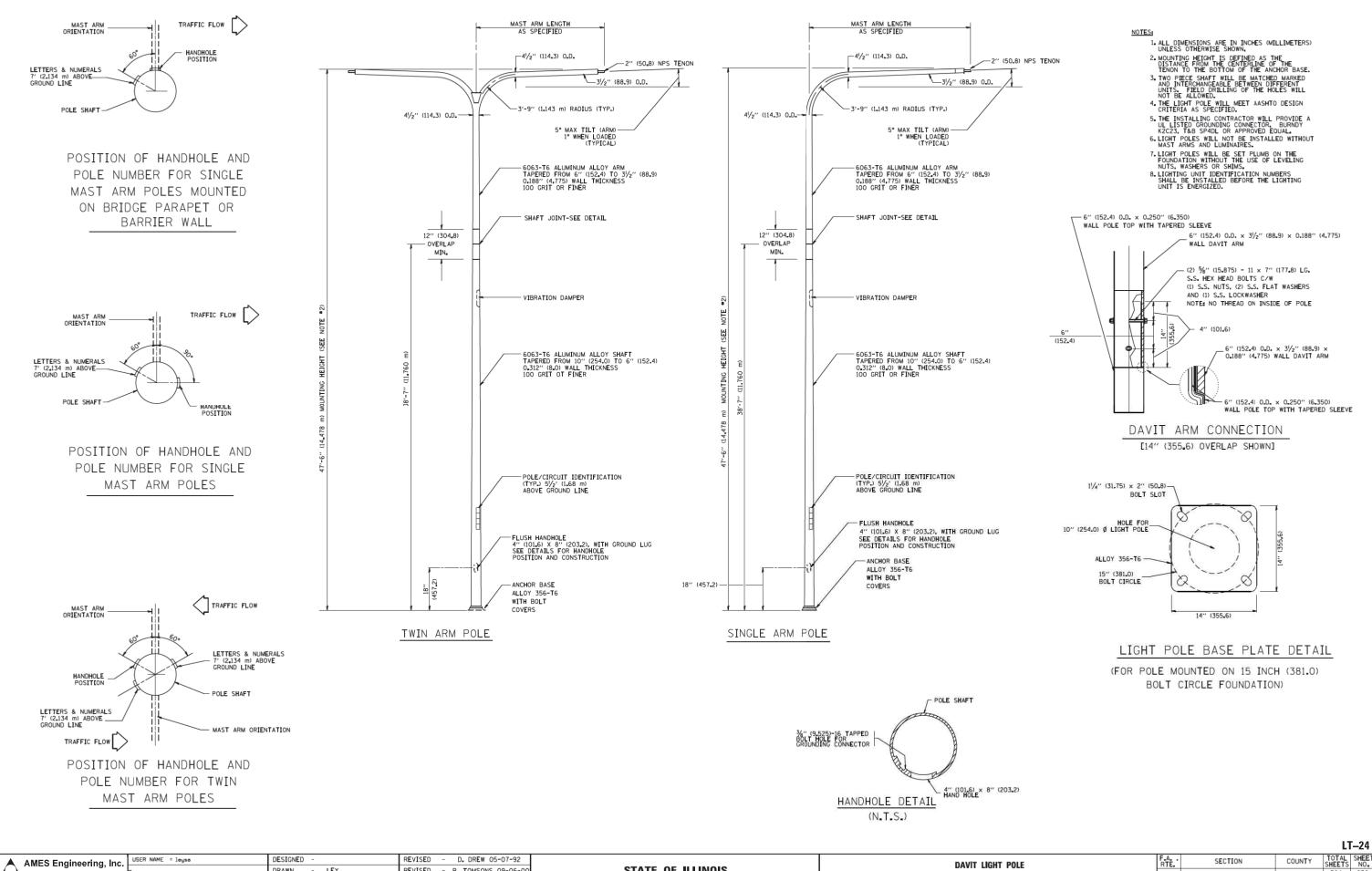
12. THE CONTRACTOR SHALL USE A #3 SPIRAL AT 6" (152.4 mm) PITCH OR MAY SUBSTITUTE #3 TIES AT 12" (304.8 mm) O.C. WITH THE APPROVAL OF THE ENGINEER.

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.

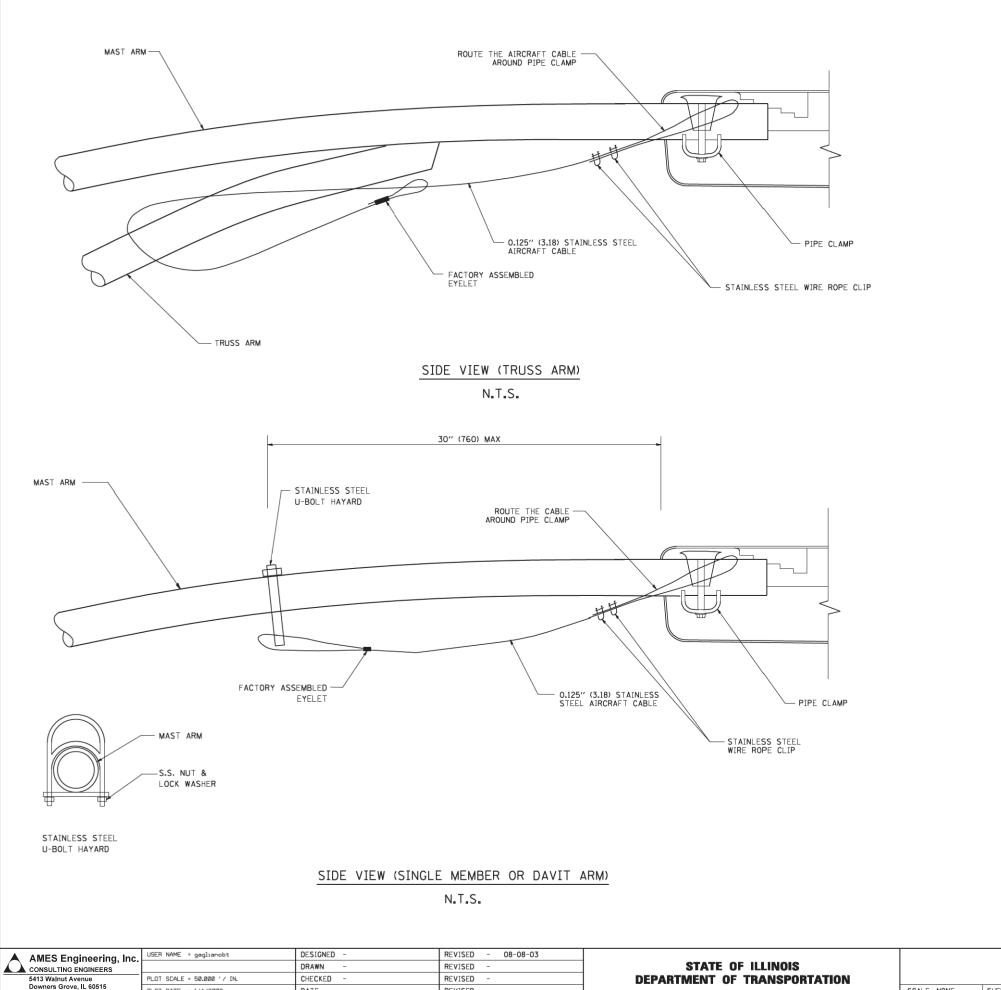
													LI	-23
UN	DATION		1	F.A. Rte.	·		SEC	TION			COUNTY	TOTA SHEET		SHEET NO.
M.H. 15" (381 mm) BOLT CIRCLE			- F	345			7K-	1(12)			COOK	384		258
	1. 13 (30)	IIIII) BULT CINCL				B	E-30'				CONTRACT	NO.	60	0V57
;	STA.	TO STA.		FED.	ROAD	DIST.	NO. 1	ILLINOIS	FED.	AID	PROJECT			

17 22



AMES Engineering, Inc	USER NAME = leyse	DESIGNED -	REVISED - D. DREW 05-07-92			DAVIT LIGHT POI
CONSULTING ENGINEERS	n	DRAWN - LEY	REVISED - R. TOMSONS 09-06-00	STATE OF ILLINOIS		
5413 Walnut Avenue	PLOT SCALE = 50.0000 '/ in.	CHECKED -	REVISED - R. TOMSONS 09-02-03	DEPARTMENT OF TRANSPORTATION		47'–6" (14.478 m) MOUNTI
Downers Grove, IL 60515	PLOT DATE = 4/4/2013	DATE -	REVISED - R. TOMSONS 01-18-13		SCALE: NONE	SHEET NO. 1 OF 1 SHEETS S
					·	

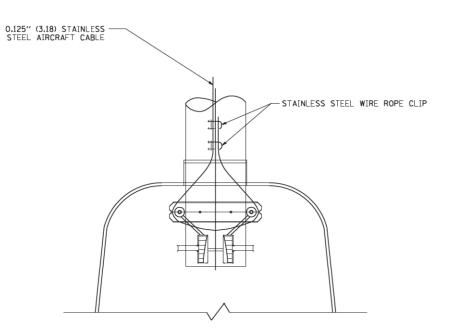
								L I	I-Z4
F	POLE		F.A RTE.	SECI	TION		COUNTY	TOTAL Sheets	SHEET NO.
INTING HEIGHT		345	7K-1(12)			СООК	384	259	
			BE-410)		CONTRACT	NO. 6	50V57	
	STA.	TO STA.	FED. R	DAD DIST. NO. 1	ILLINOIS FE	D. AI	D PROJECT		



REVISED

PLOT DATE = 1/4/2008

DATE



BOTTOM VIEW

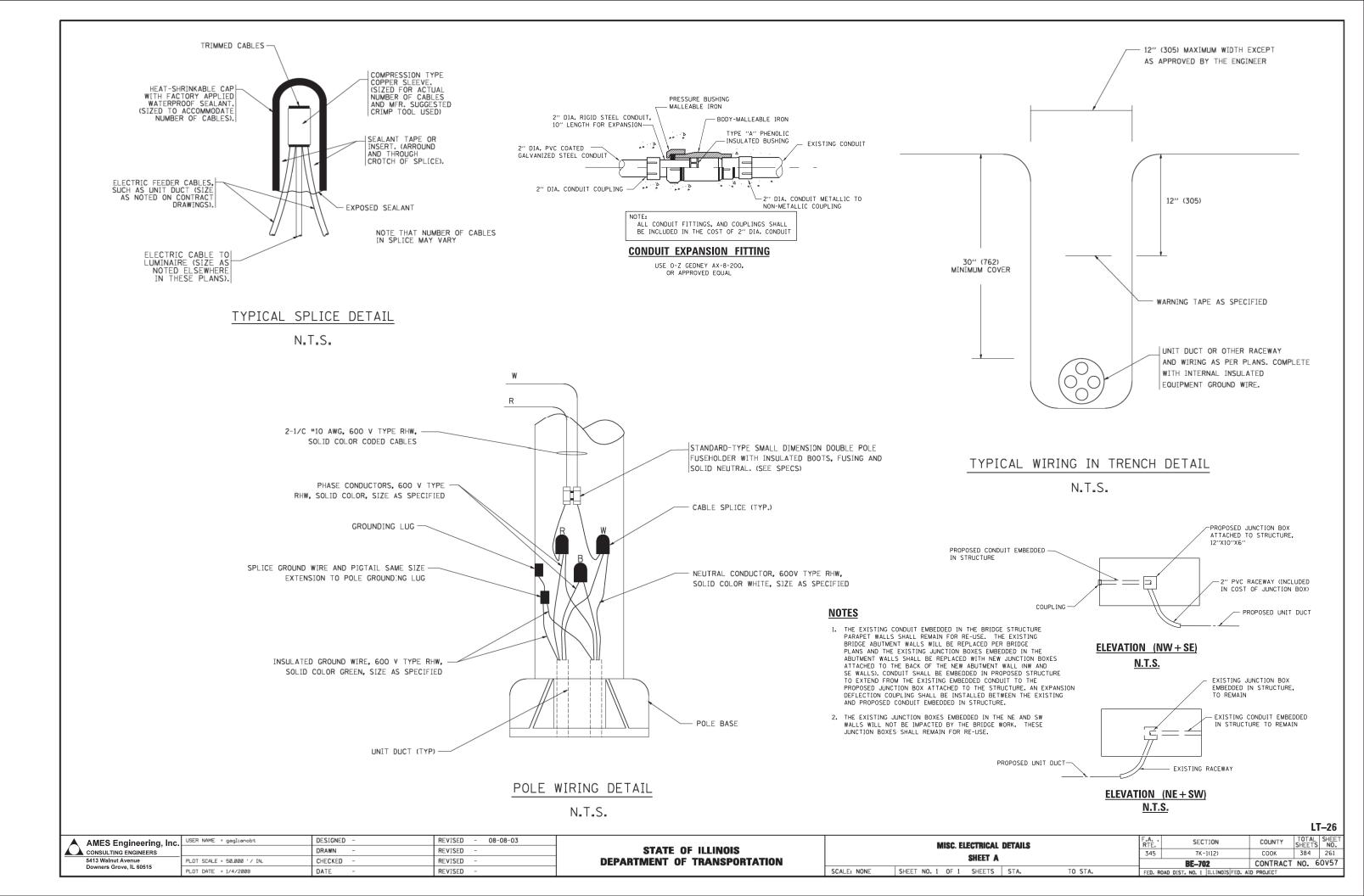
N.T.S.

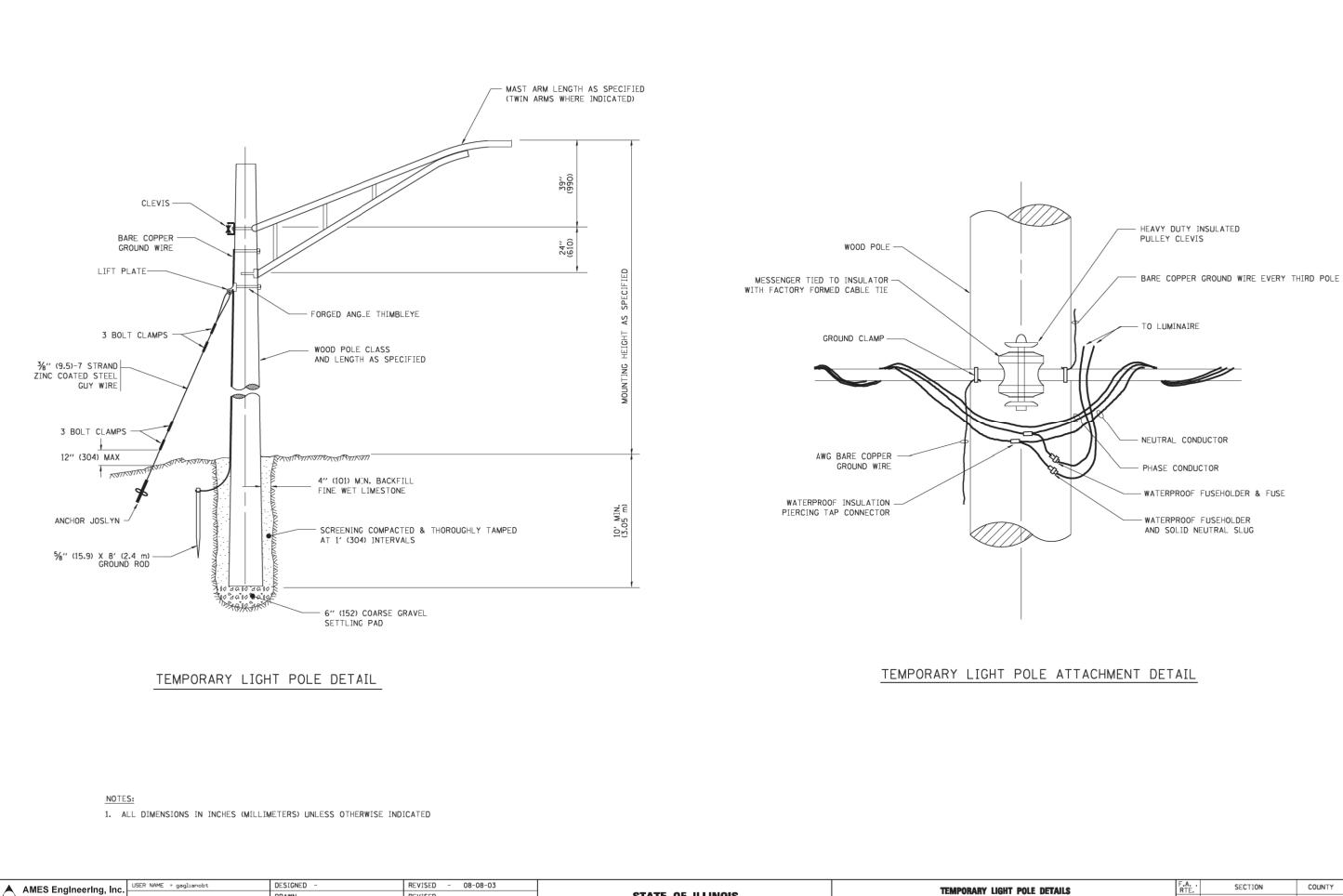
NOTES:

- 1. ALL DIMENSIONS ARE IN MILLIMETERS (INCHES) UNLESS OTHERWISE SHOWN.
- CONTRACTOR SHALL ADJUST THE WIRE CLIP TO ELIMINATE ANY SLACK FROM THE WIRE ROPE.
- THE 0.125" (3.18) STAINLESS STEEL AIRCRAFT CABLE SHALL REMAIN VISIBLE FROM THE GROUND LEVEL.
- 4. THE BREAKING STRENGTH OF THE CABLE SHALL BE 1700 LBS. MIN.

COUNTY TOTAL SHEET NO. COOK 384 260 F.A. . RTE. SECTION LUMINAIRE SAFETY CABLE ASSEMBLY 345 7K-1(12) CONTRACT NO. 60V57 BE-701 TO STA. FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT

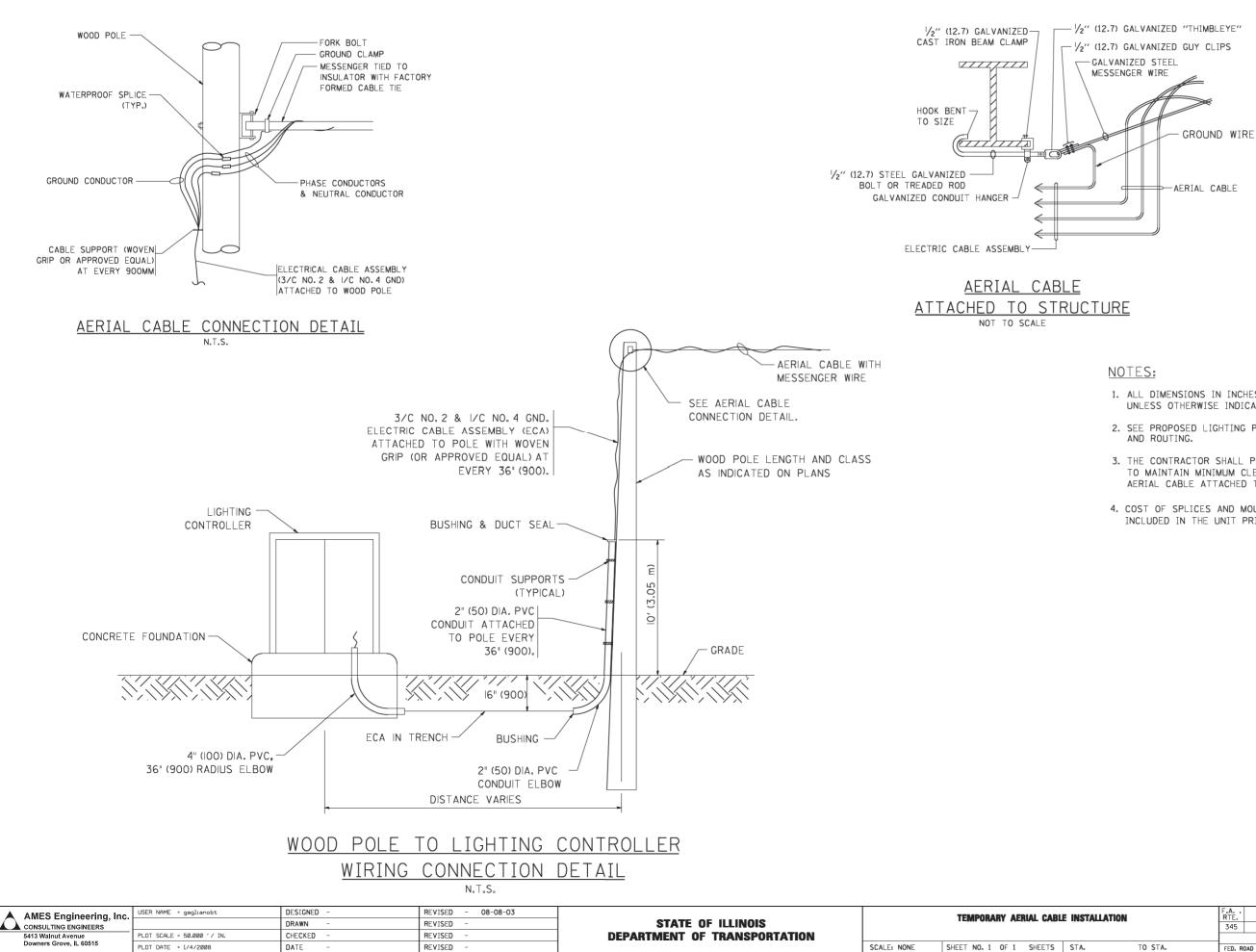
LT–25





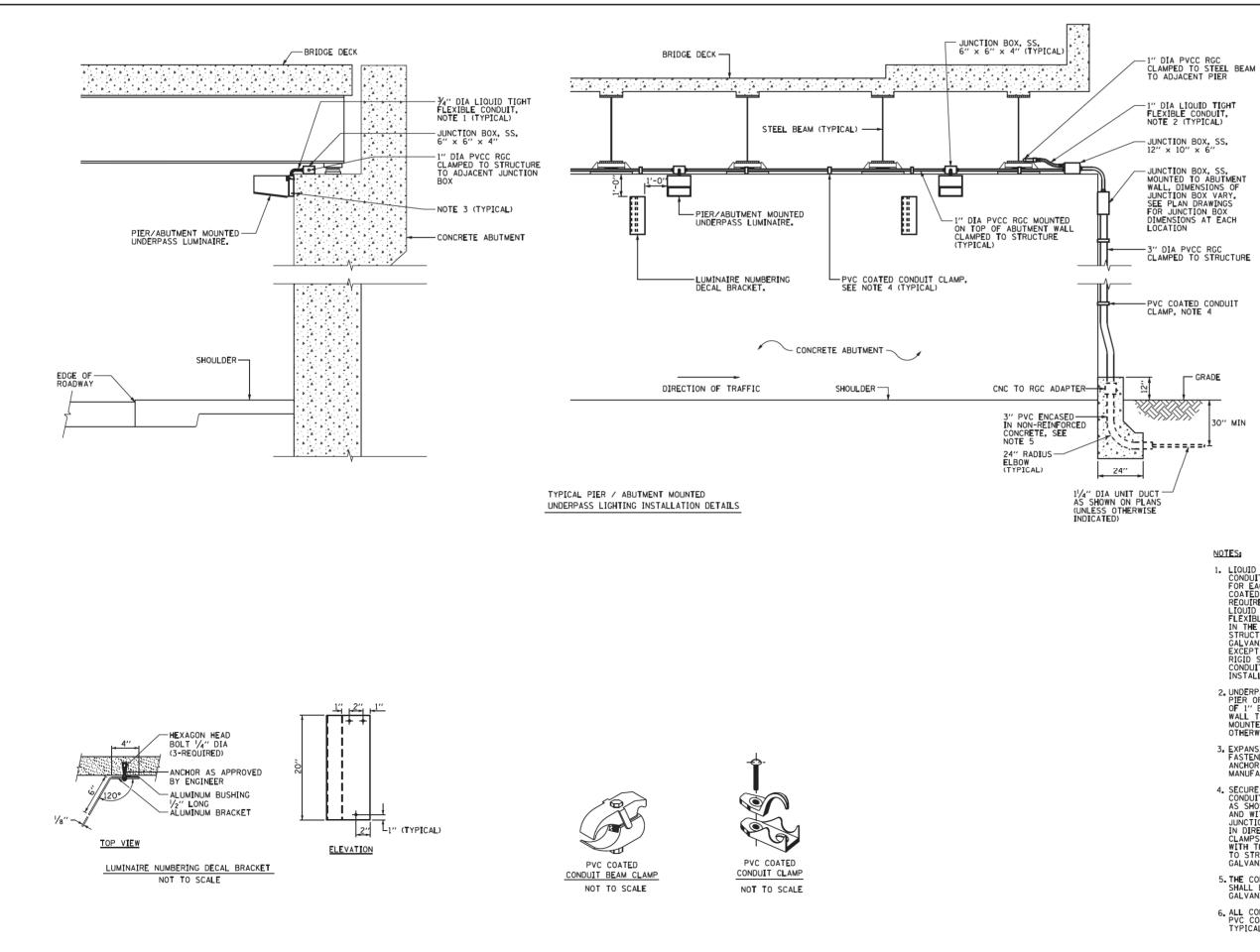
AMES Engineering, Inc.	USER NAME = gaglianobt	DESIGNED -	REVISED - 08-08-03	STATE OF ILLINOIS		TEMPORARY LIG	GHT POI
CONSULTING ENGINEERS		DRAWN -	REVISED -				
5413 Walnut Avenue	PLOT SCALE = 50.000 ' / IN.	CHECKED -	REVISED -	DEPARTMENT OF TRANSPORTATION			
Downers Grove, IL 60515	PLOT DATE = 1/4/2008	DATE -	REVISED -		SCALE: NONE	SHEET NO. 1 OF 1 SHE	HEETS
	PLOT SCALE = 50.000 '/ IN. PLOT DATE = 1/4/2008	CHECKED - DATE -	REVISED -	DEPARTMENT OF TRANSPORTATION	SCALE: NONE	SHEET NO. 1 OF 1	SI

POLE DETAILS			F.A RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
			345	7K-1(12)	СООК	384	262
			_	BE800	CONTRACT	NO. 6	0V57
	STA.	TO STA.	FED. RO	DAD DIST. NO. 1 ILLINOIS FED. AI	D PROJECT		



- 1. ALL DIMENSIONS IN INCHES (MILLIMETERS) UNLESS OTHERWISE INDICATED.
- 2. SEE PROPOSED LIGHTING PLAN FOR CONDUIT, CABLE
- 3. THE CONTRACTOR SHALL PROVIDE INTERMEDIATE SUPPORTS TO MAINTAIN MINIMUM CLEARANCES. REFER TO AERIAL AERIAL CABLE ATTACHED TO STRUCTURE DETAIL.
- 4. COST OF SPLICES AND MOUNTING HARDWARE SHALL BE INCLUDED IN THE UNIT PRICE FOR AERIAL CABLE.

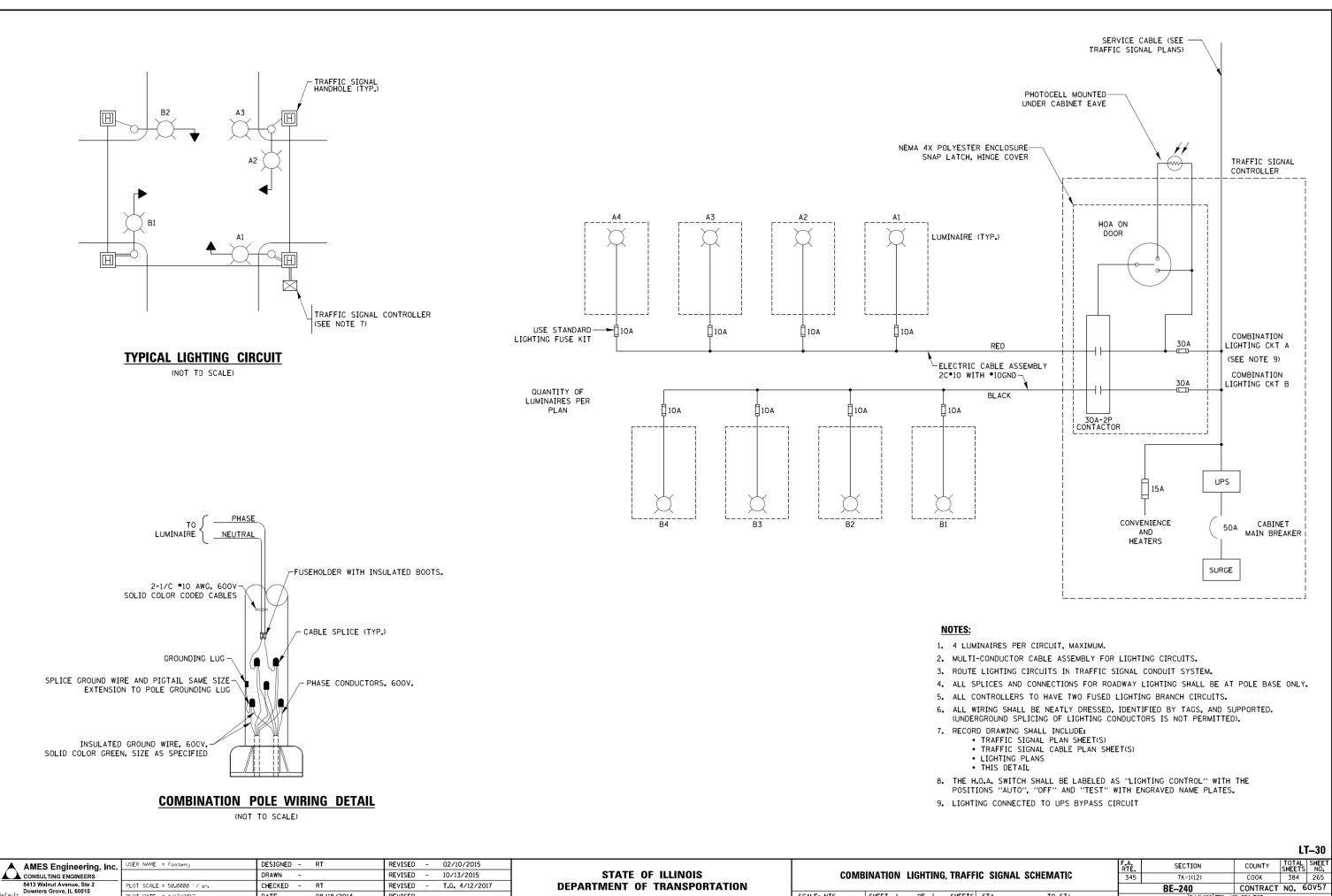
BLE INSTALLATION			F.A RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
			345	7K-1(12)	СООК	384	263
				BE-801	CONTRACT	NO. 6	0V57
	STA.	TO STA.	FED. RO	DAD DIST. NO. 1 ILLINOIS FED. A	D PROJECT		



									LT–29
AMES Engineering, Inc.	USER NAME = drivakosgn	DESIGNED -	REVISED - 01-25-05			PIER /ABUTMENT MOUNTED UNDERPASS	F.A. RTE.	SECTION	COUNTY TOTAL SHEET SHEETS NO.
CONSULTING ENGINEERS	cuments\IDOT Offices\District 1\Projects\Dist	St OR2WM \CADDeta\CADsheets\be902.dgn	REVISED -	STATE OF ILLINOIS	LUMINARE INSTALLATION DETAILS			7K-1(12)	соок 384 264
5413 Walnut Avenue	PLOT SCALE = 100.000 ' / 10-	CHECKED -	REVISED -	DEPARTMENT OF TRANSPORTATION				BE-902	CONTRACT NO. 60V57
Downers Grove, IL 60515	PLOT DATE = 11/17/2015	DATE -	REVISED -		SCALE: NONE	SHEET 1 OF 1 SHEETS STA. TO STA.		ILLINOIS FED.	AID PROJECT

1.	LIQUID TIGHT FLEXIBLE METAL
	CONDUIT, MAXIMUM LENGTH 6'-O'', TYPICAL
	FOR EACH INSTANCE AS SHOWN, PROVIDE PVC
	COATED RIGID GALVANIZED STEEL CONDUIT AS
	REQUIRED NOT TO EXCEED 6'-O" OF FLEXIBLE
	LIQUID TIGHT METAL CONDUIT. LIQUID TIGHT
	FLEXIBLE METAL CONDUIT WILL BE INCLUDED
	IN THE COST OF THE CONDUIT ATTACHED TO
	STRUCTURE, OF THE CORRESPONDING DIA.,
	GALVANIZED STEEL. PVC COATED PAY ITEM
	EXCEPT THAT THE COST OF THE 3/4" DIA.
	RIGID STEEL CONDUIT AND 34" DIA. FLEXIBLE
	CONDUIT SHALL BE INCLUDED IN THE LUMINAIRE
	INSTALLATION.

- 2. UNDERPASS LUMINAIRE MOUNTED TO FACE OF PIER OR ABUTMENT WALL. MOUNTING HEIGHT OF 1" BELOW THE TOP OF PIER OR ABUTMENT WALL TYPICAL FOR ALL PIER/ABUTMENT MOUNTED UNDERPASS LUMINAIRES UNLESS OTHERWISE NOTED.
- EXPANSION ANCHOR, POWDER ACTUATED FASTENERS WILL NOT BE ALLOWED, EXPANSION ANCHOR MUST BE SIZED IN ACCORDANCE WITH MANUFACTURERS REQUIREMENTS.
- 4. SECURE THE CONDUIT WITH PVC COATED CONDUIT CLAMPS OR CONDUIT BEAM CLAMPS AS SHOWN AT 5'-O" INTERVALS FOR LATERALS AND WITHIN 2'-O" MAXIMUM FROM ANY JUNCTION BOX, FLEXIBLE CONDUIT, OR CHANGE IN DIRECTION, ALL PVC COATED CONDUIT CLAMPS OR BEAM CLAMPS SHALL BE INCLUDED WITH THE COST OF THE "CONDUIT ATTACHED TO STRUCTURE, OF THE CORRESPONDING DIA., GALVANIZED STEEL, PVC COATED" PAY ITEM.
- 5. THE CONCRETE ENCASED CONDUIT TRANSITION SHALL BE INCLUDED IN THE COST OF THE GALVANIZED RIGID STEEL CONDUIT PAY ITEMS.
- 6. ALL CONDUIT ATTACHED TO STRUCTURE SHALL BE PVC COATED RIGID STEEL CONDUIT (PVCC RGC) TYPICAL.



SCALE: NTS

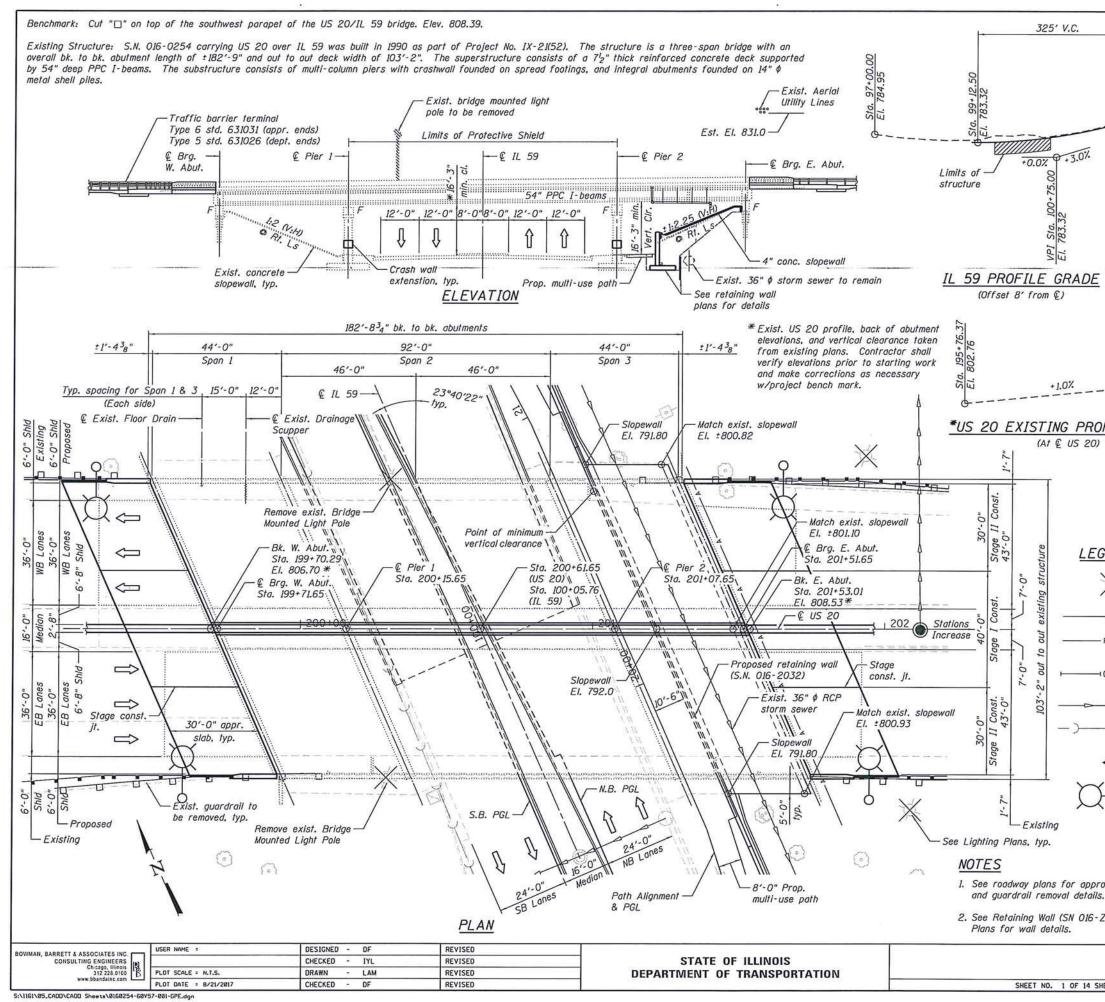
PLOT DATE = 4/13/2017

DATE

- 08/18/2014

REVISED

											- E	-30
								F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
MB	INATIO	JN	LIGH	IINC	i, TRAFF	IC SIG	NAL SCHEMATIC	345	7K-1(12)	СООК	384	265
									BE-240	CONTRACT	NO. 6	50V57
	SHEET	1	OF	1	SHEETS	STA.	TO STA.		ILLINOIS FED. A	D PROJECT		



	1 K	- 13
	SCOPE OF WORK	
7.50	 Remove and replace existing approach slabs and modify abutment for approach slab seat. 	
Sta. 102+37.50 El. 788.19	 Remove existing raised median & portions of deck, and install double-face median parapet and deck closing the open joint along bridge Q. 	
E	3. Perform concrete deck repairs (partial depth).	
	 Structural repair of concrete for existing outside parapets. 	
	5. Scarify deck and provide bridge deck thin polymer overla	лу.
	Structural repair of concrete and epoxy crack injection for piers and diaphragms.	
	 Remove and install existing east slopewall. Coordinate with retaining wall work. 	
	8. Extend pier crashwalls.	
	9. Clean exist. drainage scuppers.	
	IO. Plug all existing floor drains on the bridge.	
	11. Remove exist. bridge mounted light poles and underpass lighting. Install new underpass lighting and conduit. See electrical drawings.	
	DESIGN SPECIFICATIONS	
	2002 AASHTO Standard Specifications, I7th Edition & All Interims	
FILE GR	ADE DESIGN STRESSES	
	FIELD UNITS f'c = 3,500 psi (Class SI) (Slopewall, Appr. Slab Footing)	-
	FIELD UNITS f'c = 3,500 psi (Class SI) (Slopewall, Appr. Slab Footing) f'c = 4,000 psi (Class BS) (Approach Slab & Parapet) fy = 60,000 psi 081-007107 LICENSED STRUCTURAL ENGINEER Exist. Light Pole Removal	
	multer S Allin	
GEND		
~/	ENGINEER	
\times	Exist. Light Pole	
- A	Exist. Aerial Utility Line	
F0	Exist. Underground Fiber Optic Cable EXPIRES: November 30, 2018	
G 1	Exist. Underground Gasline	
	Exist. Storm Sewer	
-)	Exist. Underground Sanitary Sewer	
4	Prop. Underpass Lighting	
-0	Prop. Lighting (Pole Mounted)	
	LOCATION SKETCH	
	GENERAL PLAN & ELEVATION	
oach slab	U.S. ROUTE 20 OVER IL ROUTE 59	
	<u>F.A.P. RTE. 345 - SEC. 7K-1(12)</u> COOK COUNTY	
2032)	STRUCTURE NO. 016-0254	
	F.A.P. SECTION COUNTY TOTAL SHEET NO.	T
	345 77-1/101 0007 204 000	
IEETS	345 7K-1(12) COOK 384 266 CONTRACT NO. 60V57	

GENERAL NOTES

construction variations. The Contractor shall field verify existing dimensions and details affecting new construction and make necessary approved adjustments prior to construction or ordering of materials. Such variations shall not be cause for additional compensation for a change in scope of the work, however, the Contractor will be paid for the quantity actually furnished at the unit price bid for the work.

Areas of proposed repairs are estimated. Actual type, location and dimensions are to be determined by the Engineer during construction.

Reinforcement bars designated (E) shall be epoxy coated.

Protective shield shall be installed prior to deck removal.

See MOT plans for additional details & traffic configuration. The Contractor shall note that below deck work may not be able to be performed on a continuous basis, and the work will need to be performed based on the construction staging of IL 59. See MOT plans for additional details. The Contractor shall adjust the bid unit price for items of work as necessary accounting for remobilization efforts.

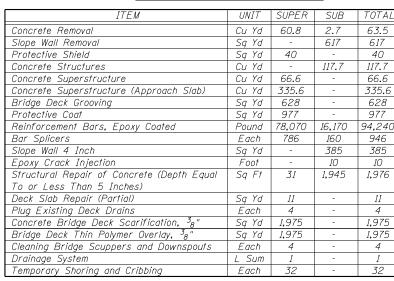
Existing underpass lighting will be replaced, see Lighting Plans for details. Underpass mounting may consist of surface mounted (to existing pier cap) or pendant mounted (supported from existing deck). Prior to drilling operation for lighting supports, Contractor shall locate existing reinforcement bars, and miss them during drilling operations. Cost included with Structural Repair of Concrete, of the type specified.

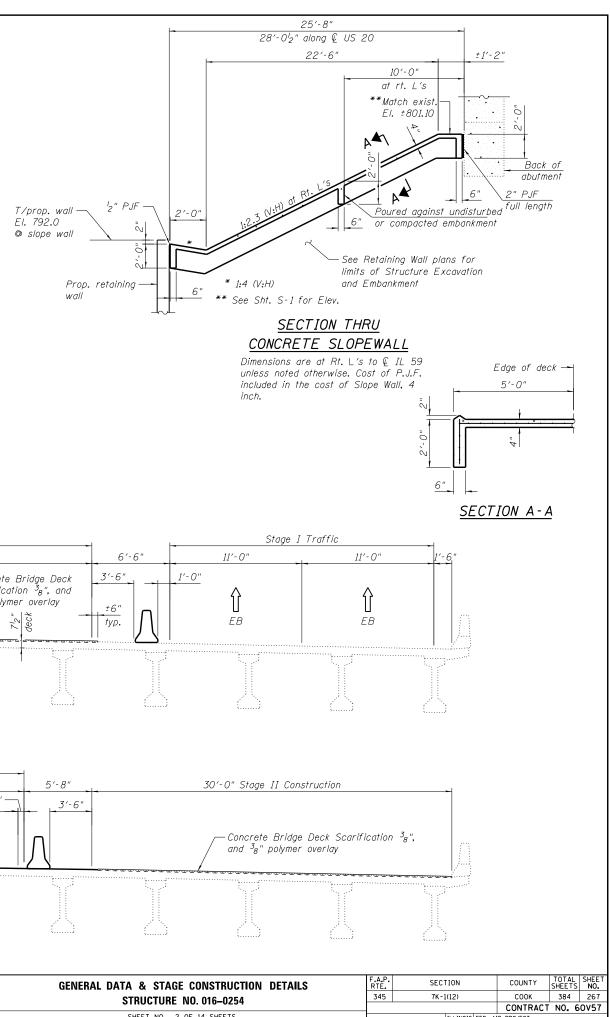
LEGEND

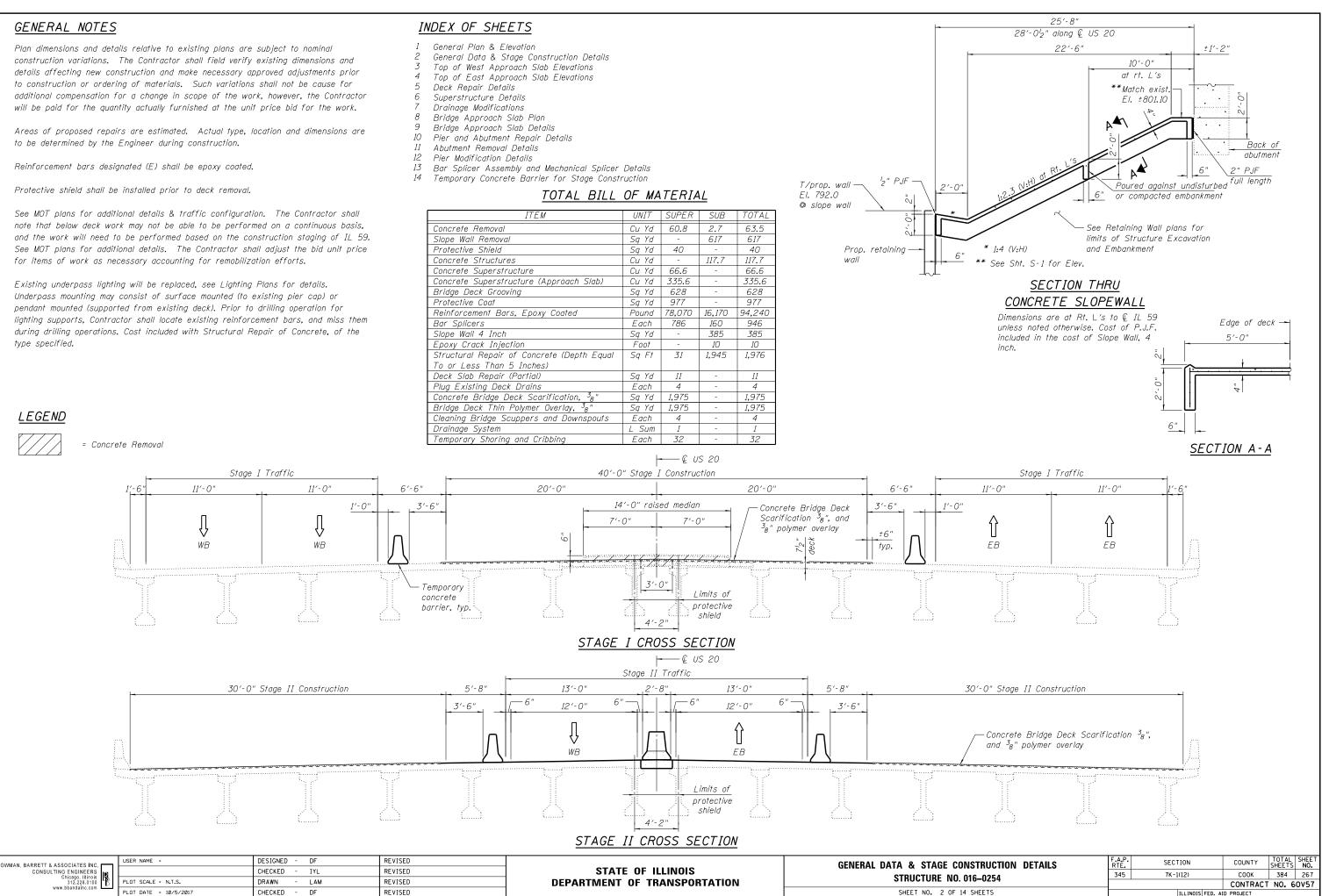




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NORTH EDGE OF SHOULDER

Location	Station	Offset	Theoretical Grade Elevations
W. End of W. Appr.	199+ 18.45	- 50.00	805.24
Al	199+28.45	- 50.00	805.34
A2	199+38.45	- 50.00	805.44
E. End of W. Appr.	199+48.45	- 50.00	805.54

NORTH STAGE CONST. JOINT

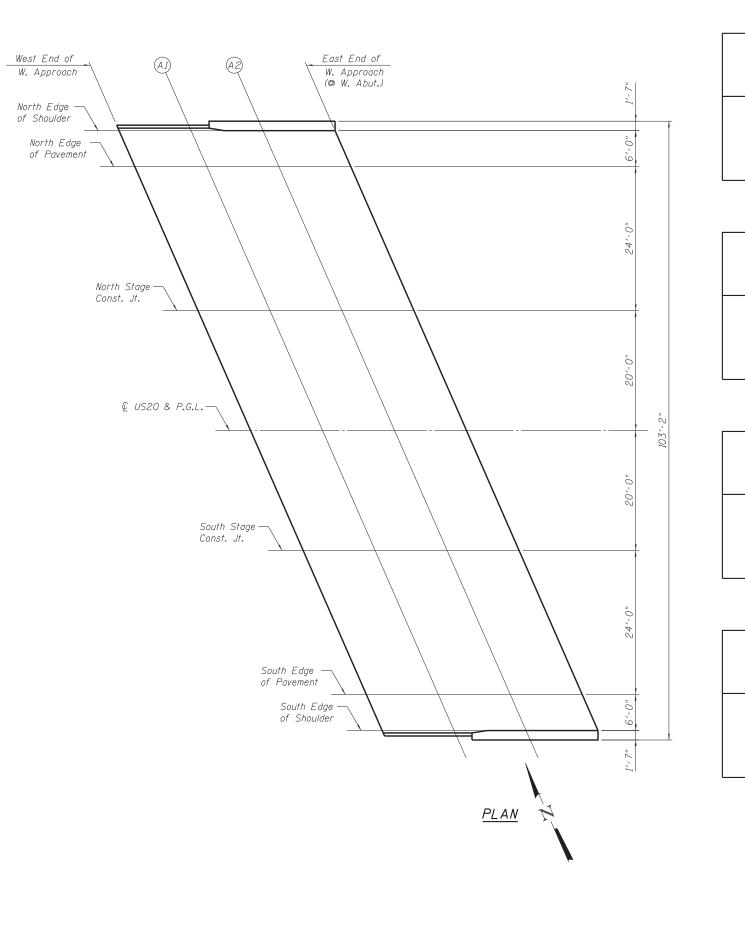
Location	Station	Offset	Theoretical Grade Elevations
W. End of W. Appr.	199+31.60	- 20.00	806.00
A1	199+41.60	- 20.00	806.10
A2	199+51.60	- 20.00	806.20
E. End of W. Appr.	199+61.60	- 20.00	806.30

SOUTH STAGE CONST. JOINT

Location	Station	Offset	Theoretical Grade Elevations
W. End of W. Appr.	199+49.14	20.00	806.18
A1	199+59.14	20.00	806.28
A2	199+69.14	20.00	806.38
E. End of W. Appr.	199+79.14	20.00	806.48

SOUTH EDGE OF SHOULDER

Location	Station	Offset	Theoretical Grade Elevations
W. End of W. Appr.	199+62.29	50.00	805.68
Al	199+72.29	50.00	805.78
A2	199+82.29	50.00	805.88
E. End of W. Appr.	199+92.29	50.00	805.98



BOWMAN BARRETT & ASSOCIATES INC	USER NAME =	DESIGNED - DF	REVISED		TOP OF WEST APPROACH SLAB ELEVATIONS	F.A.P.	SECTION	COUNTY	TOTAL	SHEET		
		CHECKED - IYL	REVISED	STATE OF ILLINOIS	STRUCTURE NO. 016-0254	345	7K-1(12)	СООК	384	268		
312.228.0100 www.bbandainc.com	PLOT SCALE = N.T.S.	DRAWN - LAM	REVISED	DEPARTMENT OF TRANSPORTATION				CONTRACT	T NO. (60v57		
	PLOT DATE = 8/23/2017	CHECKED - DF	REVISED		SHEET NO. 3 OF 14 SHEETS		SHEET NO. 3 OF 14 SHEETS		ILLINOIS FED. A	ID PROJECT		

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NORTH EDGE OF PAVEMENT						
Location	Station	Offset	Theoretical Grade Elevations			
W. End of W. Appr. A1 A2 E. End of W. Appr.	199+21.08 199+31.08 199+41.08 199+51.08	- 44.00 - 44.00 - 44.00 - 44.00	805.39 805.49 805.59 805.69			

€ US 20 & P.G.L.

Location	Station	Offset	Theoretical Grade Elevations
W. End of W. Appr. A1 A2 E. End of W. Appr.	199+40.37 199+50.37 199+60.37 199+70.37	0.000 0.000 0.000 0.000	806.40 806.50 806.60 806.70

SOUTH EDGE OF PAVEMENT

Location	Station	Offset	Theoretical Grade Elevations
W. End of W. Appr.	199 + 59.66	44.00	805.78
Al	199 + 69.66	44.00	805.88
A2	199 + 79.66	44.00	805.98
E. End of W. Appr.	199 + 89.66	44.00	806.08

NORTH EDGE OF SHOULDER

Location		Station	Offset	Theoretical Grade Elevations
	W. End of E. Appr.	201+ 31.00	- 50.00	807.37
	B1	201+ 41.00	- 50.00	807.47
	B2	201+ 51.00	- 50.00	807.57
	E. End of E. Appr.	201+ 61.00	- 50.00	807.67

NORTH STAGE CONST. JOINT

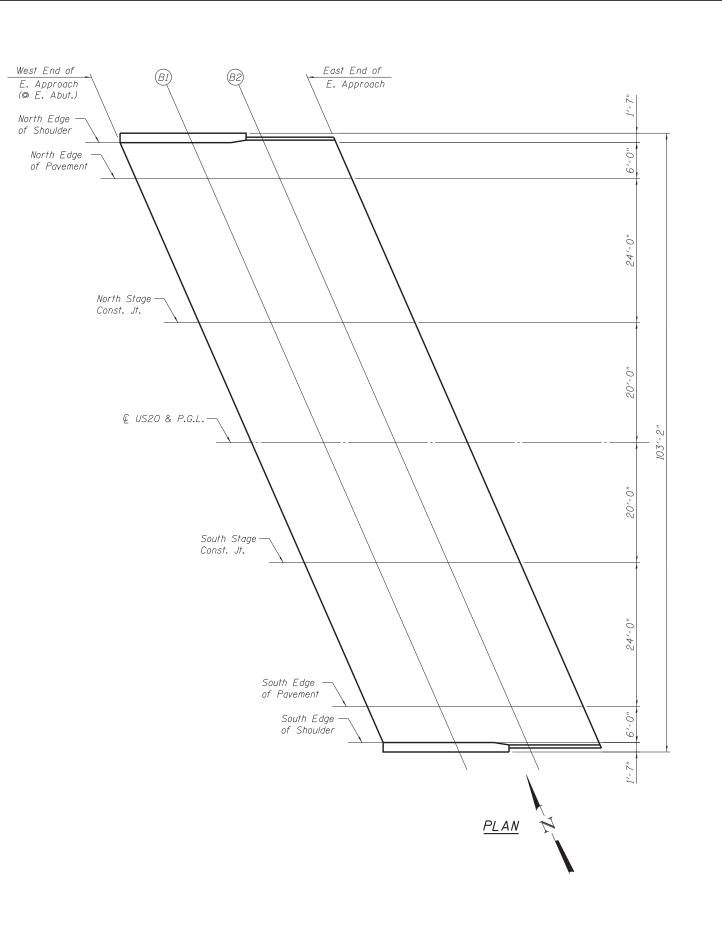
Location	Station	Offset	Theoretical Grade Elevations
W. End of E. Appr.	201+44.15	- 20.00	808.13
B1	201+54.15	- 20.00	808.23
B2	201+64.15	- 20.00	808.33
E. End of E. Appr.	201+74.15	- 20.00	808.43

SOUTH STAGE CONST. JOINT

Location	Station	Offset	Theoretical Grade Elevations
W. End of E. Appr.	201+61.69	20.00	808.30
B1	201+71.69	20.00	808.40
B2	201+81.69	20.00	808.50
E. End of E. Appr.	201+91.69	20.00	808.60

SOUTH EDGE OF SHOULDER

Location	Station	Offset	Theoretical Grade Elevations
W. End of E. Appr.	201+ 74.84	50.00	807.81
Bl	201+ 84.84	50.00	807.91
B2	201+ 94.84	50.00	808.01
E. End of E. Appr.	202+ 04.84	50.00	808.11



BOWMAN, BARRETT & ASSOCIATES INC.	USER NAME =	DESIGNED - DF	REVISED		TOP OF EAST APPROACH SLAB ELEVATIONS	F.A.P. RTE.	SECTION	COUNTY	TOTAL	SHEET NO.
CONSULTING ENGINEERS Chicago, Illinois		CHECKED - IYL	REVISED	STATE OF ILLINOIS	STRUCTURE NO. 016–0254	345	7K-1(12)	СООК	384	269
312.228.0100 www.bbandainc.com	PLOT SCALE = N.T.S.	DRAWN - LAM	REVISED	DEPARTMENT OF TRANSPORTATION				CONTRACT	NO. 6	0v57
	FEOT DATE = 0/23/201/	CHECKED - DF	REVISED		SHEET NO. 4 OF 14 SHEETS		ILLINUIS FED. A.	ID PROJECT		

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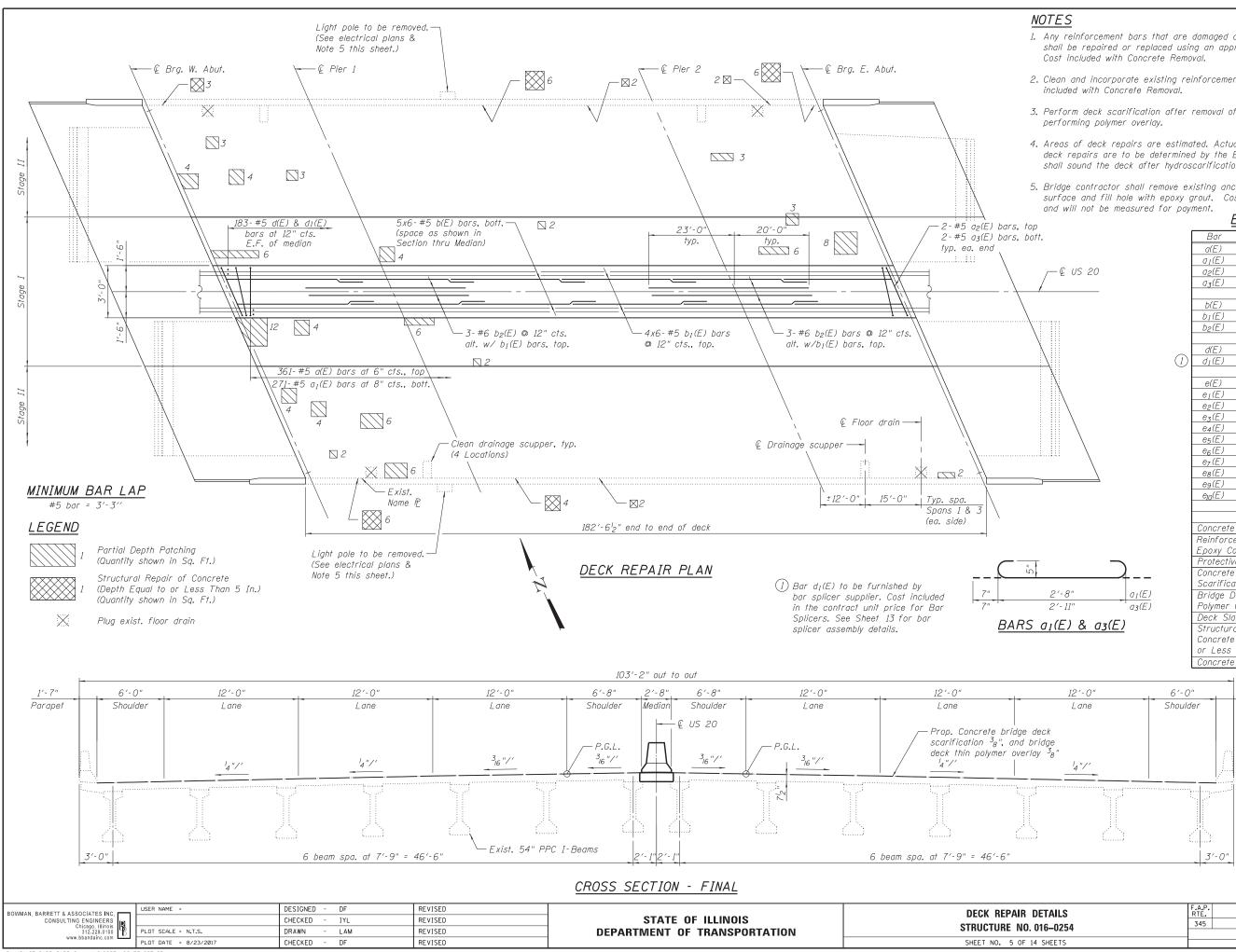
<u>NORTH EDGE OF PAVEMENT</u>						
Location	Station	Offset	Theoretical Grade Elevations			
W. End of E. Appr. B1 B2 E. End of E. Appr.	201+ 33.63 201+ 43.63 201+ 53.63 201+ 53.63	- 44.00 - 44.00 - 44.00 - 44.00	807.52 807.62 807.72 807.82			

<u>€</u> US 20 & P.G.L.

Location	Station	Offset	Theoretical Grade Elevations	
W. End of E. Appr.	201+52.92	0.000	808.53	
B1	201+62.92	0.000	808.63	
B2	201+72.92	0.000	808.73	
E. End of E. Appr.	201+82.92	0.000	808.83	

SOUTH EDGE OF PAVEMENT

Location	Station	Offset	Theoretical Grade Elevations	
W. End of E. Appr.	201+ 72.21	44.00	807.91	
B1	201+82.21	44.00	808.01	
B2	201+92.21	44.00	808.11	
E. End of E. Appr.	202+02.21	44.00	808.21	



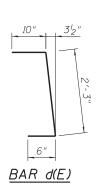
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- 1. Any reinforcement bars that are damaged during concrete removal operations shall be repaired or replaced using an approved bar splicer or anchorage system.
- 2. Clean and incorporate existing reinforcement into new construction. Cost
- 3. Perform deck scarification after removal of concrete median & prior to
- 4. Areas of deck repairs are estimated. Actual type, location, and dimensions of deck repairs are to be determined by the Engineer during construction. Engineer shall sound the deck after hydroscarification.
- 5. Bridge contractor shall remove existing anchor bolts ¹₂" below top of concrete surface and fill hole with epoxy grout. Cost included with various items of work

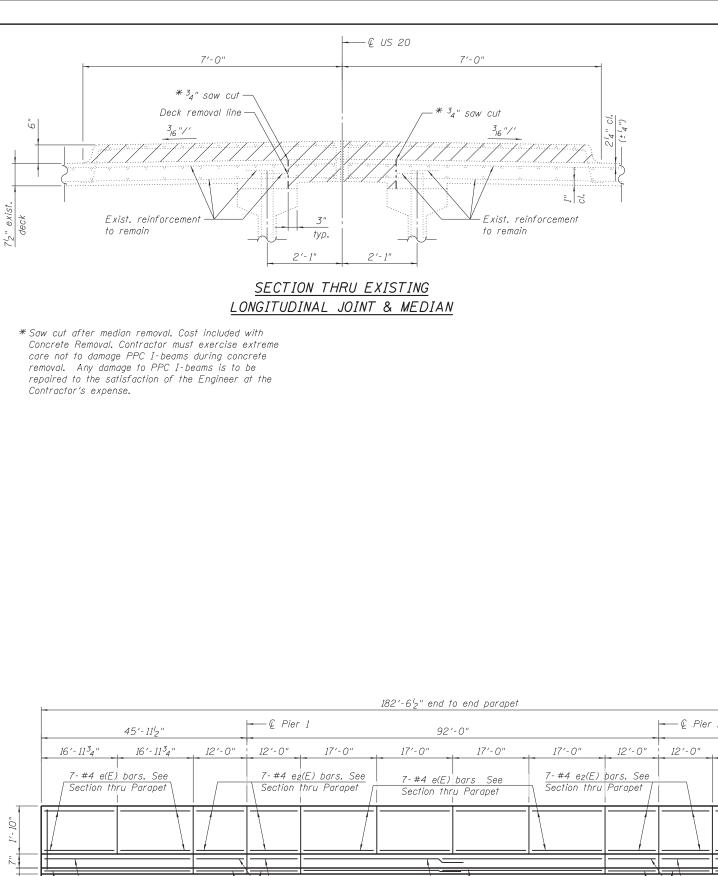
.,,,,	nyment. BILL OF MATERIAL						
ſ	Bar	No.	Size	Length	Shape		
	a(E)	361	#5	2'-8"			
	a1(E)	271	#5	3'-10"			
	a ₂ (E)	4	#5	2'-11"			
	a ₃ (E)	4	#5	4′-1″			
	-						
	b(E)	30	#5	33′-6″			
	bı(E)	24	#5	33′-6″			
	b2(E)	6	#6	43′-0″	· · · · · · · · · · · · · · · · · · ·		
	d(E)	366	#5	3′-7″	Ľ		
	$d_I(E)$	366	#5		۲		
	e(E) 42		#4	16′-8″			
	eı(E)	14	#4	15′-11″			
	e2(E)	28	#4	11'-8"			
	e3(E) 2		#8	33′-7″			
	e4(E)	2	#5	33'-7"			
	e5(E)	8	#8	11'-8"			
	e ₆ (E)	8	#5	11'-8"			
	e ₇ (E)	4	#8	38′-1″			
	e8(E)	4	#5	35′-9″			
	eg(E)	2	#8	32'-3"			
	е ₁₀ (Е)	2	#5	32′-3″			
		T.L		11. 1	0		
	Concrete	Item	inturn	Unit Cu, Yd,	Quantity		
				Cu, Yd.	48.7		
	Reinforcement Bars, Epoxy Coated			Pound	7,990		
	Protective Coat			Sq. Yd.	143		
	Concrete Bridge Deck Scarification, 3/8" Bridge Deck Thin Polymer Overlay, 3/8"		Sq. Yd.	1,975			
			Sq. Yd.	1,975			
				Sq. Yd.	11		
	Deck Slab Repair (Partial) Structural Repair of			Jy. 10.	11		
	Concrete (Depth Equal to or Less than 5")			Sq. Ft.	31		
	Concrete Removal			Cu. Yd.	60.8		

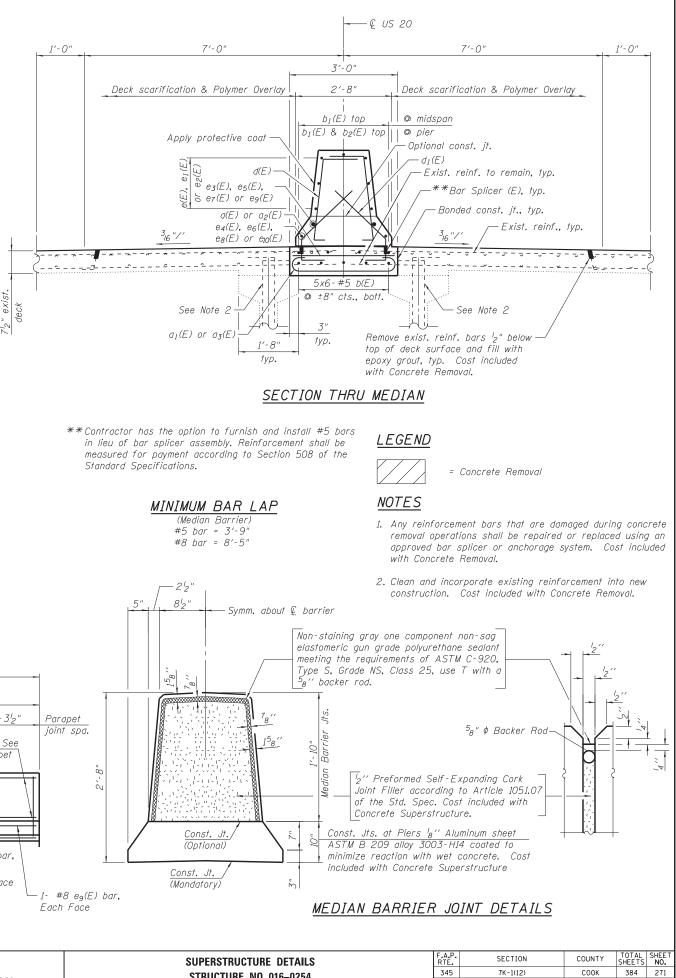
1'-7"

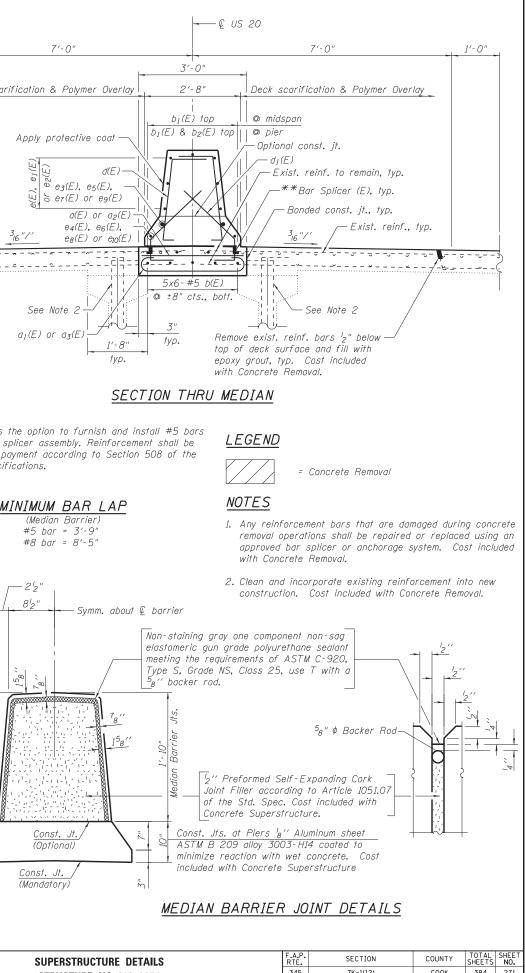
Parapet



F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
345	7K-1(12)	COOK	384	270
CONTRACT NO. 6		0V57		
ILLINOIS FED. AID PROJECT				
	RTE.	RTE. SECTION 345 7K-1(12)	RTE. SECTION COUNT 345 7K-1(12) COOK CONTRACT	RTE. SECTION COUNTY SHEETS 345 7K-1(12) COOK 384 CONTRACT NO. 6

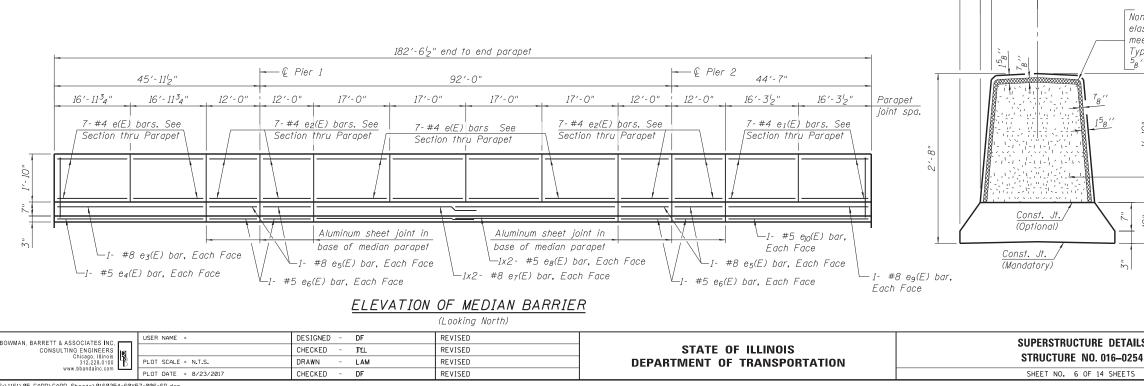




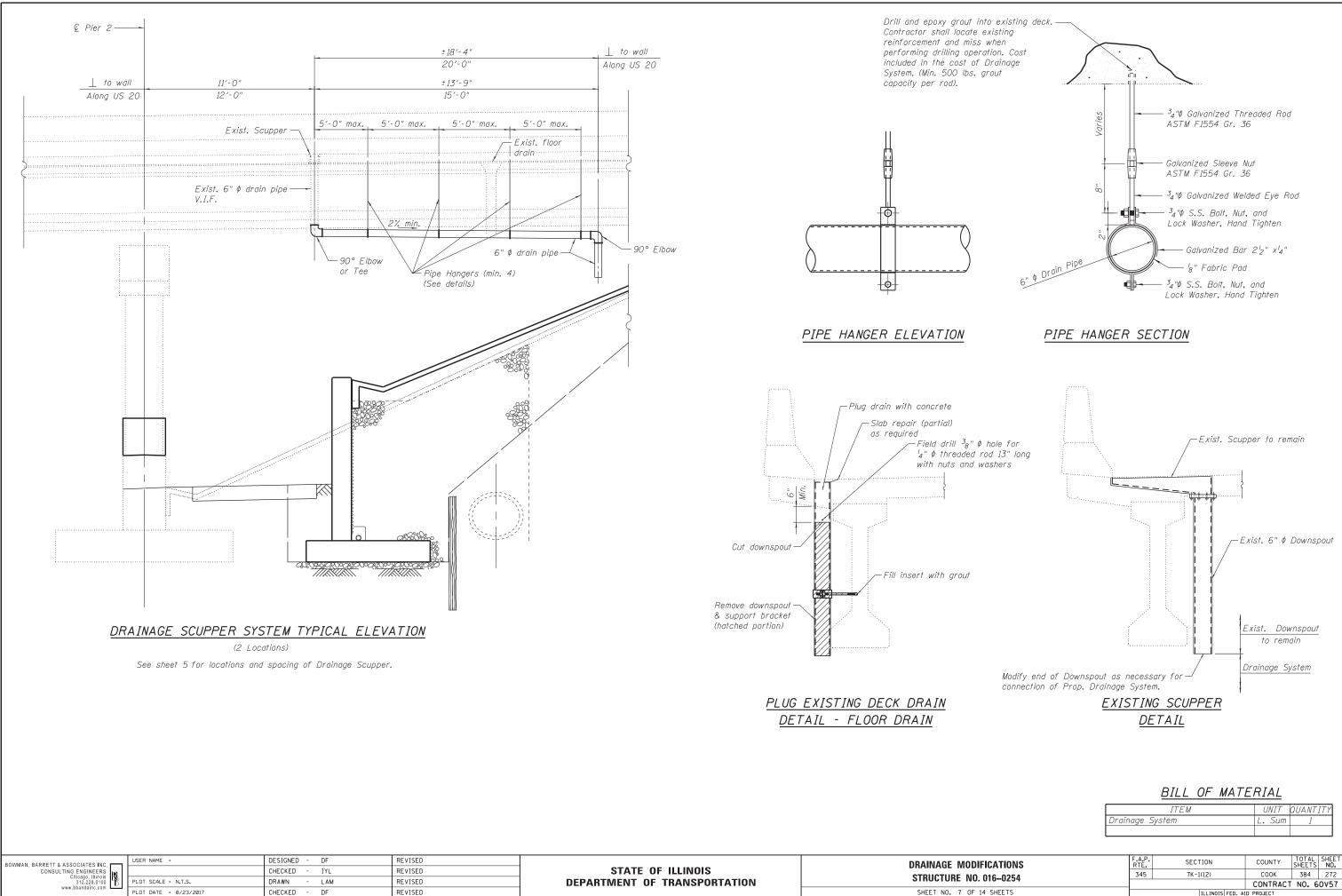


CONTRACT NO. 60V57

TULINOIS FED ALD PROJECT

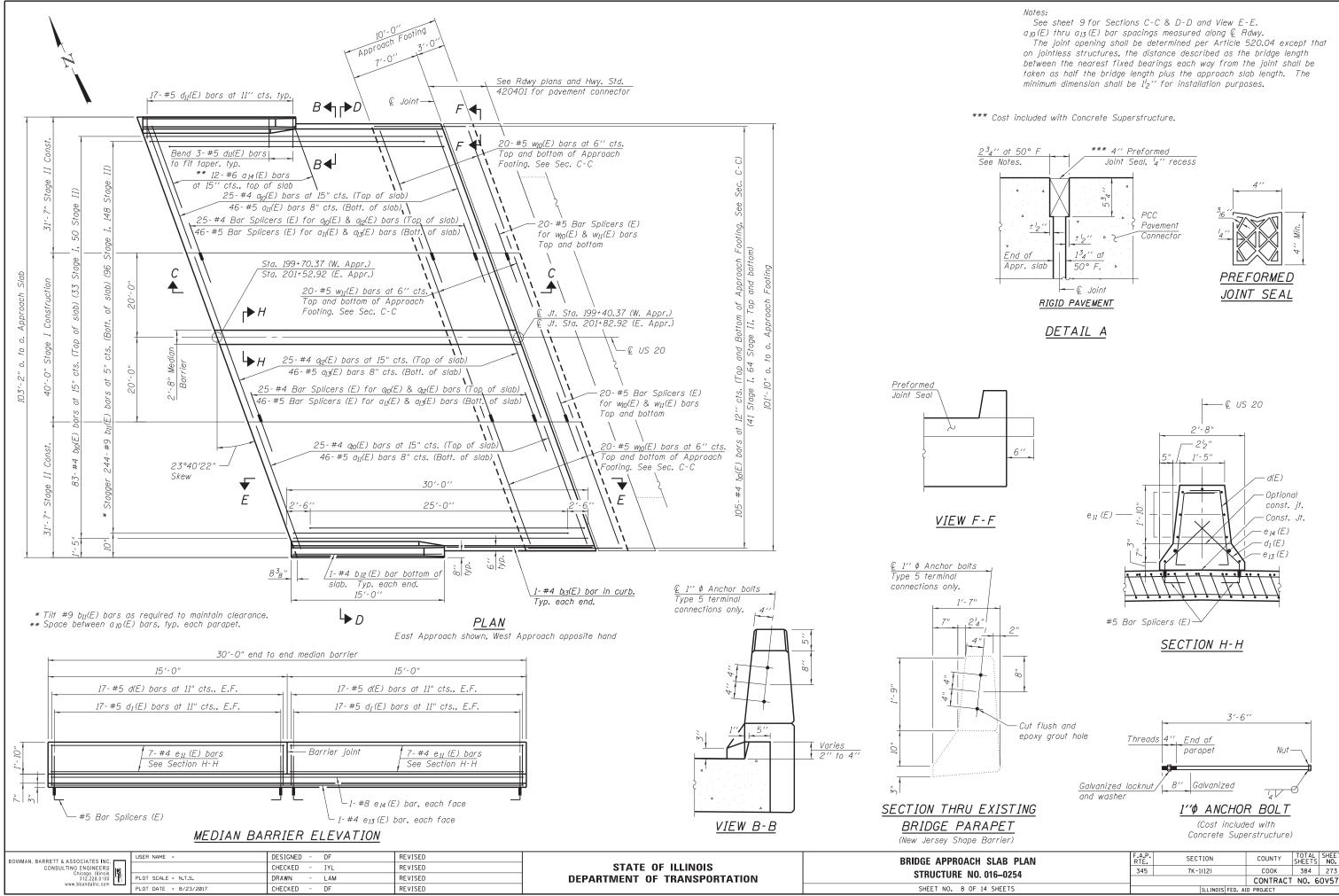


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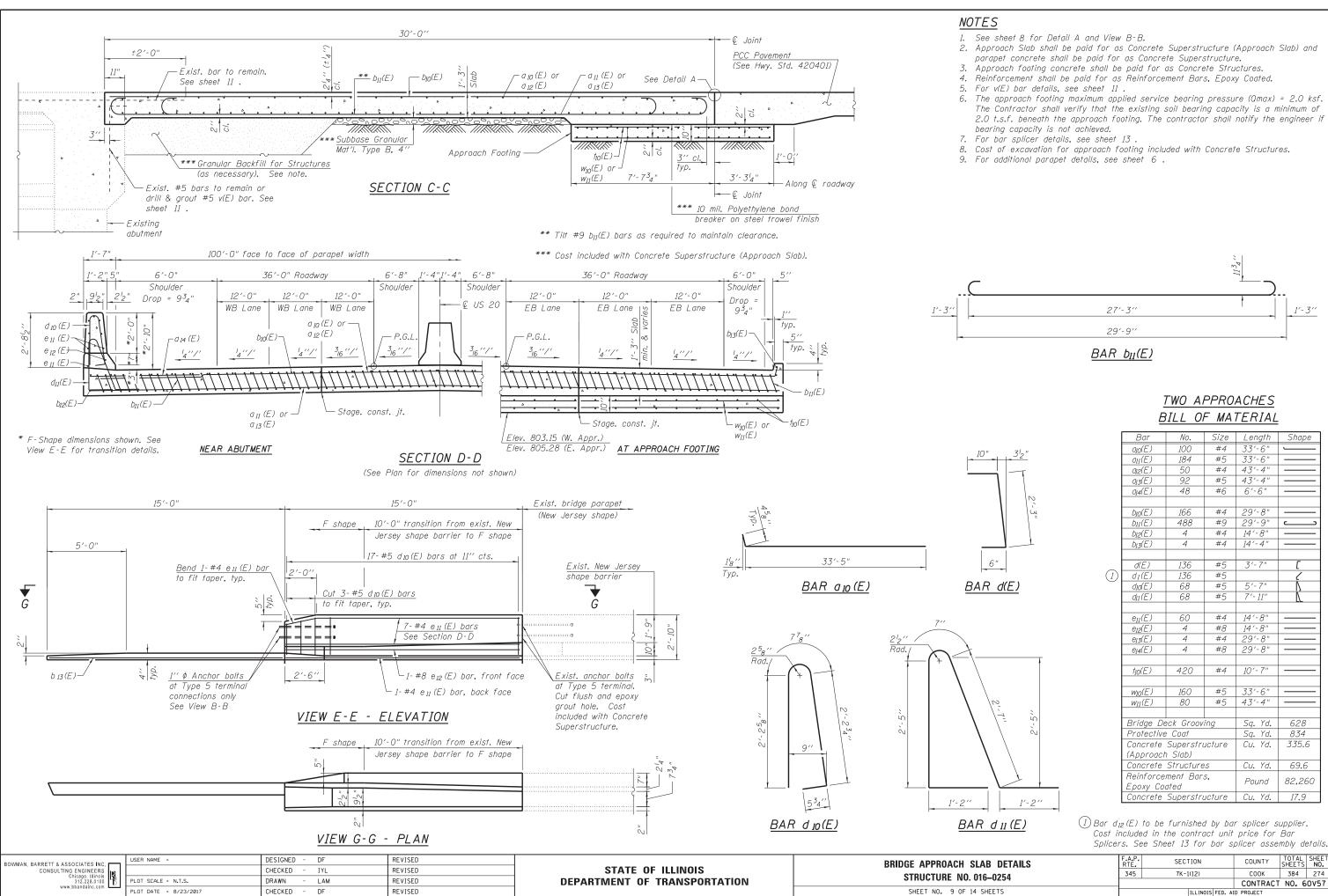
BOWMAN, BARRETT & ASSOCIATES INC. CONSULTING ENGINEERS Chicago, Illinois 312.223.011	DESIGNED - DF CHECKED - IYL DRAWN - LAM		STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	DRAINAGE MODIFICA STRUCTURE NO. 016-
www.bbandainc.com	CHECKED - DF	REVISED	DEPARTMENT OF TRANSPORTATION	SHEET NO. 7 OF 14 SH

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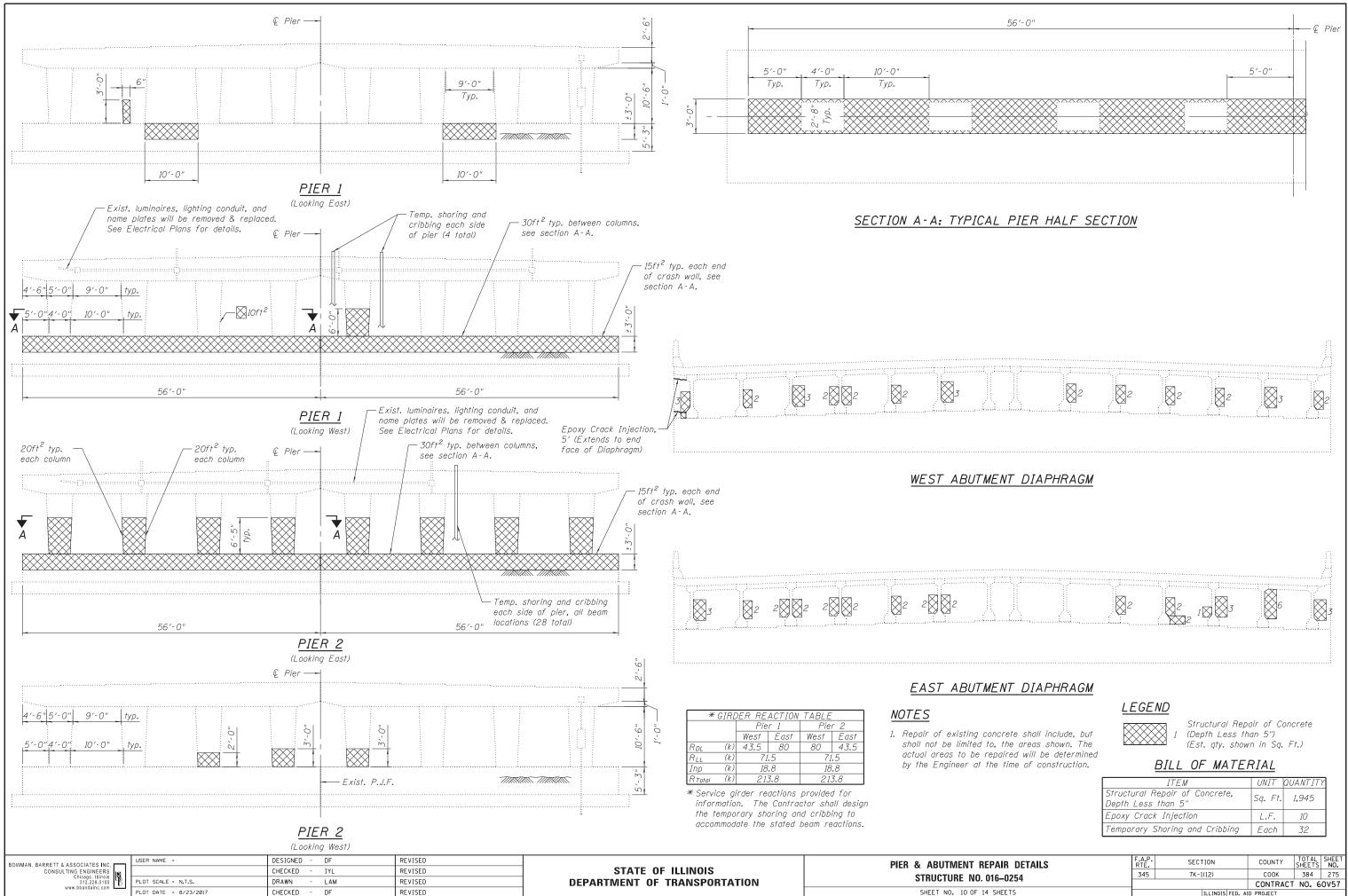
					CONTR	Α
8 OF 14 SHEETS	II	LLINOIS	FED.	AID	PROJECT	_



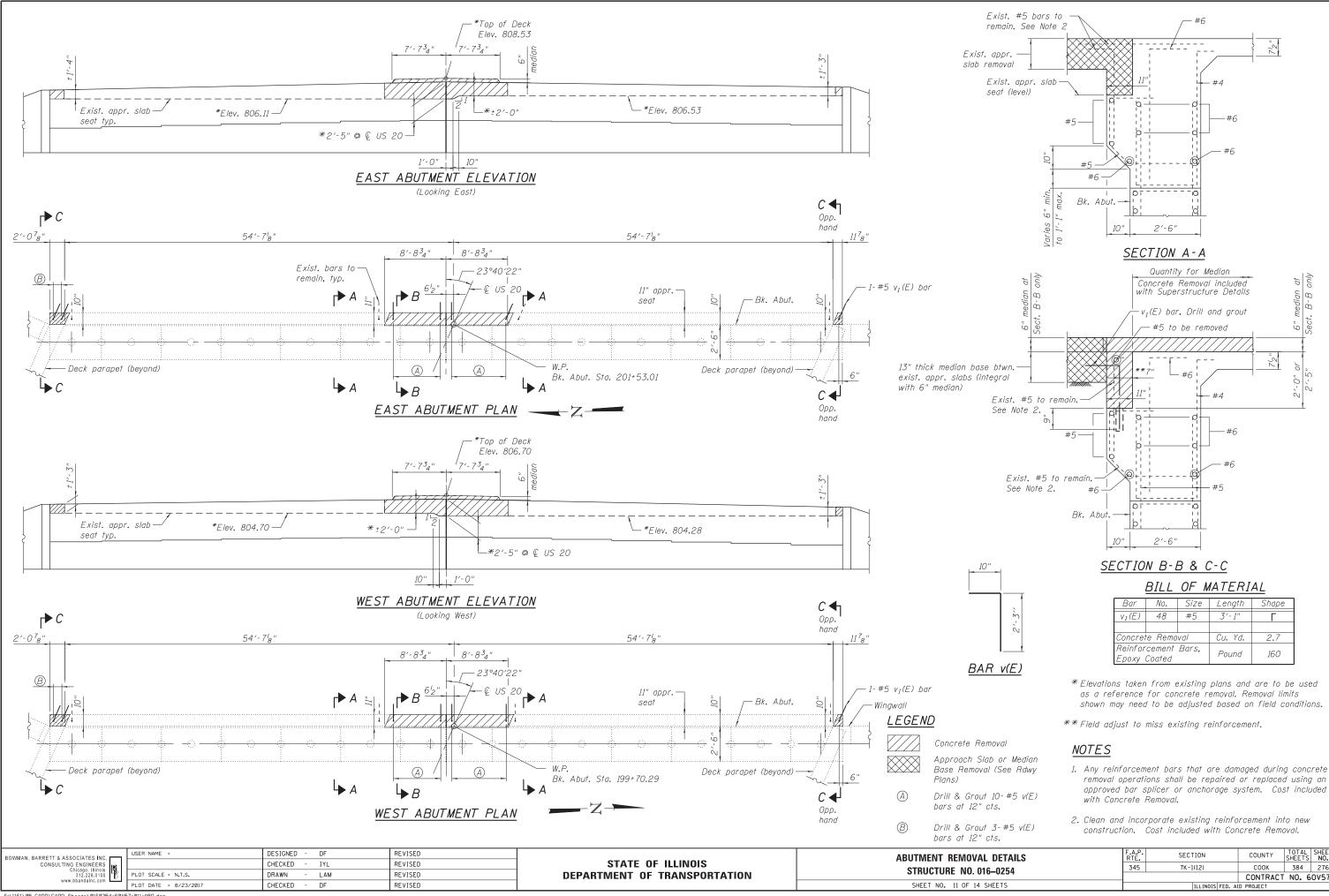
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Par	No	Cizo	Longth	Shape
		-		
		-		
014(E)	48	#6	6'-6"	
b10(E)		,		
b ₁₁ (E)		-		د
		,		
b13(E)	4	#4	14'-4"	
		_	3'-7"	E E
	136	_		(
dio(E)	68			Δ
$d_{ll}(E)$	68	#5	7′-11″	Δ
e ₁₁ (E)	60	#4		
e ₁₂ (E)	4	#8		
e13(E)	4	#4	29'-8"	
e14(E)	4	#8	29′-8″	
t10(E)	420	#4	10′-7″	
W10(E)	160	#5	33′-6″	
WII(E)	80	#5	43'-4"	
Bridge [Deck Groov	ing	Sq. Yd.	628
Protectiv	re Coat		Sq. Yd.	834
Concrete	Superstru	icture	Cu. Yd.	335.6
(Approac	h Slab)			
Concrete	Structure	S	Cu. Yd.	69.6
Reinforc	ement Bar.	s,	Dound	82,260
Epoxy C	oated		Pound	02,200
Concrete	Superstru	icture	Cu. Yd.	17.9
	Bar a ₁₀ (E) a ₁₁ (E) a ₁₂ (E) a ₁₃ (E) a ₁₄ (E) b ₁₀ (E) b ₁₁ (E) b ₁₂ (E) b ₁₂ (E) d ₁ (E) d ₁ (E) d ₁ (E) d ₁ (E) e ₁₁ (E) e ₁₃ (E) e ₁₄ (E) e ₁₄ (E) m ₁₀	Bar No. ajo(E) 100 ajj(E) 184 ajz(E) 50 ajz(E) 92 aj4(E) 48 bjo(E) 166 bjj(E) 4 bjo(E) 4 bjz(E) 4 d(E) 136 dj(E) 68 dj1(E) 68 dj1(E) 60 ejz(E) 4 ejz(E) 4 model 60 ejz(E) 4 bj3(E) 4 bj3(E) 68 dj1(E) 60 ejz(E) 4 ejz(E) 4 model 4 bj0(E) 160 wij(E) 80 mil(E) 80 Bridge Deck Concrete Superstructure Reinforcement Barvet Concrete Superstructure Reinforcement Barvet <td>Bar No. Size $q_0(E)$ 100 #4 $q_{II}(E)$ 184 #5 $q_{I2}(E)$ 50 #4 $q_{I3}(E)$ 92 #5 $q_{I2}(E)$ 48 #6 $u_{I3}(E)$ 92 #5 $q_{I3}(E)$ 48 #6 $u_{I3}(E)$ 48 #9 $b_{I0}(E)$ 166 #4 $b_{I3}(E)$ 4 #4 $b_{I3}(E)$ 4 #4 $d(E)$ 136 #5 $d_{I}(E)$ 68 #5 $d_{I}(E)$ 68 #5 $d_{I}(E)$ 60 #4 $e_{IJ}(E)$ 60 #4 $e_{IJ}(E)$ 60 #4 $e_{IJ}(E)$ 4 #8 $e_{IJ}(E)$ 4 #4 $e_{IJ}(E)$ 4 #5 $m_{IJ}(E)$ 80 #5 $m_{IJ}(E)$ 80 #5 $m_{IJ}(E)$</td> <td>Bar No. Size Length $q_0(E)$ 100 #4 33'-6" $q_1(E)$ 184 #5 33'-6" $q_2(E)$ 50 #4 43'-4" $q_2(E)$ 92 #5 43'-4" $q_3(E)$ 92 #5 43'-4" $q_1(E)$ 48 #6 6'-6" $b_{10}(E)$ 166 #4 29'-8" $b_{11}(E)$ 488 #9 29'-9" $b_{12}(E)$ 4 #44 14'-4" $b_{12}(E)$ 4 #44 14'-4" $d(E)$ 136 #5 3'-7" $d_1(E)$ 136 #5 5'-7" $d_{12}(E)$ 60 #4 14'-8" $e_{12}(E)$ 60 #4 14'-8" $e_{13}(E)$ 4 #8 29'-8" $e_{13}(E)$ 4 #4 29'-8" $e_{14}(E)$ 4 #8 29'-8" $e_{14}(E)$ 4</td>	Bar No. Size $q_0(E)$ 100 #4 $q_{II}(E)$ 184 #5 $q_{I2}(E)$ 50 #4 $q_{I3}(E)$ 92 #5 $q_{I2}(E)$ 48 #6 $u_{I3}(E)$ 92 #5 $q_{I3}(E)$ 48 #6 $u_{I3}(E)$ 48 #9 $b_{I0}(E)$ 166 #4 $b_{I3}(E)$ 4 #4 $b_{I3}(E)$ 4 #4 $d(E)$ 136 #5 $d_{I}(E)$ 68 #5 $d_{I}(E)$ 68 #5 $d_{I}(E)$ 60 #4 $e_{IJ}(E)$ 60 #4 $e_{IJ}(E)$ 60 #4 $e_{IJ}(E)$ 4 #8 $e_{IJ}(E)$ 4 #4 $e_{IJ}(E)$ 4 #5 $m_{IJ}(E)$ 80 #5 $m_{IJ}(E)$ 80 #5 $m_{IJ}(E)$	Bar No. Size Length $q_0(E)$ 100 #4 33'-6" $q_1(E)$ 184 #5 33'-6" $q_2(E)$ 50 #4 43'-4" $q_2(E)$ 92 #5 43'-4" $q_3(E)$ 92 #5 43'-4" $q_1(E)$ 48 #6 6'-6" $b_{10}(E)$ 166 #4 29'-8" $b_{11}(E)$ 488 #9 29'-9" $b_{12}(E)$ 4 #44 14'-4" $b_{12}(E)$ 4 #44 14'-4" $d(E)$ 136 #5 3'-7" $d_1(E)$ 136 #5 5'-7" $d_{12}(E)$ 60 #4 14'-8" $e_{12}(E)$ 60 #4 14'-8" $e_{13}(E)$ 4 #8 29'-8" $e_{13}(E)$ 4 #4 29'-8" $e_{14}(E)$ 4 #8 29'-8" $e_{14}(E)$ 4

SLAB DETAILS	F.A.P. RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.		
016–0254	345	7K-1(12)	СООК	384	274		
. 010-0234	CONTRACT NO. 60V57						
14 SHEETS		ILLINOIS FED. AI	D PROJECT				



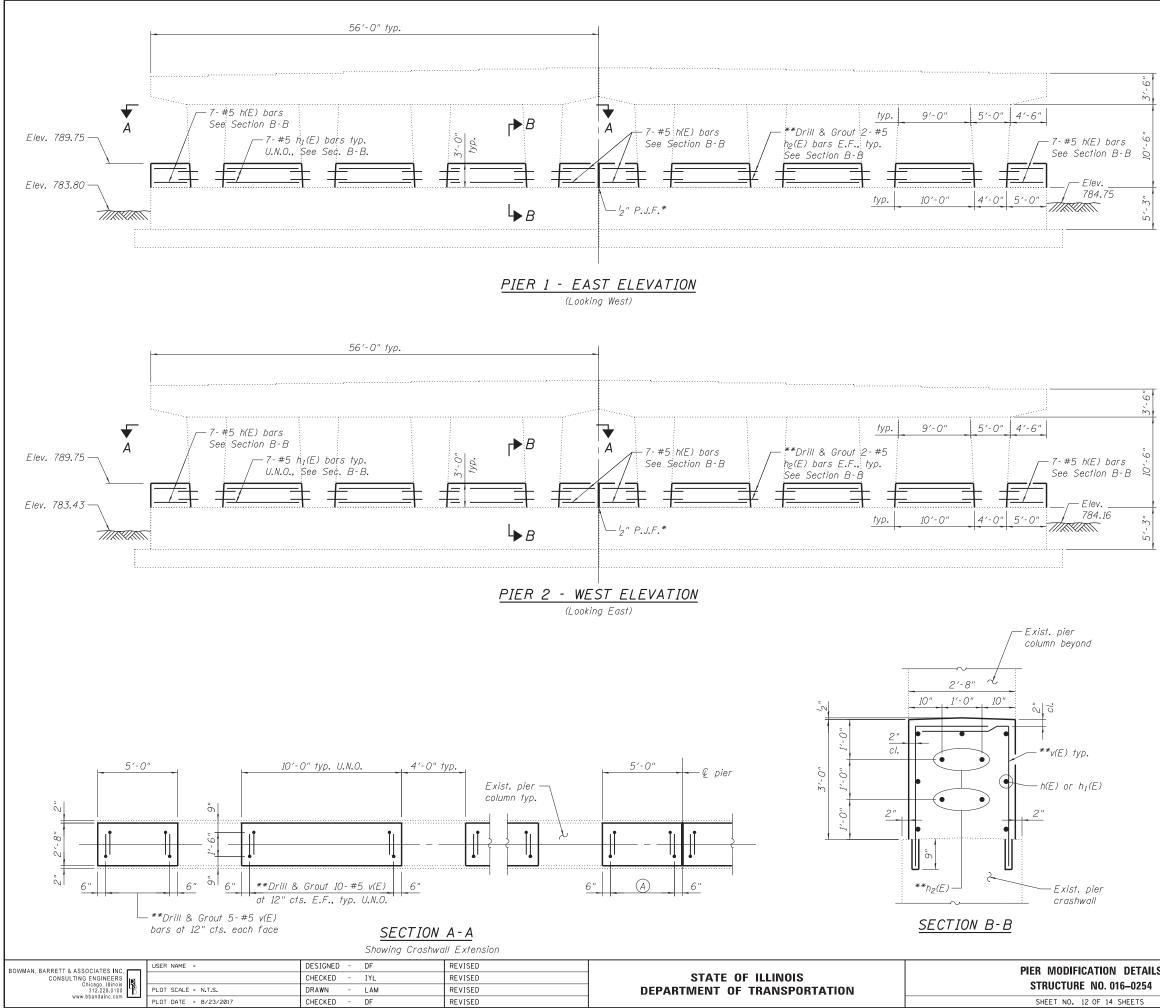
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- removal operations shall be repaired or replaced using an approved bar splicer or anchorage system. Cost included

VAL DETAILS	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.		
016–0254	345	7K-1(12)	COOK	384	276		
010-0234	CONTRACT NO. 60V57						
14 SHEETS		ILLINOIS FED. A	D PROJECT				



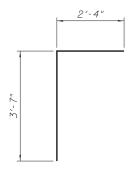
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PIER 1 & 2 MODIFICATION BILL OF MATERIAL

Bar	No.	Size	Length	Shape
h(E)	56	#5	4′-8″	
$h_I(E)$	84	#5	9′-8″	
$h_2(E)$	128	#5	5′-6″	
v(E)	320	#5	5′-11″	Г
Concrete Structures			Cu. Yd.	48.1
Reinforcement Bars, Epoxy Coated			Pound	3,830

NOTES

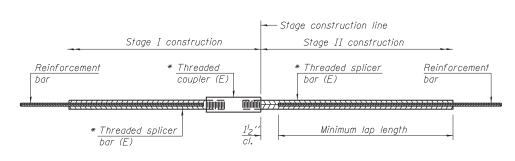
- 1. Complete structural repair of concrete prior to performing Pier Modification. See sheet 10 for pier repair details.
- * Cost of PJF shall be included with Concrete Structures.
- ** Drilling and epoxy grouting in accordance with Article 584 of the Standard Specifications. Contractor shall locate exist. column & crashwall bars and space $h_2(E)$ bars to miss. Cost included with Reinforcement Bars, Epoxy Coated.



BAR V(E)

ON DETAILS	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
. 016–0254	345	7K-1(12)	СООК	384	277	
. 010-0234	CONTRACT NO. 60V57					
14 SHEETS		ILLINOIS FED. A	D PROJECT			

	3'-6"
bars B-B	10'-6"
6	5'-3"

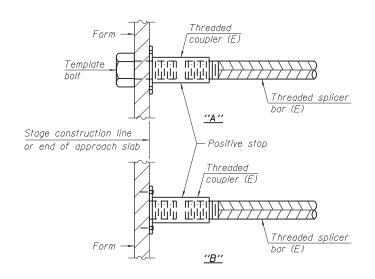


STANDARD BAR SPLICER ASSEMBLY

Threaded splicer bar length = min. lap length + 1_2^{l} ^{''} + thread length

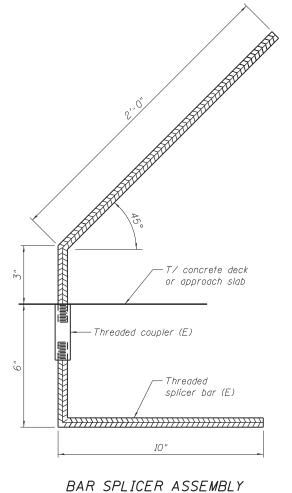
* Epoxy not required on Bar Splicer Assembly components used in conjunction with black bars.

Location	Bar size	No. assemblies required	Minimum Iap length
Appr. Slab Ftg.	5	160	3′-4″
Appr. Slab	4	100	2'-7"
Appr. Slab	5	184	3′-4″



INSTALLATION AND SETTING METHODS

"A" : Set bar splicer assembly by means of a template bolt. "B" : Set bar splicer assembly by nailing to wood forms or cementing to steel forms. (E) : Indicates epoxy coating.

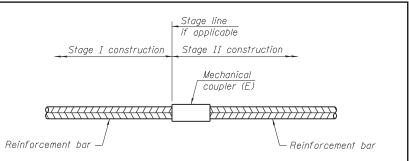


BAR SPLICER ASSEMBLY <u>FOR #5 d1(E) BAR</u>

No. required = 502

BOWMAN BARRETT & ASSOCIATES	USER NAME =	DESIGNED - DF	REVISED		BAR SPLICER ASSEMBLY AND MECHANICAL SPLICER DETAILS	F.A.P. RTF	SECTION	COUNTY	TOTAL	SHEET NO.
CONSULTING ENGINE		CHECKED - IYL	REVISED	STATE OF ILLINOIS		345	7K-1(12)	соок	384	278
312.228.	PLOT SCALE = N.T.S.	DRAWN - LAM	REVISED	DEPARTMENT OF TRANSPORTATION	STRUCTURE NO. 016–0254			CONTRAC	T NO. 6	0V57
www.bbandainc	PLOT DATE = 8/23/2017	CHECKED - DF	REVISED				AID PROJECT			

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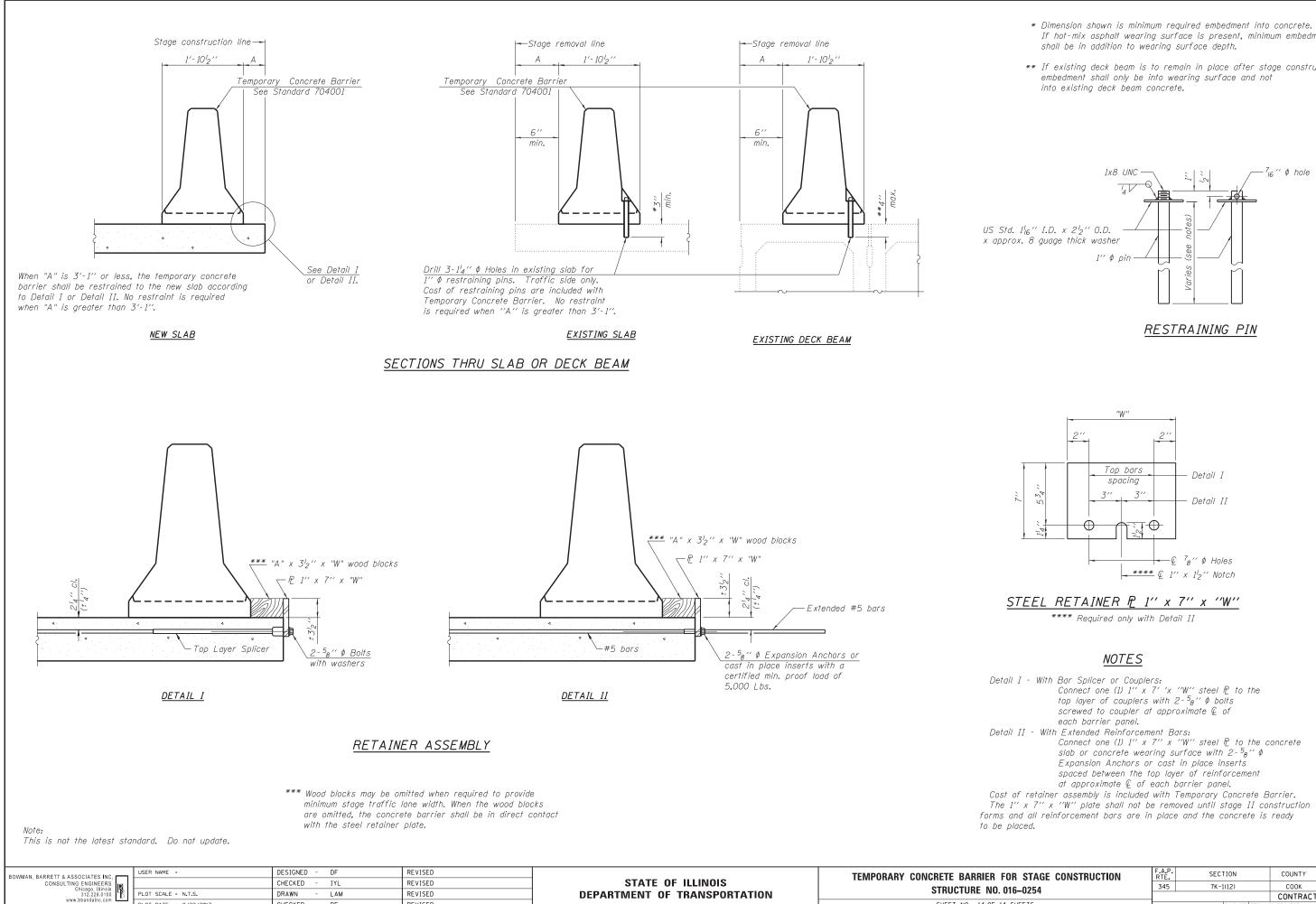
STANDARD MECHANICAL SPLICER

Location	Bar size	No. assemblies required



Splicer bars shall be deformed with threaded ends and have a minimum 60 ksi yield strength.

All reinforcement shall be lapped and tied to the splicer bars. Bar splicer assemblies shall be epoxy coated according to the requirements for reinforcement bars. See Section 508 of the Standard Specifications. See approved list of bar splicer assemblies and mechanical splicers for alternatives.



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PLOT DATE = 8/23/2017

CHECKED - DE

REVISED

SHEET NO. 14 OF 1

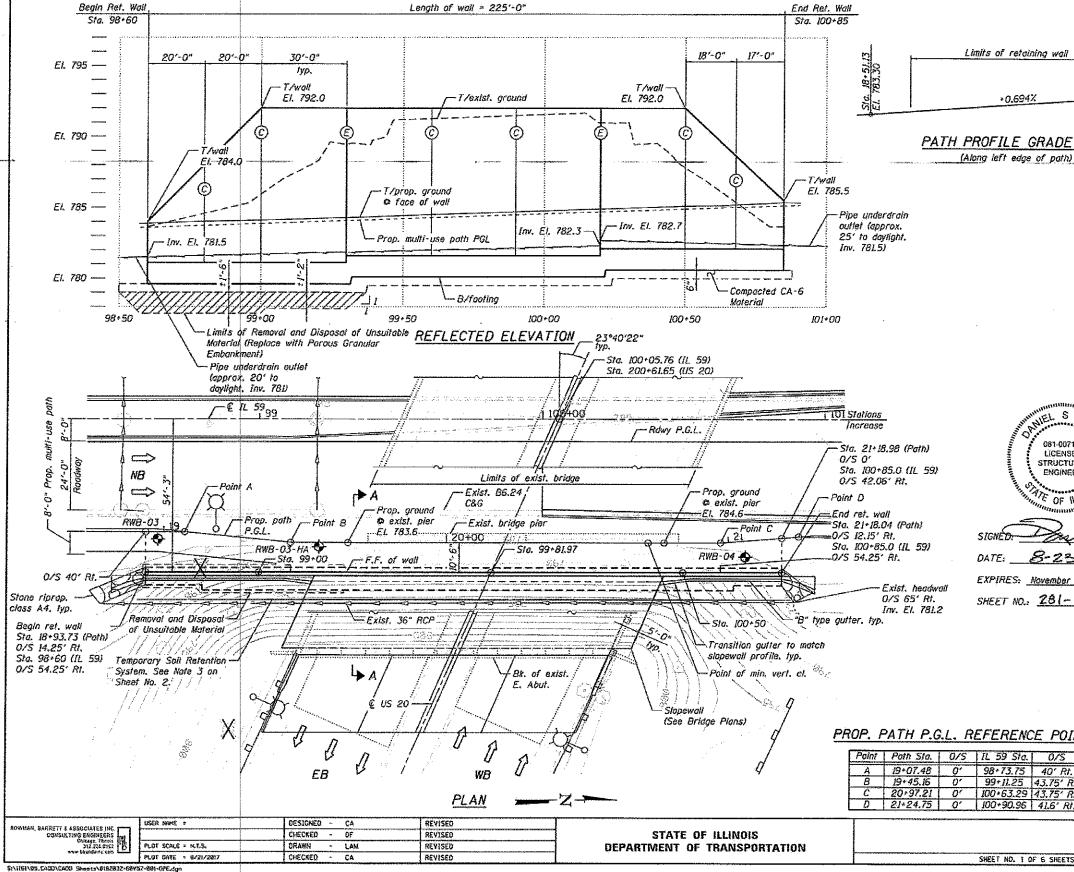
- If hot-mix asphalt wearing surface is present, minimum embedment
- ** If existing deck beam is to remain in place after stage construction,

etail I - With Be	ar Splicer or Couplers:
C	onnect one (1) 1'' x 7' 'x ''W'' steel 🖻 to the
to	p layer of couplers with 2- ⁵ β΄΄ φ bolts
S	crewed to coupler at approximate Q of
e	ach barrier panel.
etail II - With E	Extended Reinforcement Bars:
С	onnect one (1) 1'' x 7'' x ''W'' steel 🖻 to the concrete
Si	lab or concrete wearing surface with 2-5 ₈ 77 \$
Ε	xpansion Anchors or cast in place inserts
S	paced between the top layer of reinforcement
đi	t approximate 🛿 of each barrier panel.
ost of retainer of	assembly is included with Temporary Concrete Barrier.
he 1′′ x 7′′ x ′′	W'' plate shall not be removed until stage II construction
ns and all reinfo	present bars are in place and the concrete is ready

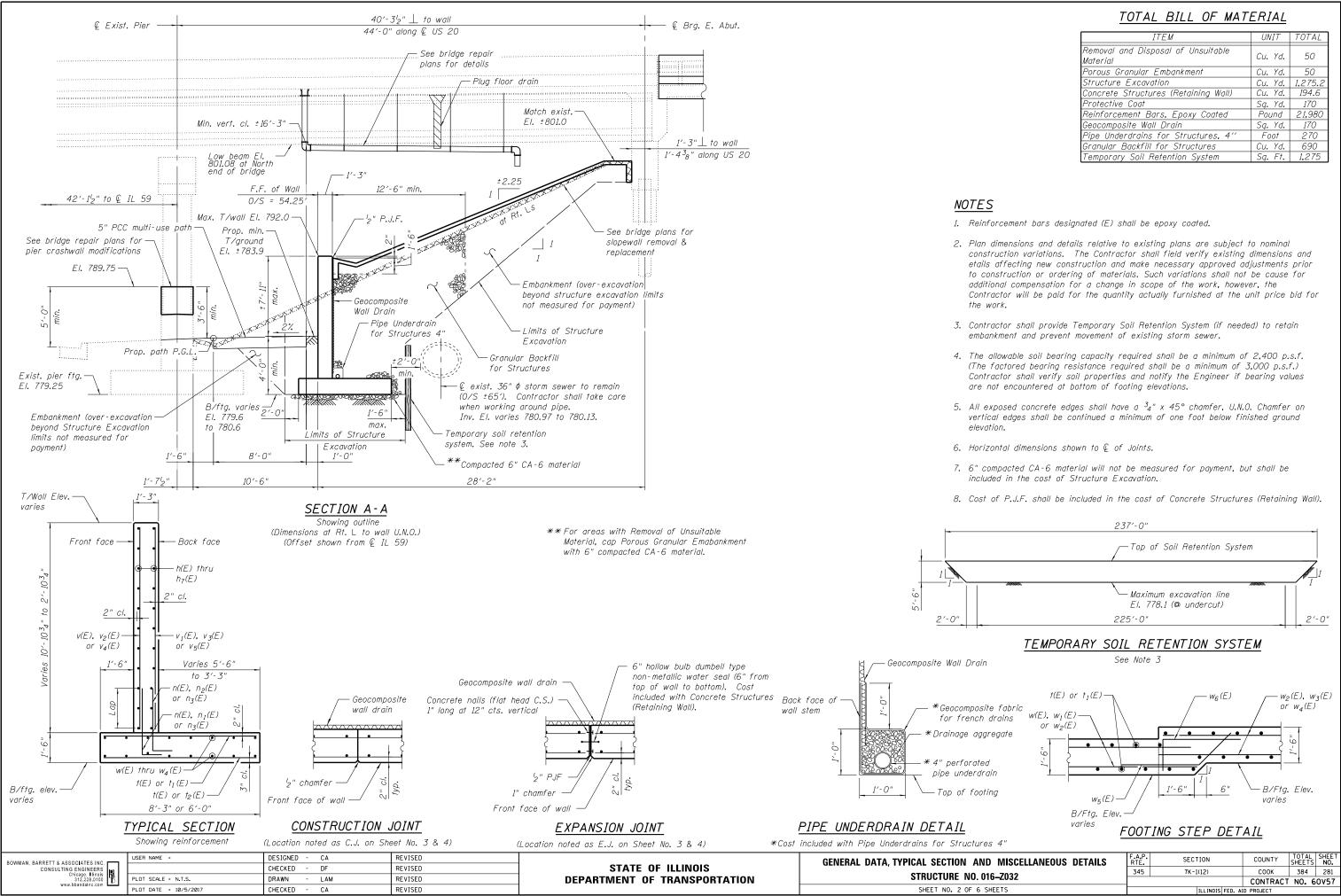
FOR STAGE CONSTRUCTION	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
. 016–0254	345	7K-1(12)	COOK	384	279
. 010-0234			CONTRACT	NO. 6	0V57
14 SHEETS		ILLINOIS FED. AI	D PROJECT		

Benchmark: Cut "[]" on top of the southwest parapet of the US 20/11 59 bridge. Elev. 808.39.

Existing Structure: S.N. 016-0254 carrying US 20 over IL 59 was built in 1990 as part of Project No. IX-21(52). The structure is a three-span bridge with an overall bk. to bk, abutment length of $\pm 182^{\circ}$ -9" and out to out deck width of 103'-2". The superstructure consists of a T_2° thick reinforced concrete deck supported by 54" deep PPC I-beams. The substructure consists of multi-column piers with crashwall founded on spread footings, and integral abutments founded on 14" ϕ metal shell piles. The existing slopewall will be removed and replaced to accommodate the proposed retaining wall. No retaining wall currently exists. Traffic will be maintained on IL 59 & US 20 during construction.

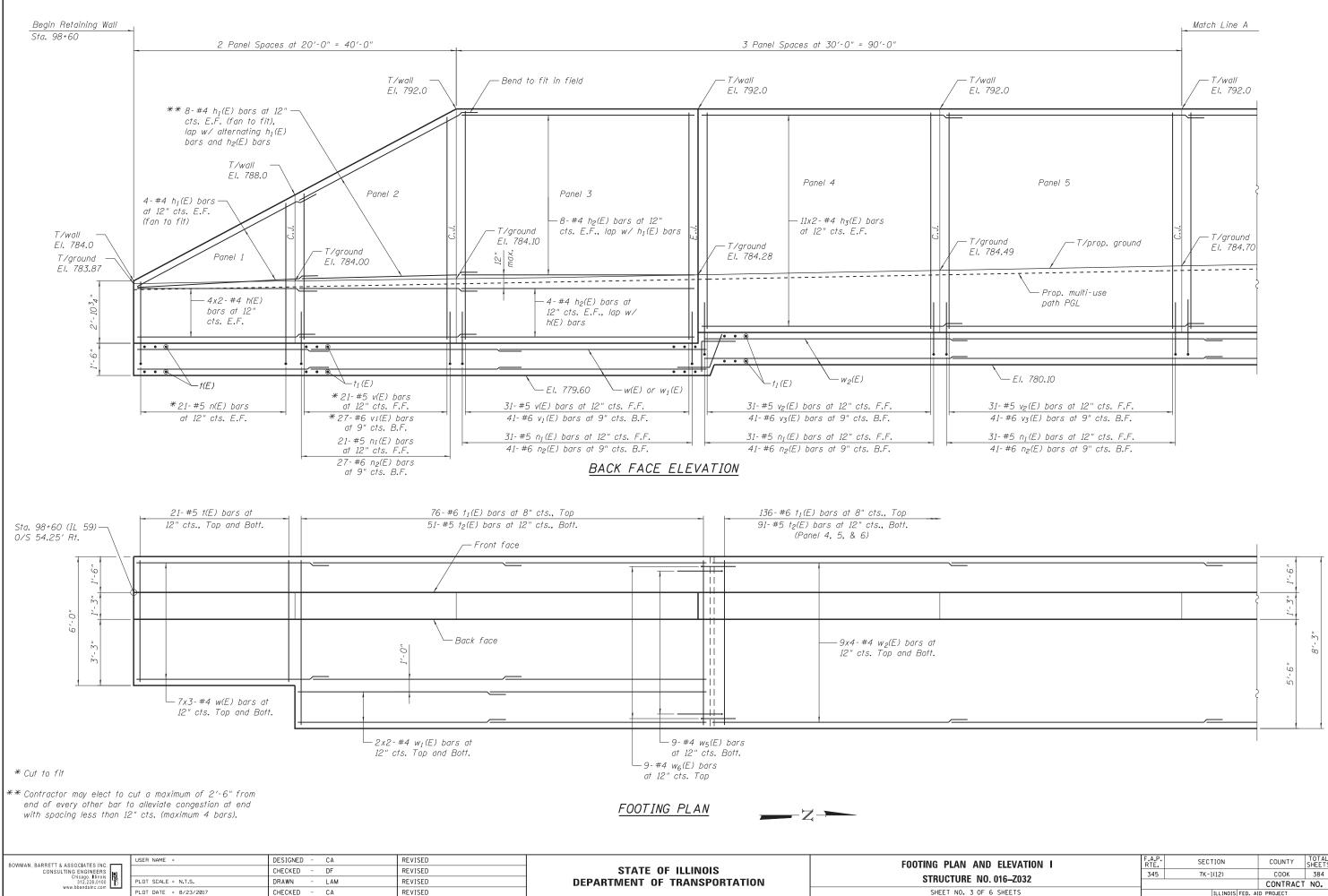


	INDEX OF DRAWINGS	
	 General Plan and Elevation General Data, Typical Section & Miscellaneous Details Fooling Plan and Elevation I Footing Plan and Elevation II Soll Baring Logs I Soil Boring Logs II 	
63	DESIGN SPECIFICATIONS	
21+46. 85.35	2014 AASHTO LRFD Specifications, 7th Edition with 2015 AASHTO Interim Revisions	
Sta. El.	DESIGN STRESSES	
E LINE	<u>FIELD UNITS</u> f'e = 3,500 psi fy = 60,000 psi	
<u></u> N	TECENO	
	<u>L'EGEND</u>	
	E C = Exp. Jt., Const. Jt.	
	Sail Bosing	
	o——————————————————————————————————	
	= Prop. Pipe Underdrain	
	= Exist. Storm Sever	
	A = Exist. Light Fole Removal	
	NOTES	
	I. See sheet 2 for Section A-A.	
S S S S S S S S S S S S S S S S S S S	APPROVED For Structural Adequacy Only	
111100 111100 111100 111100 111100 111100 111100 111100 111100 111100 111100 111100 111100 111100 111100 111100 111100 111100 111100 111100 111100 111100 111100 111100 111100 111100 111100 111100 111100 111100 111100 111100 111100 111100 111100 111100 111100 111100 111100 111100 111100 111100 111100 111100 111100 111100 111100 111100 111100 111100 111100 111100 111100 111100 111100 111100 111100 111100 111100 111100 111100 111100 111100 111100 111100 111100 111100 111100 111100 111100 111100 111100 111100 111100 111100 111100 111100 111100 111100 111100 111100 111100 111100 111100 111100 111100 111100 111100 111100 111100 111100 111100 111100 111100 111100 111100 111100 111100 111100 111100 111100 111100 111100 111100 111100 111100 111100 111100 111100 111100 111100 111100 111100 111100 111100 111100 111100 111100 111100 111100 111100 111100 111100 111100 111100 111100 111100 111100 111100 111100 111100 111100 111100 111100 111100 111100 111100 111100 111100 111100 111100 111100 111100 111100 111100 111100 111100 111100 111100 111100 111100 111100 111100 111100 111100 111100 111100 111100 111100 111100 111100 111100 111100 111100 111100 111100 111100 111100 111100 111100 111100 111100 111100 111100 111100 111100 111100 111100 111100 111100 111100 111100 111100 111100 111100 111100 111100 111100 111100 111100 111100 111100 111100 111100 111100 111100 111100 111100 111100 111100 111100 111100 111100 111100 111100 111100 111100 111100 111100 111100 111100 111100 111100 111100 111100 111100 111100 111100 111100 111100 111100 111100 111100 111100 111100 111100 111100 111100 111100 111100 111100 111100 111100 111100 111100 111100 111100 111100 111100 111100 111100 111100 111100 111100 111100 111100 111100 111100 111100 111100 111100 111100 111100 111100 111100 111100	Proposed structure LOCATION SKETCH	
DINTS T. T. Rf. Rf. Rf. Rf.	<u>GENERAL PLAN AND ELEVATION</u> <u>U.S. ROUTE 20 OVER IL ROUTE 59</u> <u>A.P. RTE. 338 & 345 - SEC. 7K-1(12)</u> <u>COOK COUNTY</u> <u>STA. 98+60 TO 100+85</u> <u>SN 016-Z032</u>	And and a second se
		· ·
	F.A.P. SECTION COUNTY TOTAL SHEET RTE. SECTION COUNTY SHEETS NO. 345 78-1020 CODK 384 280	
ETS.	F.A.P. RTE. SECTION COUNTY TOTAL SHEETS SHEET NO. 345 7K-HI23 COOK 384 200 CONTRACT NO. 60V57 JALINDISFED. ALD PROJECT	



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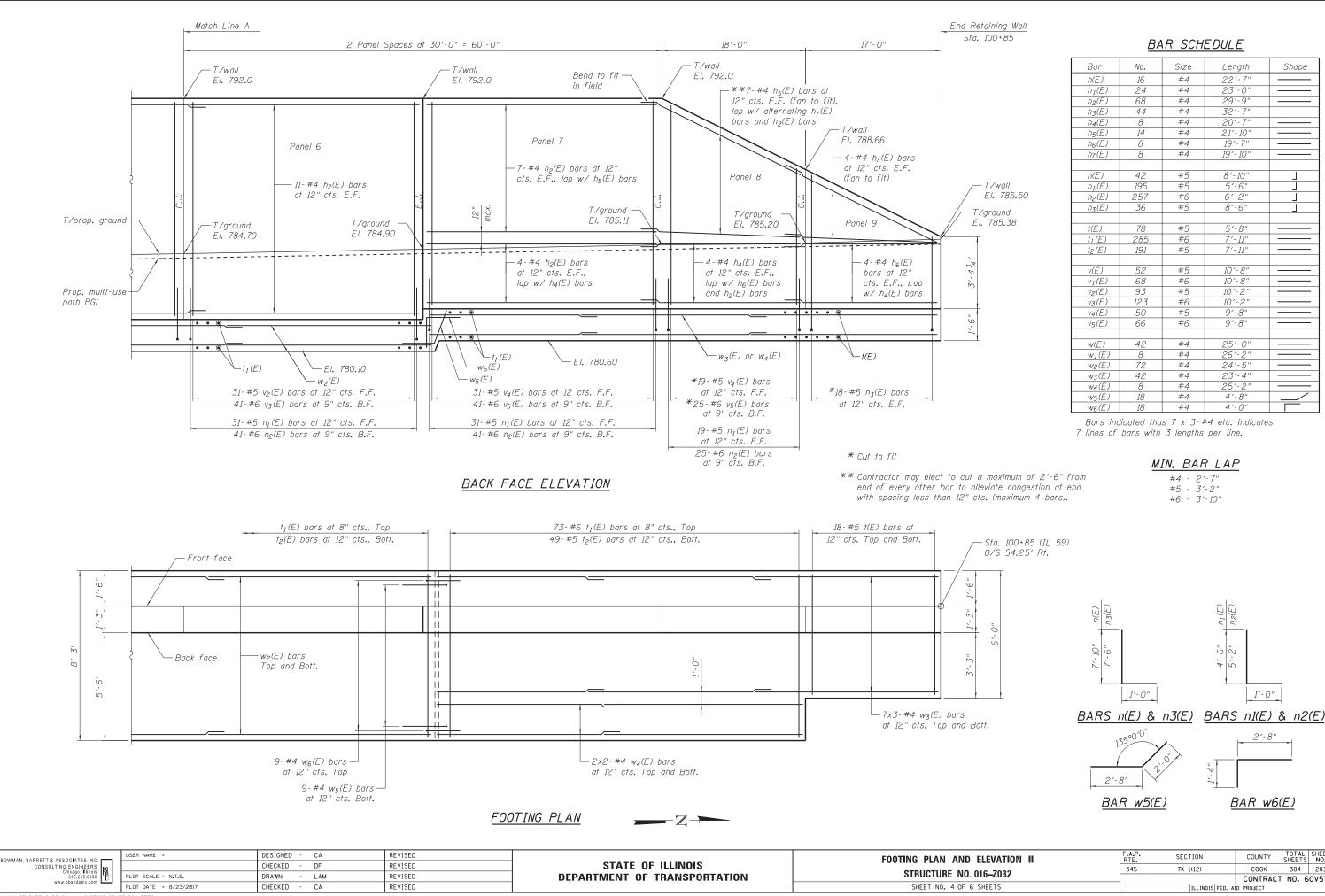
ITEM	UNIT	TOTAL
Removal and Disposal of Unsuitable Material	Cu. Yd.	50
Porous Granular Embankment	Cu. Yd.	50
Structure Excavation	Cu. Yd.	1,275.2
Concrete Structures (Retaining Wall)	Cu. Yd.	194.6
Protective Coat	Sq. Yd.	170
Reinforcement Bars, Epoxy Coated	Pound	21,980
Geocomposite Wall Drain	Sq. Yd.	170
Pipe Underdrains for Structures, 4''	Foot	270
Granular Backfill for Structures	Cu. Yd.	690
Temporary Soil Retention System	Sq. Ft.	1,275



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SHEET NO. 3 OF 6

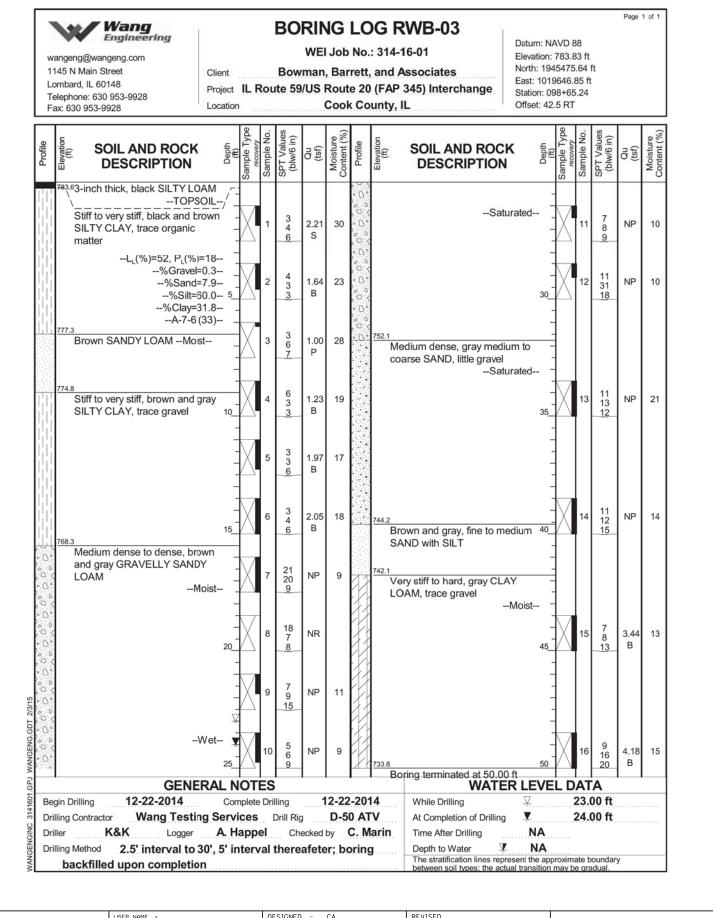
) ELEVATION I	F.A.P. RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
. 016–Z032	345	7K-1(12)	СООК	384	282
. 010-2032			CONTRACT	NO. 6	0V57
6 SHEETS		ILLINOIS FED. AI	D PROJECT		

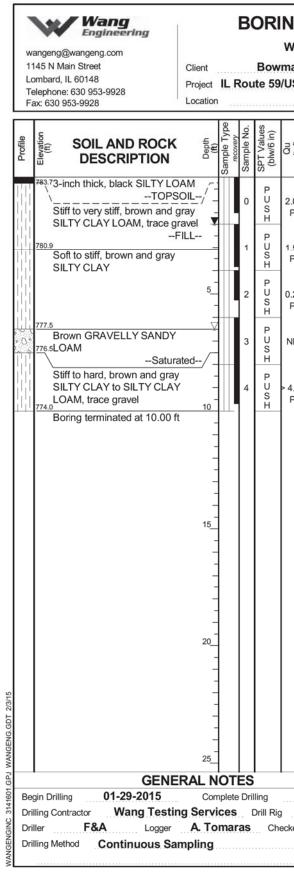


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Bar	No.	Size	Length	Shape
h(E)	16	#4	22'-7"	
$h_I(E)$	24	#4	23'-0"	
h ₂ (E)	68	#4	29'-9"	
h3(E)	44	#4	32'-7"	
h4(E)	8	#4	20'-7"	
h5(E)	14	#4	21'-10"	
h ₆ (E)	8	#4	19'- 7"	
h7(E)	8	#4	19′-10″	
n(E)	42	#5	8'-10"	
$n_1(E)$	195	#5	5′-6″	
n ₂ (E)	257	#6	6'-2"	
n3(E)	36	#5	8'-6"	
†(E)	78	#5	5′-8″	
$t_1(E)$	285	#6	7'-11"	
t2(E)	191	#5	7'-11"	
v(E)	52	#5	10'-8"	
v1(E)	68	#6	10'-8"	
v2(E)	93	#5	10'-2"	
v3(E)	123	#6	10'-2"	
V4(E)	50	#5	9′-8″	
v5(E)	66	#6	9′-8″	
w(E)	42	#4	25'-0"	
w1(E)	8	#4	26'-2"	
w2(E)	72	#4	24'-5"	
w3(E)	42	#4	23'-4"	
W4(E)	8	#4	25'-2"	
w5(E)	18	#4	4'-8"	\vdash

ELEVATION II	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
016–Z032	345	7K-1(12)	COOK	384	283
. 010-2032			CONTRACT	NO. 6	0V57
6 SHEETS		ILLINOIS FED. AI	D PROJECT		





BOWMAN, BARRETT & ASSOCIATES INC. CONSULTING ENGINEERS Chicago, Illinois 323,228,0100 www.bbandainc.com	USER NAME = PLOT SCALE = N.T.S.	DESIGNED - CA CHECKED - DF DRAWN - LAM	REVISED REVISED REVISED	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SOIL BORING LOG Structure no. 016
	PLOT DATE = 8/23/2017	CHECKED - CA	REVISED		SHEET NO. 5 OF 6 SHE
CALIFILME CAND. CAND. Chantel 0167022-6016	57-005-CD01 dee				

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BORING LOG RWB-03-HA

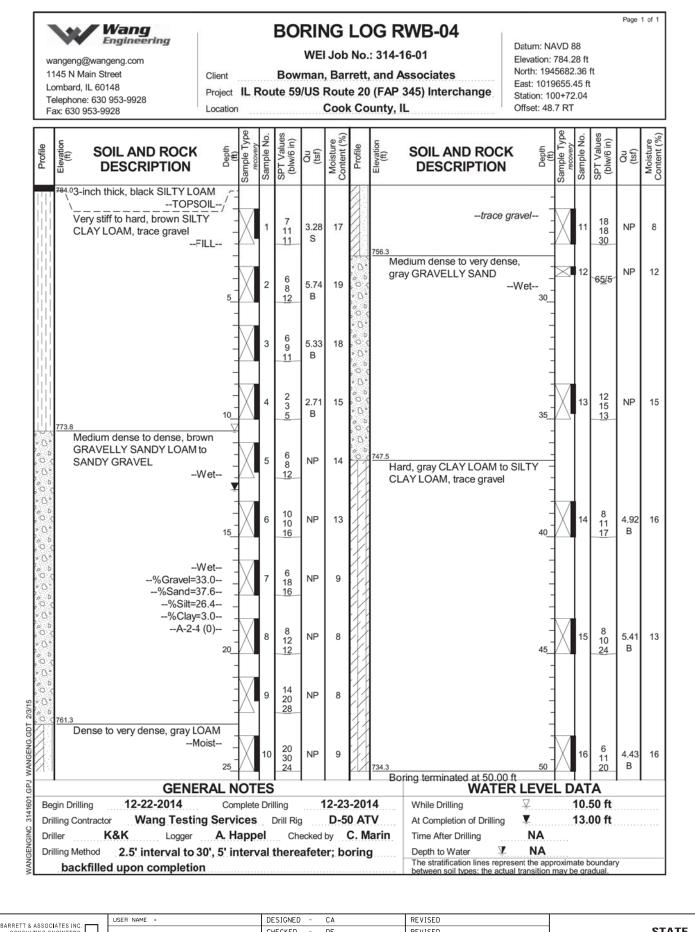
WEI Job No.: 314-16-01

Bowman, Barrett, and Associates Project IL Route 59/US Route 20 (FAP 345) Interchange Cook County, IL

Datum: NAVD 88 Elevation: 783.96 ft North: 1945531.52 ft East: 1019650.20 ft Station: 099+21.20 Offset: 45.2 RT

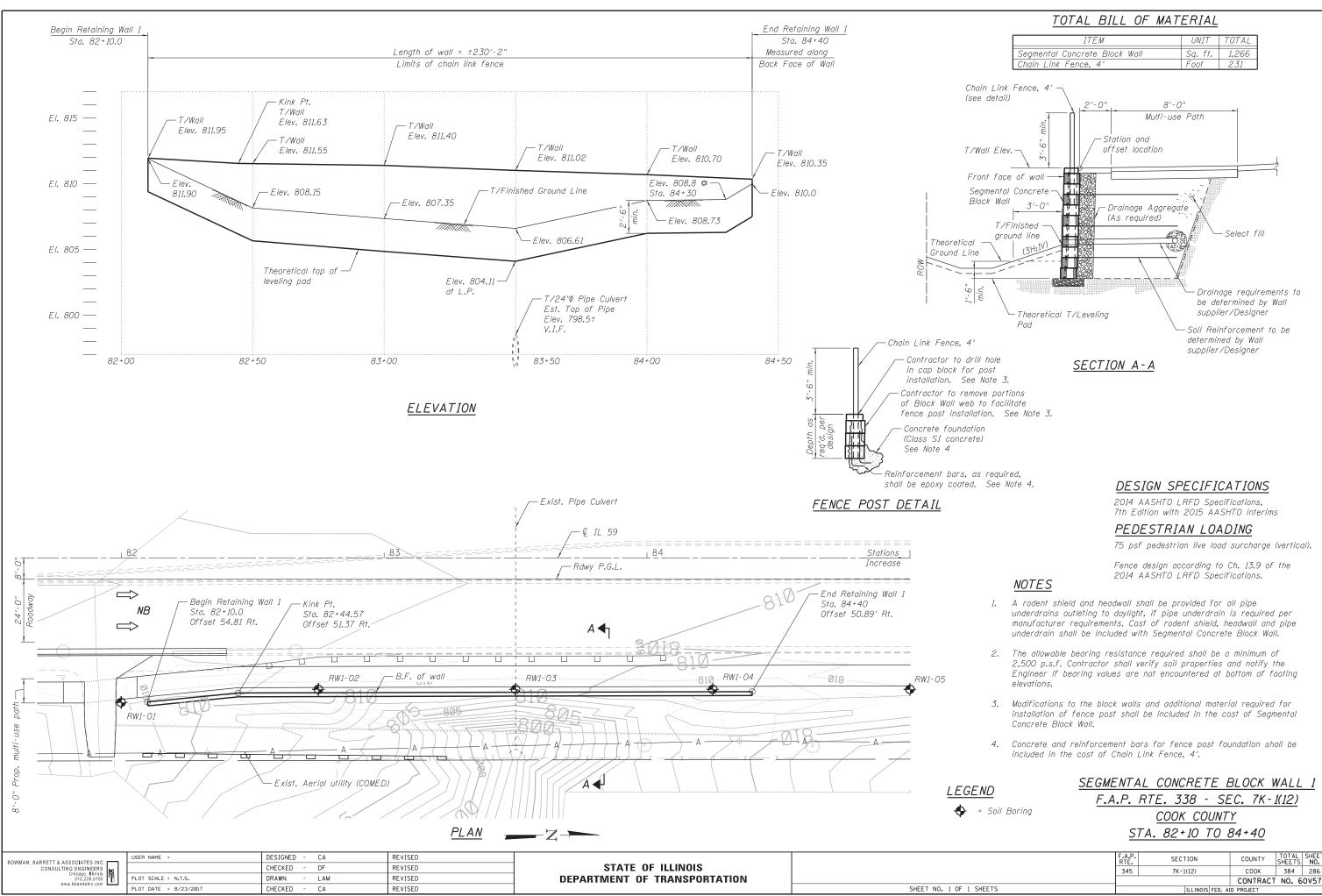
Page 1 of 1

(tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND DESCRIP	ROCK	Depth (ft)	Sample Type	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)		
2.00 P	15												
.50 P	28												
).25 P	31												
٧P	30												
4.50 P	18												
			-		VATER								
0)1-29			While Drilling		¥			0 ft				
kod	Geo by (At Completion of Time After Drillin	-	▼NA		2.0	0 ft				
ĸea	uy .	J. 1VI	al 111	Depth to Water	ng V	NA							
				The stratification between soil type	lines represe	ent the app	roxima nav be	ate b e gra	oundar dual.	y			
					F.A.P.		101-			001	, Тт	ΟΤΔΙ	SHEF
	IS I				RTE. 345	SECT 7K-1				COUNT		OTAL IEETS 384	SHEE NO. 284
	-Z032	2			545					ONTR			
SHEETS					ILLINO	S FE	D. AID P						

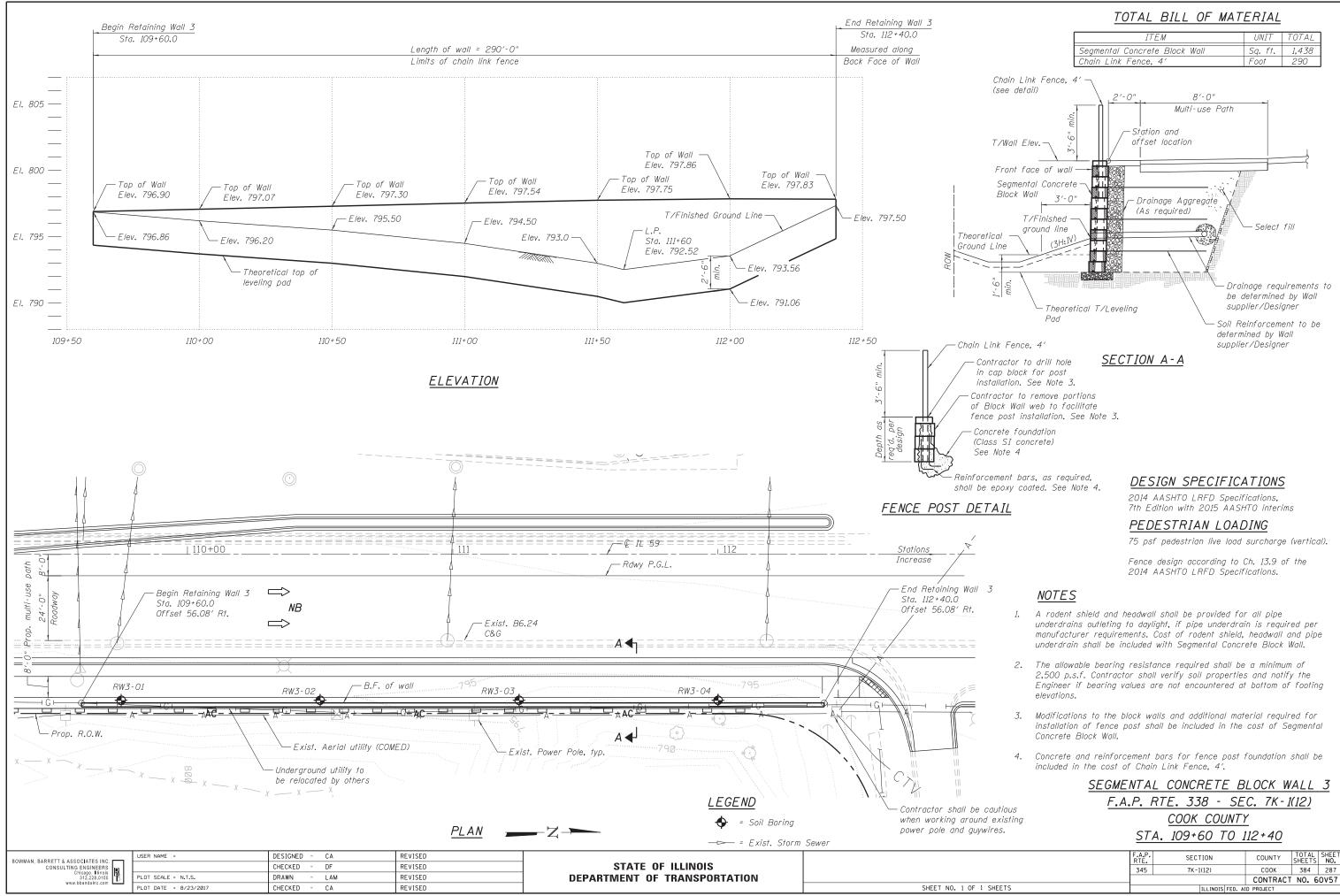


BOWMAN, BARRETT & ASSOCIATES INC	USER NAME =	DESIGNED -	CA	REVISED		SOIL BORING LOGS II	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEET SHEETS NO.
CONSULTING ENGINEERS Chicago, Illinois		CHECKED -	DF	REVISED	STATE OF ILLINOIS	STRUCTURE NO. 016–Z032	345	7K-1(12)	СООК	384 285
312.228.0100 🖺	PLOT SCALE = N.T.S. PLOT DATE = 8/23/2017	DRAWN - CHECKED -	LAM CA	REVISED	DEPARTMENT OF TRANSPORTATION	SHEET NO. 6 OF 6 SHEETS		ILL INDIS FED. A		CT NO. 60V57
		CHECKED -	СА	REVISED		SHEET NO. 6 OF 6 SHEETS		ILLINOIS FED. A	ID PROJECT	

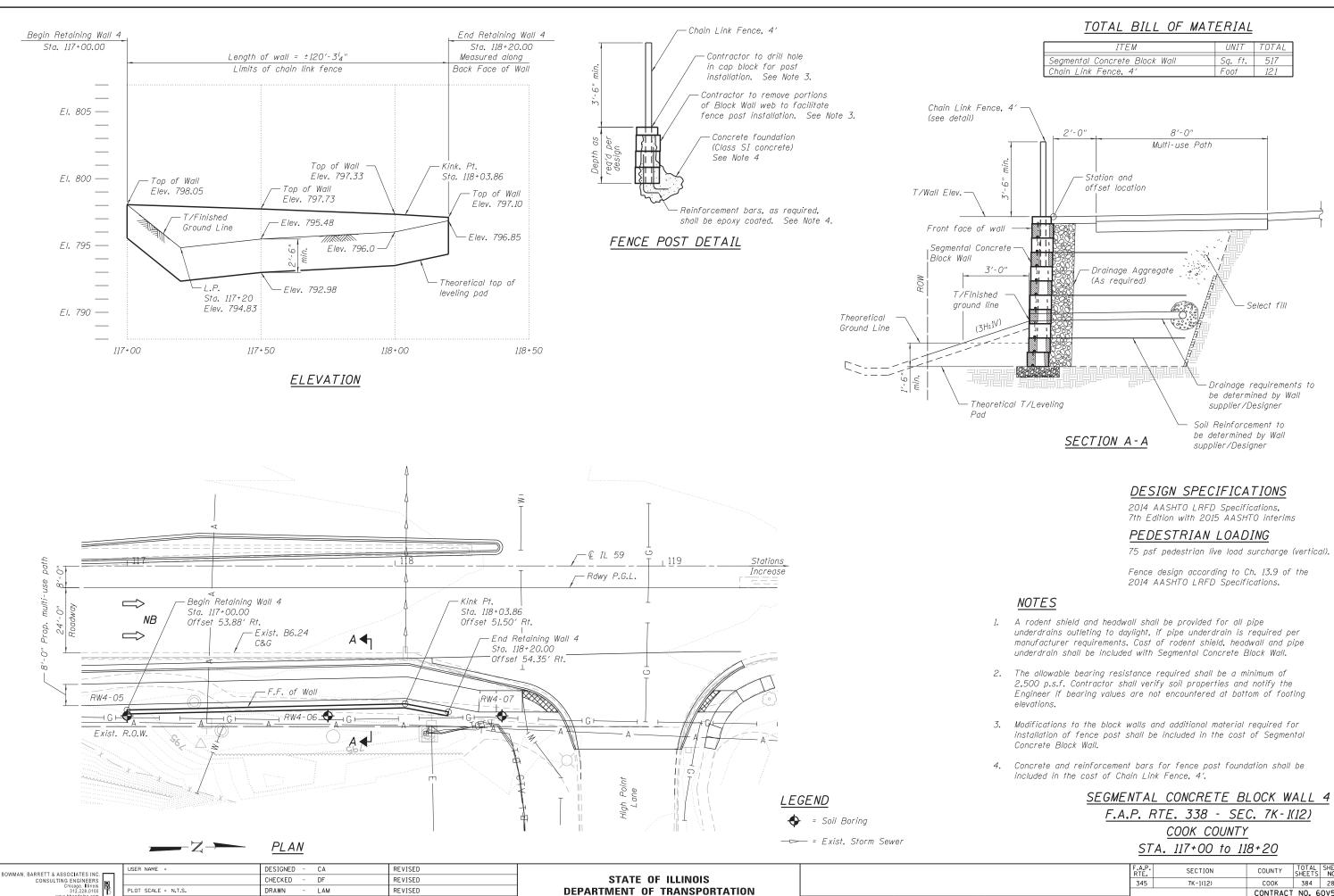
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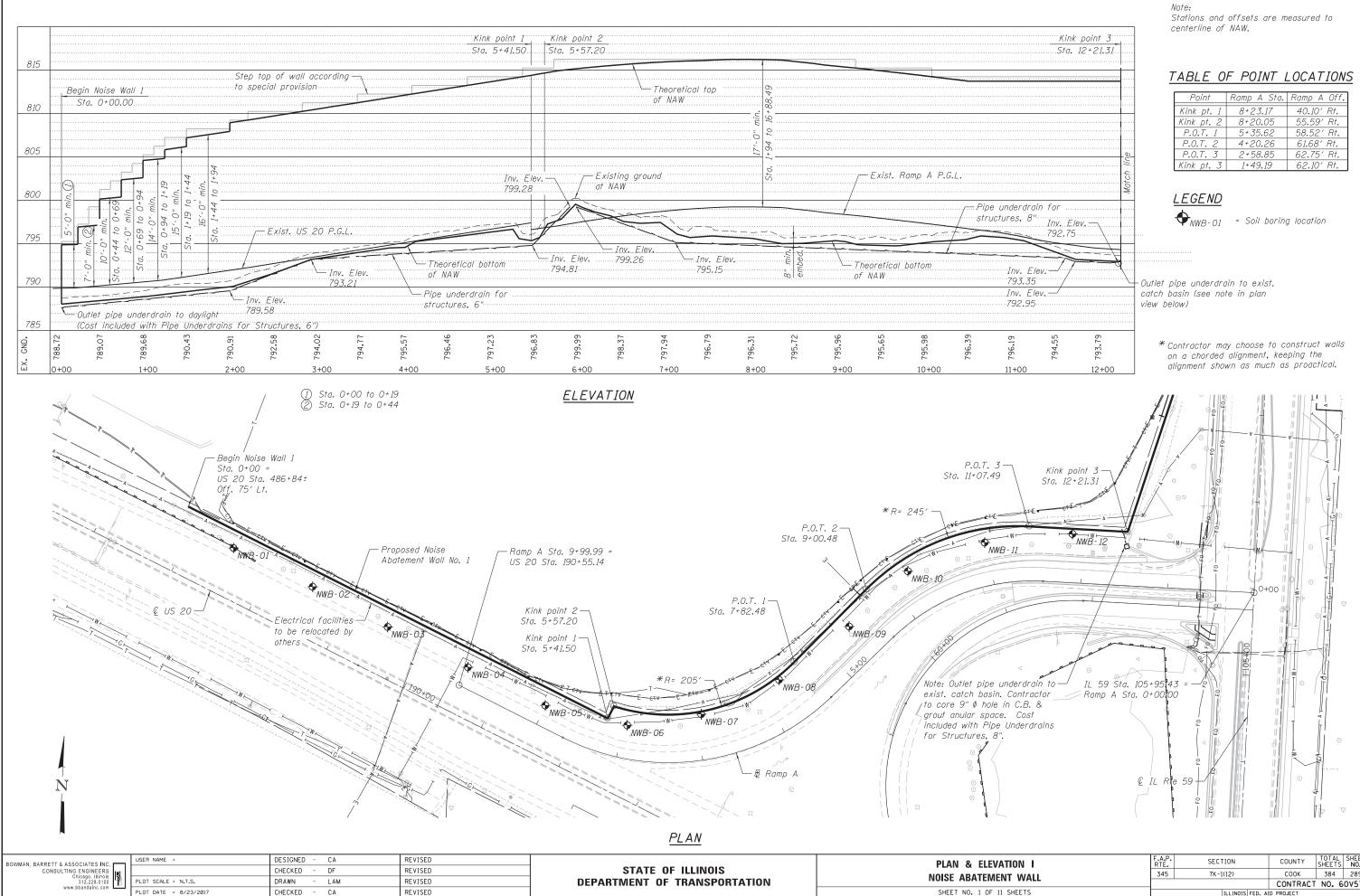
PLOT DATE = 8/23/2017

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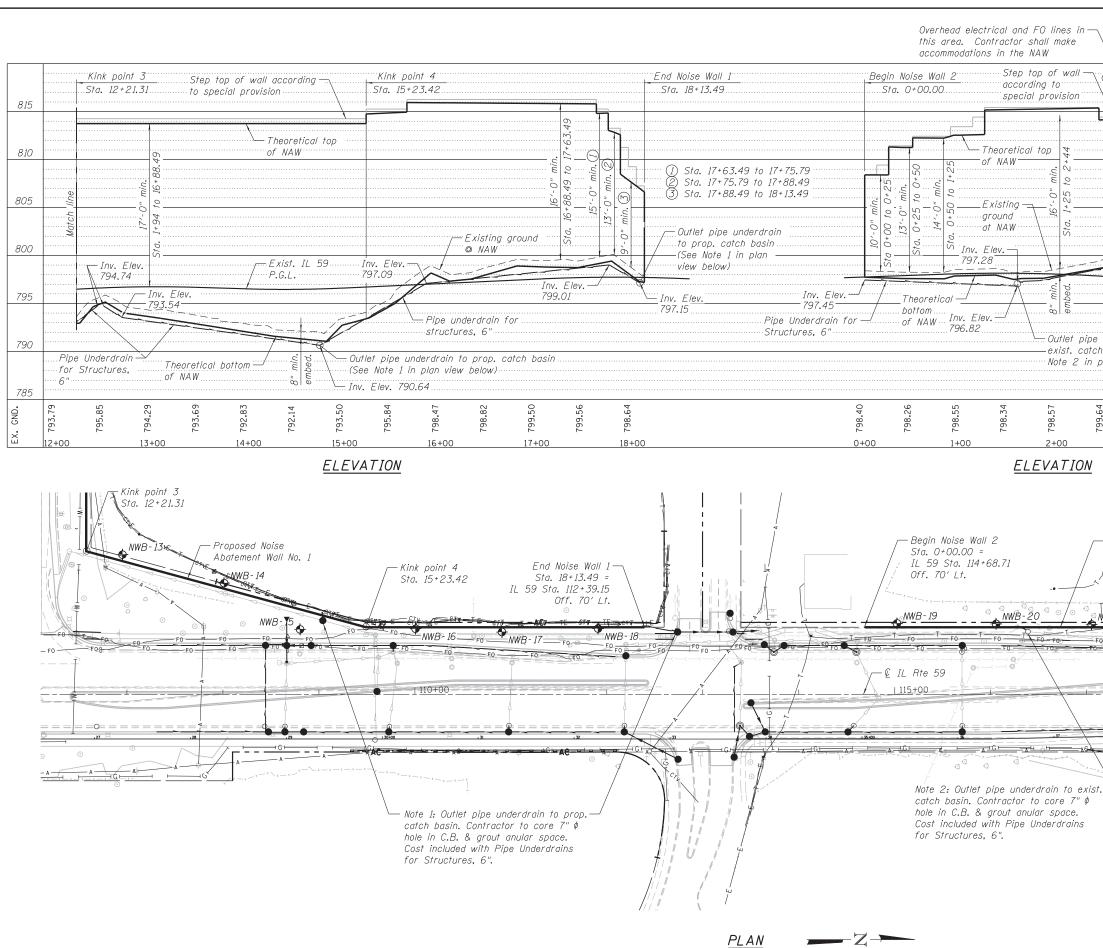
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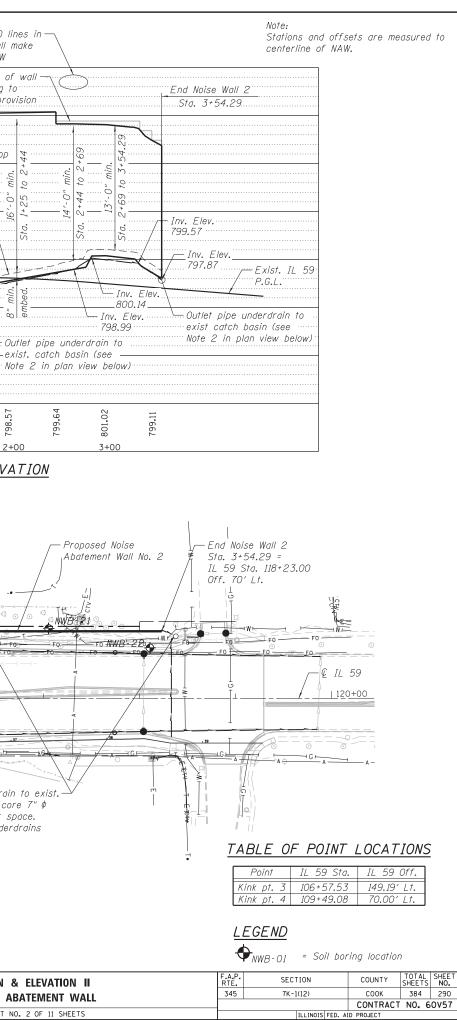
	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	345	7K-1(12)	СООК	384	288
			CONTRACT	NO. 6	0v57
SHEETS		ILLINOIS FED. A	ID PROJECT		



ATION I	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
ENT WALL	345	7K-1(12)	СООК	384	289
			CONTRACT	NO. 6	0V57
11 SHEETS		ILLINOIS FED.	AID PROJECT		



DESIGNED - CA REVISED USER NAME = PLAN & ELEVATION II OWMAN, BARRETT & ASSOCIATES INC. CONSULTING ENGINEERS Chicago, Illinois 312.228.0100 www.bbandainc.com STATE OF ILLINOIS CHECKED -DF REVISED NOISE ABATEMENT WALL LOT SCALE = N.T.S. DRAWN LAM REVISED **DEPARTMENT OF TRANSPORTATION** SHEET NO. 2 OF 11 SHEETS PLOT DATE = 8/23/2017 CHECKED -CA REVISED

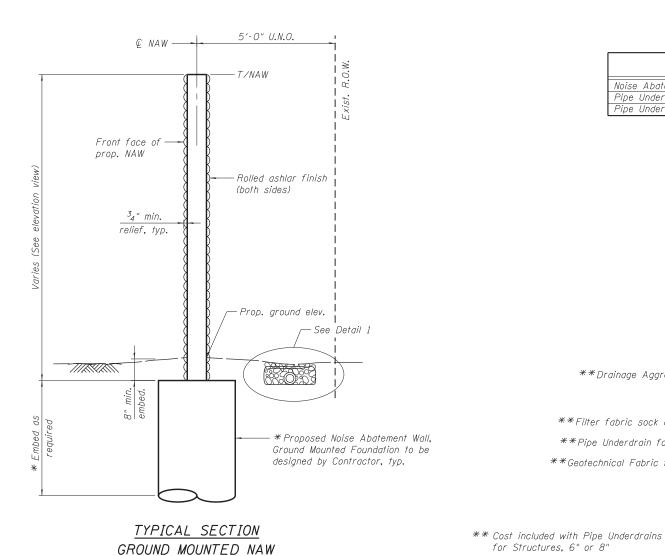


GENERAL NOTES

- 1. Contractor shall follow requirements of Special Provision "Concrete Noise Abatement Walls (Absorptive and Reflective) (Dist. 1)" for material, design, fabrication, construction and erection requirements of the proposed Noise Abatement Wall. In addition, a Geotechnical Report for the Noise Abatement Walls by Wang Engineering, dated March 23, 2015, including recommended design criteria is included in the Special Provisions.
- 2. The Contractor shall review the maintenance of traffic plans. The Construction of the Noise Abatement Walls may need to be sequenced to match the roadway sequence of construction, and the Contractor may not be able to construct the NAW in one continuous operation. Additional mobilization/demobilization required will not be measured for payment, but shall be included in the cost of Noise Abatement Wall, Ground Mounted.
- 3. See Utilities and Drainage sheets for information related to removals of existing and proposed facilities.
- 4. The Contractor shall verify location of all existing utilities and structures and shall take all necessary precautions to perform the work in such a manner as to not damage existing utilities or structures, located near or beneath the noise abatement walls. Any damage to existing utilities or structures shall be repaired at no cost to the Department.
- 5. The proposed Noise Abatement Wall, Ground Mounted foundations are to be determined by the Contractor, and shall be designed to avoid conflicts with the existing facilities.
- 6. It is anticipated that temporary casing is required for each drilled shaft foundation due to soil conditions. The temporary casing will not be measured separately for payment, and shall be included in the cost of Noise Abatement Wall, Ground Mounted.
- 7. Textured finish for the precast panels and staining for the panels and steel posts will not be measured separately for payment, and shall be included in the cost of Noise Abatement Wall, Ground Mounted. The stain color and rolled Ashlar Stone textured finish pattern shall be approved by the Roadside Development Unit prior to ordering materials or beginning fabrication.
- 8. It shall be the Contractor's responsibility to field verify existing ground elevations at the locations of the proposed ground mounted noise abatement walls and compare to that shown on the plans. Adjustments to NAW heights as required to accommodate actual field conditions shall be made by the Contractor at no additional cost. Cost to comply with this requirement is included in the cost of Noise Abatement Wall, Ground Mounted.

INDEX OF SHEETS

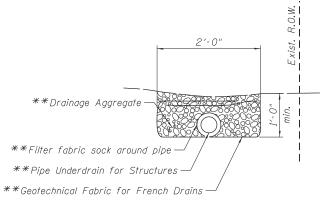
NW - 1	Noise Abatement Wall - Plan & Elevation I
NW-2	Noise Abatement Wall - Plan & Elevation II
NW-3	Noise Abatement Wall - General Notes & Details
NW-4	Noise Abatement Wall – Soil Boring Logs I
NW-5	Noise Abatement Wall – Soil Boring Logs II
NW-6	Noise Abatement Wall – Soil Boring Logs III
NW-7	Noise Abatement Wall – Soil Boring Logs IV
NW-8	Noise Abatement Wall – Soil Boring Logs V
NW-9	Noise Abatement Wall – Soil Boring Logs VI
NW - 10	Noise Abatement Wall – Soil Boring Logs VII
NW - 11	Noise Abatement Wall – Soil Boring Logs VIII



USER NAME = DESIGNED - CA REVISED GENERAL NOTES OWMAN, BARRETT & ASSOCIATES INC. **STATE OF ILLINOIS** CONSULTING ENGINEERS Chicago, Illinois 312.228.0100 www.bbandainc.com CHECKED - DF REVISED NOISE ABATEME PLOT SCALE = N.T.S. DRAWN LAM REVISED **DEPARTMENT OF TRANSPORTATION** SHEET NO. 3 OF PLOT DATE = 8/23/2017 CHECKED REVISED CA

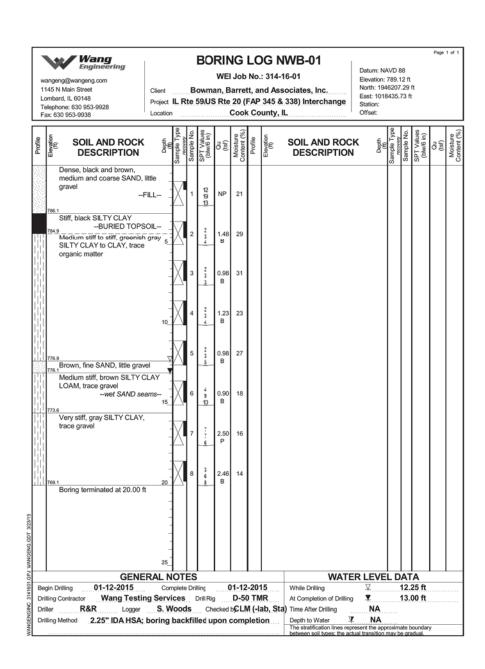
TOTAL BILL OF MATERIAL

ITEM	UNIT	TOTAL	WALL NO. 1	WALL NO, 2
Noise Abatement Wall, Ground Mounted	Sq. Ft.	40,665	34,975	5,690
Pipe Underdrain for Structures, 6"	Foot	1,619	1,236	383
Pipe Underdrain for Structures, 8"	Foot	643	643	0



DETAIL 1

& DETAILS	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
ENT WALL	345	7K-1(12)	СООК	384	291
			CONTRACT	NO. 6	0V57
11 SHEETS		ILLINOIS FED. AI	D PROJECT		



wangeng@wangeng.com 1145 N Main Street Lombard, IL 60148 Telephone: 630 953-9928 Fax: 630 953-9938	Client Project Location		Bowm	WE Ian, B S Rte	l Job arre 20 (No.: 31 tt, and A	sociates, Inc. & 338) Interchange	Datum: N Elevation: North: 194 East: 1013 Station: Offset:	790.1 46166.	5 ft .66 ft		Page 1 of 1	11- Loi Tel	Ingeng@wangeng.com 45 N Main Street mbard, IL 60148 lephone: 630 953-992 ox: 630 953-9938
SOIL AND ROCK	Depth (ft)	Sample Type recovery Sample No	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile Elevation (ft)	SOIL AND ROO DESCRIPTION		Sample Type	Sample No.	(bhw/6 in)	(tsf) Moisture Content (%)	Profile	SOIL A
789.92-inch thick, black SILTY LO, — TOPS(Medium stiff, brown SILTY Ci trace gravel — F	λM / Ξ DIL/ _	1	8 5 3	0.75 P										Stiff, brown C gravel
786.1 Stiff, black and brown SILTY CLAY, trace organic matter BURIED TOPS0	- 5_ DIL	2	2 2 2 2	1.00 P	28									Medium dens and coarse S/ 787.0 Medium dens
783.5 Very soft to stiff, greenish gra CLAY to CLAY SILTY, lamiar	 y ited	3	2 2 4	1.72 B	32								111	LOAM 784.5 Stiff to hard, g
possible saturated sand le	- 10∑ ens	X 4	2 2 2	0.35 B	34									SILTY CLAY
		4	1 2 1	0.66 B	27									
774.6 Medium Stiff, brown and gray	15_	×.	2 4 4	0.16 B	28									
SILTY CLAY LOAM, trace gr	avel _	χ,	3 4 5	0.80 B	15									775.3 Dense, browr
Boring terminated at 20.00 ft	20	8	3 8 7	1.56 B	13								0	772.5 Boring termina
	-												 16.601 3/23/15	
	25_												WMMOR	
GENE	RAL N	OTE	s	·			WAT	ER LEVE					-lo-	
Begin Drilling 01-12-2015 Drilling Contractor Wang Testin Driller R&R Drilling Method 2.25". IDA HSA;	g Servi S. W	oods	Drill Ri	g necked	D-5		While Drilling At Completion of Drillin ta) Time After Drilling Depth to Water	⊽ g ¥ NA Z NA	1	10.00 DR			Drill	in Drilling 0' ling Contractor ler K&K ling Method 2.2

BOWMAN, BARRETT & ASSOCIATES INC.	USER NAME =	DESIGNED	REVISED		SOIL BORING LO
CONSULTING ENGINEERS		CHECKED	REVISED	STATE OF ILLINOIS	
312.228.0100	PLOT SCALE = N.T.S.	DRAWN - LAM	REVISED	DEPARTMENT OF TRANSPORTATION	NOISE ABATEMENT
www.bbandainc.com	PLOT DATE = 8/23/2017	CHECKED - CA	REVISED		SHEET NO. 4 OF 11 SH

ng neering .com 9928	Client Project IL I Location	в	owm	WE an, B S Rte	Job arre 20 (No. tt, a FAP	: 314-1 nd Ass	ociates, Inc 338) Interch		Datum: N Elevation North: 19 East: 101 Station: Offset:	: 792. 4612	54 ft 4.08	ft	Page	1 of 1
AND ROCK	Depth (ft) Sample Type	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL ANI DESCRI			Sample Type	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
CLAY LOAM, tra	Dry	1	3 3 5	1.00 P	14										
nse, brown, medi SAND, trace gra M		2	3 3 8	NP	12										
ise, brown SILTY M	oist	3	6 7 7	NP	23										
gray SITLY CLA Y LOAM, trace gr	Ty to ravel	4	4 5 5	1.64 B	17										
	X	5	5 7 9	1.72 B	14										
	15	6	6 8 10	4.18 B	13										
n SANDY GRA	VEL T	7	5 6 25	1.23 B	20										
inated at 20.00 ft	20	8	22 40 18	NP	3										
	-														
	25_														
	RAL NOT								WATE	RLEVE	EL C				
	g Services A. Happ	s Del	Drill Rig	ecked	ÞÇLI	ra 0 1-) N	r∨ ab, Sta	While Drilling At Completion Time After Dri	lling	NA			RY RY		
.25" IDA HSA;	boring bac	kfil	led u	pon	com	oleti	on	Depth to Wate The stratification between soil to	n lines repr	NA resent the ap	proxin	nate b	oundar	у	
								between soil ty	bes: the act	ual transition	n may	oe gra	idual.		

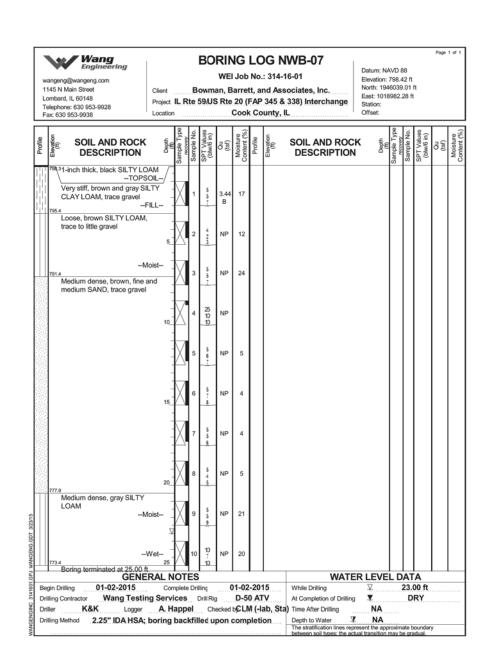
LOGS I	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
NT WALL	345	7K-1(12)	СООК	384	292
			CONTRACT	NO. 6	0v57
1 SHEETS		ILLINOIS FED. A	ID PROJECT		

1' Lo T(Pageng@wangeng.com 145 N Main Street ombard, IL 60148 elephone: 630 953-9928 ac: 630 953-9928	Client Project Location		в	owm	WE an, B S Rte	Job arre 20 (No tt, a FAP	: 314 nd As	NWB-04 -16-01 ssociates, Inc. & 338) Interchange	Datum: N Elevation: North: 194 East: 1018 Station: Offset:	794.3 6081	31 ft .59		Page	1 of 1
	_		, Type	Ň	ines in							rype	No.	in)		re (%)
Profile	SOIL AND ROCK	Depth (ff)	Sample	Sample No	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%	Profile	Elevation (ft)	SOIL AND ROO DESCRIPTION		Sample -	Sample No	SPT Values (blw/6 in)	QU (Isf)	Moisture Content (%)
	7%(21-inch thick, black CLAY LOA TOPSC Medium stiff to stiff, brown CL LOAM, little gravel Mc	AY	X	1	3 3 3	0.90 B	12									
	Mc		Х	2	4 5 6	1.80 в	9									
10000	767.8 Medium dense to very dense, brown and gray SANDY GRAVEL	-	X	3	26 29 25	NP	5									
0.0000	Mc		X	4	18 15 15	NP	6									
00000)ry	X	5	10 15 18	NP	4									
0.00	[Dry 15	X	6	12 10 13	NP	4									
. 0 . 0		Dry	X	7	15 19 42	NP	5									
00°	Mo 774.3 Boring terminated at 20.00 ft	oist 20		°	55/2	- NP	,									
3141601.GPJ WANGENG.GDT 3/23/15		-														
WANGEN		25														
	GENEF gin Drilling 01-05-2015 illing Contractor Wang Testing iller K&K Logger	Con g Servi A. H	nplete ices app	Dril	lling Drill Rig Ch	ecked		0 A1 1 (-1	⊺V ab, St	While Drilling At Completion of Drillin ta) Time After Drilling	NA	LD	D	A RY RY		
Indending	illing Method 2.25" IDA HSA; I	ooring	bac	kfil	led u	pon	com	oleti	on	Depth to Water The stratification lines re between soil types: the a	Present the app trual transition	roxim may b	ate t	oundar, idual.	Ý	

791.7 Medium dense to dense, bro GRAVELLY SAND	DAM SOIL	1	α α τ Values (blw/6 in)	nO 2.50 P	° °	Profile	SOIL AND RO		(II) Iple Type Icovery	Values Values	W/6 in) Qu	Moisture Content (%)	. 5	SOIL
TOPS Stiff to very stiff, brown CLA' LOAM, trace gravel N N N N N N N 	SOIL/ Y Moist Dwn 5	1	12 8 8						Sample	Sample 1 SPT Valt	(bhw/6 in Qu	Moi	Profile Elevation	DES
Medium dense to dense, bro GRAVELLY SAND	5	7		1	9									52-inch thick Stiff to hard to SILTY Cl gravel
0.9 M		2	7 11 29	NP	7									
о 0' 0N	Noist	3	14 16 17	NP	5								 1 788.0	3 Medium de
- - -	-Dry	4	16 16 14	NP	5								0 ° ° ° ° ° ° ° ° ° ° ° ° ° ° ° ° ° ° °	GRAVELL
0° 0° 0°	Noist	5	13 12 15	NP	4								0 0 0 0 0 0 0 0 0 0	
о 0°М 0°	Noist	6	22 23 16	NP	3								0 0 0 0 0 0 0 0 0	
о 0- 0- 0- 0-	Noist	7	30 33 24	NP	4								0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	
0 0 775.7 Boring terminated at 20.00 ft	Noist	8	18 11 16	NP	5								• 0° • 0° • 0°	Boring term
	-												373/15	
	25_												WANGENG.GDT 3/2/15	
GENE	RAL NO	TES	;				WA	TER LEVE	EL D				GPJ	
Begin Drilling 01-05-2015 Drilling Contractor Wang Testin Driller K&K Logger Drilling Method 2.25" IDA HSA;	A. Hap	s pel	Drill Rig	g iecked	D-50 bjclin		While Drilling At Completion of Dril Sta) Time After Drilling Depth to Water	⊽ Ing ▼ NA ▼ NA		DR DR			Driller	Drilling Contractor K&

BOWMAN, BARRETT & ASSOCIATES INC.	USER NAME =	DESIGNED	REVISED		SOIL BORING LOGS II	F.A.P. RTF.	SECTION	COUNTY TOTAL SHEET
CONSULTING ENGINEERS Chicago, Illinois		CHECKED	REVISED	STATE OF ILLINOIS	NOISE ABATEMENT WALL	345	7K-1(12)	СООК 384 293
312.228.0100 Www.bbandainc.com	PLOT SCALE = N.T.S.	DRAWN - LAM	REVISED	DEPARTMENT OF TRANSPORTATION				CONTRACT NO. 60V57
	PLOT DATE = 8/23/2017	CHECKED - CA	REVISED		SHEET NO. 5 OF 11 SHEETS		ILLINOIS FED. A	ID PROJECT

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								: 314-1		Datum: N/ Elevation:					
n	Client		в	owm					ociates, Inc.	North: 194	6022	.66			
28		IL R							338) Interchange	East: 1018 Station:	897.	65 ft			
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		8	ó	8 _		. (9					8	ö	8 ~		
ND ROCK	Depth	Ve Ty	ple N	PT Values (blw/6 in)	(tsf)	Moisture Content (%	Profile	Elevation (ft)	SOIL AND ROC		de Ty	Sample No	Value v/6 in	(Ist)	isture ent (%
RIPTION	0	Sample	Sample	SPT (blw		Cont	ď	ŝ	DESCRIPTION		Sample Type recovery	Sam	SPT Values (blw/6 in)		Moisture Content (%)
ack SILTY LC		-	\square												
TOPS		M		6											
LOAM, trace		M	1	4 4	1.23 B	23									
%)=29, P _L (%)	=16	F		_											
-%Gravel= -%Sand=	=2.8	M	2	5	4.51	10									
%Silt=	61.1- 5_		Ľ	5 5	4.51 B	13									
A-6		-													
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05-2015		mplete				1-05			While Drilling	¥			RY		
Vang Testir						D-5			At Completion of Drilling Time After Drilling	NA		D	RY		
" IDA HSA;									Depth to Water 3	NA NA					
									The stratification lines rep between soil types: the ac	tual transition	roxim may b	ate b e gra	oundar idual.	У	



Wangeng@wangeng.com 1145 N Main Street Lombard, IL 60148 Telephone: 630 953-9928 Fax: 630 953-9938 Borning Loo No.:: 314-7 Client Bowman, Barrett, and Ass Project IL Rte 59/US Rte 20 (FAP 345 & Location Cook County, I						16-01 Datum: NAVD 88 Elevation: 796.95 ft Sociates, Inc. .338) Interchange East: 1019070.21 ft Station: Offset:						I of 1	wangeng@wangen.co 1145 N Main Street Lombard, IL 60148 Telephone: 630 953-99 Fax: 630 953-9938							
Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type	Sample No.	(blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROC DESCRIPTION		(ft)	recovery	SPT Values	(bhw/6 in)	(tsf)	Moisture Content (%)		Profile	BOIL A Elevation DESC
) Me	inch thick, black SILTY LO/ TOPS edium stiff to stiff, black and own CALY to SILTY CLAY)IL/ _	X	1	4 5 4	0.82 B	20						_							SILTY CLAY
791.4		5_	X	2	4 4 5	1.89 В	24													790.1
Ve	ery stiff to hard, brown and s LTY CLAY, trace gravel	gray _ - -	X	3	4 5 8	2.87 B	26													Medium stiff t gray CLAY to
786.4		10	X	4	5 6 8	4.51 B	17													Trace roots
Lo	ose, brown SILTY LOAM, avel Mo	ittle _ oist	X	5	5 5 4	NP	22													
	ery stiff, brown SILTY CLAY DAM, trace gravel	15_	X	6	4 7 9	3.20 B	23													780.1
 778.9		-	X	7	6 5 5	NA	18													Very stiff to h CLAY, trace
	ery loose, brown, fine and edium SAND, little gravel Mo	- 	X	8	2 1 1	NP	18													775.6 Boring termin
	edium dense to dense, bro RAVELLY SAND	vn _	X	9	8 12 10	NP	12												GDT 3/23/15	
771.9 Bo	pring terminated at 25.00 ft	25	X		10 19 15	NP	8												J WANGENG.GC	
	GENE						4 00	004	-		R LE	/EL					_		01.6P	
Begin Drilli Drilling Cor Driller Drilling Met	ntractor Wang Testin K&K Logger	g Servi A. H	appe	Dr	ill Rig Che	cked		0 AT // (-la	V ıb, Sta	While Drilling At Completion of Drilling Time After Drilling Depth to Water	NA V NA	A		5.00 DR	Y				Ind at	gin Drilling 0 Iling Contractor Iler K&K Iling Method 2,

BOWMAN, BARRETT & ASSOCIATES INC.	USER NAME =	DESIGNED	REVISED		SOIL BORING LOG
CONSULTING ENGINEERS		CHECKED	REVISED	STATE OF ILLINOIS	
Chicago, Illinois 312.228.0100	PLOT SCALE = N.T.S.	DRAWN - LAM	REVISED	DEPARTMENT OF TRANSPORTATION	NOISE ABATEMENT
www.bbandainc.com	PLOT DATE = 8/23/2017	CHECKED - CA	REVISED		SHEET NO. 6 OF 11 SH

ng neering com 9928		IL R	в	owma	WEI an, B 6 Rte	Job arrei 20 (I	No. tt, a FAP	: 314-1 nd Ass	ociates, Ir 338) Inter	IC.	Datun Eleva North East: Statio Offse	tion: : 194 1019 n:	795.9 6147	55 ft 7.33 f		Page	1 of 1
AND ROCK CRIPTION	Depth	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AN DESCI	ND ROC RIPTION		Depth (ff)	Sample Type	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
black SILTY LC TOPS stiff, brown and g Y LOAM, trace g	olL/	X	1	6 5 4	3.50 P	20							05				
	5	X	2	4 4 4	1.48 P	21											
to stiff, brown a o SILTY CLAY	nd _ - -	X	3	50/3"	1.50 P	25											
5	10	X	4	4 3 3	0.90 B	28											
	-	X	5	3 5 7	2.79 B	25											
N	loist15	X	6	5 4 6	1.80 B	25											
hard, brown SIL gravel	TY _	X	7	5 7 12	6.07 B	17											
inated at 20.00 f	20 t	X	8	8 19 22	2.62 B	18											
	-																
	25	от	ES							WATE	ER LE	VE		AT	A		
01-02-2015 Wang Testir Logger	ng Serv	app	el C	Drill Rig	ecked	¢L I	ra 0 1-) N	r∨ ab, Sta	While Drillin At Completi Time After I Depth to Wa The stratifica between soil	on of Drilling Drilling ater 2	N Z N	A	roxim nay b	D	RY RY	y	

	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
NT WALL	345	7K-1(12)	СООК	384	294
			CONTRACT	NO. 6	0v57
1 SHEETS		ILLINOIS FED. A	ID PROJECT		

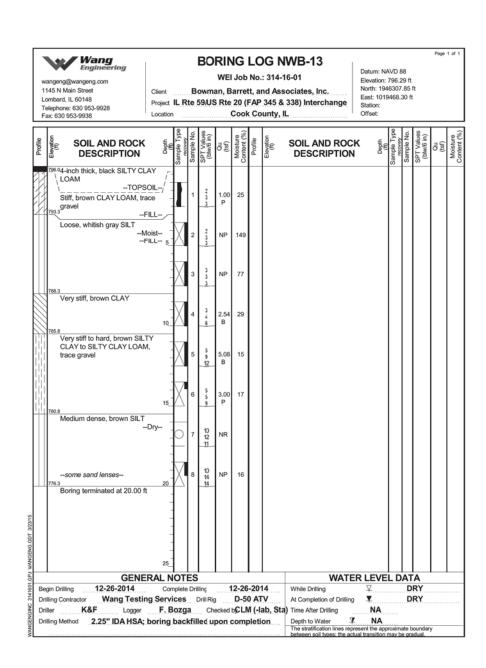
wangeng@wangeng.com 1145 N Main Street Lombard, IL 60148 Telephone: 630 953-9928 Fax: 630 953-9938	Client Project Location		Вс	owma	WE an, E & Rte	l Job arre	No tt, a FAP	NWB-10 -16-01 sociates, Inc. & 338) Interchange IL	Datum: N Elevation: North: 19 East: 101 Station: Offset:	794.1 46213	96 ft 3.91	ft	Page	1 of	
SOIL AND ROCK	Depth (ff)	Sample Type	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROO DESCRIPTION		Sample Type	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture
Pate 2-inch thick, black SILTY LO -TOPS Hard, brown and gray CLAY LOAM, trace gravel, bricks -FR		X	1	5 6 50′5″	4.00 P	14									
Loose to medium dense, bro and gray GRAVELLY SAND LOAM to LOAM			2	2 3 4	NR	12									
M	oist	X	3	3 4 7	NP	12									
Medium stiff, gray SILTY CL LOAM, trace to little gravel	Vet	X	4	3 3 3	0.75 P	22									
782.0	oist	X	5	5 3 2	0.50 P	13									
Soft, black and gray CLAY, to organic matter	ace _ 	X	6	0 0 2	0.49 B	41									
Stiff to very stiff, brown and g SILTY CLAY, trace gravel	ray _ 	X	7	7 9 14	1.89 B	18									
Boring terminated at 20.00 ft	20	X	8	7 10 15	3.44 B	14									
	-														
	25_														
GENE	RAL N	оті	ES						WAT	ER LEVE	L D	AT	A		-
Begin Drilling 01-02-2015		plete		ing	(01-02	2-20	15	While Drilling	¥)0 ft		
Drilling Contractor Wang Testin	-					D-5			At Completion of Drillin			D	RY		
Driller K&K Logger Drilling Method 2.25" IDA HSA;									ta) Time After Drilling Depth to Water	NA Z NA					

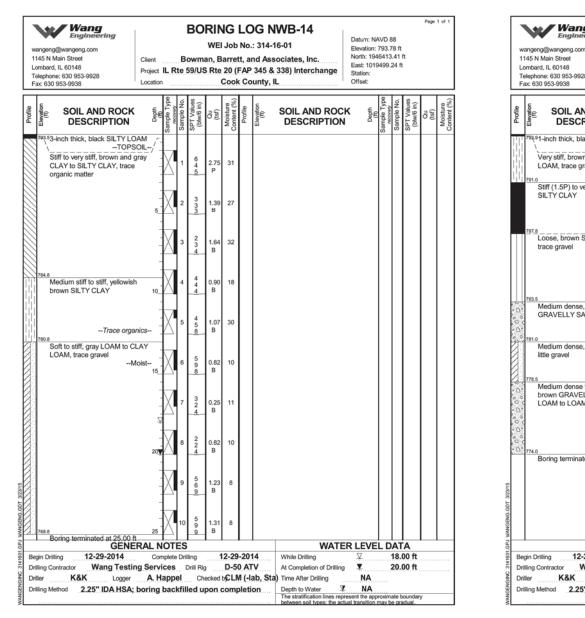
1145 N Lombar Telepho	Wang engineering Main Street rd, IL 60148 nore: 630 953-9928 0 953-9938	Client Project Locatio		в	owm	WE an, B S Rte	Job arre 20 (No tt, a FAP	.: 314- nd Ass	sociates, In 338) Intere	c	Datum: N Elevation: North: 194 East: 1019 Station: Offset:	794. 46250	77 ft).72 f			1 of 1		11 Lo Te	engine angeng@wangeng.com 45 N Main Street mbard, IL 60148 kephone: 630 953-992 pc 630 953-9938
Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth	Sample Type	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AN DESCR	ID ROCI	Cepth S	Sample Type	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)		Profile	SOIL A (iii) DESC
Į Ì,	2-inch thick, black SILTY LO TOPS Very stiff, brown and gray CL LOAM, trace gravel F	OIL/	X	1	5 6 8	3.50 P														Very stiff, brow CLAY LOAM,
789.3		5_	X	2	4 5 3	2.50 P	11													787.7
	Medium stiff to stiff, gray CL/ LOAM to SILTY CLAY trace orgai L _L (%)=41, P _L (%): %Gravel=	nics =20 1.1	X	3	5 2 1	0.75 P	37													Medium stiff t and gray CLA
	%Sand=2 %Silt=4 %Clay A-7-6 (6.4 =26	X	4	333	1.07 B	22													trace organi
781.8		-	X	5	3 4 4	1.31 B	20													
	Stiff to very stiff, brown and g SILTY CLAY LOAM, trace g	ray avel 15_	X	6	5 7 8	3.44 В	17													777.7possible :
			X	7	8 10 12	3.03 B	14													Stiff, gray SIL gravel –L
774.8	Boring terminated at 20.00 ft	20		8	5 7 11	1.39 B	11													773.2 Boring termin
		-	-															DT 3/23/15		
		25_																U WANGENG.G		
Begin Dr	GENE filling 01-02-2015		NOT mplete		ling)1-02	-20	15	While Drillin		R LEVE	:L 0		A RY			01.GP	Per	ain Drilling 1:
-	Contractor Wang Testin K&K Logger	g Serv A. H	ices Iapp	el	Drill Rig) ecked	D-5 bCLI	0 A1 VI (-I	TV ab, Sta		on of Drilling Drilling	NA NA			RY			ENGINC 31416	Dril Dril	ling Contractor

- H		1				
	BOWMAN, BARRETT & ASSOCIATES INC.	USER NAME =	DESIGNED	REVISED		SOIL BORING LOG
	CONSULTING ENGINEERS		CHECKED	REVISED	STATE OF ILLINOIS	
	312.228.0100	PLOT SCALE = N.T.S.	DRAWN - LAM	REVISED	DEPARTMENT OF TRANSPORTATION	NOISE ABATEMENT
	Gineago, Initiois Th	PLOT DATE = 8/23/2017	CHECKED - CA	REVISED		SHEET NO. 7 OF 11 SH

g n	Client Project Location		в	owm	WEI an, B 6 Rte	Job arrei 20 (I	No. It, a FAP	OG N : 314-1 nd Ass 345 & unty, II	6-01 ociate 338) Ir	s, Inc.		E N E	Datum: N Elevation: North: 19 East: 101 Station: Offset:	793. 46264	21 ft 1.88		Page	1 of 1
ND ROCK RIPTION	Depth	, ype	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL	. ANE		ск	Depth	Sample Type	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	oil/		1	4 4 4	3.00 P	16								05				
	5_	X	2	3 3 7	3.50 P	19												
very stiff, blac ' to SILTY CL		X	3	2 2 4	0.82 B	27												
matter	10_	X	4	3 3 4	1.64 B	31												
	-	X	5	3 4 5	1.64 B	26												
turated sand l		X	6	3 4 6	2.05 B	22												
Y CLAY, trace %)=34, P _L (%): %Gravel= %Sand=1	=17	X	7	6 17 13	1.97 B	11												
%Silt=5 %Clav=2	1.8 8.9 12) ₂₀	X	8	5 7 9	1.89 S	11												
	-																	
	25																	
GENE	RALN	ют	ES				_				WAT	ER	LEVE	L D	AT	A		-
29-2014	Cor	nplete	Dril	ling		2-29			While	Drilling			₽			50 ft		
Logger IDA HSA;	A. H	lapp	el	Ch	ecked		A (-I	ab, Sta	Time A	npletion Ifter Dril to Wate	ling	ng T	NA NA		18.	00 ft		
inger Hore;	soring	Jac	autt	au u		wint	are ti	vii					ent the app transition	proxim	ate t	oundar	у	
									200000	<u></u>	wa. u iti i	astudi	<u>u ansiu0h</u>	nay c	a gh	rutidi.		

LOGS IV	F.A.P. RTE.	SECTION		COUNTY	TOTAL SHEETS	SHEET NO.
NT WALL	345	7K-1(12)		СООК	384	295
				CONTRACT	NO. 6	0v57
1 SHEETS		ILLINOIS	FED. AI	D PROJECT		

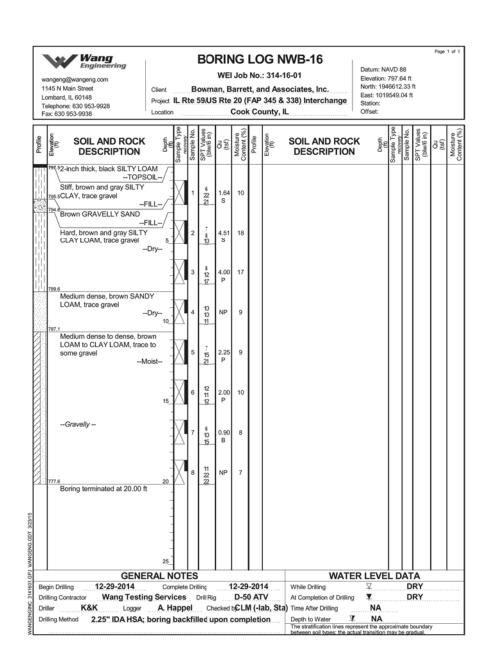




		USER NAME =	DESIGNED	REVISED		SOIL BORING LOG
			CHECKED	REVISED	STATE OF ILLINOIS	
	312.228.0100	PLOT SCALE = N.T.S.	DRAWN - LAM	REVISED	DEPARTMENT OF TRANSPORTATION	NOISE ABATEMENT
	www.bbandainc.com	PLOT DATE = 8/23/2017	CHECKED - CA	REVISED		SHEET NO. 8 OF 11 SH
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g ering				во	RIN	IG	LC	G N	WB-1	5		otum: bl/		18		Page	1 of 1
1					WE	Job	No.	: 314-1	6-01		E	atum: N/ levation:	794.0	04 ft			
	Client								ociates,			orth: 194 ast: 1019					
8	Project Location		te :	59/US				345 & 3 unty, IL		rchange	S	tation: ffset:		00 11			
		Ø		10									Ø		10		-
ND ROCK RIPTION	Depth	Sample Typ recovery	Sample No	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)		ND RO RIPTIO		(ft) (ft)	Sample Typ	Sample No	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
ack SILTY LO TOPS IN SILTY CLA avel	OIL-1/ -	Х	1	7 6 7	3.03 B	14											
r ery stiff, black	- - -			3													
-	Dry 5	Å	2	4 5	2.25 P	27											
SILTY LOAM, \	⊽ 	X	3	3 4 5	NP	18											
	- - 10	X	4	2 2 2	NP	14											
, brown ND	-	X	5	15 15 14	NP	11											
, brown LOAN M	1, oist 15	X	6	7 15 12	2.00 P	11											
to very dense LLY SANDY /I \	, ⊻ 	Х	7	24 37 29	NP	9											
	20	Х	8	12 13 13	NP	13											
ed at 20.00 ft	-																
CENE	25_									14/47	ED						
GENE 29-2014		nplete			1	2-29	-201	14	While Dril		ER	LEVE			A 0 ft		
Vang Testin						D-5				tion of Drilli	ng	Y			00 ft		
									Time Afte			NA					
" IDA HSA;	boring	bac	kfill	led u	pon	comp	oleti	on	Depth to V	Vater	¥	NA	mair	ato -	oundor		
									i ne stratifi	cation lines n al types: the a	epreser	nt the app	roxam	ate b	oundar	У	

LOGS V	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
NT WALL	345	7K-1(12)	СООК	384	296
			CONTRACT	NO. 6	0V57
1 SHEETS		ILLINOIS FED.	AID PROJECT		



1145 N M Lombard,	e: 630 953-9928	Client Project IL Location	в	owm	WE an, B S Rte	Job arre 20 (No.: tt, an FAP :	314-1 d Ass	ociates, Inc. 338) Interchange	Elevat North:		.12 fi 2.27	ft	Page	1 of 1		11 Lo Te	Langeng@wangeng.com I45 N Main Street ombard, IL 60148 slephone: 630 953-992 ax: 630 953-9938
Profile Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft) Sample Type	sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROC DESCRIPTION		Depth (ft) Sample Type	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)		Profile	SOIL AN DESCR
i St	inch thick, black SILTY LO -TOPS iff to very stiff, brown CLAY LTY CLAY	AM	1	4 4 3	2.00 P	20												²⁹⁹⁻⁵⁴ -inch thick, bla LOAM LOAM Medium stiff to and gray CLAY
		5	3	4 4 4	1.15 B 1.64 S	31 27												
788.6 Me	edium dense to dense, bro	10_1	4	6 4 5	1.50 P	28												
LC	DAM, little gravelM	oist	5	10 11 11	2.00 P	12												trace organic
		15	6	13 17 15	NP	8												trace organic
) 7	6 8 11	NR													
Bc	bring terminated at 20.00 ft	20	8	18 18 18	2.00 P	11										ADMIN TO	01070	779.8 Boring termina
	GENE	25	TES	 					WATE	RLE			A			CP1 WANGENG CTT		
Begin Drilli Drilling Co Driller Drilling Me	ntractor Wang Testin K&K Logger	A. Hap	s pel	Drill Rig	ecked	D-5 bCLI		V b, Sta	While Drilling At Completion of Drilling) Time After Drilling Depth to Water The stratification lines rep between soil types: the ac	N. K N	A	C	RY	У		AMAZEMAZIAN	Dri	gin Drilling 12 Iling Contractor 1 Iler K&F Iling Method 2.2

BOWMAN, BARRETT & ASSOCIATES INC.	USER NAME =	DESIGNED	REVISED		SOIL BORING LOGS VI	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEET
		CHECKED	REVISED	STATE OF ILLINOIS	NOICE ADATEMENT WALL	345	7K-1(12)	СООК	384 297
312.228.0100	PLOT SCALE = N.T.S.	DRAWN - LAM	REVISED	DEPARTMENT OF TRANSPORTATION		_		CONTRACT	T NO. 60V57
	PLOT DATE = 8/23/2017	CHECKED - CA	REVISED		SHEET NO. 9 OF 11 SHEETS		ILLINOIS FED. AI	D PROJECT	

g n 8	Client Project Location		в	owm	WEI an, B & Rte	Job arre 20 (No tt, a FAP	.: 314- nd As	sociates, Inc. & 338) Interchange	6-01 Datum: NAVD 88 Elevation: 799.80 ft Description ociates, Inc. East: 1019551.08 ft 338) Interchange Station:					Page	1 of 1
ND ROCK RIPTION	Depth	Sample Type	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROO DESCRIPTION	CK N	Depth (ft) Samula Turo	recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
TOPS very stiff, brow to SILTY CL	0IL/	X	1	4 4 6	2.21 B	27										
	5	И	2	2 2 4	1.15 В	24										
	-	X	3	2 3 4	1.31 B	27										
	10_	И	4	2 3 4	0.98 B	28										
;	-	X	5	3 3 4	0.57 B	27										
;	15_	X	6	2 3 4	0.90 B	26										
	-	X	7	2 3 5	1.15 B	25										
ed at 20.00 ft	20	X	8	3 4 5	1.15 B	26										
	-															
	25															
GENE										ER LE	/EĹ	D				
26-2014 Vang Testin Logger " IDA HSA;	ig Serv F. E	Bozg	a	Drill Riq	ecked	D-5 bCLI	0 A1 1 (-1	rV ab, St	While Drilling At Completion of Drillin a) Time After Drilling Depth to Water The stratification lines rej between soil types: the ar	NA Z N	A	xima	D	RY RY oundar	y	
" IDA HSA;	boring	bac	kfil	led u	pon (com	oleti	on	Depth to Water 3 The stratification lines re- between soil types: the ar	¥ N. present the ctual transit	A appro ion ma	xima ay be	te b	oundar dual	4	

wangeng@wangeng.com 1145 N Main Street Lombard, IL 60148 Telephone: 630 953-9928 Fax: 630 953-9938	Client Project Location		Вс	wma	WE an, B & Rte	Job arre 20 (No. It, a FAP	: 314- nd As:	sociates, Inc. 338) Interchange	Datum: Elevation North: 1 East: 10 Station: Offset:	n: 798 94711	.45 ft 3.95	ft	Page	1 of 1
BUD SOIL AND ROCK DESCRIPTION	Depth (ff)	Sample Type	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROO DESCRIPTIO		(ft) Sample Type	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture
288-14-inch thick, black SILTY CL CARTING CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONTRO	/]		1	13 11 7	NP	11									
Medium stiff to very stiff, brow and gray SILTY CLAY	/n	X	2	2 3 5	1.64 В	26									
		X	3	2 3 5	1.80 B	27									
trace plant material	10_	X	4	3 4 6	2.46 B	26									
		X	5	3 3 4	1.15 B	26									
763.0	15_	X	6	2 3 3	0.74 B	25									
Medium dense, gray SANDY LOAMM		X	7	3 5 7	NP	17									
778.5 Boring terminated at 20.00 ft	20	X	8	4 5 8	NP	18									
GENE	25_								WAT	ER LEV					
Begin Drilling 12-26-2014 Drilling Contractor Wang Testin Driller K&F Logger Drilling Method 2.25" IDA HSA;	Com g Servi F. B	nplete ces ozga	Drill D	rill Rig	ecked		ra 0 // (-	V ab, St	While Drilling At Completion of Drillin a) Time After Drilling	₽		D	RY		

wangeng@wangeng.com 1145 N Main Street Lombard, IL 60148 Telephone: 630 953-9928 Fax: 630 953-9938	BORING LOG NWB-20 WEI Job No.: 314-16-01 Ciient Bowman, Barrett, and Associates, Inc. Project IL Rte 59/US Rte 20 (FAP 345 & 338) Intercha Location Cook County, IL	Page 1 of 1 Datum: NAVD 88 Elevation: 799.43 ft North: 1947217.25 ft East: 1019551.02 ft Station: Offset:	Wangeng@wangeng.com BORING LOG I 1145 N Main Street WEI Job No.: 314 Lombard, IL 60148 Client Bowman, Barrett, and As Project IL Ret 59/US Rte 20 (FAP 345 0) Fax: 630 953-9938 Location Cook County,	-16-01 Datum: NAVD 88 Elevation: 800.25 ft North: 1947316.71 ft East: 101952.81 ft Station:
BUIL AND ROCK DESCRIPTION			Profile Eleveration (1) Profile Profile Profile Profile Profile Profile Profile Profile Profile Profile Profile Profile Profile Profile Profile Profile Profile Profile Profile Profile Profile Profile Profile Profile Profile Profile Profile Profile Profile Profile Profile Profile Profile Profile Profile Profile Profile Profile Profile Profile Profile Profile Profile Profile Profile Profile Profile Profile Profile Profile Profile Profile Profile Profile Profile Profile Profile Profile Profile Profile Profile Profile Profile Profile Profile Profile Profile Profile Profile Profile Profile Profile Profile Profile Profile Profile Profile Profile Profile Profile Profile Profile Profile Profile Profile Profile Profile Profile Profile Profile Profile Profile Profile Profile Profile Profile Profile Profile Profile Profile Profile Profile Profile Profile Profile Profile Profile Profile Profile Profile Profile Profile Profile Profile Profile Profile Profile Profile Profile Profile Profile Profile Profile Profile Profile Profile Profile Profile Profile Profile Profile Profile Profile Profile Profile Profile Profile Profile Profile Profile Profile Profile Profile Profile Profile Profile Profile Profile Profile Profile Profile Profile Profile Profile Profile Profile Profile Profile Profile Profile Profile Profile Profile Profile Profile Profile Profile Profile Profile Profile Profile Profile Profile Profile Profile Profile Profile Profile Profile Profile Profile Profile Profile Profile Profile Profile Profile Profile Profile Profile Profile Profile Profile Profile Profile Profile Profile Profile Profile Profile Profile Profile Profile Profile Profile Profile Profile Profile Profile Profile Profile Profile Profile Profile Profile Profile Profile Profile Profile Profile Profile Profile Profile Profile Pro	SOIL AND ROCK DESCRIPTION
1 289-14-inch thick, black SILTY C 1 LOAM			stiff, gray and brown SILTY 1 10 1.31 13 Pre-2CLAY LOAM, trace gravel -TOPSOIL-/ 1 1 13 13 Brown GRAVELLY SAND -Dry- - - - -	
	5 2 3 2.13 24 5 B B		Medium dense, brown SANDY 2 8 NP 15 LOAM -Dry5 -Dry5 <td></td>	
	3 3 1.56 26		Medium dense, brown SILTY LOAM Moist -	
trace plant material	10 4 2 1.23 31 10 4 B		Very stiff to hard, brown and gray SiLTY CLAY, trace gravel 10 Very stiff to hard, brown and gray Very stiff to hard, brown and gray P P P	
coarse SAND to SANDY L trace gravel			5 7 10 13 14	
	6 6 13 NP 7		Brown SANDY LOAM, trace 15 754,7 gravel	
782.3 Medium dense, gray SILTY LOAM			Very stiff, gray SILTY LOAM to SILTY CLAY LOAM 7 7 7 10 2.46 11 8 11 8 11 8 11	
sand lenses 779.4 Boring terminated at 20.00	-Moist- 200 ft - -		Boring terminated at 20.00 ft	
	25			
GENI				WATER LEVEL DATA
Begin Drilling 12-26-2014 Drilling Contractor Wang Testi Driller K&F Logger	Complete Drilling 12-26-2014 While Drilling ting Services Drill Rig D-50 ATV At Completion of r F. Bozga Checked bCLM (-lab, Sta) Time After Drillir A; boring backfilled upon completion Depth to Water The statification	✓ DRY f Drilling ✓	Begin Drilling 12-23-2014 Complete Drilling 12-23-2014 Drilling Contractor Wang Testing Services Drill Rig D-50 ATV. Drilling Method 2.25" IDA HSA; boring backfilled upon completion Complete Drilling	While Drilling V DRY At Completion of Drilling DRY

BOWMAN, BARRETT & ASSOCIATES INC. CONSULTING ENGINEERS Chicago. Illinois 312.228.0100 www.bbandainc.com	USER NAME = PLOT SCALE = N.T.S.	DESIGNED CHECKED DRAWN - LAM	REVISED REVISED REVISED	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SOIL BORING LOG Noise Abatement
www.bbandainc.com	PLOT DATE = 8/23/2017	CHECKED - CA	REVISED		SHEET NO. 10 OF 11 SH

LOGS VII	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
INT WALL	345	7K-1(12)		СООК	384	298
				CONTRACT	NO. 6	0v57
1 SHEETS		ILLINOIS	FED. AI	D PROJECT		

wangeng@wangeng.com 1145 N Main Street Lombard, IL 60148 Telephone: 630 953-9928 Fax: 630 953-9938	BORING LOG NWB-22 WEI Job No.: 314-16-01 Client Bowman, Barrett, and Associates, Inc. Project IL Rte 59/US Rte 20 (FAP 345 & 338) Interchange Location Cook County, IL								Page 1 of Datum: NAVD 88 Elevation: 797.74 ft North: 1947422.10 ft East: 1019574.27 ft Station: Offset:					1 of 1
BILD SOIL AND ROCK DESCRIPTION	Depth (ft) Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROC DESCRIPTION		Sample Type	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
287-44-inch thick, black SILTY LC —TOPS Stiff to very stiff, brown CLAY LOAM, little gravel	OIL-/	1	7-54	2.50 P	9									
792.2	5	2	2 32	1.50 P	15									
789.7	Dry	3	4 3 8	NP	8									
	Wet	4	11 6 10	NP	17									
LOAM, trace gravel 785.5 786.7 Gray, fine SAND, trace grave	al •Dry	5	4 8 14	2.21 B	12									
Medium dense, gray SILTY LOAM, trace gravel N	loist15	6	10 8 12	NP	16									
T781.5 Stiff, gray SILTY CLAY, trace gravel 779.7 Very dense, brown SANDY		7	8 7 10	1.23 B	21									
GRÁVEL	20	8	20 40 40'3"	NP	7									
GDT 32215	-													
Gene Begin Drilling 12-23-2014 Drilling Contractor Wang Testin	25_ RAL NOT	ES						WATE	RLEVE			A		
Begin Drilling 12-23-2014 Drilling Contractor Wang Testin Driller K&K Logger Drilling Method 2.25" IDA HSA;	A. Happ	el (Drill Rig	ecked		ra 0 1-) N	'V ab, Sta	While Drilling At Completion of Drilling a) Time After Drilling Depth to Water The stratification lines rep between soil types: the act	NA NA resent the app	roxima may be		RY	,	

BOWMAN BARRETT & ASSOCIATES INC	USER NAME =	DESIGNED	REVISED		SOIL BORING LOGS VIII	F.A.P.	SECTION	COUNTY	TOTAL SHEET
CONSULTING ENGINEERS		CHECKED	REVISED	STATE OF ILLINOIS	NOISE ABATEMENT WALL	345	7K-1(12)	СООК	384 299
312.228.0100 www.bbandainc.com	PLOT SCALE = N.T.S.	DRAWN - LAM REVISED		DEPARTMENT OF TRANSPORTATION				CONTRAC	T NO. 60V57
	PLOT DATE = 8/23/2017	CHECKED - CA	REVISED		SHEET NO. 11 OF 11 SHEETS		ILLINOIS FED. AI	ID PROJECT	

