

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
577	C-1-B	WILL & COOK	186	1
		ILLINOIS	CONTRACT NO. 60H21	

FOR INDEX OF SHEETS, SEE SHEET NO. 2

IMPROVEMENT IS LOCATED IN THE VILLAGES OF HOMER GLEN AND LEMONT AND IN HOMER TOWNSHIP AND LEMONT TOWNSHIP

DESIGN DESIGNATION

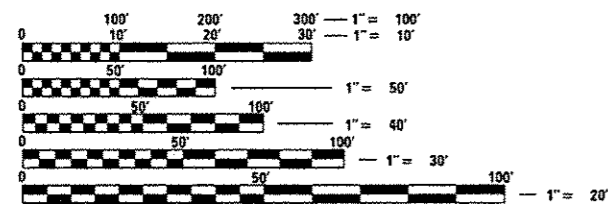
1200(33) PRINCIPAL ARTERIAL 4.59 PCC(20)

TRAFFIC DATA

ADT 11,900 (2015)  
ADT 13,209 (2032)  
11% TRUCK  
DESIGN SPEED 55 MPH  
POSTED SPEED 50 MPH

BRIDGE REPLACEMENT  
STA. 83+57.26 TO STA. 86+03.57  
EXISTING SN 099-0080  
PROPOSED SN 099-0537

END IMPROVEMENT  
STA. 95+68.94

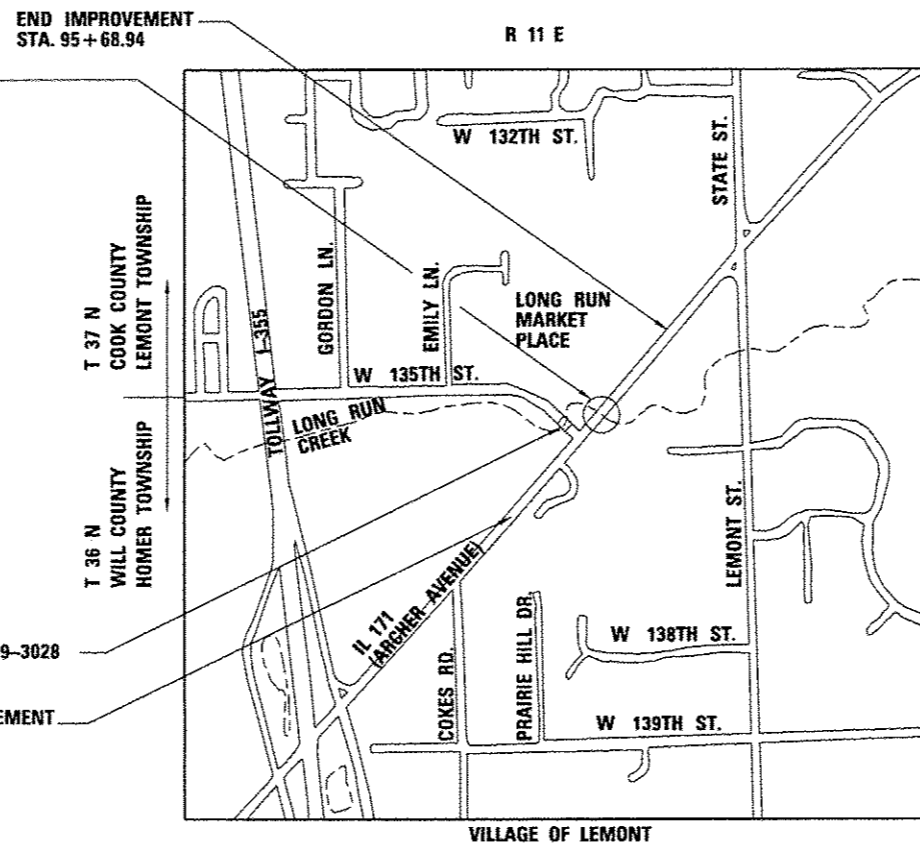


FULL SIZE PLANS HAVE BEEN PREPARED USING STANDARD ENGINEERING SCALES. REDUCED SIZED PLANS WILL NOT CONFORM TO STANDARD SCALES. IN MAKING MEASUREMENTS ON REDUCED PLANS, THE ABOVE SCALES MAY BE USED.

J.U.L.I.E.  
JOINT UTILITY LOCATION INFORMATION FOR EXCAVATION  
1-800-892-0123  
OR 811

EXISTING SN 099-3028

BEGIN IMPROVEMENT  
STA. 74+24.39



LOCATION MAP

NOT TO SCALE

GROSS AND NET LENGTH OF PROJECT = 2,144.55 FT. = 0.406 MILE

PROPOSED  
HIGHWAY PLANS

F.A.P. ROUTE 577: IL 171 (ARCHER AVENUE)  
OVER LONG RUN CREEK  
SECTION C-1-B  
PROJECT: ACNHPP-0577(309)  
BRIDGE REPLACEMENT  
WILL AND COOK COUNTIES

C-91-584-09



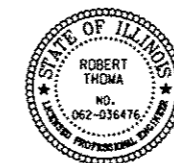
Expires 11-30-2016

*Moussa A. Issa*  
Sheets 90-137 03/16/16



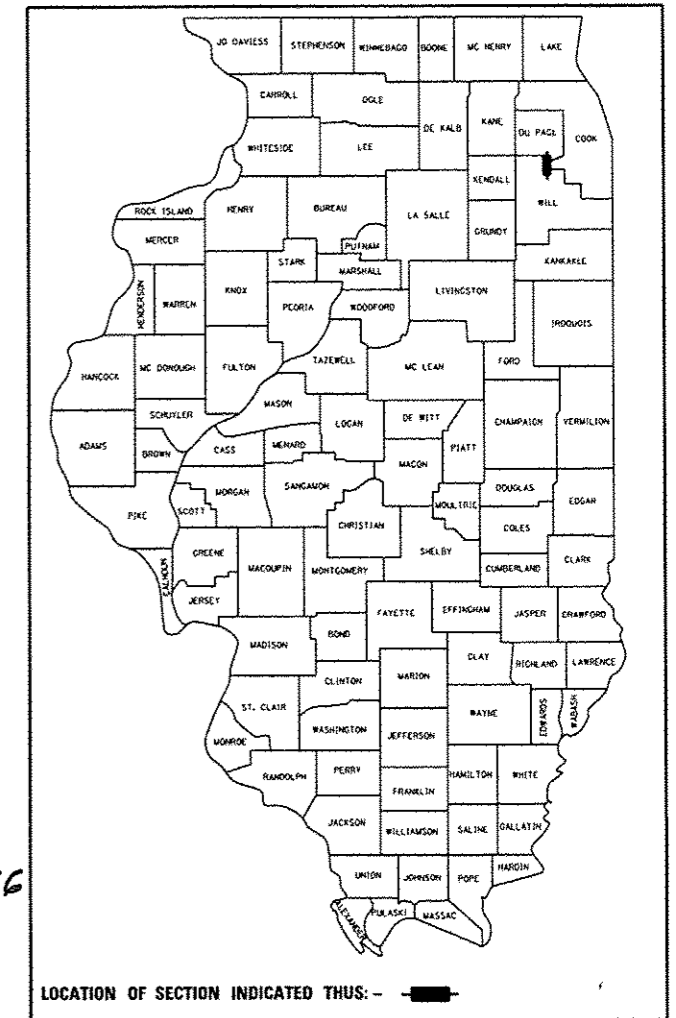
Expires 11-30-2017

*Joseph M. Glennon* 3/16/16  
Sheets 1-23, 26-28, 48, 57



Expires 11-30-2017

*Robert Thoma* 03/16/16  
Sheets 24, 25, 29-47, 49, 54-56  
67-88, 163-186



LOCATION OF SECTION INDICATED THUS: - [black rectangle]

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

SUBMITTED March 17, 2016

*John Furber*  
REGIONAL ENGINEER

May 6, 2016  
*Mahmoud M. Addis* P.E.  
ENGINEER OF DESIGN AND ENVIRONMENT

May 6, 2016  
*Annele A. [Signature]*  
DIRECTOR OF PROGRAM DEVELOPMENT

PRINTED BY THE AUTHORITY  
OF THE STATE OF ILLINOIS

PROJECT MANAGER: KIM HARVEY, PE (847) 705-4055

PROJECT ENGINEER: SUNG BYUN (847) 705-4288

CONTRACT NO. 60H21

**HBM**  
ENGINEERING GROUP, LLC.  
CONSULTING & DESIGN  
INSPECTION & RATING  
RESEARCH & TESTING

4415 WEST HARRISON ST.  
SUITE 231  
HILLSIDE, IL 60162  
PHONE: (708) 236-0900  
FAX: (708) 236-0901



CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE								
				WILL COUNTY	WILL COUNTY	WILL COUNTY	COOK COUNTY	IL RTE 171 AND 135TH	IL RTE 171 AT LONG RUN MARKET	IL RTE 171 AND 135TH (EVP)	IL RTE 171 AT LONG RUN MARKET (EVP)	
				80% FED 20% STATE	80% FED 20% STATE	80% FED 20% STATE	80% FED 20% STATE	WILL COUNTY	COOK COUNTY	WILL COUNTY	COOK COUNTY	
				ROADWAY	BRIDGE	BRIDGE	ROADWAY	TRAFFIC SIGNALS	TRAFFIC SIGNALS	TRAFFIC SIGNALS	TRAFFIC SIGNALS	
				0003	0010	0014	0003	0021	0021	0021	0021	
					S.N. 099-0537	S.N. 099-3028						
* 20100110	TREE REMOVAL (6 TO 15 UNITS DIAMETER)	UNIT	346	287			59					
* 20100210	TREE REMOVAL (OVER 15 UNITS DIAMETER)	UNIT	125	125								
20101000	TEMPORARY FENCE	FOOT	2150	876			1274					
* 20101100	TREE TRUNK PROTECTION	EACH	1	1								
* 20101200	TREE ROOT PRUNING	EACH	2	2								
* 20101300	TREE PRUNING (1 TO 10 INCH DIAMETER)	EACH	2	2								
20200100	EARTH EXCAVATION	CU YD	8670	5580			3090					
20300100	CHANNEL EXCAVATION	CU YD	121	121								
20400800	FURNISHED EXCAVATION	CU YD	8740	5115			3625					
20800150	TRENCH BACKFILL	CU YD	457.5	197.5			260					
* 21101615	TOPSOIL FURNISH AND PLACE, 4"	SQ YD	15430	6860			8570					
21400100	GRADING AND SHAPING DITCHES	FOOT	1683	813			870					
* 25000210	SEEDING, CLASS 2A	ACRE	3	2			1					
* 25000310	SEEDING, CLASS 4	ACRE	1.5	0.25			1.25					

\* SPECIALTY ITEM

3/18/2016

**HBM**  
 ENGINEERING GROUP, LLC  
 CONSULTING & DESIGN  
 INSPECTION & TESTING  
 RESEARCH & TESTING  
 415 WEST HARRISON ST.  
 SUITE 201  
 WILMINGTON, IL 60182  
 PHONE: (708) 236-0900  
 FAX: (708) 236-0901

DESIGNED - JMC	REVISED -
DRAWN - HA	REVISED -
CHECKED - MA	REVISED -
DATE - 03/16/2016	REVISED -
PLOT DATE = 03/11/2016	

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES

SHEET NO. 1 OF 17 SHEETS

F.A.P. RTE. 577	SECTION C-1-B	COUNTY WILL & COOK	TOTAL SHEETS 186	SHEET NO. 3
ILLINOIS FED. AID PROJECT			CONTRACT NO. 60H21	

CONSTRUCTION CODE

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE									
				WILL COUNTY	WILL COUNTY	WILL COUNTY	COOK COUNTY	WILL COUNTY	COOK COUNTY	WILL COUNTY	COOK COUNTY		
				80% FED 20% STATE	80% FED 20% STATE	80% FED 20% STATE	80% FED 20% STATE	80% FED 20% STATE	80% FED 20% VILLAGE OF LEMONT	100% NW HOMER FIRE PROTECTION DISTRICT	100% NW HOMER FIRE PROTECTION DISTRICT		
				ROADWAY 0003	BRIDGE 0010	BRIDGE 0014	ROADWAY 0003	TRAFFIC SIGNALS 0021	TRAFFIC SIGNALS 0021	TRAFFIC SIGNALS 0021	TRAFFIC SIGNALS 0021		
					S.N. 099-0537	S.N. 099-3028							
* 25000400	NITROGEN FERTILIZER NUTRIENT	POUND	473	248			225						
* 25000500	PHOSPHORUS FERTILIZER NUTRIENT	POUND	473	248			225						
* 25000600	POTASSIUM FERTILIZER NUTRIENT	POUND	473	248			225						
* 25000750	MOWING	ACRE	9	5.75			3.25						
* 25000775	SELECTIVE MOWING STAKES	EACH	5	3			2						
* 25100630	EROSION CONTROL BLANKET	SQ YD	12670	4223			8447						
* 25200110	SODDING, SALT TOLERANT	SQ YD	2714	1428			1286						
28000250	TEMPORARY EROSION CONTROL SEEDING	POUND	2200	1100			1100						
28000305	TEMPORARY DITCH CHECKS	FOOT	264	184			80						
28000400	PERIMETER EROSION BARRIER	FOOT	3159	2181			978						
28100107	STONE RIPRAP, CLASS A4	SQ YD	1342	222	1120								
28200200	FILTER FABRIC	SQ YD	1120		1120								
30300112	AGGREGATE SUBGRADE IMPROVEMENT 12"	SQ YD	12936	7780			5156						
31101200	SUBBASE GRANULAR MATERIAL, TYPE B 4"	SQ YD	2731	756			1975						
31102000	SUBBASE GRANULAR MATERIAL, TYPE C	CU YD	359	259			100						

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\* Specialty Items

Rev.

3/18/2016

**HBM**  
 CONSULTING GROUP, LLC  
 4415 WEST HARRISON ST.  
 SUITE 231  
 HILLSDALE, IL 60142  
 PHONE: (708) 238-0900  
 FAX: (708) 238-0901

DESIGNED - JMC	REVISED -
DRAWN - HA	REVISED -
CHECKED - MA	REVISED -
DATE - 03/18/2016	REVISED -

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES

SHEET NO. 2 OF 17 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
577	C-1-B	WILL & COOK	186	4
CONTRACT NO. 60M21			ILLINOIS FED. AID PROJECT	

CONSTRUCTION CODE

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE							
				WILL COUNTY	WILL COUNTY	WILL COUNTY	COOK COUNTY	WILL COUNTY	COOK COUNTY	WILL COUNTY	COOK COUNTY
				80% FED 20% STATE	80% FED 20% STATE	80% FED 20% STATE	80% FED 20% STATE	80% FED 20% STATE	80% FED 20% VILLAGE OF LEMONT	100% NW HOMER FIRE PROTECTION DISTRICT	100% NW HOMER FIRE PROTECTION DISTRICT
				ROADWAY	BRIDGE	BRIDGE	ROADWAY	TRAFFIC SIGNALS	TRAFFIC SIGNALS	TRAFFIC SIGNALS	TRAFFIC SIGNALS
				0003	0010	0014	0003	0021	0021	0021	0021
					S.N. 099-0537	S.N. 099-3028					
31200502	STABILIZED SUBBASE - HOT-MIX ASPHALT, 4 1/2"	SQ YD	10097	5709			4388				
40600290	BITUMINOUS MATERIALS (TACK COAT)	POUND	2280	1070			1210				
40603340	HOT- MIX ASPHALT SURFACE COURS, MIX "D", N70	TON	258	178			80				
42000401	PORTLAND CEMENT CONCRETE PAVEMENT 9" (JOINTED)	SQ YD	9409	5380			4029				
42300200	PORTLAND CEMENT CONCRETE DRIVEWAY PAVEMENT, 6 INCH	SQ YD	112	112							
42300400	PORTLAND CEMENT CONCRETE DRIVEWAY PAVEMENT, 8 INCH	SQ YD	1055	350			705				
42400200	PORTLAND CEMENT CONCRETE SIDEWALK 5 INCH	SQ FT	4456	1061			3395				
42400800	DETECTABLE WARNINGS	SQ FT	81				81				
44000100	PAVEMENT REMOVAL	SQ YD	9231	4256			4975				
44000200	DRIVEWAY PAVEMENT REMOVAL	SQ YD	678	678							
44000500	COMBINATION CURB AND GUTTER REMOVAL	FOOT	2621	1367			1254				
44000600	SIDEWALK REMOVAL	SQ FT	2536				2536				
44003510	MEDIAN REMOVAL PARTIAL DEPTH	SQ FT	1150	1150							
44004250	PAVED SHOULDER REMOVAL	SQ YD	1680	1537			143				
48101202	AGGREGATE SHOULDERS, TYPE B	CU YD	229	146			83				
48101620	AGGREGATE SHOULDERS, TYPE B 10"	SQ YD	36	36							

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3/18/2016

**HBM**  
ENGINEERING GROUP, LLC  
CONSULTING & DESIGN  
CONSTRUCTION & TESTING  
RESEARCH & TESTING

4815 WEST HARRISON ST.  
SUITE 231  
HILLSDALE, IL 60142  
(708) 236-0900  
FAX: (708) 236-0901

DESIGNED - JMC  
DRAWN - HA  
CHECKED - MA  
DATE - 03/18/2016

REVISED -  
REVISED -  
REVISED -  
REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES

SHEET NO. 3 OF 17 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
577	C-1-B	WILL & COOK	186	5
CONTRACT NO. 60H21			ILLINOIS FED. AID PROJECT	

REV

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE									
				WILL COUNTY	WILL COUNTY	WILL COUNTY	COOK COUNTY	WILL COUNTY	COOK COUNTY	WILL COUNTY	COOK COUNTY		
				80% FED 20% STATE	80% FED 20% STATE	80% FED 20% STATE	80% FED 20% STATE	80% FED 20% STATE	80% FED 20% VILLAGE OF LEMONT	100% NW HOMER FIRE PROTECTION DISTRICT	100% NW HOMER FIRE PROTECTION DISTRICT		
				ROADWAY 0003	BRIDGE 0010 S.N. 099-0537	BRIDGE 0014 S.N. 099-3028	ROADWAY 0003	TRAFFIC SIGNALS 0021	TRAFFIC SIGNALS 0021	TRAFFIC SIGNALS 0021	TRAFFIC SIGNALS 0021		
48300400	PORTLAND CEMENT CONCRETE SHOULDERS 9"	SQ YD	680	542			138						
48301000	PROTECTIVE COAT	SQ YD	680	542			138						
50100100	REMOVAL OF EXISTING STRUCTURES	EACH	1		1								
50104400	CONCRETE HEADWALL REMOVAL	EACH	2				2						
50200100	STRUCTURE EXCAVATION	CU YD	232		232								
50200300	COFFERDAM EXCAVATION	CU YD	353		353								
50201121	COFFERDAM (TYPE 2) (LOCATION - 1)	EACH	1		1								
50300100	FLOOR DRAINS	EACH	26		26								
50300225	CONCRETE STRUCTURES	CU YD	423.1		400.3	22.8							
50300255	CONCRETE SUPERSTRUCTURE	CU YD	702.4		699	3.4							
50300260	BRIDGE DECK GROOVING	SQ YD	2871		2645	226							
50300265	SEAL COAT CONCRETE	CU YD	204.3		204.3								
50300300	PROTECTIVE COAT	SQ YD	3198		2949	249							
50301350	CONCRETE SUPERSTRUCTURE (APPROACH SLAB)	CU YD	337.2		235.6	101.6							
50400905	FURNISHING AND ERECTING PRECAST PRESTRESSED CONCRETE I-BEAMS, 42 IN.	FOOT	3395		3395								

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3/18/2016

**HBM**  
 ENGINEERING GROUP, LLC  
 4415 WEST HARRISON ST.  
 SUITE 231  
 WILMINGTON, IL 60182  
 (708) 236-0900  
 (708) 236-0901  
 FAX

DESIGNED - JMC	REVISED -
DRAWN - HA	REVISED -
CHECKED - MA	REVISED -
DATE - 03/18/2016	REVISED -

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES

SHEET NO. 4 OF 17 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
577	C-1-B	WILL & COOK	186	6
CONTRACT NO. 60H21				
ILLINOIS FED. AID PROJECT				

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE									
				WILL COUNTY	WILL COUNTY	WILL COUNTY	COOK COUNTY	WILL COUNTY	COOK COUNTY	WILL COUNTY	COOK COUNTY		
				80% FED 20% STATE	80% FED 20% STATE	80% FED 20% STATE	80% FED 20% STATE	80% FED 20% STATE	80% FED 20% VILLAGE OF LEMONT	100% NW HOMER FIRE PROTECTION DISTRICT	100% NW HOMER FIRE PROTECTION DISTRICT		
				ROADWAY 0003	BRIDGE 0010	BRIDGE 0014	ROADWAY 0003	TRAFFIC SIGNALS 0021	TRAFFIC SIGNALS 0021	TRAFFIC SIGNALS 0021	TRAFFIC SIGNALS 0021		
					S.N. 099-0537	S.N. 099-3028							
50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	325930		297140	28790							
50800515	BAR SPLICERS	EACH	1137		1137								
51201800	FURNISHING STEEL PILES HP14X73	FOOT	3065		3065								
51202305	DRIVING PILES	FOOT	3065		3065								
51203800	TEST PILE STEEL HP14X73	EACH	4		4								
51204650	PILE SHOES	EACH	72		72								
51500100	NAME PLATES	EACH	1		1								
52200010	TEMPORARY SHEET PILING	SQ FT	25396	7298	5036		13062						
52200020	TEMPORARY SOIL RETENTION SYSTEM	SQ FT	162		162								
54215424	CAST-IN-PLACE REINFORCED CONCRETE END SECTIONS 24"	EACH	1	1									
54215430	CAST-IN-PLACE REINFORCED CONCRETE END SECTIONS 30"	EACH	1	1									
54215436	CAST-IN-PLACE REINFORCED CONCRETE END SECTION 36"	EACH	1	1									
54216210	REINFORCED CONCRETE PIPE TEE, 30" PIPE WITH 12" RISER	EACH	1				1						
54216597	REINFORCED CONCRETE PIPE TEE, 36" PIPE WITH 15" RISER	EACH	1				1						

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QUANTITY INCLUDES TEXTURED EPOXY COATED REINFORCEMENT BARS, SEE BRIDGE PLANS

<b>HBM</b> ENGINEERING GROUP, LLC CONSULTING & DESIGN CONSTRUCTION & TESTING RESEARCH & TESTING 4415 WEST HARRISON ST. SUITE 231 HILLSDALE, IL 60142 (708) 236-0900 (708) 236-0901 FAX:	DESIGNED - JMG	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SUMMARY OF QUANTITIES  SHEET NO. 5 OF 17 SHEETS	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	DRAWN - HA	REVISED -			577	C-1-B	WILL & COOK	186	7
	CHECKED - MA	REVISED -			CONTRACT NO. 60H21				
	DATE - 03/18/2016	REVISED -			ILLINOIS FED. AID PROJECT				
PLOT DATE = 03/11/2016	DATE - 03/18/2016	REVISED -							

3/18/2016

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE							
								IL RTE 171 AND 135TH	IL RTE 171 AT LONG RUN MARKET	IL RTE 171 AND 135TH (EVP)	IL RTE 171 AT LONG RUN MARKET (EVP)
				WILL COUNTY	WILL COUNTY	WILL COUNTY	COOK COUNTY	WILL COUNTY	COOK COUNTY	WILL COUNTY	COOK COUNTY
				80% FED 20% STATE	80% FED 20% STATE	80% FED 20% STATE	80% FED 20% STATE	80% FED 20% STATE	80% FED 20% VILLAGE OF LEMONT	100% NW HOMER FIRE PROTECTION DISTRICT	100% NW HOMER FIRE PROTECTION DISTRICT
				ROADWAY	BRIDGE	BRIDGE	ROADWAY	TRAFFIC SIGNALS	TRAFFIC SIGNALS	TRAFFIC SIGNALS	TRAFFIC SIGNALS
				0003	0010	0014	0003	0021	0021	0021	0021
					S.N. 099-0537	S.N. 099-3028					
54260311	TRAVERSABLE PIPE GRATE	FOOT	11.33				11.33				
54261324	CONCRETE END SECTION, STANDARD 542001, 24", 1:3	EACH	3	3							
54261330	CONCRETE END SECTION, STANDARD 542001, 30", 1:3	EACH	1				1				
54261415	CONCRETE END SECTION, STANDARD 542001, 15", 1:4	EACH	1	1							
542D1909	PIPE CULVERTS, CLASS D, TYPE 3 24"	FOOT	264	264							
550A0340	STORM SEWERS, CLASS A, TYPE 2 12"	FOOT	89				89				
550A0360	STORM SEWERS, CLASS A, TYPE 2 15"	FOOT	112	106			6				
550A0750	STORM SEWERS, CLASS A, TYPE 3 36"	FOOT	246	84			162				
550B0680	STORM SEWERS, CLASS B, TYPE 3 18"	FOOT	111	111							
550B0700	STORM SEWERS, CLASS B, TYPE 3 21"	FOOT	96	96							
550B0730	STORM SEWERS, CLASS B, TYPE 3 30"	FOOT	323	323							
550B0750	STORM SEWERS, CLASS B, TYPE 3 36"	FOOT	43	43							
55101200	STORM SEWER REMOVAL 24"	FOOT	662				662				

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3/18/2016



CONSTRUCTION CODE								
				IL RTE 171 AND 135TH	IL RTE 171 AT LONG RUN MARKET	IL RTE 171 AND 135TH (EVP)	IL RTE 171 AT LONG RUN MARKET (EVP)	
WILL COUNTY	WILL COUNTY	WILL COUNTY	COOK COUNTY	WILL COUNTY	COOK COUNTY	WILL COUNTY	COOK COUNTY	
80% FED 20% STATE	80% FED 20% STATE	80% FED 20% STATE	80% FED 20% STATE	80% FED 20% STATE	80% FED 20% VILLAGE OF LEMONT	100% NW HOMER FIRE PROTECTION DISTRICT	100% NW HOMER FIRE PROTECTION DISTRICT	
ROADWAY	BRIDGE	BRIDGE	ROADWAY	TRAFFIC SIGNALS	TRAFFIC SIGNALS	TRAFFIC SIGNALS	TRAFFIC SIGNALS	
0003	0010	0014	0003	0021	0021	0021	0021	
		S.N. 099-0537	S.N. 099-3028					

URBAN

CODE NO.	ITEM	UNIT	TOTAL QUANTITY										
56400300	FIRE HYDRANTS TO BE ADJUSTED	EACH	1				1						
56400400	FIRE HYDRANTS TO BE RELOCATED	EACH	2				2						
59100100	GEOCOMPOSITE WALL DRAIN	SQ YD	164		164								
60100060	CONCRETE HEADWALLS FOR PIPE DRAINS	EACH	8	6			2						
60100080	FRENCH DRAINS	CU YD	33	12			21						
60100085	GEOTECHNICAL FABRIC FOR FRENCH DRAINS	SQ YD	121	68			53						
60100905	PIPE DRAINS 4"	FOOT	106	106									
60108100	PIPE UNDERDRAINS 4" (SPECIAL)	FOOT	1007	163			844						
60108104	PIPE UNDERDRAINS, TYPE 1, 4"	FOOT	271	153			118						
60201330	CATCH BASINS, TYPE A, 4'-DIAMETER, TYPE 23 FRAME AND GRATE	EACH	3				3						
60201340	CATCH BASINS, TYPE A, 4'-DIAMETER, TYPE 24 FRAME AND GRATE	EACH	2				2						
60208230	CATCH BASINS, TYPE C, TYPE 23 FRAME AND GRATE	EACH	1				1						
60218400	MANHOLES, TYPE A, 4'-DIAMETER, TYPE 1 FRAME, CLOSED LID	EACH	2	2									
60219000	MANHOLES, TYPE A, 4'-DIAMETER, TYPE 8 GRATE	EACH	5	5									

3/18/2016

<b>HBM</b> ENGINEERING GROUP, LLC 4415 WEST HARRISON ST. SUITE 231 BELLVILLE, IL 60112 PHONE: (708) 236-0900 FAX: (708) 236-0901	DESIGNED - JMG	REVISED -
	DRAWN - HA	REVISED -
	CHECKED - MA	REVISED -
	DATE - 03/18/2016	REVISED -
PLOT DATE = 03/11/2016		

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

SUMMARY OF QUANTITIES				
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
577	C-1-B	WILL & COOK	186	9
SHEET NO. 7 OF 17 SHEETS				

ILLINOIS FED. AID PROJECT	CONTRACT NO. 60H21
---------------------------	--------------------

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE							
				URBAN				IL RTE 171 AND 135TH	IL RTE 171 AT LONG RUN MARKET	IL RTE 171 AND 135TH (EVP)	IL RTE 171 AT LONG RUN MARKET (EVP)
				WILL COUNTY	WILL COUNTY	WILL COUNTY	COOK COUNTY	WILL COUNTY	COOK COUNTY	WILL COUNTY	COOK COUNTY
				80% FED 20% STATE	80% FED 20% STATE	80% FED 20% STATE	80% FED 20% STATE	80% FED 20% STATE	80% FED 20% VILLAGE OF LEMONT	100% NW HOMER FIRE PROTECTION DISTRICT	100% NW HOMER FIRE PROTECTION DISTRICT
				ROADWAY	BRIDGE	BRIDGE	ROADWAY	TRAFFIC SIGNALS	TRAFFIC SIGNALS	TRAFFIC SIGNALS	TRAFFIC SIGNALS
				0003	0010	0014	0003	0021	0021	0021	0021
					S.N. 099-0537	S.N. 099-3028					
60237470	INLETS, TYPE A, TYPE 24 FRAME AND GRATE	EACH	1				1				
60240328	INLETS, TYPE B, TYPE 24 FRAME AND GRATE	EACH	3	2			1				
60250200	CATCH BASINS TO BE ADJUSTED	EACH	3	1			2				
60255500	MANHOLES TO BE ADJUSTED	EACH	1	1							
60266100	VALVE VAULTS TO BE RECONSTRUCTED	EACH	1				1				
60500050	REMOVING CATCH BASINS	EACH	8	3			5				
60500060	REMOVING INLETS	EACH	10		5		5				
60600095	CLASS SI CONCRETE (OUTLET)	CU YD	2.4	2.4							
60600605	CONCRETE CURB, TYPE B	FOOT	177				177				
60603800	COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.12	FOOT	236.5				236.5				
60605000	COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.24	FOOT	1090	229			861				
60610400	COMBINATION CONCRETE CURB AND GUTTER, TYPE M-6.24	FOOT	1068	1068							

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CONSTRUCTION CODE

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE									
				URBAN				IL RTE 171 AND 135TH	IL RTE 171 AT LONG RUN MARKET	IL RTE 171 AND 135TH (EVP)	IL RTE 171 AT LONG RUN MARKET (EVP)		
				WILL COUNTY 80% FED 20% STATE	WILL COUNTY 80% FED 20% STATE	WILL COUNTY 80% FED 20% STATE	COOK COUNTY 80% FED 20% STATE	WILL COUNTY 80% FED 20% STATE	COOK COUNTY 80% FED 20% VILLAGE OF LEMONT	WILL COUNTY 100% NW HOMER FIRE PROTECTION DISTRICT	COOK COUNTY 100% NW HOMER FIRE PROTECTION DISTRICT		
ROADWAY 0003	BRIDGE 0010	BRIDGE 0014	ROADWAY 0003	TRAFFIC SIGNALS 0021	TRAFFIC SIGNALS 0021	TRAFFIC SIGNALS 0021	TRAFFIC SIGNALS 0021						
					S.N. 099-0537	S.N. 099-3028							
60618210	HOT-MIX ASPHALT MEDIAN SURFACE, 4 INCH	SQ FT	1150	1150									
* 63000001	STEEL PLATE BEAM GUARDRAIL, TYPE A, 6 FOOT POSTS	FOOT	125	125									
* 63100045	TRAFFIC BARRIER TERMINAL, TYPE 2	EACH	1	1									
* 63100085	TRAFFIC BARRIER TERMINAL, TYPE 6	EACH	6	6									
* 63100167	TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT	EACH	3	3									
63200310	GUARDRAIL REMOVAL	FOOT	690	690									
63301210	REMOVE AND REERECT STEEL PLATE BEAM GUARDRAIL, TYPE A	FOOT	277	277									
67000400	ENGINEER'S FIELD OFFICE, TYPE A	CAL MO	18	9			9						
67100100	MOBILIZATION	L SUM	1.0	0.5			0.5						
70103815	TRAFFIC CONTROL SURVEILLANCE	CAL DA	360	180			180						
70106800	CHANGEABLE MESSAGE SIGN	CAL MD	4	4									
70300220	TEMPORARY PAVEMENT MARKING - LINE 4"	FOOT	15153	11840			3313						
70300210	TEMPORARY PAVEMENT MARKING - LETTERS AND	SQ FT	619	437			182						
70300240	TEMPORARY PAVEMENT MARKING - LINE 6" SYMBOLS	FOOT	1925	953			972						
70300280	TEMPORARY PAVEMENT MARKING - LINE 24"	FOOT	218	97			121						
<del>70300510</del>	<del>PAVEMENT MARKING TAPE, TYPE III - LETTERS AND SYMBOLS</del>	<del>SQ FT</del>	<del>499</del>	<del>84</del>			<del>415</del>						

\*Specialty Items

Rev.

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES

SHEET NO. 9 OF 17 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
577	C-1-B	WILL & COOK	186	11
CONTRACT NO. 60H21			ILLINOIS FED. AID PROJECT	

**HBM**  
4415 WEST HARRISON ST.  
SUITE 231  
HILLSDALE, IL 60122  
PHONE: (708) 234-0900  
FAX: (708) 234-0901

DESIGNED - JMG	REVISED -
DRAWN - HA	REVISED -
CHECKED - MA	REVISED -
DATE - 03/18/2016	REVISED -

3/18/2016

CONSTRUCTION CODE

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE									
				WILL COUNTY	WILL COUNTY	WILL COUNTY	COOK COUNTY	WILL COUNTY	COOK COUNTY	WILL COUNTY	COOK COUNTY		
				80% FED 20% STATE	80% FED 20% STATE	80% FED 20% STATE	80% FED 20% STATE	80% FED 20% STATE	80% FED 20% VILLAGE OF LEMONT	100% NW HOMER FIRE PROTECTION DISTRICT	100% NW HOMER FIRE PROTECTION DISTRICT		
				ROADWAY 0003	BRIDGE 0010	BRIDGE 0014	ROADWAY 0003	TRAFFIC SIGNALS 0021	TRAFFIC SIGNALS 0021	TRAFFIC SIGNALS 0021	TRAFFIC SIGNALS 0021		
					S.N. 099-0537	S.N. 099-3028							
70300520	PAVEMENT MARKING TAPE, TYPE III 4"	FOOT	45000	32000			13000						
70300540	PAVEMENT MARKING TAPE, TYPE III 6"	FOOT	2402	152			2250						
70300570	PAVEMENT MARKING TAPE, TYPE III 24"	FOOT	228				228						
70400100	TEMPORARY CONCRETE BARRIER	FOOT	2190	1372			818						
70400200	RELOCATE TEMPORARY CONCRETE BARRIER	FOOT	3913	1661			2252						
70600250	IMPACT ATTENUATORS, TEMPORARY (NON- REDIRECTIVE), TEST LEVEL 3	EACH	6	3			3						
70600350	IMPACT ATTENUATORS, RELOCATE (NON- REDIRECTIVE), TEST LEVEL 3	EACH	12	7			5						
* 72000100	SIGN PANEL - TYPE 1	SQ FT	145.25	29.5			99.25	16.5					
* 76000600	THERMOPLASTIC PAVEMENT MARKING - LINE 12"	FOOT	246	130			116						
* 72000200	SIGN PANEL - TYPE 2	SQ FT	25					12.5	12.5				
* 76000200	THERMOPLASTIC PAVEMENT MARKING - LINE 4"	FOOT	138				138						
* 72400310	REMOVE SIGN PANEL - TYPE 1	SQ FT	118	63.5			54.5						
* 76005100	EPOXY PAVEMENT MARKING - LETTERS AND SYMBOLS	SQ FT	55	55									
* 72800100	TELESCOPING STEEL SIGN SUPPORT	FOOT	353	86			267						
* 76005110	EPOXY PAVEMENT MARKING - LINE 4"	FOOT	11000	6875			4125						
* 73100100	BASE FOR TELESCOPING STEEL SIGN SUPPORT	EACH	3				3						
* 76005130	EPOXY PAVEMENT MARKING - LINE 6"	FOOT	70				70						
* 73700100	REMOVE GROUND MOUNTED SIGN SUPPORT	EACH	17	8			9						
* 76005180	EPOXY PAVEMENT MARKING - LINE 24"	FOOT	37	37									

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\*Specialty Items

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**HBM**  
 ENGINEERING & DESIGN  
 CONSULTING & SURVEYING  
 4415 WEST HARRISON ST.  
 SUITE 201  
 HIALEAH, FL 33012  
 PHONE: (305) 236-0900  
 FAX: (305) 236-0901

DESIGNED - JMG	REVISED -
DRAWN - HA	REVISED -
CHECKED - MA	REVISED -
DATE - 03/18/2016	REVISED -

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES  
 SHEET NO. 10 OF 17 SHEETS

F.A.P. RTE. 577	SECTION C-1-B	COUNTY WILL & COOK	TOTAL SHEETS 186	SHEET NO. 12
CONTRACT NO. 60H21				
ILLINOIS FED. AID PROJECT				

CONSTRUCTION CODE

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE									
				WILL COUNTY	WILL COUNTY	WILL COUNTY	COOK COUNTY	WILL COUNTY	COOK COUNTY	WILL COUNTY	COOK COUNTY		
				80% FED 20% STATE	80% FED 20% STATE	80% FED 20% STATE	80% FED 20% STATE	80% FED 20% STATE	80% FED 20% VILLAGE OF LEMONT	100% NW HOMER FIRE PROTECTION DISTRICT	100% NW HOMER FIRE PROTECTION DISTRICT		
				ROADWAY 0003	BRIDGE 0010	BRIDGE 0014	ROADWAY 0003	TRAFFIC SIGNALS 0021	TRAFFIC SIGNALS 0021	TRAFFIC SIGNALS 0021	TRAFFIC SIGNALS 0021		
					S.N. 099-0537	S.N. 099-3028							
* 78008200	POLYUREA PAVEMENT MARKING TYPE I - LETTERS AND SYMBOLS	SQ FT	437	255			182						
* 78008210	POLYUREA PAVEMENT MARKING TYPE I - LINE 4"	FOOT	15015	11840			3175						
* 78008230	POLYUREA PAVEMENT MARKING TYPE I - LINE 6"	FOOT	1433	693			740						
* 78008250	POLYUREA PAVEMENT MARKING TYPE I - LINE 12"	FOOT	578	366			212						
* 78008270	POLYUREA PAVEMENT MARKING TYPE I - LINE 24"	FOOT	218	97			121						
* 78100100	RAISED REFLECTIVE PAVEMENT MARKER	EACH	194	124			70						
* 78100105	RAISED REFLECTIVE PAVEMENT MARKER (BRIDGE)	EACH	16	16									
78300100	PAVEMENT MARKING REMOVAL	SQ FT	19631	10621			9010						
* 80500010	SERVICE INSTALLATION - GROUND MOUNTED	EACH	1							1			
* 80500020	SERVICE INSTALLATION - POLE MOUNTED	EACH	1					1					
* 81028200	UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA.	FOOT	1747					723		1024			
* 81028210	UNDERGROUND CONDUIT, GALVANIZED STEEL, 2 1/2" DIA.	FOOT	49					20		29			
* 81028220	UNDERGROUND CONDUIT, GALVANIZED STEEL, 3" DIA.	FOOT	44					4		40			
* 81028240	UNDERGROUND CONDUIT, GALVANIZED STEEL, 4" DIA.	FOOT	705					336		369			
* 81200230	CONDUIT EMBEDDED IN STRUCTURE, 2" DIA., PVC	FOOT	245					245					

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\* SPECIALTY ITEM

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3/18/2016

**HBM**  
ENGINEERING GROUP, LLC  
CONSULTING & DESIGN  
INSPECTION & TESTING  
RESEARCH & TESTING  
4415 WEST HARRISON ST.  
SUITE 231  
MELROSE, IL 60112  
PHONE: (708) 236-0900  
FAX: (708) 236-0901

DESIGNED - JMG	REVISED -
DRAWN - HA	REVISED -
CHECKED - MA	REVISED -
DATE - 03/18/2016	REVISED -

PLOT DATE = 03/11/2016

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES

SHEET NO. 11 OF 17 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
577	C-1-B	WILL & COOK	186	13
CONTRACT NO. 60H21				
ILLINOIS FED. AID PROJECT				

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE							
								IL RTE 171 AND 135TH	IL RTE 171 AT LONG RUN MARKET	IL RTE 171 AND 135TH (EVP)	IL RTE 171 AT LONG RUN MARKET (EVP)
				WILL COUNTY	WILL COUNTY	WILL COUNTY	COOK COUNTY	WILL COUNTY	COOK COUNTY	WILL COUNTY	COOK COUNTY
				80% FED 20% STATE	80% FED 20% STATE	80% FED 20% STATE	80% FED 20% STATE	80% FED 20% STATE	80% FED 20% VILLAGE OF LEMONT	100% NW HOMER FIRE PROTECTION DISTRICT	100% NW HOMER FIRE PROTECTION DISTRICT
				ROADWAY	BRIDGE	BRIDGE	ROADWAY	TRAFFIC SIGNALS	TRAFFIC SIGNALS	TRAFFIC SIGNALS	TRAFFIC SIGNALS
				0003	0010	0014	0003	0021	0021	0021	0021
					S.N. 099-0537	S.N. 099-3028					
<del>81300710</del>	<del>JUNCTION BOX, STAINLESS STEEL, ATTACHED TO STRUCTURE, 16" X 12" X 6"</del>	EACH	2					2			
* 81301110	JUNCTION BOX, STAINLESS STEEL, EMBEDDED IN STRUCTURE, 12" X 8" X 6"	EACH	2					2			
* 81400100	HANDHOLE	EACH	11					5	6		
* 81400200	HEAVY-DUTY HANDHOLE	EACH	4					2	2		
* 81400300	DOUBLE HANDHOLE	EACH	2					1	1		
* 85000200	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1						1		
* 86400100	TRANSCEIVER - FIBER OPTIC	EACH	2					1	1		
<del>87100100</del>	<del>FIBER OPTIC CABLE IN CONDUIT, NO. 62.5/125, 24F</del>	FOOT	2086					602	1484		
* 87300925	ELECTRIC CABLE IN CONDUIT, TRACER, NO. 14 1C	FOOT	2086					602	1484		
* 87301215	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C	FOOT	251						251		
* 87301225	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	1017					262	755		
* 87301245	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	FOOT	2084					1124	1760		
* 87301255	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C	FOOT	1232					716	516		

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\* SPECIALTY ITEM

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CONSTRUCTION CODE							
				IL RTE 171 AND 135TH	IL RTE 171 AT LONG RUN MARKET	IL RTE 171 AND 135TH (EVP)	IL RTE 171 AT LONG RUN MARKET (EVP)
WILL COUNTY	WILL COUNTY	WILL COUNTY	COOK COUNTY	WILL COUNTY	COOK COUNTY	WILL COUNTY	COOK COUNTY
80% FED 20% STATE	80% FED 20% STATE	80% FED 20% STATE	80% FED 20% STATE	80% FED 20% STATE	80% FED 20% VILLAGE OF LEMONT	100% NW HOMER FIRE PROTECTION DISTRICT	100% NW HOMER FIRE PROTECTION DISTRICT
ROADWAY	BRIDGE	BRIDGE	ROADWAY	TRAFFIC SIGNALS	TRAFFIC SIGNALS	TRAFFIC SIGNALS	TRAFFIC SIGNALS
0003	0010	0014	0003	0021	0021	0021	0021

URBAN

CODE NO.	ITEM	UNIT	TOTAL QUANTITY									
* 87301305	ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1 PAIR	FOOT	2438						964	1474		
* 87301732	ELECTRIC CABLE IN CONDUIT, COMMUNICATION NO. 20 3C	FOOT	676							264	412	
* 87301805	ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2 C	FOOT	223					90	133			
* 87301900	ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C	FOOT	961					429	532			
* 87502500	TRAFFIC SIGNAL POST, GALVANIZED STEEL 16 FT.	EACH	2					1	1			
* 87700170	STEEL MAST ARM ASSEMBLY AND POLE, 26 FT.	EACH	1					1				
* 87700180	STEEL MAST ARM ASSEMBLY AND POLE, 28 FT.	EACH	1						1			
* 87700190	STEEL MAST ARM ASSEMBLY AND POLE, 30 FT.	EACH	1					1				
* 87700210	STEEL MAST ARM ASSEMBLY AND POLE, 34 FT.	EACH	1						1			
* 87700220	STEEL MAST ARM ASSEMBLY AND POLE, 36 FT.	EACH	1						1			
* 87700260	STEEL MAST ARM ASSEMBLY AND POLE, 44 FT.	EACH	1					1				
* 87800100	CONCRETE FOUNDATION, TYPE A	FOOT	8					4	4			
* 87800150	CONCRETE FOUNDATION, TYPE C	FOOT	8					4	4			
* 87800400	CONCRETE FOUNDATION, TYPE E 30-INCH DIAMETER	FOOT	33.5					23.5	10			

\* SPECIALTY ITEM

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Rev.

<b>HBM</b> ENGINEERING GROUP, LLC CONSULTING & DESIGN INSPECTION & TESTING RESEARCH & TESTING 4415 WEST HARRISON ST. SUITE 231 MELROSE, IL 60142 PHONE: (708) 236-0900 FAX: (708) 236-0901	DESIGNED - JMG	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SUMMARY OF QUANTITIES  SHEET NO. 13 OF 17 SHEETS	F.A.P. RTE. 577	SECTION C-1-B	COUNTY WILL & COOK	TOTAL SHEETS 186	SHEET NO. 15
	DRAWN - HA	REVISED -			CONTRACT NO. 60H21				
	CHECKED - MA	REVISED -			ILLINOIS FED. AID PROJECT				
PLOT DATE = 03/11/2016	DATE - 03/18/2016	REVISED -							

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE							
								IL RTE 171 AND 135TH	IL RTE 171 AT LONG RUN MARKET	IL RTE 171 AND 135TH (EVP)	IL RTE 171 AT LONG RUN MARKET (EVP)
				WILL COUNTY	WILL COUNTY	WILL COUNTY	COOK COUNTY	WILL COUNTY	COOK COUNTY	WILL COUNTY	COOK COUNTY
				80% FED 20% STATE	80% FED 20% STATE	80% FED 20% STATE	80% FED 20% STATE	80% FED 20% STATE	80% FED 20% VILLAGE OF LEMONT	100% NW HOMER FIRE PROTECTION DISTRICT	100% NW HOMER FIRE PROTECTION DISTRICT
				ROADWAY	BRIDGE	BRIDGE	ROADWAY	TRAFFIC SIGNALS	TRAFFIC SIGNALS	TRAFFIC SIGNALS	TRAFFIC SIGNALS
				0003	0010	0014	0003	0021	0021	0021	0021
					S.N. 099-0537	S.N. 099-3028					
* 87800415	CONCRETE FOUNDATION, TYPE E 36-INCH DIAMETER	FOOT	35					13	22		
* 88030020	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST-ARM MOUNTED	EACH	8					4	4		
* 88030050	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED	EACH	6					3	3		
* 88030100	SIGNAL HEAD, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED	EACH	4					2	2		
* 88030110	SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST-ARM MOUNTED	EACH	4					2	2		
* 88102710	PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED	EACH	2						2		
* 88200410	TRAFFIC SIGNAL BACKPLATE, LOUVERED, FORMED PLASTIC	EACH	12					6	6		
* 88500500	INDUCTION LOOP DETECTOR AMPLIFIER	EACH	10					5	5		
* 88600700	PREFORMED DETECTOR LOOP	FOOT	1105					466	639		
* 88700200	LIGHT DETECTOR	EACH	4							2	2
* 88700300	LIGHT DETECTOR AMPLIFIER	EACH	2							1	1
* 88800100	PEDESTRIAN PUSH-BUTTON	EACH	2						2		
* 89000100	TEMPORARY TRAFFIC SIGNAL INSTALLATION	EACH	1						1		
* 89502375	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1						1		

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\* SPECIALTY ITEM

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CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE								
								IL RTE 171 AND 135TH	IL RTE 171 AT LONG RUN MARKET	IL RTE 171 AND 135TH (EVP)	IL RTE 171 AT LONG RUN MARKET (EVP)	
				WILL COUNTY	WILL COUNTY	WILL COUNTY	COOK COUNTY	WILL COUNTY	COOK COUNTY	WILL COUNTY	COOK COUNTY	
				80% FED 20% STATE	80% FED 20% STATE	80% FED 20% STATE	80% FED 20% STATE	80% FED 20% STATE	80% FED 20% VILLAGE OF LEMONT	100% NW HOMER FIRE PROTECTION DISTRICT	100% NW HOMER FIRE PROTECTION DISTRICT	
				ROADWAY 0003	BRIDGE 0010	BRIDGE 0014	ROADWAY 0003	TRAFFIC SIGNALS 0021	TRAFFIC SIGNALS 0021	TRAFFIC SIGNALS 0021	TRAFFIC SIGNALS 0021	
					S.N. 099-0537	S.N. 099-3028						
* 89502380	REMOVE EXISTING HANDHOLE	EACH	8							8		
* 89502385	REMOVE EXISTING CONCRETE FOUNDATION	EACH	8							8		
* A2006516	TREE, QUERCUS BICOLOR (SWAMP WHITE OAK), 2" CALIPER, BALLED AND BURLAPPED	EACH	3				3					
* A2007820	TREE, TILIA AMERICANA (AMERICAN LINDEN/ BASSWOOD), 2-1/2" CALIPER, BALLED AND BURLAPPED	EACH	1	1								
* B2000766	TREE, AMELANCHIER X GRANDIFLORA AUTUMN BRILLIANCE (AUTUMN BRILLIANCE SERVICE BERRY), 6' HEIGHT, SHRUB FORM, BALLED AND BURLAPPED	EACH	9	1			8					
* B2001666	TREE, CRATAEGUS CRUSGALLI INERMIS (THORNLESS COCKSPUR HAWTHORN), 6' HEIGHT, SHRUB FORM, BALLED AND BURLAPPED	EACH	18	13			5					
* C2002048	SHRUB, CORYLUS AMERICANA (AMERICAN FILBERT), 4' HEIGHT, BALLED AND BURLAPPED	EACH	13	13								
* C2C01424	SHRUB, CORNUS AMOMUM (SILKY DOGWOOD), 2' HEIGHT, CONTAINER	EACH	20	20								
* C2C09624	SHRUB, SAMBUCUS CANADENSIS (AMERICAN ELDER), 2' HEIGHT, CONTAINER	EACH	12	12								
* C2C11024	SHRUB, SYRINGA PATULA MISS KIM (MISS KIM MANCHURIAN LILAC), 2' HEIGHT, CONTAINER	EACH	240				240					
* D2002484	EVERGREEN, PINUS FLEXILIS VANDERWOLF'S PYRAMID (VANDERWOLF'S PYRAMID LIMBER PINE), 7' HEIGHT, BALLED AND BURLAPPED	EACH	27	18			9					
* K0029634	WEED CONTROL, PRE-EMERGENT GRANULAR HERBICIDE	POUND	13	8			5					
* K0036120	MULCH PLACEMENT 4"	SQ YD	440				440					
X0322917	PROPOSED STORM SEWER CONNECTION TO EXISTING MANHOLE	EACH	1				1					

\* SPECIALTY ITEM

URBAN

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CONSTRUCTION CODE

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE							
				WILL COUNTY	WILL COUNTY	WILL COUNTY	COOK COUNTY	WILL COUNTY	COOK COUNTY	WILL COUNTY	COOK COUNTY
				80% FED 20% STATE	80% FED 20% STATE	80% FED 20% STATE	80% FED 20% STATE	80% FED 20% STATE	80% FED 20% VILLAGE OF LEMONT	100% NW HOMER FIRE PROTECTION DISTRICT	100% NW HOMER FIRE PROTECTION DISTRICT
				IL RTE 171 AND 135TH	IL RTE 171 AT LONG RUN MARKET	IL RTE 171 AND 135TH (EVP)	IL RTE 171 AT LONG RUN MARKET (EVP)				
				ROADWAY 0003	BRIDGE 0010	BRIDGE 0014	ROADWAY 0003	TRAFFIC SIGNALS 0021	TRAFFIC SIGNALS 0021	TRAFFIC SIGNALS 0021	TRAFFIC SIGNALS 0021
					S.N. 099-0537	S.N. 099-3028					
	<i>URBAN</i>										
* X0324085	EMERGENCY VEHICLE PRIORITY SYSTEM LINE SENSOR CABLE, NO. 20 3/C	FOOT	745								
* X0324599	ROD AND CLEAN EXISTING CONDUIT	FOOT	50						50		
* X0325938	TEMPORARY WIRELESS INTERCONNECT, COMPLETE	L SUM	1						1		
X0350810	BOLLARD REMOVAL	EACH	4	4							
* X1400081	FULL-ACTUATED CONTROLLER AND TYPE SUPER P CABINET (SPECIAL)	EACH	2					1	1		
* X2502024	SEEDING, CLASS 4B (MODIFIED)	ACRE	0.75	0.5			0.25				
X4021000	TEMPORARY ACCESS (PRIVATE ENTRANCE)	EACH	4	4							
X4022000	TEMPORARY ACCESS (COMMERCIAL ENTRANCE)	EACH	5	3			2				
X7030025	WET REFLECTIVE TEMPORARY TAPE, TYPE III - LETTERS AND SYMBOLS	SQ FT	512	360			152				
X5860110	GRANULAR BACKFILL FOR STRUCTURES	CU YD	342		320	22					
X7030030	WET REFLECTIVE TEMPORARY TAPE TYPE III, 4 INCH	FOOT	43,100	30,500			12,600				
X7010216	TRAFFIC CONTROL AND PROTECTION, (SPECIAL)	LSUM	1	0.5			0.5				
X7030040	WET REFLECTIVE TEMPORARY TAPE TYPE III, 6 INCH	FOOT	2560	160			2400				
X7040125	PINNING TEMPORARY CONCRETE BARRIER	EACH	1287	597			690				
X7030055	WET REFLECTIVE TEMPORARY TAPE TYPE III, 24 INCH	FOOT	385	150			235				
* X8620200	UNINTERRUPTABLE POWER SUPPLY, SPECIAL	EACH	2					1	1		
* X8710024	FIBER OPTIC CABLE IN CONDUIT NO. 02.5/125, MM 12F SM24F	FOOT	2086					602	1484		
* X8730250	ELECTRIC CABLE IN CONDUIT NO. 20 3/C, TWISTED, SHIELDED	FOOT	676					264	412		
Z0001495	BRIDGE APPROACH SHOULDER REMOVAL	SQ YD	162	162							
Z0004552	APPROACH SLAB REMOVAL	SQ YD	469	469							

\* SPECIALTY ITEM

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<b>HBM</b> 445 WEST HARRISON ST. SUITE 231 WILSONVILLE, IL 60182 PHONE: (708) 236-0900 FAX: (708) 236-0901	DESIGNED - JMC	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SUMMARY OF QUANTITIES SHEET NO. 16 OF 17 SHEETS	F.A.P. RTE. 577	SECTION C-1-B	COUNTY WILL & COOK	TOTAL SHEETS 186	SHEET NO. 18
	DRAWN - HA	REVISED -			CONTRACT NO. 60H21	ILLINOIS FED. AID PROJECT			
CHECKED - MA DATE - 03/11/2016	REVISIONS REVISIONS REVISIONS	REVISIONS REVISIONS REVISIONS							

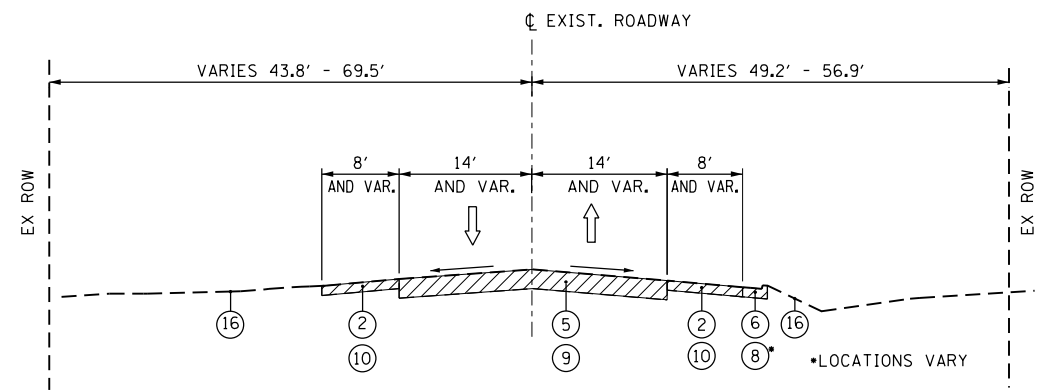
Rev.

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE															
				WILL COUNTY	WILL COUNTY	WILL COUNTY	COOK COUNTY	WILL COUNTY	COOK COUNTY	WILL COUNTY	COOK COUNTY								
				80% FED 20% STATE	80% FED 20% STATE	80% FED 20% STATE	80% FED 20% STATE	80% FED 20% STATE	80% FED 20% VILLAGE OF LEMONT	100% NW HOMER FIRE PROTECTION DISTRICT	100% NW HOMER FIRE PROTECTION DISTRICT								
				ROADWAY 0003	BRIDGE 0010 S.N. 099-0537	BRIDGE 0014 S.N. 099-3028	ROADWAY 0003	TRAFFIC SIGNALS 0021	TRAFFIC SIGNALS 0021	TRAFFIC SIGNALS 0021	TRAFFIC SIGNALS 0021								
Z0004638	PAVEMENT BREAKING	SQ YD	3500	700			2800												
Z0004640	PAVED SHOULDER BREAKING	SQ YD	256	256															
Z0013798	CONSTRUCTION LAYOUT	LSUM	1	0.5			0.5												
<i>Z0030850</i>	<i>TEMPORARY INFORMATION SIGNING</i>	<i>SQ FT</i>	<i>127.1</i>						<i>76.4</i>	<i>50.7</i>									
* Z0033056	OPTIMIZE TRAFFIC SIGNAL SYSTEM	EACH	1							1									
Z0046304	PIPE UNDERDRAINS FOR STRUCTURES 4"	FOOT	254		254														
Z0056620	STORM SEWER (WATER MAIN REQUIREMENTS) 30 INCH	FOOT	155				155												
Z0056622	STORM SEWER (WATER MAIN REQUIREMENTS) 36 INCH	FOOT	424				424												
Z0062456	TEMPORARY PAVEMENT	SQ YD	2731	756			1975												
* Z0064800	SELECTIVE CLEARING	UNIT	10	10															
Z0066400	STABILIZED DRIVEWAYS 6"	SQ YD	50	50															
* Z0073510	TEMPORARY TRAFFIC SIGNAL TIMING	EACH	1							1									
** Z0076600	TRAINEES	HOUR	1500	1500															
** <i>Z0076604</i>	<i>TRAINEES-TRAINING PROGRAM GRADUATE</i>	<i>HOUR</i>	<i>1500</i>	<i>1500</i>															
X0200001	ROLLER COMPACTED CONCRETE BASE COURSE, 7"	SQ YD	2301	1591			710												

\* SPECIALTY ITEM  
\*\* CONSTRUCTION CODE 0042

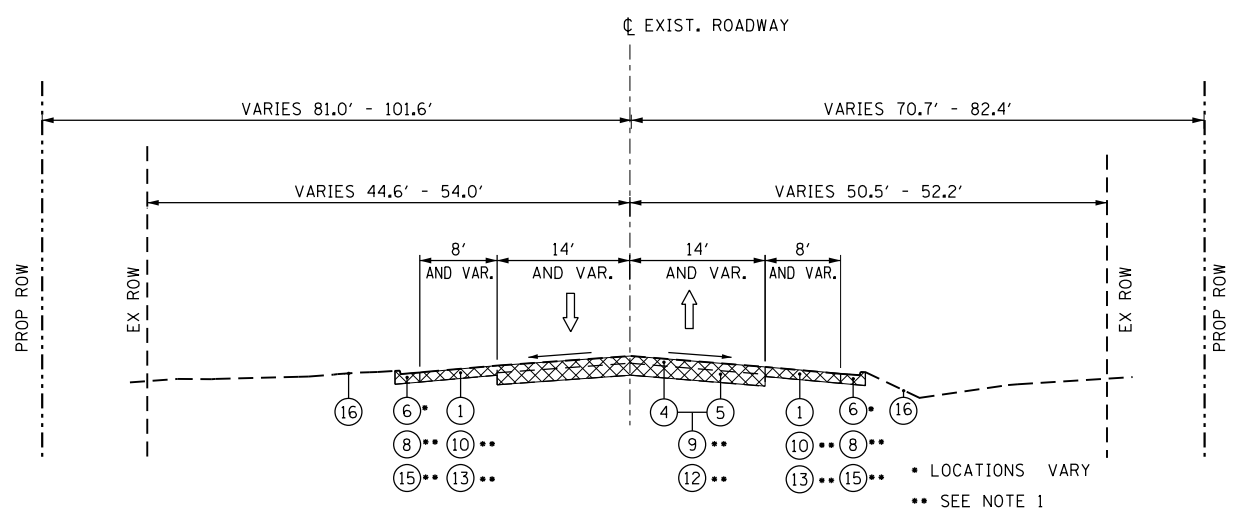
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3/18/2016



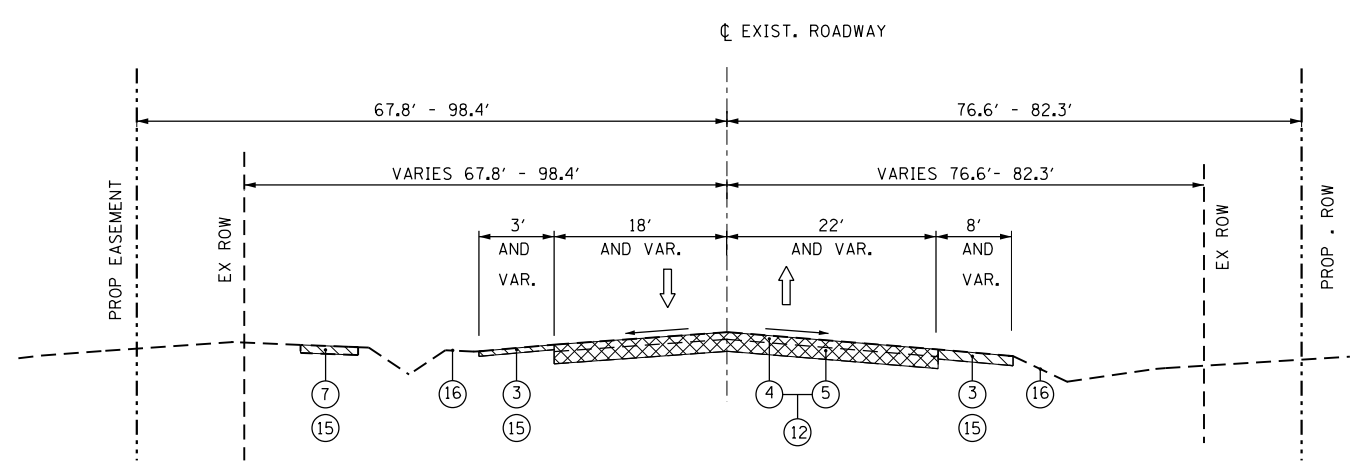
**EXISTING ROADWAY – IL. RTE 171**

STA. 74+24.39 TO STA. 77+76.40



**EXISTING ROADWAY – IL. RTE. 171**

STA. 77+76.40 TO STA. 83+87.71  
EXISTING BRIDGE OMISSION STA. 83+87.71 TO 84+43.04  
STA. 84+43.04 TO STA. 87+00.00



**EXISTING ROADWAY – IL. RTE. 171**

STA. 87+00.0 TO STA. 90+00.0

**NOTES**

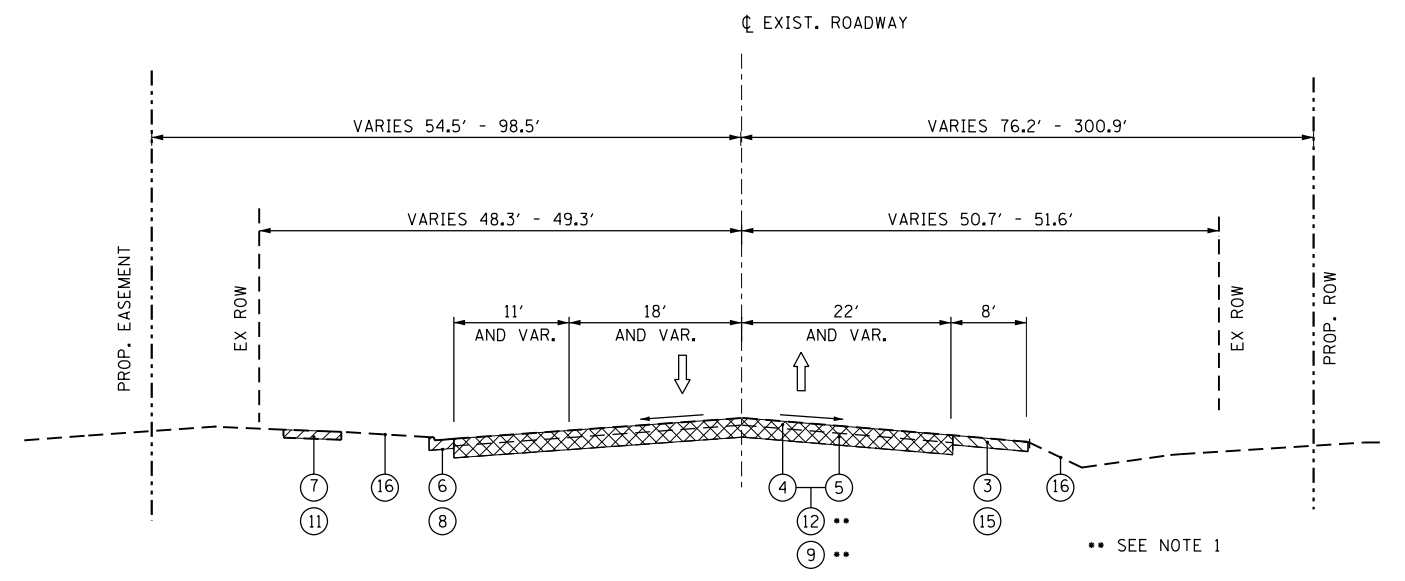
- SEE PAVEMENT REMOVAL SHEET 28 FOR LOCATIONS WHERE PAVEMENT SHALL BE EITHER (A) REMOVED OR (B) BROKE AND LEFT IN PLACE
- PAVEMENT REMOVAL FOR INSTALLATION OF TEMPORARY SHEET PILE IS NOT NOTED ON THESE TYPICAL SECTIONS BUT MAY BE REQUIRED THROUGH OUT THE LENGTH OF TEMPORARY SHEET PILE INSTALLATION. PAVEMENT REMOVAL FOR SHEET PILE SHALL BE INCLUDED IN PRICE OF SHEET PILE.
- REMOVE ALL TOP SOIL AND VEGETATION FROM ALL AREAS OF PROPOSED EMBANKMENT. ACTUAL DEPTH OF TOPSOIL HAS BEEN ASSUMED TO 12" - ACTUAL DEPTH SHALL BE DETERMINED BY RESIDENT ENGINEER. THIS WORK SHALL BE PAID FOR AS EARTH EXCAVATION.

**LEGEND**

- REMOVAL ITEMS
- (A) REMOVE OR (B) BREAK AND LEAVE IN PLACE  
SEE NOTE 1
- ABANDONED SIDEWALK OR CURB AND/OR GUTTER

**LEGEND**

- ① EXISTING BITUMINOUS SHOULDER
- ② EXISTING CONCRETE SHOULDER
- ③ EXISTING GRAVEL SHOULDER
- ④ EXISTING BITUMINOUS SURFACE OVERLAY, 4" AND VARIES (FIELD VERIFY)
- ⑤ EXISTING PCC PAVEMENT, 10"-8"-10" AND VARIES (FIELD VERIFY)
- ⑥ EXISTING COMBINATION CURB AND GUTTER
- ⑦ EXISTING CONCRETE SIDEWALK
- ⑧ CURB AND/OR GUTTER REMOVAL
- ⑨ PAVEMENT REMOVAL
- ⑩ PAVED SHOULDER REMOVAL
- ⑪ SIDEWALK REMOVAL
- ⑫ PAVEMENT BREAKING (AND LEFT IN PLACE)
- ⑬ PAVED SHOULDER BREAKING (AND LEFT IN PLACE)
- ⑭ GUARDRAIL REMOVAL
- ⑮ ABANDONED (LEFT IN PLACE)
- ⑯ TOPSOIL STRIPPING OF NOMINAL 12" TO BE PAID FOR AS EARTH EXCAVATION (SEE NOTE 3)



**EXISTING ROADWAY – IL. RTE. 171**

STA. 90+00.00 TO STA. 95+68.9

3/17/2016

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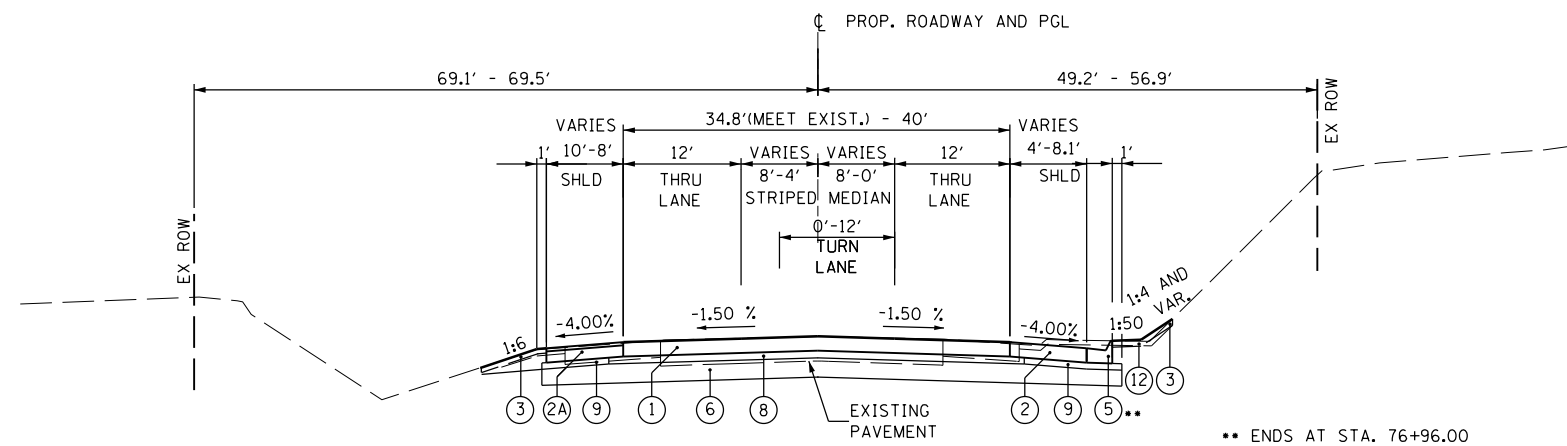
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DRAWN - PH	REVISED -
CHECKED - JMG	REVISED -
DATE - 03/18/2016	REVISED -
PLOT DATE = 03/11/2016	

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**EXISTING ROADWAY TYPICAL SECTIONS**

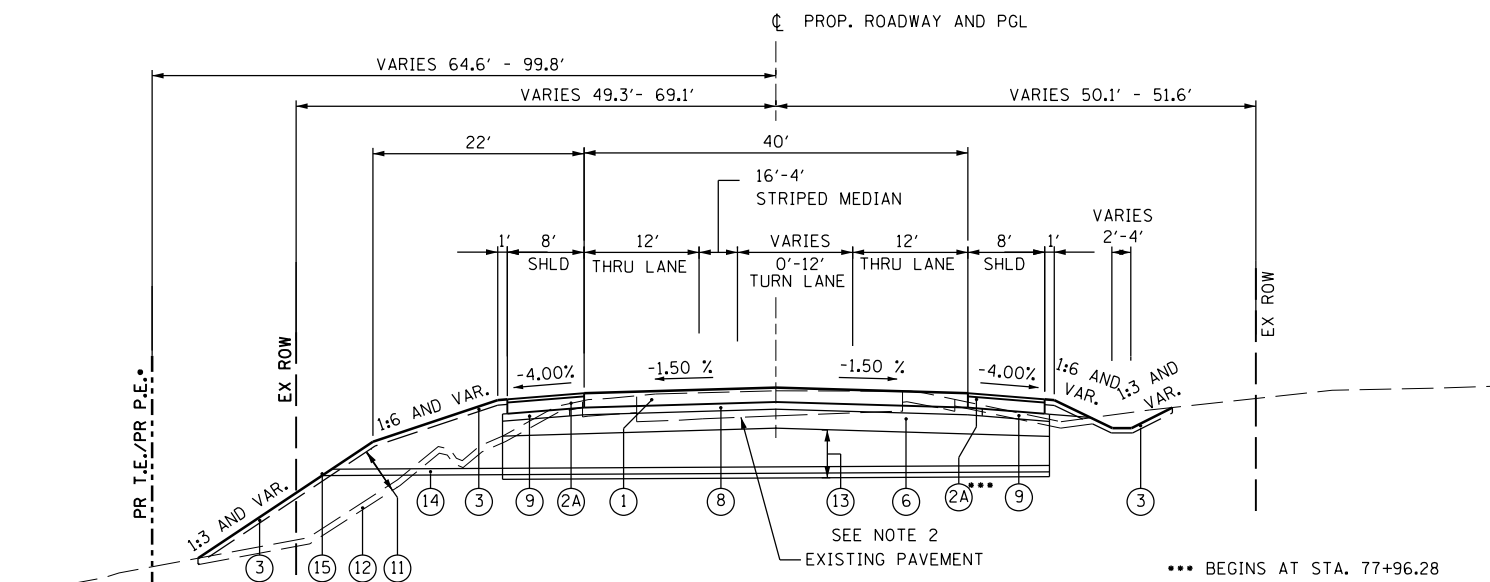
SHEET NO. 1 OF 4 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
577	C-1-B	WILL & COOK	186	20
CONTRACT NO. 60H21				
ILLINOIS FED. AID PROJECT				



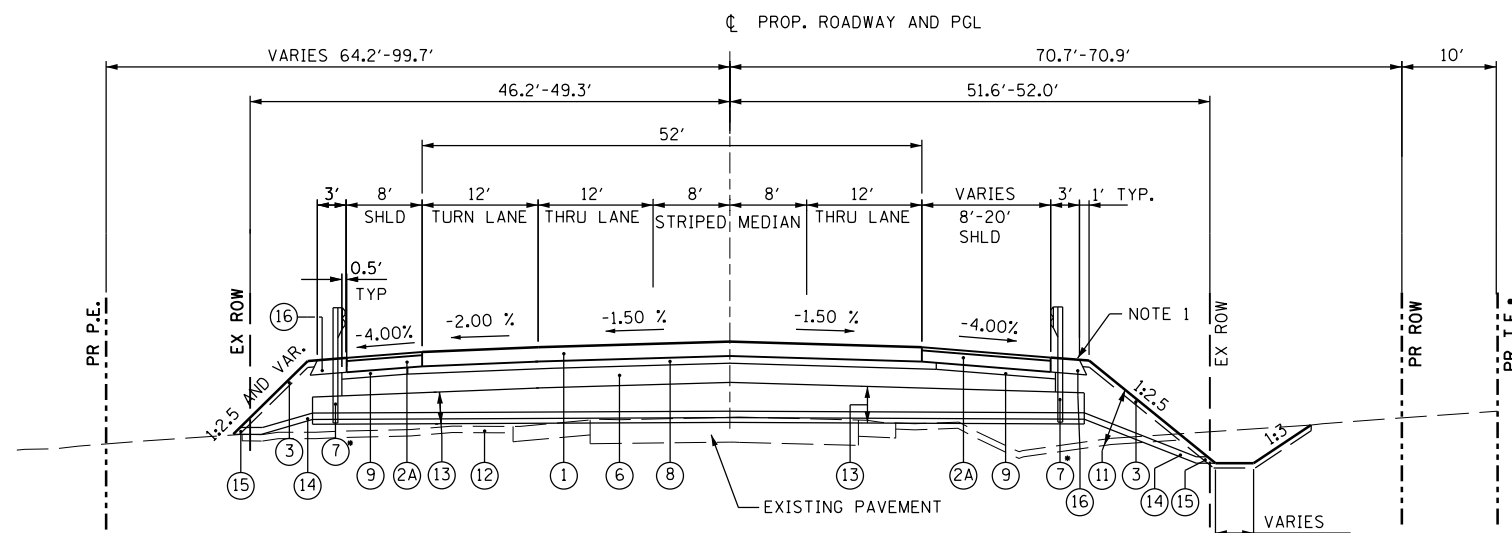
**PROPOSED TYPICAL SECTION - IL RTE 171**

STA. 74+24.39 TO STA. 76+74.24



**PROPOSED TYPICAL SECTION - IL RTE 171**

STA. 76+74.24 TO STA. 81+08.40



**PROPOSED TYPICAL SECTION - IL RTE 171**

STA. 81+08.40 TO STA. 83+28.30  
BRIDGE APPROACH PAVEMENT  
AND BRIDGE OMISSION  
STA. 83+28.30 TO STA. 86+32.53

**LEGEND**

- ① PROP. PCC PAVEMENT 9" (JOINTED)
- ② PROP. PCC SHOULDER, 9"
- ②A PROP. ROLLER COMPACTED CONCRETE BASE COURSE, 7" & PROP. HMA SURFACE COURSE, MIX "D", N70. - 2"
- ③ PROP. FURNISHING AND PLACING TOPSOIL, 4" (SEE LANDSCAPE PLANS FOR SEEDING TYPE)
- ④ PROP. COMB. CONC. CURB AND GUTTER, TYPE B-6.24
- ⑤ PROP. COMB. CONC. CURB AND GUTTER, TYPE M-6.24
- ⑥ PROP. AGGREGATE SUBGRADE, 12"
- ⑦ PROP. STEEL PLATE BEAM GUARDRAIL
- ⑧ PROP. STABILIZED SUB-BASE - HOT MIX ASPHALT 4.5"
- ⑨ PROP. SUBBASE GRANULAR MATERIAL, TYPE C
- ⑩ PROP. PCC SIDEWALK, 5"
- ⑪ FURNISHED EXCAVATION
- ⑫ TOPSOIL STRIPPING OF NOMINAL 12" TO BE PAID FOR AS EARTH EXCAVATION SEE NOTE 3 ON SHEET 20
- ⑬ PIPE UNDERDRAINS, TYPE 1, 4"
- ⑭ PIPE UNDERDRAIN (SPECIAL)
- ⑮ CONCRETE HEADWALL FOR PIPE DRAIN
- ⑯ PROP. AGGREGATE SHOULDER, TYPE B

**NOTES**

- 1. SEE TRAFFIC CONTROL PLAN FOR TEMPORARY PAVEMENT
- 2. SEE TRANSVERSE PIPE UNDERDRAIN & PIPE UNDERDRAIN (SPECIAL) SCHEDULE ON SHEET 22
- 3. FOR STRUCTURAL DESIGN TRAFFIC INFORMATION SEE SHEET 22
- 4. FOR TRANVERSE JOINTS IN ROLLER COMPACTED SHOULDER SEE SHEET 22

**HMA MIXTURE TABLE**

PAY ITEM DESCRIPTION	MIX TYPE	% AIR VOIDS @ N <sub>des</sub>	THICKNESS	OMP
TEMPORARY PAVEMENT	HMA SURFACE COURSE, MIX D, N50 (IL-9.5 mm)	4% @ 50 Gyr.	2"	QC/OA
	TEMP PAVEMENT (HMA BINDER IL-19 mm)	4% @ 50 Gyr.	8"	QC/OA
STABILIZED SUBBASE - HOT MIX ASPHALT 4 1/2"	STABILIZED SUBBASE HMA (IL-19 mm)	3% @ 50 Gyr.	4 1/2"	QCP
HMA SURFACE COURSE, MIX D, N70, 2"	HMA SURFACE COURSE, MIX "D", N70 (IL-9.5 mm)	4% @ 70 Gyr.	2"	QA/QC

OMP DESIGNATION: QUALITY CONTROL/QUALITY ASSURANCE (QC/OA); QUALITY CONTROL FOR PERFORMANCE (QCP)

QUALITY MANAGEMENT PROGRAM (OMP) IDENTIFIES THE PARTICULAR QUALITY CONTROL SPECIFICATION THAT APPLIES TO THE HMA MIXTURE.

THE UNIT WEIGHT USED TO CALCULATE ALL HMA SURFACE MIX QUANTITIES IS 112 LBS/SOYD/IN. THE AC TYPE FOR POLYMERIZED HMA MIXTURES SHALL BE "SBS/SBR PG 76-22" AND FOR NON-POLYMERIZED HMA THE "AC TYPE" SHALL BE "PG 64-22" UNLESS MODIFIED BY DISTRICT ONE SPECIAL PROVISIONS.

FOR USE OF RECYCLE MATERIALS SEE DISTRICT ONE SPECIAL PROVISIONS.

PC CONCRETE TEMPORARY PAVEMENT SHALL CONSIST OF CLASS PV CONCRETE MEETING THE REQUIREMENTS OF ART. 1020 OF THE STANDARD SPECIFICATIONS; TEMPORARY PCC PAVEMENT DOES NOT REQUIRE DOWEL BARS.

TEMPORARY PCC PAVEMENT USE IS OPTIONAL AND IF USED SHALL CONSIST OF 8" TEMPORARY PCC PAVEMENT 4" SUBBASE GRANULAR MATERIAL TYPE B (CA-6) IF HMA OPTION IS USED PROVIDE 4" SUBBASE GRANULAR MATERIAL (CA-6)

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DATE - 03/24/2016	REVISED -

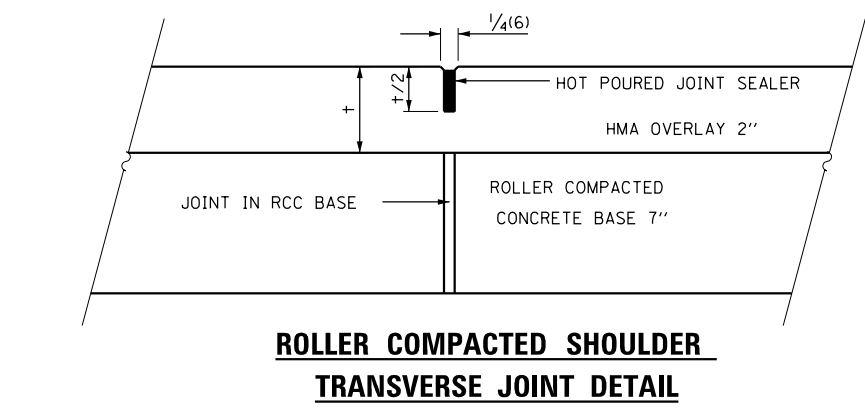
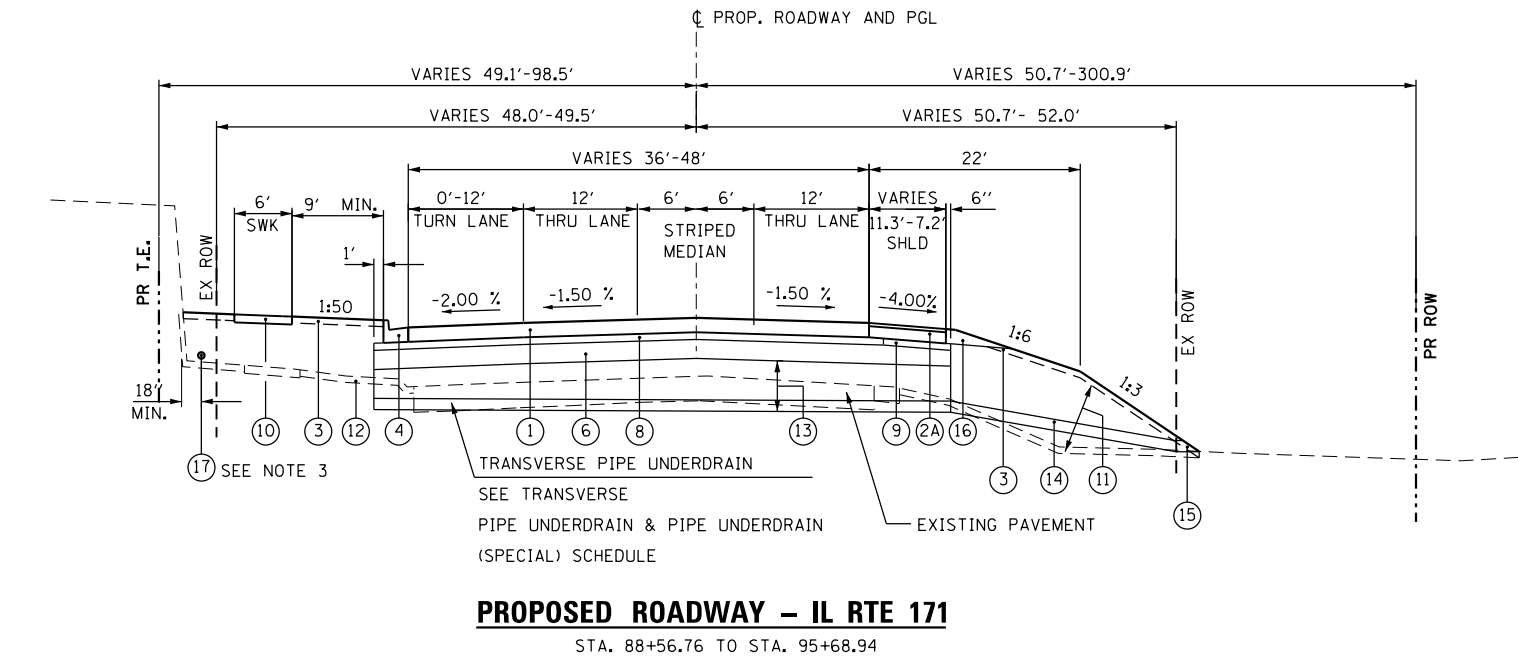
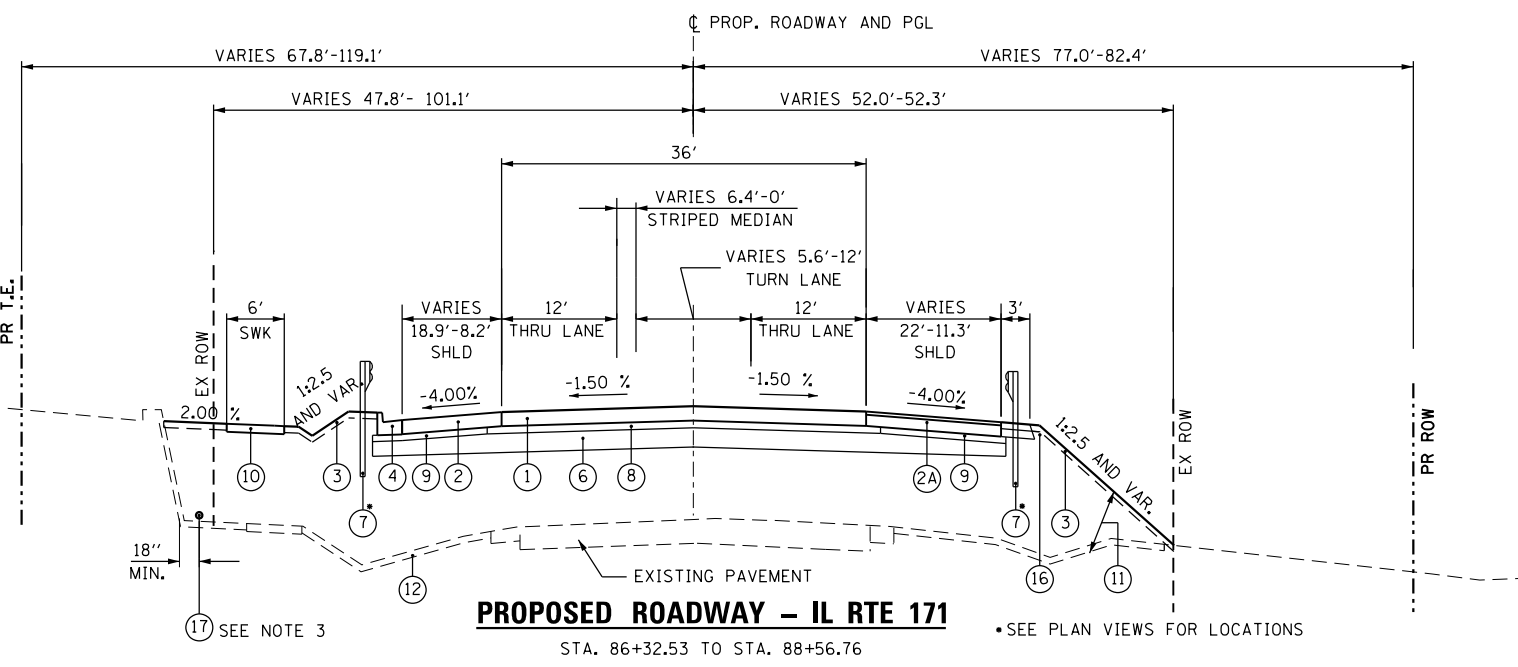
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

PROPOSED ROADWAY TYPICAL SECTIONS

SHEET NO. 2 OF 4 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
577	C-1-B	WILL & COOK	186	21
CONTRACT NO. 60H21				

ILLINOIS FED. AID PROJECT



**TRANSVERSE PIPE UNDERDRAIN & PIPE UNDERDRAIN (SPECIAL) SCHEDULE**

STATION	PIPE UNDERDRAIN, TYPE 1, 4"				PIPE UNDERDRAIN (SPECIAL)			
	UPSTREAM		DOWNSTREAM		UPSTREAM		DOWNSTREAM	
	OFFSET	ELEVATION	OFFSET	ELEVATION	OFFSET	ELEVATION	OFFSET	ELEVATION
78+00.00	29.0' RT	654.47	29.0' LT	653.31	29.0' LT	653.31	57.2' LT	649.0
81+50.00	0	649.14	29.0' RT	648.52	29.0' RT	648.52	47.0' RT	647.1
81+50.00	0	649.98	65.5' LT	646.64	CONNECT UNDERDRAIN INTO INLET.			
89+00.00	28.2' LT	646.62	28.2' RT	645.49	28.2' RT	645.49	54.1' RT	641.5
93+00.00	34.1' LT	647.66	27.0' RT	646.44	27.0' RT	646.44	50.3' RT	643.8

**LEGEND**

- ① PROP. PCC PAVEMENT 9" (JOINTED)
- ② PROP. PCC SHOULDER, 9"
- ②A PROP. ROLLER COMPACTED CONCRETE BASE COURSE, 7" & PROP. HMA SURFACE COURSE, MIX "D", N70. - 2" SEE NOTE 2
- ③ PROP. FURNISHING AND PLACING TOPSOIL, 4" (SEE LANDSCAPE PLANS FOR SEEDING TYPE)
- ④ PROP. COMB. CONC. CURB AND GUTTER, TYPE B-6.24
- ⑤ PROP. COMB. CONC. CURB AND GUTTER, TYPE M-6.24
- ⑥ PROP. AGGREGATE SUBGRADE, 12"
- ⑦ PROP. STEEL PLATE BEAM GUARDRAIL
- ⑧ PROP. STABILIZED SUB-BASE - HOT MIX ASPHALT 4.5"
- ⑨ PROP. SUBBASE GRANULAR MATERIAL, TYPE C
- ⑩ PROP. PCC SIDEWALK, 5"
- ⑪ FURNISHED EXCAVATION
- ⑫ TOPSOIL STRIPPING OF NOMINAL 12" TO BE PAID FOR AS EARTH EXCAVATION SEE NOTE 3 ON SHEET 20
- ⑬ PIPE UNDERDRAINS, TYPE 1, 4"
- ⑭ PIPE UNDERDRAINS 4" (SPECIAL)
- ⑮ CONCRETE HEADWALL FOR PIPE DRAINS
- ⑯ PROP. AGGREGATE SHOULDER, TYPE B
- ⑰ PIPE UNDERDRAINS 4" (SPECIAL)

**NOTES:**

1. SLOPES SHALL BE BENCHED ACCORDING TO DISTRICT 1 BENCHING DETAIL BD51 WHEN THE SLOPE IS STEEPER THAN 4:1 AND THE HEIGHT IS GREATER THAN 5 FEET. FROM APPROXIMATELY STA. 77+00 LT TO STA. 80+50 LT AND FROM STA. 92+50 LT TO STA. 94+00 RT
2. FOR TRANSVERSE JOINTS IN ROLLER COMPACTED CONCRETE SHOULDERS SEE DETAIL ON THIS SHEET.
3. FOR WALL PIPE UNDERDRAINS 4" (SPECIAL) NEXT TO THE RETAINING WALL BY THE SHOPPING MALL SEE SHEET 57 FOR LAYOUT.

STRUCTURAL DESIGN TRAFFIC: 1200	YEAR 2033	
PV= 17,730	SU= 896	MU= 374
ROAD / STREET CLASSIFICATION: CLASS I		
PERCENT OF STRUCTURAL DESIGN TRAFFIC IN DESIGN LANE:		
P= 50%	S= 50%	M= 50%
TRAFFIC FACTOR: ACTUAL TF= 2.76	AC TYPE=	
	MINIMUM TF= 4.59	
AC GRADE:		
BINDER=	SURFACE=	
SUBGRADE SUPPORT RATING:		
SSR= POOR	(STA. TO )	
SSR=	(STA. TO )	

3/17/2016

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PLOT DATE = 03/11/2016

REVISED -  
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DATE - 03/18/2016

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STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

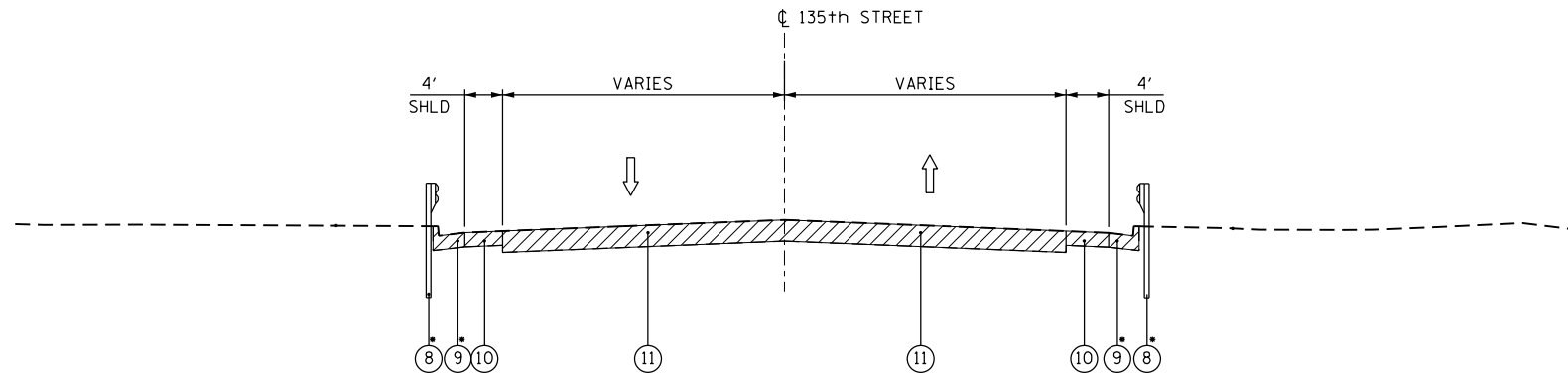
PROPOSED ROADWAY TYPICAL SECTIONS

SHEET NO. 3 OF 4 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
577	C-1-B	WILL & COOK	186	22

CONTRACT NO. 60H21

ILLINOIS FED. AID PROJECT



**EXISTING ROADWAY – 135th STREET**

STA. 153+32.62 TO STA. 153+91.07

•SEE PLAN VIEWS FOR LOCATIONS

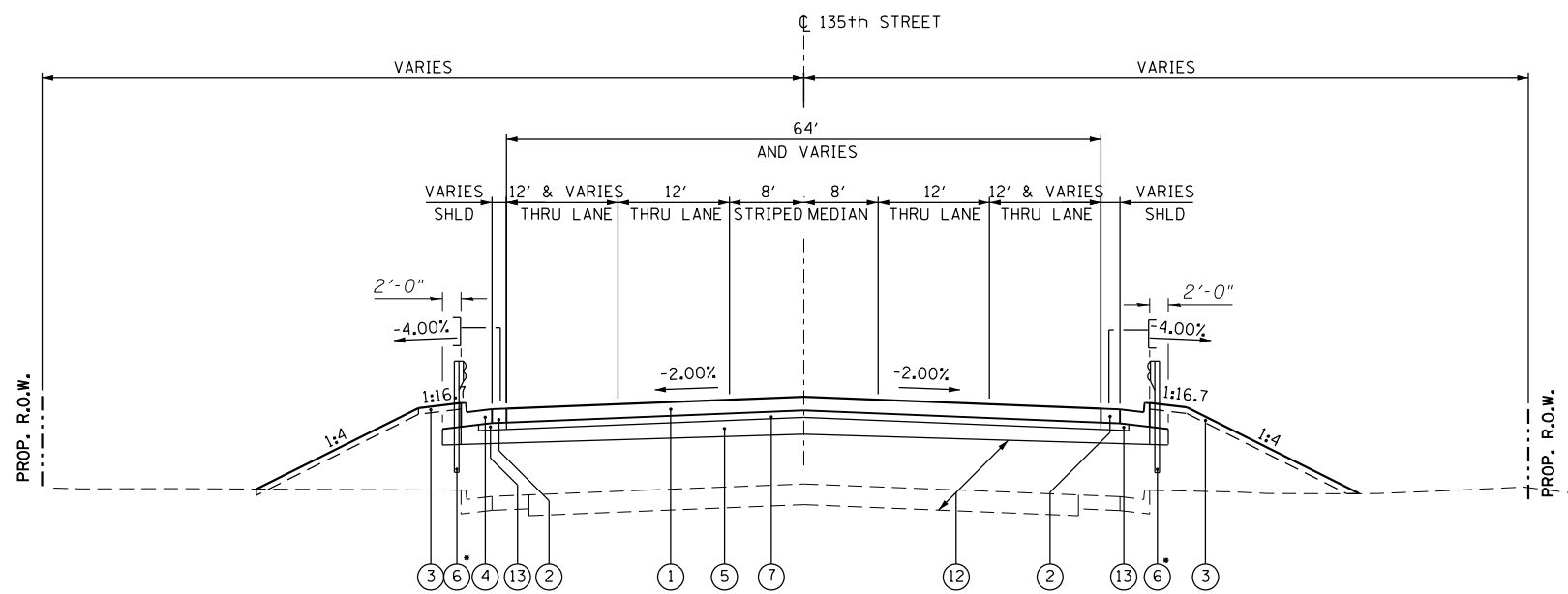
**LEGEND**

- ① PROP. PCC PAVEMENT 9" (JOINTED)
- ② PROP. PCC SHOULDERS, 9"
- ③ PROP. FURNISHING AND PLACING TOPSOIL, 4" (SEE LANDSCAPE PLAN FOR SEEDING TYPE)
- ④ PROP. COMB. CONC. CURB AND GUTTER, TYPE B-6.24
- ⑤ PROP. AGGREGATE SUBGRADE, 12"
- ⑥ PROP. STEEL PLATE BEAM GUARDRAIL
- ⑦ PROP. STABILIZED SUB-BASE, 4½"
- ⑧ GUARDRAIL REMOVAL
- ⑨ CURB AND/OR GUTTER REMOVAL
- ⑩ PAVED SHOULDER REMOVAL
- ⑪ PAVEMENT REMOVAL
- ⑫ FURNISHED EXCAVATION
- ⑬ PROP. SUB-BASE GRANULAR MATERIAL, TYPE C

**LEGEND**



PAVEMENT REMOVAL



**PROPOSED ROADWAY – 135TH STREET**

STA. 153+32.62 TO STA. 153+91.07

BRIDGE APPROACH PAVEMENT OMISSION

STA. 153+02.62 TO STA. 153+32.62

• SEE PLAN VIEWS FOR LOCATIONS

3/17/2016

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DRAWN - PH	REVISED -
CHECKED - JMG	REVISED -
PLOT DATE = 03/11/2016	DATE - 03/18/2016

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

EXISTING AND PROPOSED ROADWAY 135th TYPICAL SECTIONS

SHEET NO. 4 OF 4 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
577	C-1-B	WILL & COOK	186	23
CONTRACT NO. 60H21				
ILLINOIS FED. AID PROJECT				

EARTHWORK SCHEDULE (WILL COUNTY)					
LOCATION	EARTH EXCAVATION	EARTHWORK EXCAVATION ADJUSTED FOR SHRINKAGE (1)	EMBANKMENT	TOPSOIL STRIPPING	EARTHWORK BALANCE WASTE (+) OR SHORTAGE (-)
STATION	CUBIC YARD	CUBIC YARD	CUBIC YARD	CUBIC YARD	CUBIC YARD
IL 171 (ARCHER)					
STA. 74+24.39 TO STA. 74+50	109.97	93.47	16.39	19.03	77.08
STA. 74+50 TO STA. 75+00	210.58	178.99	31.36	31.25	147.63
STA. 75+00 TO STA. 75+45.53	197.95	168.26	28.02	26.90	140.24
STA. 75+45.53 TO STA. 75+50	20.14	17.12	2.22	2.56	14.90
STA. 75+50 TO STA. 76+00	219.68	186.73	33.81	39.15	152.92
STA. 76+00 TO STA. 76+22.50	95.69	81.34	12.67	16.99	68.67
STA. 76+22.50 TO STA. 76+50	106.64	90.64	16.37	27.29	74.27
STA. 76+50 TO STA. 77+00	200.01	170.01	35.26	69.89	134.75
STA. 77+00 TO STA. 77+50	198.85	169.02	109.40	89.39	59.62
STA. 77+50 TO STA. 77+81.42	123.70	105.15	111.78	58.64	-6.64
STA. 77+81.42 TO STA. 78+00	76.02	64.62	33.14	19.70	31.48
STA. 78+00 TO STA. 78+50	142.15	120.83	95.30	59.89	25.53
STA. 78+50 TO STA. 79+00	100.82	85.70	178.42	90.58	-92.72
STA. 79+00 TO STA. 79+16.70	36.91	31.37	54.04	24.38	-22.67
STA. 79+16.70 TO STA. 79+50	64.85	55.12	94.48	44.15	-39.36
STA. 79+50 TO STA. 80+00	68.98	58.63	176.48	89.81	-117.85
STA. 80+00 TO STA. 80+35.02	32.29	27.45	151.74	66.74	-124.29
STA. 80+35.02 TO STA. 80+50	5.48	4.66	108.55	40.17	-103.89
STA. 80+50 TO STA. 81+00	1.06	0.90	307.39	113.99	-306.49
STA. 81+00 TO STA. 81+08.40	0.00	0.00	20.98	8.58	-20.98
STA. 81+08.40 TO STA. 81+50	8.34	7.09	255.71	80.67	-248.62
STA. 81+50 TO STA. 82+00	24.55	20.87	500.63	135.91	-479.76
STA. 82+00 TO STA. 82+36.72	12.04	10.23	420.19	83.65	-409.96
STA. 82+36.72 TO STA. 82+50	0.96	0.82	165.97	22.43	-165.15
STA. 82+50 TO STA. 83+00	14.39	12.23	748.70	105.29	-736.47
STA. 83+00 TO STA. 83+39.51	11.05	9.39	843.43	127.22	-834.04
STA. 83+39.51 TO STA. 83+58.30	17.06	14.50	286.92	54.14	-272.42
STA. 83+58.30 TO STA. 83+87.39	370.16	314.64	76.06	32.35	238.58
STA. 83+87.39 TO STA. 84+00	163.76	139.20	0.03	0.00	139.17
STA. 84+00 TO STA. 84+43.05	479.87	407.89	0.09	0.00	407.80
STA. 84+43.05 TO STA. 84+50	132.92	112.98	0.36	0.83	112.62
STA. 84+50 TO STA. 85+00	880.00	748.00	2.59	5.97	745.41
STA. 85+00 TO STA. 85+50	867.43	737.32	0.00	0.00	737.32
STA. 85+50 TO STA. 86+02.53	477.24	405.65	95.63	78.38	310.02
STA. 86+02.53 TO STA. 86+21.32	7.88	6.70	322.62	60.62	-315.92
STA. 86+21.32 TO STA. 86+50	12.30	10.46	863.01	82.03	-852.56
STA. 86+50 TO STA. 87+00	32.30	27.46	1351.13	135.42	-1323.68
STA. 87+00 TO STA. 87+50	32.14	27.32	1178.90	142.30	-1151.58
STA. 87+50 TO STA. 88+00	23.27	19.78	1047.46	120.88	-1027.68
TOTAL	5579	4743	9777	2209	-5035
135TH STREET					
STA. 153+02.62 TO STA. 153+32.62	0.73	0.62	43.63	13.80	-43.01
STA. 153+32.62 TO STA. 153+50	0.00	0.00	37.59	14.25	-37.59
TOTAL	1	1	81	28	-81

(1) 15% SHRINKAGE FACTOR

EARTHWORK SCHEDULE (COOK COUNTY)					
LOCATION	EARTH EXCAVATION	EARTHWORK EXCAVATION ADJUSTED FOR SHRINKAGE (1)	EMBANKMENT	TOPSOIL STRIPPING	EARTHWORK BALANCE WASTE (+) OR SHORTAGE (-)
STATION	CUBIC YARD	CUBIC YARD	CUBIC YARD	CUBIC YARD	CUBIC YARD
IL 171 (ARCHER)					
STA. 88+00 TO STA. 88+50	25.88	22.00	904.47	112.37	-882.47
STA. 88+50 TO STA. 89+00	26.60	22.61	782.00	103.50	-759.39
STA. 89+00 TO STA. 89+50	29.28	24.89	679.39	97.62	-654.50
STA. 89+50 TO STA. 89+89.21	33.78	28.71	480.38	57.95	-451.67
STA. 89+89.21 TO STA. 90+00	13.47	11.45	124.56	10.61	-113.11
STA. 90+00 TO STA. 90+23.40	34.25	29.11	269.03	23.27	-239.92
STA. 90+23.40 TO STA. 90+50	38.45	32.68	304.53	40.94	-271.85
STA. 90+50 TO STA. 91+00	46.81	39.79	507.74	93.14	-467.95
STA. 91+00 TO STA. 91+50	15.17	12.89	436.51	87.37	-423.62
STA. 91+50 TO STA. 92+00	5.84	4.96	371.84	91.53	-366.88
STA. 92+00 TO STA. 92+50	5.45	4.63	294.04	91.16	-289.41
STA. 92+50 TO STA. 93+00	25.10	22.19	234.57	89.49	-212.39
STA. 93+00 TO STA. 93+50	75.74	64.38	152.72	71.71	-88.34
STA. 93+50 TO STA. 93+81.37	74.26	63.12	66.90	32.71	-3.78
STA. 93+81.37 TO STA. 94+00	57.44	48.82	31.94	17.66	16.88
STA. 94+00 TO STA. 94+50	157.92	134.23	32.29	36.14	101.94
STA. 94+50 TO STA. 95+00	175.98	149.58	17.49	30.67	132.09
STA. 95+00 TO STA. 95+50	220.04	187.03	18.36	28.25	168.67
STA. 95+50 TO STA. 95+68.94	85.67	72.82	5.01	10.72	67.81
TOTAL	1148	976	5714	1127	-4738
COMPENSATORY STORAGE					
STA. 91+00 TO STA. 91+50	26.76	22.75	18.78	11.47	3.97
STA. 91+50 TO STA. 92+00	12.59	10.70	40.50	23.93	-29.80
STA. 92+00 TO STA. 92+50	68.19	57.96	49.41	26.89	8.55
STA. 92+50 TO STA. 93+00	151.31	128.61	53.30	28.21	75.31
STA. 93+00 TO STA. 93+50	178.03	151.33	52.56	28.27	98.77
STA. 93+50 TO STA. 94+00	288.18	244.95	86.91	42.81	158.04
STA. 94+00 TO STA. 94+50	517.57	439.93	132.59	67.29	307.34
STA. 94+50 TO STA. 95+00	699.58	594.64	103.59	54.44	491.05
TOTAL	1942	1651	538	283	1113

(1) 15% SHRINKAGE FACTOR

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**PARSONS BRINCKERHOFF**  
230 West Monroe St., Suite 900  
Chicago, IL 60606, (312) 782-8150

USER NAME = clemensc	DESIGNED - CJC	REVISED -
PLOT SCALE =	DRAWN - CJC	REVISED -
PLOT DATE = 17-MAR-2016	CHECKED - RFT	REVISED -
	DATE - 3/18/2016	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

EARTHWORK SCHEDULE OF QUANTITIES

SCALE: SHEET NO. 1 OF 3 SHEETS STA. TO STA.

F.A.P. RTE. 577	SECTION C-1-B	COUNTY WILL/COOK	TOTAL SHEETS 186	SHEET NO. 24
CONTRACT NO. 60H21			ILLINOIS FED. AID PROJECT	



SCHEDULE OF DRAINAGE STRUCTURES

STRUCTURE NUMBER	LOCATION	STATION	OFFSET	RIM ELEVATION	INLET TA T24F&G	INLET TB T24F&G	CES 15", 1:4	CES 24", 1:3	CES 30", 1:3	CES 24", 1:3 @ 20° SKEW	CES 30", 1:2 @ 30° SKEW	CES 36", 1:2 @ 30° SKEW	TRAVERSABLE PIPE GRATE	CB TA 4 DIA T23F&G	CB TA 4 DIA T24F&G	CB TC T23F&G	MH TA 4 DIA T1F CL	MH TA 4 DIA T8G	PIPE TEE	INVERT ELEVATIONS	
1	IL 171	75+25.00	43.61 LT					1													664.53
2	IL 171	75+95.00	42.35 LT	661.15															1		657.18SW, 657.07NE
3	IL 171	76+80.00	34.45 LT	659.32															1		655.32SW, 655.24NE
4	IL 171	77+42.56	56.86 LT							1											651.79
5	IL 171	77+60.00	37.66 RT	657.18															1		650.18NE
6	IL 171	78+75.00	41.94 RT	653.04															1		648.52SW, 646.86NE
7	IL 171	79+75.00	41.94 RT	651.00															1		646.00SW, 645.36NE
8	IL 171	82+10.00	56.56 RT					1													645.96
9	IL 171	82+45.00	39.50 RT	650.56														1			644.08SW, 644.06NE
10	IL 171	82+60.00	60.25 RT					1													644.34
11	IL 171	83+00.00	61.20 RT								1										643.77
12	IL 171	86+11.90	64.36 LT									1									640.00
13	IL 171	87+03.20	42.24 LT	651.67														1			640.19SW, 640.21NE
14	IL 171	89+46.90	34.30 RT	649.40												1					642.10SW, 642.18NE
15	IL 171	90+60.76	36.21 LT	649.75											1						642.90SW, 642.98NE
16	IL 171	93+38.58	38.14 LT	651.35										1							645.20SW, 645.60NE
17	IL 171	94+21.37	38.07 LT	652.00										1							646.38SW, 646.50NE
18	IL 171	95+00.00	42.17 LT					1					11.33								649.33
19	135th Street	153+37.33	38.75 RT	650.48		1															646.23
20	135th Street	153+37.33	38.28 LT	650.49		1															644.75SW, 640.49NE, 646.64SE
21	135th Street	153+22.09	67.58 LT					1													639.64
22	IL 171	89+75.70	92.60 LT	648.46										1							644.37NE, 643.87SE
23	IL 171	90+34.91	92.41 LT	648.66												1					644.66
24	IL 171	Existing	Existing (L,T)	648.99																	641.77NE, 641.77SE
25	IL 171	Existing	Existing (L,T)	649.19																	Unknown
26	IL 171	94+55.99	32.5 LT	651.86	1																648.11
27	IL 171	88+60.00	28.07 LT	649.43		1															642.13
28	IL 171	Existing	Existing (L,T)	646.99																	Unknown
29	IL 171	Existing	Existing (L,T)	647.05																	Unknown
30	IL 171	94+55.78	41.09 (L,T)																	1	
31	IL 171	88+60.30	37.12 (L,T)																	1	
								TOTALS	1	3	1	1	1	11.33	3	2	1	2	5	2	

SCHEDULE OF DRAINAGE PIPE

PIPE NO.	FROM STR. NO.	TO STR. NO.	LENGTH (FEET)	DIAMETER (INCHES)	SLOPE (%)	PC CL D 3, 24	SS CL A 2, 15	SS CL A 2, 12	SS (W/MR), 30	SS CL A 3, 36	SS (W/MR), 36	SS CL B 3, 18	SS CL B 3, 21	SS CL B 3, 30	SS CL B 3, 36
1	1	2	68.0	24	10.85%	68.0									
2	2	3	81.4	24	2.15%	81.4									
3	3	4	64.5	24	5.35%	64.5									
4	5	6	111.0	18	1.50%							111.0			
5	6	7	96.0	21	0.90%								96.0		
6	7	9	266.0	30	0.50%									266.0	
7	8	10	50.1	24	3.23%	50.1									
8	9	11	57.1	30	0.50%									57.1	
9	13	12	42.9	36	0.44%										42.9
10	14	13	286.6	36	0.66%					246.6	40.0				
11	15	14	109.9	36	0.66%						109.9				
12	16	15	273.8	36	0.81%						273.8				
13	17	16	59.4	30	1.31%				59.4						
14	18	17	96.0	30	2.95%				96.0						
15	19	20	74.0	15	2.00%		74.0								
16	20	21	31.5	15	2.74%		31.5								
17	23	22	56.2	12	0.52%			56.2							
18	22	24	26.3	12	2.00%			26.3							
19	26	30	6.4	12	1.00%			6.4							
20	27	31	6.1	15	1.00%			6.1							
			TOTALS			264.0	111.6	88.9	155.4	246.6	423.7	111.0	96.0	323.1	42.9

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**PARSONS BRINCKERHOFF**  
230 West Monroe St., Suite 900  
Chicago, IL 60606, (312) 782-8150

USER NAME = clemensc  
PLOT SCALE =  
PLOT DATE = 17-MAR-2016

DESIGNED - CJC  
DRAWN - CJC  
CHECKED - RFT  
DATE - 3/18/2016

REVISED -  
REVISED -  
REVISED -  
REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

DRAINAGE SCHEDULE OF QUANTITIES

SCALE: SHEET NO. 2 OF 3 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
577	C-1-B	WILL/COOK	186	25
CONTRACT NO. 60H21			ILLINOIS FED. AID PROJECT	

LOCATION	TREE REMOVAL SCHEDULE			
	WILL COUNTY	COOK COUNTY	WILL COUNTY	COOK COUNTY
	DIAMETER	DIAMETER	DIAMETER	DIAMETER
	6" TO 15"	6" TO 15"	GREATER THAN 15"	GREATER THAN 15"
Sta. 79+62.0 (29.4' RT)	10			
Sta. 79+97.9 (28.2' RT)	12			
Sta. 83+45.0 (51.8' RT)			49	
Sta. 83+58.9 (62.1' RT)	15			
Sta. 83+58.9 (64.4' RT)	12			
Sta. 83+75.0 (51.9' RT)	10			
Sta. 83+95.0 (50.1' RT)			28	
Sta. 84+47.3 (54.0' RT)	8			
Sta. 84+47.3 (54.0' RT)	8			
Sta. 84+47.3 (54.0' RT)	9			
Sta. 84+47.3 (54.0' RT)	6			
Sta. 84+47.3 (54.0' RT)	8			
Sta. 84+47.3 (54.0' RT)	6			
Sta. 84+57.5 (48.6' RT)	12			
Sta. 84+57.5 (48.6' RT)	12			
Sta. 84+57.5 (48.6' RT)	12			
Sta. 84+70.0 (50.9' RT)	10			
Sta. 84+88.2 (49.1' RT)	10			
Sta. 84+97.6 (49.0' RT)	6			
Sta. 85+07.7 (50.4' RT)			16	
Sta. 85+11.2 (61.5' RT)	15			
Sta. 85+23.8 (48.9' RT)	15			
Sta. 85+49.6 (48.5' RT)	10			
Sta. 85+81.9 (53.7' RT)	8			
Sta. 85+81.9 (66.5' RT)	9			
Sta. 86+04.6 (47.9' RT)	6			
Sta. 86+46.2 (47.5' RT)			16	
Sta. 86+65.2 (54.9' RT)			16	
Sta. 86+78.3 (62.3' RT)	12			
Sta. 86+89.0 (64.2' RT)	12			
Sta. 77+39.7 (44.1' LT)	12			
Sta. 77+51.5 (41.5' LT)	10			
Sta. 77+58.0 (41.1' LT)	12			
Sta. 88+15.0 (49.3' LT)		10		
Sta. 88+38.2 (48.8' LT)		10		
Sta. 89+58.1 (57.4' LT)		12		
Sta. 90+52.9 (52.8' LT)		12		
Sta. 92+32.8 (47.8' LT)		9		
Sta. 92+47.2 (51.8' LT)		6		
TOTAL	287	59	125	

GUARDRAIL REMOVAL SCHEDULE					
STAGE	STATION	STATION	LEFT	RIGHT	LENGTH (FT)
Stage 1	82+84.10	83+85.90		Right	101.86
Stage 1	84+43.34	86+07.25		Right	163.92
Stage 2	84+44.00	85+63.00	Left		125.13
Stage 2	82+85.25	83+86.77	Left		101.83
Stage 2	81+44.09	81+63.35	Left		80.75
Stage 2	80+04.45	80+72.92	Left		116.46
TOTAL					690.0

REMOVAL AND REERECT STEEL PLATE BEAM GUARDRAIL, TYPE A SCHEDULE					
STAGE	STATION	STATION	LEFT	RIGHT	LENGTH (FT)
Prestage 1	84+44.00	85+63.00	Left		125.13
Prestage 1	82+85.25	83+86.77	Left		101.83
Prestage 1	80+04.44	80+35.57	Left		32.2
Prestage 1	81+51.41	81+63.35	Left		17.00
TOTAL					277.0

SEE NOTE 3

SIGN REMOVAL SCHEDULE						
SIGN TEXT	STATION	SUPPORT TYPE	WIDTH (INCHES)	HEIGHT (INCHES)	REMOVE SIGN PANEL-TYPE 1 (SQ FT)	REMOVE GROUND MOUNTED SIGN SUPPORT (EACH)
TWO-WAY TRAFFIC	75+30R	WOOD POST	36	36	9	1
DIVIDED HIGHWAY	75+86L	WOOD POST	36	36	9	1
NO PARKING	79+54R	TELESCOPING SUPPORT	24	30	5	1
NO PARKING	79+54L	TELESCOPING SUPPORT	24	30	5	1
STOP	135TH ST	TELESCOPING SUPPORT	36	36	9	1
SIDE ROAD	81+48R	TELESCOPING SUPPORT	36	36	9	1
135TH ST	81+48R		36	9	2.25	
NO PARKING	81+48R		12	18	1.5	
NO PARKING	82+94L	TELESCOPING SUPPORT	24	30	5	1
WILL COUNTY	85+30L	TELESCOPING SUPPORT	30	18	3.75	1
CALL 911	85+30L		30	24	5	
COOK COUNTY	85+66R	TELESCOPING SUPPORT	30	24	5	1
SIDE ROAD	88+97L	TELESCOPING SUPPORT	36	36	9	1
135TH ST	88+97L		36	9	2.25	
NO TRUCKS	90+10L	METAL POST	24	24	4	1
RIGHT TURN ONLY	92+21L	TELESCOPING SUPPORT	18	24	3	1
SPEED LIMIT 45	92+34R	TELESCOPING SUPPORT	24	30	5	1
DO NOT ENTER	93+43L	METAL POST	30	30	6.25	1
RIGHT TURN ONLY	93+43L		24	30	5	
STOP	ENTRANCE	METAL POST	30	30	6.25	1
NO TRUCKS	93+85L	METAL POST	24	24	4	1
RIGHT TURN ONLY	95+47L	TELESCOPING SUPPORT	24	30	5	1
TOTAL					118	17

BRIDGE APPROACH SHOULDER REMOVAL SCHEDULE					
LOCATION	STATION	STATION	LENGTH (FT)	WIDTH (FT)	AREA (SQ YD)
IL 171 - Southeast Approach Shoulder	83+52.12	83+87.39	35.27	8.73	34
IL 171 - Southwest Approach Shoulder	83+52.13	83+87.40	35.27	10.06	39
IL 171 - Northeast Approach Shoulder	84+43.01	84+93.01	50	7.9	44
IL 171 - Northwest Approach Shoulder	84+43.01	84+93.01	50	7.91	44
TOTAL					162

BRIDGE APPROACH SLAB REMOVAL SCHEDULE						
LOCATION	STATION	STATION	LENGTH (FT)	WIDTH (FT)	AREA (SQ YD)	NOTES
IL 171 - South Approach Slab	83+52.12	83+87.39	35.27	23.77	93	1, 2
IL 171 - North Approach Slab	84+43.01	84+93.01	50	24.8	138	1
IL 135th- West Approach Slab	153+02.62	153+32.62	30	71.28	238	
TOTAL					469	

NOTES:

- LENGTH OF EXISTING APPROACH PAVEMENT 50-FT FROM HISTORICAL DRAWING, TO BE VERIFIED IN FIELD.
- A PORTION OF IL 171-SOUTH APPROACH SLAB CAN BE ABANDONED. SEE SHEET "PAVEMENT AND SHOULDER REMOVAL PLAN" FOR DETAILS.
- CONTRACTOR SHALL REMOVE AND REINSTALL GUARDRAIL AS REQUIRED TO INSTALL TEMPORARY PAVEMENT.

3/17/2016

**HBM**  
ENGINEERING GROUP, LLC  
CONSULTING & DESIGN  
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4415 WEST HARRISON ST.  
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DESIGNED - PH  
DRAWN - PH  
CHECKED - JMG  
DATE - 03/18/2016

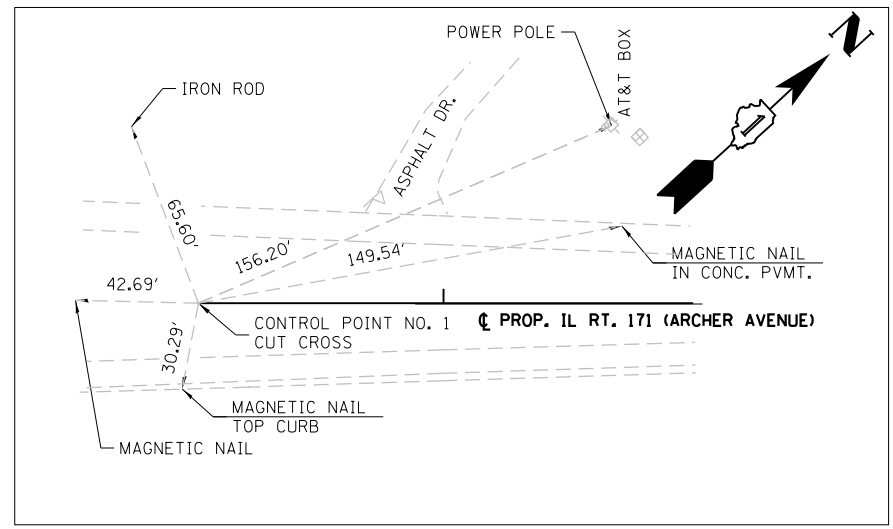
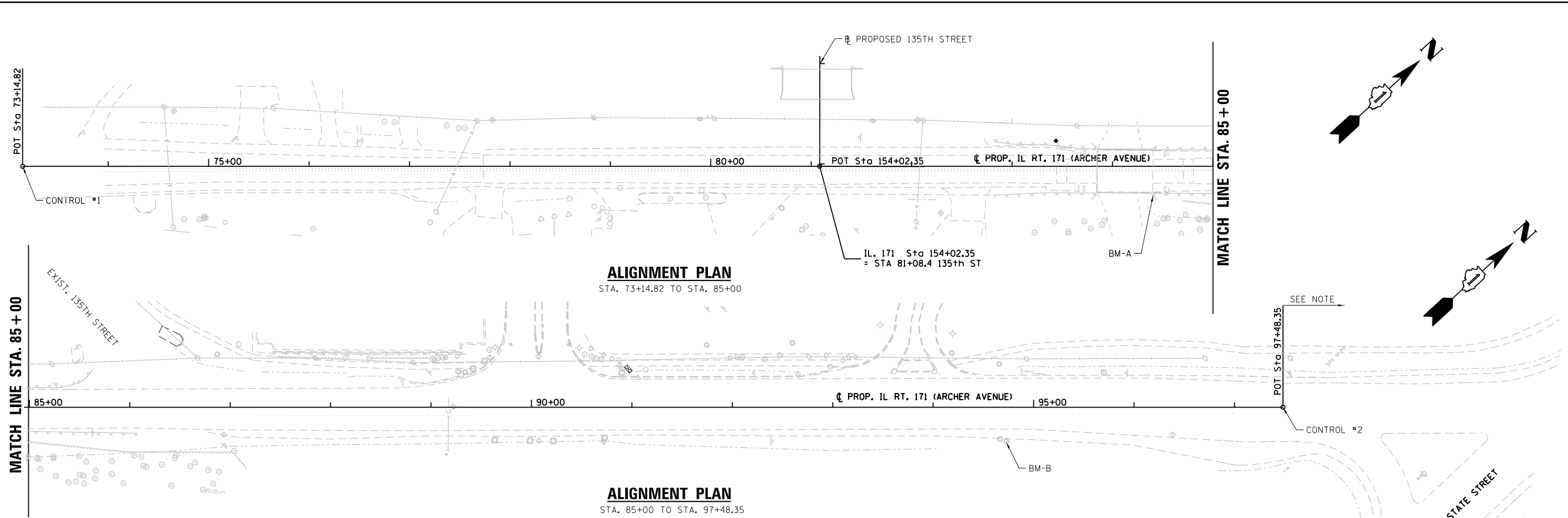
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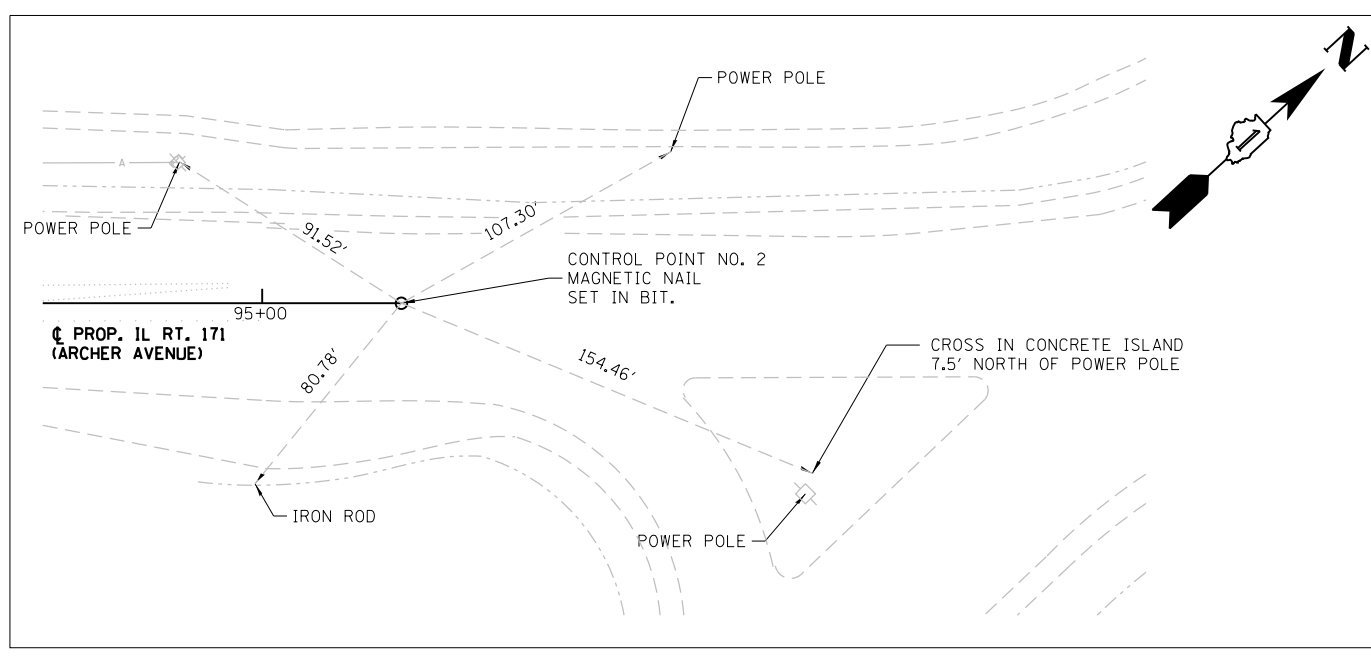
SCHEDULE OF QUANTITIES

SHEET NO. 3 OF 3 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
577	C-1-B	WILL & COOK	186	26
CONTRACT NO. 60H21				
ILLINOIS FED. AID PROJECT				



**CONTROL POINT #1**  
 STA. 73+14.82  
 N (1,811,301.847)  
 E (1,073,702.219)  
 ELEV. 676.121



**CONTROL POINT #2**  
 STA. 97+73.61  
 N (1,813,016.213)  
 E (1,075,191.073)  
 ELEV. 662.180

- NOTES:**
1. THE VERTICAL DATUM FOR THE DEVELOPMENT OF THESE PLANS ARE BASED ON NAVD-88. THE PLANS DEVELOPED FOR ADJACENT IMPROVEMENTS FOR 135TH ST. STREET RECONSTRUCTION (SECTION 10-00068-11FP) DEVELOPED FOR THE COUNTY OF WILL BY CHRISTOPHER B. BURKE ENGINEERING LTD. ARE BASED ON AN ALTERNATE VERTICAL DATUM. THE FOLLOWING DATUM EQUATION HAS BEEN USED TO RELATE ELEVATIONS SHOWN ON THE 135TH RECONSTRUCTION PLANS TO THOSE ELEVATIONS ON THESE PLANS:
  2. ELEVATIONS ON THESE PLANS + 0.36' = ELEVATIONS SHOWN ON HISTORICAL PLANS FOR 135TH ST. RECONSTRUCTION DATED 2012
  3. TOPOGRAPHY SHOWN HAS BEEN DERIVED FROM HISTORICAL DRAWINGS OR AERIAL PHOTOGRAPHY, THE CONTRACTOR SHALL VERIFY IN THE FIELD.

**BENCHMARK-A**  
 ELEV. 645.01  
 STA. 84+43.16  
 OFFSET 24.49' RT  
 SQUARE CUT  
 NORTH EAST WINGWALL  
 OF RTE 171 (ARCHER)  
 BRIDGE OVER  
 LONG RUN CREEK  
 N 1,812,116.721  
 E 1,074,483.064

**BENCHMARK-B**  
 ELEV. 653.23  
 STA. 94+73.61  
 OFFSET 33.94' RT  
 CROSS CUT IN BOLT OF FIRE  
 HYDRANT  
 ELEV. 653.23  
 N 1,812,869.636  
 E 1,075,186.661

3/17/2016

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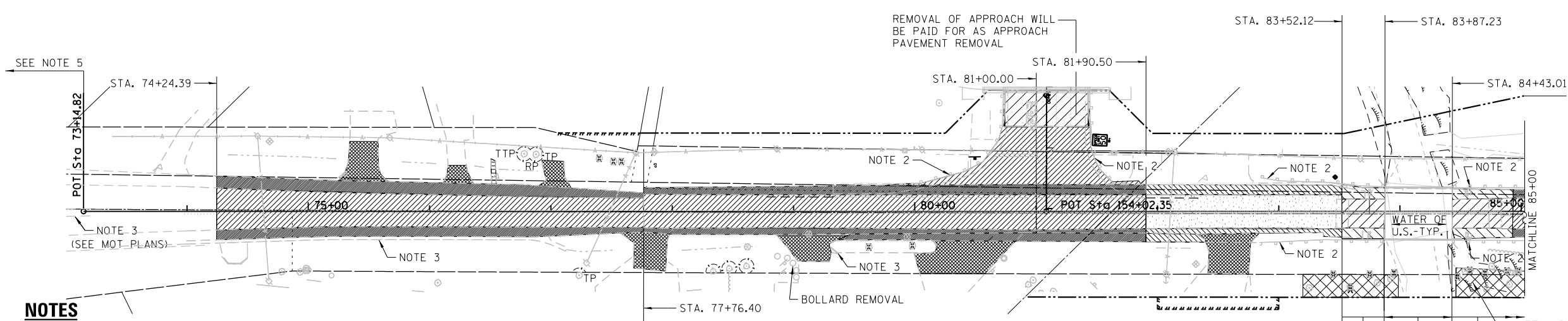
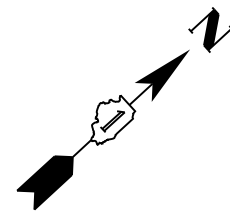
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STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

ALIGNMENT, TIES AND BENCHMARKS  
 SHEET NO. 1 OF 1 SHEETS

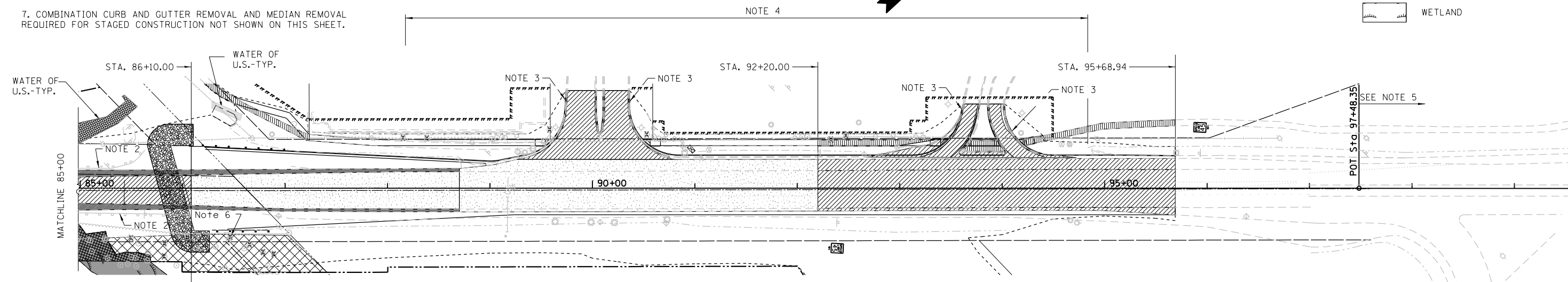
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
577	C-1-B	WILL & COOK	186	27
CONTRACT NO. 60H21				
ILLINOIS FED. AID PROJECT				



**PAVEMENT AND SHOULDER REMOVAL PLAN**  
STA. 73+14.82 TO STA. 85+00

- NOTES**
1. PAVEMENT REMOVAL REQUIRED FOR THE INSTALLATION OF TEMPORARY SHEET PILE WALL NOT SHOWN.
  2. GUARD RAIL REMOVAL - AT SOME LOCATIONS ALONG THE WEST SIDE OF ARCHER THE GUARDRAIL SHALL BE RELOCATED TO ACCOMMODATE STAGE 1 TRAFFIC AND FINAL REMOVAL OF GUARDRAIL SHALL BE IN STAGE 2
  3. CURB, GUTTER OR CURB AND GUTTER REMOVAL SHALL BE PAID FOR AS CURB AND GUTTER REMOVAL. AT LOCATIONS WHERE PAVEMENT IS NOTED TO BE LEFT IN PLACE AFTER BREAKING THE CURB AND GUTTER CAN BE ABANDONED AND WILL NOT BE PAID FOR TO BE REMOVED.
  4. THE EXISTING STORM SEWER THAT CONFLICTS WITH THE PROPOSED STORM SEWER SHALL BE REMOVED AND PAID FOR AS STORM SEWER REMOVAL 24".
  5. TOPOGRAPHY NOTED HAS BEEN DERIVED FROM HISTORICAL DRAWINGS OR AERIAL PHOTOGRAPHY, THE CONTRACTOR SHALL VERIFY IN THE FIELD.
  6. AN EXISTING ASH TREE WAS OBSERVED TO BE MARKED FOR REMOVAL WITH ORANGE "X" ON 4/13. CONTRACTOR TO VERIFY IF ALREADY REMOVED.
  7. COMBINATION CURB AND GUTTER REMOVAL AND MEDIAN REMOVAL REQUIRED FOR STAGED CONSTRUCTION NOT SHOWN ON THIS SHEET.

- LEGEND**
- DRIVEWAY PAVEMENT REMOVAL
  - PAVEMENT REMOVAL
  - PAVED SHOULDER REMOVAL
  - PAVEMENT BREAKING
  - PAVED SHOULDER BREAKING
  - APPROACH SLAB REMOVAL
  - BRIDGE APPROACH SHOULDER REMOVAL
  - SIDEWALK REMOVAL
  - TREE REMOVAL
  - TREES
  - DRAINAGE STRUCTURE TO BE REMOVED
  - SELECTIVE CLEARING
  - TEMP. FENCE TO PROTECT TREE
  - TTP - TREE TRUNK PROTECTION
  - RP - TREE ROOT PRUNING
  - TP - TREE PRUNING
  - WETLAND



**PAVEMENT AND SHOULDER REMOVAL PLAN**  
STA. 85+00 TO STA. 97+48.35

PAVEMENT/SHOULDER  
REMOVAL FOR NEW BRIDGE  
CONSTRUCTION

3/17/2016

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DEPARTMENT OF TRANSPORTATION**

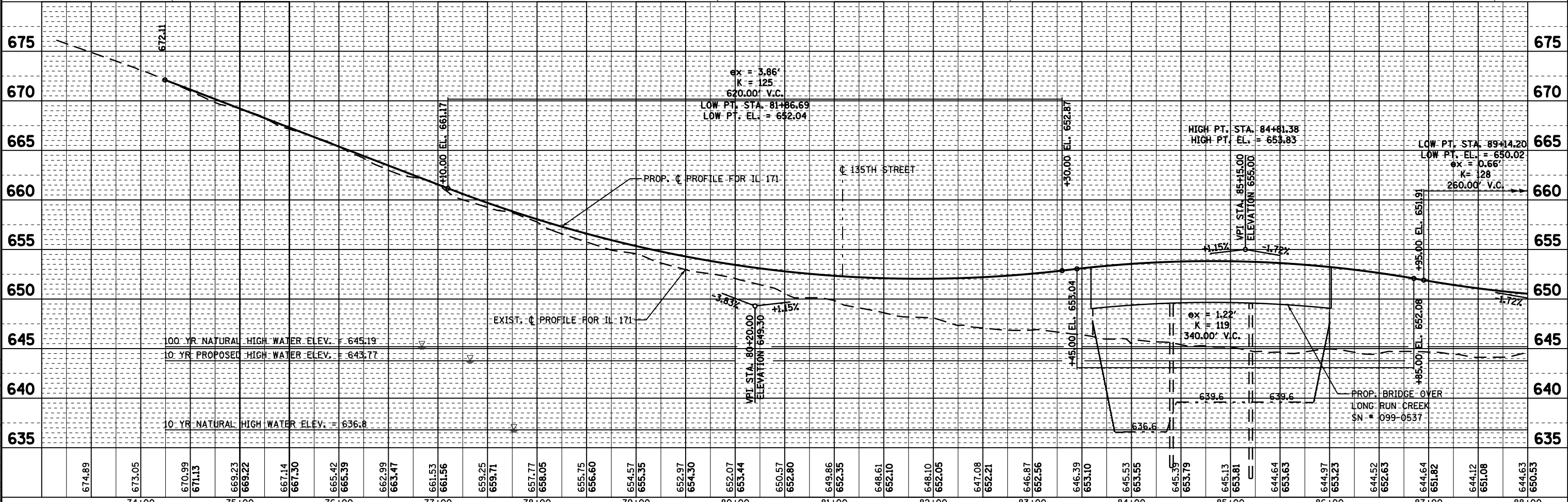
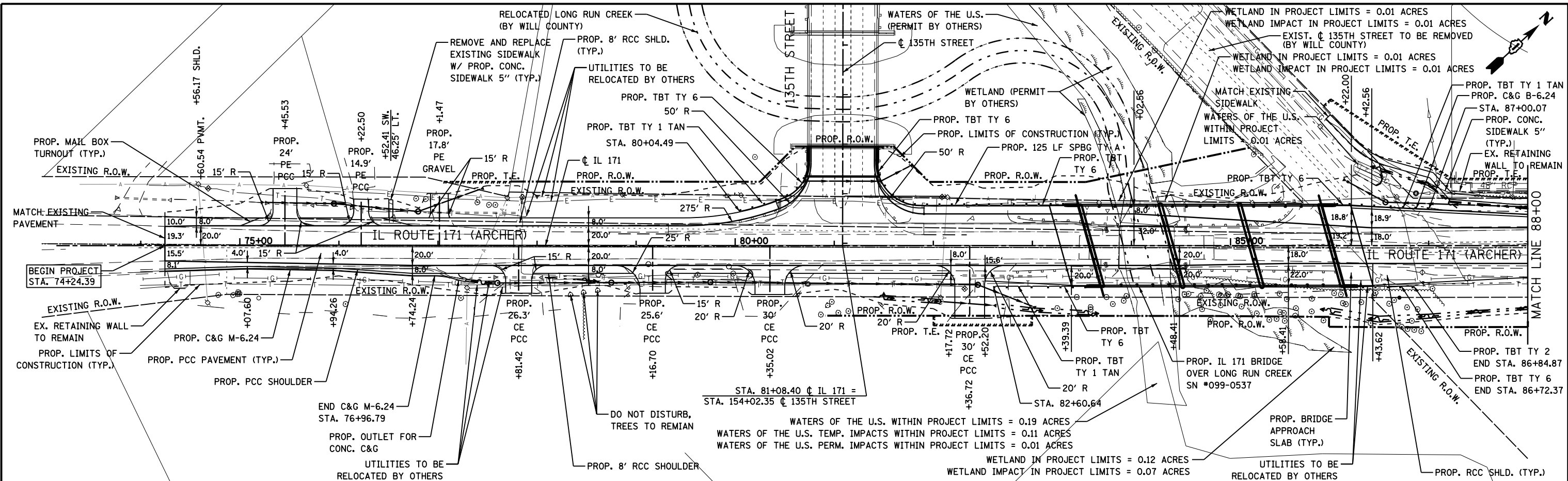
**PAVEMENT AND SHOULDER REMOVAL PLAN**

SHEET NO. 1 OF 1 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
577	C-1-B	WILL & COOK	186	28
CONTRACT NO. 60H21				
ILLINOIS FED. AID PROJECT				

DATE	BY	DATE
PLAN	SUBMITTED	

DATE	BY	DATE
PROFILE	SUBMITTED	

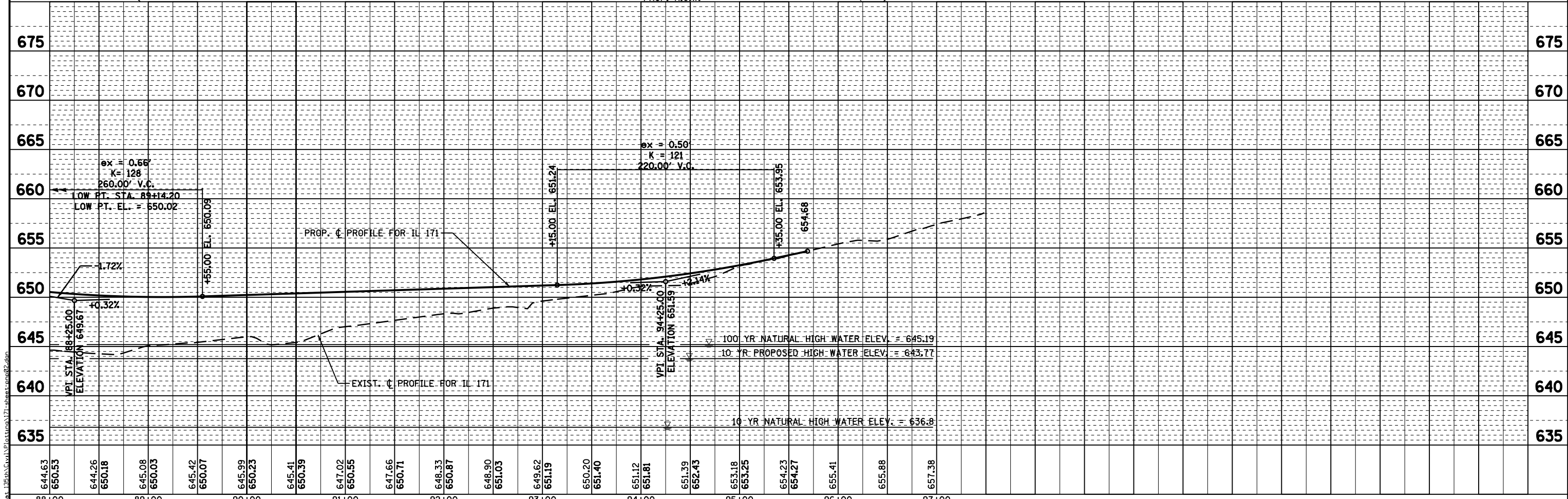
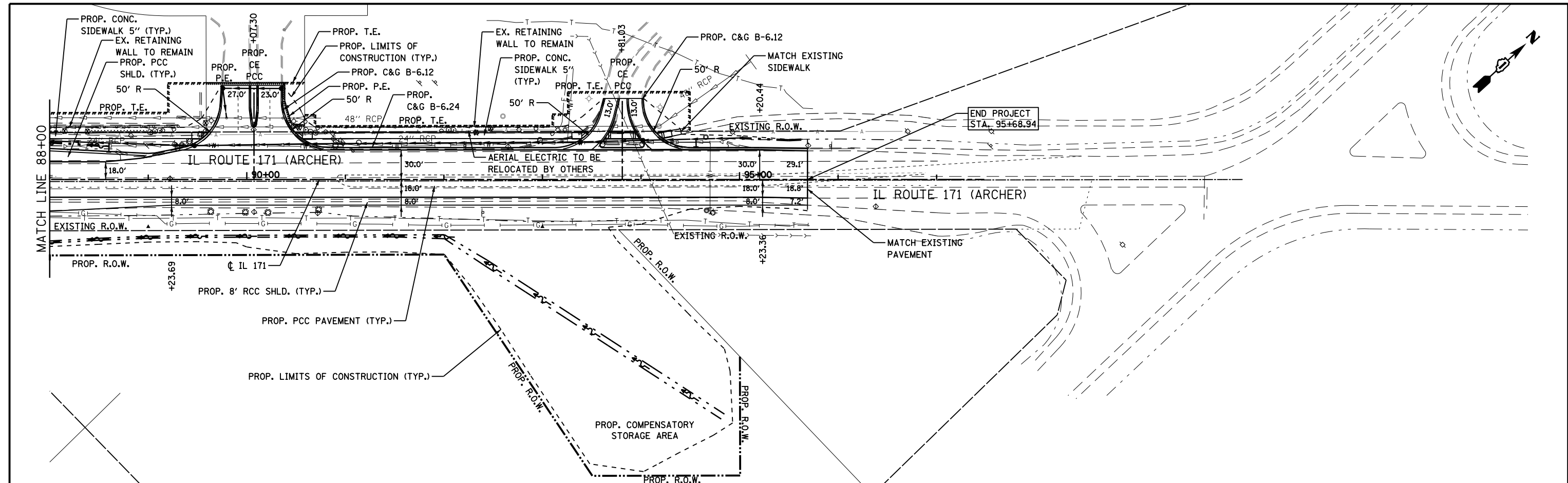


<b>PARSONS BRINCKERHOFF</b> 230 West Monroe St., Suite 900 Chicago, IL 60606, (312) 782-8150	USER NAME = clemensc	DESIGNED - CJC	REVISED -	<b>STATE OF ILLINOIS</b> <b>DEPARTMENT OF TRANSPORTATION</b>	<b>IL 171 PLAN AND PROFILE</b>	F.A.P. RTE. = 577	SECTION = C-1-B	COUNTY = WILL/COOK	TOTAL SHEETS = 186	SHEET NO. = 29		
	PLOT SCALE = 1" = 50'	CHECKED - RFT	REVISED -			SCALE: 1" = 50'	SHEET NO. 1 OF 3 SHEETS	STA. 74+24.39	TO STA. 88+00.00	ILLINOIS FED. AID PROJECT		
	PLOT DATE = 17-MAR-2016	DATE = 3/18/2016	REVISED -			CONTRACT NO. 60H21						

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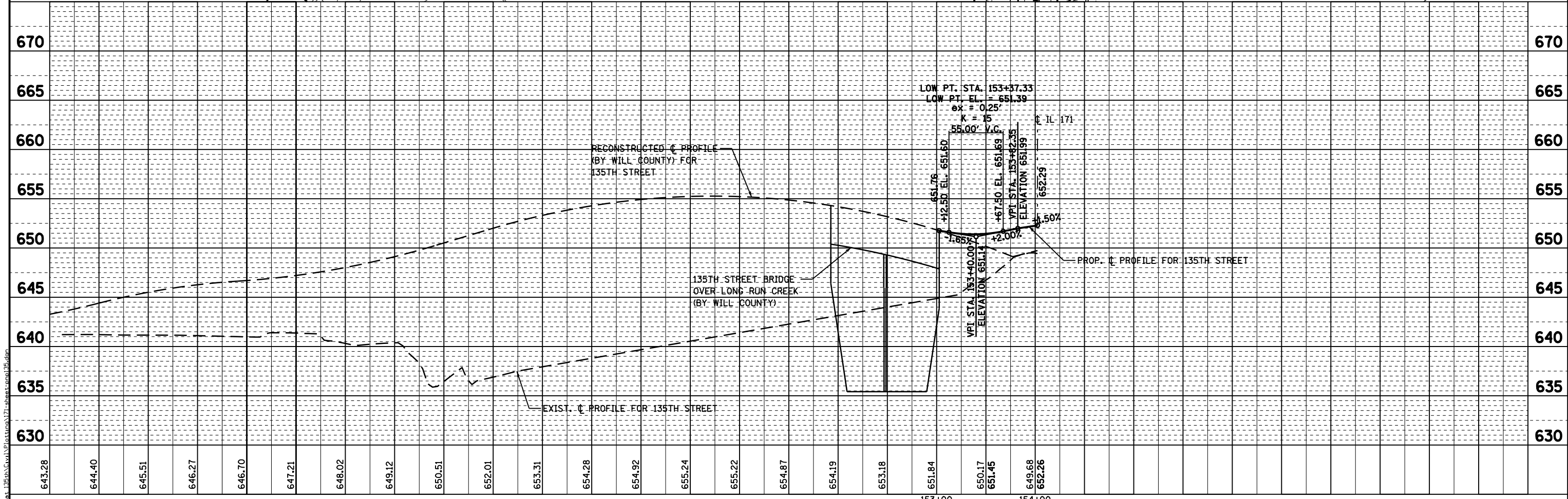
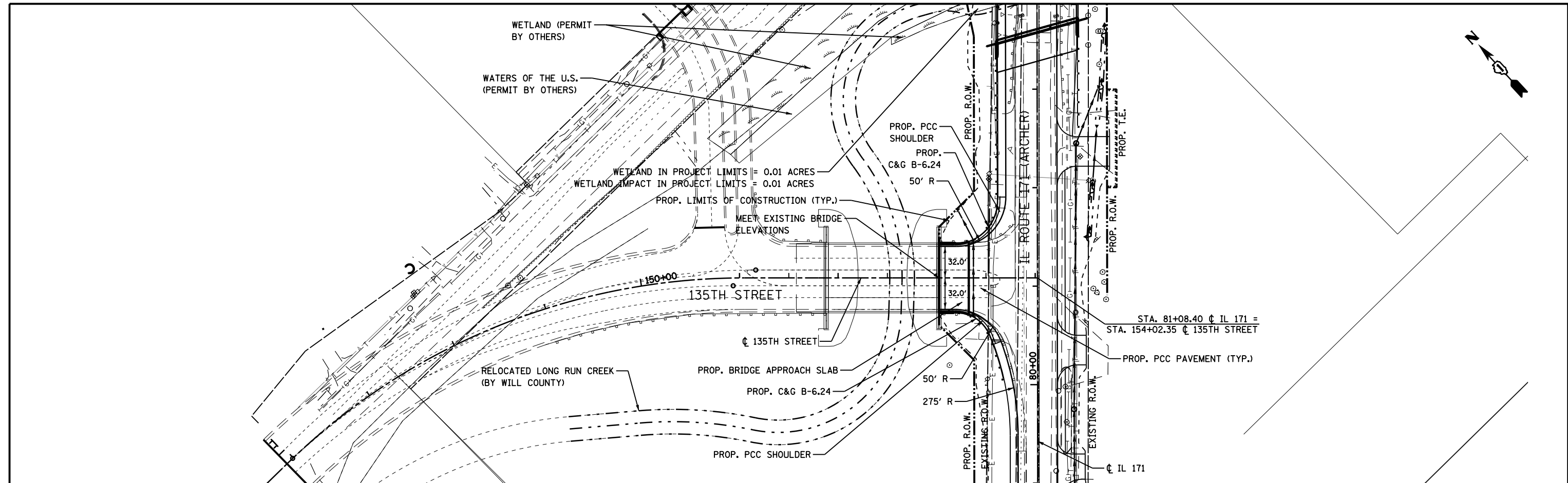
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	PLOTTED	
	ALIGNED	
	CHECKED	
	FILED	
	CADD FILE NAME	
	NO.	

PROFILE	SUBMITTED	DATE
	PLOTTED	
	GRADES CHECKED	
	STRUCTURE NOTATIONS OK'D	
	NO.	



PLAN	SUBMITTED	DATE
	PLOTTED	
	ALIGNMENT CHECKED	
	NOTED	
	CADD FILE NAME	
	NO.	

PROFILE	SUBMITTED	DATE
	PLOTTED	
	GRADES CHECKED	
	STRUCTURE NOTATIONS OK'D	
	NO.	



**PARSONS BRINCKERHOFF**  
 230 West Monroe St., Suite 900  
 Chicago, IL 60606, (312) 782-8150

USER NAME = clemosc	DESIGNED - CJC	REVISED -
PLOT SCALE = 1" = 50'	DRAWN - CJC	REVISED -
PLOT DATE = 17-MAR-2016	CHECKED - RFT	REVISED -
	DATE - 3/18/2016	REVISED -

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**135TH STREET PLAN AND PROFILE**

SCALE: 1" = 50'    SHEET NO. 3 OF 3 SHEETS    STA. 153+02.62 TO STA. 154+02.35

F.A.P. RTE. 577	SECTION C-1-B	COUNTY WILL/COOK	TOTAL SHEETS 186	SHEET NO. 31
CONTRACT NO. 60H21			ILLINOIS FED. AID PROJECT	

**TRAFFIC MAINTENANCE NOTES:**

1. THE CONTRACTOR SHALL MAINTAIN AT LEAST ONE LANE IN EACH DIRECTION ON IL ROUTE 171 (ARCHER AVENUE) THROUGHOUT THE DURATION OF THE CONTRACT.
2. THE CONTRACTOR SHALL MAINTAIN TRAFFIC IN ACCORDANCE WITH THE SPECIAL PROVISIONS AND AS DIRECTED BY THE ENGINEER.
3. THE CONTRACTOR SHALL CONTACT THE DISTRICT ONE TRAFFIC CONTROL SUPERVISOR AT (847) 705-4470 AT LEAST 72 HOURS IN ADVANCE OF BEGINNING WORK.
4. THE ENGINEER SHALL BE INFORMED 48 HOURS IN ADVANCE OF ANY CHANGE IN CONSTRUCTION STAGING.
5. TYPE II BARRICADES OR DRUMS SHALL BE EQUIPPED WITH MONO-DIRECTIONAL STEADY BURN LIGHTS IN MULTILANE SECTIONS AND BI-DIRECTIONAL STEADY BURN LIGHTS IN TWO LANE TWO WAY SECTIONS. THEY SHALL BE PLACED AT 50 FEET INTERVALS ON TANGENTS, AND 20 FEET INTERVALS ON TAPERS AND RADII AS INDICATED ON THE PLANS, OR AS DIRECTED BY THE ENGINEER.
6. THE CONTRACTOR SHALL BE REQUIRED TO REMOVE ALL PAVEMENT MARKINGS WHICH CONFLICT WITH THE DESIGNATED TRAFFIC CONTROL PLAN. THIS WORK SHALL BE PAID FOR AS 'PAVEMENT MARKING REMOVAL'.
7. THE CONTRACTOR SHALL MAKE A SOLID WHITE EDGELINE AT EACH SIDE OF ROADWAY DURING STAGED TRAFFIC OPERATIONS. THIS WORK SHALL BE PAID FOR AT THE CONTRACT UNIT PRICE FOR EPOXY PAVEMENT MARKING LINE, 4", AND WET REFLECTIVE TEMPORARY TAPE, TYPE III 4" AS SHOWN ON THE PLANS.
8. SIGN LOCATIONS ARE APPROXIMATE AND SUBJECT TO LOCATION ADJUSTMENT DURING CONSTRUCTION AS DIRECTED BY THE ENGINEER AT NO ADDITIONAL COST.
9. THE FURNISHING, INSTALLING AND RELOCATION OF ALL TRAFFIC SIGNS SHALL BE IN ACCORDANCE WITH THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD), AND THE STANDARD SPECIFICATIONS. THIS WORK SHALL BE INCLUDED IN THE COST OF TRAFFIC CONTROL AND PROTECTION.
10. ALL EXISTING CONFLICTING SIGNS SHALL BE REMOVED, RELOCATED OR COVERED AS DIRECTED BY THE ENGINEER. THIS WORK SHALL BE INCLUDED IN THE COST OF TRAFFIC CONTROL AND PROTECTION.
11. THE TEMPORARY PAVEMENT MARKING SHALL BE THE TYPE AS INDICATED ON THE PLANS PER STAGE.

MAINTAIN ACCESS TO PROPERTIES EAST SIDE OF ARCHER AVENUE, SOUTH OF BRIDGE, PER DISTRICT ONE DETAIL TC-10.

MAINTAIN TRAFFIC INTO THE SHOPPING MALL ENTRANCES ONTO ARCHER AVENUE PER DISTRICT ONE DETAIL TC-10.

**WORK ACTIVITIES:**

INSTALL TEMPORARY SHEET PILE WALL, CONSTRUCT TEMPORARY TRAFFIC SIGNAL AT SHOPPING MALL ENTRANCE, CONSTRUCT PORTIONS OF PERMANENT TRAFFIC SIGNALS.

RELOCATE BENCHMARK 'A' AFFECTED BY BRIDGE DEMOLITION ACTIVITIES, REMOVE EAST PORTION OF EXISTING BRIDGE, PROVIDE APPROVED MEANS AND METHODS TO CONSTRUCT CONCRETE EAST PORTION OF PIERS IN DRY CONDITIONS, CONSTRUCT EAST PORTION OF NEW BRIDGE.

DEPENDING ON THE DEPTH OF FILL, REMOVE, BREAK AND LEAVE IN PLACE THE EAST PORTION OF EXISTING IL ROUTE 171 (ARCHER AVENUE) PAVEMENT, INSTALL FILL AND CONSTRUCT NEW PAVEMENT.

MAINTAIN ENTRANCES TO PROPERTIES AT ALL TIMES.

CONSTRUCT DRAINAGE IMPROVEMENTS AND COMPENSATORY STORAGE.

**STAGE 1B**

**TRAFFIC:**

SAME AS STAGE 1A.

**WORK ACTIVITIES:**

INSTALL TEMPORARY PAVEMENT WIDENING REQUIRED FOR STAGE 2.

INSTALL TEMPORARY PAVEMENT AT ENTRANCES TO PROPERTIES EAST OF ARCHER AVENUE - WORK WINDOW TO BE APPROVED BY THE RESIDENT ENGINEER WITH COORDINATION WITH PROPERTY OWNERS. FOR BID PURPOSES, THE CONTRACTOR SHALL ASSUME WORK WINDOW WILL BE LIMITED TO NIGHT WORK AND TO BE PERFORMED IN A MAXIMUM OF ONE SHIFT.

MAINTAIN TEMPORARY ENTRANCES TO PROPERTIES AT ALL TIMES.

**STAGE 2A**

**TRAFFIC:**

SHIFT NORTHBOUND AND SOUTHBOUND TRAFFIC ON THE EAST PORTION OF IL ROUTE 171 (ARCHER AVENUE) NEW PAVEMENT, SHOULDER, AND TEMPORARY SHOULDER AS WELL AS EAST PORTION OF NEW BRIDGE.

INSTALL DETOUR ROUTE SIGNAGE FOR 135TH STREET TRAFFIC, MAINTAIN TRAFFIC TO/FROM THE SHOPPING MALL ENTRANCES ONTO ARCHER AVENUE.

**WORK ACTIVITIES:**

INSTALL TEMPORARY PAVEMENT AT SHOPPING MALL ENTRANCES TO ARCHER AVENUE - WORK WINDOW TO BE APPROVED BY THE RESIDENT ENGINEER WITH COORDINATION WITH PROPERTY OWNERS. FOR BID PURPOSES, THE CONTRACTOR SHALL ASSUME WORK WINDOW WILL BE LIMITED TO NIGHT WORK AND TO BE PERFORMED IN A MAXIMUM OF ONE SHIFT.

RELOCATE TEMPORARY TRAFFIC SIGNAL, CONSTRUCT PORTION OF PERMANENT TRAFFIC SIGNALS.

REMOVE WEST PORTION OF EXISTING BRIDGE, PROVIDE APPROVED MEANS AND METHODS TO CONSTRUCT CONCRETE WEST PORTION OF PIERS IN DRY CONDITIONS, CONSTRUCT WEST PORTION OF NEW BRIDGE.

DEPENDING ON THE DEPTH OF FILL, REMOVE, OR BREAK AND LEAVE IN PLACE THE WEST PORTION OF EXISTING IL ROUTE 171 (ARCHER AVENUE) PAVEMENT, INSTALL FILL AND CONSTRUCT NEW PAVEMENT.

CONSTRUCT PERMANENT PAVEMENT AT INTERSECTION OF 135TH STREET AND ARCHER AVENUE THIS WORK SHALL BE PERFORMED WITH THE COORDINATION OF THE ENGINEER AND ADJACENT PROPERTY OWNERS WITH A TIME WINDOW DURATION OF NO LONGER THAN 2 MONTHS.

CONSTRUCT DRAINAGE IMPROVEMENTS, AND SAFETY IMPROVEMENTS.

**STAGE 2B**

**TRAFFIC:**

SAME AS STAGE 2A EXCEPT MAINTAIN 135 TH STREET INTERSECTION WITH IL ROUTE 171 (ARCHER AVENUE), AND REMOVE DETOUR ROUTE SIGNAGE.

**WORK ACTIVITIES:**

CONTINUE WITH WORK NOTED IN STAGE 2A EXCEPT CONSTRUCTION OF PERMANENT PAVEMENT AT 135 TH STREET AND ARCHER AVENUE INTERSECTION, AND TEMPORARY PAVEMENTS AT SHOPPING MALL ENTRANCES.

**STAGE 3A**

**TRAFFIC:**

SHIFT NORTHBOUND AND SOUTHBOUND TRAFFIC ON THE WEST PORTION OF IL ROUTE 171 (ARCHER AVENUE) NEW PAVEMENT.

**WORK ACTIVITIES:**

REPLACE TEMPORARY PAVEMENT WITH PERMANENT PAVEMENT AT PROPERTIES EAST OF ARCHER AVENUE WHERE TEMPORARY PAVEMENTS WERE INSTALLED DURING STAGE 1B.

**STAGE 3B**

**TRAFFIC:**

SHIFT NORTHBOUND AND SOUTHBOUND TRAFFIC ON THE EAST PORTION OF IL ROUTE 171 (ARCHER AVENUE) NEW PAVEMENT. MAINTAIN TRAFFIC TO NORTH ENTRANCE TO SHOPPING MALL.

PERMANENT TRAFFIC SIGNAL AT 135TH STREET AND IL ROUTE 171 INTERSECTION IS ACTIVATED.

**WORK ACTIVITIES:**

REPLACE TEMPORARY PAVEMENT WITH PERMANENT PAVEMENT AT SOUTH ENTRANCE TO SHOPPING MALL.

AT THE SOUTH END OF THE PROJECT, REMOVE TEMPORARY PAVEMENT AND INSTALL RAISED MEDIAN.

**STAGE 3C**

**TRAFFIC:**

NORTHBOUND AND SOUTHBOUND TRAFFIC ON THE EAST PORTION OF IL ROUTE 171 (ARCHER AVENUE) NEW PAVEMENT.

MAINTAIN TRAFFIC TO SOUTH ENTRANCE TO SHOPPING MALL.

**WORK ACTIVITIES:**

REPLACE TEMPORARY PAVEMENT WITH PERMANENT PAVEMENT AT NORTH ENTRANCE TO SHOPPING MALL.

**STAGING NOTES:**

**PRE-STAGE 1**

**TRAFFIC:**

SHIFT NORTHBOUND AND SOUTHBOUND TRAFFIC TO THE EAST SIDE OF IL ROUTE 171 (ARCHER AVENUE). AT THE SOUTH END OF THE PROJECT, SHIFT TRAFFIC AWAY FROM THE CENTER RAISED MEDIAN.

**WORK ACTIVITIES:**

WIDEN AND IMPROVE THE WEST SHOULDER IN PREPARATION FOR STAGE 1 TRAFFIC. REMOVE GUTTER OR CURB AND GUTTER, REGRADE DITCHES, ADJUST DRIVEWAY CULVERTS AND RELOCATE GUARDRAIL IF THEY CONFLICT WITH STAGE 1 TRAFFIC PATTERN.

RELOCATE FIRE HYDRANT AND INSTALL TEMPORARY PAVEMENT AT SHOPPING MALL ENTRANCE FOR STAGE 1 LEFT TURN TRAFFIC - WORK WILL BE CONDUCTED AFTER THE CLOSE OF BUSINESS FOR THE SHOPPING MALL.

AT THE SOUTH END OF THE PROJECT, REMOVE RAISED MEDIAN AND INSTALL TEMPORARY PAVEMENT.

**STAGE 1A**

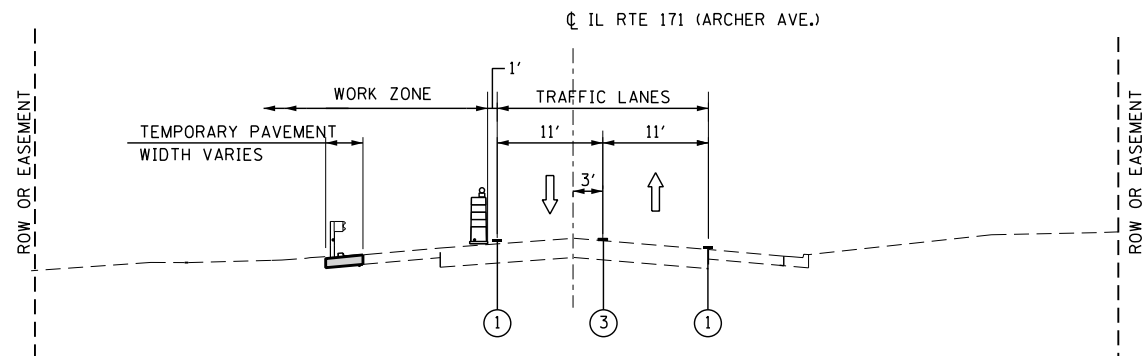
**TRAFFIC:**

SHIFT NORTHBOUND AND SOUTHBOUND TRAFFIC ON THE WEST SIDE OF IL ROUTE 171 (ARCHER AVENUE) PAVEMENT AND PORTIONS OF THE WIDENED AND IMPROVED WEST SHOULDER.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
577	C-1-B	WILL/COOK	186	32
CONTRACT NO. 60H21			ILLINOIS FED. AID PROJECT	

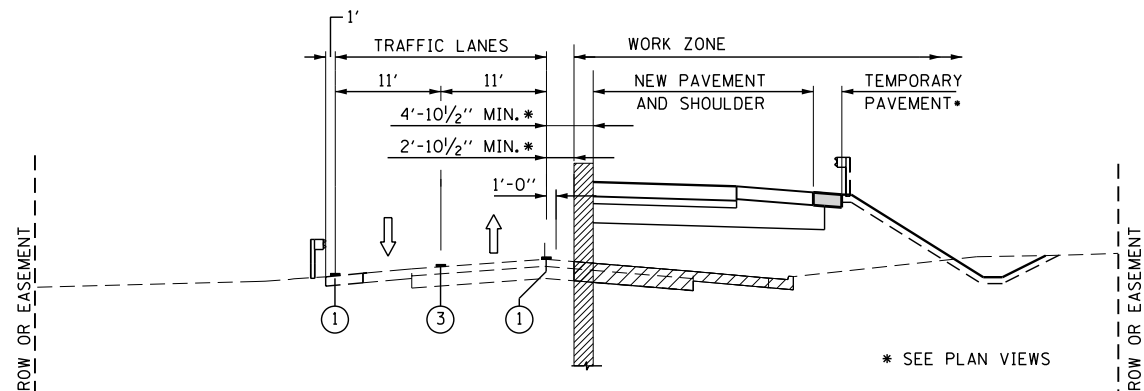
3/18/2016	DESIGNED - HMH (HBM)	REVISED -
	CHECKED - JMG (HBM)	REVISED -
	DRAWN - BL	REVISED -
	CHECKED - RT	REVISED -





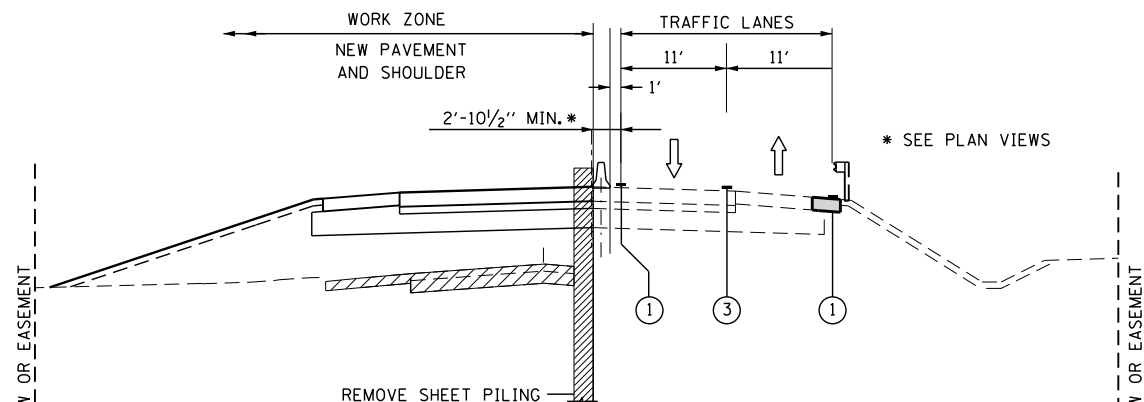
**SECTION PRE - STAGE 1**

LOOKING NORTH



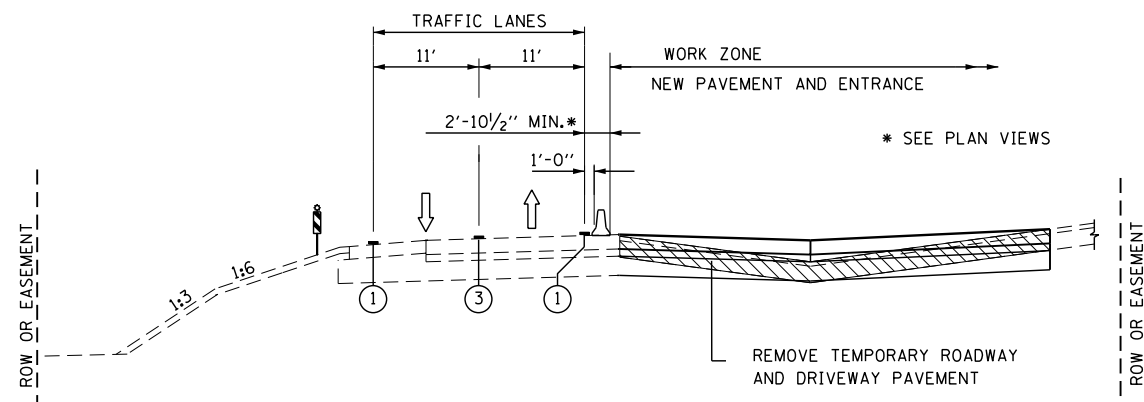
**SECTION STAGE 1**

LOOKING NORTH



**SECTION STAGE 2**

LOOKING NORTH



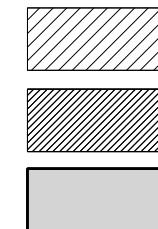
**SECTION STAGE 3A**

LOOKING NORTH

**LEGEND**

- ① TEMPORARY PAVEMENT MARKING 4" WHITE SOLID
- ② TEMPORARY PAVEMENT MARKING 4" YELLOW SOLID
- ③ TEMPORARY PAVEMENT MARKING 4" DOUBLE YELLOW SOLID

- VERTICAL PANEL, DOUBLE SIDED WITH BI-DIRECTIONAL LIGHTS @ 50' C-C
- STEEL PLATE BEAM GUARDRAIL
- TEMPORARY CONCRETE BARRIER WALL
- DRUM OR TYPE II BARRICADE

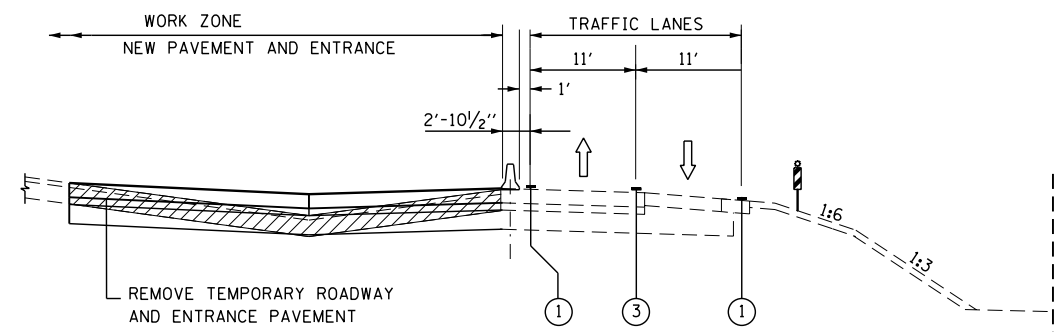


REMOVAL

TEMPORARY SHEET PILE

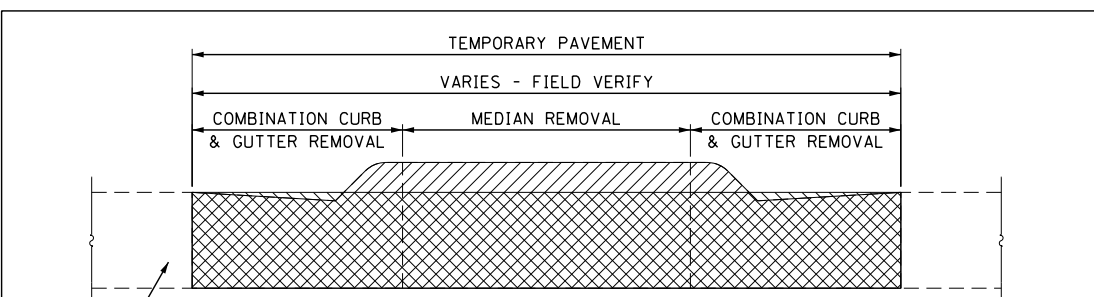
TEMPORARY PAVEMENT:  
 - 2" HMA SURFACE COURSE, MIX "D", N50  
 - 8" HMA BINDER COURSE, IL-19.0, N50  
 - 4" SUBBASE GRANULAR MATERIAL, TYPE B (CA-6)

NOTE: SEE MOT PLAN SHEETS FOR TYPE OF TEMPORARY PAVEMENT MARKING.



**SECTION STAGE 3B & 3C**

LOOKING NORTH

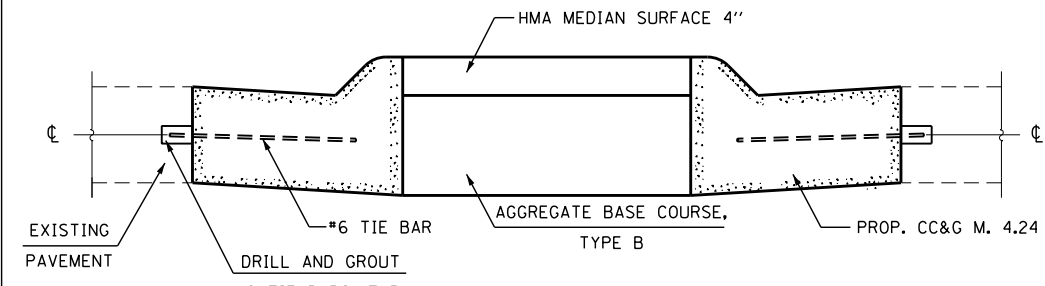


**SECTION B-B  
 MEDIAN REMOVAL AND REPLACEMENT WITH  
 TEMPORARY PAVEMENT FOR TRAFFIC CONTROL**

EXISTING PAVEMENT

**NOTE**

AT COMPLETION OF PROJECT IMPROVEMENTS REMOVE TEMPORARY PAVEMENT AND RESTORE MEDIAN CURB AND GUTTER TO PRE. CONSTRUCTION LOCATION.



**SECTION B-B  
 PROPOSED MEDIAN**

**NOTE**

TEMPORARY CONCRETE BARRIER WALL SHALL BE CONTINUOUSLY PINNED TO THE PAVEMENT WHENEVER A 3.5 FOOT CLEAR ZONE FREE OF DROP-OFFS, FIXED OBJECTS OR OTHER OBSTACLES CANNOT BE PROVIDED FOR BEHIND THE WALL.

\$FILEL\$

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 230 West Monroe Street, Suite 900  
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	CHECKED - JMG (HBM)	REVISED -
	DRAWN - BL	REVISED -
	CHECKED - RT	REVISED -

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 DEPARTMENT OF TRANSPORTATION**









**TRAFFIC CONTROL SECTIONS**

SHEET NO. 2 OF 17 SHEETS


F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
577	C-1-B	WILL	186	33
CONTRACT NO. 60H21				

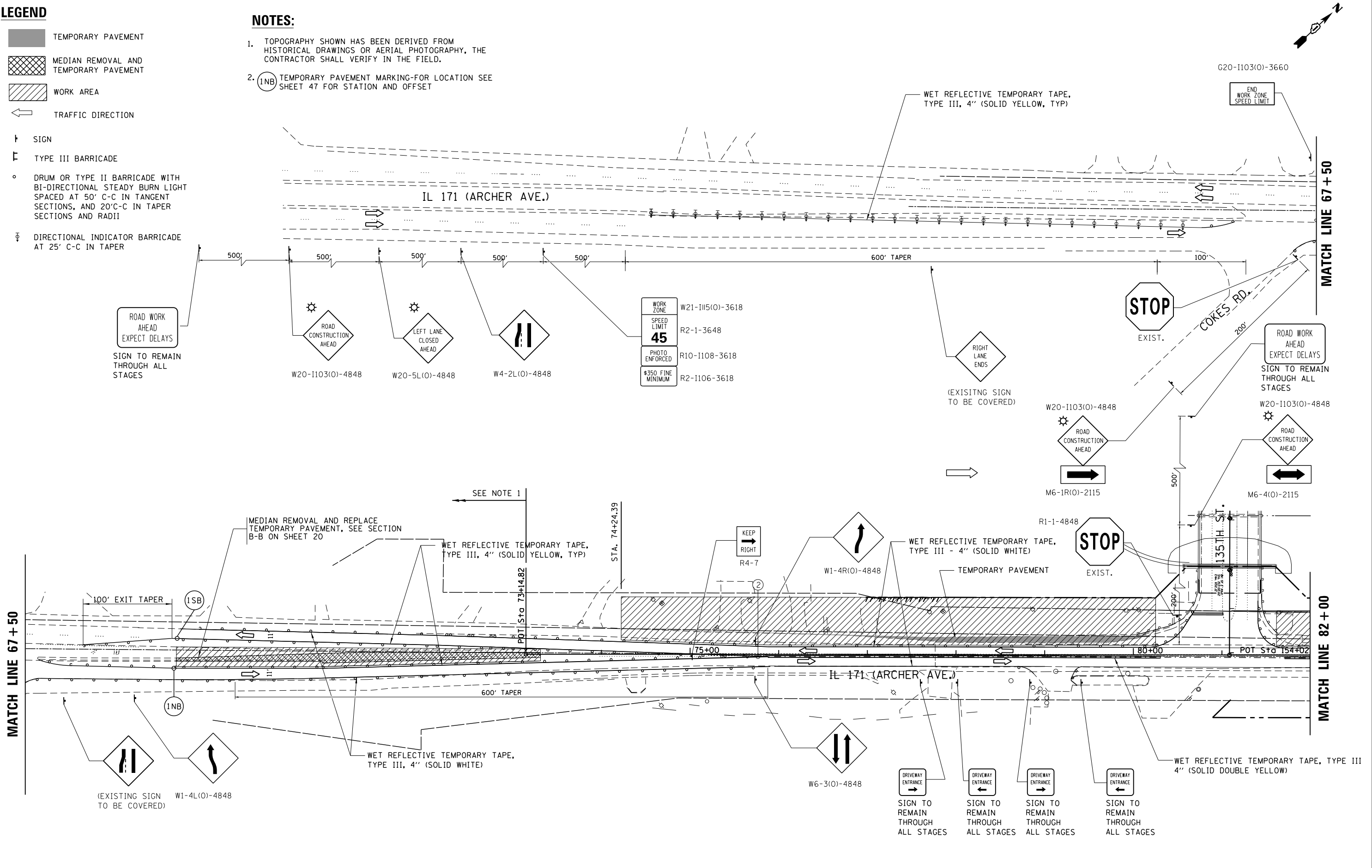
ILLINOIS FED. AID PROJECT

**LEGEND**

-  TEMPORARY PAVEMENT
-  MEDIAN REMOVAL AND TEMPORARY PAVEMENT
-  WORK AREA
-  TRAFFIC DIRECTION
-  SIGN
-  TYPE III BARRICADE
-  DRUM OR TYPE II BARRICADE WITH BI-DIRECTIONAL STEADY BURN LIGHT SPACED AT 50' C-C IN TANGENT SECTIONS, AND 20' C-C IN TAPER SECTIONS AND RADII
-  DIRECTIONAL INDICATOR BARRICADE AT 25' C-C IN TAPER

**NOTES:**

1. TOPOGRAPHY SHOWN HAS BEEN DERIVED FROM HISTORICAL DRAWINGS OR AERIAL PHOTOGRAPHY, THE CONTRACTOR SHALL VERIFY IN THE FIELD.
2.  TEMPORARY PAVEMENT MARKING-FOR LOCATION SEE SHEET 47 FOR STATION AND OFFSET



FILE NAME =  
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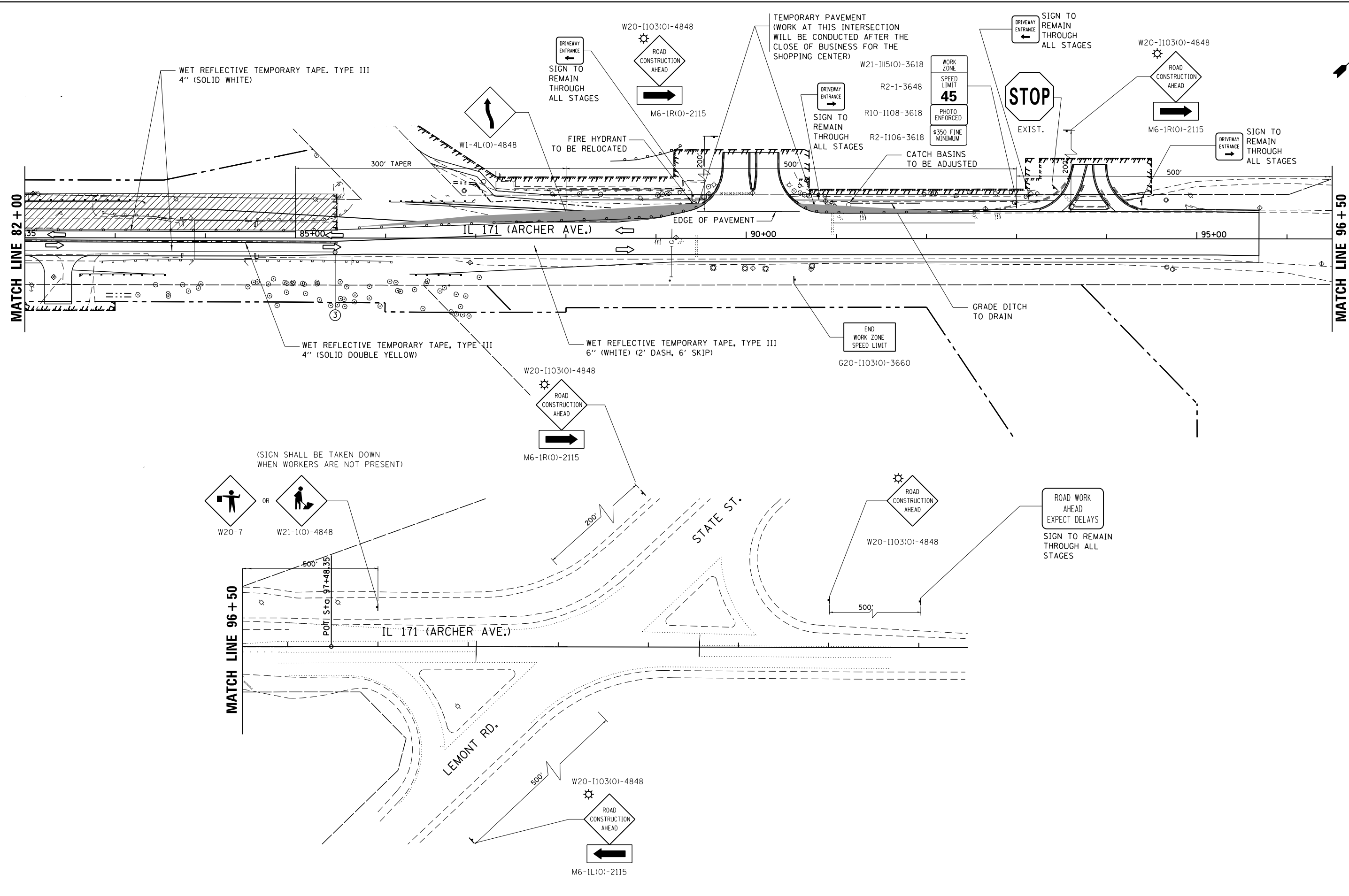
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PLOT DATE = \$DATE\$	DATE - 3/30/2016	REVISED -

**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

**IL 171 MOT**  
**PRE-STAGE 1**

SCALE: 50:1    SHEET 3    OF 17 SHEETS    STA.    TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
577	C-1-B	WILL/COOK	186	34
CONTRACT NO. 60H21			ILLINOIS FED. AID PROJECT	



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3/18/2016	DRAWN - JMG (HBM)	REVISED -
PLOT SCALE = \$SCALE\$	CHECKED - BL	REVISED -
PLOT DATE = \$DATE\$	DATE - 3/30/2016	REVISED -

**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

**IL 171 MOT**  
**PRE-STAGE 1**

SCALE: 50:1    SHEET 4 OF 17 SHEETS    STA.    TO STA.

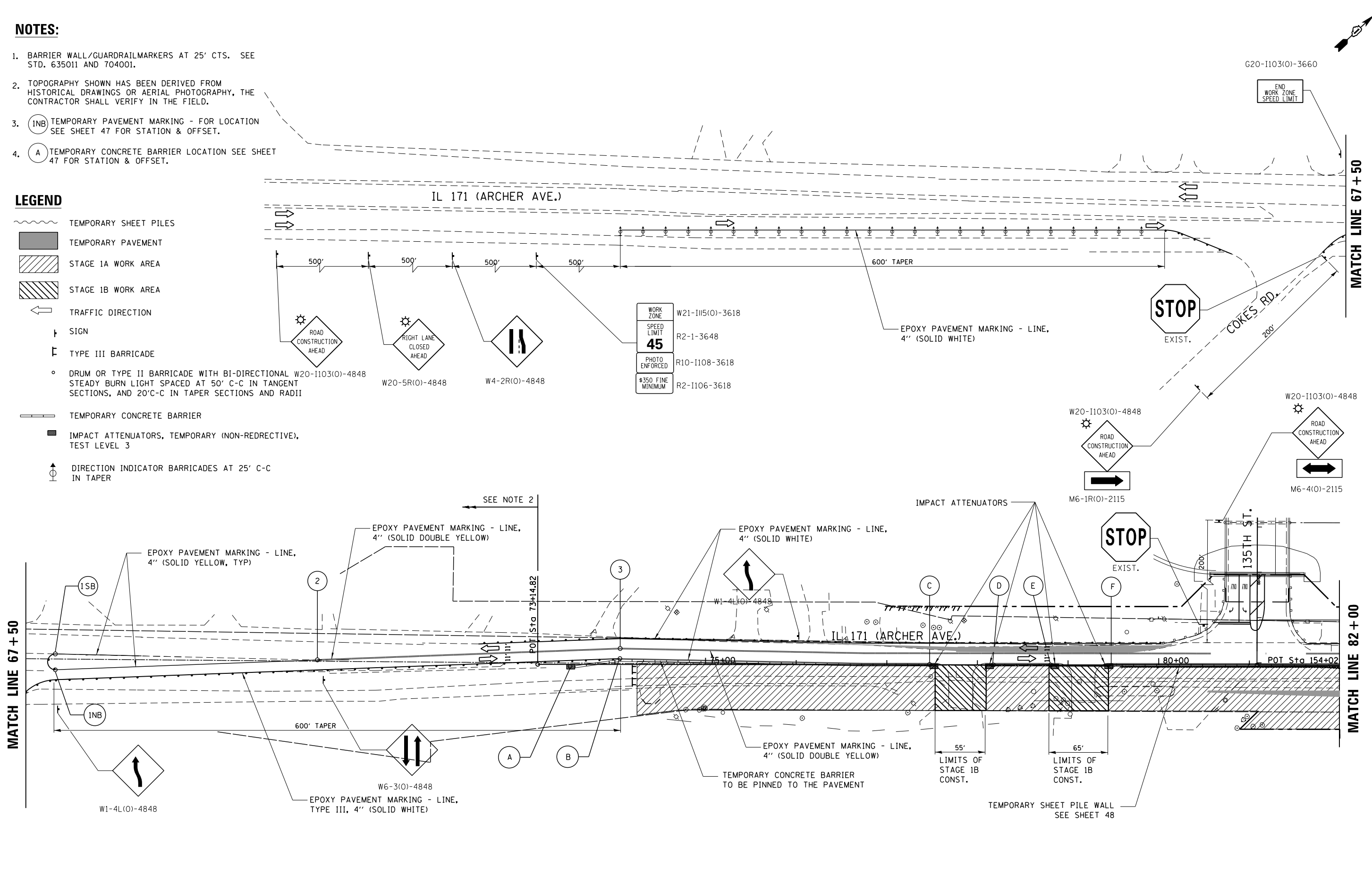
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
577	C-1-B	WILL/COOK	186	35
CONTRACT NO. 60H21				
ILLINOIS FED. AID PROJECT				

**NOTES:**

1. BARRIER WALL/GUARDRAILMARKERS AT 25' CTS. SEE STD. 635011 AND 704001.
2. TOPOGRAPHY SHOWN HAS BEEN DERIVED FROM HISTORICAL DRAWINGS OR AERIAL PHOTOGRAPHY, THE CONTRACTOR SHALL VERIFY IN THE FIELD.
3. (1NB) TEMPORARY PAVEMENT MARKING - FOR LOCATION SEE SHEET 47 FOR STATION & OFFSET.
4. (A) TEMPORARY CONCRETE BARRIER LOCATION SEE SHEET 47 FOR STATION & OFFSET.

**LEGEND**

- TEMPORARY SHEET PILES
- TEMPORARY PAVEMENT
- STAGE 1A WORK AREA
- STAGE 1B WORK AREA
- TRAFFIC DIRECTION
- SIGN
- TYPE III BARRICADE
- DRUM OR TYPE II BARRICADE WITH BI-DIRECTIONAL W20-1103(O)-4848 STEADY BURN LIGHT SPACED AT 50' C-C IN TANGENT SECTIONS, AND 20'C-C IN TAPER SECTIONS AND RADII
- TEMPORARY CONCRETE BARRIER
- IMPACT ATTENUATORS, TEMPORARY (NON-REDRECTIVE), TEST LEVEL 3
- DIRECTION INDICATOR BARRICADES AT 25' C-C IN TAPER



FILE NAME =  
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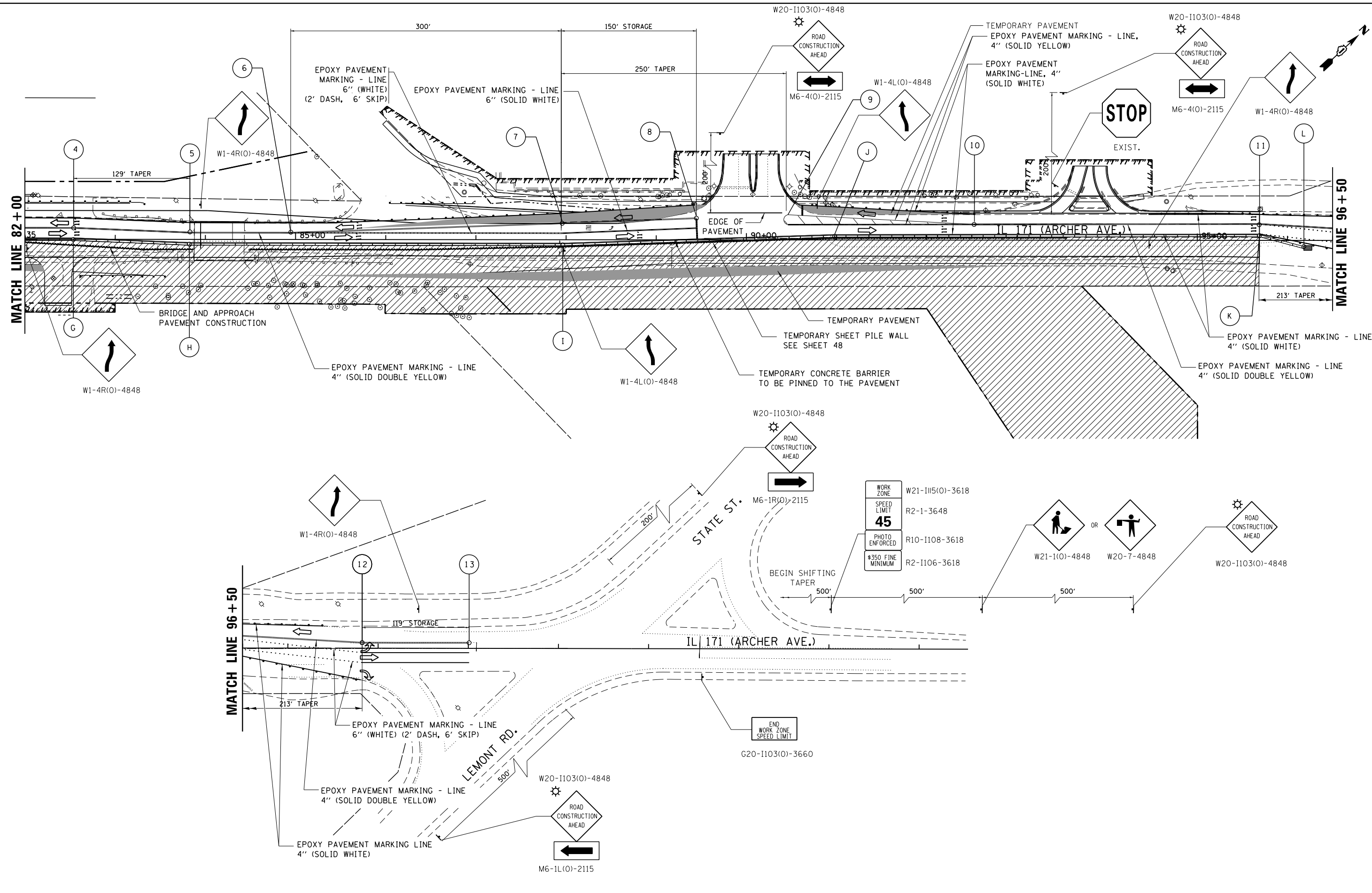
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PLOT DATE = \$DATE\$	DATE - 3/30/2016	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**IL 171 MOT  
STAGES 1A & 1B**

SCALE: 50:1    SHEET 5    OF 17 SHEETS    STA.    TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
577	C-1-B	WILL/COOK	186	36
CONTRACT NO. 60H21				
ILLINOIS FED. AID PROJECT				



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PLOT SCALE = *SCALE*	CHECKED - BL	REVISED -
PLOT DATE = *DATE*	DATE - 3/30/2016	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**IL 171 MOT  
STAGES 1A & 1B**

SCALE: 50:1    SHEET 6    OF 17 SHEETS    STA.    TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
577	C-1-B	WILL/COOK	186	37
CONTRACT NO. 60H21				

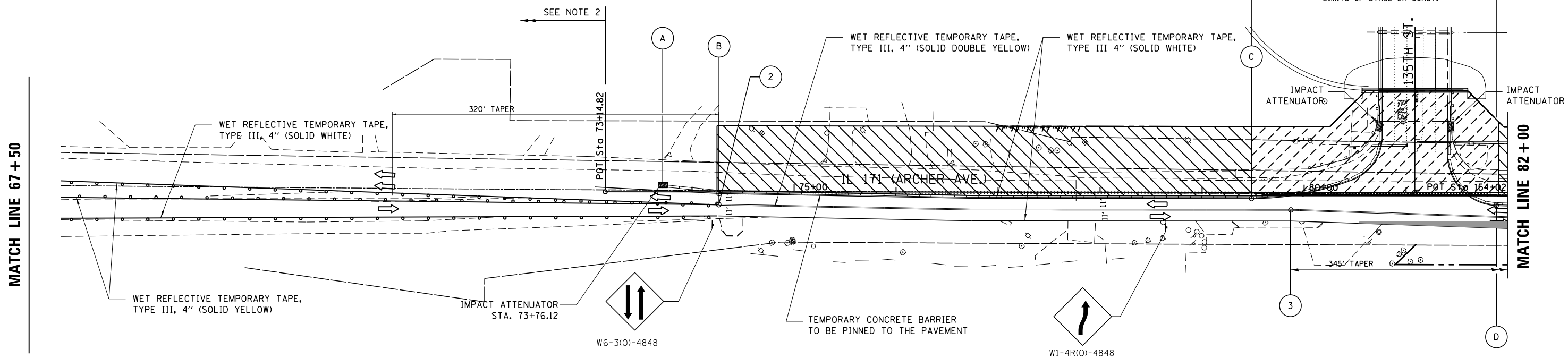
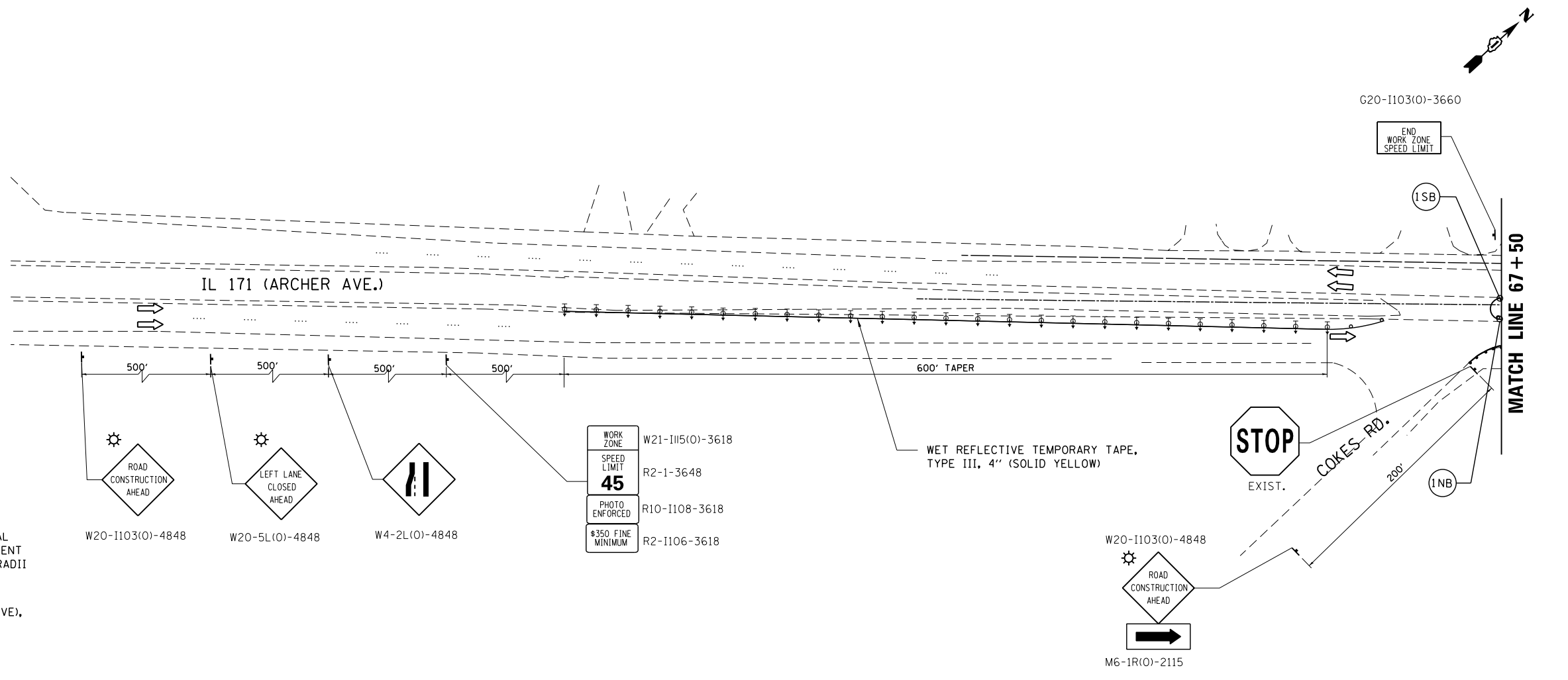
ILLINOIS FED. AID PROJECT

**NOTES:**

1. BARRIER WALL/GUARDRAIL MARKERS AT 25' CTS. SEE STD. 635011 AND 704001.
2. TOPOGRAPHY SHOWN HAS BEEN DERIVED FROM HISTORICAL DRAWINGS OR AERIAL PHOTOGRAPHY, THE CONTRACTOR SHALL VERIFY IN THE FIELD.
3. (INB) TEMPORARY PAVEMENT MARKING - FOR LOCATION SEE SHEET 47 FOR STATION & OFFSET.
4. (A) TEMPORARY CONCRETE BARRIER LOCATION SEE SHEET 47 FOR STATION & OFFSET.

**LEGEND**

- TEMPORARY SHEET PILES
- STAGE 2A WORK AREA
- STAGES 2A & 2B WORK AREA
- TEMPORARY PAVEMENT
- TRAFFIC DIRECTION
- SIGN
- TYPE III BARRICADE
- DRUM OR TYPE II BARRICADE WITH BI-DIRECTIONAL STEADY BURN LIGHT SPACED AT 50' C-C IN TANGENT SECTIONS, AND 20'C-C IN TAPER SECTIONS AND RADII
- TEMPORARY CONCRETE BARRIER
- IMPACT ATTENUATORS, TEMPORARY (NON-REDIRECTIVE), TEST LEVEL 3
- DIRECTION INDICATOR BARRICADE AT 25' C-C IN TAPER



FILE NAME =  
\$FILEL\$

**PARSONS BRINCKERHOFF**  
230 West Monroe Street, Suite 900  
Chicago, IL 60606  
(312) 782-8150 FAX# (312) 782-1684

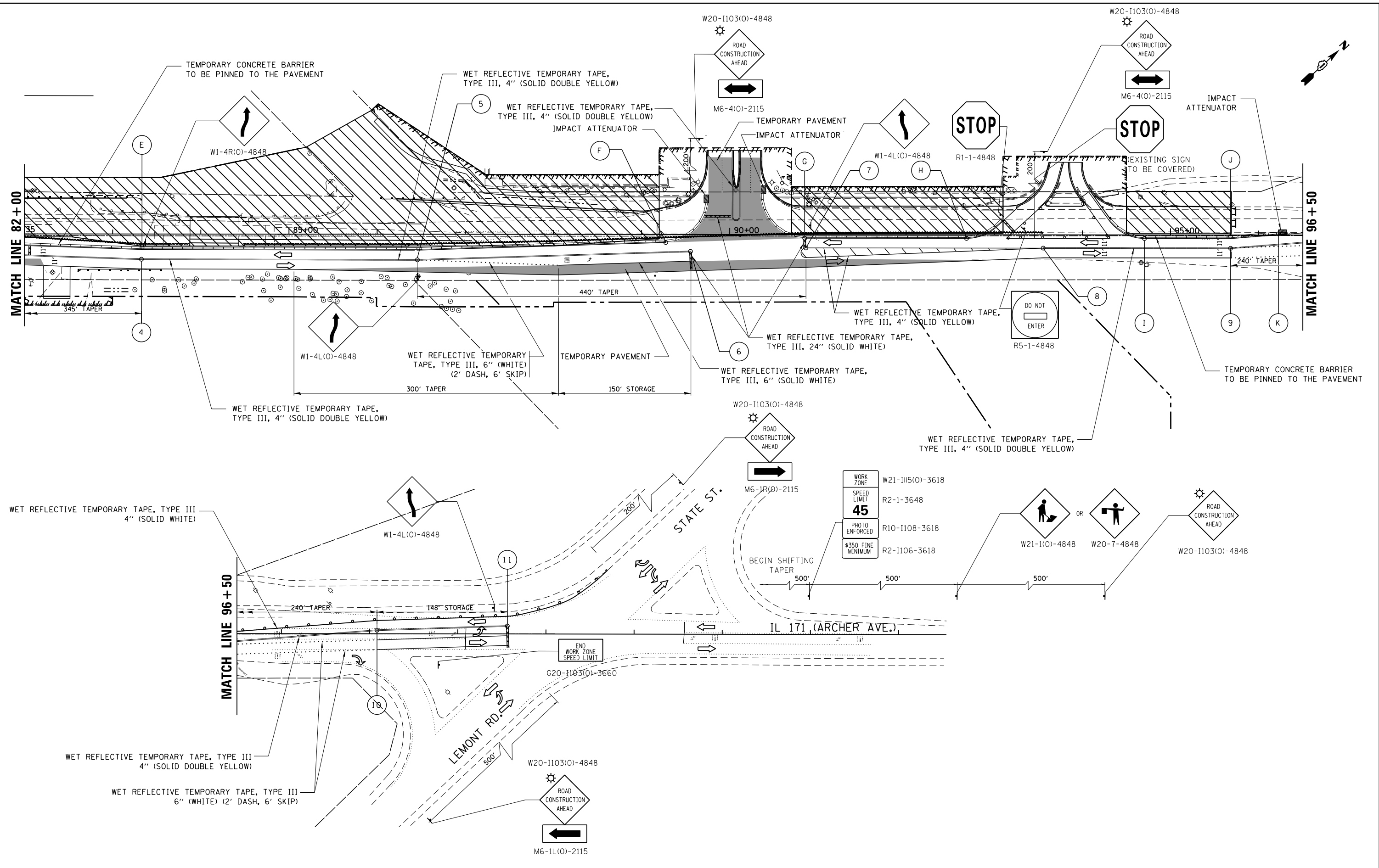
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3/18/2016	DRAWN - JMG (HBM)	REVISED -
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PLOT DATE = \$DATE\$	DATE - 3/30/2016	REVISED -

**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

**IL 171 MOT**  
**STAGES 2A & 2B**

SCALE: 50:1    SHEET 7    OF 17 SHEETS    STA.    TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
577	C-1-B	WILL/COOK	186	38
CONTRACT NO. 60H21				
ILLINOIS FED. AID PROJECT				



FILE NAME =  
\$FILEL\$

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(312) 782-8150 FAX# (312) 782-1684

USER NAME = *USER*	DESIGNED - HJM (HBM)	REVISED -
3/18/2016	DRAWN - JMG (HBM)	REVISED -
PLOT SCALE = *SCALE*	CHECKED - BL	REVISED -
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STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

IL 171 MOT  
STAGES 2A & 2B











SCALE: 50:1	SHEET 8	OF 17 SHEETS	STA.	TO STA.
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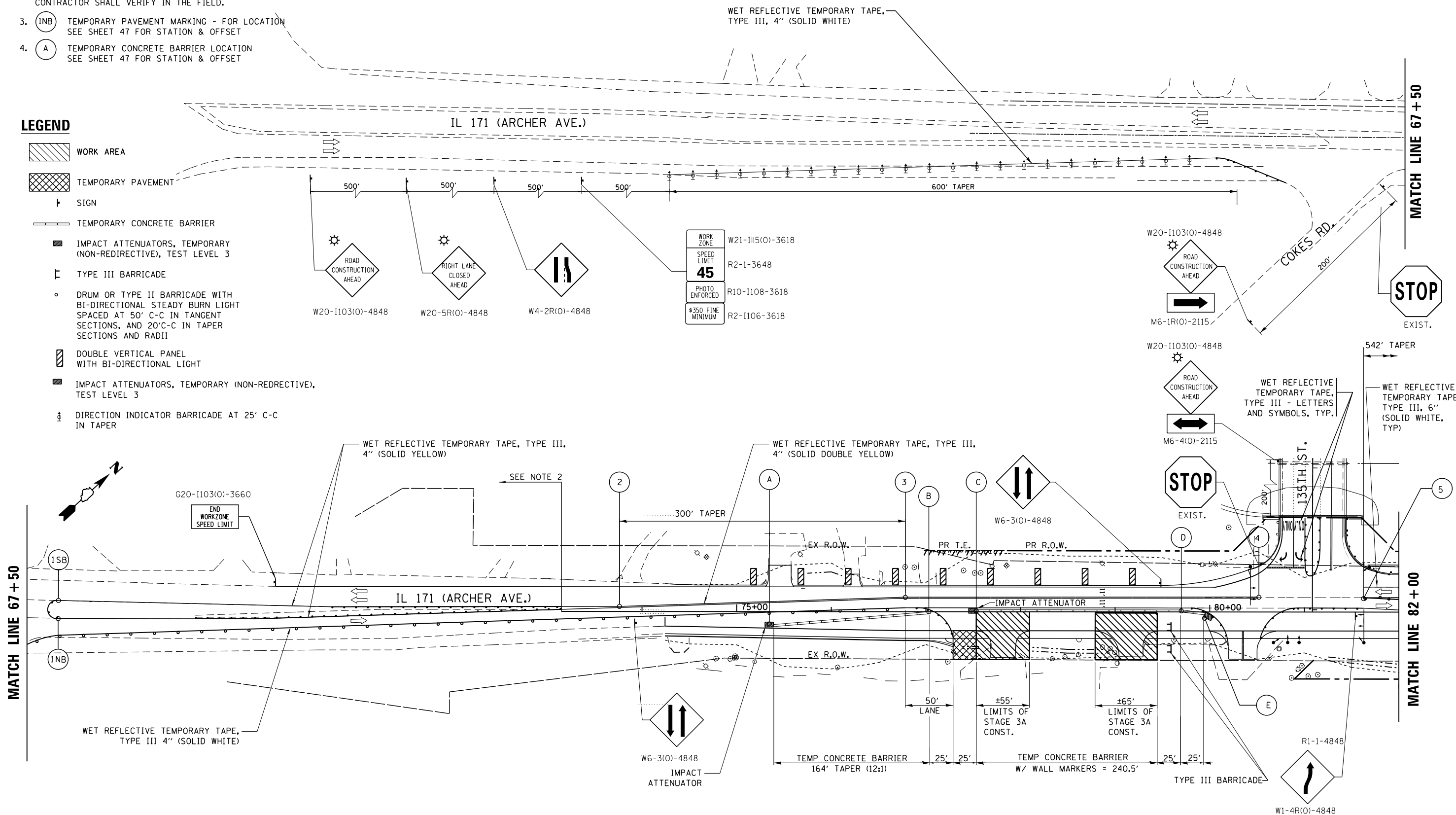
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
577	C-1-B	WILL/COOK	186	39
CONTRACT NO. 60H21				
ILLINOIS FED. AID PROJECT				

**NOTES:**

1. BARRIER WALL/GUARDRAIL MARKERS AT 25' CTS. SEE STD. 635011 AND 704001
2. TOPOGRAPHY SHOWN HAS BEEN DERIVED FROM HISTORICAL DRAWINGS OR AERIAL PHOTOGRAPHY, THE CONTRACTOR SHALL VERIFY IN THE FIELD.
3. (INB) TEMPORARY PAVEMENT MARKING - FOR LOCATION SEE SHEET 47 FOR STATION & OFFSET
4. (A) TEMPORARY CONCRETE BARRIER LOCATION SEE SHEET 47 FOR STATION & OFFSET

**LEGEND**

-  WORK AREA
-  TEMPORARY PAVEMENT
-  SIGN
-  TEMPORARY CONCRETE BARRIER
-  IMPACT ATTENUATORS, TEMPORARY (NON-REDIRECTIVE), TEST LEVEL 3
-  TYPE III BARRICADE
-  DRUM OR TYPE II BARRICADE WITH BI-DIRECTIONAL STEADY BURN LIGHT SPACED AT 50' C-C IN TANGENT SECTIONS, AND 20' C-C IN TAPER SECTIONS AND RADII
-  DOUBLE VERTICAL PANEL WITH BI-DIRECTIONAL LIGHT
-  IMPACT ATTENUATORS, TEMPORARY (NON-REDIRECTIVE), TEST LEVEL 3
-  DIRECTION INDICATOR BARRICADE AT 25' C-C IN TAPER



FILE NAME =  
\$FILEL\$

**PARSONS BRINCKERHOFF**  
230 West Monroe Street, Suite 900  
Chicago, IL 60606  
(312) 782-8150 FAX# (312) 782-1684

USER NAME = *USER*	DESIGNED - HMH (HBM)	REVISED -
3/18/2016	DRAWN - JMG (HBM)	REVISED -
PLOT SCALE = *SCALE*	CHECKED - BL	REVISED -
PLOT DATE = *DATE*	DATE - 3/30/2016	REVISED -

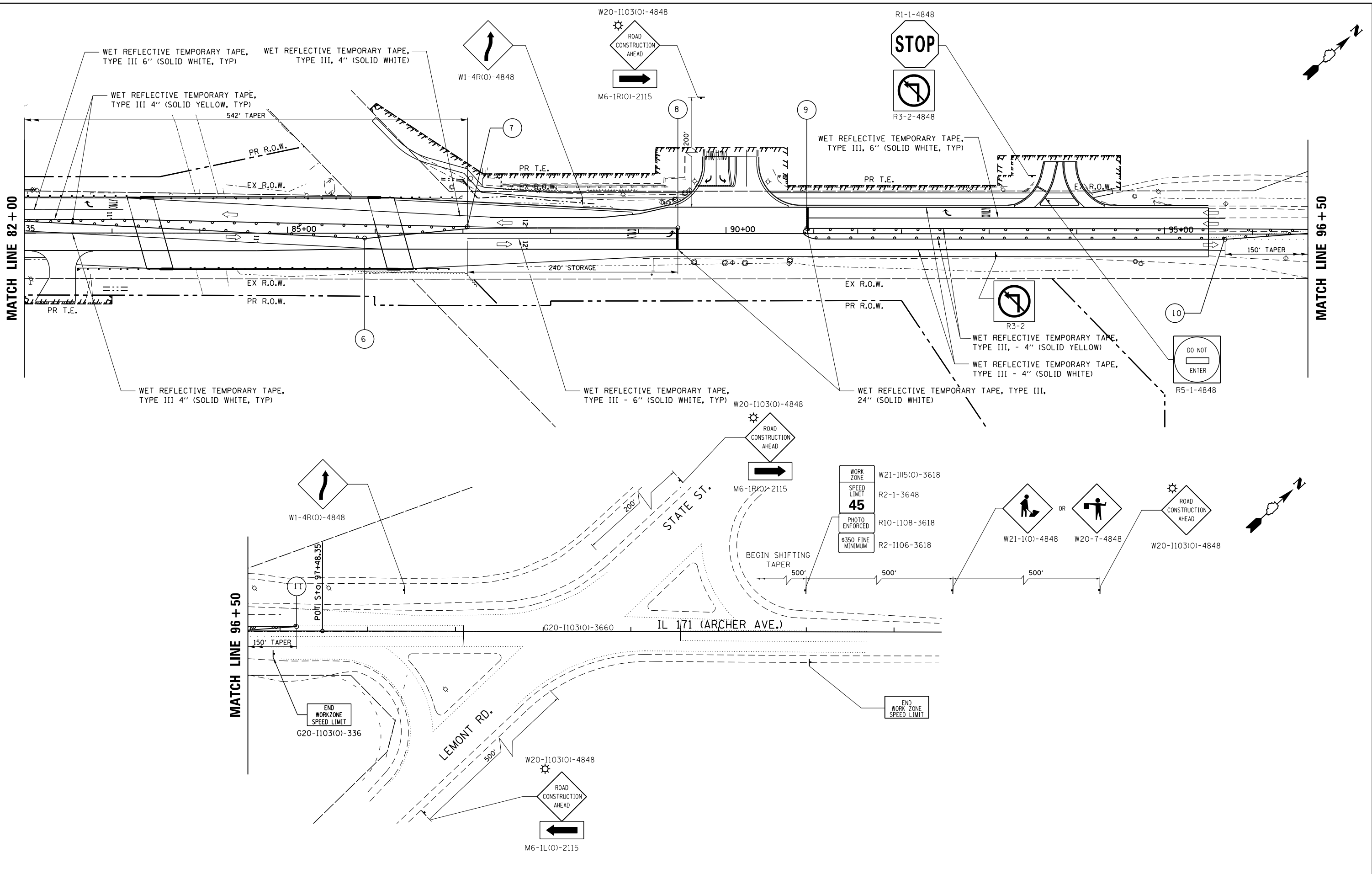
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**IL 171 MOT  
STAGE 3A**

SCALE: 50:1    SHEET 9 OF 17 SHEETS    STA.    TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
577	C-1-B	WILL/COOK	186	40
CONTRACT NO. 60H21				
ILLINOIS FED. AID PROJECT				





FILE NAME =  
\$FILEL\$

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Chicago, IL 60606  
(312) 782-8150 FAX# (312) 782-1684

USER NAME = *USER*	DESIGNED - HMH (HBM)	REVISED -
3/18/2016	DRAWN - JMG (HBM)	REVISED -
PLOT SCALE = *SCALE*	CHECKED - BL	REVISED -
PLOT DATE = *DATE*	DATE - 3/30/2016	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**IL 171 MOT  
STAGE 3A**

SCALE: 50:1      SHEET 10      OF 17 SHEETS      STA.      TO STA.

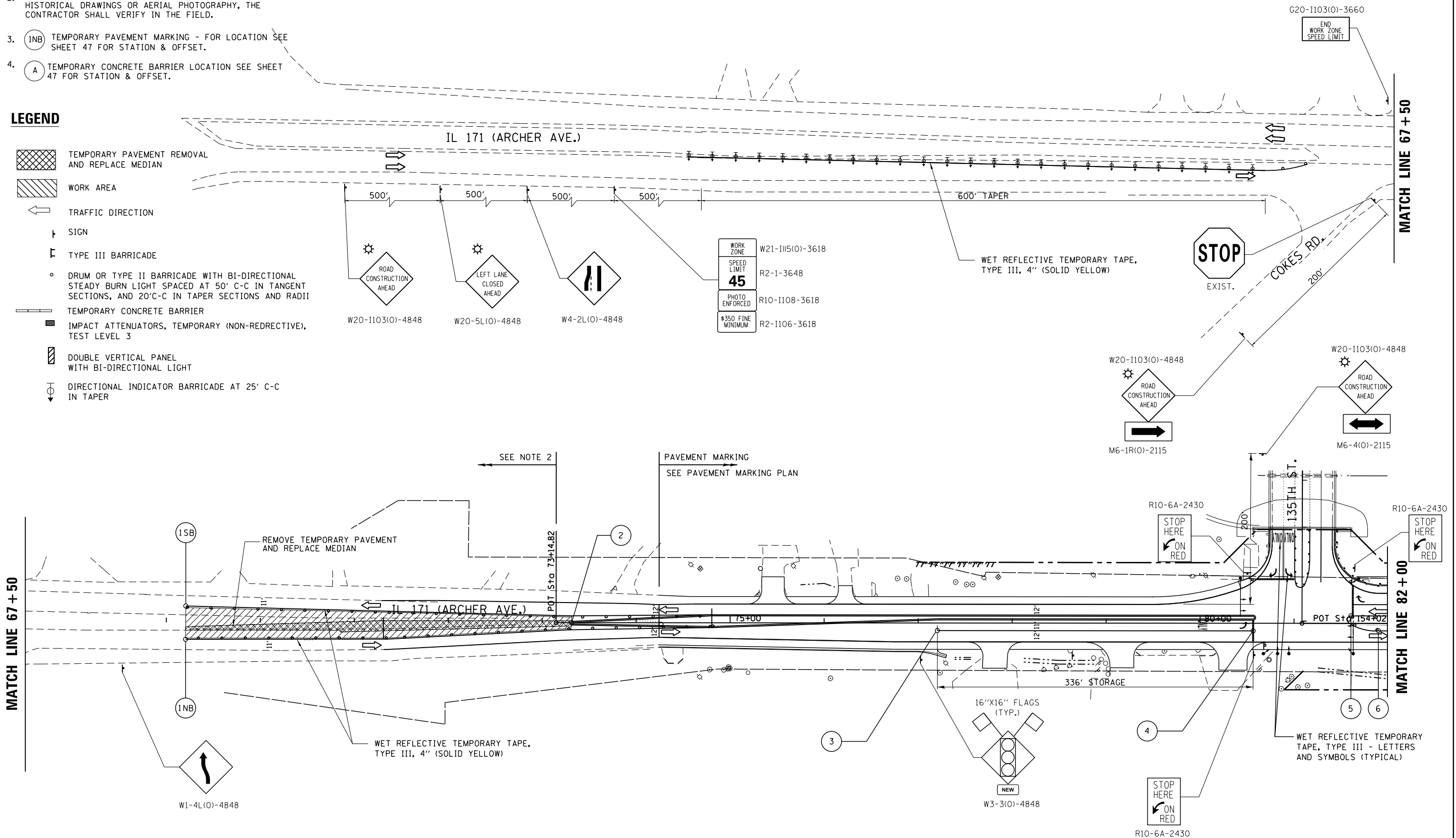
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
577	C-1-B	WILL/COOK	186	41
CONTRACT NO. 60H21			ILLINOIS FED. AID PROJECT	

**NOTES:**

- BARRIER WALL/GUARDRAIL MARKERS AT 25' CTS. SEE STD. 635011 AND 704001.
- TOPOGRAPHY SHOWN HAS BEEN DERIVED FROM HISTORICAL DRAWINGS OR AERIAL PHOTOGRAPHY, THE CONTRACTOR SHALL VERIFY IN THE FIELD.
- (1NB) TEMPORARY PAVEMENT MARKING - FOR LOCATION SEE SHEET 47 FOR STATION & OFFSET.
- (A) TEMPORARY CONCRETE BARRIER LOCATION SEE SHEET 47 FOR STATION & OFFSET.

**LEGEND**

- TEMPORARY PAVEMENT REMOVAL AND REPLACE MEDIAN
- WORK AREA
- TRAFFIC DIRECTION
- SIGN
- TYPE III BARRICADE
- DRUM OR TYPE II BARRICADE WITH BI-DIRECTIONAL STEADY BURN LIGHT SPACED AT 50' C-C IN TANGENT SECTIONS, AND 20'C-C IN TAPER SECTIONS AND RADII
- TEMPORARY CONCRETE BARRIER
- IMPACT ATTENUATORS, TEMPORARY (NON-REDIRECTIVE), TEST LEVEL 3
- DOUBLE VERTICAL PANEL WITH BI-DIRECTIONAL LIGHT
- DIRECTIONAL INDICATOR BARRICADE AT 25' C-C IN TAPER



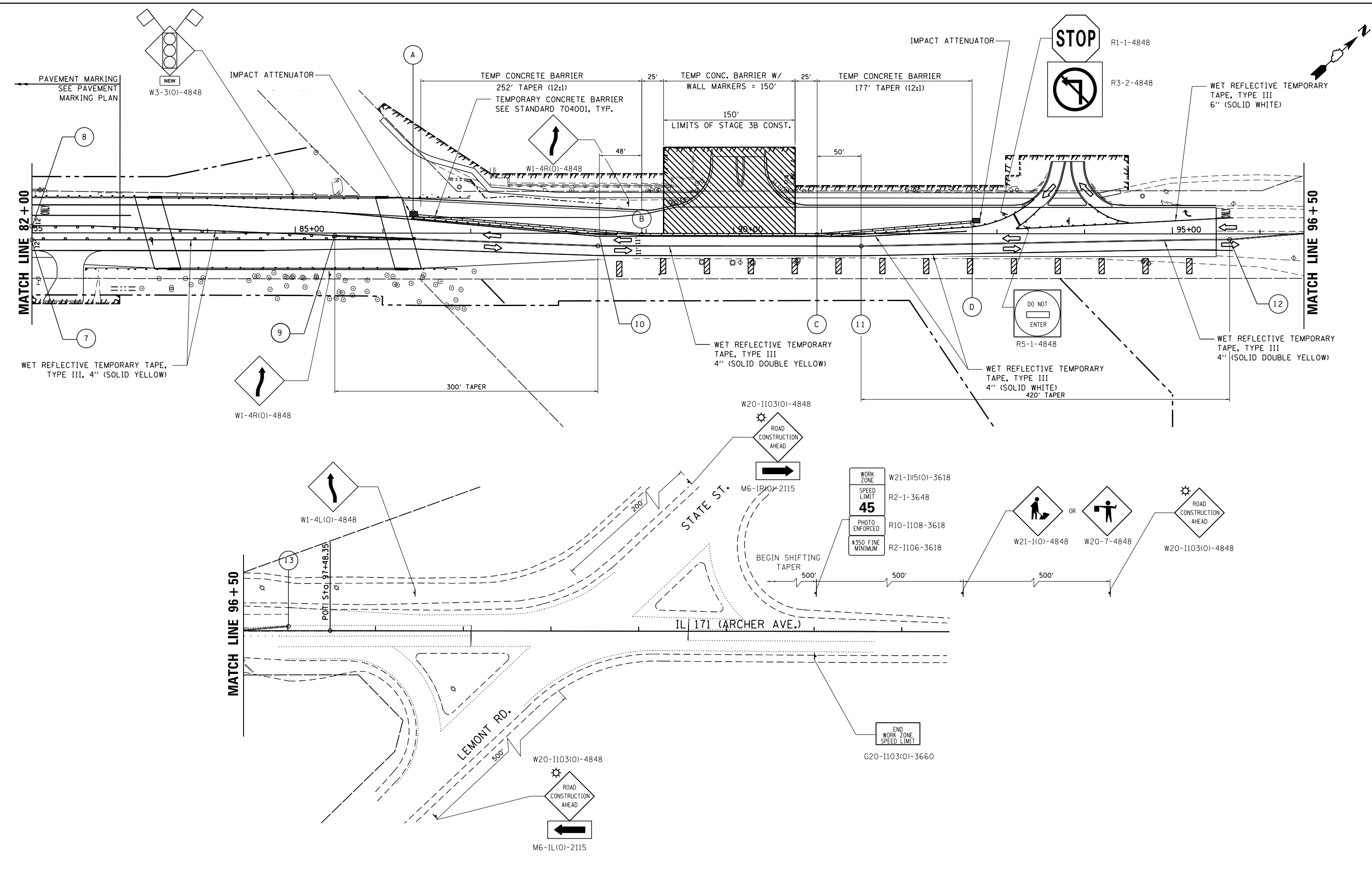
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**PARSONS BRINCKERHOFF**  
 230 West Monroe Street, Suite 900  
 Chicago, IL 60606  
 (312) 782-8150 FAX# (312) 782-1684

USER NAME = \$USER\$	DESIGNED - HMH (HBM)	REVISED -
3/18/2016	DRAWN - JMG (HBM)	REVISED -
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PLOT DATE = \$DATE\$	DATE - 3/30/2016	REVISED -

**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

**IL 171 MOT**  
**STAGE 3B**  
 SCALE: 50:1 SHEET 11 OF 17 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
577	C-1-B	WILL/COOK	186	42
CONTRACT NO. 60H21			ILLINOIS FED. AID PROJECT	



FILE NAME =  
\$FILEL\$

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USER NAME = *USER*	DESIGNED - HMH (HBM)	REVISED -
3/18/2016	DRAWN - JMG (HBM)	REVISED -
PLOT SCALE = *SCALE*	CHECKED - BL	REVISED -
PLOT DATE = *DATE*	DATE - 3/30/2016	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**IL 171 MOT  
STAGE 3B**









SCALE: 50:1      SHEET 12 OF 17 SHEETS      STA.      TO STA.

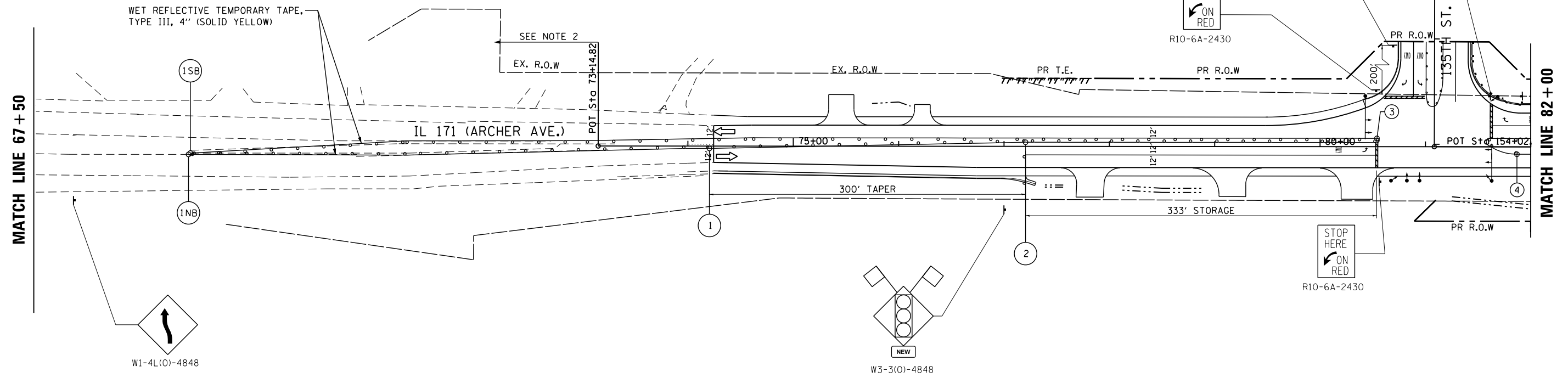
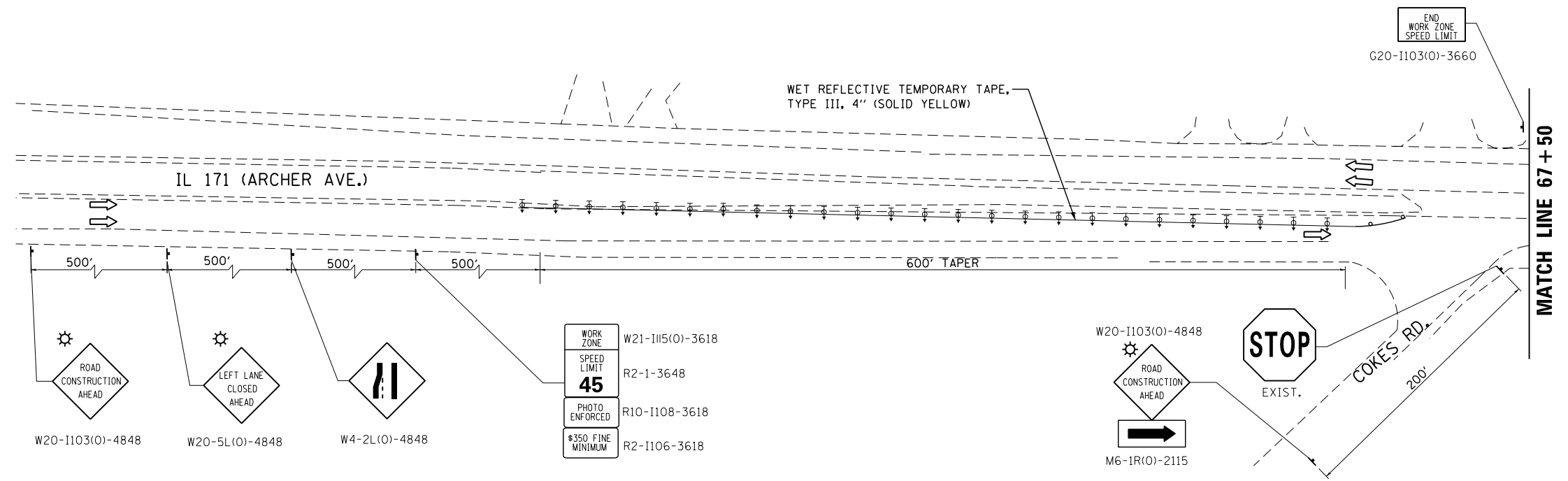
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
577	C-1-B	WILL/COOK	186	43
CONTRACT NO. 60H21				
ILLINOIS FED. AID PROJECT				

**NOTES:**

1. BARRIER WALL/GUARDRAIL MARKERS AT 25' CTS. SEE STD. 635011 AND 704001.
2. TOPOGRAPHY SHOWN HAS BEEN DERIVED FROM HISTORICAL DRAWINGS OR AERIAL PHOTOGRAPHY, THE CONTRACTOR SHALL VERIFY IN THE FIELD.
3. (INB) TEMPORARY PAVEMENT MAKING - FOR LOCATION SEE SHEET 47 FOR STATION & OFFSET.
4. (A) TEMPORARY CONCRETE BARRIER LOCATION SEE SHEET 47 FOR LOCATION & OFFSET.

**LEGEND**

-  WORK AREA
-  TRAFFIC DIRECTION
-  SIGN
-  TYPE III BARRICADE
-  DRUM OR TYPE II BARRICADE WITH BI-DIRECTIONAL STEADY BURN LIGHT SPACED AT 50' C-C IN TANGENT SECTIONS, AND 20'C-C IN TAPER SECTIONS AND RADII
-  IMPACT ATTENUATORS, TEMPORARY (NON-REDRECTIVE), TEST LEVEL 3
-  DOUBLE VERTICAL PANEL WITH BI-DIRECTIONAL LIGHT
-  DIRECTION INDICATOR BARRICADE AT 25' C-C IN TAPER



FILE NAME = \$FILEL\$

**PARSONS BRINCKERHOFF**  
 230 West Monroe Street, Suite 900  
 Chicago, IL 60606  
 (312) 782-8150 FAX# (312) 782-1684

USER NAME = \$USER\$  
 3/18/2016  
 PLOT SCALE = \$SCALE\$  
 PLOT DATE = \$DATE\$

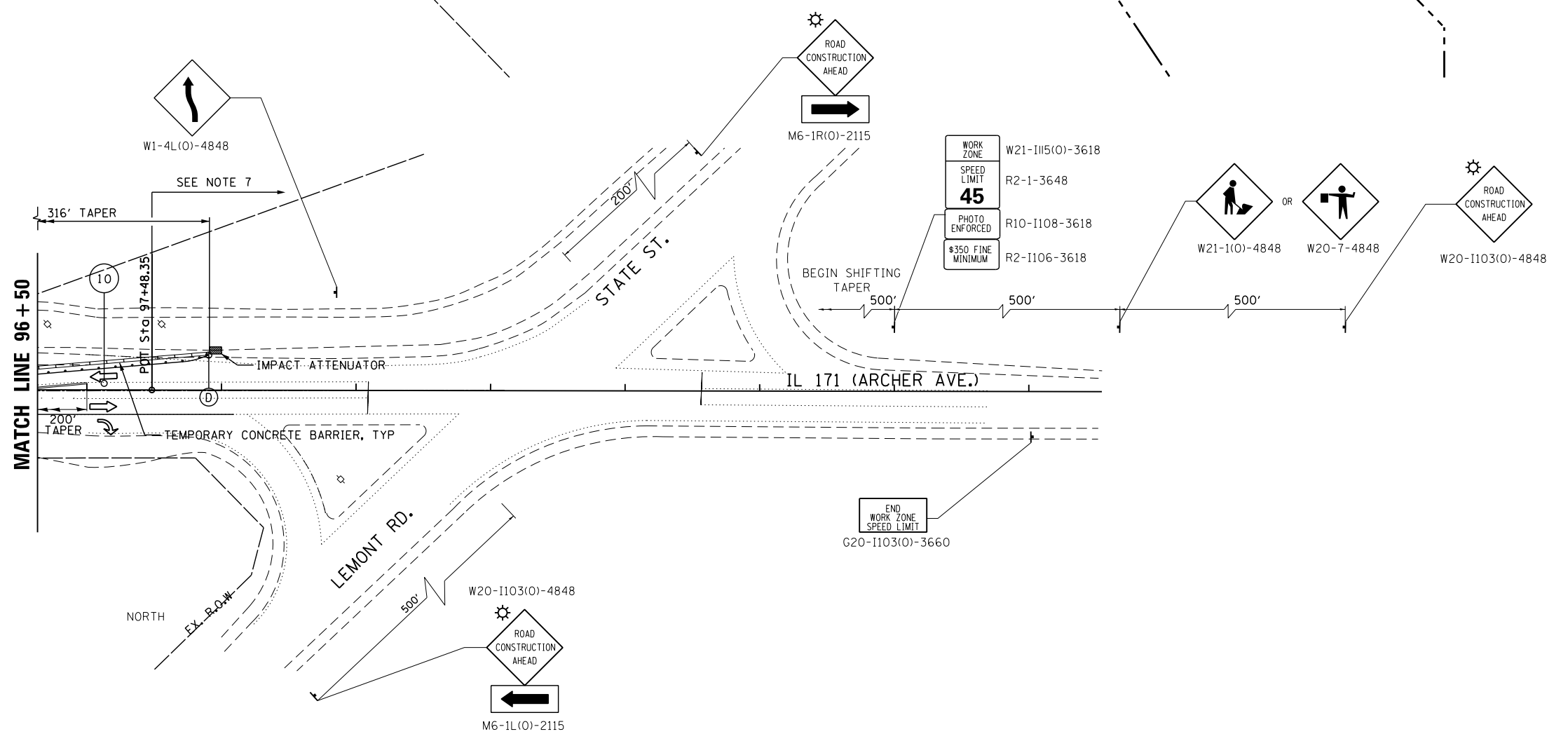
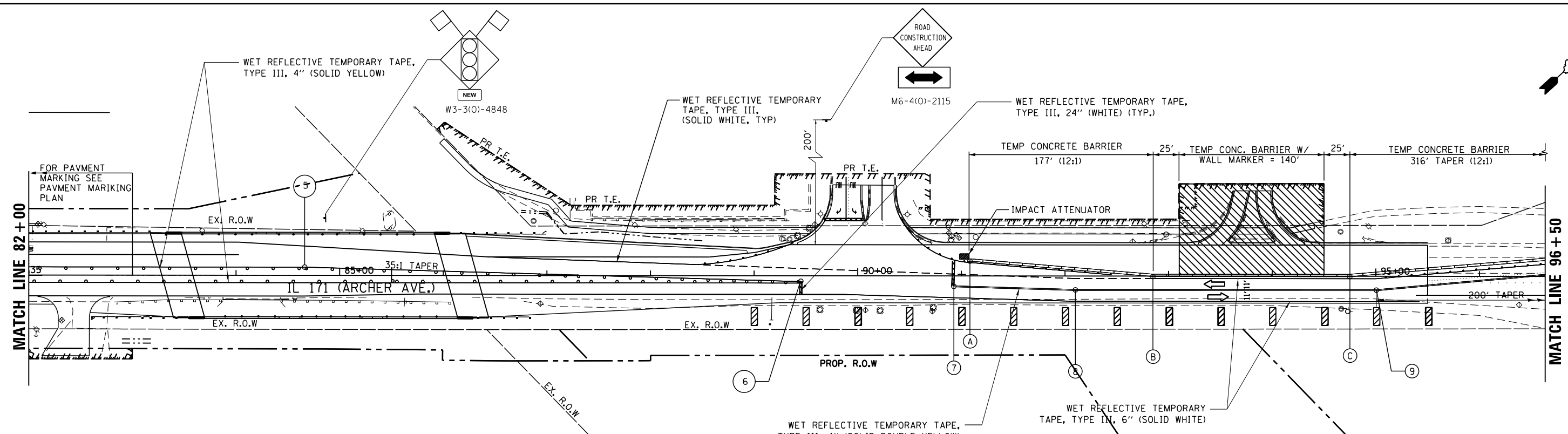
DESIGNED - HMH (HBM)  
 DRAWN - JMG (HBM)  
 CHECKED - BL  
 DATE - 3/30/2016

REVISED -  
 REVISED -  
 REVISED -  
 REVISED -

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**IL 171 MOT  
 STAGE 3C**  
 SCALE: 50:1 SHEET 13 OF 17 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
577	C-1-B	WILL/COOK	186	44
CONTRACT NO. 60H21			ILLINOIS FED. AID PROJECT	



FILE NAME =  
\$FILEL\$

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Chicago, IL 60606  
(312) 782-8150 FAX# (312) 782-1684

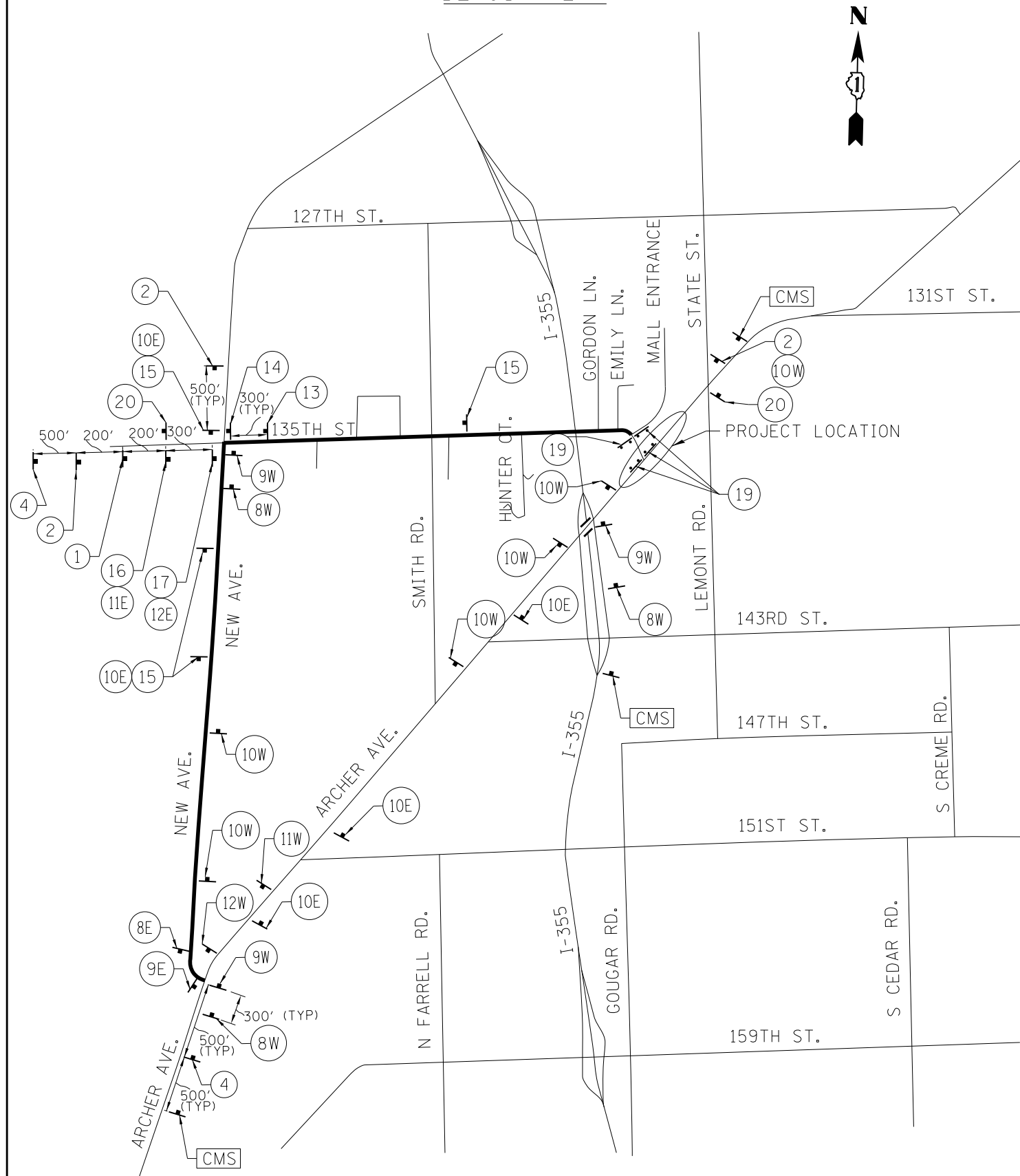
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PLOT SCALE = \$SCALE\$	CHECKED - BL	REVISED -
PLOT DATE = \$DATE\$	DATE - 3/30/2016	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

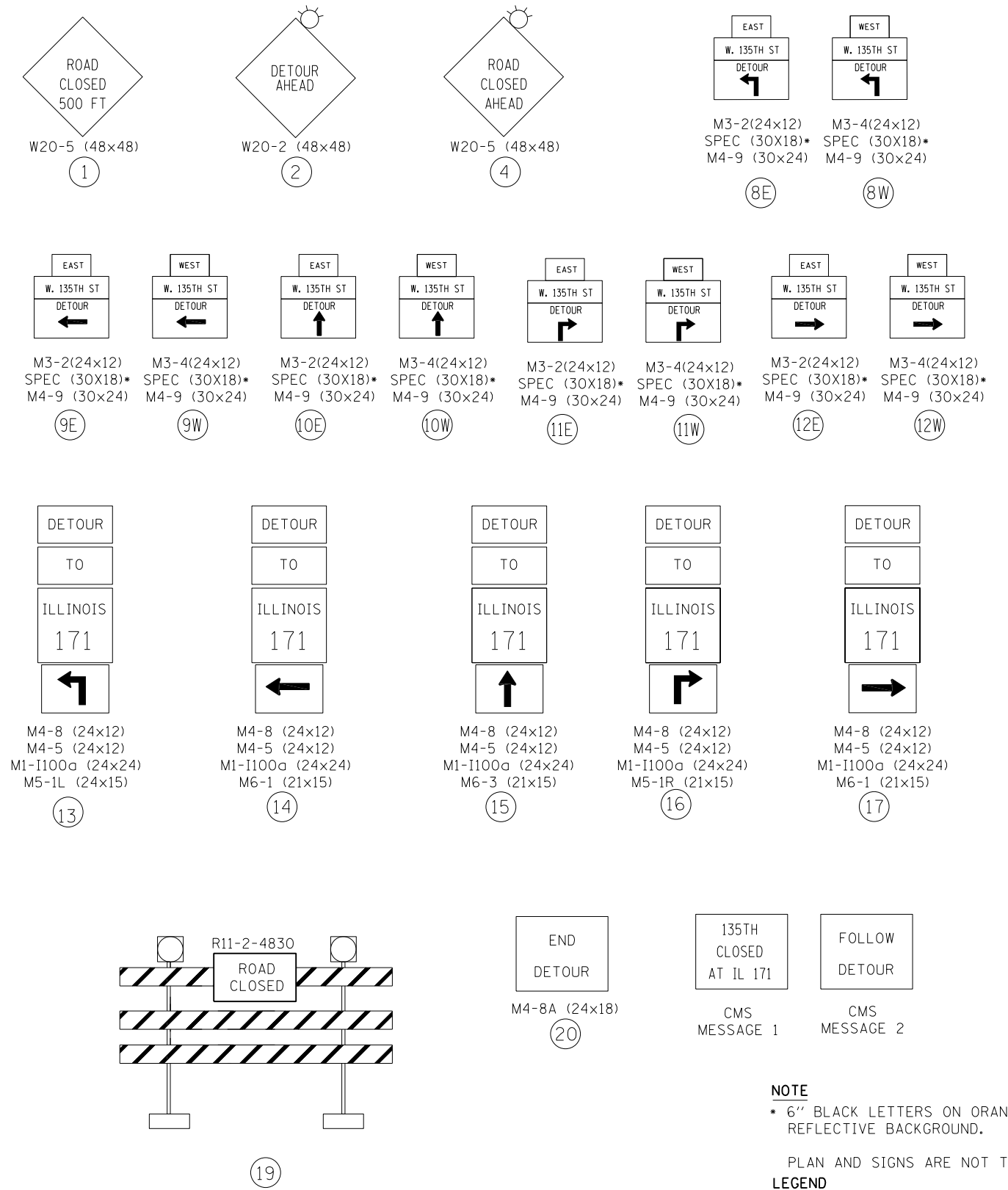
<b>IL 171 MOT STAGE 3C</b>	
SCALE: 50:1	SHEET 14 OF 17 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
577	C-1-B	WILL/COOK	186	45
			CONTRACT NO. 60H21	
ILLINOIS FED. AID PROJECT				

DETOUR PLAN



DETOUR SIGNS GROUND MONTED



**NOTE**  
 \* 6" BLACK LETTERS ON ORANGE REFLECTIVE BACKGROUND.

PLAN AND SIGNS ARE NOT TO SCALE.

**LEGEND**  
 SIGN ON SUPPORT  
 TYPE III BARRICADE

FILEL\$

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 230 West Monroe Street, Suite 900  
 Chicago, IL 60606  
 (312) 782-8150 FAX# (312) 782-1684

3/18/2016	DESIGNED - RT	REVISED -
	CHECKED - AM	REVISED -
	DRAWN - AM	REVISED -
	CHECKED - RT	REVISED -

**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

**135TH STREET DETOUR PLAN**  
**STAGE 2A**

SHEET NO. 15 OF 17 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
577	C-1-B	WILL/COOK	186	46
CONTRACT NO. 60H21				

ILLINOIS FED. AID PROJECT

**TEMPORARY CONCRETE BARRIER**

LOCATION	STAGE	STATION	OFFSET*	COMMENT
A	STAGE 1	73+56.02	2.51 ft RT	Impact Attenuator, Begin Temp. Concrete Barrier
B		74+06.19	4.69 ft LT	End 12:1 Taper
C		77+47.38	0.15 ft RT	Impact Attenuator, End Temp. Conc. Barr. at Commercial Entrance
D		78+17.55	0.19 ft RT	Impact Attenuator, Begin Temp. Conc. Barrier After Commer. Entr.
E		78+80.73	0.19 ft RT	Impact Attenuator, End Temp. Conc. Barr. at Commercial Entrance
F		79+46.95	0.19 ft RT	Impact Attenuator, Begin Temp. Conc. Barrier After Commer. Entr.
G		82+53.79	0.19 ft RT	Barrier Wall Alignment Point
H		83+82.43	5.29 ft RT	Barrier Wall Alignment Point
I		87+96.49	5.62 ft RT	Barrier Wall Alignment Point
J		90+97.80	4.18 ft LT	Barrier Wall Alignment Point
K	95+68.94	5.21 ft LT	Begin 12:1 Taper	
L	96+17.91	7.85 ft RT	Impact Attenuator, End 12:1 Taper	
A	STAGE 2	73+76.12	5.61 ft LT	Impact Attenuator, Begin temp. concrete barrier
B		74+26.48	0.45 ft LT	End 12:1 taper
C		79+48.41	4.06 ft RT	About turning left to proposed 135th street
D		81+88.87	10.79 ft RT	Begin 60:1 taper from proposed 135th to IL 171
E		83+33.16	15.60 ft RT	End 60:1 taper
F		89+27.23	7.12 ft RT	End 60:1 taper
G		90+85.98	2.08 ft RT	
H		92+69.09	4.01 ft RT	
I		94+71.71	2.08 ft RT	
J		95+70.98	2.08 ft RT	Begin 12:1 taper
K	96+22.26	2.43 ft LT	End 12:1 taper	
A	STAGE 3A	75+39.23	14.68 ft RT	Impact Attenuator, Begin temp. concrete barrier
B		77+03.26	1.01 ft RT	End 12:1 taper
C		77+54.24	1.12 ft LT	
D		79+69.52	1.12 ft LT	Begin temp. concrete barrier w. 12:1 taper
E		79+94.93	1.85 ft RT	End 12:1 taper, Impact attenuator
A	STAGE 3B	86+39.95	20.03 ft LT	Impact Attenuator, Begin temp. concrete barrier
B		88+92.37	1.03 ft RT	End 12:1 taper
C		90+94.92	1.12 ft RT	Start temp. concrete barrier w. 12:1 taper
D	92+71.56	13.59 ft LT	End 12:1 taper, Impact attenuator	
A	STAGE 3C	91+08.28	15.61 ft LT	Impact Attenuator, Begin temp. concrete barrier
B		92+84.95	0.76 ft LT	End 12:1 taper
C		94+74.98	0.76 ft LT	Begin temp. concrete barrier with 12:1 taper
D	97+91.07	29.49 ft LT	End 12:1 taper, Impact attenuator	

\*OFFSET ARE GIVEN TO CENTER LINE OF BARRIER

**TEMPORARY PAVEMENT MARKING - LINE 4"**

LOCATION	STAGE	STATION**	OFFSET**	COMMENT
INB	PRESTAGE 1	69+15.48	16.02 ft RT	Northbound, begin solid yellow line
ISB		69+15.62	17.63 ft LT	Southbound, begin solid yellow line
2		75+87.61	2.19 ft RT	Begin solid double yellow line
3	85+46.74	4.43 ft RT	End solid double yellow line	
INB	STAGE 1	67+82.51	6.32 ft RT	Northbound, begin yellow line
ISB		67+81.94	11.18 ft LT	Southbound, begin yellow line
2		70+70.85	3.02 ft LT	
3		74+05.92	17.63 ft LT	
4		82+54.12	12.75 ft LT	
5		83+82.51	7.64 ft LT	
6		84+95.00	7.55 ft LT	
7		87+96.00	7.30 ft LT	
8		89+44.41	13.05 ft LT	End solid double yellow line
9		90+45.88	17.00 ft LT	Begin solid double yellow line
10		92+53.05	17.45 ft LT	
11		95+68.93	18.14 ft LT	
12		97+82.37	6.02 ft LT	
13	99+00.97	6.12 ft LT	End solid double yellow line	
INB	STAGE 2	67+50.00	4.33 ft RT	Northbound, begin solid yellow line
ISB		67+50.00	9.61 ft RT	Southbound, begin solid yellow line
2		74+26.18	12.48 ft RT	Begin solid double yellow line
3		79+86.99	17.00 ft RT	
4		83+32.57	28.53 ft RT	
5		86+45.43	28.94 ft RT	
6		89+55.22	19.10 ft RT	
7		90+86.37	15.00 ft RT	
8		93+55.46	15.00 ft RT	
9		95+68.04	15.00 ft RT	
10		98+08.30	3.99 ft LT	
11	99+56.19	9.02 ft LT	End solid double yellow line	
INB	STAGE 3A	67+82.92	8.01 ft RT	Northbound, begin solid yellow line
ISB		67+82.51	11.15 ft LT	Southbound, begin solid yellow line
2		73+76.18	4.8 ft LT	Begin solid double yellow line
3		76+78.31	14.46 ft LT	
4		79+94.50	15.20 ft LT	End solid double yellow line
5		81+62.52	15.20 ft LT	Begin Pavement Marking
6		85+87.83	6.00 ft RT	
7		87+04.95	7.09 ft LT	
8		89+44.95	6.00 ft LT	
9		90+92.00	6.00 ft LT	
10		95+68.96	6.00 ft RT	
11	97+18.92	4.97 ft LT	End Pavement Marking	
INB	STAGE 3B	71+30.46	2.09 ft LT	Northbound, begin solid yellow line
ISB		71+30.65	2 ft RT	Southbound, begin solid yellow line
2		73+31.25	5.99 ft RT	Begin Pavement Marking
3		77+20.38	8 ft RT	
4		80+56.40	8 ft RT	
5		81+60.41	8 ft LT	
6		81+89.96	8 ft RT	
7		82+00.00	8 ft RT	
8		82+00.00	8 ft LT	
9		85+45.00	3.34 ft RT	Begin solid double yellow line
10		87+45.00	10.60 ft RT	
11		91+45.23	14.25 ft RT	
12		95+65.22	6.36 ft RT	
13	97+00.77	4.96 ft LT	End solid double yellow line	
INB	STAGE 3C	68+96.79	8.24 ft RT	
ISB		68+98.73	6.98 ft RT	
1		74+40.38	1.73 ft RT	
2		77+20.40	4.00 ft LT	
3		80+53.95	8 ft LT	
4		81+86.78	7 ft RT	
5		84+66.13	8 ft LT	
6		89+45.00	5.8 ft RT	
7		90+92.69	10.02 ft RT	Begin solid double yellow line
8		92+09.95	13.36 ft RT	
9	95+00.00	13.47 ft RT		
10	97+00.00	5.00 ft LT	End solid double yellow line	

\* FOR LOCATIONS SEE SHEETS 34 TO 45 PRESTAGE 1, STAGE 1, STAGE 2, STAGE 3A, STAGE 3B, STAGE 3C

\$FILEL\$

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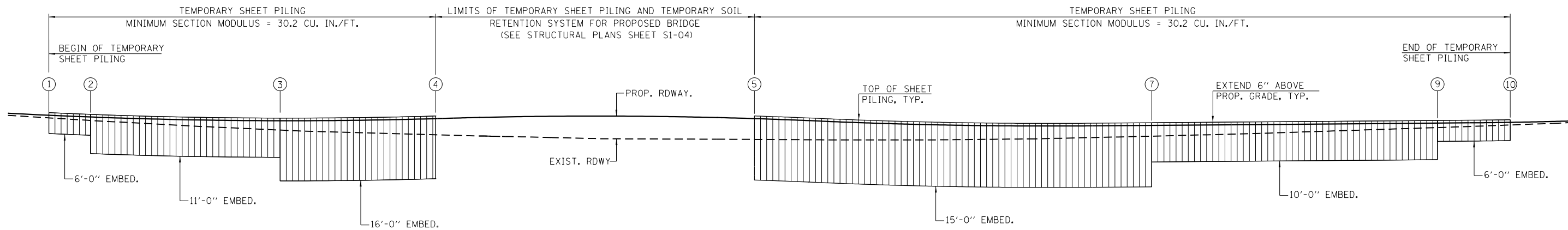
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PLOT DATE = \$DATE\$	DATE - RT	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**LAYOUT SCHEDULE FOR  
TRAFFIC CONTROL ELEMENTS**

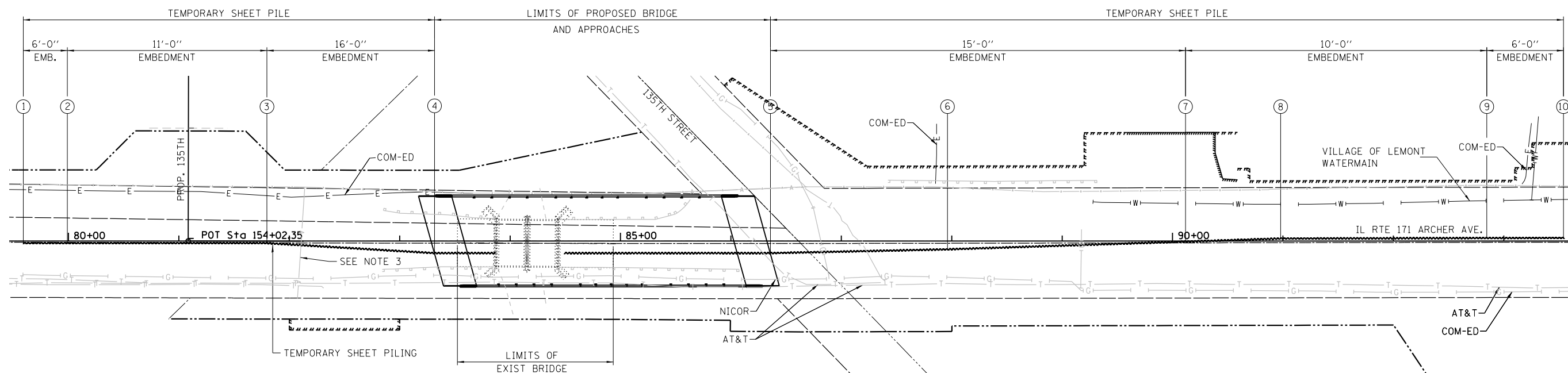
SHEET NO. 16 OF 17 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
577	C-1-B	WILL/COOK	186	47
			CONTRACT NO. 60H21	
ILLINOIS FED. AID PROJECT				



**ELEVATION**

(STA. 79+59.00 TO STA. 93+54.00)



**PLAN**

(STA. 79+59.00 TO STA. 93+54.00)

**NOTES:**

1. SEE SHEET S1-04 FOR ADDITIONAL DETAILS AND ELEVATIONS.
2. INSTALL PRE-STAGE 1 TRAFFIC CONTROL PRIOR TO INSTALLING TEMPORARY SHEET PILING.
3. IF THE CONTRACTOR CHOOSES TO ALTER THE TEMPORARY CANTILEVERED SHEET PILING DESIGN REQUIREMENTS SHOWN ON THE PLANS, A DESIGN SUBMITTAL INCLUDING PLAN DETAILS AND CALCULATIONS WILL BE REQUIRED FOR REVIEW AND ACCEPTANCE BY THE ENGINEER.
4. HARD DRIVING MAY BE ENCOUNTERED DURING THE SHEET PILING INSTALLATION. THE CONTRACTOR SHALL PROVIDE THE APPROPRIATE DRIVING EQUIPMENT FOR THE SOIL CONDITIONS INDICATED ON THE BORING LOGS.

**LEGEND**

- ① LOCATION NO.
- ▬ TEMPORARY SHEET PILING
- 5. THERE ARE EXISTING UTILITIES IN THE AREAS WHERE PROPOSED SHEET PILING WILL BE INSTALLED. CONTRACTOR TO LOCATE ALL EXISTING UTILITIES PER REQUIREMENTS OF THE SPECIAL PROVISIONS. FOR OVERHEAD UTILITIES AND ALL OTHER KNOWN UTILITIES. SEE ROADWAY PLANS, DRAINAGE PLAN & PROFILE.

**TEMPORARY SHEET PILING LAYOUT**

LOCATION NO.	STATION	*OFFSET	TOP ELEVATION	BOTTOM ELEVATION	DESCRIPTION
1	79+59.00	2.44' RT	654.60	647.10	TEMPORARY SHEET PILING
2	79+98.90	2.44' RT	653.93	646.43	TEMPORARY SHEET PILING
2	79+98.90	2.44' RT	653.93	639.43	TEMPORARY SHEET PILING
3	81+79.70	2.44' RT	652.51	638.01	TEMPORARY SHEET PILING
3	81+79.70	2.44' RT	652.51	629.01	TEMPORARY SHEET PILING
4	83+31.49	11.50' RT	653.21	629.71	TEMPORARY SHEET PILING
5	86+35.72	11.50' RT	653.14	628.64	TEMPORARY SHEET PILING

**TEMPORARY SHEET PILING LAYOUT**

LOCATION NO.	STATION	*OFFSET	TOP ELEVATION	BOTTOM ELEVATION	DESCRIPTION
6	87+96.11	8.07' RT	650.95	626.95	TEMPORARY SHEET PILING
7	90+11.70	1.06' RT	650.75	626.75	TEMPORARY SHEET PILING
7	90+11.70	1.06' RT	650.75	636.25	TEMPORARY SHEET PILING
8	90+97.87	1.74' LT	651.01	636.51	TEMPORARY SHEET PILING
9	92+84.60	2.15' LT	651.61	637.11	TEMPORARY SHEET PILING
9	92+84.60	2.15' LT	651.61	644.11	TEMPORARY SHEET PILING
10	93+54.00	2.30' LT	651.90	644.40	TEMPORARY SHEET PILING

\*OFFSETS GIVEN TO RIGHT FACE OF TEMPORARY SHEET PILING LOOKING UPSTATION

3/18/2016

**HBM**  
ENGINEERING GROUP, LLC  
CONSULTING & DESIGN  
INSPECTION & TESTING  
RESEARCH & TESTING

4415 WEST HARRISON ST.  
SUITE 231  
MILLSIDE, IL 60162  
PHONE: (708) 236-0900  
FAX: (708) 236-0901

DESIGNED - JMG, WM  
DRAWN - WM  
CHECKED - JMG  
DATE - 03/18/2016

REVISED -  
REVISED -  
REVISED -  
REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**TEMPORARY SHEET PILING PLAN**

SHEET NO. 1 OF 1 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
577	C-1-B	WILL & COOK	186	48

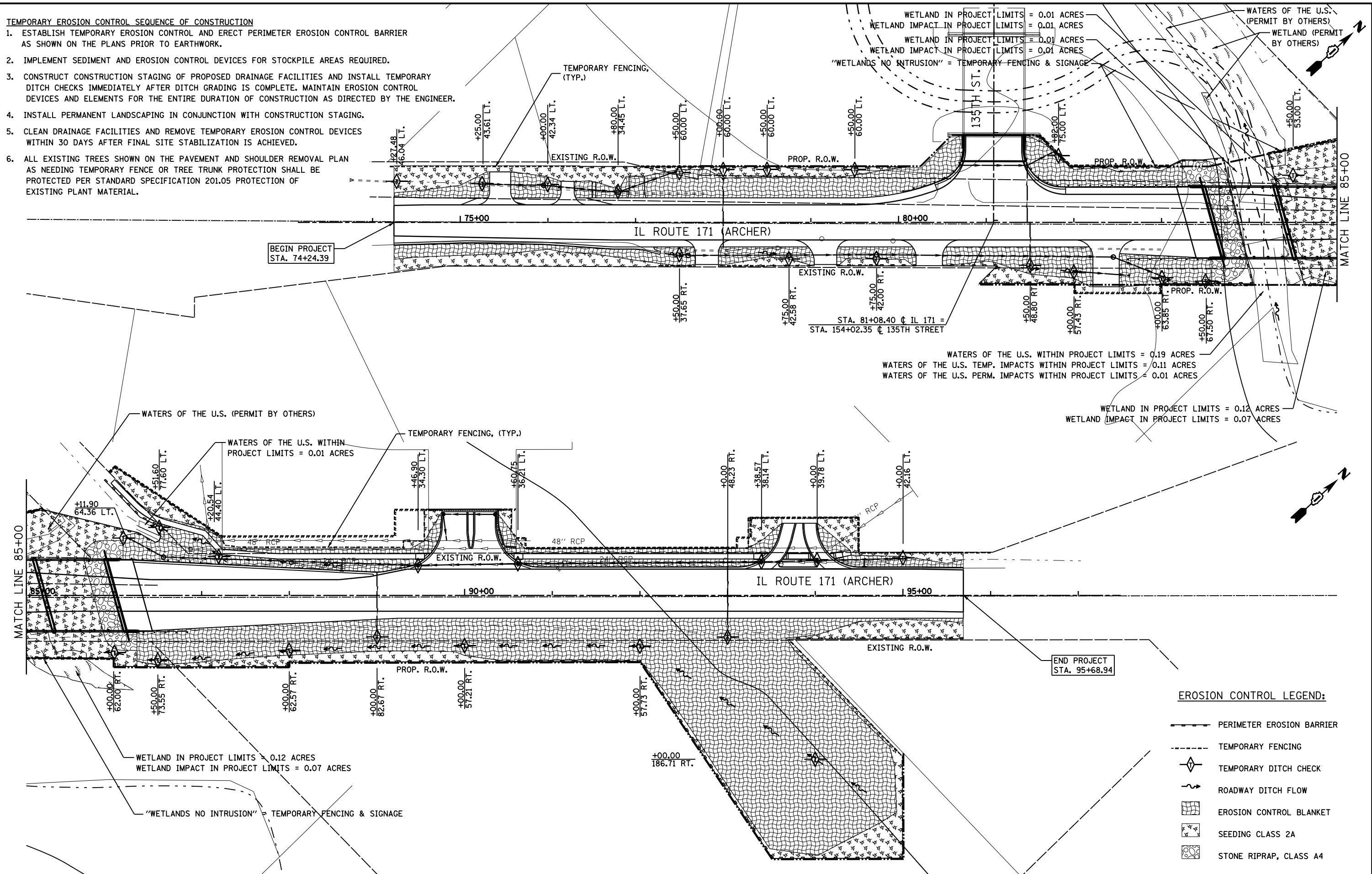
CONTRACT NO. 60H21

ILLINOIS FED. AID PROJECT



**TEMPORARY EROSION CONTROL SEQUENCE OF CONSTRUCTION**

1. ESTABLISH TEMPORARY EROSION CONTROL AND ERECT PERIMETER EROSION CONTROL BARRIER AS SHOWN ON THE PLANS PRIOR TO EARTHWORK.
2. IMPLEMENT SEDIMENT AND EROSION CONTROL DEVICES FOR STOCKPILE AREAS REQUIRED.
3. CONSTRUCT CONSTRUCTION STAGING OF PROPOSED DRAINAGE FACILITIES AND INSTALL TEMPORARY DITCH CHECKS IMMEDIATELY AFTER DITCH GRADING IS COMPLETE. MAINTAIN EROSION CONTROL DEVICES AND ELEMENTS FOR THE ENTIRE DURATION OF CONSTRUCTION AS DIRECTED BY THE ENGINEER.
4. INSTALL PERMANENT LANDSCAPING IN CONJUNCTION WITH CONSTRUCTION STAGING.
5. CLEAN DRAINAGE FACILITIES AND REMOVE TEMPORARY EROSION CONTROL DEVICES WITHIN 30 DAYS AFTER FINAL SITE STABILIZATION IS ACHIEVED.
6. ALL EXISTING TREES SHOWN ON THE PAVEMENT AND SHOULDER REMOVAL PLAN AS NEEDING TEMPORARY FENCE OR TREE TRUNK PROTECTION SHALL BE PROTECTED PER STANDARD SPECIFICATION 201.05 PROTECTION OF EXISTING PLANT MATERIAL.



WETLAND IN PROJECT LIMITS = 0.01 ACRES  
 WETLAND IMPACT IN PROJECT LIMITS = 0.01 ACRES  
 WETLAND IN PROJECT LIMITS = 0.01 ACRES  
 WETLAND IMPACT IN PROJECT LIMITS = 0.01 ACRES  
 "WETLANDS NO INTRUSION" = TEMPORARY FENCING & SIGNAGE

WATERS OF THE U.S. WITHIN PROJECT LIMITS = 0.19 ACRES  
 WATERS OF THE U.S. TEMP. IMPACTS WITHIN PROJECT LIMITS = 0.11 ACRES  
 WATERS OF THE U.S. PERM. IMPACTS WITHIN PROJECT LIMITS = 0.01 ACRES

WETLAND IN PROJECT LIMITS = 0.12 ACRES  
 WETLAND IMPACT IN PROJECT LIMITS = 0.07 ACRES

WATERS OF THE U.S. WITHIN PROJECT LIMITS = 0.01 ACRES

WETLAND IN PROJECT LIMITS = 0.12 ACRES  
 WETLAND IMPACT IN PROJECT LIMITS = 0.07 ACRES

**EROSION CONTROL LEGEND:**

- PERIMETER EROSION BARRIER
- - - TEMPORARY FENCING
- ◇ TEMPORARY DITCH CHECK
- ROADWAY DITCH FLOW
- ▨ EROSION CONTROL BLANKET
- ⊠ SEEDING CLASS 2A
- ⊞ STONE RIPRAP, CLASS A4

**PARSONS BRINCKERHOFF**  
 230 West Monroe St., Suite 900  
 Chicago, IL 60606, (312) 782-8150

USER NAME = clemensc  
 PLOT SCALE = 1" = 50'  
 PLOT DATE = 17-MAR-2016

DESIGNED - CJC  
 DRAWN - CJC  
 CHECKED - RFT  
 DATE - 3/18/2016

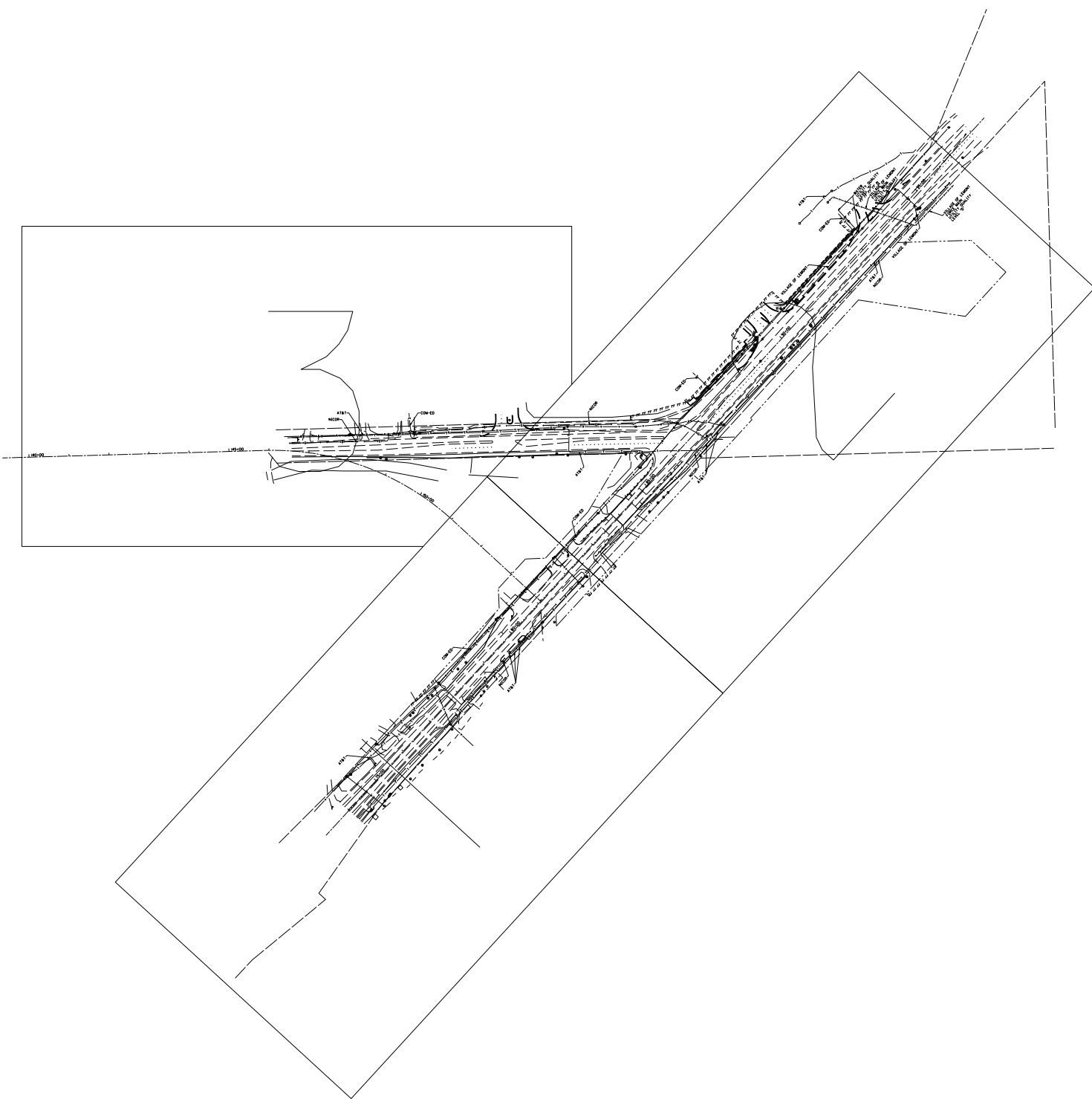
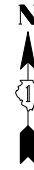
REVISED -  
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STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

**EROSION AND SEDIMENT CONTROL DETAILS**

SCALE: 1" = 50' SHEET NO. 1 OF 1 SHEETS STA. 74+24.39 TO STA. 95+68.94

F.A.P. RTE. 577	SECTION C-1-B	COUNTY WILL/COOK	TOTAL SHEETS 186	SHEET NO. 49
CONTRACT NO. 60H21			ILLINOIS FED. AID PROJECT	



——— A ——— A ———	AERIAL
----- O -----	UNKNOWN
——— O ——— O ———	OIL
——— CTV ——— CTV ——— CTV ———	CABLE TV
——— T ——— T ——— T ———	TELEPHONE
——— G ——— G ——— G ———	GAS
——— E ——— E ——— E ———	ELECTRIC
——— W ——— W ——— W ———	WATER
——— FM ——— FM ——— FM ———	FORCE MAIN
——— FO ——— FO ——— FO ———	FIBER OPTIC
⊙	END OF INFORMATION
⊕	TBE TEST HOLE

UTILITY OWNERS	
AT&T = TELEPHONE	
COM-ED = ELECTRIC	
NICOR = GAS	
VILLAGE OF LEMONT = WATER	

Utilities shown on these plans as depicted in the legend have been investigated by Cardno TBE in accordance with SUE Industry Standards. All other information shown has been provided to Cardno TBE by others. Cardno TBE's QL"B" SUE field investigation was performed 3/02/13 through 3/18/13. Changes to utilities after 3/18/13 may have been made and therefore may result in variances from this plan. Consideration should be given to updating this plan if deemed advisable prior to final design and construction.

ALL UTILITIES SHOWN QUALITY LEVEL "B" UNLESS NOTED OTHERWISE.



TBE Job No. IL09510522  
SUE Plan Page# Cover

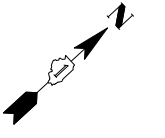
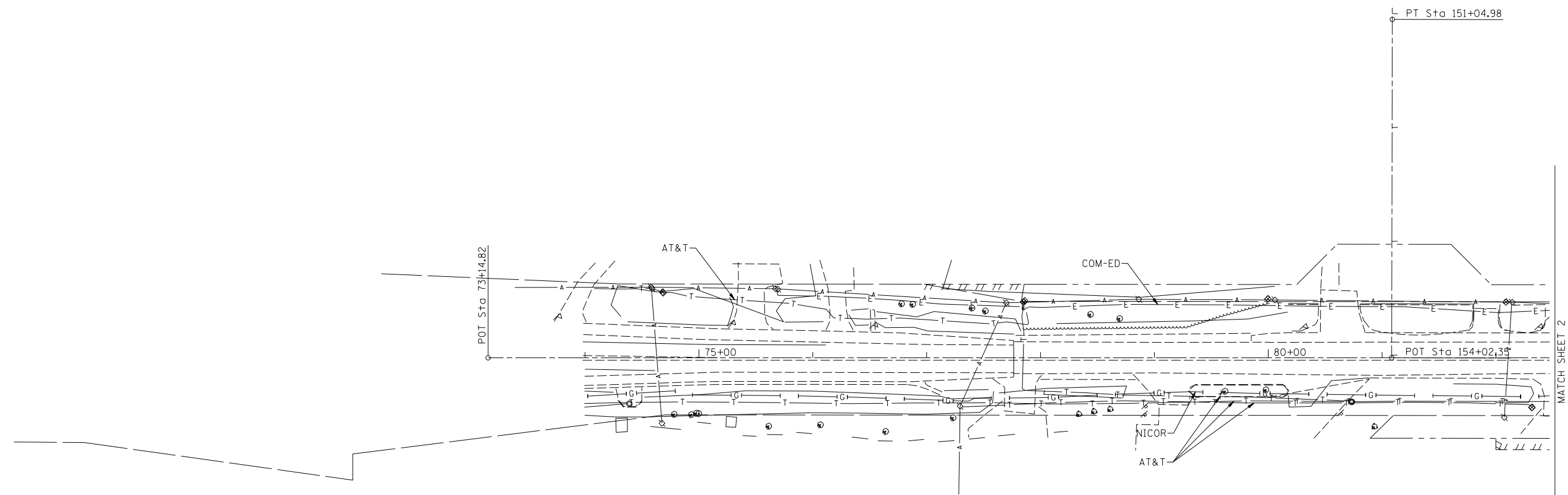
Utility Quality Level "A": Visually Verified Test Hole  
Utility Quality Level "B": Designating/non Visually Verified Test Hole  
Utility Quality Level "C": Research with Survey  
Utility Quality Level "D": Records Research

DESIGNED	ER	REVISED
DRAWN	SRK	REVISED
CHECKED	KFS	REVISED
DATE	3/26/13	REVISED

**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

**IL 171 over Long Run Creek**  
**Lemont, Illinois**

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	C-I-B	Will/Cook	186	50
Contract No. 60421				
FED. ROAD DIST. NO.   ILLINOIS   IDOT Project No.				



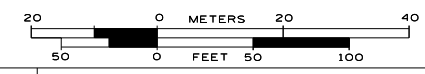
MATCH SHEET 2

— A — A —	AERIAL
- - - - -	UNKNOWN
— O — O —	OIL
— CTV — CTV —	CABLE TV
— T — T —	TELEPHONE
— G — G —	GAS
— E — E —	ELECTRIC
— W — W —	WATER
— FM — FM —	FORCE MAIN
— FO — FO —	FIBER OPTIC
— S —	END OF INFORMATION
— T —	TBE TEST HOLE

UTILITY OWNERS	
AT&T = TELEPHONE	
COM-ED = ELECTRIC	
NICOR = GAS	
VILLAGE OF LEMONT = WATER	

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ALL UTILITIES SHOWN QUALITY LEVEL "B" UNLESS NOTED OTHERWISE.



TBE Job No. IL09510522  
SUE Plan Page: 1 of 3

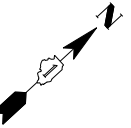
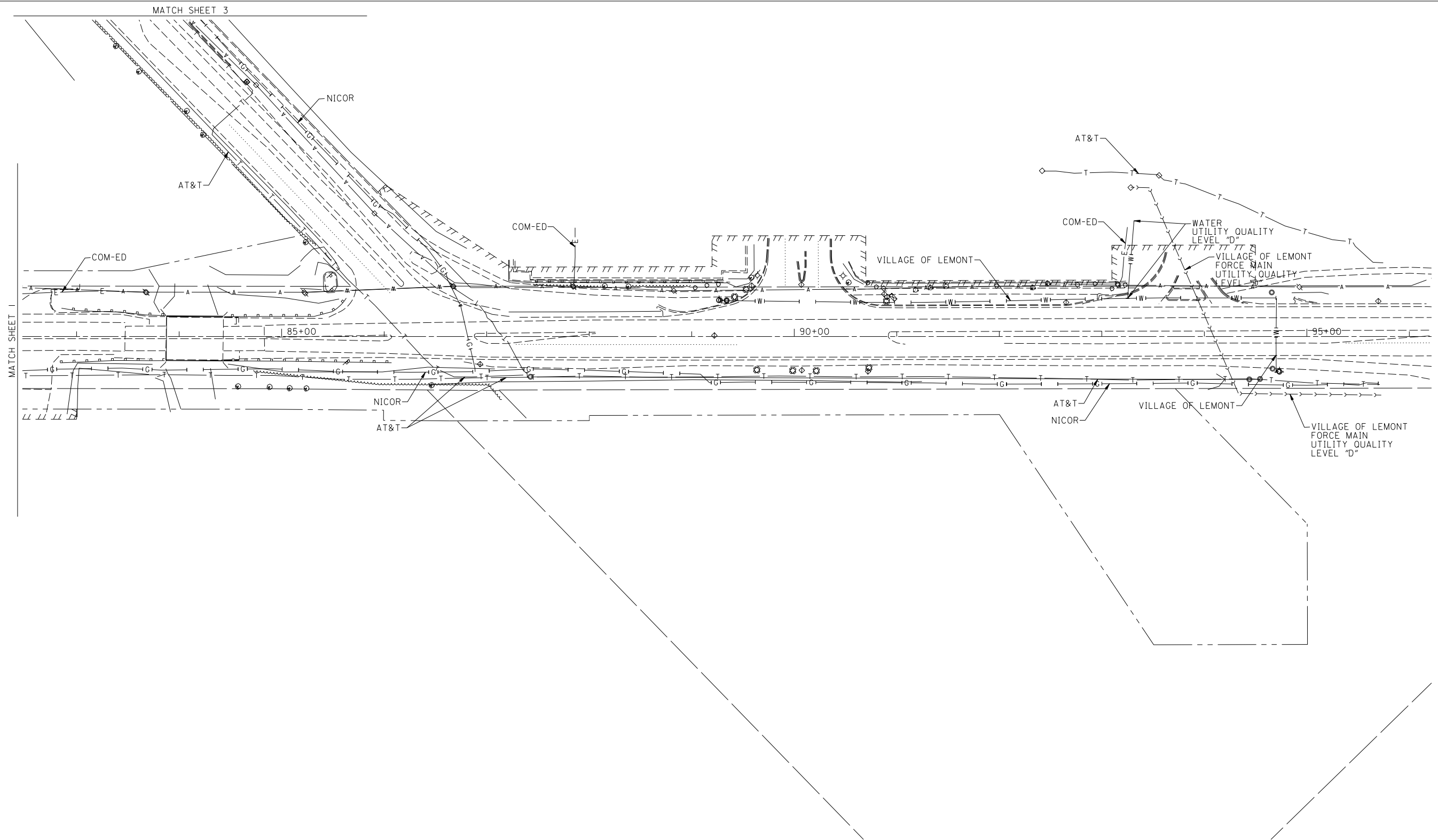
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 Utility Quality Level "B" : Designating/non Visually Verified Test Hole  
 Utility Quality Level "C" : Research with Survey  
 Utility Quality Level "D" : Records Research

DESIGNED	ER	REVISED
DRAWN	SRK	REVISED
CHECKED	KFS	REVISED
DATE	3/26/13	REVISED

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**IL 171 over Long Run Creek  
Lemont, Illinois**

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	C-1-B	Will/Cook	186	51
Contract No. 60H21				
FED. ROAD DIST. NO. - ILLINOIS IDOT Project No.				

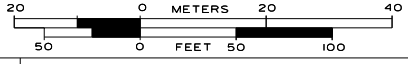


—A—	AERIAL
- - -	UNKNOWN
—O—	OIL
—CTV—	CABLE TV
—T—	TELEPHONE
—G—	GAS
—E—	ELECTRIC
—W—	WATER
—FM—	FORCE MAIN
—FO—	FIBER OPTIC
⊥	END OF INFORMATION
⊙	TBE TEST HOLE

UTILITY OWNERS	
AT&T	= TELEPHONE
COM-ED	= ELECTRIC
NICOR	= GAS
VILLAGE OF LEMONT	= WATER

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ALL UTILITIES SHOWN QUALITY LEVEL "B" UNLESS NOTED OTHERWISE.



TBE Job No. IL09510522  
SUE Plan Page: 2 of 3

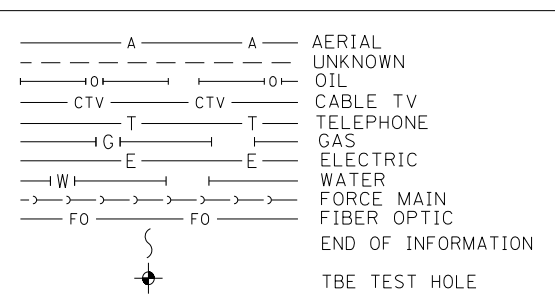
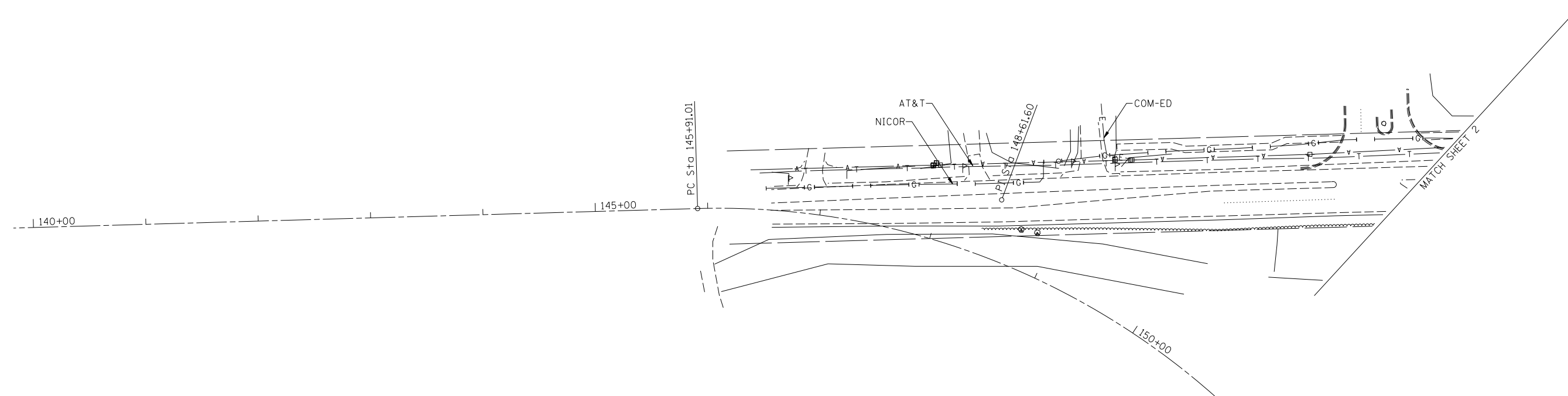
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 Utility Quality Level "B": Designating/non Visually Verified Test Hole  
 Utility Quality Level "C": Research with Survey  
 Utility Quality Level "D": Records Research

DESIGNED	ER	REVISED	
DRAWN	SRK	REVISED	
CHECKED	KFS	REVISED	
DATE	3/26/13	REVISED	

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**IL 171 over Long Run Creek  
Lemont, Illinois**

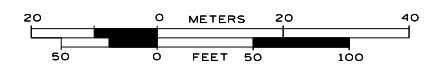
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	C-1-B	Will/Cook	186	52
			Contract No. 60H21	
FED. ROAD DIST. NO. - ILLINOIS IDOT Project No.				



UTILITY OWNERS		
AT&T = TELEPHONE		
COM-ED = ELECTRIC		
NICOR = GAS		
VILLAGE OF LEMONT = WATER		

Utilities shown on these plans as depicted in the legend have been investigated by Cardno TBE in accordance with SUE Industry Standards. All other information shown has been provided to Cardno TBE by others. Cardno TBE's QL"B" SUE field investigation was performed 3/02/13 through 3/18/13. Changes to utilities after 3/18/13 may have been made and therefore may result in variances from this plan. Consideration should be given to updating this plan if deemed advisable prior to final design and construction.

ALL UTILITIES SHOWN QUALITY LEVEL "B" UNLESS NOTED OTHERWISE.



TBE Job No. IL09510522  
SUE Plan Page: 3 of 3

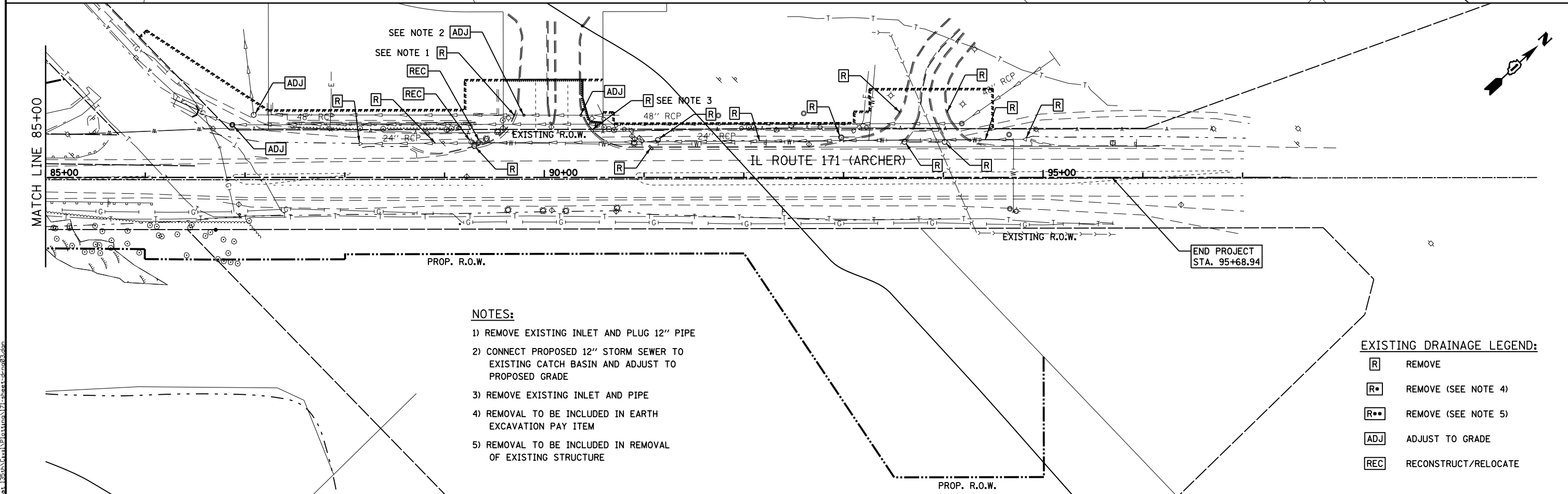
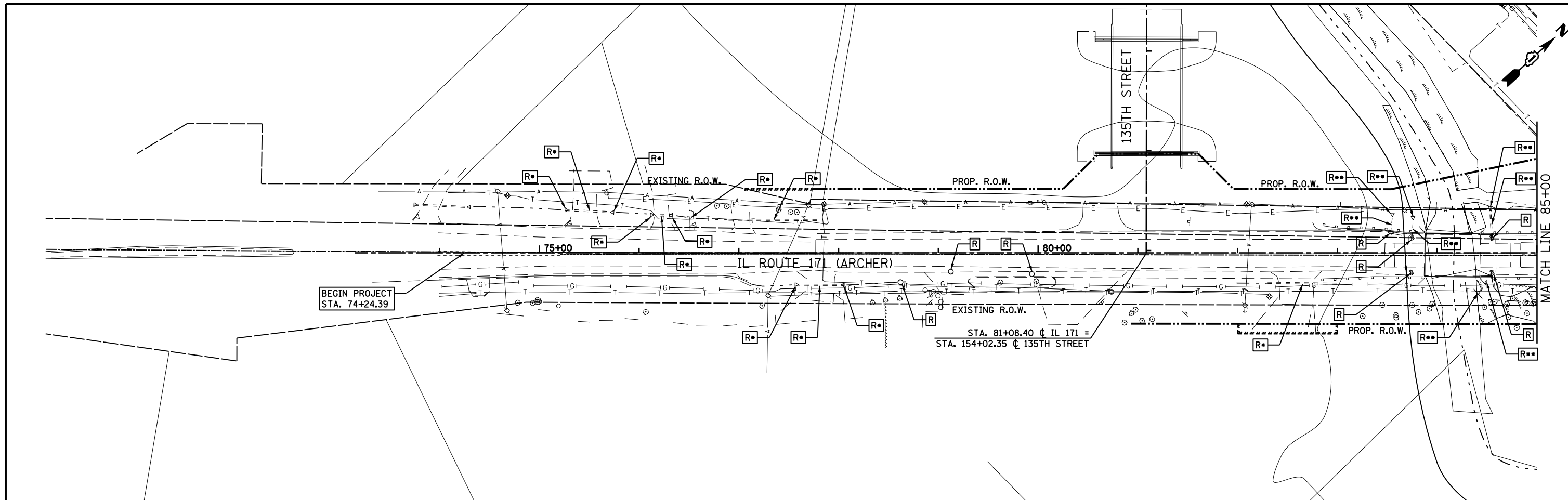
Utility Quality Level "A" : Visually Verified Test Hole  
Utility Quality Level "B" : Designating/non Visually Verified Test Hole  
Utility Quality Level "C" : Research with Survey  
Utility Quality Level "D" : Records Research

DESIGNED	ER	REVISED
DRAWN	SRK	REVISED
CHECKED	KFS	REVISED
DATE	3/26/13	REVISED

**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

**IL 171 over Long Run Creek**  
**Lemont, Illinois**

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	C-1-B	Will/Cook	186	53
Contract No. 60H21				
FED. ROAD DIST. NO. - [ILLINOIS] IDOT Project No.				



- NOTES:**
- 1) REMOVE EXISTING INLET AND PLUG 12" PIPE
  - 2) CONNECT PROPOSED 12" STORM SEWER TO EXISTING CATCH BASIN AND ADJUST TO PROPOSED GRADE
  - 3) REMOVE EXISTING INLET AND PIPE
  - 4) REMOVAL TO BE INCLUDED IN EARTH EXCAVATION PAY ITEM
  - 5) REMOVAL TO BE INCLUDED IN REMOVAL OF EXISTING STRUCTURE

- EXISTING DRAINAGE LEGEND:**
- [R] REMOVE
  - [R•] REMOVE (SEE NOTE 4)
  - [R••] REMOVE (SEE NOTE 5)
  - [ADJ] ADJUST TO GRADE
  - [REC] RECONSTRUCT/RELOCATE

**PARSONS BRINCKERHOFF**  
 230 West Monroe St., Suite 900  
 Chicago, IL 60606, (312) 782-8150

USER NAME = clemonsc	DESIGNED - CJC	REVISED -
PLOT SCALE = 1" = 50'	DRAWN - CJC	REVISED -
PLOT DATE = 30-MAR-2016	CHECKED - RFT	REVISED -
	DATE - 3/30/2016	REVISED -

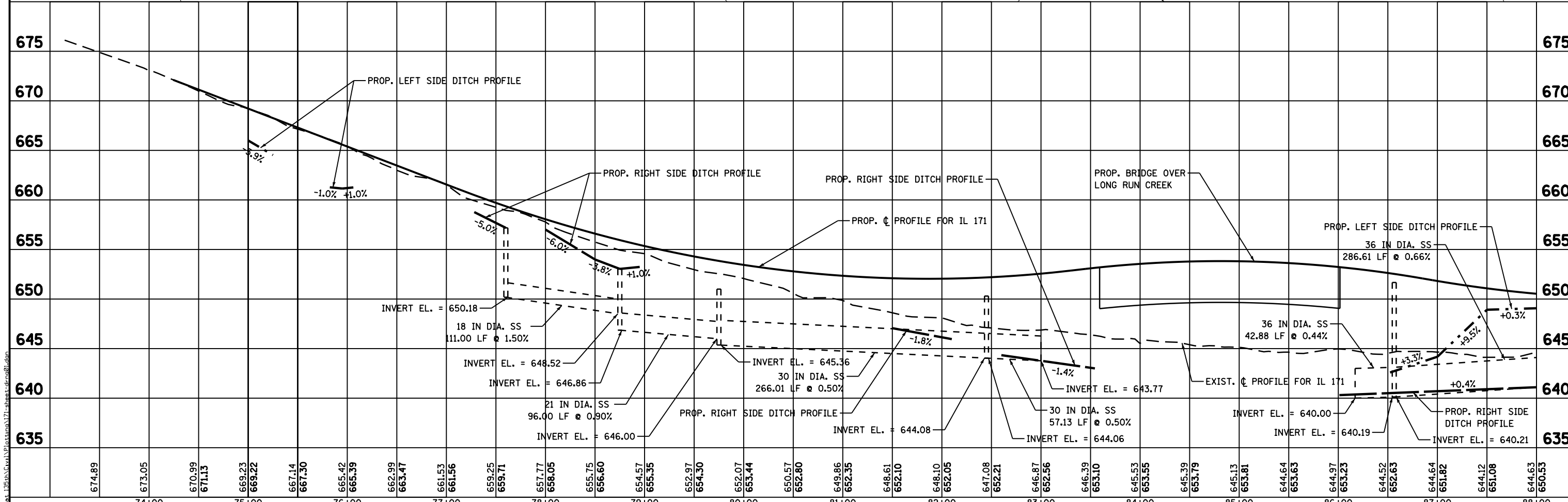
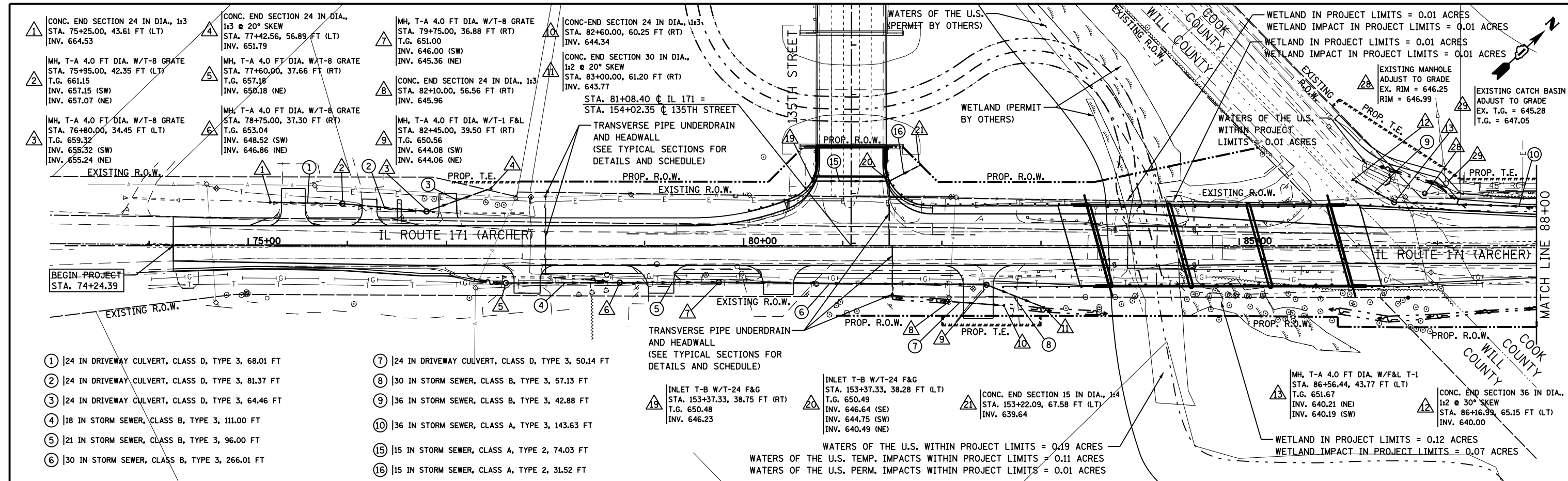
**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**IL 171  
 EXISTING DRAINAGE PLAN**  
 SCALE: 1" = 50' SHEET NO. 1 OF 3 SHEETS STA. 74+24.39 TO STA. 95+68.94

F.A.P. RTE. 577	SECTION C-1-B	COUNTY WILL/COOK	TOTAL SHEETS 186	SHEET NO. 54
CONTRACT NO. 60H21			ILLINOIS FED. AID PROJECT	

DATE	
BY	
PLAN	SUBMITTED
	PLOTTED
	ALIGNED
	CHECKED
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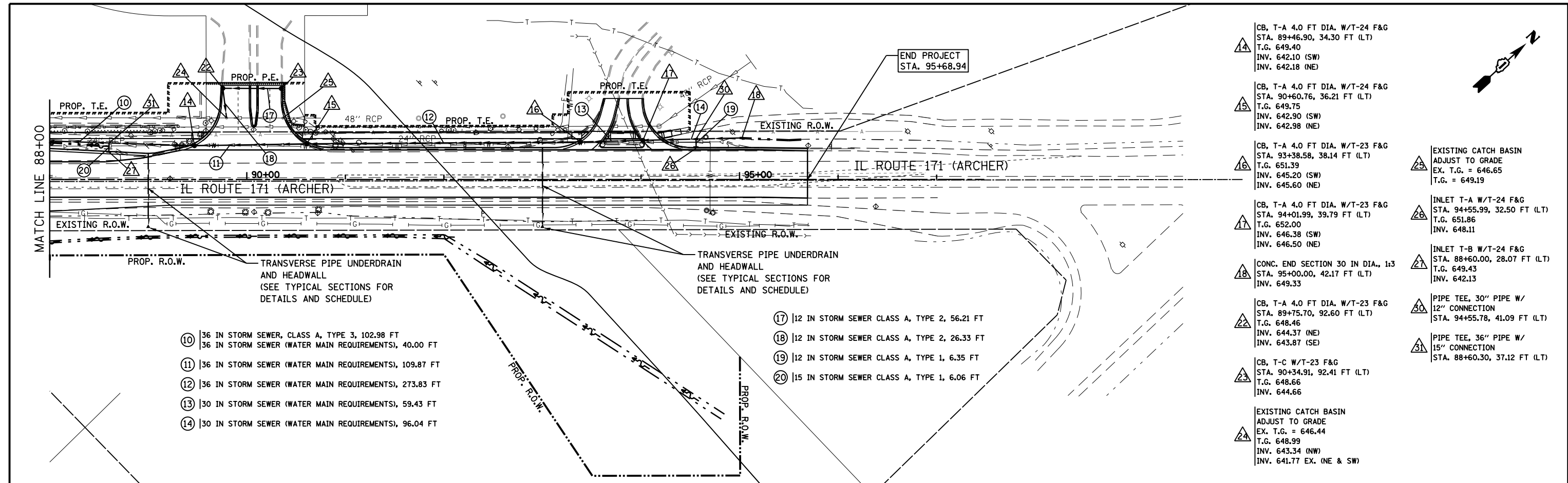
DATE	
BY	
PROFILE	SUBMITTED
	PLOTTED
	GRADES CHECKED
	STRUCTURE NOTATIONS OK'D
	NO. _____



<b>PARSONS BRINCKERHOFF</b> 230 West Monroe St., Suite 900 Chicago, IL 60606, (312) 782-8150	USER NAME = clemosc	DESIGNED - CJC	REVISED -	<b>STATE OF ILLINOIS</b> <b>DEPARTMENT OF TRANSPORTATION</b>	<b>DRAINAGE PLAN &amp; PROFILE</b>			F.A.P. RTE. = 577	SECTION = C-1-B	COUNTY = WILL/COOK	TOTAL SHEETS = 186	SHEET NO. = 55	
	PLOT SCALE = 1" = 50'	CHECKED - RFT	REVISED -		SCALE: 1" = 50'	SHEET NO. 2 OF 3 SHEETS	STA. 74+24.39 TO STA. 88+00.00	ILLINOIS FED. AID PROJECT					
	PLOT DATE = 17-MAR-2016	DATE = 3/18/2016	REVISED -										

DATE	
BY	
PLAN	SUBMITTED
	PLOTTED
	ALIGNMENT CHECKED
	NOTE BOOK
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	CADD FILE NAME
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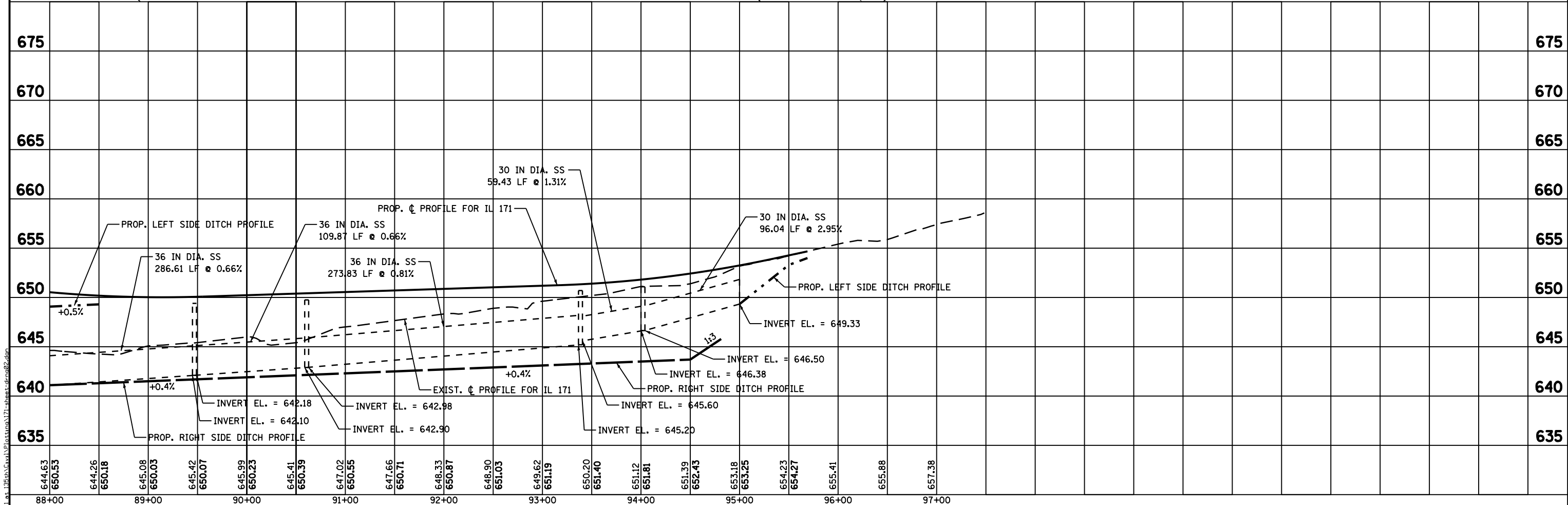
DATE	
BY	
PROFILE	SUBMITTED
	PLOTTED
	GRADES CHECKED
	STRUCTURE
	NOTATIONS CHKD
	NO. _____



- 10 | 36 IN STORM SEWER, CLASS A, TYPE 3, 102.98 FT
- 11 | 36 IN STORM SEWER (WATER MAIN REQUIREMENTS), 40.00 FT
- 12 | 36 IN STORM SEWER (WATER MAIN REQUIREMENTS), 109.87 FT
- 13 | 36 IN STORM SEWER (WATER MAIN REQUIREMENTS), 273.83 FT
- 14 | 30 IN STORM SEWER (WATER MAIN REQUIREMENTS), 59.43 FT
- 15 | 30 IN STORM SEWER (WATER MAIN REQUIREMENTS), 96.04 FT

- 17 | 12 IN STORM SEWER CLASS A, TYPE 2, 56.21 FT
- 18 | 12 IN STORM SEWER CLASS A, TYPE 2, 26.33 FT
- 19 | 12 IN STORM SEWER CLASS A, TYPE 1, 6.35 FT
- 20 | 15 IN STORM SEWER CLASS A, TYPE 1, 6.06 FT

- 24 CB, T-A 4.0 FT DIA. W/T-24 F&G  
STA. 89+46.90, 34.30 FT (LT)  
T.G. 649.40  
INV. 642.10 (SW)  
INV. 642.18 (NE)
- 25 CB, T-A 4.0 FT DIA. W/T-24 F&G  
STA. 90+60.76, 36.21 FT (LT)  
T.G. 649.75  
INV. 642.90 (SW)  
INV. 642.98 (NE)
- 26 CB, T-A 4.0 FT DIA. W/T-23 F&G  
STA. 93+38.58, 38.14 FT (LT)  
T.G. 651.39  
INV. 645.20 (SW)  
INV. 645.60 (NE)
- 27 CB, T-A 4.0 FT DIA. W/T-23 F&G  
STA. 94+01.99, 39.79 FT (LT)  
T.G. 652.00  
INV. 646.38 (SW)  
INV. 646.50 (NE)
- 28 CONC. END SECTION 30 IN DIA., 13  
STA. 95+00.00, 42.17 FT (LT)  
INV. 649.33
- 29 CB, T-A 4.0 FT DIA. W/T-23 F&G  
STA. 89+75.70, 92.60 FT (LT)  
T.G. 648.46  
INV. 644.37 (NE)  
INV. 643.87 (SE)
- 30 CB, T-C W/T-23 F&G  
STA. 90+34.91, 92.41 FT (LT)  
T.G. 648.66  
INV. 644.66
- 31 EXISTING CATCH BASIN  
ADJUST TO GRADE  
EX. T.G. = 646.44  
T.G. 648.99  
INV. 643.34 (NW)  
INV. 641.77 EX. (NE & SW)
- 32 EXISTING CATCH BASIN  
ADJUST TO GRADE  
EX. T.G. = 646.65  
T.G. = 649.19
- 33 INLET T-A W/T-24 F&G  
STA. 94+55.99, 32.50 FT (LT)  
T.G. 651.86  
INV. 648.11
- 34 INLET T-B W/T-24 F&G  
STA. 88+60.00, 28.07 FT (LT)  
T.G. 649.43  
INV. 642.13
- 35 PIPE TEE, 30" PIPE W/  
12" CONNECTION  
STA. 94+55.78, 41.09 FT (LT)
- 36 PIPE TEE, 36" PIPE W/  
15" CONNECTION  
STA. 88+60.30, 37.12 FT (LT)



**PARSONS BRINCKERHOFF**  
230 West Monroe St., Suite 900  
Chicago, IL 60606, (312) 782-8150

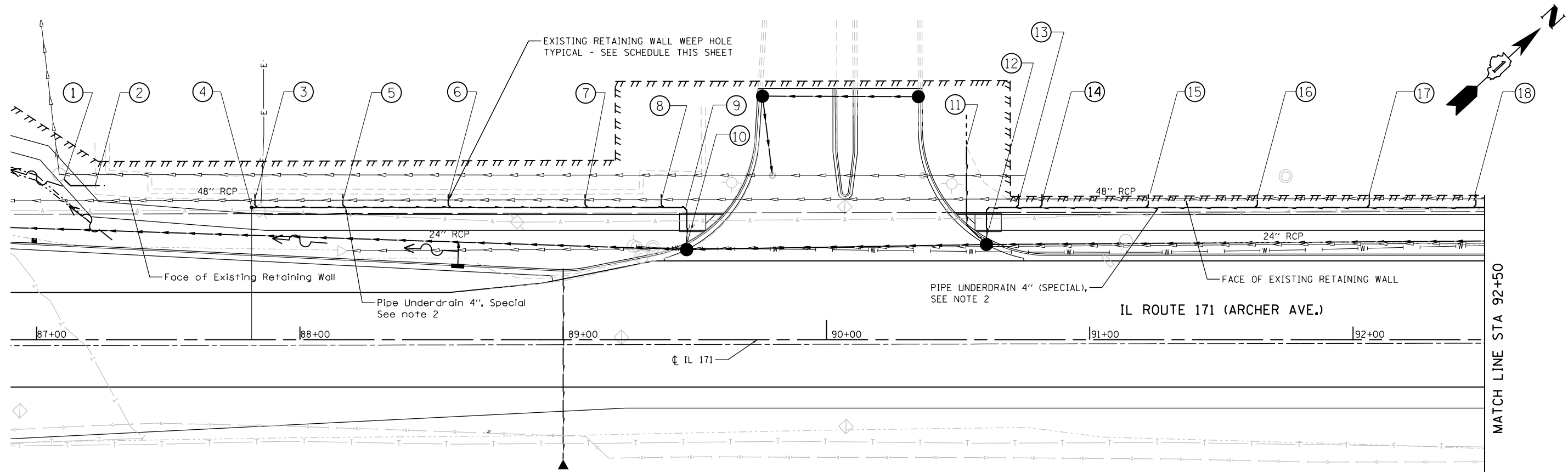
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	DRAWN - CJC	REVISED -
PLOT SCALE = 1" = 50'	CHECKED - RFT	REVISED -
PLOT DATE = 17-MAR-2016	DATE - 3/18/2016	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

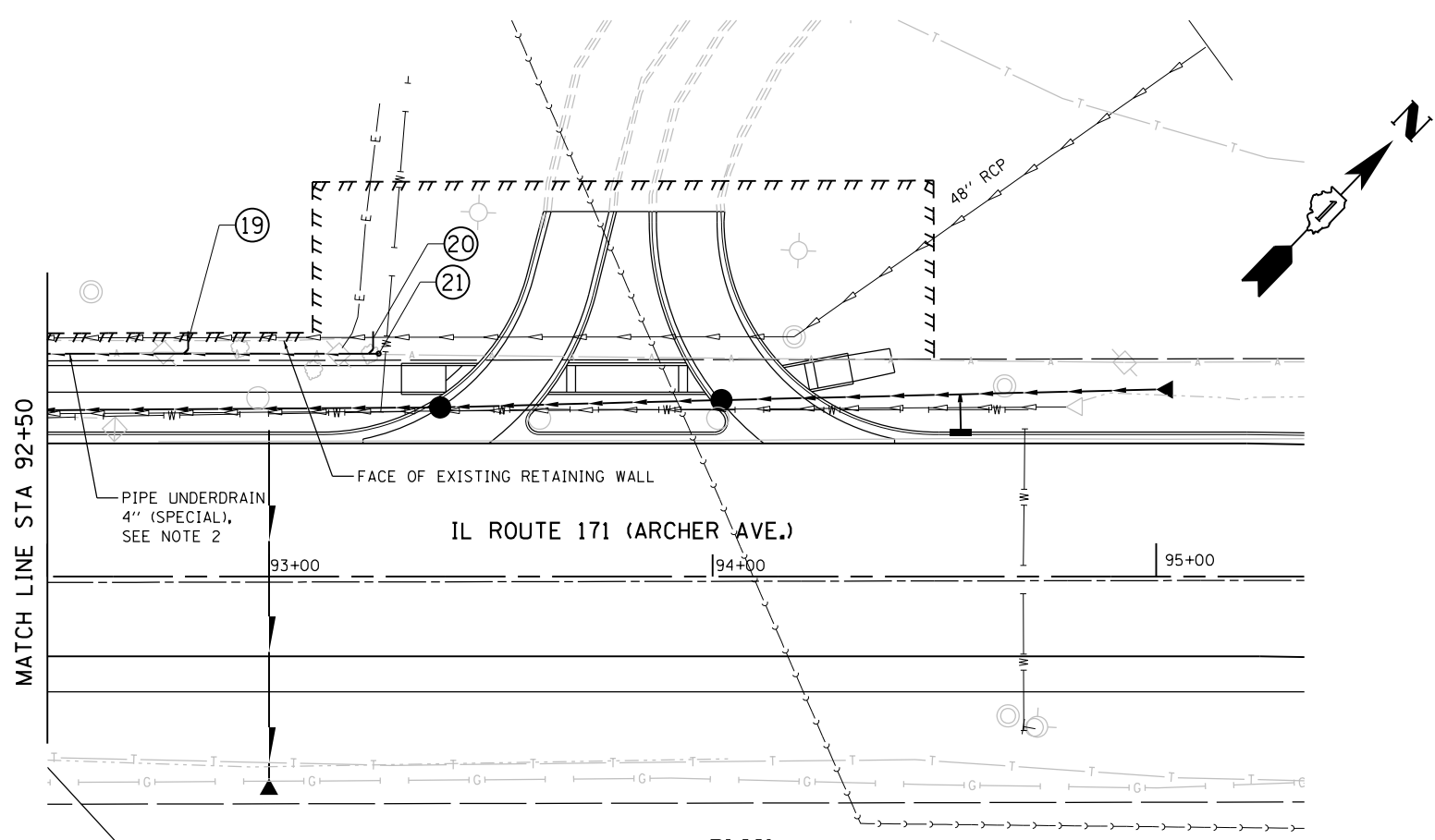
DRAINAGE PLAN AND PROFILE			
SCALE: 1" = 50'	SHEET NO. 3 OF 3 SHEETS	STA. 88+00.00	TO STA. 95+68.94

F.A.P. RTE. 577	SECTION C-1-B	COUNTY WILL/COOK	TOTAL SHEETS 186	SHEET NO. 56
CONTRACT NO. 60H21				ILLINOIS FED. AID PROJECT





PLAN



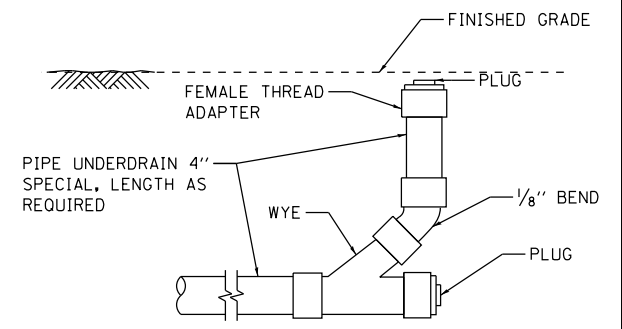
PLAN

**SCHEDULE  
DRAINS FOR EXIST. RETAINING WALL  
WEEP HOLES**

1	87+08.63	CONNECT TO MANHOLE (SEE NOTE 3)
2	87+22.30	NOTE 1
3	87+82.90	NOTE 1
4	87+80.00	PROVIDE CLEAN-OUT
5	88+16.30	NOTE 1
6	88+56.30	NOTE 1
7	89+08.30	NOTE 1
8	89+37.30	NOTE 1
9	89+46.95	PROVIDE 45 DEGREE FITTINGS
10	89+46.95	CONNECT TO PROP. CB (SEE NOTE 3)
11	90+53.20	NOTE 1
12	90+60.75	CONNECT TO PROP CB (SEE NOTE 3)
13	90+72.90	NOTE 1
14	90+81.90	NOTE 1
15	91+22.20	NOTE 1
16	91+63.70	NOTE 1
17	92+06.20	NOTE 1
18	92+46.70	NOTE 1
19	92+81.80	NOTE 1
20	93+23.50	NOTE 1
21	93+24.73	PROVIDE CLEAN-OUT

**NOTES**

- CONNECT NEW PIPE UNDERDRAINS 4" (SPECIAL) TO EXISTING RETAINING WALL WEEP HOLES.
- LONGITUDINAL LOCATION OF PIPE UNDERDRAIN 4" SPECIAL SHOWN ON THIS PLAN IS OFFSET FROM EXISTING WALL FOR CLARITY, LOCATE CENTERLINE OF PIPE APPROXIMATELY A MINIMUM OF 18" FROM FACE OF WALL.
- ALL CONNECTORS, FITTINGS AND CLEAN OUTS SHALL BE INCLUDED IN THE PRICE OF PIPE UNDERDRAINS 4" (SPECIAL).
- PRIOR TO CONNECTING TO EXISTING RETAINING WALL WEEP HOLES THE CONTRACTOR IN COORDINATION WITH PROPERTY OWNER SHALL CLEAN DEBRIS OR ANY OTHER OBSTRUCTIONS FROM THE WEEP HOLES, COST SHALL BE INCLUDED WITH PIPE UNDERDRAINS 4" (SPECIAL)



**CLEANOUT DETAIL**  
N.T.S.

3/18/2016

**HBM**  
ENGINEERING GROUP, LLC  
4415 WEST HARRISON ST.  
SUITE 231  
HILLSIDE, IL 60162  
PHONE: (708) 236-0900  
FAX: (708) 236-0901

DESIGNED -  
DRAWN -  
CHECKED -  
PLOT DATE = 03/11/2016

REVISD -  
REVISD -  
REVISD -  
DATE - 03/18/2016

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

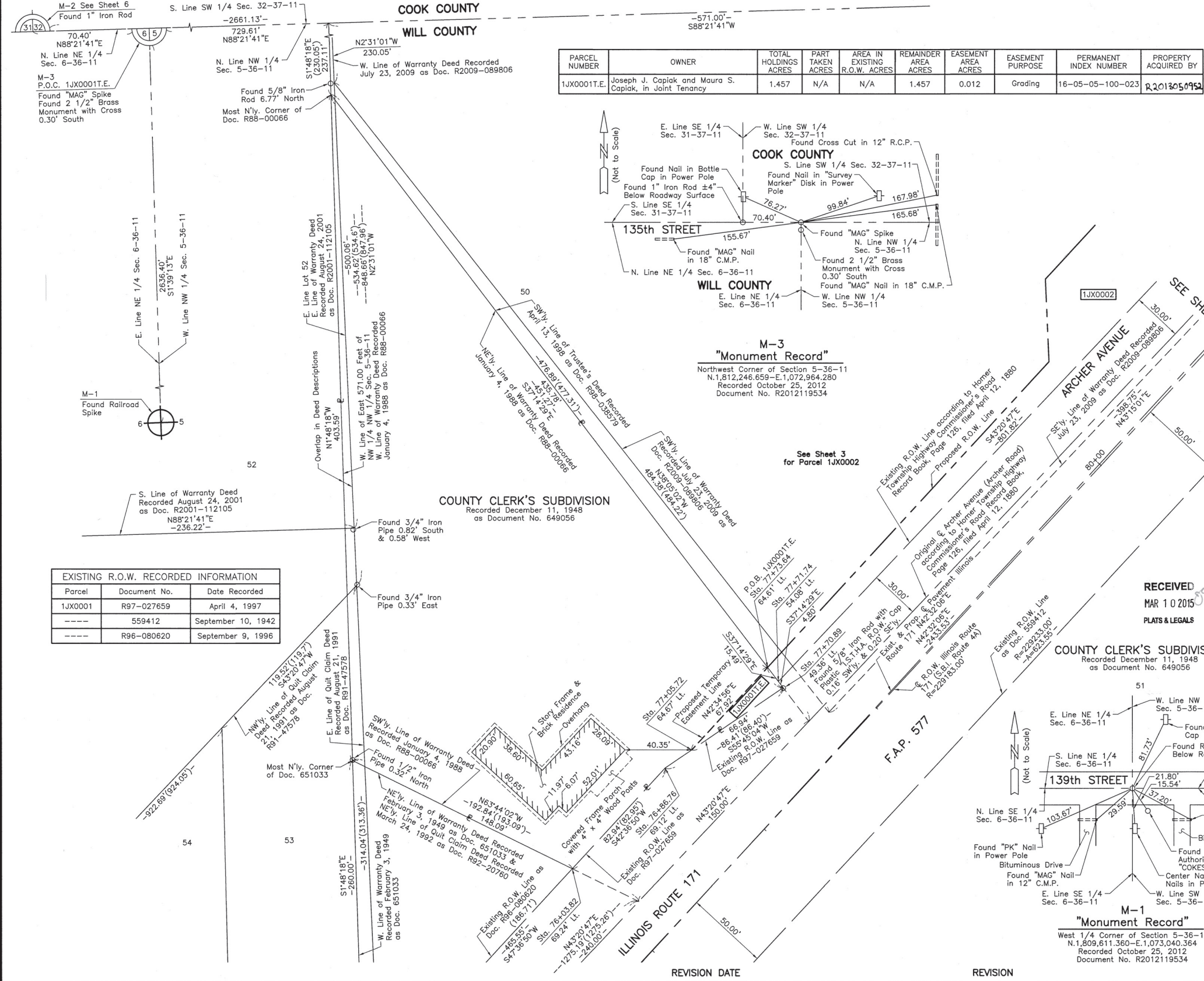
**PLAN - DRAINS FOR EXIST.  
RETAINING WALL WEEP HOLES**

SHEET NO. 1 OF 1 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
577	C-1-B	WILL & COOK	186	57

CONTRACT NO. 60H21  
ILLINOIS FED. AID PROJECT

PART OF THE NW 1/4 OF SEC. 5, TWP. 36 N., R. 11 E. OF THE 3RD. P.M., IN WILL COUNTY, ILLINOIS.



PARCEL NUMBER	OWNER	TOTAL HOLDINGS ACRES	PART TAKEN ACRES	AREA IN EXISTING R.O.W. ACRES	REMAINDER AREA ACRES	EASEMENT AREA ACRES	EASEMENT PURPOSE	PERMANENT INDEX NUMBER	PROPERTY ACQUIRED BY
1JX0001E	Joseph J. Capiak and Moura S. Capiak, in Joint Tenancy	1.457	N/A	N/A	1.457	0.012	Grading	16-05-05-100-023	R2012050952

### LEGEND

SECTION CORNER

QUARTER SECTION CORNER

- SECTION LINE
- QUARTER SECTION LINE
- PLATTED LOT LINE
- PROPERTY (DEED) LINE
- APPARENT PROPERTY LINE
- CENTER LINE
- EXISTING RIGHT OF WAY LINE
- PROPOSED RIGHT OF WAY LINE
- PROPOSED EASEMENT
- MEASURED DIMENSION
- COMPUTED DIMENSION
- RECORD DATA
- EXISTING BUILDING

SCALE: 1"=30'

- Bearings and Coordinates are referenced to the Illinois Coordinate System NAD 83(2007) East Zone.
- IRON PIPE OR ROD FOUND
  - "MAG" NAIL SET
  - CUT CROSS FOUND OR SET
  - 5/8" REBAR SET
  - THESE STAKES REFERENCE FOUND OR SET MONUMENTATION. SET 5/8 INCH IRON ROD FLUSH WITH GROUND TO TIE FOUND IRON STAKE. IDENTIFIED BY COLORED PLASTIC CAP BEARING SURVEYORS REGISTRATION NUMBER.
  - THESE STAKES, IN CULTIVATED AREAS, REFERENCE FOUND OR SET MONUMENTATION. BURIED 5/8 INCH IRON ROD 20 INCHES BELOW GROUND TO TIE FOUND IRON STAKE. IDENTIFIED BY COLORED PLASTIC CAP BEARING SURVEYORS REGISTRATION NUMBER.
  - STAKING OF PROPOSED RIGHT OF WAY. SET DIVISION OF HIGHWAYS SURVEY MARKER TO MONUMENT THE POSITION SHOWN. IDENTIFIED BY INSCRIPTION DATA AND SURVEYORS REGISTRATION NUMBER.
  - STAKING OF PROPOSED RIGHT OF WAY IN CULTIVATED AREAS. BURIED 5/8 INCH METAL ROD 20 INCHES BELOW GROUND TO MARK TYPICAL SURVEY MARKER POSITION IDENTIFIED BY COLORED PLASTIC CAP BEARING SURVEYORS REGISTRATION NUMBER.
  - PERMANENT SURVEY MARKER, I.D.O.T. STD 2135 (TO BE SET BY OTHERS)
  - RIGHT OF WAY STAKING PROPOSED TO BE SET.

Parcel	Document No.	Date Recorded
1JX0001	R97-027659	April 4, 1997
-----	559412	September 10, 1942
-----	R96-080620	September 9, 1996

STATE OF ILLINOIS }  
 COUNTY OF LAKE }  
 THIS IS TO CERTIFY THAT WE, JORGENSEN & ASSOCIATES, INC., AN ILLINOIS PROFESSIONAL DESIGN FIRM LAND SURVEYING CORPORATION, NUMBER 184-2771, HAVE SURVEYED THE PLAT OF HIGHWAYS SHOWN HEREON IN SECTION 5, TOWNSHIP 36N., RANGE 11E., OF THE THIRD PRINCIPAL MERIDIAN, WILL COUNTY, THAT THE SURVEY IS TRUE AND COMPLETE AS SHOWN TO THE BEST OF MY KNOWLEDGE AND BELIEF, THAT THE PLAT CORRECTLY REPRESENTS SAID SURVEY, THAT ALL MONUMENTS FOUND AND ESTABLISHED ARE OF PERMANENT QUALITY AND OCCUPY THE POSITIONS SHOWN THEREON AND THAT THE MONUMENTS ARE SUFFICIENT TO ENABLE THE SURVEY TO BE TRACED. MADE FOR THE DEPARTMENT OF TRANSPORTATION, STATE OF ILLINOIS.  
 DATED AT LAKE VILLA, ILLINOIS THIS 25th DAY OF October 2012.



Note: Surface Coordinates are Shown.

STATION	OFFSET	NORTH	EAST
76+03.82	69.24' Lt.	1,811,561.608	1,073,846.579
76+86.76	69.12' Lt.	1,811,622.647	1,073,902.735
77+05.72	64.67' Lt.	1,811,633.608	1,073,918.834
77+70.89	49.36' Lt.	1,811,671.280	1,073,974.164
77+71.74	54.08' Lt.	1,811,675.098	1,073,971.262
77+73.64	64.61' Lt.	1,811,683.614	1,073,964.788

JORGENSEN & ASSOCIATES, INC.  
 120 PARK AVENUE  
 LAKE VILLA, ILLINOIS 60046  
 (847) 356-3371

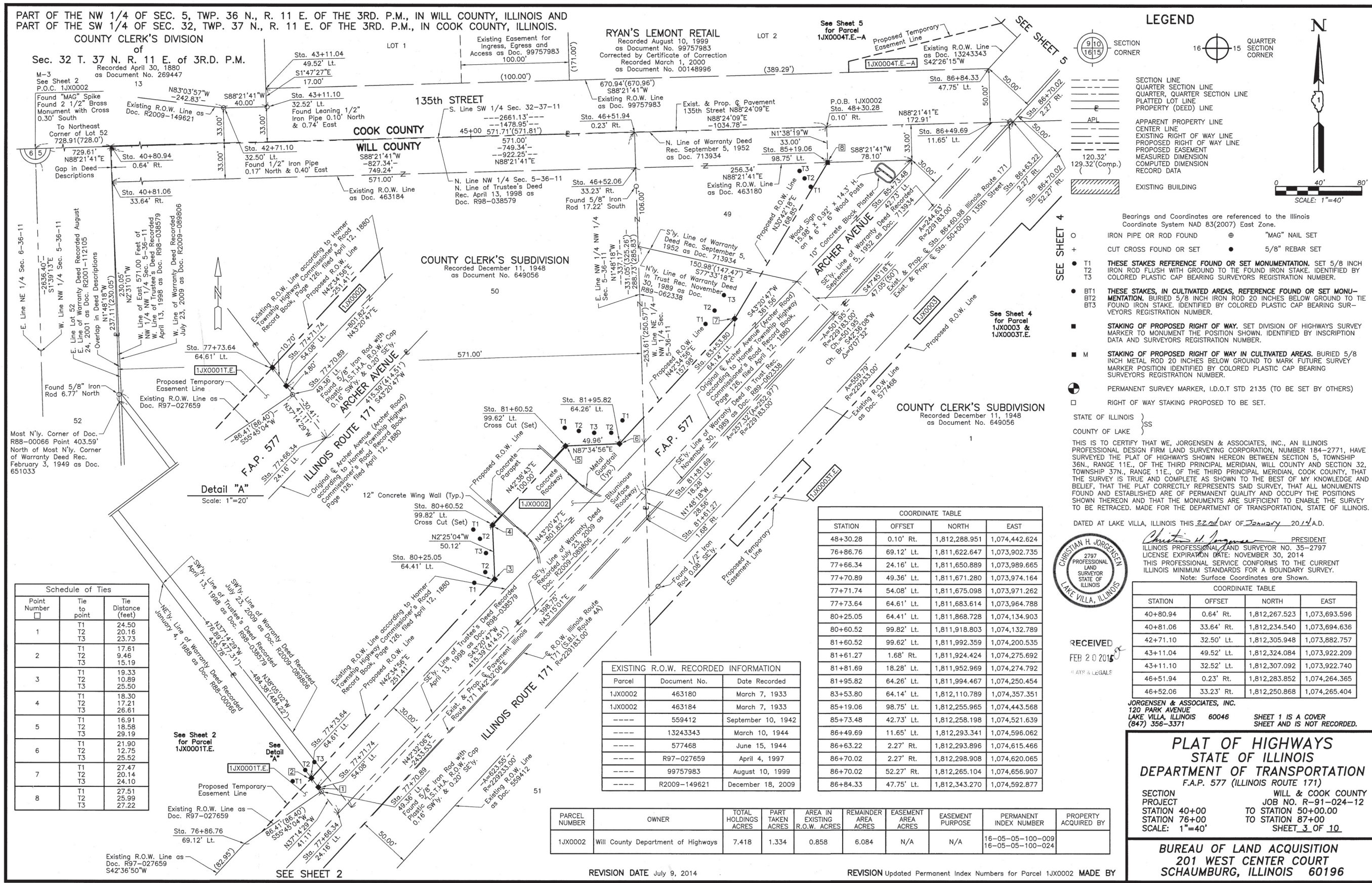
**PLAT OF HIGHWAYS**  
 STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION  
 F.A.P. 577 (ILLINOIS ROUTE 171)

SECTION C-1-B WILL COUNTY  
 PROJECT JOB NO. R-91-024-12  
 STATION 76+00 TO STATION 81+00  
 SCALE: 1"=30' SHEET 2 OF 10

**BUREAU OF LAND ACQUISITION**  
 201 WEST CENTER COURT  
 SCHAUMBURG, ILLINOIS 60196

ROUTE F.A.P. 577 (ILLINOIS ROUTE 171) SECTION COUNTY WILL JOB NO. R-91-024-12 RECORDING: RECORDED ON AS DOCUMENT NO.

<b>HBM</b> ENGINEERING GROUP, LLC CONSULTING & DESIGN INSPECTION & TESTING RESEARCH & TESTING	4415 WEST HARRISON ST. SUITE 231 HILLSIDE, IL 60162 PHONE: (708) 236-0900 FAX: (708) 236-0901	DESIGNED - DRAWN - CHECKED - PLOT DATE = 03/08/2016	REVISED - REVISED - REVISED - DATE - 5/30/2014	<b>STATE OF ILLINOIS</b> <b>DEPARTMENT OF TRANSPORTATION</b>	<b>PLAT OF HIGHWAY</b>	F.A.P. 577 SECTION C-1-B COUNTY WILL & COOK TOTAL SHEETS 186 SHEET NO. 58 CONTRACT NO. 60H21 ILLINOIS FED. AID PROJECT
	SHEET NO. 1 OF 9 SHEETS					
	REVISION					



### LEGEND

SECTION CORNER  
QUARTER SECTION CORNER

SECTION LINE  
QUARTER SECTION LINE  
QUARTER, QUARTER SECTION LINE  
PLATTED LOT LINE  
PROPERTY (DEED) LINE

APL  
APPARENT PROPERTY LINE  
CENTER LINE  
EXISTING RIGHT OF WAY LINE  
PROPOSED RIGHT OF WAY LINE  
PROPOSED EASEMENT  
MEASURED DIMENSION  
COMPUTED DIMENSION  
RECORD DATA

EXISTING BUILDING

Bearings and Coordinates are referenced to the Illinois Coordinate System NAD 83(2007) East Zone.

IRON PIPE OR ROD FOUND  
"MAG" NAIL SET  
CUT CROSS FOUND OR SET  
5/8" REBAR SET

THESE STAKES REFERENCE FOUND OR SET MONUMENTATION. SET 5/8 INCH IRON ROD FLUSH WITH GROUND TO THE FOUND IRON STAKE. IDENTIFIED BY COLORED PLASTIC CAP BEARING SURVEYORS REGISTRATION NUMBER.

THESE STAKES, IN CULTIVATED AREAS, REFERENCE FOUND OR SET MONUMENTATION. BURIED 5/8 INCH IRON ROD 20 INCHES BELOW GROUND TO THE FOUND IRON STAKE. IDENTIFIED BY COLORED PLASTIC CAP BEARING SURVEYORS REGISTRATION NUMBER.

STAKING OF PROPOSED RIGHT OF WAY. SET DIVISION OF HIGHWAYS SURVEY MARKER TO MONUMENT THE POSITION SHOWN. IDENTIFIED BY INSCRIPTION DATA AND SURVEYORS REGISTRATION NUMBER.

STAKING OF PROPOSED RIGHT OF WAY IN CULTIVATED AREAS. BURIED 5/8 INCH METAL ROD 20 INCHES BELOW GROUND TO MARK FUTURE SURVEY MARKER POSITION IDENTIFIED BY COLORED PLASTIC CAP BEARING SURVEYORS REGISTRATION NUMBER.

PERMANENT SURVEY MARKER, I.D.O.T STD 2135 (TO BE SET BY OTHERS)

RIGHT OF WAY STAKING PROPOSED TO BE SET.

STATE OF ILLINOIS }  
COUNTY OF LAKE } SS

THIS IS TO CERTIFY THAT WE, JORGENSEN & ASSOCIATES, INC., AN ILLINOIS PROFESSIONAL DESIGN FIRM LAND SURVEYING CORPORATION, NUMBER 184-2771, HAVE SURVEYED THE PLAT OF HIGHWAYS SHOWN HEREON BETWEEN SECTION 5, TOWNSHIP 36N., RANGE 11E., OF THE THIRD PRINCIPAL MERIDIAN, WILL COUNTY AND SECTION 32, TOWNSHIP 37N., RANGE 11E., OF THE THIRD PRINCIPAL MERIDIAN, COOK COUNTY, THAT THE SURVEY IS TRUE AND COMPLETE AS SHOWN TO THE BEST OF MY KNOWLEDGE AND BELIEF, THAT THE PLAT CORRECTLY REPRESENTS SAID SURVEY, THAT ALL MONUMENTS FOUND AND ESTABLISHED ARE OF PERMANENT QUALITY AND OCCUPY THE POSITIONS SHOWN THEREON AND THAT THE MONUMENTS ARE SUFFICIENT TO ENABLE THE SURVEY TO BE RETRACED. MADE FOR THE DEPARTMENT OF TRANSPORTATION, STATE OF ILLINOIS.

DATED AT LAKE VILLA, ILLINOIS THIS 22nd DAY OF January 2014 A.D.

*Christian H. Jorgensen* PRESIDENT  
ILLINOIS PROFESSIONAL LAND SURVEYOR NO. 35-2797  
LICENSE EXPIRATION DATE: NOVEMBER 30, 2014  
THIS PROFESSIONAL SERVICE CONFORMS TO THE CURRENT ILLINOIS MINIMUM STANDARDS FOR A BOUNDARY SURVEY.  
Note: Surface Coordinates are Shown.

RECEIVED  
FEB 20 2015  
HATS & LEGALS

JORGENSEN & ASSOCIATES, INC.  
120 PARK AVENUE  
LAKE VILLA, ILLINOIS 60046  
(847) 356-3371

SHEET 1 IS A COVER SHEET AND IS NOT RECORDED.

### PLAT OF HIGHWAYS

#### STATE OF ILLINOIS

#### DEPARTMENT OF TRANSPORTATION

F.A.P. 577 (ILLINOIS ROUTE 171)

SECTION 577  
PROJECT TO STATION 40+00  
STATION 76+00  
SCALE: 1"=40'

WILL & COOK COUNTY  
JOB NO. R-91-024-12  
TO STATION 50+00.00  
TO STATION 87+00  
SHEET 3 OF 10

BUREAU OF LAND ACQUISITION  
201 WEST CENTER COURT  
SCHAUMBURG, ILLINOIS 60196

#### Schedule of Ties

Point Number	Tie to point	Tie Distance (feet)
1	T1	24.50
	T2	20.18
	T3	23.73
2	T1	17.61
	T2	9.46
	T3	15.19
3	T1	19.33
	T2	10.89
	T3	25.50
4	T1	18.30
	T2	17.21
	T3	26.61
5	T1	16.91
	T2	18.58
	T3	29.19
6	T1	21.90
	T2	12.75
	T3	25.52
7	T1	27.47
	T2	20.14
	T3	24.10
8	T1	27.51
	T2	25.99
	T3	27.22

#### EXISTING R.O.W. RECORDED INFORMATION

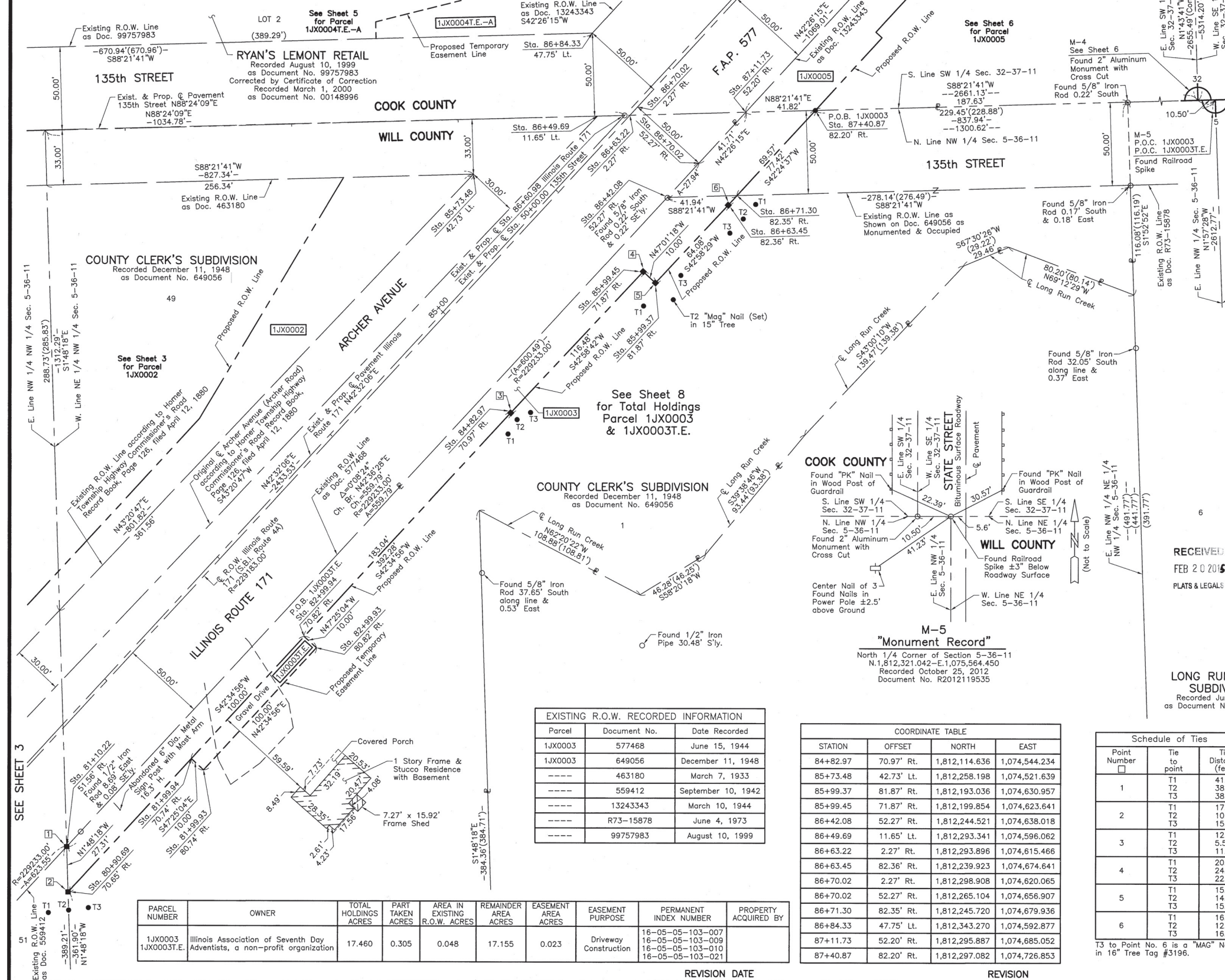
Parcel	Document No.	Date Recorded
1JX0002	463180	March 7, 1933
1JX0002	463184	March 7, 1933
---	559412	September 10, 1942
---	13243343	March 10, 1944
---	577468	June 15, 1944
---	R97-027659	April 4, 1997
---	99757983	August 10, 1999
---	R2009-149621	December 18, 2009

#### COORDINATE TABLE

STATION	OFFSET	NORTH	EAST
48+30.28	0.10' Rt.	1,812,288.951	1,074,442.624
76+86.76	69.12' Lt.	1,811,622.647	1,073,902.735
77+66.34	24.16' Lt.	1,811,650.889	1,073,989.665
77+70.89	49.36' Lt.	1,811,671.280	1,073,974.164
77+71.74	54.08' Lt.	1,811,675.098	1,073,971.262
77+73.64	64.61' Lt.	1,811,683.614	1,073,964.788
80+25.05	64.41' Lt.	1,811,868.728	1,074,134.903
80+60.52	99.82' Lt.	1,811,918.803	1,074,132.789
81+60.52	99.62' Lt.	1,811,992.359	1,074,200.535
81+61.27	1.68' Rt.	1,811,924.424	1,074,275.692
81+81.69	18.28' Lt.	1,811,952.969	1,074,274.792
81+95.82	64.26' Lt.	1,811,994.467	1,074,250.454
83+53.80	64.14' Lt.	1,812,110.789	1,074,357.351
85+19.06	98.75' Lt.	1,812,255.965	1,074,443.568
85+73.48	42.73' Lt.	1,812,258.198	1,074,521.639
86+49.69	11.65' Lt.	1,812,293.341	1,074,596.062
86+63.22	2.27' Rt.	1,812,293.896	1,074,615.466
86+70.02	2.27' Rt.	1,812,298.908	1,074,620.065
86+70.02	52.27' Rt.	1,812,265.104	1,074,656.907
86+84.33	47.75' Lt.	1,812,343.270	1,074,592.877

PARCEL NUMBER	OWNER	TOTAL HOLDINGS ACRES	PART TAKEN ACRES	AREA IN EXISTING R.O.W. ACRES	REMAINDER AREA ACRES	EASEMENT AREA ACRES	EASEMENT PURPOSE	PERMANENT INDEX NUMBER	PROPERTY ACQUIRED BY
1JX0002	Will County Department of Highways	7.418	1.334	0.858	6.084	N/A	N/A	16-05-05-100-009 16-05-05-100-024	

PART OF THE NW 1/4 OF SEC. 5, TWP. 36 N., R. 11 E. OF THE 3RD. P.M., IN WILL COUNTY, ILLINOIS AND PART OF THE SW 1/4 OF SEC. 32, TWP. 37 N., R. 11 E. OF THE 3RD. P.M., IN COOK COUNTY, ILLINOIS.



### LEGEND

SECTION CORNER  
QUARTER SECTION CORNER

SECTION LINE  
QUARTER SECTION LINE  
PLATTED LOT LINE  
PROPERTY (DEED) LINE

APL  
APPARENT PROPERTY LINE  
CENTER LINE  
EXISTING RIGHT OF WAY LINE  
PROPOSED RIGHT OF WAY LINE  
PROPOSED EASEMENT  
MEASURED DIMENSION  
COMPUTED DIMENSION  
RECORD DATA

EXISTING BUILDING

Bearings and Coordinates are referenced to the Illinois Coordinate System NAD 83(2007) East Zone.

○ IRON PIPE OR ROD FOUND  
⊕ "MAG" NAIL SET  
+ CUT CROSS FOUND OR SET  
● 5/8" REBAR SET

● T1 THESE STAKES REFERENCE FOUND OR SET MONUMENTATION. SET 5/8 INCH IRON ROD FLUSH WITH GROUND TO THE FOUND IRON STAKE, IDENTIFIED BY COLORED PLASTIC CAP BEARING SURVEYORS REGISTRATION NUMBER.  
● T2  
● T3

■ BT1 THESE STAKES, IN CULTIVATED AREAS, REFERENCE FOUND OR SET MONUMENTATION. BURIED 5/8 INCH IRON ROD 20 INCHES BELOW GROUND TO THE FOUND IRON STAKE, IDENTIFIED BY COLORED PLASTIC CAP BEARING SURVEYORS REGISTRATION NUMBER.  
■ BT2

■ STAKING OF PROPOSED RIGHT OF WAY. SET DIVISION OF HIGHWAYS SURVEY MARKER TO MONUMENT THE POSITION SHOWN, IDENTIFIED BY INSCRIPTION DATA AND SURVEYORS REGISTRATION NUMBER.

■ M STAKING OF PROPOSED RIGHT OF WAY IN CULTIVATED AREAS. BURIED 5/8 INCH METAL ROD 20 INCHES BELOW GROUND TO MARK FUTURE SURVEY MARKER POSITION IDENTIFIED BY COLORED PLASTIC CAP BEARING SURVEYORS REGISTRATION NUMBER.

● PERMANENT SURVEY MARKER, I.D.O.T STD 2135 (TO BE SET BY OTHERS)

□ RIGHT OF WAY STAKING PROPOSED TO BE SET.

STATE OF ILLINOIS }  
COUNTY OF LAKE }SS

THIS IS TO CERTIFY THAT WE, JORGENSEN & ASSOCIATES, INC., AN ILLINOIS PROFESSIONAL DESIGN FIRM LAND SURVEYING CORPORATION, NUMBER 184-2771, HAVE SURVEYED THE PLAT OF HIGHWAYS SHOWN HEREON BETWEEN SECTION 5, TOWNSHIP 36N., RANGE 11E., OF THE THIRD PRINCIPAL MERIDIAN, WILL COUNTY AND SECTION 32, TOWNSHIP 37N., RANGE 11E., OF THE THIRD PRINCIPAL MERIDIAN, COOK COUNTY, THAT THE SURVEY IS TRUE AND COMPLETE AS SHOWN TO THE BEST OF MY KNOWLEDGE AND BELIEF, THAT THE PLAT CORRECTLY REPRESENTS SAID SURVEY, THAT ALL MONUMENTS FOUND AND ESTABLISHED ARE OF PERMANENT QUALITY AND OCCUPY THE POSITIONS SHOWN THEREON AND THAT THE MONUMENTS ARE SUFFICIENT TO ENABLE THE SURVEY TO BE RETRACED. MADE FOR THE DEPARTMENT OF TRANSPORTATION, STATE OF ILLINOIS.

RECEIVED  
FEB 20 2016

PLATS & LEGALS

CHRISTIAN H. JORGENSEN  
2797  
PROFESSIONAL  
LAND  
SURVEYOR  
STATE OF  
ILLINOIS  
LAKE VILLA, ILLINOIS

DATED AT LAKE VILLA, ILLINOIS THIS 10TH DAY OF December 20, 2012 A.D.

Christian H. Jorgensen PRESIDENT  
ILLINOIS PROFESSIONAL LAND SURVEYOR NO. 35-2797  
LICENSE EXPIRATION DATE: NOVEMBER 30, 2014  
THIS PROFESSIONAL SERVICE CONFORMS TO THE CURRENT ILLINOIS MINIMUM STANDARDS FOR A BOUNDARY SURVEY.

Note: Surface Coordinates are Shown.

#### EXISTING R.O.W. RECORDED INFORMATION

Parcel	Document No.	Date Recorded
1JX0003	577468	June 15, 1944
1JX0003	649056	December 11, 1948
----	463180	March 7, 1933
----	559412	September 10, 1942
----	13243343	March 10, 1944
----	R73-15878	June 4, 1973
----	99757983	August 10, 1999

#### COORDINATE TABLE

STATION	OFFSET	NORTH	EAST
84+82.97	70.97' Rt.	1,812,114.636	1,074,544.234
85+73.48	42.73' Lt.	1,812,258.198	1,074,521.639
85+99.37	81.87' Rt.	1,812,193.036	1,074,630.957
85+99.45	71.87' Rt.	1,812,199.854	1,074,623.641
86+42.08	52.27' Rt.	1,812,244.521	1,074,638.018
86+49.69	11.65' Lt.	1,812,293.341	1,074,596.062
86+63.22	2.27' Rt.	1,812,293.896	1,074,615.466
86+63.45	82.36' Rt.	1,812,239.923	1,074,674.641
86+70.02	2.27' Rt.	1,812,298.908	1,074,620.065
86+70.02	52.27' Rt.	1,812,265.104	1,074,656.907
86+71.30	82.35' Rt.	1,812,245.720	1,074,679.936
86+84.33	47.75' Lt.	1,812,343.270	1,074,592.877
87+11.73	52.20' Rt.	1,812,295.887	1,074,685.052
87+40.87	82.20' Rt.	1,812,297.082	1,074,726.853

#### Schedule of Ties

Point Number	Tie to point	Tie Distance (feet)
1	T1	41.20
	T2	38.23
	T3	38.97
2	T1	17.15
	T2	10.92
	T3	15.42
3	T1	12.81
	T2	5.58
	T3	11.94
4	T1	20.68
	T2	24.71
	T3	22.70
5	T1	15.57
	T2	14.71
	T3	15.94
6	T1	16.46
	T2	12.26
	T3	16.86

T3 to Point No. 6 is a "MAG" Nail (Set) in 16" Tree Tag #3196.

PARCEL NUMBER	OWNER	TOTAL HOLDINGS ACRES	PART TAKEN ACRES	AREA IN EXISTING R.O.W. ACRES	REMAINDER AREA ACRES	EASEMENT AREA ACRES	EASEMENT PURPOSE	PERMANENT INDEX NUMBER	PROPERTY ACQUIRED BY
1JX0003 1JX0003T.E.	Illinois Association of Seventh Day Adventists, a non-profit organization	17.460	0.305	0.048	17.155	0.023	Driveway Construction	16-05-05-103-007 16-05-05-103-009 16-05-05-103-010 16-05-05-103-021	

ROUTE F.A.P. 577 (ILLINOIS ROUTE 171) SECTION COUNTY WILL & COOK JOB NO. R-91-024-12 REVISION RECORDING: RECORDED ON MADE BY AS DOCUMENT NO.

### PLAT OF HIGHWAYS

#### STATE OF ILLINOIS

#### DEPARTMENT OF TRANSPORTATION

F.A.P. 577 (ILLINOIS ROUTE 171)

SECTION WILL & COOK COUNTY  
PROJECT JOB NO. R-91-024-12  
STATION 46+00 TO STATION 50+00.00  
STATION 81+00 TO STATION 88+00  
SCALE: 1"=30'  
SHEET 4 OF 10

BUREAU OF LAND ACQUISITION  
201 WEST CENTER COURT  
SCHAUMBURG, ILLINOIS 60196

PART OF THE NW 1/4 OF SEC. 5, TWP. 36 N., R. 11 E. OF THE 3RD. P.M., IN WILL COUNTY, ILLINOIS AND PART OF THE SW 1/4 OF SEC. 32, TWP. 37 N., R. 11 E. OF THE 3RD. P.M., IN COOK COUNTY, ILLINOIS.

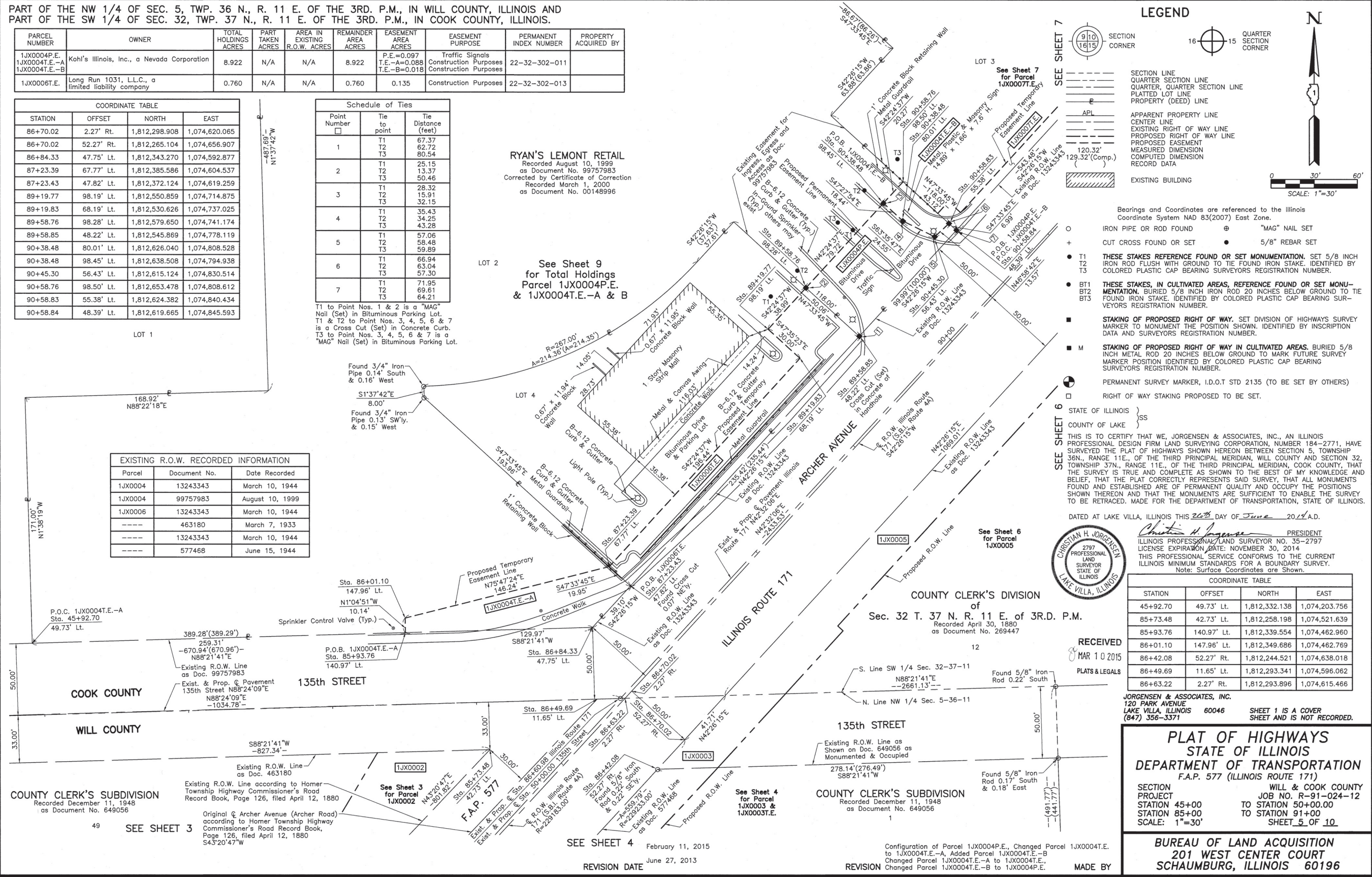
PARCEL NUMBER	OWNER	TOTAL HOLDINGS ACRES	PART TAKEN ACRES	AREA IN EXISTING R.O.W. ACRES	REMAINDER AREA ACRES	EASEMENT AREA ACRES	EASEMENT PURPOSE	PERMANENT INDEX NUMBER	PROPERTY ACQUIRED BY
1JX0004P.E. 1JX0004T.E.-A 1JX0004T.E.-B	Kohl's Illinois, Inc., a Nevada Corporation	8.922	N/A	N/A	8.922	P.E.=0.097 T.E.-A=0.088 T.E.-B=0.018	Traffic Signals Construction Purposes Construction Purposes	22-32-302-011	
1JX0006T.E.	Long Run 1031, L.L.C., a limited liability company	0.760	N/A	N/A	0.760	0.135	Construction Purposes	22-32-302-013	

STATION	OFFSET	NORTH	EAST
86+70.02	2.27' Rt.	1,812,298.908	1,074,620.065
86+70.02	52.27' Rt.	1,812,265.104	1,074,656.907
86+84.33	47.75' Lt.	1,812,343.270	1,074,592.877
87+23.39	67.77' Lt.	1,812,385.586	1,074,604.537
87+23.43	47.82' Lt.	1,812,372.124	1,074,619.259
89+19.77	98.19' Lt.	1,812,550.859	1,074,714.875
89+19.83	68.19' Lt.	1,812,530.626	1,074,737.025
89+58.76	98.28' Lt.	1,812,579.650	1,074,741.174
89+58.85	48.22' Lt.	1,812,545.869	1,074,778.119
90+38.48	80.01' Lt.	1,812,626.040	1,074,808.528
90+38.48	98.45' Lt.	1,812,638.508	1,074,794.938
90+45.30	56.43' Lt.	1,812,615.124	1,074,830.514
90+58.76	98.50' Lt.	1,812,653.478	1,074,808.612
90+58.83	55.38' Lt.	1,812,624.382	1,074,840.434
90+58.84	48.39' Lt.	1,812,619.665	1,074,845.593

Point Number	Tie to point	Tie Distance (feet)
1	T1	67.37
	T2	62.72
	T3	80.54
2	T1	25.15
	T2	13.37
	T3	50.46
3	T1	28.32
	T2	15.91
	T3	32.15
4	T1	35.43
	T2	34.25
	T3	43.28
5	T1	57.06
	T2	58.48
	T3	59.89
6	T1	66.94
	T2	63.04
	T3	57.30
7	T1	71.95
	T2	69.61
	T3	64.21

T1 to Point Nos. 1 & 2 is a "MAG" Nail (Set) in Bituminous Parking Lot. T1 & T2 to Point Nos. 3, 4, 5, 6 & 7 is a Cross Cut (Set) in Concrete Curb. T3 to Point Nos. 3, 4, 5, 6 & 7 is a "MAG" Nail (Set) in Bituminous Parking Lot.

Parcel	Document No.	Date Recorded
1JX0004	13243343	March 10, 1944
1JX0004	99757983	August 10, 1999
1JX0006	13243343	March 10, 1944
----	463180	March 7, 1933
----	13243343	March 10, 1944
----	577468	June 15, 1944



**LEGEND**

SECTION CORNER (910/1615)  
QUARTER SECTION CORNER (16/15)

SECTION LINE  
QUARTER SECTION LINE  
QUARTER, QUARTER SECTION LINE  
PLATTED LOT LINE  
PROPERTY (DEED) LINE

APL  
APPARENT PROPERTY LINE  
CENTER LINE  
EXISTING RIGHT OF WAY LINE  
PROPOSED RIGHT OF WAY LINE  
PROPOSED EASEMENT  
MEASURED DIMENSION  
COMPUTED DIMENSION  
RECORD DATA

EXISTING BUILDING

Bearings and Coordinates are referenced to the Illinois Coordinate System NAD 83(2007) East Zone.

○ IRON PIPE OR ROD FOUND  
⊕ "MAG" NAIL SET  
+ CUT CROSS FOUND OR SET  
● 5/8" REBAR SET

● T1 THESE STAKES REFERENCE FOUND OR SET MONUMENTATION. SET 5/8 INCH IRON ROD FLUSH WITH GROUND TO THE FOUND IRON STAKE. IDENTIFIED BY COLORED PLASTIC CAP BEARING SURVEYORS REGISTRATION NUMBER.  
● T2  
● T3  
● BT1 THESE STAKES, IN CULTIVATED AREAS, REFERENCE FOUND OR SET MONUMENTATION. BURIED 5/8 INCH IRON ROD 20 INCHES BELOW GROUND TO THE FOUND IRON STAKE. IDENTIFIED BY COLORED PLASTIC CAP BEARING SURVEYORS REGISTRATION NUMBER.  
● BT2  
● BT3  
■ STAKING OF PROPOSED RIGHT OF WAY. SET DIVISION OF HIGHWAYS SURVEY MARKER TO MONUMENT THE POSITION SHOWN. IDENTIFIED BY INSCRIPTION DATA AND SURVEYORS REGISTRATION NUMBER.  
■ M STAKING OF PROPOSED RIGHT OF WAY IN CULTIVATED AREAS. BURIED 5/8 INCH METAL ROD 20 INCHES BELOW GROUND TO MARK FUTURE SURVEY MARKER POSITION IDENTIFIED BY COLORED PLASTIC CAP BEARING SURVEYORS REGISTRATION NUMBER.

● PERMANENT SURVEY MARKER, I.D.O.T. STD 2135 (TO BE SET BY OTHERS)  
□ RIGHT OF WAY STAKING PROPOSED TO BE SET.

STATE OF ILLINOIS }  
COUNTY OF LAKE }  
SS

THIS IS TO CERTIFY THAT WE, JORGENSEN & ASSOCIATES, INC., AN ILLINOIS PROFESSIONAL DESIGN FIRM LAND SURVEYING CORPORATION, NUMBER 184-2771, HAVE SURVEYED THE PLAT OF HIGHWAYS SHOWN HEREON BETWEEN SECTION 5, TOWNSHIP 36N., RANGE 11E., OF THE THIRD PRINCIPAL MERIDIAN, WILL COUNTY AND SECTION 32, TOWNSHIP 37N., RANGE 11E., OF THE THIRD PRINCIPAL MERIDIAN, COOK COUNTY, THAT THE SURVEY IS TRUE AND COMPLETE AS SHOWN TO THE BEST OF MY KNOWLEDGE AND BELIEF, THAT THE PLAT CORRECTLY REPRESENTS SAID SURVEY, THAT ALL MONUMENTS FOUND AND ESTABLISHED ARE OF PERMANENT QUALITY AND OCCUPY THE POSITIONS SHOWN THEREON AND THAT THE MONUMENTS ARE SUFFICIENT TO ENABLE THE SURVEY TO BE RETRACED. MADE FOR THE DEPARTMENT OF TRANSPORTATION, STATE OF ILLINOIS.

DATED AT LAKE VILLA, ILLINOIS THIS 26th DAY OF June, 2014 A.D.

CHRISTIAN H. JORGENSEN  
2797 PROFESSIONAL LAND SURVEYOR  
STATE OF ILLINOIS  
LAKE VILLA, ILLINOIS

COUNTY CLERK'S DIVISION  
of  
Sec. 32 T. 37 N. R. 11 E. of 3RD. P.M.  
Recorded April 30, 1880  
as Document No. 289447

RECEIVED  
MAR 10 2015  
PLATS & LEGALS

STATION	OFFSET	NORTH	EAST
45+92.70	49.73' Lt.	1,812,332.138	1,074,203.756
85+73.48	42.73' Lt.	1,812,258.198	1,074,521.639
85+93.76	140.97' Lt.	1,812,339.554	1,074,462.960
86+01.10	147.96' Lt.	1,812,349.686	1,074,462.769
86+42.08	52.27' Rt.	1,812,244.521	1,074,638.018
86+49.69	11.65' Lt.	1,812,293.341	1,074,596.062
86+63.22	2.27' Rt.	1,812,293.896	1,074,615.466

JORGENSEN & ASSOCIATES, INC.  
120 PARK AVENUE  
LAKE VILLA, ILLINOIS 60046  
(847) 356-3371

SHEET 1 IS A COVER SHEET AND IS NOT RECORDED.

**PLAT OF HIGHWAYS  
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**  
F.A.P. 577 (ILLINOIS ROUTE 171)

SECTION WILL & COOK COUNTY  
PROJECT JOB NO. R-91-024-12  
STATION 45+00 TO STATION 50+00.00  
STATION 85+00 TO STATION 91+00  
SCALE: 1"=30' SHEET 5 OF 10

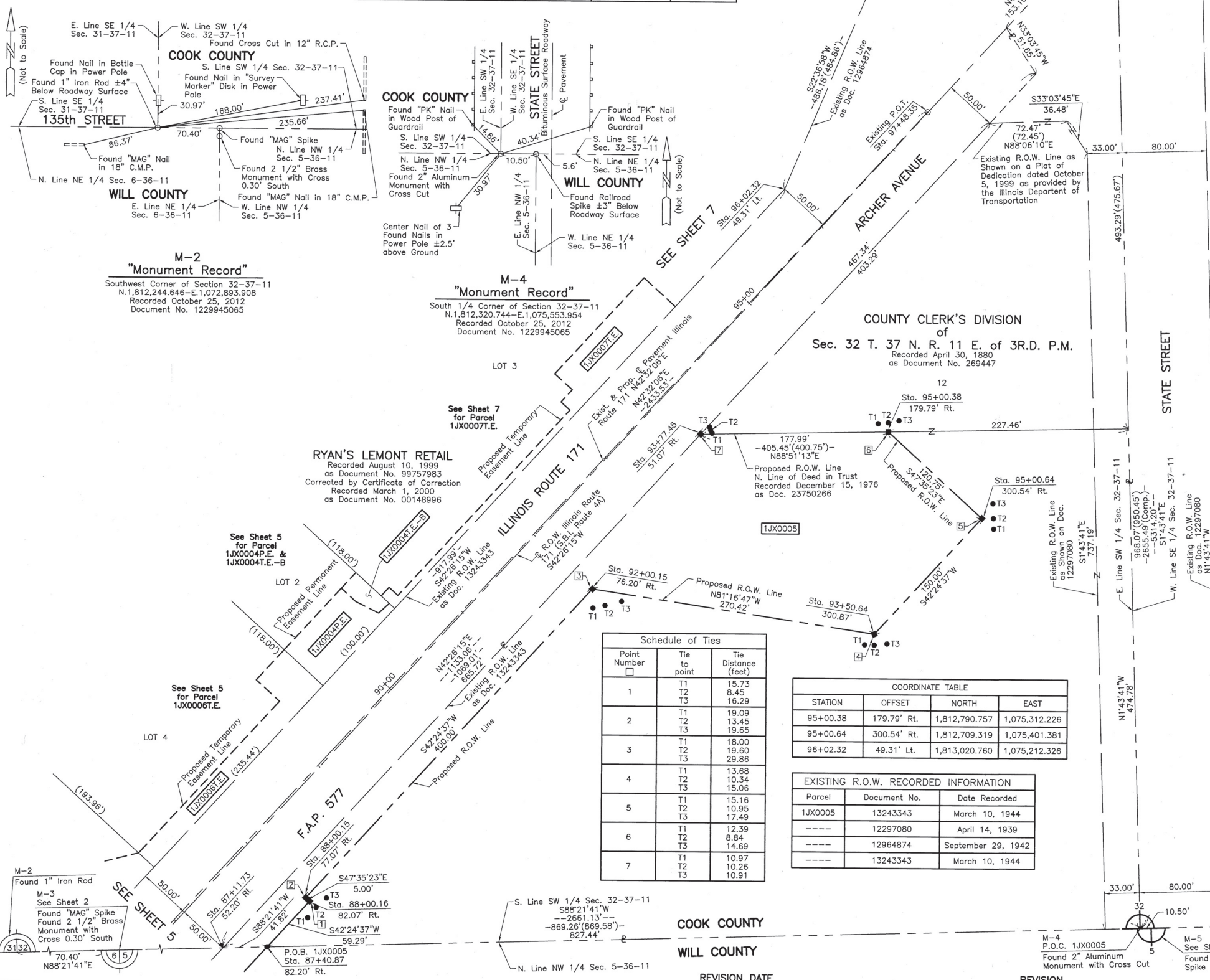
**BUREAU OF LAND ACQUISITION**  
201 WEST CENTER COURT  
SCHAUMBURG, ILLINOIS 60196

ROUTE F.A.P. 577 (ILLINOIS ROUTE 171) SECTION COUNTY WILL & COOK JOB NO. R-91-024-12 RECORDING: RECORDED ON AS DOCUMENT NO.

<p><b>HBM</b> ENGINEERING GROUP, LLC CONSULTING &amp; DESIGN INSPECTION &amp; RATING RESEARCH &amp; TESTING</p> <p>4415 WEST HARRISON ST. SUITE 231 MILLSIDE, IL 60162 PHONE: (708) 236-0900 FAX: (708) 236-0901</p>	DESIGNED -	REVISED -	<p><b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b></p> <p>PLAT OF HIGHWAY</p> <p>SHEET NO. 4 OF 9 SHEETS</p>	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	DRAWN -	REVISED -		577	C-1-B	WILL & COOK	186	61
	CHECKED -	REVISED -		CONTRACT NO. 60H21			ILLINOIS FED. AID PROJECT	
PLOT DATE = 03/08/2016	DATE = 5/30/2014	REVISED -						

PART OF THE SOUTH 1/2 OF SEC. 32, TWP. 37 N., R. 11 E. OF THE 3RD. P.M., IN COOK COUNTY, ILLINOIS.

PARCEL NUMBER	OWNER	TOTAL HOLDINGS ACRES	PART TAKEN ACRES	AREA IN EXISTING R.O.W. ACRES	REMAINDER AREA ACRES	EASEMENT AREA ACRES	EASEMENT PURPOSE	PERMANENT INDEX NUMBER	PROPERTY ACQUIRED BY
1JX0005	Bank Chicago, formerly known as Bank of Lyons as Trustee under Trust Agreement dated August 10, 1976 known as Trust No. 1755	9.097	1.431	N/A	7.666	N/A	N/A	22-32-302-006 22-32-302-007	



### LEGEND

- SECTION CORNER
- QUARTER SECTION CORNER
- SECTION LINE
- QUARTER SECTION LINE
- QUARTER, QUARTER SECTION LINE
- PLATTED LOT LINE
- PROPERTY (DEED) LINE
- APL
- APPARENT PROPERTY LINE
- CENTER LINE
- EXISTING RIGHT OF WAY LINE
- PROPOSED RIGHT OF WAY LINE
- PROPOSED EASEMENT
- MEASURED DIMENSION
- COMPUTED DIMENSION
- RECORD DATA
- EXISTING BUILDING

Bearings and Coordinates are referenced to the Illinois Coordinate System NAD 83(2007) East Zone.

- IRON PIPE OR ROD FOUND
- ⊕ "MAG" NAIL SET
- + CUT CROSS FOUND OR SET
- 5/8" REBAR SET
- T1 THESE STAKES REFERENCE FOUND OR SET MONUMENTATION. SET 5/8 INCH IRON ROD FLUSH WITH GROUND TO TIE FOUND IRON STAKE. IDENTIFIED BY COLORED PLASTIC CAP BEARING SURVEYORS REGISTRATION NUMBER.
- T2
- T3
- BT1 THESE STAKES, IN CULTIVATED AREAS, REFERENCE FOUND OR SET MONUMENTATION. BURIED 5/8 INCH IRON ROD 20 INCHES BELOW GROUND TO TIE FOUND IRON STAKE. IDENTIFIED BY COLORED PLASTIC CAP BEARING SURVEYORS REGISTRATION NUMBER.
- BT2
- BT3
- STAKING OF PROPOSED RIGHT OF WAY. SET DIVISION OF HIGHWAYS SURVEY MARKER TO MONUMENT THE POSITION SHOWN. IDENTIFIED BY INSCRIPTION DATA AND SURVEYORS REGISTRATION NUMBER.
- M STAKING OF PROPOSED RIGHT OF WAY IN CULTIVATED AREAS. BURIED 5/8 INCH METAL ROD 20 INCHES BELOW GROUND TO MARK FUTURE SURVEY MARKER POSITION IDENTIFIED BY COLORED PLASTIC CAP BEARING SURVEYORS REGISTRATION NUMBER.
- ⊙ PERMANENT SURVEY MARKER, I.D.O.T STD 2135 (TO BE SET BY OTHERS)
- RIGHT OF WAY STAKING PROPOSED TO BE SET.

STATE OF ILLINOIS } SS  
COUNTY OF LAKE } SS

THIS IS TO CERTIFY THAT WE, JORGENSEN & ASSOCIATES, INC., AN ILLINOIS PROFESSIONAL DESIGN FIRM LAND SURVEYING CORPORATION, NUMBER 184-2771, HAVE SURVEYED THE PLAT OF HIGHWAYS SHOWN HEREON IN SECTION 32, TOWNSHIP 37N., RANGE 11E., OF THE THIRD PRINCIPAL MERIDIAN, COOK COUNTY, THAT THE SURVEY IS TRUE AND COMPLETE AS SHOWN TO THE BEST OF MY KNOWLEDGE AND BELIEF, THAT THE PLAT CORRECTLY REPRESENTS SAID SURVEY, THAT ALL MONUMENTS FOUND AND ESTABLISHED ARE OF PERMANENT QUALITY AND OCCUPY THE POSITIONS SHOWN THEREON AND THAT THE MONUMENTS ARE SUFFICIENT TO ENABLE THE SURVEY TO BE RETRACED. MADE FOR THE DEPARTMENT OF TRANSPORTATION, STATE OF ILLINOIS. DATED AT LAKE VILLA, ILLINOIS THIS 11th DAY OF December 2012 A.D.

*Christina H. Jorgensen* PRESIDENT  
ILLINOIS PROFESSIONAL LAND SURVEYOR NO. 35-2797  
LICENSE EXPIRATION DATE: NOVEMBER 30, 2014  
THIS PROFESSIONAL SERVICE CONFORMS TO THE CURRENT ILLINOIS MINIMUM STANDARDS FOR A BOUNDARY SURVEY.

Note: Surface Coordinates are Shown.

#### Schedule of Ties

Point Number	Tie to point	Tie Distance (feet)
1	T1	15.73
	T2	8.45
	T3	16.29
2	T1	19.09
	T2	13.45
	T3	19.85
3	T1	18.00
	T2	19.60
	T3	29.86
4	T1	13.68
	T2	10.34
	T3	15.06
5	T1	15.16
	T2	10.95
	T3	17.49
6	T1	12.39
	T2	8.84
	T3	14.69
7	T1	10.97
	T2	10.26
	T3	10.91

#### COORDINATE TABLE

STATION	OFFSET	NORTH	EAST
95+00.38	179.79' Rt.	1,812,790.757	1,075,312.226
95+00.64	300.54' Rt.	1,812,709.319	1,075,401.381
96+02.32	49.31' Lt.	1,813,020.760	1,075,212.326

#### EXISTING R.O.W. RECORDED INFORMATION

Parcel	Document No.	Date Recorded
1JX0005	13243343	March 10, 1944
---	12297080	April 14, 1939
---	12964874	September 29, 1942
---	13243343	March 10, 1944

#### COORDINATE TABLE

STATION	OFFSET	NORTH	EAST
87+11.73	52.20' Rt.	1,812,295.887	1,074,685.052
87+40.87	82.20' Rt.	1,812,297.082	1,074,726.853
88+00.15	77.07' Rt.	1,812,344.233	1,074,763.151
88+00.16	82.07' Rt.	1,812,340.860	1,074,766.843
92+00.15	76.20' Rt.	1,812,639.566	1,075,032.925
93+50.64	300.87' Rt.	1,812,598.569	1,075,300.215
93+77.45	51.07' Rt.	1,812,787.197	1,075,134.271

JORGENSEN & ASSOCIATES, INC.  
120 PARK AVENUE  
LAKE VILLA, ILLINOIS 60046  
(847) 356-3371

SHEET 1 IS A COVER SHEET AND IS NOT RECORDED.

**PLAT OF HIGHWAYS**  
**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**  
F.A.P. 577 (ILLINOIS ROUTE 171)  
SECTION COOK COUNTY  
PROJECT JOB NO. R-91-024-12  
STATION 87+00 TO STATION 97+48.35  
SCALE: 1"=50' SHEET 6 OF 10

**BUREAU OF LAND ACQUISITION**  
201 WEST CENTER COURT  
SCHAUMBURG, ILLINOIS 60196

RECEIVED  
MAR 10 2015  
PLATS & LEGALS

ROUTE F.A.P. 577 (ILLINOIS ROUTE 171) SECTION COUNTY COOK REVISION DATE JOB NO. R-91-024-12 RECORDING: RECORDED ON AS DOCUMENT NO.

3/8/2016  
**HBM**  
ENGINEERING GROUP, LLC  
CONSULTING & DESIGN  
INSPECTION & RATING  
RESEARCH & TESTING

4415 WEST HARRISON ST.  
SUITE 231  
MILLSIDE, IL 60162  
PHONE: (708) 236-0900  
FAX: (708) 236-0901

DESIGNED	DRAWN	CHECKED	DATE	REVISION
-	-	-	5/30/2014	-

**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

**PLAT OF HIGHWAY**  
SHEET NO. 5 OF 9 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
577	C-1-B	WILL & COOK	186	62

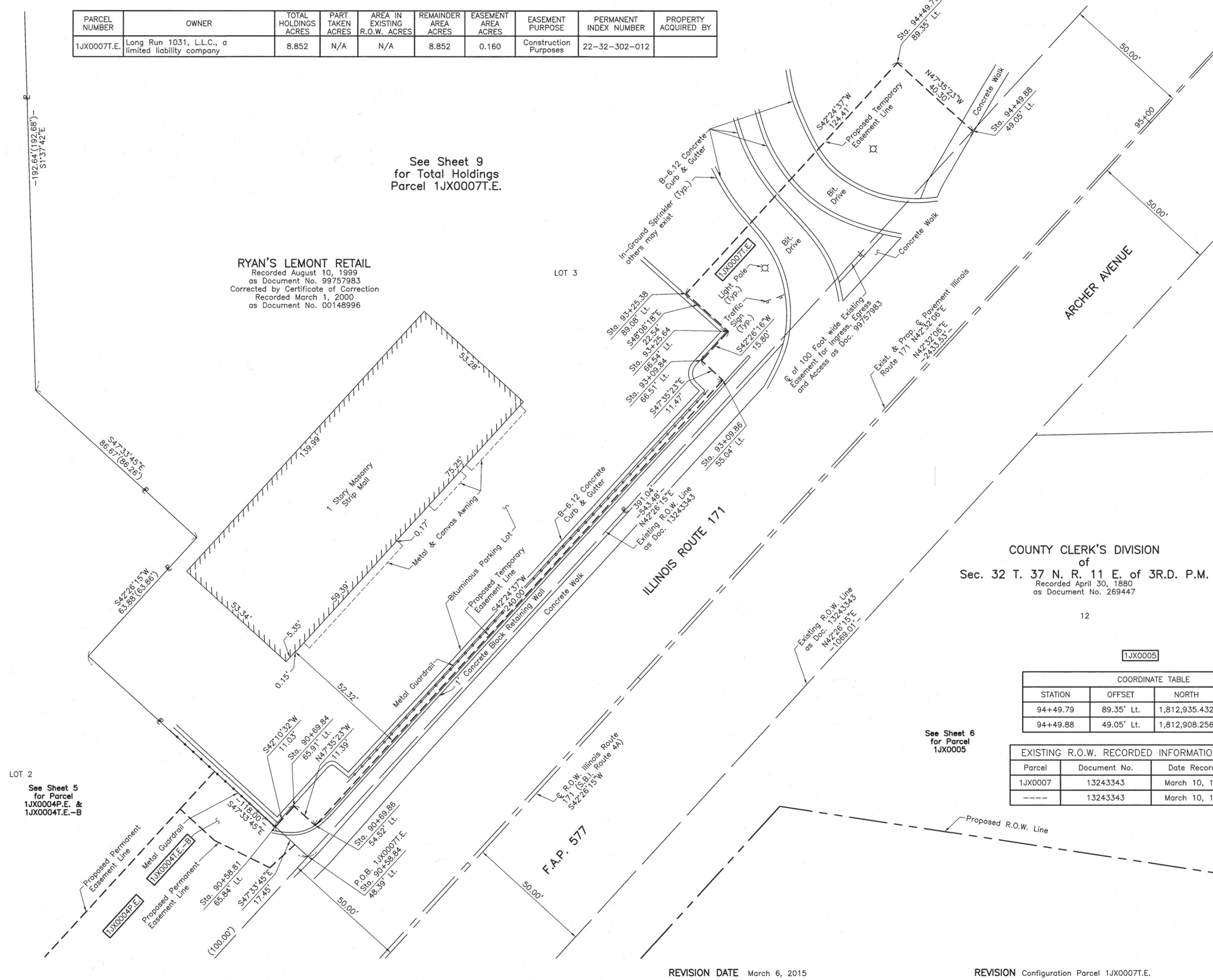
CONTRACT NO. 60H21  
ILLINOIS FED. AID PROJECT

PART OF THE SW 1/4 OF SEC. 32, TWP. 37 N., R. 11 E. OF THE 3RD. P.M., IN COOK COUNTY, ILLINOIS.

PARCEL NUMBER	OWNER	TOTAL HOLDINGS ACRES	PART TAKEN ACRES	AREA IN EXISTING R.O.W. ACRES	REMAINDER AREA ACRES	EASEMENT AREA ACRES	EASEMENT PURPOSE	PERMANENT INDEX NUMBER	PROPERTY ACQUIRED BY
1JX0007T.E	Long Run 1031, L.L.C., a limited liability company	8.852	N/A	N/A	8.852	0.160	Construction Purposes	22-32-302-012	

See Sheet 9 for Total Holdings Parcel 1JX0007T.E.

**RYAN'S LEMONT RETAIL**  
 Recorded August 10, 1999 as Document No. 99757983  
 Corrected by Certificate of Correction Recorded March 1, 2000 as Document No. 00148996



**LEGEND**

SECTION CORNER: 910/1615, 16/15

QUARTER SECTION CORNER: 16/15

SECTION LINE: ---  
 QUARTER SECTION LINE: - - -  
 PLATTED LOT LINE: ---  
 PROPERTY (DEED) LINE: ---

APL: ---  
 APPARENT PROPERTY LINE: ---  
 CENTER LINE: ---  
 EXISTING RIGHT OF WAY LINE: ---  
 PROPOSED RIGHT OF WAY LINE: ---  
 PROPOSED EASEMENT: ---  
 MEASURED DIMENSION: ---  
 COMPUTED DIMENSION: ---  
 RECORD DATA: ---

EXISTING BUILDING: [Hatched Box]

Scale: 1"=20'

Bearings and Coordinates are referenced to the Illinois Coordinate System NAD 83(2007) East Zone.

○ IRON PIPE OR ROD FOUND    ⊕ "MAG" NAIL SET  
 + CUT CROSS FOUND OR SET    ● 5/8" REBAR SET

● T1 THESE STAKES REFERENCE FOUND OR SET MONUMENTATION. SET 5/8 INCH IRON ROD FLUSH WITH GROUND TO THE FOUND IRON STAKE, IDENTIFIED BY COLORED PLASTIC CAP BEARING SURVEYORS REGISTRATION NUMBER.  
 ● T2  
 ● T3

● BT1 THESE STAKES, IN CULTIVATED AREAS, REFERENCE FOUND OR SET MONUMENTATION. BURIED 5/8 INCH IRON ROD 20 INCHES BELOW GROUND TO THE FOUND IRON STAKE, IDENTIFIED BY COLORED PLASTIC CAP BEARING SURVEYORS REGISTRATION NUMBER.  
 ● BT2  
 ● BT3

■ STAKING OF PROPOSED RIGHT OF WAY. SET DIVISION OF HIGHWAYS SURVEY MARKER TO MONUMENT THE POSITION SHOWN, IDENTIFIED BY INSCRIPTION DATA AND SURVEYORS REGISTRATION NUMBER.

■ M STAKING OF PROPOSED RIGHT OF WAY IN CULTIVATED AREAS. BURIED 5/8 INCH METAL ROD 20 INCHES BELOW GROUND TO MARK FUTURE SURVEY MARKER POSITION IDENTIFIED BY COLORED PLASTIC CAP BEARING SURVEYORS REGISTRATION NUMBER.

⊙ PERMANENT SURVEY MARKER, I.D.O.T STD 2135 (TO BE SET BY OTHERS)

□ RIGHT OF WAY STAKING PROPOSED TO BE SET.

STATE OF ILLINOIS } SS  
 COUNTY OF LAKE } SS

THIS IS TO CERTIFY THAT WE, JORGENSEN & ASSOCIATES, INC., AN ILLINOIS PROFESSIONAL DESIGN FIRM LAND SURVEYING CORPORATION, NUMBER 184-2771, HAVE SURVEYED THE PLAT OF HIGHWAYS SHOWN HEREON IN SECTION 32, TOWNSHIP 37N., RANGE 11E., OF THE THIRD PRINCIPAL MERIDIAN, COOK COUNTY, THAT THE SURVEY IS TRUE AND COMPLETE AS SHOWN TO THE BEST OF MY KNOWLEDGE AND BELIEF, THAT THE PLAT CORRECTLY REPRESENTS SAID SURVEY, THAT ALL MONUMENTS FOUND AND ESTABLISHED ARE OF PERMANENT QUALITY AND OCCUPY THE POSITIONS SHOWN THEREON AND THAT THE MONUMENTS ARE SUFFICIENT TO ENABLE THE SURVEY TO BE RETRACED. MADE FOR THE DEPARTMENT OF TRANSPORTATION, STATE OF ILLINOIS.

DATED AT LAKE VILLA, ILLINOIS THIS 25<sup>TH</sup> DAY OF October 2015 A.D.

COUNTY CLERK'S DIVISION  
 of  
 Sec. 32 T. 37 N. R. 11 E. of 3RD. P.M.  
 Recorded April 30, 1880  
 as Document No. 269447

12

CHRISTIAN H. JORGENSEN  
 2797 PROFESSIONAL LAND SURVEYOR  
 STATE OF ILLINOIS  
 LAKE VILLA, ILLINOIS

ILLINOIS PROFESSIONAL LAND SURVEYOR NO. 35-2797  
 LICENSE EXPIRATION DATE: NOVEMBER 30, 2012  
 THIS PROFESSIONAL SERVICE CONFORMS TO THE CURRENT ILLINOIS MINIMUM STANDARDS FOR A BOUNDARY SURVEY.  
 Note: Surface Coordinates are Shown.

1JX0005

STATION	OFFSET	NORTH	EAST
90+58.81	65.84' Lt.	1,812,631.441	1,074,832.714
90+58.84	48.39' Lt.	1,812,619.665	1,074,845.593
90+69.84	65.91' Lt.	1,812,639.615	1,074,840.119
90+69.86	54.52' Lt.	1,812,631.934	1,074,848.527
93+09.84	66.51' Lt.	1,812,816.868	1,075,001.925
93+09.86	55.04' Lt.	1,812,809.134	1,075,010.391
93+25.38	89.08' Lt.	1,812,843.578	1,074,995.805
93+25.64	66.54' Lt.	1,812,828.526	1,075,012.584

Parcel	Document No.	Date Recorded
1JX0007	13243343	March 10, 1944
----	13243343	March 10, 1944

STATION	OFFSET	NORTH	EAST
90+58.81	65.84' Lt.	1,812,631.441	1,074,832.714
90+58.84	48.39' Lt.	1,812,619.665	1,074,845.593
90+69.84	65.91' Lt.	1,812,639.615	1,074,840.119
90+69.86	54.52' Lt.	1,812,631.934	1,074,848.527
93+09.84	66.51' Lt.	1,812,816.868	1,075,001.925
93+09.86	55.04' Lt.	1,812,809.134	1,075,010.391
93+25.38	89.08' Lt.	1,812,843.578	1,074,995.805
93+25.64	66.54' Lt.	1,812,828.526	1,075,012.584

JORGENSEN & ASSOCIATES, INC.  
 120 PARK AVENUE  
 LAKE VILLA, ILLINOIS 60046  
 (847) 356-3371

SHEET 1 IS A COVER SHEET AND IS NOT RECORDED.

**PLAT OF HIGHWAYS**  
 STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION  
 F.A.P. 577 (ILLINOIS ROUTE 171)

SECTION: C-1-B  
 PROJECT: COOK COUNTY  
 STATION: 90+00 TO STATION 95+00  
 SCALE: 1"=20'  
 SHEET 7 OF 10

**BUREAU OF LAND ACQUISITION**  
 201 WEST CENTER COURT  
 SCHAUMBURG, ILLINOIS 60196

RECEIVED  
 MAR 10 2015  
 LEGALS

ROUTE F.A.P. 577 (ILLINOIS ROUTE 171) SECTION COUNTY COOK JOB NO. R-91-024-12 RECORDING: RECORDED ON AS DOCUMENT NO.

3/8/2016  
**HBM**  
 ENGINEERING GROUP, LLC  
 CONSULTING & DESIGN  
 INSPECTION & RATING  
 RESEARCH & TESTING

4415 WEST HARRISON ST.  
 SUITE 231  
 HILLSIDE, IL 60162  
 PHONE: (708) 236-0900  
 FAX: (708) 236-0901

DESIGNED -	REVISION DATE	March 6, 2015
DRAWN -	REVISION	
CHECKED -	REVISION	
PLOT DATE = 03/08/2016	DATE	5/30/2014

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

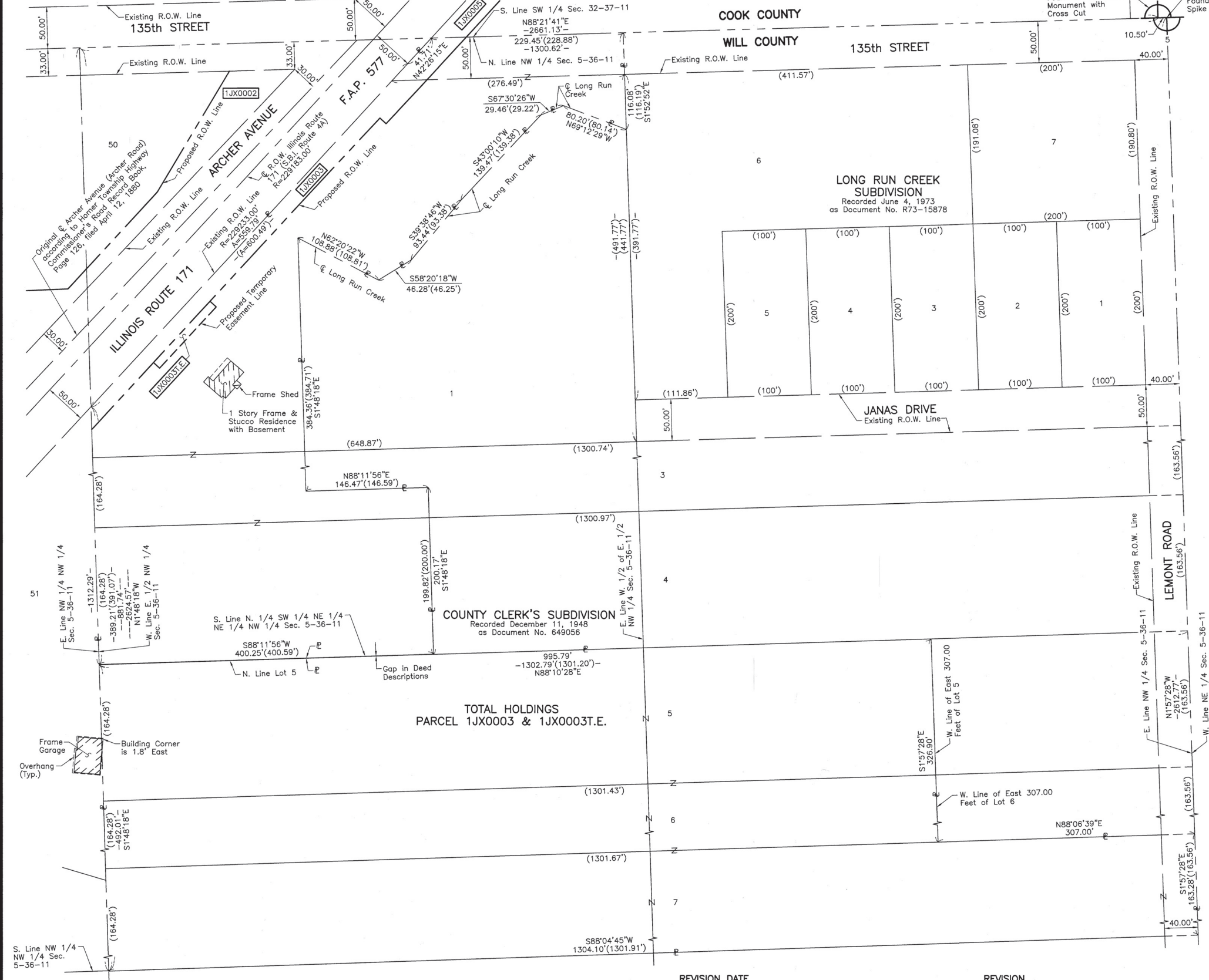
PLAT OF HIGHWAY

SHEET NO. 6 OF 9 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
577	C-1-B	WILL & COOK	186	63

CONTRACT NO. 60H21  
 ILLINOIS FED. AID PROJECT

PART OF THE NW 1/4 OF SEC. 5, TWP. 36 N., R. 11 E. OF THE 3RD. P.M., IN WILL COUNTY, ILLINOIS.



### LEGEND

- SECTION CORNER
- QUARTER SECTION CORNER
- SECTION LINE
- QUARTER SECTION LINE
- QUARTER, QUARTER SECTION LINE
- PLATTED LOT LINE
- PROPERTY (DEED) LINE
- APL APPARENT PROPERTY LINE
- CENTER LINE
- EXISTING RIGHT OF WAY LINE
- PROPOSED RIGHT OF WAY LINE
- PROPOSED EASEMENT
- MEASURED DIMENSION
- COMPUTED DIMENSION
- RECORD DATA
- EXISTING BUILDING

Bearings and Coordinates are referenced to the Illinois Coordinate System NAD 83(2007) East Zone.

- O IRON PIPE OR ROD FOUND
- + CUT CROSS FOUND OR SET
- T1 THESE STAKES REFERENCE FOUND OR SET MONUMENTATION. SET 5/8 INCH IRON ROD FLUSH WITH GROUND TO TIE FOUND IRON STAKE. IDENTIFIED BY COLORED PLASTIC CAP BEARING SURVEYORS REGISTRATION NUMBER.
- T2
- T3
- BT1 THESE STAKES, IN CULTIVATED AREAS, REFERENCE FOUND OR SET MONUMENTATION. BURIED 5/8 INCH IRON ROD 20 INCHES BELOW GROUND TO TIE FOUND IRON STAKE. IDENTIFIED BY COLORED PLASTIC CAP BEARING SURVEYORS REGISTRATION NUMBER.
- BT2
- BT3
- STAKING OF PROPOSED RIGHT OF WAY. SET DIVISION OF HIGHWAYS SURVEY MARKER TO MONUMENT THE POSITION SHOWN. IDENTIFIED BY INSCRIPTION DATA AND SURVEYORS REGISTRATION NUMBER.
- M STAKING OF PROPOSED RIGHT OF WAY IN CULTIVATED AREAS. BURIED 5/8 INCH METAL ROD 20 INCHES BELOW GROUND TO MARK FUTURE SURVEY MARKER POSITION IDENTIFIED BY COLORED PLASTIC CAP BEARING SURVEYORS REGISTRATION NUMBER.
- PERMANENT SURVEY MARKER, I.D.O.T STD 2135 (TO BE SET BY OTHERS)
- RIGHT OF WAY STAKING PROPOSED TO BE SET.

STATE OF ILLINOIS }  
COUNTY OF LAKE }SS

THIS IS TO CERTIFY THAT WE, JORGENSEN & ASSOCIATES, INC., AN ILLINOIS PROFESSIONAL DESIGN FIRM LAND SURVEYING CORPORATION, NUMBER 184-2771, HAVE SURVEYED THE PLAT OF HIGHWAYS SHOWN HEREON IN SECTION 5, TOWNSHIP 36N., RANGE 11E., OF THE THIRD PRINCIPAL MERIDIAN, WILL COUNTY, THAT THE SURVEY IS TRUE AND COMPLETE AS SHOWN TO THE BEST OF MY KNOWLEDGE AND BELIEF, THAT THE PLAT CORRECTLY REPRESENTS SAID SURVEY, THAT ALL MONUMENTS FOUND AND ESTABLISHED ARE OF PERMANENT QUALITY AND OCCUPY THE POSITIONS SHOWN THEREON AND THAT THE MONUMENTS ARE SUFFICIENT TO ENABLE THE SURVEY TO BE RETRACED. MADE FOR THE DEPARTMENT OF TRANSPORTATION, STATE OF ILLINOIS. DATED AT LAKE VILLA, ILLINOIS THIS 25th DAY OF October 20 2012 A.D.

*Christian H. Jorgensen* PRESIDENT  
ILLINOIS PROFESSIONAL LAND SURVEYOR NO. 35-2797  
LICENSE EXPIRATION/DATE: NOVEMBER 30, 2012  
THIS PROFESSIONAL SERVICE CONFORMS TO THE CURRENT ILLINOIS MINIMUM STANDARDS FOR A BOUNDARY SURVEY.



RECEIVED  
MAR 10 2015  
PLAYS & LEGALS

JORGENSEN & ASSOCIATES, INC.  
120 PARK AVENUE  
LAKE VILLA, ILLINOIS 60046  
(847) 356-3371

SHEET 1 IS A COVER  
SHEET AND IS NOT RECORDED.

**PLAT OF HIGHWAYS**  
**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**  
F.A.P. 577 (ILLINOIS ROUTE 171)

SECTION WILL COUNTY  
PROJECT JOB NO. R-91-024-12  
STATION NONE TO STATION  
SCALE: 1"=60' SHEET 8 OF 10

**BUREAU OF LAND ACQUISITION**  
201 WEST CENTER COURT  
SCHAUMBURG, ILLINOIS 60196

ROUTE F.A.P. 577 (ILLINOIS ROUTE 171) SECTION COUNTY WILL JOB NO. R-91-024-12 RECORDING: RECORDED ON AS DOCUMENT NO.

3/8/2016  
**HBM**  
ENGINEERING GROUP, LLC  
CONSULTING & DESIGN  
INSPECTION & RATING  
RESEARCH & TESTING

4415 WEST HARRISON ST.  
SUITE 231  
HILLSIDE, IL 60162  
PHONE: (708) 236-0900  
FAX: (708) 236-0901

DESIGNED -	REVISED -
DRAWN -	REVISED -
CHECKED -	REVISED -
PLOT DATE = 03/08/2016	DATE - 5/30/2014

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

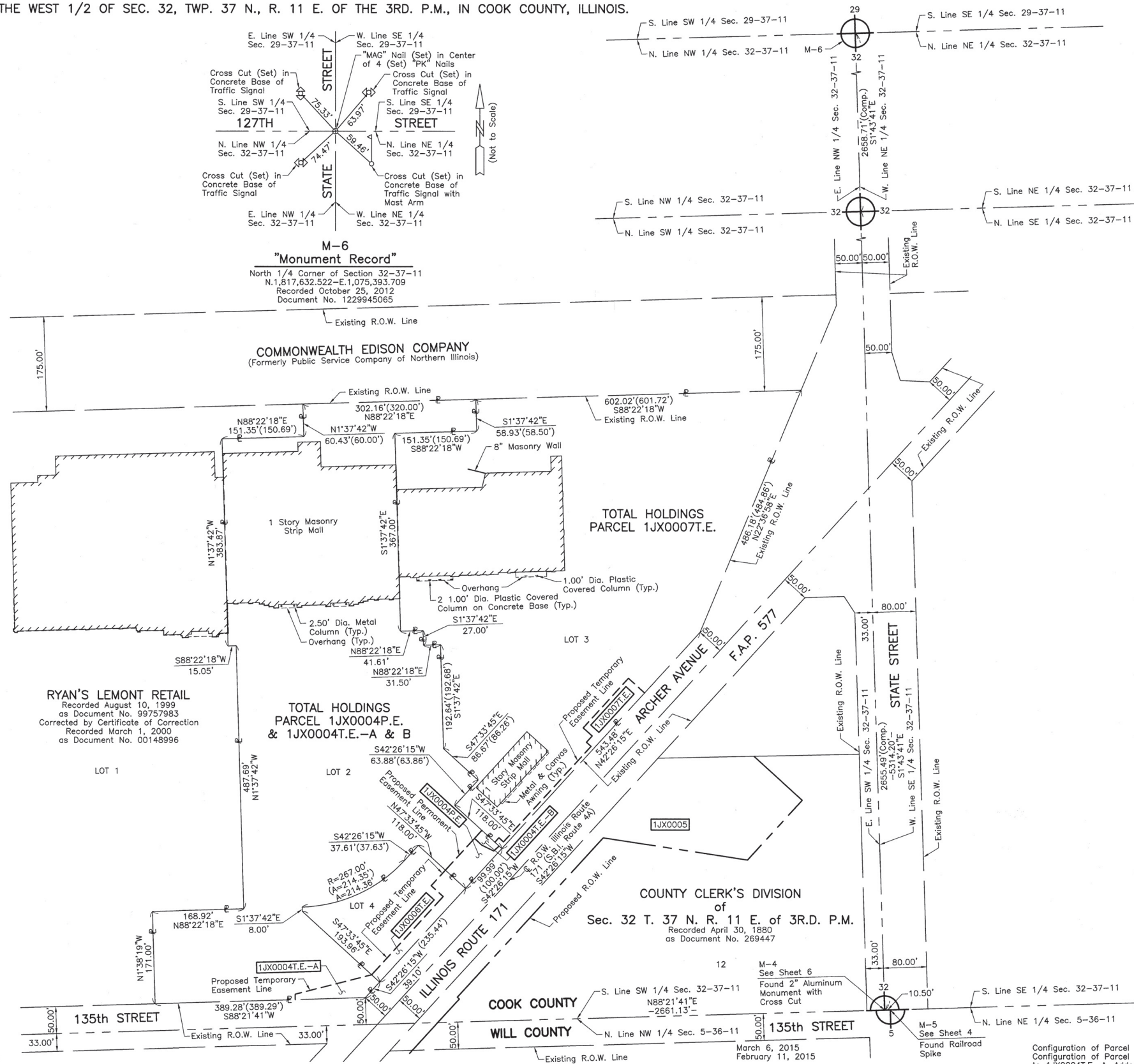
PLAT OF HIGHWAY

SHEET NO. 7 OF 9 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
577	C-1-B	WILL & COOK	186	64
CONTRACT NO. 60H21				
ILLINOIS FED. AID PROJECT				



PART OF THE WEST 1/2 OF SEC. 32, TWP. 37 N., R. 11 E. OF THE 3RD. P.M., IN COOK COUNTY, ILLINOIS.



**LEGEND**

- SECTION CORNER
- QUARTER SECTION CORNER
- SECTION LINE
- QUARTER SECTION LINE
- QUARTER, QUARTER SECTION LINE
- PLATTED LOT LINE
- PROPERTY (DEED) LINE
- APL
- APPARENT PROPERTY LINE
- CENTER LINE
- EXISTING RIGHT OF WAY LINE
- PROPOSED RIGHT OF WAY LINE
- PROPOSED EASEMENT
- MEASURED DIMENSION
- COMPUTED DIMENSION
- RECORD DATA
- EXISTING BUILDING

Bearings and Coordinates are referenced to the Illinois Coordinate System NAD 83(2007) East Zone.

- IRON PIPE OR ROD FOUND
- ⊕ "MAG" NAIL SET
- + CUT CROSS FOUND OR SET
- 5/8" REBAR SET
- T1 THESE STAKES REFERENCE FOUND OR SET MONUMENTATION. SET 5/8 INCH IRON ROD FLUSH WITH GROUND TO THE FOUND IRON STAKE. IDENTIFIED BY COLORED PLASTIC CAP BEARING SURVEYORS REGISTRATION NUMBER.
- BT1 THESE STAKES, IN CULTIVATED AREAS, REFERENCE FOUND OR SET MONUMENTATION. BURIED 5/8 INCH IRON ROD 20 INCHES BELOW GROUND TO THE FOUND IRON STAKE. IDENTIFIED BY COLORED PLASTIC CAP BEARING SURVEYORS REGISTRATION NUMBER.
- STAKING OF PROPOSED RIGHT OF WAY. SET DIVISION OF HIGHWAYS SURVEY MARKER TO MONUMENT THE POSITION SHOWN. IDENTIFIED BY INSCRIPTION DATA AND SURVEYORS REGISTRATION NUMBER.
- M STAKING OF PROPOSED RIGHT OF WAY IN CULTIVATED AREAS. BURIED 5/8 INCH METAL ROD 20 INCHES BELOW GROUND TO MARK FUTURE SURVEY MARKER POSITION IDENTIFIED BY COLORED PLASTIC CAP BEARING SURVEYORS REGISTRATION NUMBER.
- ⊙ PERMANENT SURVEY MARKER, I.D.O.T STD 2135 (TO BE SET BY OTHERS)
- RIGHT OF WAY STAKING PROPOSED TO BE SET.

STATE OF ILLINOIS }  
COUNTY OF LAKE } SS

THIS IS TO CERTIFY THAT WE, JORGENSEN & ASSOCIATES, INC., AN ILLINOIS PROFESSIONAL DESIGN FIRM LAND SURVEYING CORPORATION, NUMBER 184-2771, HAVE SURVEYED THE PLAT OF HIGHWAYS SHOWN HEREON IN SECTION 32, TOWNSHIP 37N., RANGE 11E., OF THE THIRD PRINCIPAL MERIDIAN, COOK COUNTY, THAT THE SURVEY IS TRUE AND COMPLETE AS SHOWN TO THE BEST OF MY KNOWLEDGE AND BELIEF. THAT THE PLAT CORRECTLY REPRESENTS SAID SURVEY, THAT ALL MONUMENTS FOUND AND ESTABLISHED ARE OF PERMANENT QUALITY AND OCCUPY THE POSITIONS SHOWN THEREON AND THAT THE MONUMENTS ARE SUFFICIENT TO ENABLE THE SURVEY TO BE RETRACED. MADE FOR THE DEPARTMENT OF TRANSPORTATION, STATE OF ILLINOIS. DATED AT LAKE VILLA, ILLINOIS THIS 25th DAY OF October 20 12 A.D.

*Christian H. Jorgensen* PRESIDENT  
ILLINOIS PROFESSIONAL LAND SURVEYOR NO. 35-2797  
LICENSE EXPIRATION DATE, NOVEMBER 30, 2012  
THIS PROFESSIONAL SERVICE CONFORMS TO THE CURRENT ILLINOIS MINIMUM STANDARDS FOR A BOUNDARY SURVEY.  
Note: Surface Coordinates are Shown.



JORGENSEN & ASSOCIATES, INC.  
120 PARK AVENUE  
LAKE VILLA, ILLINOIS 60046  
(847) 356-3371

SHEET 1 IS A COVER SHEET AND IS NOT RECORDED.

**PLAT OF HIGHWAYS**  
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION  
F.A.P. 577 (ILLINOIS ROUTE 171)

SECTION C-1-B  
PROJECT COOK COUNTY  
STATION NONE TO STATION  
SCALE: 1"=100'  
SHEET 9 OF 10

**BUREAU OF LAND ACQUISITION**  
201 WEST CENTER COURT  
SCHAUMBURG, ILLINOIS 60196

AS DOCUMENT NO.

RECEIVED  
MAR 10 2015  
PLATS & LEGALS

MADE BY

ROUTE F.A.P. 577 (ILLINOIS ROUTE 171) SECTION COUNTY COOK JOB NO. R-91-024-12 RECORDING: RECORDED ON AS DOCUMENT NO.

3/8/2016  
**HBM**  
ENGINEERING GROUP, LLC  
CONSULTING & DESIGN  
INSPECTION & RATING  
RESEARCH & TESTING

4415 WEST HARRISON ST.  
SUITE 231  
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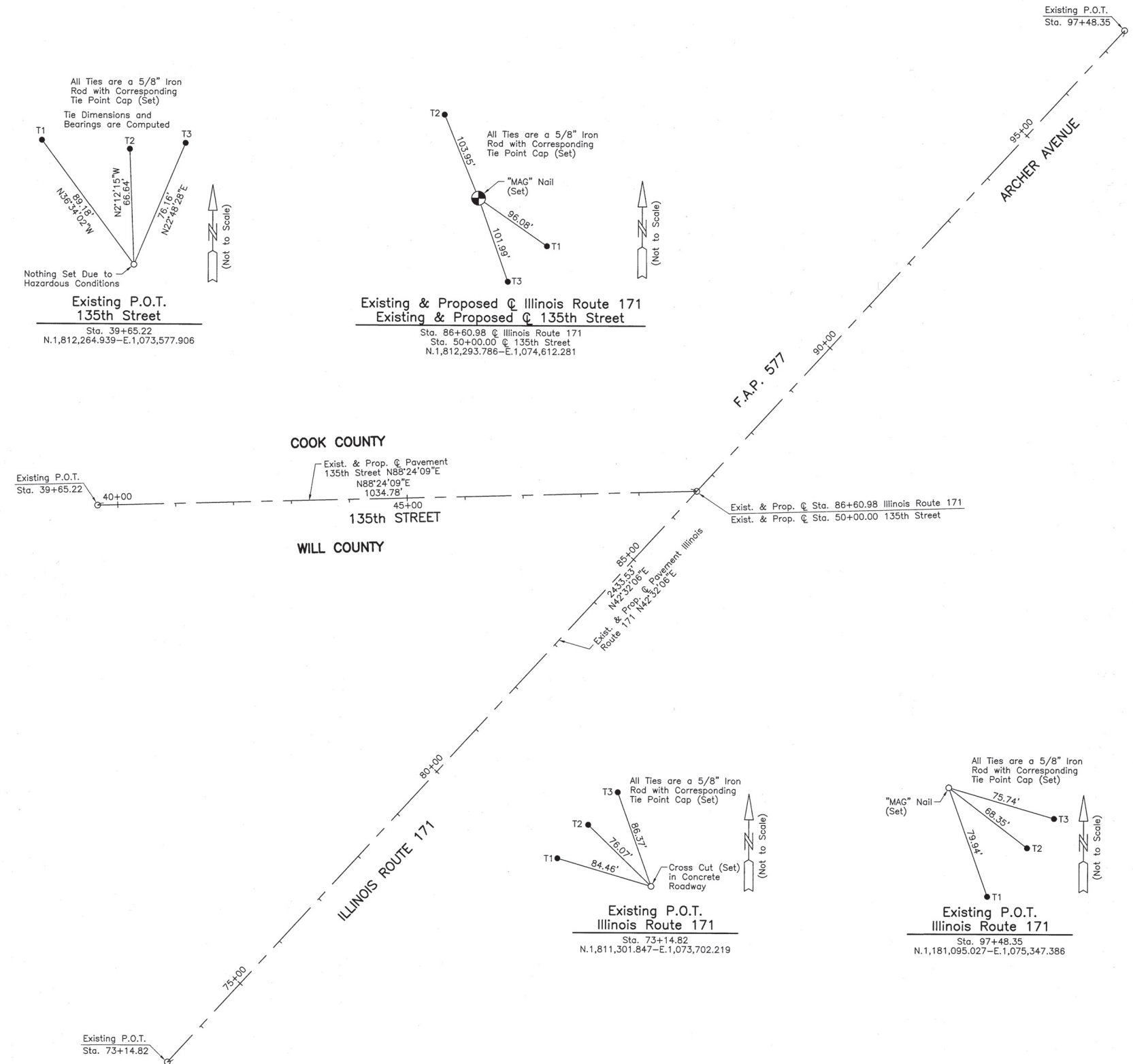
DESIGNED	-	REVISED	-
DRAWN	-	REVISED	-
CHECKED	-	REVISED	-
PLOT DATE	= 03/08/2016	DATE	= 5/30/2014

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

PLAT OF HIGHWAY  
SHEET NO. 8 OF 9 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
577	C-1-B	WILL & COOK	186	65
CONTRACT NO. 60H21				
ILLINOIS FED. AID PROJECT				

PART OF THE NW 1/4 OF SEC. 5, TWP. 36 N., R. 11 E. OF THE 3RD. P.M., IN WILL COUNTY, ILLINOIS AND PART OF THE SW 1/4 OF SEC. 32, TWP. 37 N., R. 11 E. OF THE 3RD. P.M., IN COOK COUNTY, ILLINOIS.



### LEGEND

- SECTION CORNER
- QUARTER SECTION CORNER
- SECTION LINE
- QUARTER SECTION LINE
- QUARTER, QUARTER SECTION LINE
- PLATTED LOT LINE
- PROPERTY (DEED) LINE
- APL
- APPARENT PROPERTY LINE
- CENTER LINE
- EXISTING RIGHT OF WAY LINE
- PROPOSED RIGHT OF WAY LINE
- PROPOSED EASEMENT
- MEASURED DIMENSION
- COMPUTED DIMENSION
- RECORD DATA
- EXISTING BUILDING

Scale: 1"=100'

- Bearings and Coordinates are referenced to the Illinois Coordinate System NAD 83(2007) East Zone.
- IRON PIPE OR ROD FOUND
  - ⊕ "MAG" NAIL SET
  - + CUT CROSS FOUND OR SET
  - 5/8" REBAR SET
  - T1 THESE STAKES REFERENCE FOUND OR SET MONUMENTATION. SET 5/8 INCH IRON ROD FLUSH WITH GROUND TO TIE FOUND IRON STAKE. IDENTIFIED BY COLORED PLASTIC CAP BEARING SURVEYORS REGISTRATION NUMBER.
  - T2
  - T3
  - BT1 THESE STAKES, IN CULTIVATED AREAS, REFERENCE FOUND OR SET MONUMENTATION. BURIED 5/8 INCH IRON ROD 20 INCHES BELOW GROUND TO TIE FOUND IRON STAKE. IDENTIFIED BY COLORED PLASTIC CAP BEARING SURVEYORS REGISTRATION NUMBER.
  - BT2
  - BT3
  - STAKING OF PROPOSED RIGHT OF WAY. SET DIVISION OF HIGHWAYS SURVEY MARKER TO MONUMENT THE POSITION SHOWN. IDENTIFIED BY INSCRIPTION DATA AND SURVEYORS REGISTRATION NUMBER.
  - M STAKING OF PROPOSED RIGHT OF WAY IN CULTIVATED AREAS. BURIED 5/8 INCH METAL ROD 20 INCHES BELOW GROUND TO MARK FUTURE SURVEY MARKER POSITION IDENTIFIED BY COLORED PLASTIC CAP BEARING SURVEYORS REGISTRATION NUMBER.
  - ⊙ PERMANENT SURVEY MARKER, I.D.O.T STD 2135 (TO BE SET BY OTHERS)
  - RIGHT OF WAY STAKING PROPOSED TO BE SET.

STATE OF ILLINOIS }  
COUNTY OF LAKE }

THIS IS TO CERTIFY THAT WE, JORGENSEN & ASSOCIATES, INC., AN ILLINOIS PROFESSIONAL DESIGN FIRM LAND SURVEYING CORPORATION, NUMBER 184-2771, HAVE SURVEYED THE PLAT OF HIGHWAYS SHOWN HEREON BETWEEN SECTION 5, TOWNSHIP 36N., RANGE 11E., OF THE THIRD PRINCIPAL MERIDIAN, WILL COUNTY AND SECTION 32, TOWNSHIP 37N., RANGE 11E., OF THE THIRD PRINCIPAL MERIDIAN, COOK COUNTY, THAT THE SURVEY IS TRUE AND COMPLETE AS SHOWN TO THE BEST OF MY KNOWLEDGE AND BELIEF, THAT THE PLAT CORRECTLY REPRESENTS SAID SURVEY, THAT ALL MONUMENTS FOUND AND ESTABLISHED ARE OF PERMANENT QUALITY AND OCCUPY THE POSITIONS SHOWN THEREON AND THAT THE MONUMENTS ARE SUFFICIENT TO ENABLE THE SURVEY TO BE RETRACED. MADE FOR THE DEPARTMENT OF TRANSPORTATION, STATE OF ILLINOIS.

DATED AT LAKE VILLA, ILLINOIS THIS 11th DAY OF December 2014 A.D.

*Christian H. Jorgensen* PRESIDENT  
ILLINOIS PROFESSIONAL LAND SURVEYOR NO. 35-2797  
LICENSE EXPIRATION DATE: NOVEMBER 30, 2014  
THIS PROFESSIONAL SERVICE CONFORMS TO THE CURRENT ILLINOIS MINIMUM STANDARDS FOR A BOUNDARY SURVEY.  
Note: Surface Coordinates are Shown.



RECEIVED  
MAR 10 2015  
PLATS & LEGALS

JORGENSEN & ASSOCIATES, INC.  
120 PARK AVENUE  
LAKE VILLA, ILLINOIS 60046  
(847) 356-3371

SHEET 1 IS A COVER SHEET AND IS NOT RECORDED.

### PLAT OF HIGHWAYS STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

F.A.P. 577 (ILLINOIS ROUTE 171)

SECTION WILL & COOK COUNTY  
PROJECT JOB NO. R-91-024-12  
STATION 39+65.22 TO STATION 50+00.00  
STATION 73+14.82 TO STATION 97+48.35  
SCALE: 1"=100' SHEET 10 OF 10

BUREAU OF LAND ACQUISITION  
201 WEST CENTER COURT  
SCHAUMBURG, ILLINOIS 60196

ROUTE F.A.P. 577 (ILLINOIS ROUTE 171) SECTION COUNTY WILL & COOK JOB NO. R-91-024-12 RECORDING: RECORDED ON AS DOCUMENT NO.

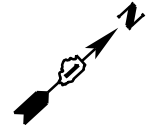
3/8/2016  
**HBM**  
ENGINEERING GROUP, LLC  
CONSULTING & DESIGN  
INSPECTION & TESTING  
RESEARCH & TESTING

DESIGNED -	REVISED -
DRAWN -	REVISED -
CHECKED -	REVISED -
PLOT DATE = 03/08/2016	DATE - 5/30/2014

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

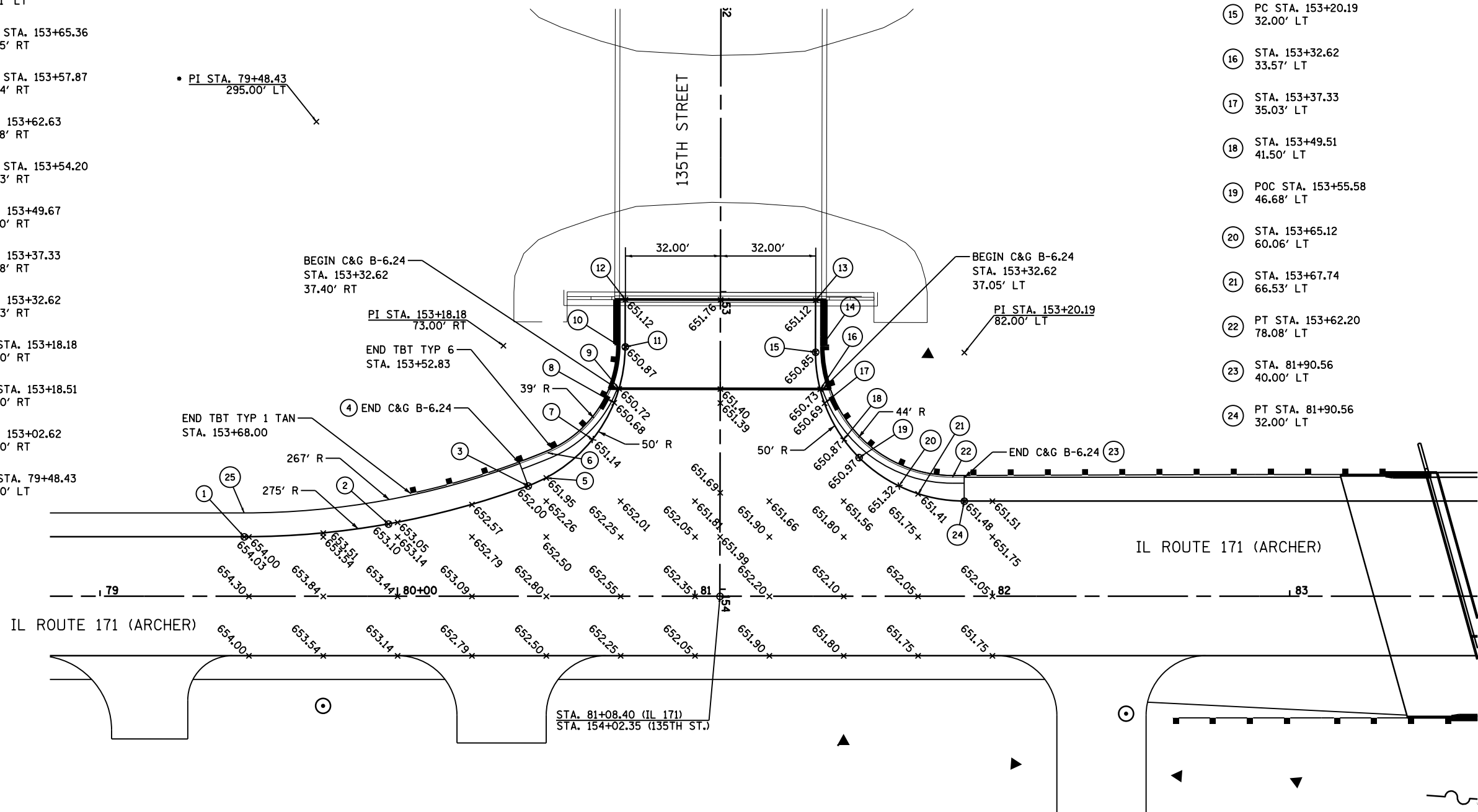
PLAT OF HIGHWAY  
SHEET NO. 9 OF 9 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
577	C-1-B	WILL & COOK	186	66
CONTRACT NO. 60H21				
ILLINOIS FED. AID PROJECT				



- ① PT STA. 79+48.43  
20.00' LT
- ② POC STA. 79+96.94  
24.31' LT
- ③ PCC STA. 153+65.36  
64.55' RT
- ④ PCC STA. 153+57.87  
67.34' RT
- ⑤ STA. 153+62.63  
58.48' RT
- ⑥ PCC STA. 153+54.20  
58.03' RT
- ⑦ STA. 153+49.67  
42.90' RT
- ⑧ STA. 153+37.33  
35.68' RT
- ⑨ STA. 153+32.62  
34.03' RT
- ⑩ PC STA. 153+18.18  
34.00' RT
- ⑪ PC STA. 153+18.51  
32.00' RT
- ⑫ STA. 153+02.62  
32.00' RT
- ⑮ PT STA. 79+48.43  
28.00' LT

- ⑬ STA. 153+02.62  
32.00' LT
- ⑭ PC STA. 153+18.20  
34.00' LT
- ⑮ PC STA. 153+20.19  
32.00' LT
- ⑯ STA. 153+32.62  
33.57' LT
- ⑰ STA. 153+37.33  
35.03' LT
- ⑱ STA. 153+49.51  
41.50' LT
- ⑲ POC STA. 153+55.58  
46.68' LT
- ⑳ STA. 153+65.12  
60.06' LT
- ㉑ STA. 153+67.74  
66.53' LT
- ㉒ PT STA. 153+62.20  
78.08' LT
- ㉓ STA. 81+90.56  
40.00' LT
- ㉔ PT STA. 81+90.56  
32.00' LT



• PI STA. 79+48.43  
295.00' LT

• NOTE:  
CURVE PI LOCATION SHOWN FOR REFERENCE.  
SEE STATION AND OFFSET INFORMATION FOR EXACT LOCATION

F:\168972 IL 171 at 135th Street\168972-171-135th-street-101.dwg

**PARSONS  
BRINCKERHOFF**  
230 West Monroe St., Suite 900  
Chicago, IL 60606, (312) 782-8150

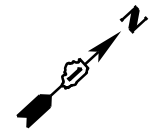
USER NAME = clemosc	DESIGNED - CJC	REVISED -
DRAWN - CJC	REVISED -	
PLOT SCALE = 1" = 20'	CHECKED - RFT	REVISED -
PLOT DATE = 17-MAR-2016	DATE - 3/18/2016	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

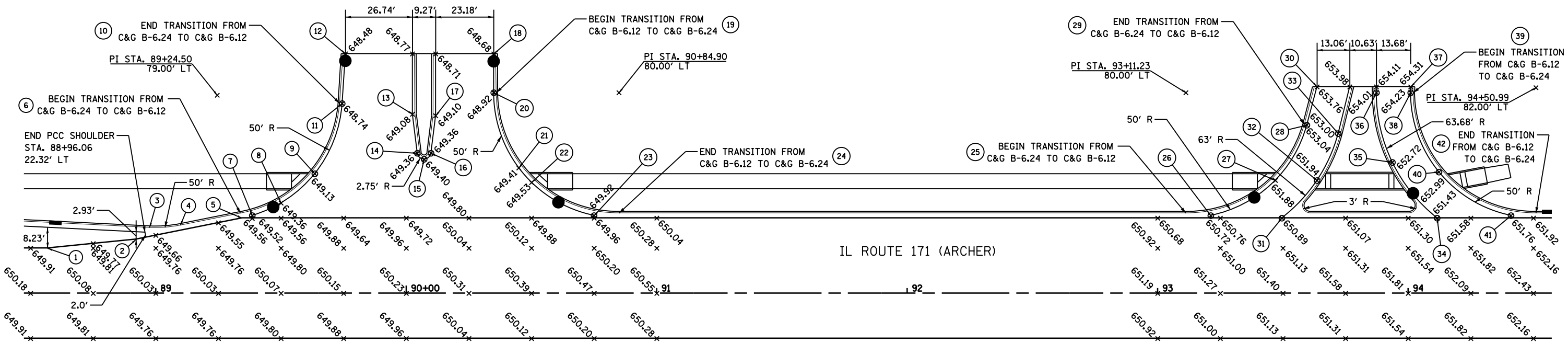
**IL 171 AT 135TH STREET  
INTERSECTION DETAIL**

SCALE: 1" = 20'    SHEET NO. 1 OF 2 SHEETS    STA.    TO STA.

F.A.P. RTE. 577	SECTION C-1-B	COUNTY WILL/COOK	TOTAL SHEETS 186	SHEET NO. 67
CONTRACT NO. 60H21			ILLINOIS FED. AID PROJECT	



- ① STA. 88+56.76  
18.00' LT
- ② STA. 88+92.13  
21.54' LT
- ③ PC STA. 88+97.47  
26.20' LT
- ④ PT STA. 89+09.78  
27.11' LT
- ⑤ STA. 89+34.44  
30.00' LT
- ⑥ PC STA. 89+33.78  
31.91' LT
- ⑦ PC STA. 89+38.50  
31.00' LT
- ⑧ STA. 89+50.00  
35.99' LT
- ⑨ POC STA. 89+63.48  
47.69' LT
- ⑩ STA. 89+73.39  
75.74' LT
- ⑪ PT STA. 89+74.39  
75.67' LT
- ⑫ STA. 89+75.71  
95.47' LT
- ⑬ STA. 90+02.45  
71.43' LT
- ⑭ PC STA. 90+04.39  
55.88' LT
- ⑮ POC STA. 90+07.12  
53.47' LT
- ⑯ PT STA. 90+09.85  
55.88' LT
- ⑰ STA. 90+11.72  
70.82' LT
- ⑱ STA. 90+34.90  
95.47' LT
- ⑲ PC STA. 90+35.90  
80.00' LT
- ⑳ PC STA. 90+34.90  
80.00' LT
- ㉑ STA. 90+44.90  
50.00' LT
- ㉒ STA. 90+50.00  
44.19' LT
- ㉓ PT STA. 90+74.95  
31.00' LT
- ㉔ PT STA. 90+84.90  
32.00' LT



- ㉕ PC STA. 93+11.23  
32.00' LT
- ㉖ PC STA. 93+21.18  
31.00' LT
- ㉗ STA. 93+46.97  
45.04' LT
- ㉘ PT STA. 93+59.53  
67.06' LT
- ㉙ PT STA. 93+58.56  
67.32' LT
- ㉚ STA. 93+63.61  
82.31' LT
- ㉛ PC STA. 93+49.56  
30.00' LT
- ㉜ POC STA. 93+63.61  
44.99' LT
- ㉝ PT STA. 93+72.09  
63.69' LT
- ㉞ PC STA. 94+11.55  
30.00' LT
- ㉟ POC STA. 93+93.69  
52.22' LT
- ㊱ PT STA. 93+87.31  
80.00' LT
- ㊲ STA. 94+00.99  
82.31' LT
- ㊳ PT STA. 94+00.99  
80.00' LT
- ㊴ PT STA. 94+01.99  
80.00' LT
- ㊵ POC STA. 94+12.27  
48.36' LT
- ㊶ PC STA. 94+41.04  
31.00' LT
- ㊷ PC STA. 94+50.99  
32.00' LT

I:\60924\_IL\_171\_12510\01\171\171-Intersect\171-Intersect.dwg

**PARSONS BRINCKERHOFF**  
 230 West Monroe St., Suite 900  
 Chicago, IL 60606, (312) 782-8150

USER NAME = clemosc	DESIGNED - CJC	REVISED -
PLOT SCALE = 1" = 20'	DRAWN - CJC	REVISED -
PLOT DATE = 17-MAR-2016	CHECKED - RFT	REVISED -
	DATE - 3/18/2016	REVISED -

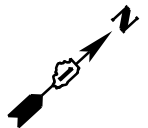
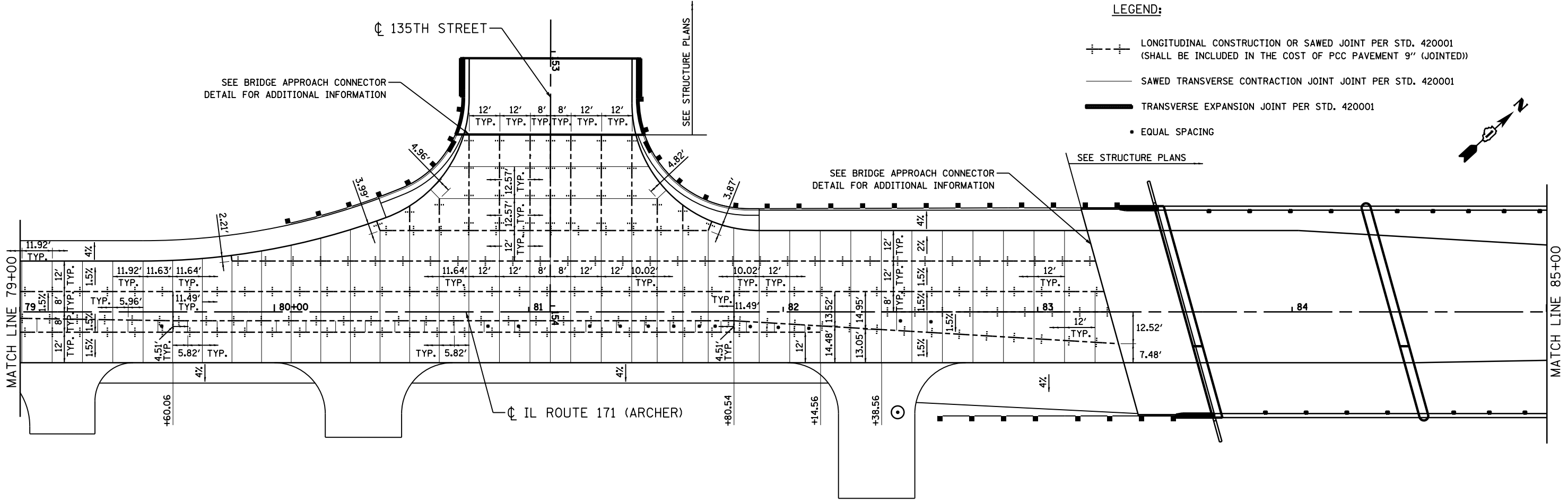
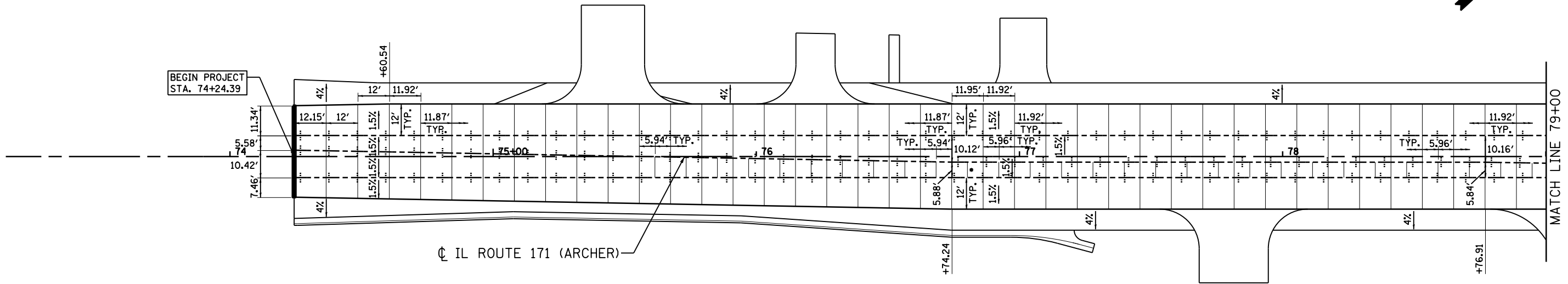
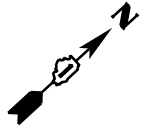
**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

**IL 171**  
**INTERSECTION DETAILS**  
 SCALE: 1" = 20'    SHEET NO. 2 OF 2    SHEETS    STA.    TO STA.

F.A.P. RTE. 577	SECTION C-1-B	COUNTY WILL/COOK	TOTAL SHEETS 186	SHEET NO. 68
ILLINOIS FED. AID PROJECT			CONTRACT NO. 60H21	

**NOTES:**

1. PLACE LONGITUDINAL CONSTRUCTION JOINT ALONG CURB AND GUTTERS AS SHOWN ON THE TYPICAL SECTIONS.
2. PLACE TRANSVERSE CONTRACTION AND EXPANSION JOINTS ON SHOULDERS PER STD. 483001. MATCH ALL CORRESPONDING JOINTS IN THE ADJACENT PAVEMENT.



F:\68972 IL 171 - 135th Street\Structure\171-struct-ent01.dwg

**PARSONS BRINCKERHOFF**  
 230 West Monroe St., Suite 900  
 Chicago, IL 60606, (312) 782-8150

USER NAME = clemosc	DESIGNED - CJC	REVISED -
PLOT SCALE = 1" = 20'	DRAWN - CJC	REVISED -
PLOT DATE = 26-MAR-2016	CHECKED - RFT	REVISED -
	DATE - 3/26/2016	REVISED -

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

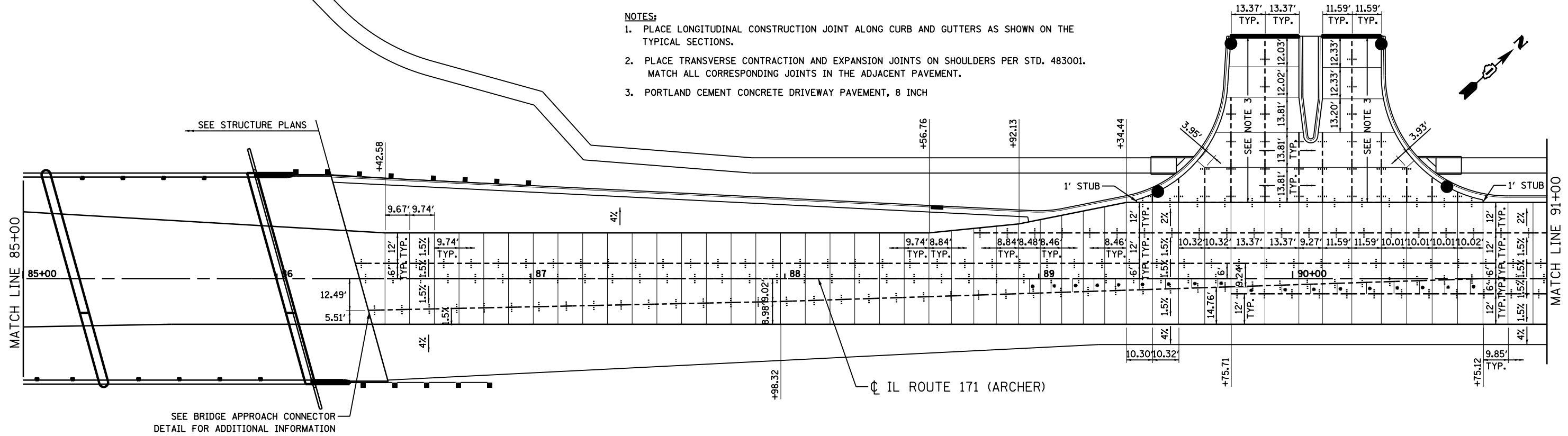
**IL 171 JOINTING PLAN**

SCALE: 1" = 20'    SHEET NO. 1 OF 2 SHEETS    STA. 74+24.39 TO STA. 85+00.00

F.A.P. RTE. 577	SECTION C-1-B	COUNTY WILL/COOK	TOTAL SHEETS 186	SHEET NO. 69
CONTRACT NO. 60H21			ILLINOIS FED. AID PROJECT	

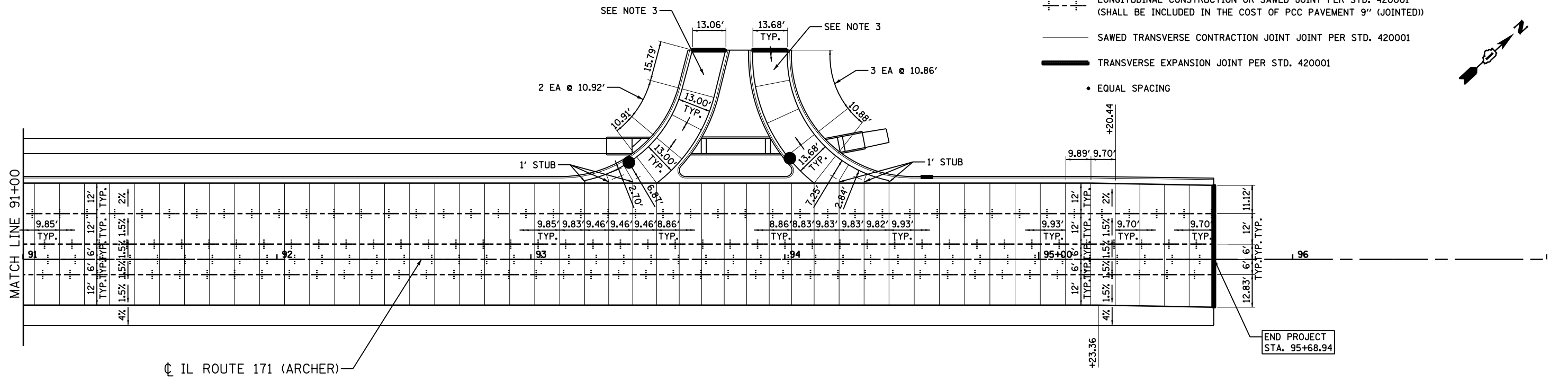
**NOTES:**

1. PLACE LONGITUDINAL CONSTRUCTION JOINT ALONG CURB AND GUTTERS AS SHOWN ON THE TYPICAL SECTIONS.
2. PLACE TRANSVERSE CONTRACTION AND EXPANSION JOINTS ON SHOULDERS PER STD. 483001. MATCH ALL CORRESPONDING JOINTS IN THE ADJACENT PAVEMENT.
3. PORTLAND CEMENT CONCRETE DRIVEWAY PAVEMENT, 8 INCH



**LEGEND:**

- LONGITUDINAL CONSTRUCTION OR SAWED JOINT PER STD. 420001 (SHALL BE INCLUDED IN THE COST OF PCC PAVEMENT 9" (JOINTED))
- SAWED TRANSVERSE CONTRACTION JOINT PER STD. 420001
- TRANSVERSE EXPANSION JOINT PER STD. 420001
- EQUAL SPACING



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**PARSONS BRINCKERHOFF**  
 230 West Monroe St., Suite 900  
 Chicago, IL 60606, (312) 782-8150

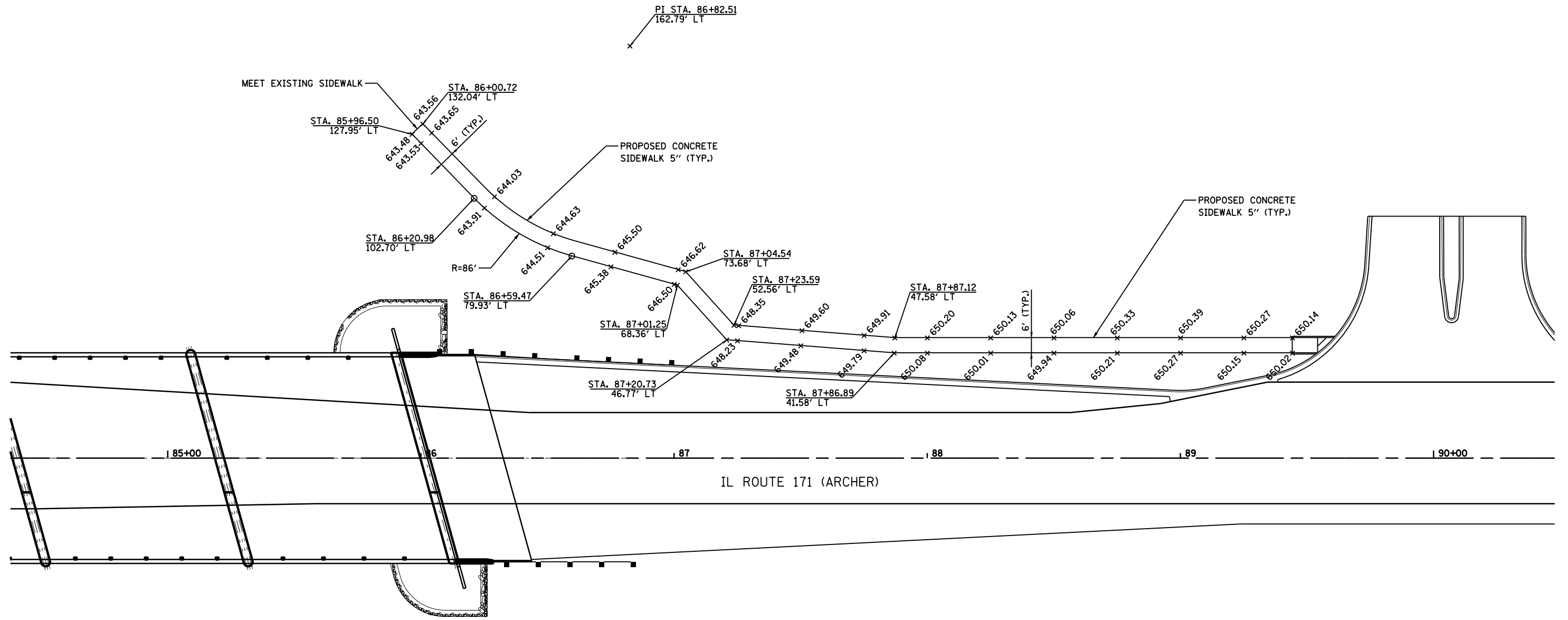
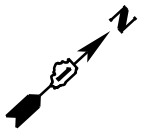
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PLOT SCALE = 1" = 20'	DRAWN - CJC	REVISED -
PLOT DATE = 26-MAR-2016	CHECKED - RFT	REVISED -
	DATE - 3/26/2016	REVISED -

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**IL 171 JOINTING PLAN**

SCALE: 1" = 20'    SHEET NO. 2 OF 2    SHEETS    STA. 85+00.00    TO STA. 95+68.94

F.A.P. RTE. 577	SECTION C-1-B	COUNTY WILL/COOK	TOTAL SHEETS 186	SHEET NO. 70
CONTRACT NO. 60H21			ILLINOIS FED. AID PROJECT	



I:\68972 IL 171 - 12514\Drawings\171-Sidewalks.dwg

**PARSONS BRINCKERHOFF**  
 230 West Monroe St., Suite 900  
 Chicago, IL 60606, (312) 782-8150

USER NAME = clemosc	DESIGNED - CJC	REVISED -
PLOT SCALE = 1" = 20'	DRAWN - CJC	REVISED -
PLOT DATE = 17-MAR-2016	CHECKED - RFT	REVISED -
	DATE - 3/18/2016	REVISED -

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

IL 171 SIDEWALK DETAILS	
SCALE: 1" = 20'	SHEET NO. 1 OF 1 SHEETS
STA.	TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
577	C-1-B	WILL/COOK	186	71
CONTRACT NO. 60H21				
ILLINOIS FED. AID PROJECT				

NOTES:  
 PROPOSED PAVEMENT MARKINGS SHOWN  
 PAST THE PROJECT LIMITS SHALL BE  
 REFRESHED.

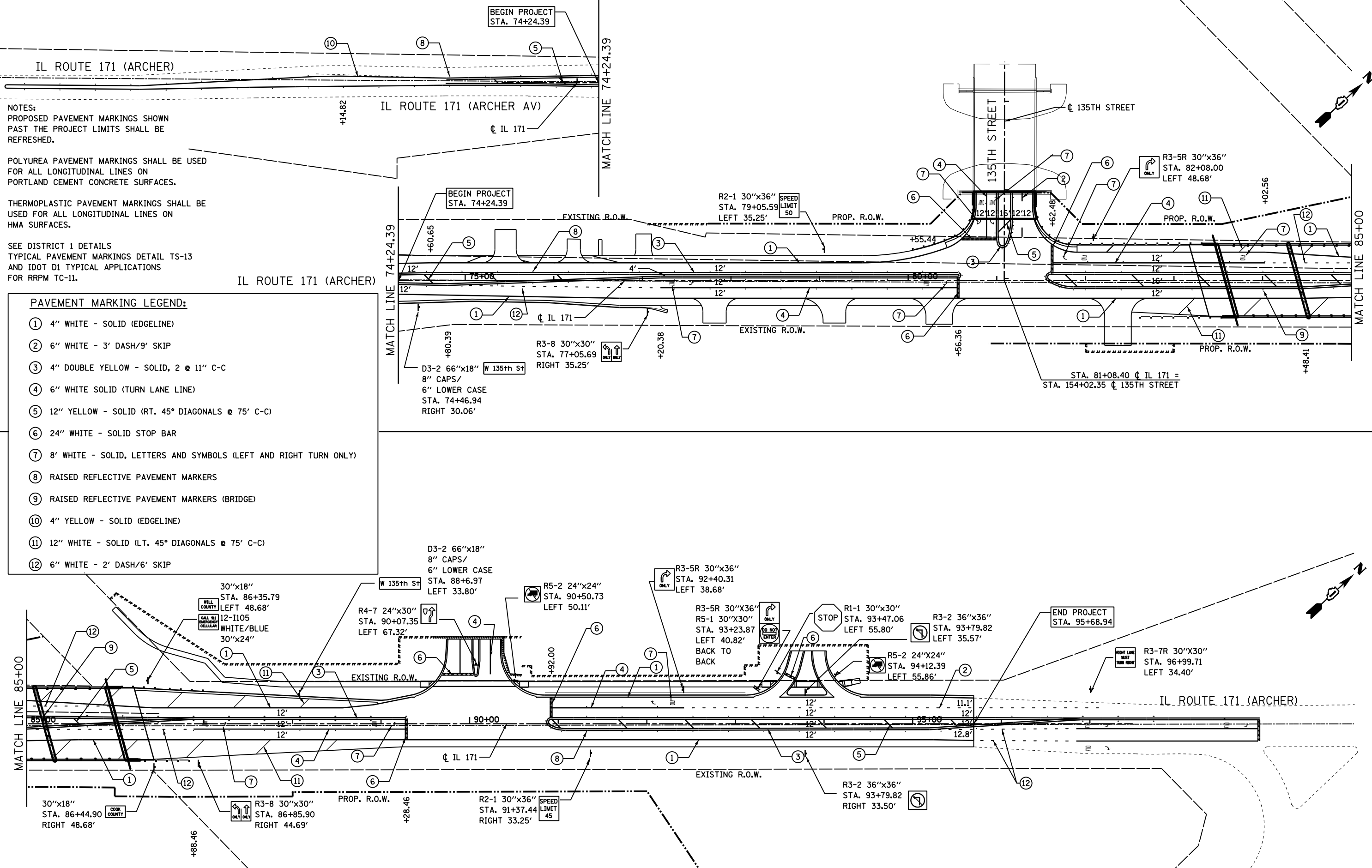
POLYUREA PAVEMENT MARKINGS SHALL BE USED  
 FOR ALL LONGITUDINAL LINES ON  
 PORTLAND CEMENT CONCRETE SURFACES.

THERMOPLASTIC PAVEMENT MARKINGS SHALL BE  
 USED FOR ALL LONGITUDINAL LINES ON  
 HMA SURFACES.

SEE DISTRICT 1 DETAILS  
 TYPICAL PAVEMENT MARKINGS DETAIL TS-13  
 AND IDOT D1 TYPICAL APPLICATIONS  
 FOR RRP TC-11.

**PAVEMENT MARKING LEGEND:**

- ① 4" WHITE - SOLID (EDGE LINE)
- ② 6" WHITE - 3' DASH/9' SKIP
- ③ 4" DOUBLE YELLOW - SOLID, 2 @ 11" C-C
- ④ 6" WHITE SOLID (TURN LANE LINE)
- ⑤ 12" YELLOW - SOLID (RT. 45° DIAGONALS @ 75' C-C)
- ⑥ 24" WHITE - SOLID STOP BAR
- ⑦ 8" WHITE - SOLID, LETTERS AND SYMBOLS (LEFT AND RIGHT TURN ONLY)
- ⑧ RAISED REFLECTIVE PAVEMENT MARKERS
- ⑨ RAISED REFLECTIVE PAVEMENT MARKERS (BRIDGE)
- ⑩ 4" YELLOW - SOLID (EDGE LINE)
- ⑪ 12" WHITE - SOLID (LT. 45° DIAGONALS @ 75' C-C)
- ⑫ 6" WHITE - 2' DASH/6' SKIP



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 Chicago, IL 60606, (312) 782-8150

USER NAME = gulickor	DESIGNED - CJC	REVISED -
PLOT SCALE = 1" = 50'	DRAWN - CJC	REVISED -
PLOT DATE = 14-APR-2016	CHECKED - RFT	REVISED -
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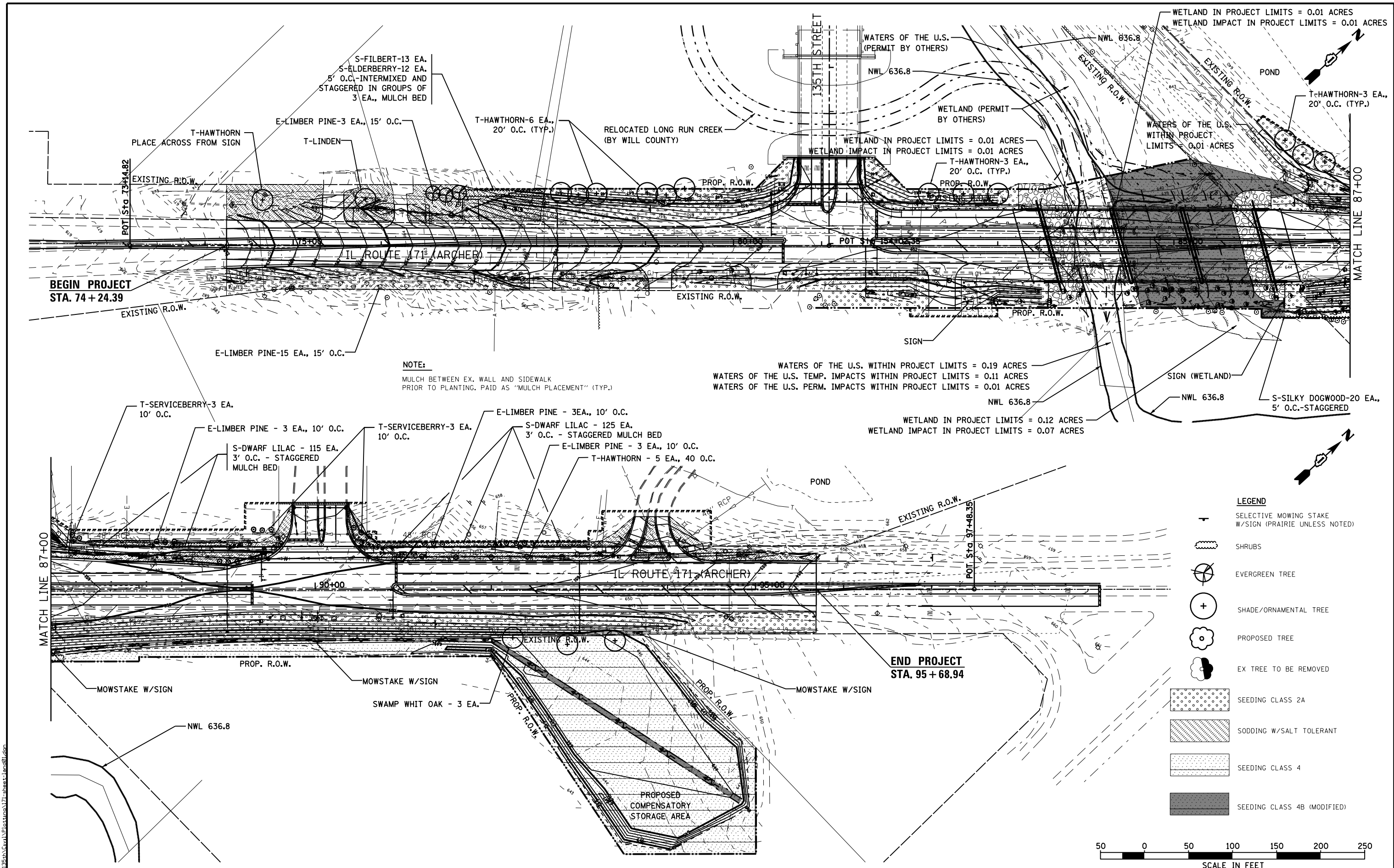
**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**PAVEMENT MARKING  
 PAVEMENT MARKING AND SIGNING PLAN**

SCALE: 1" = 50' SHEET NO. 1 OF 1 SHEETS STA. 74+24.39 TO STA. 95+68.94

F.A.P. RTE. 577	SECTION C-1-B	COUNTY WILL/COOK	TOTAL SHEETS 186	SHEET NO. 72
CONTRACT NO. 60H21			ILLINOIS FED. AID PROJECT	





**NOTE:**  
 MULCH BETWEEN EX. WALL AND SIDEWALK  
 PRIOR TO PLANTING. PAID AS "MULCH PLACEMENT" (TYP.)

WATERS OF THE U.S. WITHIN PROJECT LIMITS = 0.19 ACRES  
 WATERS OF THE U.S. TEMP. IMPACTS WITHIN PROJECT LIMITS = 0.11 ACRES  
 WATERS OF THE U.S. PERM. IMPACTS WITHIN PROJECT LIMITS = 0.01 ACRES

WETLAND IN PROJECT LIMITS = 0.12 ACRES  
 WETLAND IMPACT IN PROJECT LIMITS = 0.07 ACRES

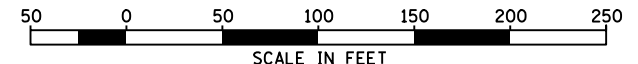
WETLAND IN PROJECT LIMITS = 0.01 ACRES  
 WETLAND IMPACT IN PROJECT LIMITS = 0.01 ACRES

WATERS OF THE U.S.  
 WITHIN PROJECT  
 LIMITS = 0.01 ACRES

**BEGIN PROJECT**  
 STA. 74 + 24.39

**END PROJECT**  
 STA. 95 + 68.94

- LEGEND**
- SELECTIVE MOWING STAKE W/SIGN (PRAIRIE UNLESS NOTED)
  - SHRUBS
  - EVERGREEN TREE
  - SHADE/ORNAMENTAL TREE
  - PROPOSED TREE
  - EX TREE TO BE REMOVED
  - SEEDING CLASS 2A
  - SODDING W/SALT TOLERANT
  - SEEDING CLASS 4
  - SEEDING CLASS 4B (MODIFIED)



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 Chicago, IL 60606, (312) 782-8150

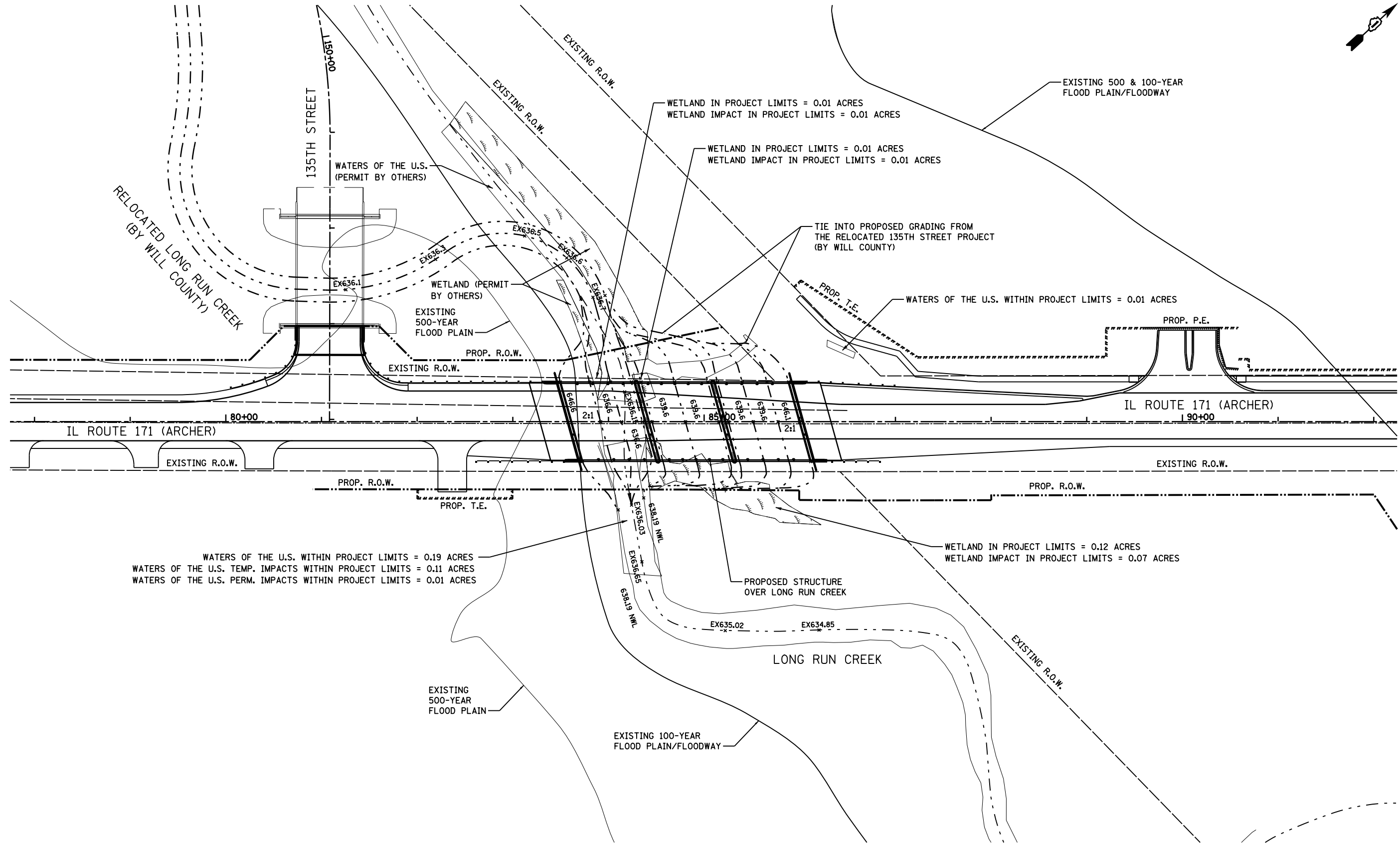
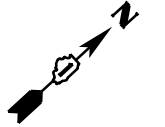
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PLOT SCALE = 1" = 50'	DRAWN - CJC	REVISED -
PLOT DATE = 17-MAR-2016	CHECKED - RFT	REVISED -
	DATE - 3/18/2016	REVISED -

**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

**LANDSCAPING PLAN**

SCALE: 1" = 50' SHEET NO. 1 OF 1 SHEETS STA. 74+24.39 TO STA. 95+68.94

F.A.P. RTE. 577	SECTION C-1-B	COUNTY WILL/COOK	TOTAL SHEETS 186	SHEET NO. 73
CONTRACT NO. 60H21			ILLINOIS FED. AID PROJECT	



I:\68972A\_IL\_171\_12514\Drawings\171-Subcontract\171-Subcontract.dwg

**PARSONS BRINCKERHOFF**  
 230 West Monroe St., Suite 900  
 Chicago, IL 60606, (312) 782-8150

USER NAME = clemonsc	DESIGNED - CJC	REVISED -
PLOT SCALE = 1" = 50'	DRAWN - CJC	REVISED -
PLOT DATE = 17-MAR-2016	CHECKED - RFT	REVISED -
	DATE - 3/18/2016	REVISED -

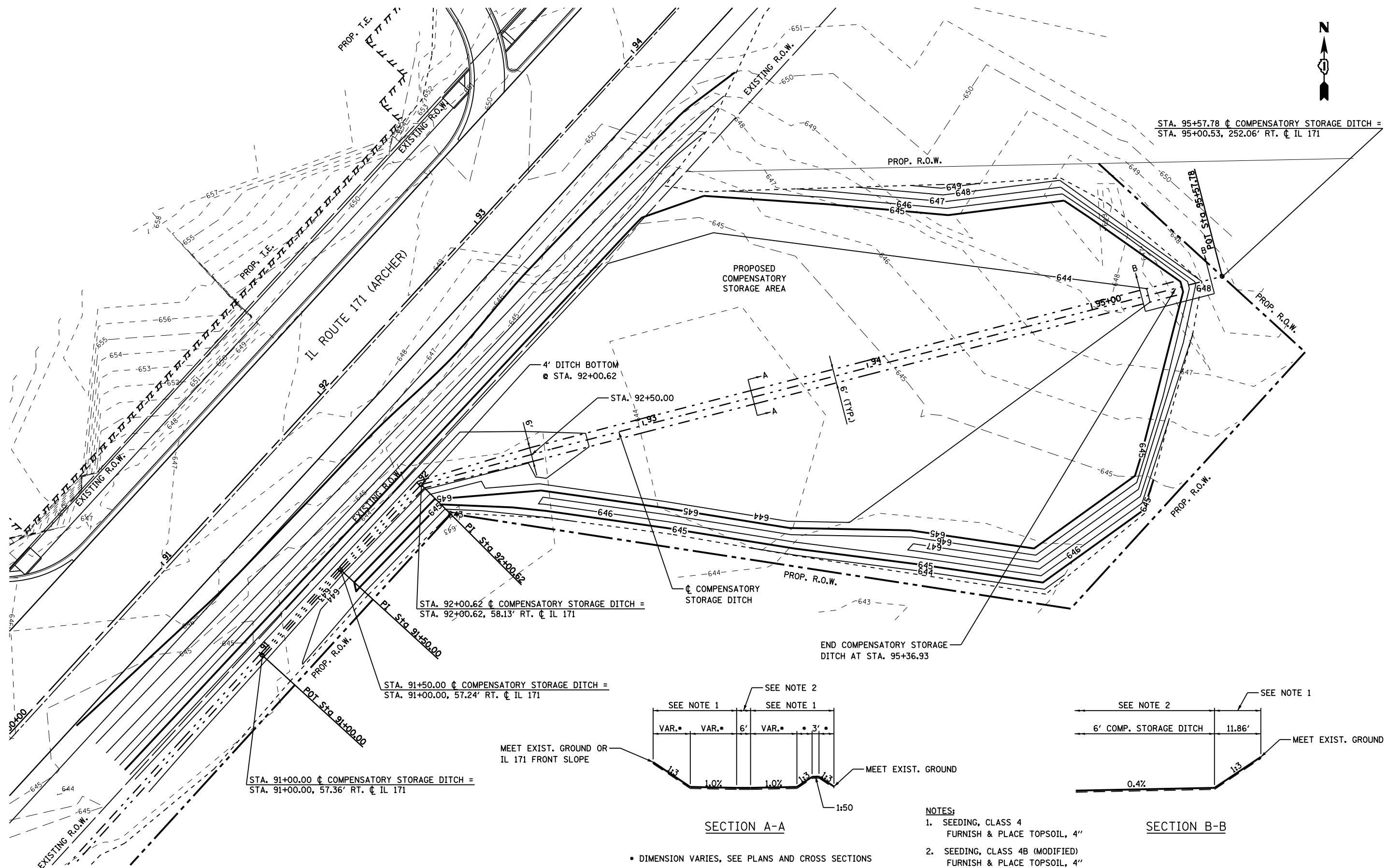
STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

LONG RUN CREEK  
 GRADING PLAN  
 SCALE: 1" = 50' SHEET NO. 1 OF 1 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
577	C-1-B	WILL/COOK	186	74
CONTRACT NO. 60H21			ILLINOIS FED. AID PROJECT	



STA. 95+57.78  $\phi$  COMPENSATORY STORAGE DITCH =  
STA. 95+00.53, 252.06' RT.  $\phi$  IL 171



STA. 92+00.62  $\phi$  COMPENSATORY STORAGE DITCH =  
STA. 92+00.62, 58.13' RT.  $\phi$  IL 171

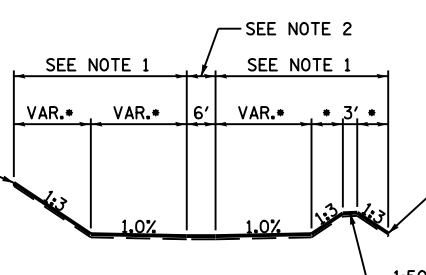
STA. 91+50.00  $\phi$  COMPENSATORY STORAGE DITCH =  
STA. 91+00.00, 57.24' RT.  $\phi$  IL 171

STA. 91+00.00  $\phi$  COMPENSATORY STORAGE DITCH =  
STA. 91+00.00, 57.36' RT.  $\phi$  IL 171

MEET EXIST. GROUND OR  
IL 171 FRONT SLOPE

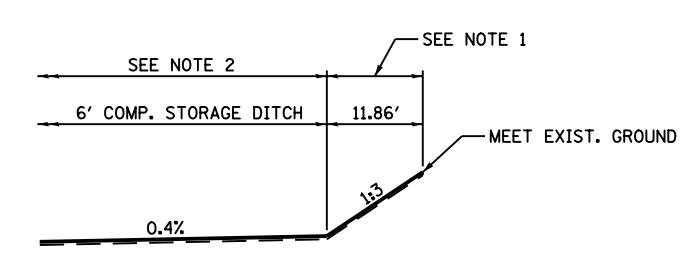
MEET EXIST. GROUND

MEET EXIST. GROUND



SECTION A-A

\* DIMENSION VARIES, SEE PLANS AND CROSS SECTIONS



SECTION B-B

NOTES:

1. SEEDING, CLASS 4  
FURNISH & PLACE TOPSOIL, 4"
2. SEEDING, CLASS 4B (MODIFIED)  
FURNISH & PLACE TOPSOIL, 4"

**PARSONS  
BRINCKERHOFF**  
230 West Monroe St., Suite 900  
Chicago, IL 60606, (312) 782-8150

USER NAME = clemensc	DESIGNED - CJC	REVISED -
PLOT SCALE = 1" = 20'	DRAWN - CJC	REVISED -
PLOT DATE = 17-MAR-2016	CHECKED - RFT	REVISED -
	DATE - 3/18/2016	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

COMPENSATORY STORAGE  
GRADING PLAN

SCALE: 1" = 20' SHEET NO. 1 OF 1 SHEETS STA. TO STA.

F.A.P. RTE. 577	SECTION C-1-B	COUNTY WILL/COOK	TOTAL SHEETS 186	SHEET NO. 75
CONTRACT NO. 60H21			ILLINOIS FED. AID PROJECT	

F:\68974\_IL\71\_68974\Traffic\Station\71-Station.dwg

**PARSONS  
BRINCKERHOFF**  
230 West Monroe St., Suite 900  
Chicago, IL 60606, (312) 782-8150

USER NAME = clemosc  
PLOT SCALE =  
PLOT DATE = 17-MAR-2016

DESIGNED - CRG  
DRAWN - CRG  
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DATE - 3/18/2016

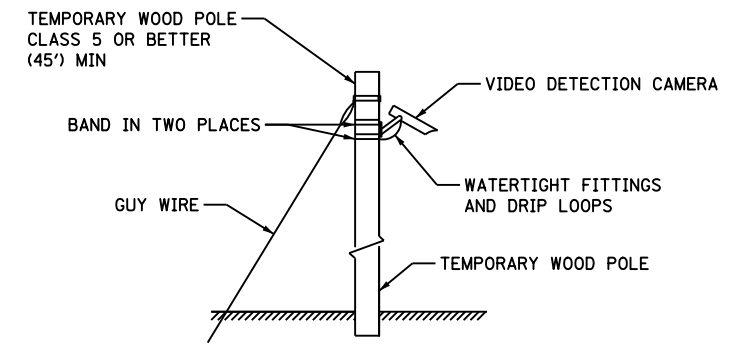
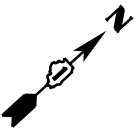
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**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

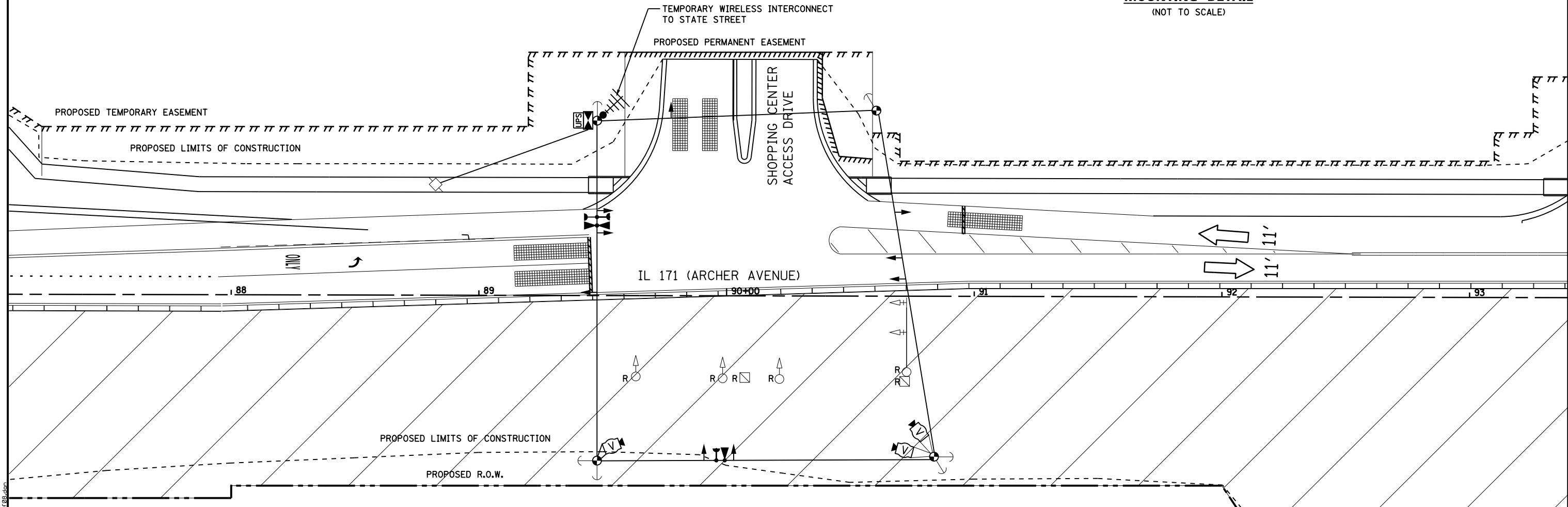
**DISTRICT 1  
STANDARD TRAFFIC SIGNAL DESIGN DETAILS**

SCALE: SHEET NO. 1 OF 14 SHEETS STA. TO STA.

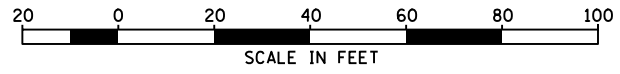
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
577	C-1-B	WILL/COOK	186	76
CONTRACT NO. 60H21			ILLINOIS FED. AID PROJECT	



**TEMPORARY VIDEO DETECTION MOUNTING DETAIL**  
(NOT TO SCALE)



TEMPORARY RADIO INTERCONNECT SHALL NOT BE REMOVED UNTIL FIBER INTERCONNECT TO STATE STREET IS INSTALLED AND OPERATIONAL.  
THE TRAFFIC SIGNAL CONTROLLER EQUIPMENT FOR THIS PROJECT SHALL BE "ECONOLITE" TO MATCH THE EXISTING ADJACENT SYSTEM.



**ECON 141**  
**TS #3567**

**PARSONS BRINCKERHOFF**  
230 West Monroe St., Suite 900  
Chicago, IL 60606, (312) 782-8150

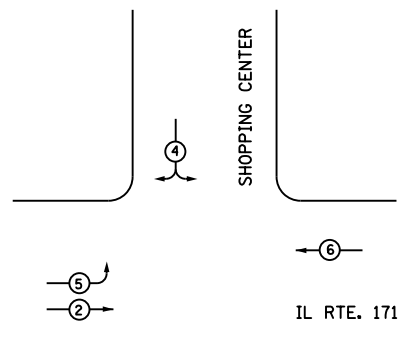
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PLOT DATE = 12-APR-2016	CHECKED - RT	REVISED -
	DATE - 4/12/2016	REVISED -

**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

**TEMPORARY TRAFFIC SIGNAL AND REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT PLAN STAGE I**  
**IL RTE 171 (ARCHER AVENUE) AND SHOPPING CENTER ACCESS DRIVE**  
SCALE: 20 SHEET NO. 2 OF 14 SHEETS STA. 77+65.95 TO STA. 83+95.95

F.A.P. RTE. 577	SECTION C-1-B	COUNTY WILL/COOK	TOTAL SHEETS 186	SHEET NO. 77
CONTRACT NO. 60H21			ILLINOIS FED. AID PROJECT	

**TEMPORARY CONTROLLER SEQUENCE**



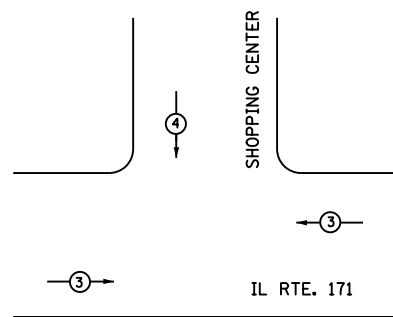
**LEGEND**

- SINGLE ENTRY PHASE
- DUAL ENTRY PHASE
- OVERLAP
- PEDESTRIAN PHASE
- NUMBER REFERS TO ASSOCIATED PHASE

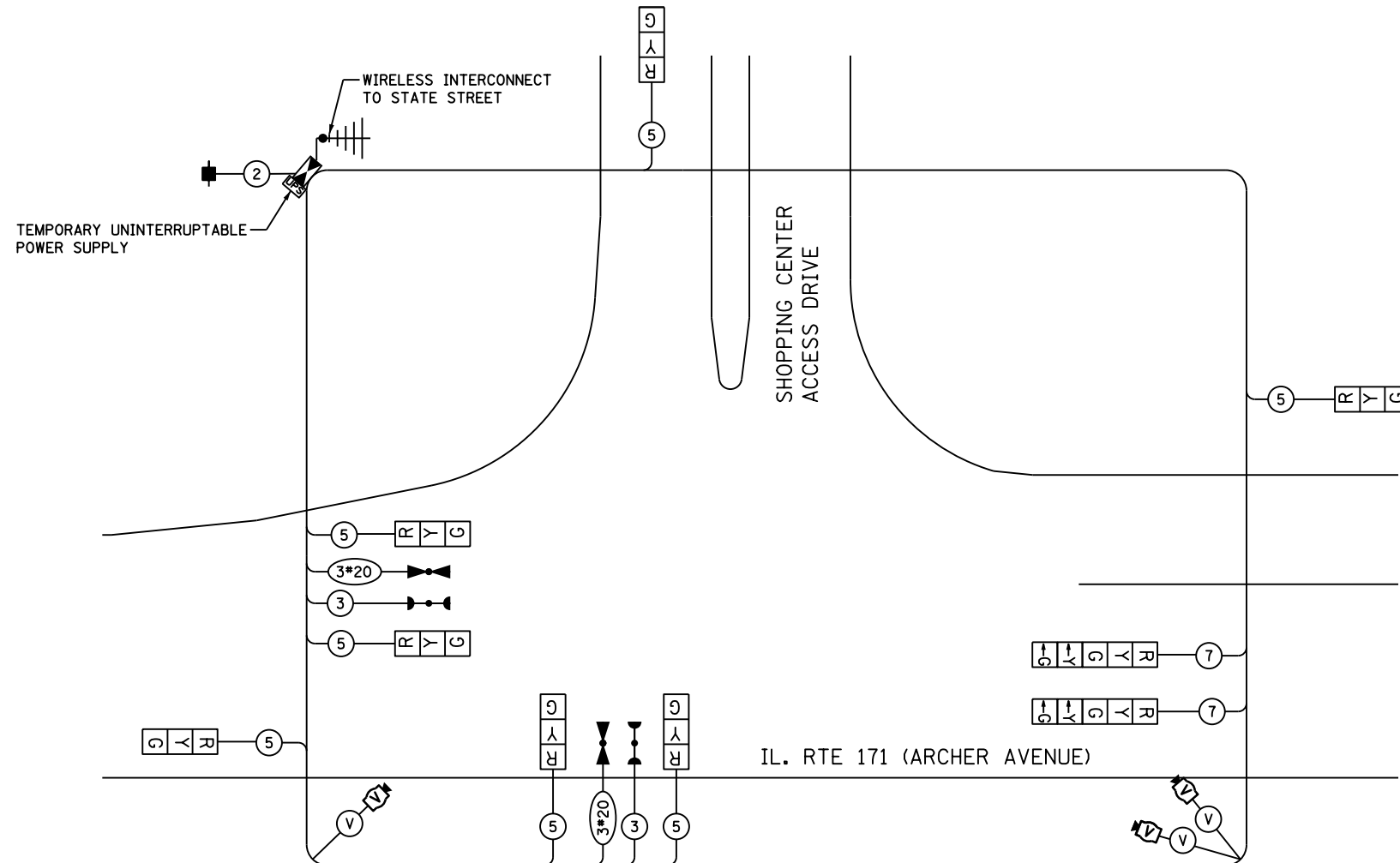
**TEMPORARY PHASE DESIGNATION DIAGRAM**

**ALL STAGES**

**TEMPORARY EMERGENCY VEHICLE PREEMPTION SEQUENCE**



PROPOSED EMERGENCY VEHICLE PREEMPTION		
EMERGENCY VEHICLE PREEMPTION	3	4
MOVEMENT	← →	↓



**TEMPORARY CABLE PLAN STAGE I**

I.D.O.T TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS					TOTAL WATTAGE
TYPE	NO. LAMPS	WATTAGE INCAND.	WATTAGE LED	%OPERATION	
SIGNAL (RED)	9		17	0.50	76.5
(YELLOW)	9		25	0.25	56.25
(GREEN)	9		15	0.25	33.75
ARROW	4		12	0.10	4.8
CONTROLLER	1		100	1.00	100
VIDEO SYSTEM	1	150		1.00	150
TOTAL =					421.3

ENERGY COSTS TO: TOTAL = 421.3

ENERGY SUPPLY CONTACT: CUSTOMER DESIGN & CONSTRUCTION OFFICE  
 PHONE: (815) 727-5656  
 COMPANY: COMED SOUTHERN REGION

FOUNDATION (DEPTH)	FT. (m)	CABLE SLACK	FT. (m)	VERTICAL	FT. (m)
TYPE A - POST	4 (1.2)	HANDHOLE	6.5 (2.0)	ALL FOUNDATIONS	3.5 (1.0)
D - CONTROLLER	4 (1.2)	DOUBLE HANDHOLE	13 (4.0)	MAST ARM (L) POLE	20'+L-2'=(6m+L-0.6m)=
E - M. ARM POLE		SIGNAL POST	2 (1.0)	BRACKET MOUNTED	13 (4.0)
24" (600mm)	10 (3.0)	CONTROLLER CAB.	1 (0.5)	PED. PUSHBUTTON	4 (1.2)
30" (750mm)	15 (4.6)	FIBER OPTIC	13 (4.0)	ELECTRIC SERVICE	13.5 (4.1)
		ELECTRIC SERVICE	1 (0.5)	SERVICE TO GROUND	13.5 (4.1)
		GROUND CABLE	1 (0.5)	POST MOUNTED	6 (1.8)

**PARSONS BRINCKERHOFF**  
 230 West Monroe St., Suite 900  
 Chicago, IL 60606, (312) 782-8150

USER NAME = gulickor	DESIGNED - CRG	REVISED -
PLOT SCALE = NTS	DRAWN - CRG	REVISED -
PLOT DATE = 12-APR-2016	CHECKED - RT	REVISED -
	DATE - 4/12/2016	REVISED -

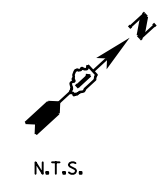
STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

TEMPORARY CABLE PLAN, TEMPORARY PHASE DESIGNATION DIAGRAM AND TEMPORARY EMERGENCY VEHICLE PREEMPTION SEQUENCE  
 IL RTE 171 (ARCHER AVENUE) AND SHOPPING CENTER ACCESS DRIVE

SCALE: NTS SHEET NO. 3 OF 14 SHEETS STA. 77+65.95 TO STA. 83+95.95

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
577	C-1-B	WILL/COOK	186	78
CONTRACT NO. 60H21			ILLINOIS FED. AID PROJECT	

ECON 141  
 TS# 3567



**REMOVAL AND RELOCATION NOTES:**

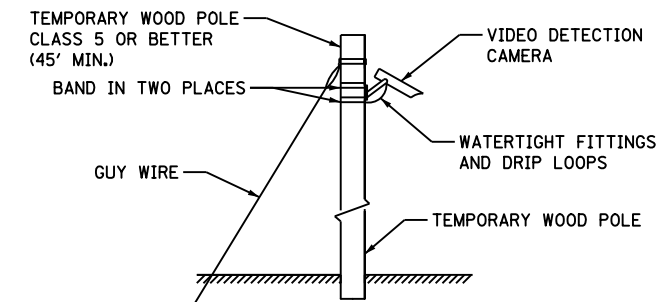
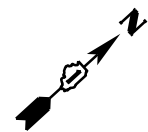
THE FOLLOWING EXISTING TRAFFIC SIGNAL EQUIPMENT SHALL BE REMOVED BY THE CONTRACTOR AND SHALL REMAIN THE PROPERTY OF THE AGENCY LISTED BELOW. THE CONTRACTOR SHALL SAFELY STORE AND ARRANGE FOR PICK UP OF ALL EQUIPMENT TO BE RETURNED TO THE LISTED AGENCY AS PER THE TRAFFIC SIGNAL SPECIFICATIONS.

AGENCY: VILLAGE OF LEMONT

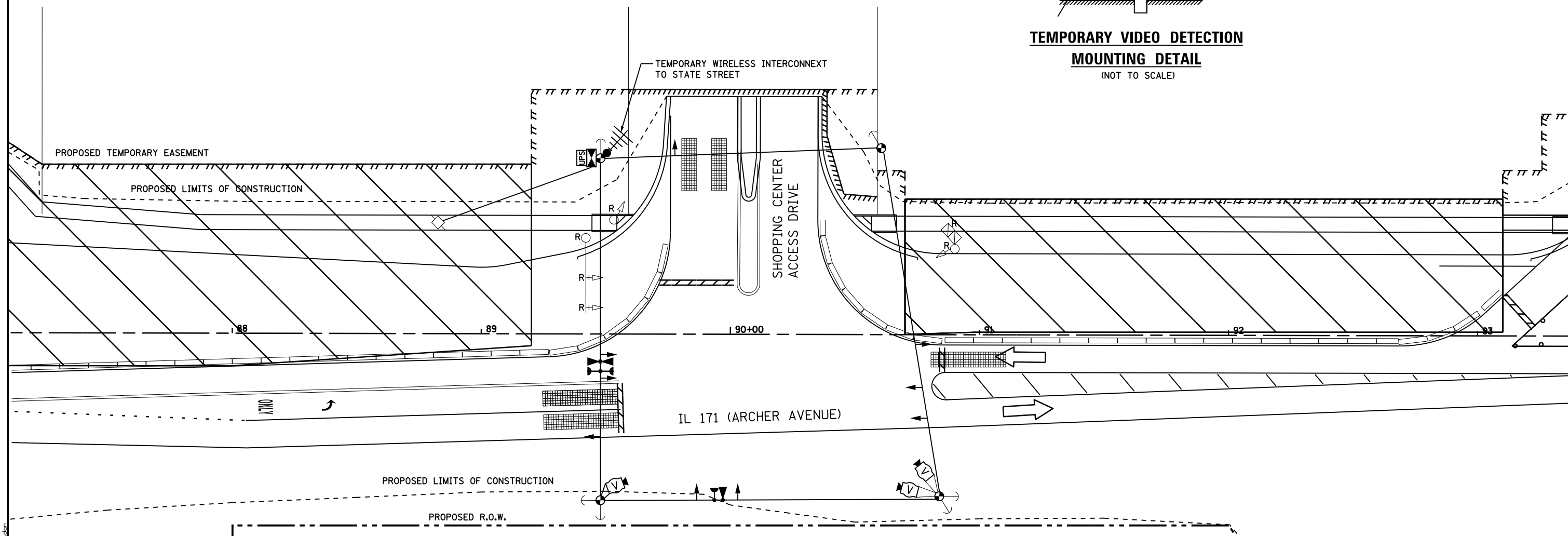
- 2 EACH LIGHT DETECTOR
- 2 EACH LIGHT DETECTOR AMPLIFIER

THE FOLLOWING ITEMS SHALL BE REMOVED BY THE CONTRACTOR AND SHALL BE DISPOSED OF BY THEM OUTSIDE THE RIGHT-OF-WAY AT THEIR EXPENSE. THE SALVAGE VALUE OF THE REMOVED EQUIPMENT SHALL BE REFLECTED IN THE CONTRACT BID PRICE.

- 1 EACH CONTROLLER AND CABINET (COMPLETE)
- 3 EACH SIGNAL HEAD, 1-FACE, 3-SECTION
- 1 EACH SIGNAL HEAD, 1-FACE, 5-SECTION
- 1 EACH ALUMINUM MAST ARM AND POLE
- 2 EACH SIGNAL POST
- 2 EACH PEDESTRIAN SIGNAL HEAD, 1-FACE
- 2 EACH PEDESTRIAN PUSH-BUTTON
- 1 EACH ELECTRICAL SERVICE

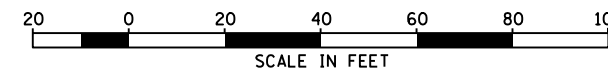


**TEMPORARY VIDEO DETECTION MOUNTING DETAIL**  
(NOT TO SCALE)



TEMPORARY WIRELESS INTERCONNECT SHALL NOT BE REMOVED UNTIL FIBER INTERCONNECT TO STATE STREET IS INSTALLED AND OPERATIONAL.

THE TRAFFIC SIGNAL CONTROLLER EQUIPMENT FOR THIS PROJECT SHALL BE "ECONOLITE" TO MATCH THE EXISTING ADJACENT SYSTEM



**ECON 141**  
**TS# 3567**

**PARSONS BRINCKERHOFF**  
230 West Monroe St., Suite 900  
Chicago, IL 60606, (312) 782-8150

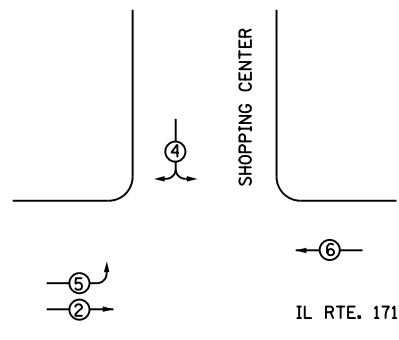
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PLOT DATE = 12-APR-2016	CHECKED - RT	REVISED -
	DATE - 4/12/2016	REVISED -

**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

<b>TEMPORARY TRAFFIC SIGNAL INSTALLATION AND REMOVE EXISTING TRAFFIC SIGNAL PLAN STAGE II</b>			
<b>IL RTE 171 (ARCHER AVENUE) AND SHOPPING CENTER ACCESS DRIVE</b>			
SCALE: 20	SHEET NO. 4 OF 14 SHEETS	STA. 77+65.95 TO STA. 83+95.95	

F.A.P. RTE. 577	SECTION C-1-B	COUNTY WILL/COOK	TOTAL SHEETS 186	SHEET NO. 79
CONTRACT NO. 60H21			ILLINOIS FED. AID PROJECT	

**TEMPORARY CONTROLLER SEQUENCE**



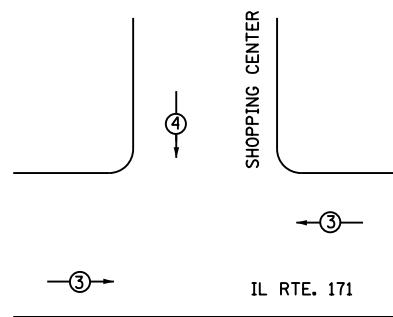
**LEGEND**

- SINGLE ENTRY PHASE
- DUAL ENTRY PHASE
- OVERLAP
- PEDESTRIAN PHASE
- NUMBER REFERS TO ASSOCIATED PHASE

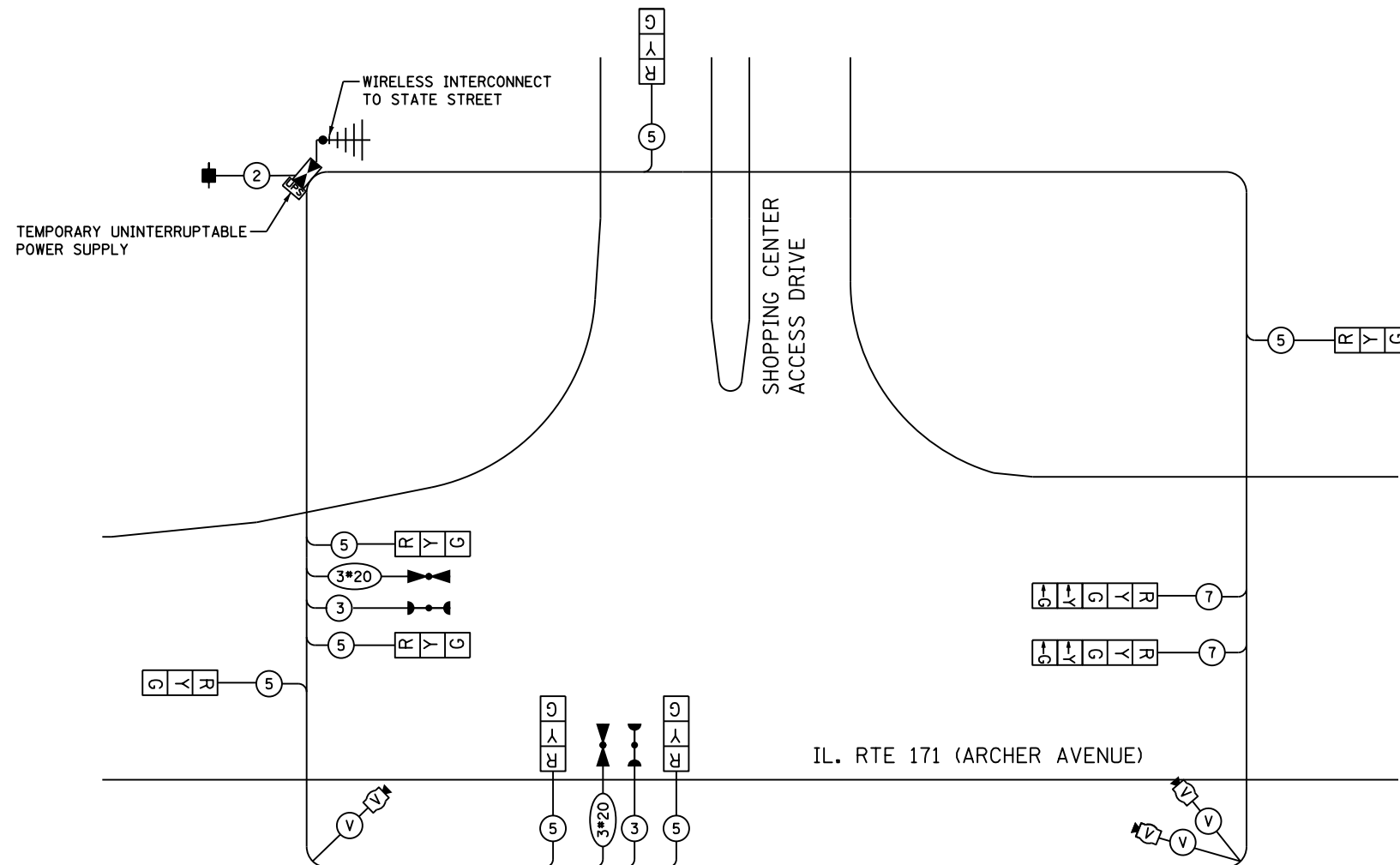
**TEMPORARY PHASE DESIGNATION DIAGRAM**

**ALL STAGES**

**TEMPORARY EMERGENCY VEHICLE PREEMPTION SEQUENCE**



PROPOSED EMERGENCY VEHICLE PREEMPTION		
EMERGENCY VEHICLE PREEMPTION	3	4
MOVEMENT	← →	↓



**TEMPORARY CABLE PLAN STAGE II**

I.D.O.T TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS					TOTAL WATTAGE
TYPE	NO. LAMPS	WATTAGE INCAND.	WATTAGE LED	% OPERATION	
SIGNAL (RED)	9		17	0.50	76.5
(YELLOW)	9		25	0.25	56.25
(GREEN)	9		15	0.25	33.75
ARROW	4		12	0.10	4.8
CONTROLLER	1		100	1.00	100
VIDEO SYSTEM	1	150		1.00	150
TOTAL =					421.3

ENERGY COSTS TO: TOTAL = 421.3

ENERGY SUPPLY CONTACT: CUSTOMER DESIGN & CONSTRUCTION OFFICE  
 PHONE: (815) 727-5656  
 COMPANY: COMED SOUTHERN REGION

FOUNDATION (DEPTH)	FT. (m)	CABLE SLACK	FT. (m)	VERTICAL	FT. (m)
TYPE A - POST	4 (1.2)	HANDHOLE	6.5 (2.0)	ALL FOUNDATIONS	3.5 (1.0)
D - CONTROLLER	4 (1.2)	DOUBLE HANDHOLE	13 (4.0)	MAST ARM (L) POLE	20'+L-2'
E - M. ARM POLE		SIGNAL POST	2 (1.0)	(6m+L-0.6m)=	
24" (600mm)	10 (3.0)	CONTROLLER CAB.	1 (0.5)	BRACKET MOUNTED	13 (4.0)
30" (750mm)	15 (4.6)	FIBER OPTIC	13 (4.0)	PED. PUSHBUTTON	4 (1.2)
		ELECTRIC SERVICE	1 (0.5)	ELECTRIC SERVICE	13.5 (4.1)
		GROUND CABLE	1 (0.5)	SERVICE TO GROUND	13.5 (4.1)
				POST MOUNTED	6 (1.8)

**PARSONS BRINCKERHOFF**  
 230 West Monroe St., Suite 900  
 Chicago, IL 60606, (312) 782-8150

USER NAME = gulickor	DESIGNED - CRG	REVISED -
PLOT SCALE = NTS	DRAWN - CRG	REVISED -
PLOT DATE = 12-APR-2016	CHECKED - RT	REVISED -
	DATE - 4/12/2016	REVISED -

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

TEMPORARY CABLE PLAN, TEMPORARY PHASE DESIGNATION DIAGRAM AND TEMPORARY EMERGENCY VEHICLE PREEMPTION SEQUENCE  
 IL RTE 171 (ARCHER AVENUE) AND SHOPPING CENTER ACCESS DRIVE

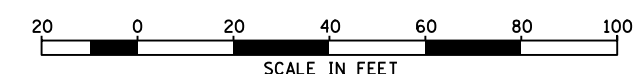
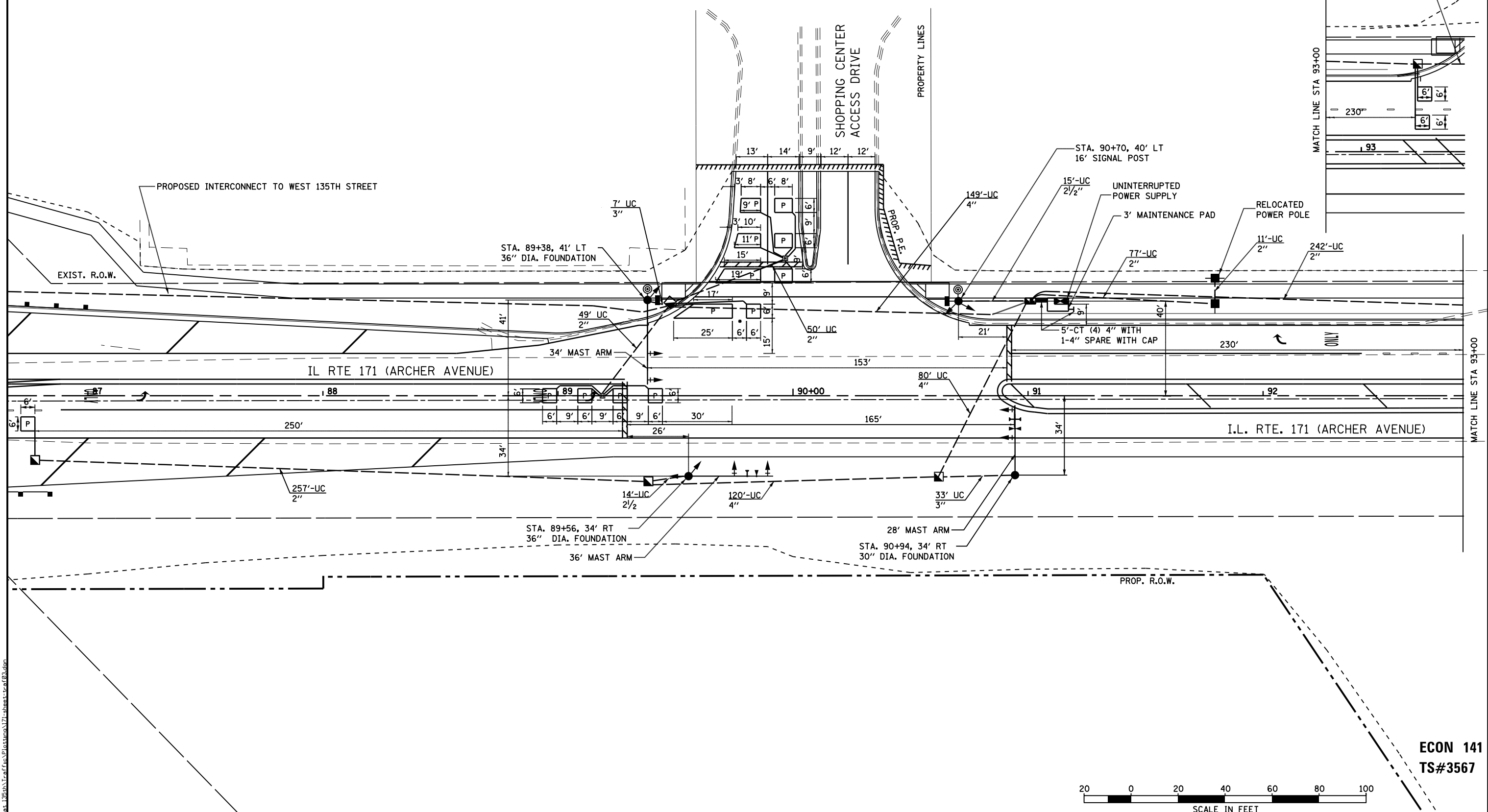
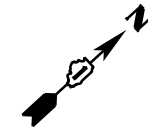
SCALE: NTS SHEET NO. 5 OF 14 SHEETS STA. 77+65.95 TO STA. 83+95.95

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
577	C-1-B	WILL/COOK	186	80
CONTRACT NO. 60H21			ILLINOIS FED. AID PROJECT	

ECON 141  
 TS# 3567



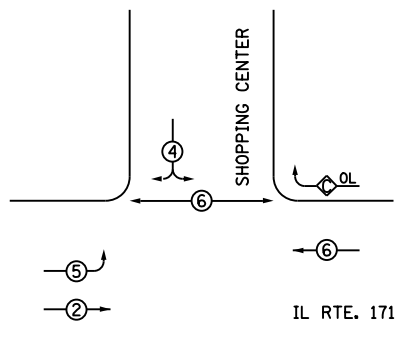
**NOTE:**  
 •THE TWO (2) FRONT LOOPS WILL BE  
 SPLICED TO LEAD-IN CABLE IN THE HANDHOLE



**ECON 141**  
**TS#3567**

<b>PARSONS BRINCKERHOFF</b> 230 West Monroe St., Suite 900 Chicago, IL 60606, (312) 782-8150	USER NAME = gulickor	DESIGNED - CRG	REVISED -	<b>STATE OF ILLINOIS</b> <b>DEPARTMENT OF TRANSPORTATION</b>	<b>TRAFFIC SIGNAL PLAN</b> <b>IL RTE 171 (ARCHER AVENUE) AND SHOPPING CENTER ACCESS DRIVE</b>			F.A.P. RTE. 577	SECTION C-1-B	COUNTY WILL/COOK	TOTAL SHEETS 186	SHEET NO. 81	
	PLOT SCALE = 20	CHECKED - RT	REVISED -		SCALE: 20	SHEET NO. 6 OF 14 SHEETS	STA. 86+65.74 TO STA. 93+48.49	CONTRACT NO. 60H21					
	PLOT DATE = 12-APR-2016	DATE - 4/12/2016	REVISED -		ILLINOIS FED. AID PROJECT								

**CONTROLLER SEQUENCE**

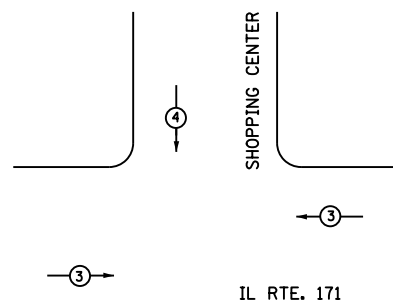


OVERLAP PERM PROT  
C = 6 + 4

- LEGEND**
- SINGLE ENTRY PHASE
  - DUAL ENTRY PHASE
  - OVERLAP
  - PEDESTRIAN PHASE
  - NUMBER REFERS TO ASSOCIATED PHASE

**PHASE DESIGNATION DIAGRAM**

**EMERGENCY VEHICLE PREEMPTION SEQUENCE**



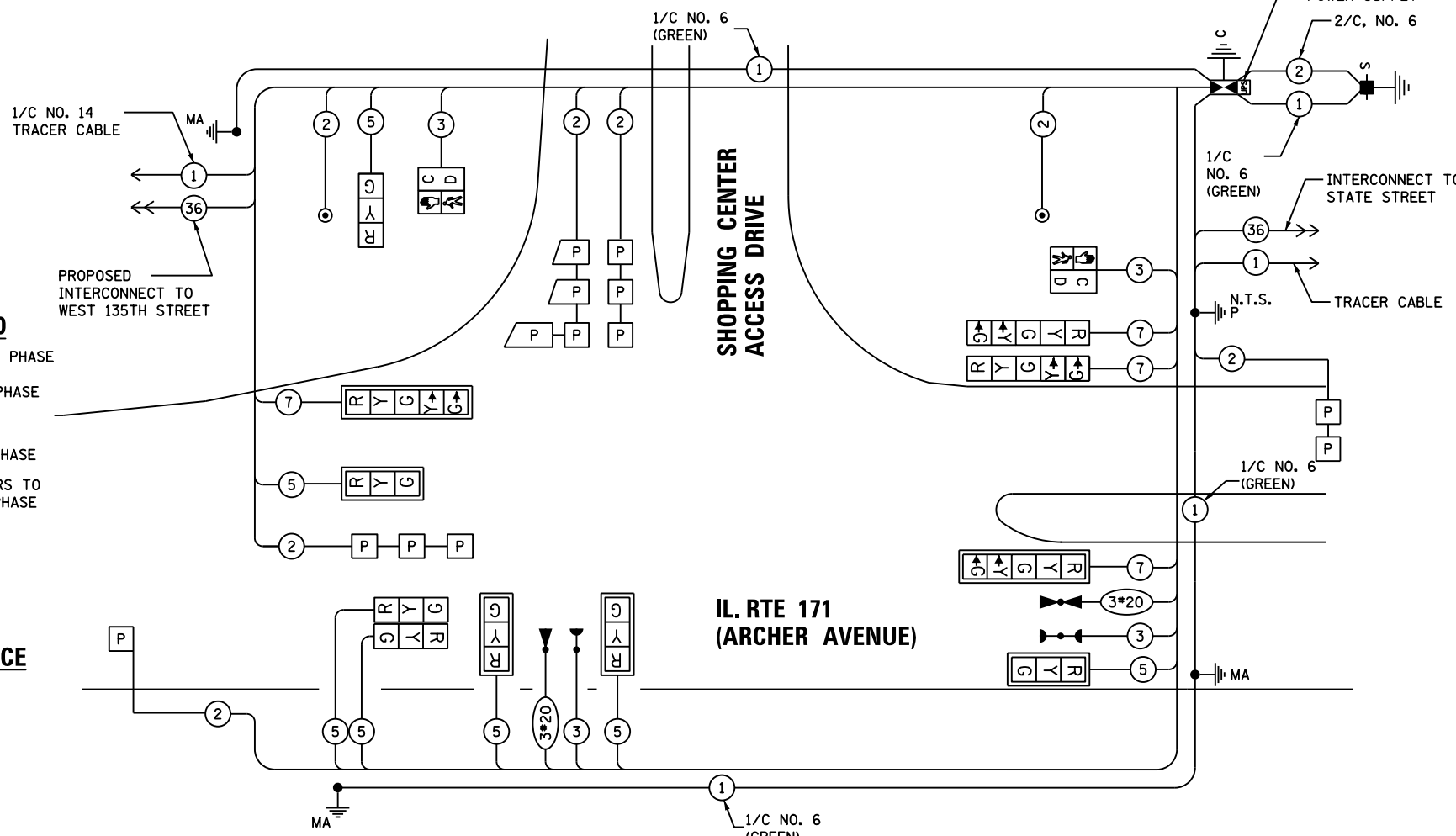
PROPOSED EMERGENCY VEHICLE PREEMPTION		
EMERGENCY VEHICLE PREEMPTION	3	4
MOVEMENT	←	↓

I.D.O.T TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS					TOTAL WATTAGE
TYPE	NO. LAMPS	WATTAGE INCAND. LED	%OPERATION		
SIGNAL (RED)	11	17	0.50	93.5	
(YELLOW)	11	25	0.25	68.75	
(GREEN)	11	15	0.25	41.25	
ARROW	8	12	0.10	9.6	
PED. SIGNAL	2	25	1.00	50	
CONTROLLER	1	100	1.00	100	
TOTAL = 363.1					

ENERGY COSTS TO: TOTAL = 363.1

ENERGY SUPPLY CONTACT: CUSTOMER DESIGN & CONSTRUCTION OFFICE  
PHONE: (815) 727-5656  
COMPANY: COMED SOUTHERN REGION

FOUNDATION (DEPTH)	FT. (m)	CABLE SLACK	FT. (m)	VERTICAL	FT. (m)
TYPE A - POST	4 (1.2)	HANDHOLE	6.5 (2.0)	ALL FOUNDATIONS	3.5 (1.0)
D - CONTROLLER	4 (1.2)	DOUBLE HANDHOLE	13 (4.0)	MAST ARM (L) POLE	20'+L-2'=(6m+L-0.6m)=
E - M. ARM POLE		SIGNAL POST	2 (1.0)	BRACKET MOUNTED	13 (4.0)
24" (600mm)	10 (3.0)	CONTROLLER CAB.	1 (0.5)	PED. PUSHBUTTON	4 (1.2)
30" (750mm)	15 (4.6)	FIBER OPTIC	13 (4.0)	ELECTRIC SERVICE	13.5 (4.1)
		ELECTRIC SERVICE	1 (0.5)	SERVICE TO GROUND	13.5 (4.1)
		GROUND CABLE	1 (0.5)	POST MOUNTED	6 (1.8)



**CABLE PLAN**

**BILL OF MATERIAL:**

DESCRIPTION	UNIT	QUANTITY	DESCRIPTION	UNIT	QUANTITY
SIGN PANEL - TYPE 2	SQ FT	12.5	CONCRETE FOUNDATION, TYPE E 30-INCH DIAMETER	FOOT	10
UNDERGROUND CONDUIT, 2" DIA., GALVANIZED STEEL	FOOT	686	CONCRETE FOUNDATION, TYPE E 36-INCH DIAMETER	FOOT	22
UNDERGROUND CONDUIT, 2 1/2" DIA., GALVANIZED STEEL	FOOT	29	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST-ARM MOUNTED	FOOT	4
UNDERGROUND CONDUIT, 3" DIA., GALVANIZED STEEL	FOOT	40	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED	EACH	3
UNDERGROUND CONDUIT, 4" DIA., GALVANIZED STEEL	FOOT	369	SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST-ARM MOUNTED	EACH	2
HANDHOLE	EACH	5	SIGNAL HEAD, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED	EACH	2
HEAVY DUTY HANDHOLE	EACH	2	PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED	EACH	2
DOUBLE HAND HOLE	EACH	1	TRAFFIC SIGNAL BACKPLATE, LOUVERED, FORMED PLASTIC	EACH	6
FULL-ACTUATED CONTROLLER AND SUPER P CABINET (SPECIAL)	EACH	1	PEDESTRIAN PUSH-BUTTON	EACH	2
TRANSCEIVER - FIBER OPTIC	EACH	1	• LIGHT DETECTOR	EACH	2
ELECTRIC CABLE IN CONDUIT, SIGNAL, NO. 14 2C	FOOT	251	• LIGHT DETECTOR AMPLIFIER	EACH	1
ELECTRIC CABLE IN CONDUIT, SIGNAL, NO. 14 3C	FOOT	755	INDUCTION LOOP DETECTOR AMPLIFIER	FOOT	5
ELECTRIC CABLE IN CONDUIT, SIGNAL, NO. 14 5C	FOOT	1760	PREFORM DETECTOR LOOP	FOOT	639
ELECTRIC CABLE IN CONDUIT, SIGNAL, NO. 14 7C	FOOT	516	ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C	FOOT	532
ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1 PAIR	FOOT	1474	TEMPORARY TRAFFIC SIGNAL INSTALLATION	EACH	1
ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2C	FOOT	133	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
• EMERGENCY VEHICLE PRIORITY SYSTEM LINE SENSOR	FOOT	486	REMOVE EXISTING HANDHOLE	EACH	8
CABLE, NO. 20 3/C			REMOVE EXISTING CONCRETE FOUNDATION	EACH	8
TRAFFIC SIGNAL POST, GALVANIZED STEEL, 16 FT.	EACH	1	TEMPORARY TRAFFIC SIGNAL TILING	EACH	1
STEEL MAST ARM ASSEMBLY AND POLE, 28 FT.	EACH	1	UNINTERRUPTABLE POWER SUPPLY, SPECIAL	EACH	1
STEEL MAST ARM ASSEMBLY AND POLE, 34 FT.	EACH	1	SERVICE INSTALLATION, GROUND MOUNTED	EACH	1
STEEL MAST ARM ASSEMBLY AND POLE, 36 FT.	EACH	1			
CONCRETE FOUNDATION, TYPE A	FOOT	4			
CONCRETE FOUNDATION, TYPE C	FOOT	4			

\* INDICATES 100% OF COSTS TO THE NORTHWEST HOMER FIRE PROTECTION DISTRICT

**PARSONS BRINCKERHOFF**  
230 West Monroe St., Suite 900  
Chicago, IL 60606, (312) 782-8150

USER NAME = gulickor	DESIGNED - CRG	REVISED -
	DRAWN - CRG	REVISED -
PLOT SCALE = NTS	CHECKED - RT	REVISED -
PLOT DATE = 12-APR-2016	DATE - 4/12/2016	REVISED -

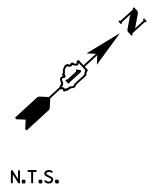
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

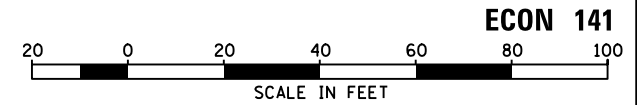
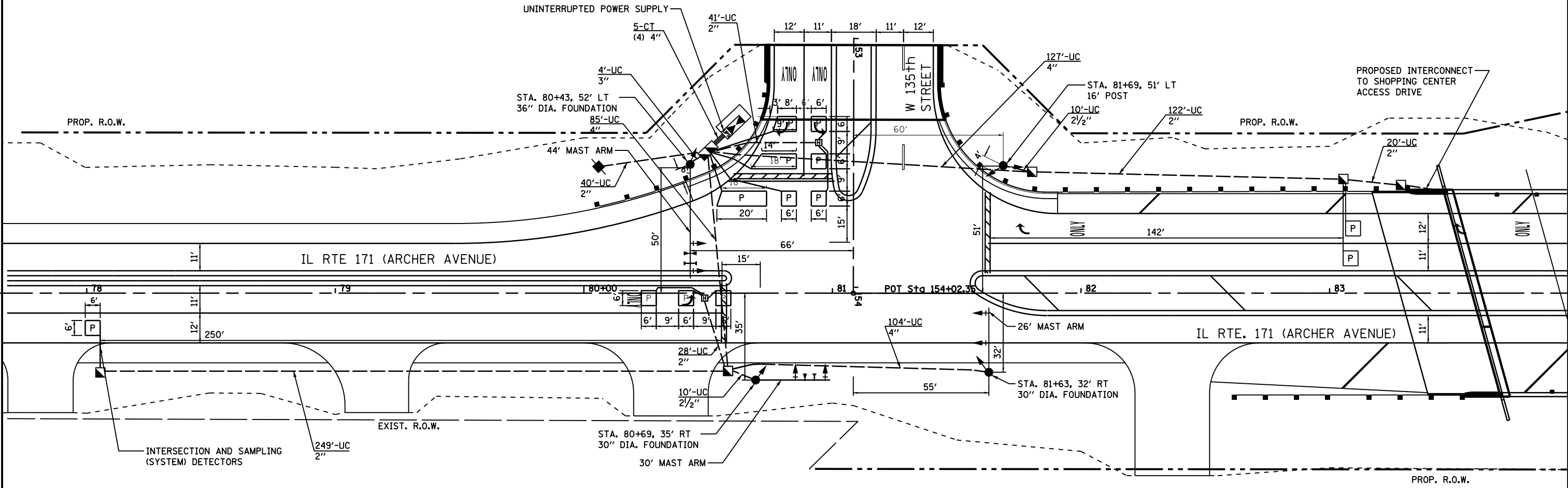
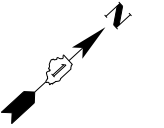
SCHEDULE OF QUANTITIES, CABLE PLAN, PHASE DESIGNATION DIAGRAM AND EMERGENCY VEHICLE PREEMPTION SEQUENCE  
IL RTE 171 (ARCHER AVENUE) AND SHOPPING CENTER ACCESS DRIVE

F.A.P. RTE. 577	SECTION C-1-B	COUNTY WILL/COOK	TOTAL SHEETS 186	SHEET NO. 82
CONTRACT NO. 60H21			ILLINOIS FED. AID PROJECT	

ECON 141  
TS#3567

THE END OF THE TRACER CABLE SHALL BE CONTINUOUS AND EXTEND INTO THE CONTROLLER CABINET.





ECON 141

**PARSONS BRINCKERHOFF**  
 230 West Monroe St., Suite 900  
 Chicago, IL 60606, (312) 782-8150

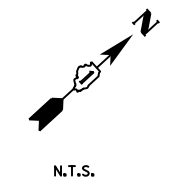
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	DATE - 4/12/2016	REVISED -

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

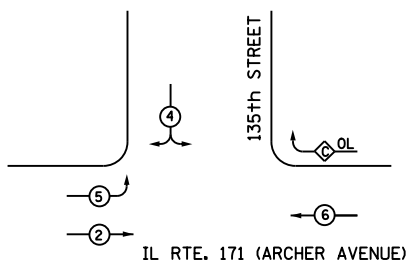
TRAFFIC SIGNAL PLAN  
 IL RTE 171 (ARCHER AVENUE) AND WEST 135th STREET  
 SCALE: 20 SHEET NO. 8 OF 14 SHEETS STA. 77+65.95 TO STA. 83+95.95

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
577	C-1-8	WILL/COOK	186	83
CONTRACT NO. 60H21			ILLINOIS FED. AID PROJECT	

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**CONTROLLER SEQUENCE**

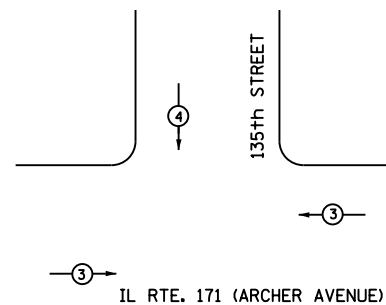


OVERLAP PERM PROT  
C = 6 + 4

**LEGEND**

- SINGLE ENTRY PHASE
- DUAL ENTRY PHASE
- ◇ OVERLAP
- ⊙ PEDESTRIAN PHASE
- NUMBER REFERS TO ASSOCIATED PHASE

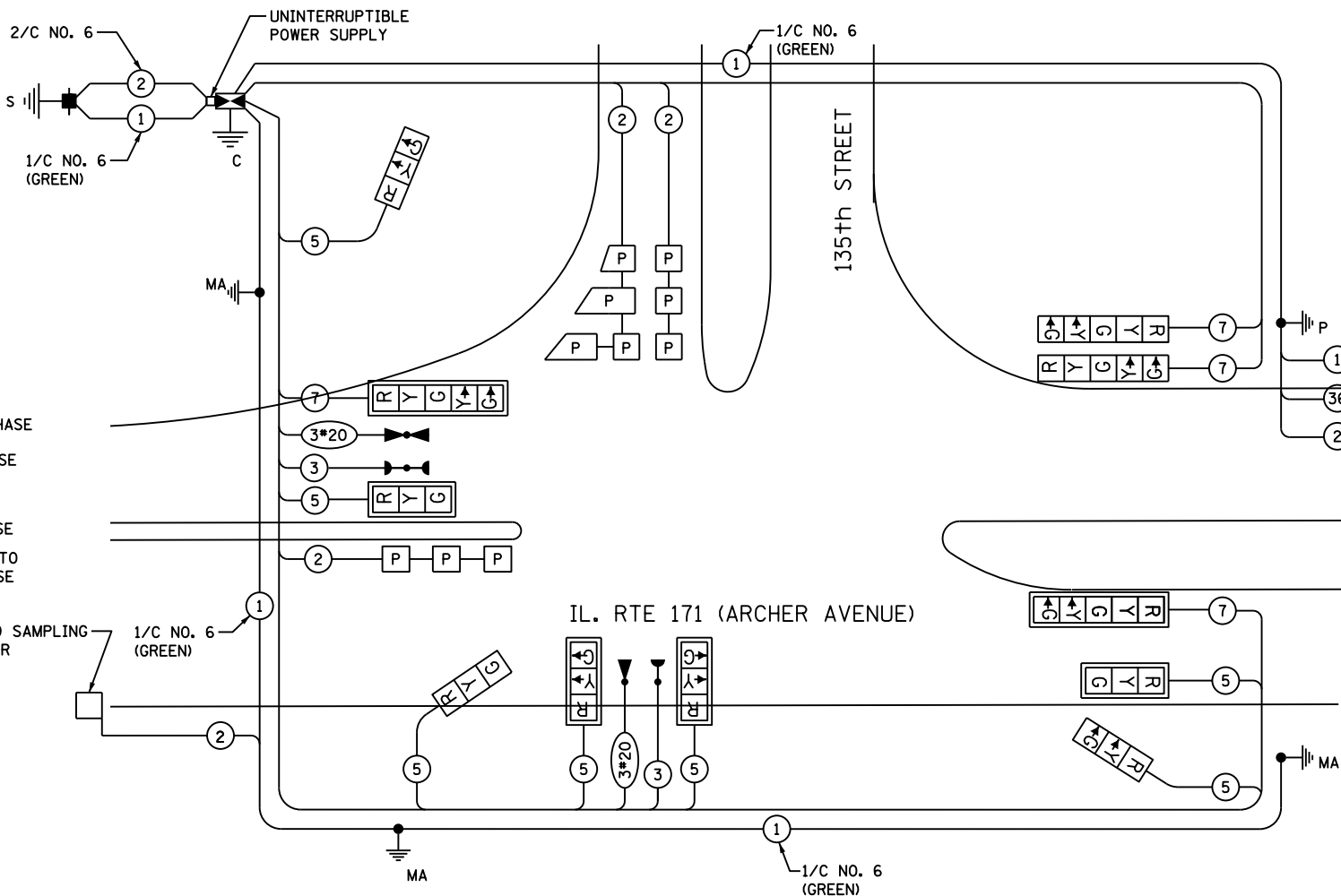
**PHASE DESIGNATION DIAGRAM**



INTERSECTION AND SAMPLING (SYSTEM) DETECTOR

**EMERGENCY VEHICLE PREEMPTION SEQUENCE**

PROPOSED EMERGENCY VEHICLE PREEMPTION		
EMERGENCY VEHICLE PREEMPTION	3	4
MOVEMENT	←	↓



**CABLE PLAN**

**BILL OF MATERIAL:**

DESCRIPTION	UNIT	QUANTITY	DESCRIPTION	UNIT	QUANTITY
SIGN PANEL - TYPE 1	SQ FT	16.5	STEEL MAST ARM ASSEMBLY AND POLE, 30 FT.	EACH	1
SIGN PANEL - TYPE 2	SQ FT	12.5	STEEL MAST ARM ASSEMBLY AND POLE, 44 FT.	EACH	1
UNDERGROUND CONDUIT, 2" DIA. GALVANIZED STEEL	FOOT	480	CONCRETE FOUNDATION, TYPE A	FOOT	4
UNDERGROUND CONDUIT, 2 1/2" DIA. GALVANIZED STEEL	FOOT	20	CONCRETE FOUNDATION, TYPE C	FOOT	4
UNDERGROUND CONDUIT, 3" DIA. GALVANIZED STEEL	FOOT	4	CONCRETE FOUNDATION, TYPE E 30-INCH DIAMETER	FOOT	23.5
UNDERGROUND CONDUIT, 4" DIA. GALVANIZED STEEL	FOOT	336	CONCRETE FOUNDATION, TYPE E 36-INCH DIAMETER	FOOT	13
HANDHOLE	EACH	5	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST-ARM MOUNTED	EACH	4
HEAVY-DUTY HANDHOLE	EACH	2	SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST-ARM MOUNTED	EACH	2
DOUBLE HANDHOLE	EACH	1	SIGNAL HEAD, LED, 1-FACE, 5 SECTION, BRACKET MOUNTED	EACH	2
FULL - ACTUATED CONTROLLER AND SUPER P CABINET	EACH	1	SIGNAL HEAD, LED, 1-FACE, 3 SECTION, BRACKET MOUNTED	EACH	3
TRANSCIEVER - FIBER OPTIC	EACH	1	TRAFFIC SIGNAL BACKPLATE, LOUVERED, FORMED PLASTIC	EACH	6
ELECTRIC CABLE IN CONDUIT, SIGNAL, NO. 14 3C	FOOT	262	• LIGHT DETECTOR	EACH	2
ELECTRIC CABLE IN CONDUIT, SIGNAL, NO. 14 5C	FOOT	1124	• LIGHT DETECTOR AMPLIFIER	EACH	1
ELECTRIC CABLE IN CONDUIT, SIGNAL, NO. 14 7C	FOOT	716	INDUCTION LOOP DETECTOR AMPLIFIER	EACH	5
ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1 PAIR	FOOT	964	PREFORMED DETECTOR LOOP	FOOT	466
ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2C	FOOT	90	ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C	FOOT	429
• EMERGENCY VEHICLE PRIORITY SYSTEM LINE SENSOR	FOOT	259	UNINTERRUPTABLE POWER SUPPLY, SPECIAL	EACH	1
CABLE, NO. 20 3/C			SERVICE INSTALLATION, POLE MOUNTED	EACH	1
TRAFFIC SIGNAL POST, GALVANIZED STEEL, 16 FT.	EACH	1			
STEEL MAST ARM ASSEMBLY AND POLE, 26 FT.	EACH	1			

• INDICATES 100% OF COSTS TO THE NORTHWEST HOMER FIRE PROTECTION DISTRICT

I.D.O.T TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS					TOTAL WATTAGE
TYPE	NO. LAMPS	WATTAGE INCAND.	LED	%OPERATION	
SIGNAL (RED)	11		17	0.50	93.5
(YELLOW)	7		25	0.25	43.75
(GREEN)	7		15	0.25	26.25
ARROW	16		12	0.10	19.2
CONTROLLER	1		100	1.00	100
TOTAL =					282.7

ENERGY COSTS TO: TOTAL = 282.7

ENERGY SUPPLY CONTACT: CUSTOMER DESIGN & CONSTRUCTION OFFICE  
PHONE: (815) 727-5656  
COMPANY: COMED SOUTHERN REGION

FOUNDATION DEPTH	FT. (m)	CABLE SLACK	FT. (m)	VERTICAL	FT. (m)
TYPE A - POST	4 (1.2)	HANDHOLE	6.5 (2.0)	ALL FOUNDATIONS	3.5 (1.0)
D - CONTROLLER	4 (1.2)	DOUBLE HANDHOLE	13 (4.0)	MAST ARM (L) POLE	20'+L-2'= (6m+L-0.6m)=
E - M. ARM POLE		SIGNAL POST	2 (1.0)		
24" (600mm)	10 (3.0)	CONTROLLER CAB.	1 (0.5)	BRACKET MOUNTED	13 (4.0)
30" (750mm)	15 (4.6)	FIBER OPTIC	13 (4.0)	PED. PUSHBUTTON	4 (1.2)
		ELECTRIC SERVICE	1 (0.5)	ELECTRIC SERVICE	13.5 (4.1)
		GROUND CABLE	1 (0.5)	SERVICE TO GROUND	13.5 (4.1)
				POST MOUNTED	6 (1.8)

**PARSONS BRINCKERHOFF**  
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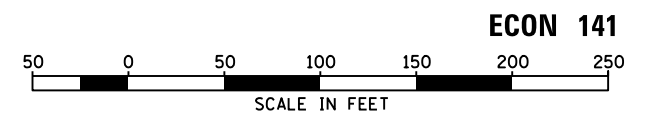
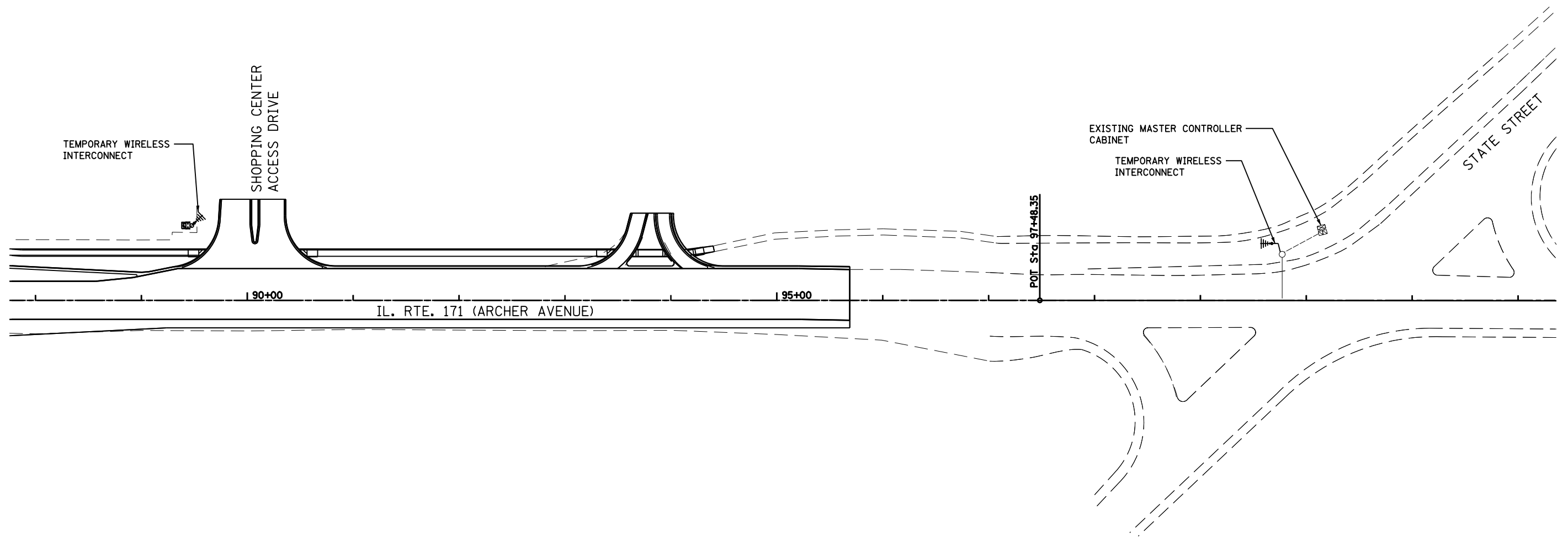
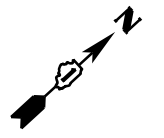
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PLOT SCALE = NTS	CHECKED - RT	REVISED -
PLOT DATE = 12-APR-2016	DATE - 4/12/2016	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

SCHEDULE OF QUANTITIES, CABLE PLAN, PHASE DESIGNATION DIAGRAM  
AND EMERGENCY VEHICLE PREEMPTION SEQUENCE  
IL RTE 171 (ARCHER AVENUE) AND WEST 135th STREET

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
577	C-1-B	WILL/COOK	186	84
CONTRACT NO. 60H21			ILLINOIS FED. AID PROJECT	

ECON 141



**ECON 141**

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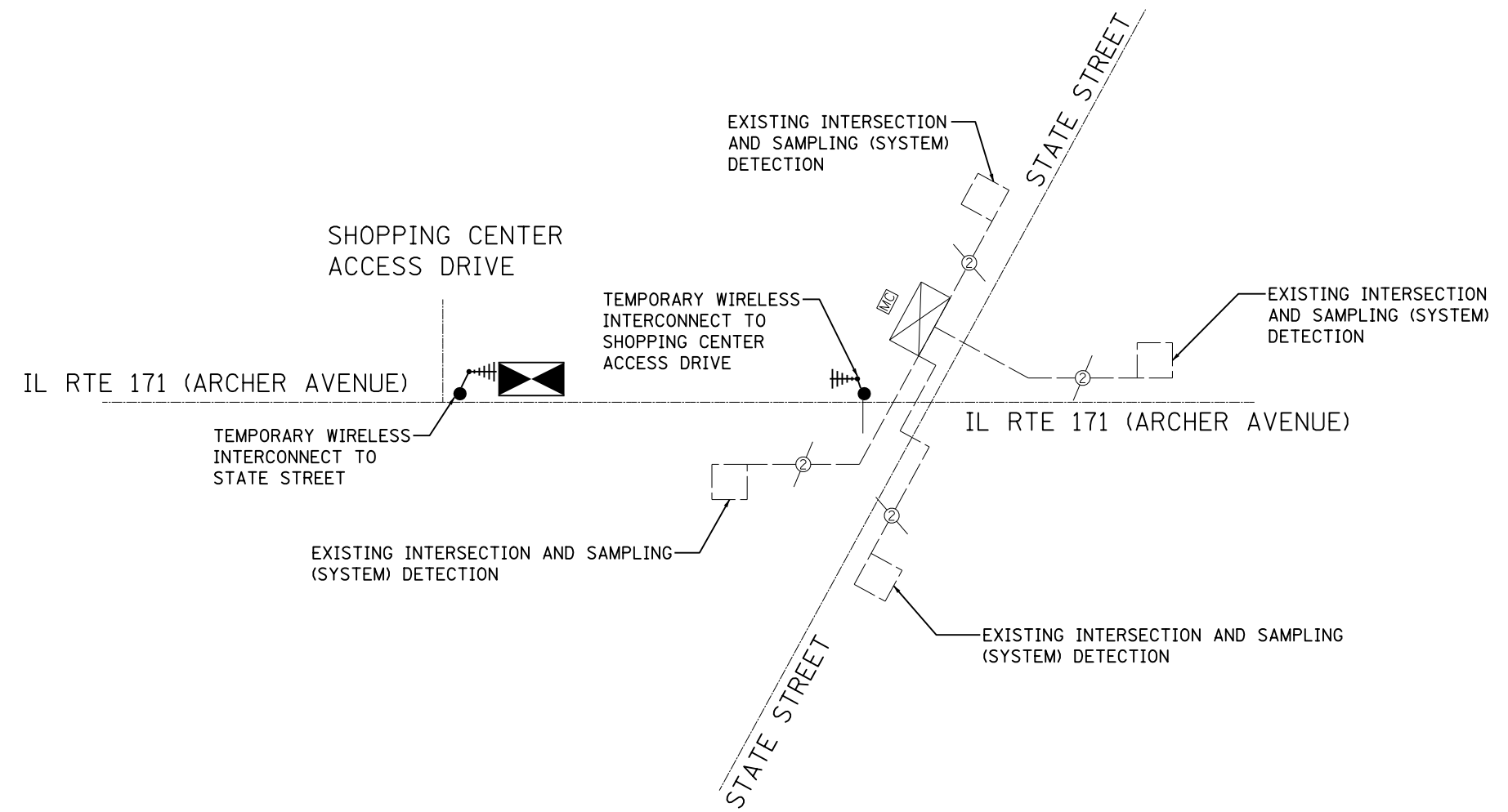
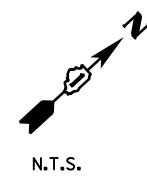
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DRAWN - CRG	REVISIONS	
PLOT SCALE = 50	CHECKED - RT	REVISED -
PLOT DATE = 12-APR-2016	DATE - 4/12/2016	REVISED -

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**TEMPORARY INTERCONNECT PLAN  
 IL 171 (ARCHER AVENUE) - SHOPPING CENTER ACCESS DRIVE  
 TO STATE STREET**

SCALE: 50 SHEET NO. 10 OF 14 SHEETS STA. 73+14.82 TO STA. 102+35.09

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
577	C-1-B	WILL/COOK	186	85
CONTRACT NO. 60H21			ILLINOIS FED. AID PROJECT	



**ECON 141**

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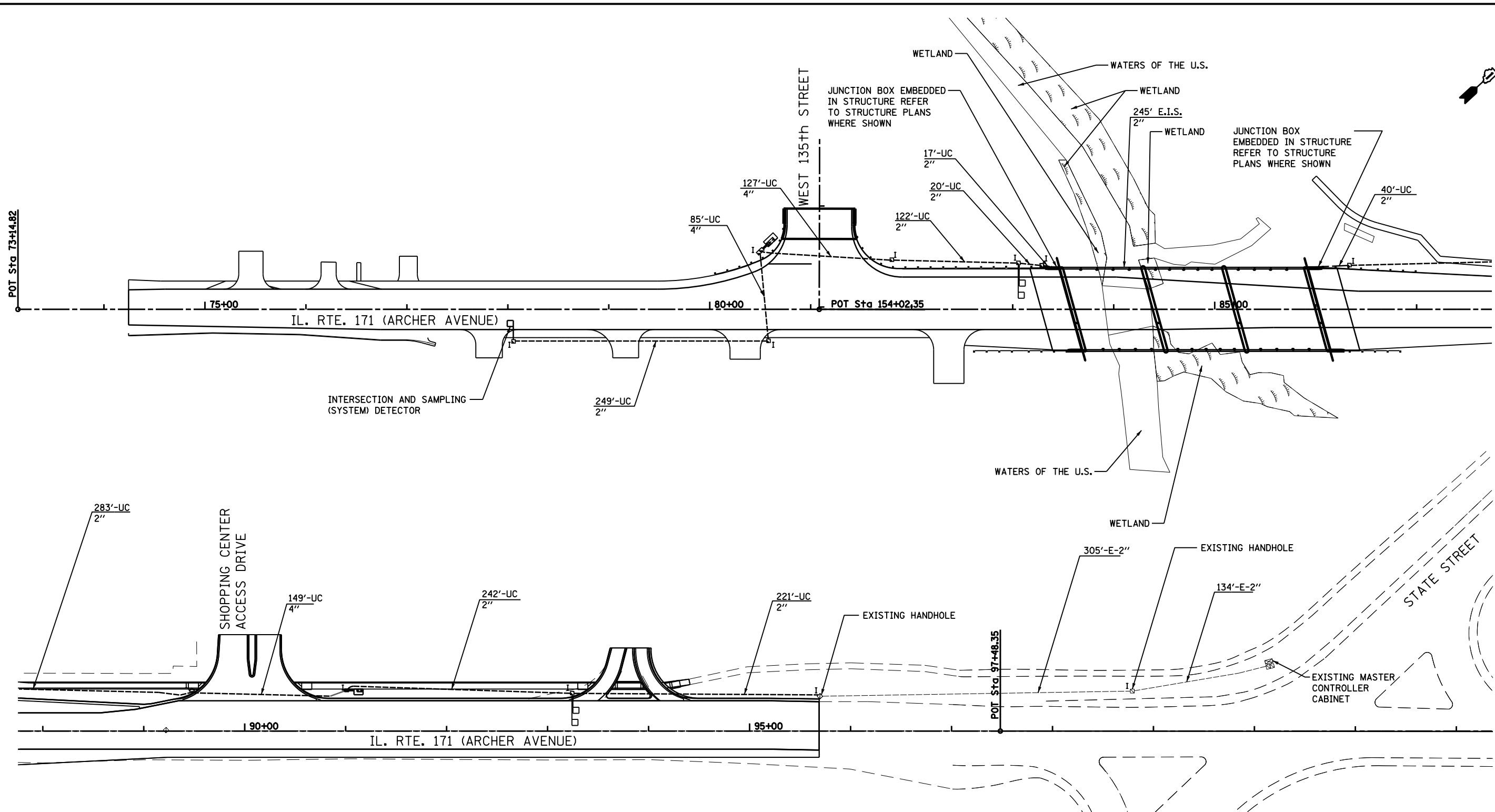
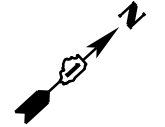
**PARSONS BRINCKERHOFF**  
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USER NAME = gulickr	DESIGNED - CRG	REVISED -
	DRAWN - CRG	REVISED -
PLOT SCALE = NTS	CHECKED - RT	REVISED -
PLOT DATE = 12-APR-2016	DATE - 4/12/2016	REVISED -

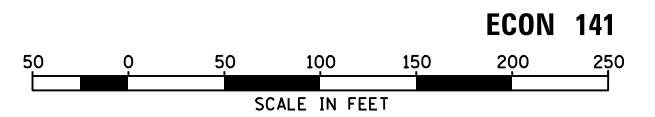
**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**TEMPORARY INTERCONNECT SCHEMATIC  
 IL 171 (ARCHER AVENUE) - SHOPPING CENTER ACCESS DRIVE  
 TO STATE STREET**  
 SCALE: N.T.S. SHEET NO. 11 OF 14 SHEETS STA. 73+14.82 TO STA. 102+35.09

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
577	C-1-B	WILL/COOK	186	86
CONTRACT NO. 60H21			ILLINOIS FED. AID PROJECT	



NOTE: THE SIGNAL AT THE ENTRANCE TO THE SHOPPING CENTER SHALL INTERCONNECT WITH THE ADJACENT SIGNAL AT THE INTERSECTION OF IL-171 AND STATE STREET. THE PROPOSED FIBER OPTIC AND TRACER CABLE FROM THE CONTROLLER AT THE SIGNAL AT THE ENTRANCE TO THE SHOPPING CENTER SHALL RUN CONTINUOUSLY THROUGH THE PROPOSED CONDUIT TO THE EXISTING HAND HOLE NOTED ON THE PLANS. AT THIS POINT THE FIBER OPTIC AND TRACER CABLES SHALL RUN THROUGH THE EXISTING CONDUIT AND HAND HOLES TO THE CONTROLLER AT THE INTERSECTION OF IL-171 AND STATE STREET. THE FIBER OPTIC AND TRACER CABLES NORTH OF THE PROJECT LIMITS ARE INCLUDED IN THE QUANTITIES.



ECON 141

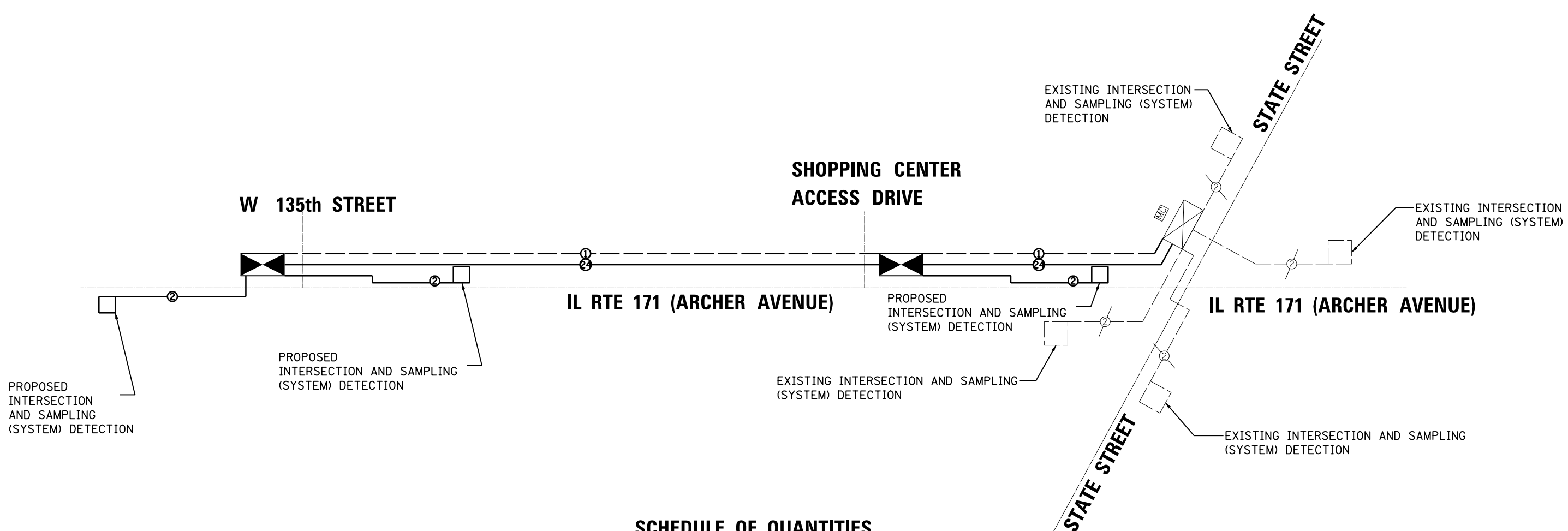
**PARSONS BRINCKERHOFF**  
 230 West Monroe St., Suite 900  
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USER NAME = gulickor	DESIGNED - CRG	REVISED -
PLOT SCALE = 50	DRAWN - CRG	REVISED -
PLOT DATE = 12-APR-2016	CHECKED - RT	REVISED -
	DATE - 4/12/2016	REVISED -

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

INTERCONNECT PLAN  
 IL 171 (ARCHER AVENUE) - W 135TH STREET TO STATE STREET  
 SCALE: 50 SHEET NO. 12 OF 14 SHEETS STA. 73+14.82 TO STA. 102+35.09

F.A.P. RTE. 577	SECTION C-1-B	COUNTY WILL/COOK	TOTAL SHEETS 186	SHEET NO. 87
CONTRACT NO. 60H21			ILLINOIS FED. AID PROJECT	



**SCHEDULE OF QUANTITIES**

QTY	UNIT	DESCRIPTION
581	FOOT	UNDERGROUND CONDUIT, 2 IN. DIA. GALVANIZED STEEL
245	FOOT	CONDUIT EMBEDDED IN STRUCTURE, 2 IN. DIA. PVC
2	EACH	JUNCTION BOX EMBEDDED IN STRUCTURE, 12"X8"X6"
2086	FOOT	FIBER OPTIC CABLE IN CONDUIT NO. 62.5/125 MM12F SM24F
2086	FOOT	ELECTRIC CABLE IN CONDUIT, TRACER, NO. 14 1C
1	EACH	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION
1	EACH	OPTIMIZE TRAFFIC SIGNAL SYSTEM
1	EACH	HANDHOLE
50	FOOT	ROD AND CLEAN EXISTING CONDUIT
1	LSUM	TEMPORARY WIRELESS INTERCONNECT, COMPLETE

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**PARSONS BRINCKERHOFF**  
 230 West Monroe St., Suite 900  
 Chicago, IL 60606, (312) 782-8150

USER NAME = gulickr	DESIGNED - CRG	REVISED -
	DRAWN - CRG	REVISED -
PLOT SCALE = NTS	CHECKED - RT	REVISED -
PLOT DATE = 12-APR-2016	DATE - 4/12/2016	REVISED -

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

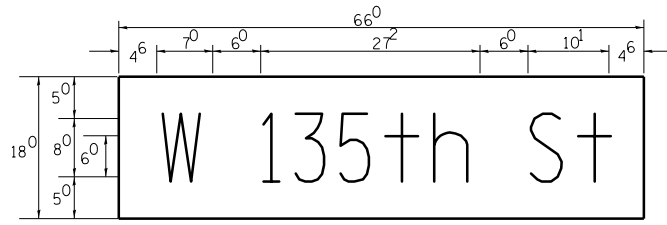
INTERCONNECT SCHEMATIC  
 IL 171 (ARCHER AVENUE) - W 135TH STREET TO STATE STREET  
 SCALE: NTS SHEET NO. 13 OF 14 SHEETS STA. 73+14.82 TO STA. 102+35.09

F.A.P. RTE. 577	SECTION C-1-B	COUNTY WILL/COOK	TOTAL SHEETS 186	SHEET NO. 88
CONTRACT NO. 60H21			ILLINOIS FED. AID PROJECT	

**ECON 141**

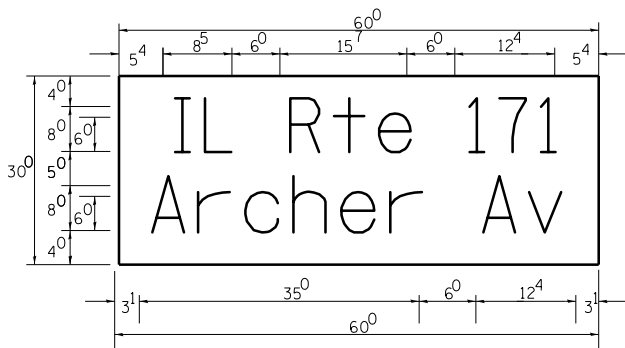


PANEL SIGN DESIGN TYPE 1



Sq. M. each  
 8.25 Sq. Ft. each  
 2 Required  
 Design Series D

NOTE: SIGN DIMENSIONS ARE IN ENGLISH UNITS



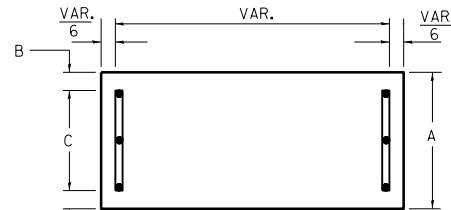
Sq. M. each  
 12.5 Sq. Ft. each  
 4 Required  
 Design Series D

GENERAL NOTES

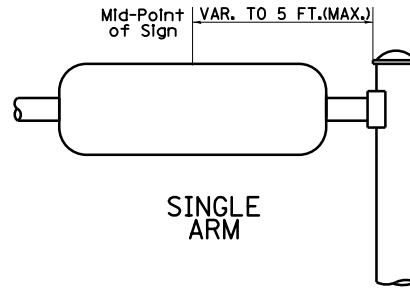
- WHERE MAST ARM MOUNTED STREET NAME SIGNS ARE SPECIFIED, THE MAST ARM ASSEMBLY AND POLES SHALL BE DESIGNED TO SUPPORT THE LOADINGS CALLED FOR ON STANDARDS 834001, 834006 AND 834011, AS APPLICABLE, PLUS TWO (2) SIGN PANELS 2'-6" x 6'-0" MOUNTED AS SHOWN. THE DESIGN SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF THE CURRENT "STANDARD SPECIFICATIONS FOR STRUCTURAL SUPPORTS FOR HIGHWAY SIGNS, LUMINAIRES, AND TRAFFIC SIGNALS" AS PUBLISHED BY THE AMERICAN ASSOCIATION OF STATE HIGHWAY AND TRANSPORTATION OFFICIALS FOR 80 M.P.H. WIND VELOCITY.
- ALL SIGNS SHALL HAVE A WHITE REFLECTORIZED LEGEND AND BORDER ON A GREEN REFLECTORIZED BACKGROUND, TYPE A SHEETING.
- THE SIGN LENGTH SHOULD BE INCREASED IN 6-INCH INCREMENTS, BUT THE OVERALL LENGTH SHOULD NOT EXCEED 6'-0".
- ALL BORDERS SHALL BE 3/4" WIDE AND CORNER RADIUS SHALL BE 2-1/4" .
- SIGNFIX ALUMINUM CHANNEL FRAMING SYSTEM SHALL BE USED FOR ALL SIGNS ATTACHED TO SIGNAL POLES AND POSTS. LOCAL SUPPLIERS OF THE SIGNFIX ALUMINUM CHANNEL FRAMING SYSTEM ARE:
  - \* A.K.T. CORPORATION SCHAUMBURG, IL
  - \* TUCKER COMPANY, INC. WAUWATOSA, WI
  - \* AMERICAN FABRICATION CO. CHICAGO HEIGHTS, IL
  - \* WESTERN TRAFFIC CONTROL INC. CICERO, IL

**PARTS LISTING:**  
 SIGN CHANNEL PART #HPN053 (MED. CHANNEL)  
 SIGN SCREWS 1/4" x 14 x 1" H.W.H. #3  
 BRACKETS PART #HPN034 (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/BACKET OF THE ABOVE PRODUCT.

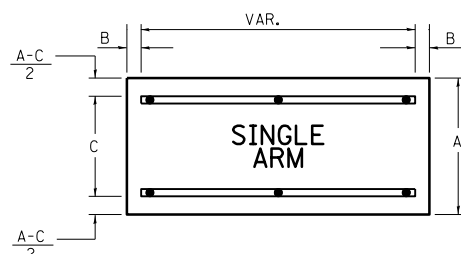
SUPPORTING CHANNELS



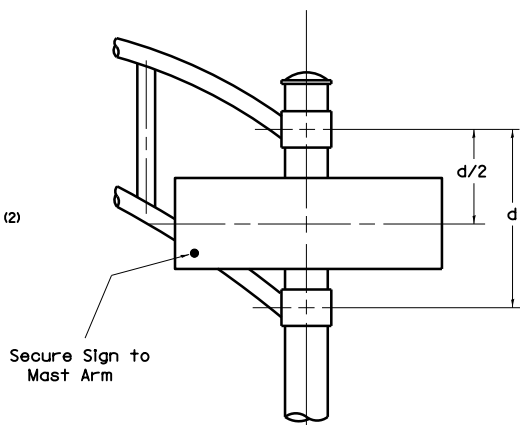
A	B	C
18"	2"	14"



SUPPORTING CHANNELS



A	B	C
18"	2"	12"
30"	2"	22"



DUAL ARM

SIGNFIX ALUMINUM CHANNEL FRAMING SYSTEM  
 Shall be used. See Note #5.

Upper Case To Lower Case  
 Spacing Chart 8-6 Inch Series "C & D"

EXAMPLE, 2<sup>3</sup> DENOTES 3/8"

FIRST LETTER	SERIES	SECOND LETTER															
		a c d e	g o q	b h i k l	m n p r u	f w	J	s t	v y	x	z						
A W X		1 <sup>2</sup>	1 <sup>4</sup>	1 <sup>4</sup>	1 <sup>5</sup>	1 <sup>2</sup>	1 <sup>4</sup>	0 <sup>6</sup>	1 <sup>0</sup>	1 <sup>1</sup>	1 <sup>4</sup>	0 <sup>6</sup>	1 <sup>0</sup>	1 <sup>1</sup>	1 <sup>2</sup>	1 <sup>4</sup>	
B		1 <sup>4</sup>	1 <sup>5</sup>	2 <sup>0</sup>	2 <sup>1</sup>	1 <sup>4</sup>	1 <sup>5</sup>	1 <sup>1</sup>	1 <sup>2</sup>	1 <sup>4</sup>	1 <sup>5</sup>	1 <sup>2</sup>	1 <sup>4</sup>	1 <sup>2</sup>	1 <sup>4</sup>	1 <sup>6</sup>	1 <sup>7</sup>
C E G		1 <sup>4</sup>	1 <sup>5</sup>	2 <sup>0</sup>	2 <sup>1</sup>	1 <sup>2</sup>	1 <sup>4</sup>	0 <sup>6</sup>	1 <sup>0</sup>	1 <sup>2</sup>	1 <sup>4</sup>	1 <sup>2</sup>	1 <sup>4</sup>	1 <sup>4</sup>	1 <sup>5</sup>	1 <sup>4</sup>	1 <sup>5</sup>
D O Q R		1 <sup>4</sup>	1 <sup>5</sup>	2 <sup>0</sup>	2 <sup>1</sup>	1 <sup>4</sup>	1 <sup>5</sup>	0 <sup>6</sup>	1 <sup>0</sup>	1 <sup>2</sup>	1 <sup>4</sup>	1 <sup>2</sup>	1 <sup>4</sup>	1 <sup>4</sup>	1 <sup>5</sup>	1 <sup>4</sup>	1 <sup>5</sup>
F		0 <sup>5</sup>	0 <sup>6</sup>	1 <sup>4</sup>	1 <sup>5</sup>	0 <sup>6</sup>	1 <sup>0</sup>	0 <sup>5</sup>	0 <sup>6</sup>	0 <sup>6</sup>	1 <sup>0</sup>	0 <sup>6</sup>	1 <sup>0</sup>	0 <sup>6</sup>	1 <sup>0</sup>	1 <sup>1</sup>	1 <sup>2</sup>
H I M N		2 <sup>0</sup>	2 <sup>1</sup>	2 <sup>2</sup>	2 <sup>4</sup>	2 <sup>0</sup>	2 <sup>1</sup>	1 <sup>4</sup>	1 <sup>5</sup>	1 <sup>6</sup>	1 <sup>7</sup>	1 <sup>6</sup>	1 <sup>7</sup>	2 <sup>0</sup>	2 <sup>1</sup>	2 <sup>0</sup>	2 <sup>1</sup>
J U		2 <sup>0</sup>	2 <sup>1</sup>	2 <sup>0</sup>	2 <sup>1</sup>	1 <sup>6</sup>	1 <sup>7</sup>	1 <sup>4</sup>	1 <sup>5</sup>	1 <sup>6</sup>	1 <sup>7</sup>	1 <sup>6</sup>	1 <sup>7</sup>	1 <sup>6</sup>	1 <sup>7</sup>	2 <sup>0</sup>	2 <sup>1</sup>
K L		1 <sup>1</sup>	1 <sup>2</sup>	1 <sup>6</sup>	1 <sup>7</sup>	1 <sup>1</sup>	1 <sup>2</sup>	0 <sup>5</sup>	0 <sup>6</sup>	1 <sup>1</sup>	1 <sup>2</sup>	1 <sup>1</sup>	1 <sup>2</sup>	1 <sup>1</sup>	1 <sup>2</sup>	1 <sup>2</sup>	1 <sup>4</sup>
P		1 <sup>2</sup>	1 <sup>4</sup>	1 <sup>4</sup>	1 <sup>5</sup>	1 <sup>2</sup>	1 <sup>4</sup>	0 <sup>5</sup>	0 <sup>6</sup>	1 <sup>1</sup>	1 <sup>2</sup>	1 <sup>1</sup>	1 <sup>2</sup>	1 <sup>2</sup>	1 <sup>4</sup>	1 <sup>2</sup>	1 <sup>4</sup>
S		1 <sup>2</sup>	1 <sup>4</sup>	1 <sup>6</sup>	1 <sup>7</sup>	1 <sup>2</sup>	1 <sup>4</sup>	0 <sup>6</sup>	1 <sup>0</sup>	1 <sup>2</sup>	1 <sup>4</sup>	1 <sup>2</sup>	1 <sup>4</sup>	1 <sup>2</sup>	1 <sup>4</sup>	1 <sup>2</sup>	1 <sup>4</sup>
T		1 <sup>1</sup>	1 <sup>2</sup>	1 <sup>6</sup>	1 <sup>7</sup>	0 <sup>6</sup>	1 <sup>0</sup>	0 <sup>6</sup>	1 <sup>0</sup>	1 <sup>1</sup>	1 <sup>2</sup>	1 <sup>1</sup>	1 <sup>2</sup>	1 <sup>1</sup>	1 <sup>2</sup>	1 <sup>2</sup>	1 <sup>4</sup>
V		0 <sup>6</sup>	1 <sup>0</sup>	1 <sup>4</sup>	1 <sup>5</sup>	1 <sup>1</sup>	1 <sup>2</sup>	0 <sup>6</sup>	1 <sup>0</sup>	1 <sup>2</sup>	1 <sup>4</sup>	1 <sup>2</sup>	1 <sup>4</sup>	1 <sup>2</sup>	1 <sup>4</sup>	1 <sup>2</sup>	1 <sup>4</sup>
Y		0 <sup>5</sup>	0 <sup>6</sup>	1 <sup>4</sup>	1 <sup>5</sup>	0 <sup>6</sup>	1 <sup>0</sup>	0 <sup>5</sup>	0 <sup>6</sup>	0 <sup>5</sup>	0 <sup>7</sup>	0 <sup>5</sup>	0 <sup>6</sup>	0 <sup>6</sup>	1 <sup>0</sup>	1 <sup>1</sup>	1 <sup>2</sup>
Z		1 <sup>6</sup>	1 <sup>7</sup>	2 <sup>2</sup>	2 <sup>4</sup>	1 <sup>6</sup>	1 <sup>7</sup>	1 <sup>2</sup>	1 <sup>4</sup>	1 <sup>6</sup>	1 <sup>7</sup>	1 <sup>6</sup>	1 <sup>7</sup>	1 <sup>6</sup>	1 <sup>7</sup>	2 <sup>0</sup>	2 <sup>1</sup>

Lower Case To Lower Case  
 Spacing Chart 6 Inch Series "C & D"

FIRST LETTER	SERIES	SECOND LETTER															
		a c d e	g o q	b h i k l	m n p r u	f w	J	s t	v y	x	z						
ad h g l j		1 <sup>6</sup>	1 <sup>7</sup>	2 <sup>2</sup>	2 <sup>4</sup>	1 <sup>6</sup>	1 <sup>7</sup>	1 <sup>2</sup>	1 <sup>4</sup>	1 <sup>4</sup>	1 <sup>5</sup>	1 <sup>4</sup>	1 <sup>5</sup>	1 <sup>6</sup>	1 <sup>7</sup>	1 <sup>6</sup>	1 <sup>7</sup>
l m n q u		1 <sup>6</sup>	1 <sup>7</sup>	2 <sup>2</sup>	2 <sup>4</sup>	1 <sup>6</sup>	1 <sup>7</sup>	1 <sup>2</sup>	1 <sup>4</sup>	1 <sup>4</sup>	1 <sup>5</sup>	1 <sup>4</sup>	1 <sup>5</sup>	1 <sup>6</sup>	1 <sup>7</sup>	1 <sup>6</sup>	1 <sup>7</sup>
b f k o p s		1 <sup>2</sup>	1 <sup>4</sup>	1 <sup>6</sup>	1 <sup>7</sup>	1 <sup>1</sup>	1 <sup>2</sup>	0 <sup>5</sup>	0 <sup>6</sup>	1 <sup>1</sup>	1 <sup>2</sup>	1 <sup>1</sup>	1 <sup>2</sup>	1 <sup>2</sup>	1 <sup>4</sup>	1 <sup>2</sup>	1 <sup>4</sup>
c e		1 <sup>2</sup>	1 <sup>4</sup>	1 <sup>6</sup>	1 <sup>7</sup>	1 <sup>2</sup>	1 <sup>4</sup>	0 <sup>6</sup>	1 <sup>0</sup>	1 <sup>2</sup>	1 <sup>4</sup>	1 <sup>2</sup>	1 <sup>4</sup>	1 <sup>2</sup>	1 <sup>4</sup>	1 <sup>2</sup>	1 <sup>4</sup>
r		0 <sup>6</sup>	1 <sup>0</sup>	1 <sup>2</sup>	1 <sup>4</sup>	0 <sup>6</sup>	1 <sup>0</sup>	0 <sup>3</sup>	0 <sup>3</sup>	0 <sup>5</sup>	0 <sup>6</sup>	0 <sup>5</sup>	0 <sup>6</sup>	0 <sup>6</sup>	1 <sup>0</sup>	0 <sup>6</sup>	1 <sup>0</sup>
t z		1 <sup>2</sup>	1 <sup>4</sup>	1 <sup>6</sup>	1 <sup>7</sup>	1 <sup>2</sup>	1 <sup>4</sup>	0 <sup>6</sup>	1 <sup>0</sup>	1 <sup>1</sup>	1 <sup>2</sup>	1 <sup>1</sup>	1 <sup>2</sup>	1 <sup>2</sup>	1 <sup>4</sup>	1 <sup>2</sup>	1 <sup>4</sup>
v y		1 <sup>1</sup>	1 <sup>2</sup>	1 <sup>4</sup>	1 <sup>5</sup>	1 <sup>1</sup>	1 <sup>2</sup>	0 <sup>5</sup>	0 <sup>6</sup>	0 <sup>6</sup>	1 <sup>0</sup>	0 <sup>6</sup>	1 <sup>0</sup>	1 <sup>1</sup>	1 <sup>2</sup>	1 <sup>1</sup>	1 <sup>2</sup>
w		1 <sup>1</sup>	1 <sup>2</sup>	1 <sup>4</sup>	1 <sup>5</sup>	1 <sup>1</sup>	1 <sup>2</sup>	0 <sup>5</sup>	0 <sup>6</sup>	1 <sup>1</sup>	1 <sup>2</sup>	1 <sup>1</sup>	1 <sup>2</sup>	1 <sup>1</sup>	1 <sup>2</sup>	1 <sup>2</sup>	1 <sup>4</sup>
x		1 <sup>2</sup>	1 <sup>4</sup>	1 <sup>6</sup>	1 <sup>7</sup>	1 <sup>1</sup>	1 <sup>2</sup>	0 <sup>5</sup>	0 <sup>6</sup>	1 <sup>1</sup>	1 <sup>2</sup>	1 <sup>1</sup>	1 <sup>2</sup>	1 <sup>1</sup>	1 <sup>2</sup>	1 <sup>2</sup>	1 <sup>4</sup>

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

FIRST NUMBER	SERIES	SECOND NUMBER																			
		0	1	2	3	4	5	6	7	8	9										
0 9		1 <sup>6</sup>	1 <sup>7</sup>	1 <sup>6</sup>	1 <sup>7</sup>	1 <sup>4</sup>	1 <sup>5</sup>	1 <sup>2</sup>	1 <sup>4</sup>	1 <sup>4</sup>	1 <sup>5</sup>	1 <sup>4</sup>	1 <sup>5</sup>	1 <sup>6</sup>	1 <sup>7</sup>	1 <sup>2</sup>	1 <sup>4</sup>	1 <sup>6</sup>	1 <sup>7</sup>	1 <sup>6</sup>	1 <sup>7</sup>
1		2 <sup>0</sup>	2 <sup>1</sup>	2 <sup>0</sup>	2 <sup>1</sup>	2 <sup>0</sup>	2 <sup>1</sup>	2 <sup>0</sup>	2 <sup>1</sup>	1 <sup>4</sup>	1 <sup>5</sup>	1 <sup>4</sup>	1 <sup>5</sup>	1 <sup>4</sup>	1 <sup>5</sup>	2 <sup>0</sup>	2 <sup>1</sup>	2 <sup>0</sup>	2 <sup>1</sup>	2 <sup>0</sup>	2 <sup>1</sup>
2 3 4		1 <sup>4</sup>	1 <sup>5</sup>	1 <sup>4</sup>	1 <sup>5</sup>	1 <sup>4</sup>	1 <sup>5</sup>	1 <sup>2</sup>	1 <sup>4</sup>	1 <sup>4</sup>	1 <sup>5</sup>	1 <sup>4</sup>	1 <sup>5</sup>	1 <sup>1</sup>	1 <sup>2</sup>	1 <sup>1</sup>	1 <sup>2</sup>	1 <sup>1</sup>	1 <sup>2</sup>	1 <sup>1</sup>	1 <sup>2</sup>
5		1 <sup>4</sup>	1 <sup>5</sup>	1 <sup>4</sup>	1 <sup>5</sup>	1 <sup>4</sup>	1 <sup>5</sup>	1 <sup>1</sup>	1 <sup>2</sup>	1 <sup>1</sup>	1 <sup>2</sup>	1 <sup>1</sup>	1 <sup>2</sup>	1 <sup>1</sup>	1 <sup>2</sup>	1 <sup>1</sup>	1 <sup>2</sup>	1 <sup>1</sup>	1 <sup>2</sup>	1 <sup>1</sup>	1 <sup>2</sup>
6		1 <sup>6</sup>	1 <sup>7</sup>	1 <sup>4</sup>	1 <sup>5</sup>	1 <sup>4</sup>	1 <sup>5</sup>	1 <sup>2</sup>	1 <sup>4</sup>	1 <sup>4</sup>	1 <sup>5</sup>	1 <sup>4</sup>	1 <sup>5</sup>	1 <sup>1</sup>	1 <sup>2</sup>	1 <sup>1</sup>	1 <sup>2</sup>	1 <sup>1</sup>	1 <sup>2</sup>	1 <sup>1</sup>	1 <sup>2</sup>
7		1 <sup>2</sup>	1 <sup>4</sup>	1 <sup>2</sup>	1 <sup>4</sup>	1 <sup>4</sup>	1 <sup>5</sup>	1 <sup>2</sup>	1 <sup>4</sup>	1 <sup>4</sup>	1 <sup>5</sup>	1 <sup>2</sup>	1 <sup>4</sup>	1 <sup>1</sup>	1 <sup>2</sup>	1 <sup>1</sup>	1 <sup>2</sup>	1 <sup>1</sup>	1 <sup>2</sup>	1 <sup>1</sup>	1 <sup>2</sup>
8		1 <sup>6</sup>	1 <sup>7</sup>	1 <sup>6</sup>	1 <sup>7</sup>	1 <sup>4</sup>	1 <sup>5</sup>	1 <sup>2</sup>	1 <sup>4</sup>	1 <sup>4</sup>	1 <sup>5</sup>	1 <sup>2</sup>	1 <sup>4</sup>	1 <sup>1</sup>	1 <sup>2</sup>	1 <sup>1</sup>	1 <sup>2</sup>	1 <sup>1</sup>	1 <sup>2</sup>	1 <sup>1</sup>	1 <sup>2</sup>

UPPER AND LOWER CASE LETTER WIDTHS

LETTERS	6 INCH UPPER CASE LETTERS		8 INCH UPPER CASE LETTERS		LETTERS	6 INCH LOWER CASE LETTERS	
	C	D	C	D		C	D
A	3 <sup>6</sup>	5 <sup>0</sup>	5 <sup>0</sup>	6 <sup>5</sup>	a	3 <sup>5</sup>	4 <sup>2</sup>
B	3 <sup>2</sup>	4 <sup>0</sup>	4 <sup>3</sup>	5 <sup>3</sup>	b	3 <sup>5</sup>	4 <sup>2</sup>
C	3 <sup>2</sup>	4 <sup>0</sup>	4 <sup>3</sup>	5 <sup>3</sup>	c	3 <sup>5</sup>	4 <sup>1</sup>
D	3 <sup>2</sup>	4 <sup>0</sup>	4 <sup>3</sup>	5 <sup>3</sup>	d	3 <sup>5</sup>	4 <sup>2</sup>
E	3 <sup>0</sup>	3 <sup>5</sup>	4 <sup>0</sup>	4 <sup>7</sup>	e	3 <sup>5</sup>	4 <sup>2</sup>
F	3 <sup>0</sup>	3 <sup>5</sup>	4 <sup>0</sup>	4 <sup>7</sup>	f	2 <sup>3</sup>	2 <sup>6</sup>
G	3 <sup>2</sup>	4 <sup>0</sup>	4 <sup>3</sup>	5 <sup>3</sup>	g	3 <sup>5</sup>	4 <sup>2</sup>
H	3 <sup>2</sup>	4 <sup>0</sup>	4 <sup>3</sup>	5 <sup>3</sup>	h	3 <sup>5</sup>	4 <sup>2</sup>
I	0 <sup>7</sup>	0 <sup>7</sup>	1 <sup>1</sup>	1 <sup>2</sup>	i	1 <sup>1</sup>	1 <sup>1</sup>
J	3 <sup>0</sup>	3 <sup>6</sup>	4 <sup>0</sup>	5 <sup>0</sup>	j	2 <sup>0</sup>	2 <sup>2</sup>
K	3 <sup>2</sup>	4 <sup>1</sup>	4 <sup>3</sup>	5 <sup>4</sup>	k	3 <sup>5</sup>	4 <sup>2</sup>
L	3 <sup>0</sup>	3 <sup>5</sup>	4 <sup>0</sup>	4 <sup>7</sup>	l	1 <sup>1</sup>	1 <sup>1</sup>
M	3 <sup>7</sup>	4 <sup>5</sup>	5 <sup>1</sup>	6 <sup>1</sup>	m	6 <sup>0</sup>	7 <sup>0</sup>
N	3 <sup>2</sup>	4 <sup>0</sup>	4 <sup>3</sup>	5 <sup>3</sup>	n	3 <sup>5</sup>	4 <sup>2</sup>
O	3 <sup>4</sup>	4 <sup>2</sup>	4 <sup>5</sup>	5 <sup>5</sup>	o	3 <sup>6</sup>	4 <sup>3</sup>
P	3 <sup>2</sup>	4 <sup>0</sup>	4 <sup>3</sup>	5 <sup>3</sup>	p	3 <sup>5</sup>	4 <sup>2</sup>
Q	3 <sup>4</sup>	4 <sup>2</sup>	4 <sup>5</sup>	5 <sup>5</sup>	q	3 <sup>5</sup>	4 <sup>2</sup>
R	3 <sup>2</sup>	4 <sup>0</sup>	4 <sup>3</sup>	5 <sup>3</sup>	r	2 <sup>6</sup>	3 <sup>2</sup>
S	3 <sup>2</sup>	4 <sup>0</sup>	4 <sup>3</sup>	5 <sup>3</sup>	s	3 <sup>6</sup>	4 <sup>2</sup>
T	3 <sup>0</sup>	3 <sup>5</sup>	4 <sup>0</sup>	4 <sup>7</sup>	t	2 <sup>7</sup>	3 <sup>2</sup>
U	3 <sup>2</sup>	4 <sup>0</sup>	4 <sup>3</sup>	5 <sup>3</sup>	u	3 <sup>5</sup>	4 <sup>2</sup>
V	3 <sup>5</sup>	4 <sup>4</sup>	4 <sup>7</sup>	6 <sup>0</sup>	v	4 <sup>2</sup>	4 <sup>7</sup>
W	4 <sup>4</sup>	5 <sup>2</sup>	6 <sup>0</sup>	7 <sup>0</sup>	w	5 <sup>5</sup>	6 <sup>4</sup>
X	3 <sup>4</sup>	4 <sup>0</sup>	4 <sup>5</sup>	5 <sup>3</sup>	x	4 <sup>4</sup>	5 <sup>1</sup>
Y	3 <sup>6</sup>	5 <sup>0</sup>	5 <sup>0</sup>	6 <sup>6</sup>	y	4 <sup>6</sup>	5 <sup>3</sup>
Z	3 <sup>2</sup>	4 <sup>0</sup>	4 <sup>3</sup>	5 <sup>3</sup>	z	3 <sup>6</sup>	4 <sup>3</sup>

NUMBER	6 INCH SERIES		8 INCH SERIES	
	C	D	C	D
1	1 <sup>2</sup>	1 <sup>4</sup>	1 <sup>5</sup>	2 <sup>0</sup>
2	3 <sup>2</sup>	4 <sup>0</sup>	4 <sup>3</sup>	5 <sup>3</sup>
3	3 <sup>2</sup>	4 <sup>0</sup>	4 <sup>3</sup>	5 <sup>3</sup>
4	3 <sup>5</sup>	4 <sup>3</sup>	4 <sup>7</sup>	5 <sup>7</sup>
5	3 <sup>2</sup>	4 <sup>0</sup>	4 <sup>3</sup>	5 <sup>3</sup>
6	3 <sup>2</sup>	4 <sup>0</sup>	4 <sup>3</sup>	5 <sup>3</sup>
7	3 <sup>2</sup>	4 <sup>0</sup>	4 <sup>3</sup>	5 <sup>3</sup>
8	3 <sup>2</sup>	4 <sup>0</sup>	4 <sup>3</sup>	5 <sup>3</sup>
9	3 <sup>2</sup>	4 <sup>0</sup>	4 <sup>3</sup>	5 <sup>3</sup>
0	3 <sup>4</sup>			

Benchmark: Cross cut in bolt of fire hydrant Elev 653.23 N 1,812,869.636 E 1,075,186.661

Existing Structure: S.M. 099-0080 was originally built in 1926 as F.A.P. Route 577, Section 1997-105-RS.N at Station 84+15.27 utilizing a reinforced deck slab superstructure on concrete closed abutments and a solid wall pier. The superstructure was replaced in 1981 with precast prestressed concrete (P.P.C.) deck beams utilizing the original substructure, with rehab and modifications to the abutments. Currently, the back-to-back abutment length is 58'-0" and the roadway out-to-out deck width is 43'-4". This structure will be removed and replaced utilizing staged construction, to maintain one lane in each direction.

No salvage.

\* Measured at @ North Abutment

\*\* The intersection of 135th Street with IL Route 171 will be moved to be at Station 81+08.40 along @ IL Route 171

\*\*\* Space to miss existing piles

**DESIGN SPECIFICATIONS**

2012 AASHTO LRFD Bridge Design Specifications, 6th Edition with 2013 Interim Revisions.

**DESIGN STRESSES**

**FIELD UNITS**  
 $f'_c = 3,500$  psi (Cast-in-place)  
 $f_y = 60,000$  psi (reinforcement)  
 $f_y = 50,000$  psi (M270 Grade 50)

**PRECAST PRESTRESSED UNITS**

$f'_c = 7,000$  psi  
 $f'_ci = 6,000$  psi  
 $f'_s = 270,000$  psi ( $\frac{1}{2}$ "  $\phi$  low lax. strands)  
 $f_{si} = 201,960$  psi ( $\frac{1}{2}$ "  $\phi$  low lax. strands)

**SEISMIC DATA**

Seismic Performance Zone (SPZ) = 1  
 Design Spectral Acceleration at 1.0 sec. (SD1) = 0.09g  
 Design Spectral Acceleration at 0.2 sec. (SDS) = 0.16g  
 Soil Site Class = D

**LOADING HL-93**

Allow 50#/sq. ft. for future wearing surface.

STA. 84+80.41  
 BUILT 20-- BY  
 STATE OF ILLINOIS  
 FAP RT. 577 SEC. C-1-B  
 LOADING HL-93  
 STRUCTURE. NO. 099-0537

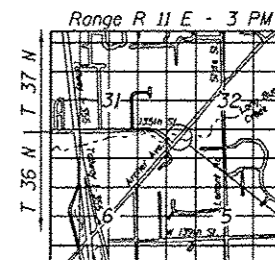
**NAME PLATE**  
 See Std. 515001

**NOTES**

- For General Notes, Index of Sheets and Total Bill of Material, see Sheet S1-02.
- Concrete for Pier 1 shall be cast in dry conditions. Contractor's in-stream means and methods activities needed to achieve dry conditions shall be submitted for approval per General Note No. 4 on Sheet 2. Other requirements of establishing dry conditions shall conform to specification for Cofferdam (Type 2) (Location - I) with a cofferdam design water elevation (CDWE) of 643.36.
- For Section A-A, Waterway Information Table and Design Scour Elevation Table, see Sheet S1-02.

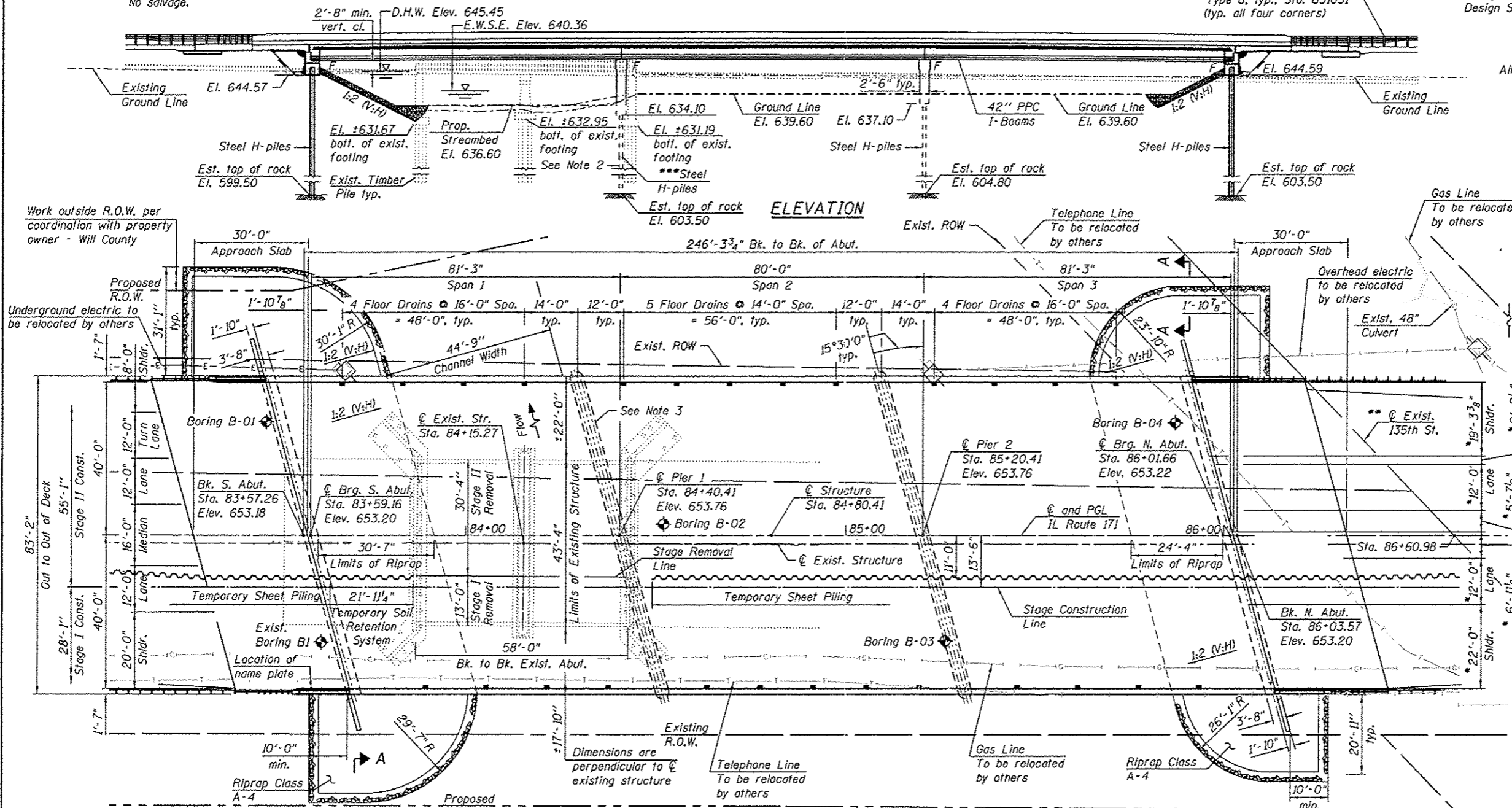
**LEGEND**

Soil boring location



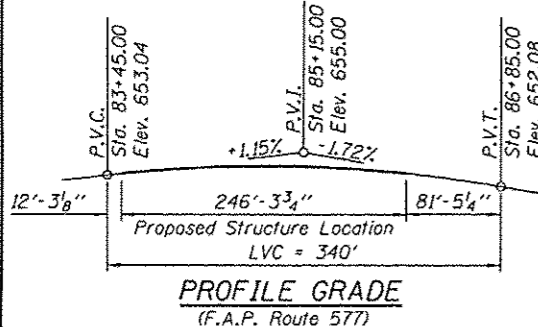
LOCATION SKETCH

**GENERAL PLAN & ELEVATION**  
 ILLINOIS ROUTE 171 OVER LONG RUN CREEK  
 F.A.P. RTE. 577 - SEC. C-1-B  
 WILL COUNTY  
 STATION 84+80.41  
 STRUCTURE NO. 099-0537



**ELEVATION**

**PLAN**



**PROFILE GRADE**  
 (F.A.P. Route 577)

**APPROVED**  
 For Structural Adequacy Only  
  
 Engineer of Bridges & Structures



Signed *Moussa A. Issa*  
 Moussa A. Issa, HBM II. Lic. No. 081-005738  
 Expires 11-30-2016  
 Date 03/16/2016 For Sheets S1-01 Thru S1-41  
 (Total of 41 Sheets)

<b>HBM</b> ENGINEERING GROUP, LLC 4415 WEST HARRISON ST. SUITE 201 HILLSDALE, IL 60142 PHONE: (708) 236-0900 FAX: (708) 236-0901	DESIGNED - MI, JRB	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	GENERAL PLAN AND ELEVATION STRUCTURE NO. 099-0537	F.A.P. RTE. 577	SECTION C-1-B	COUNTY WILL/COOK	TOTAL SHEETS 186	SHEET NO. 90
	DRAWN - JRB	REVISED -			SHEET NO. S1-01 OF 41 SHEETS	CONTRACT NO. 60421			
CHECKED - MI, MA1 DATE - 03/18/2016	REVISED -	REVISED -			ILLINOIS FED. AID PROJECT				

3/16/2016

**GENERAL NOTES:**

1. Reinforcement bars designated (E) shall be epoxy coated.
2. Layout of the slope protection system may be varied to suit ground conditions in the field as directed by the Engineer.
3. The embankment configuration shown shall be the minimum that must be placed and compacted prior to construction of the abutments.
4. Seal coat thickness design is based on the Estimated Water Surface Elevation (EWSE). Cofferdam design details and seal coat design thickness shall be submitted to the Engineer for approval with the cofferdam design.
5. Excavation behind existing abutment walls shall be performed to balance front and back soil pressure before removing the existing superstructure. The Contractor shall sawcut the upper portion of the existing abutment at the stage removal line before stage I removal to ensure the remaining portion will not be prematurely damaged.
6. The Contractor shall drive 1 steel test pile in a permanent location of each abutment and 1 test pile in a permanent location at each pier as directed by the Engineer before ordering the remainder of the piles.
7. Slipforming of the parapet is not allowed.

**WATERWAY INFORMATION**

Drainage Area = 21.2 mi <sup>2</sup>		Exist. Low Grade Elev. 644.40 @ Sta. 86+75		Prop. Low Grade Elev. 650.32 @ Sta. 89+00						
Flood	Freq. Yr.	Q C.F.S.	Opening Sq. Ft.		Nat. H.W.E.		Head - Ft.		Headwater El.	
			Exist.	Prop.	Exist.	Prop.	Exist.	Prop.	Exist.	Prop.
Design	10	1600	407	998	643.88	0.74	0.23	644.62	644.11	
Base	50	2880	413	1336	645.45	0.63	0.28	646.08	645.73	
Overtopping	100	3570	413	1516	646.27	0.51	0.27	646.78	646.54	
Max. Calc.	<30	500	413	1964	648.26	0.31	0.27	648.57	648.53	

10 year velocity through existing bridge = 4.8 fps  
 10 year velocity through prop. bridge = 1.9 fps  
 2 year peak flow (Q) = 640 C.F.S.  
 Estimated 2 year peak flow water surface elevation = 641.50

**DESIGN SCOUR ELEVATION TABLE**

Year Event	Design Scour Elevation (ft.)			
	S. Abut.	Pier 1	Pier 2	N. Abut.
Q100	644.57	635.5	635.5	644.59
Q500	644.57	633.5	631.9	644.59

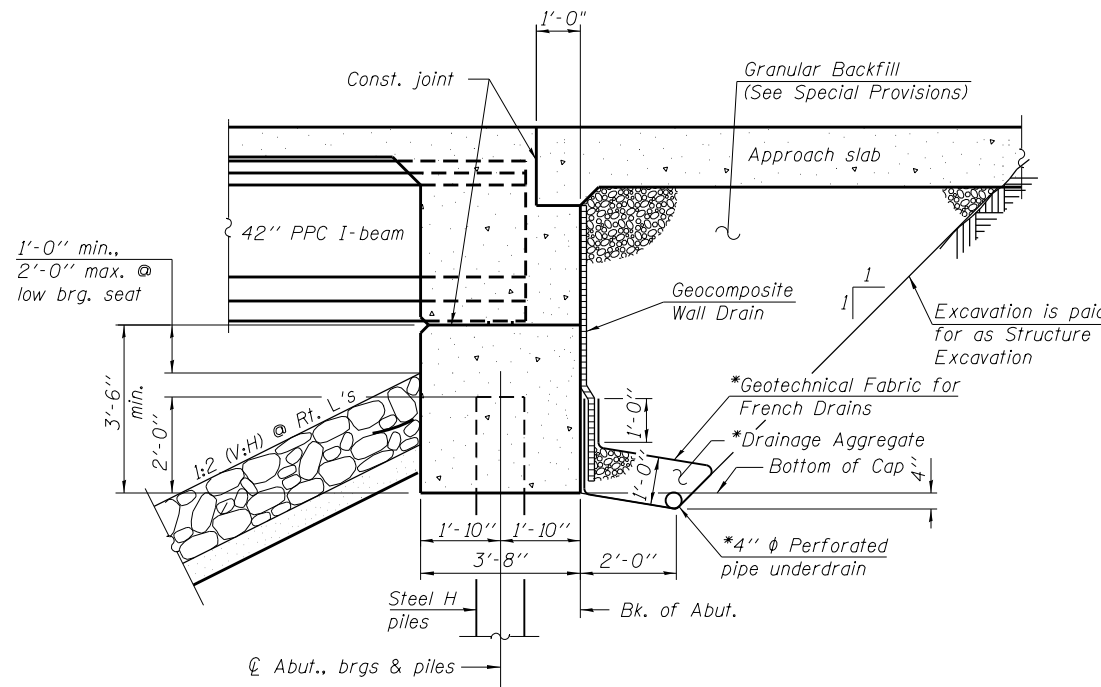
**TOTAL BILL OF MATERIAL**

ITEM	UNIT	SUPER.	SUB.	TOTAL QUANTITY
Stone Riprap, Class A4	SQ YD	-	1,120	1,120
Filter Fabric	SQ YD	-	1,120	1,120
Removal Of Existing Structures	EACH	1	-	1
Structure Excavation	CU YD	-	232	232
Cofferdam Excavation	CU YD	-	353	353
Cofferdam (Type 2) (Location - 1)	EACH	-	1	1
Concrete Superstructure (Approach Slab)	CU YD	235.6	-	235.6
Floor Drains	EACH	26	-	26
Concrete Structures	CU YD	-	400.3	400.3
Concrete Superstructure	CU YD	699.0	-	699.0
Bridge Deck Grooving	SQ YD	2,645	-	2,645
Seal Coat Concrete	CU YD	-	204.3	204.3
Protective Coat	SQ YD	2,949	-	2,949
Furnishing And Erecting Precast Prestressed Concrete I-Beams, 42 In.	FOOT	3,395	-	3,395
Reinforcement Bars, Epoxy Coated**	POUND	243,280	53,860	297,140
Bar Splicers	EACH	1,035	-	1,137
Furnishing Steel Piles HP14x73	FOOT	-	3,065	3,065
Driving Piles	FOOT	-	3,065	3,065
Test Pile Steel HP14x73	EACH	-	4	4
Pile Shoes	EACH	-	72	72
Name Plates	EACH	1	-	1
Temporary Sheet Piling	SQ FT	-	5,036	5,036
Temporary Soil Retention System	SQ FT	-	162	162
Geocomposite Wall Drain	SQ YD	-	164	164
Granular Backfill for Structures	CU YD	-	320	320
Pipe Underdrains For Structures 4"	FOOT	-	254	254

\*\* All reinforcement bars in the superstructure and approaches shall be textured epoxy coated reinforcement bars. See Special Provisions

**INDEX OF SHEETS**

- S1-01 General Plan and Elevation
- S1-02 General Notes, Index of Sheets, TBOM & Misc. Details
- S1-03 Existing Structure Removal
- S1-04 Substructure Layout
- S1-05 Stage I Construction
- S1-06 Stage II Construction
- S1-07 Temporary Concrete Barrier For Stage Construction
- S1-08 Top of Slab Elevations Layout
- S1-09 Top of Slab Elevations (Sheet 1 of 3)
- S1-10 Top of Slab Elevations (Sheet 2 of 3)
- S1-11 Top of Slab Elevations (Sheet 3 of 3)
- S1-12 Top of South Approach Pavement Elevations
- S1-13 Top of North Approach Pavement Elevations
- S1-14 Deck Plan
- S1-15 Deck Cross Section
- S1-16 Abutment Diaphragm Elevations and Sections
- S1-17 Pier Diaphragm Elevations and Sections
- S1-18 Type F Concrete Parapet Elevations
- S1-19 Deck Details, Bar List and Bill of Material
- S1-20 South Approach Slab
- S1-21 South Approach Slab Sections and Details
- S1-22 North Approach Slab
- S1-23 North Approach Slab Sections and Details
- S1-24 Framing Plan
- S1-25 42" PPC I-Beam Spans 1 & 3
- S1-26 42" PPC I-Beam Details Spans 1 & 3
- S1-27 42" PPC I-Beam Span 2
- S1-28 42" PPC I-Beam Details Span 2
- S1-29 South Abutment - Stage I Construction
- S1-30 South Abutment - Stage II Construction
- S1-31 North Abutment - Stage I Construction
- S1-32 North Abutment - Stage II Construction
- S1-33 Pier 1 Plan and Elevation
- S1-34 Pier 1 Sections, Details and Bill of Material
- S1-35 Pier 2 Plan and Elevation
- S1-36 Pier 2 Sections, Details and Bill of Material
- S1-37 HP Pile Details
- S1-38 Bar Splicer Assembly and Mechanical Splicer Details
- S1-39 Soil Boring Logs - I
- S1-40 Soil Boring Logs - II
- S1-41 Soil Boring Logs - III



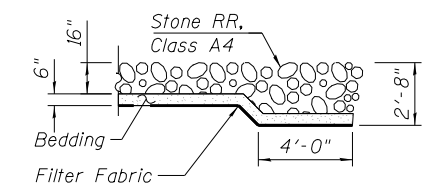
**SECTION THRU INTEGRAL ABUTMENT**

(Horiz. dim. @ Rt. L's)

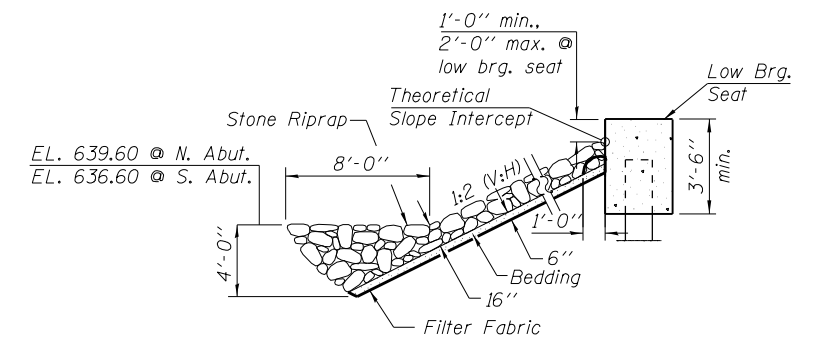
\*Included in the cost of Pipe Underdrains for Structures. (See Special Provisions)

Note:

All drainage system components shall extend to 2'-0" from the end of each wingwall except an outlet pipe shall extend until intersecting with the side slopes. The pipes shall drain into concrete headwalls. (See Article 601.05 of the Standard Specifications and Highway Standard 60110).



**SECTION A-A**



**STONE RIPRAP ANCHOR DETAIL**

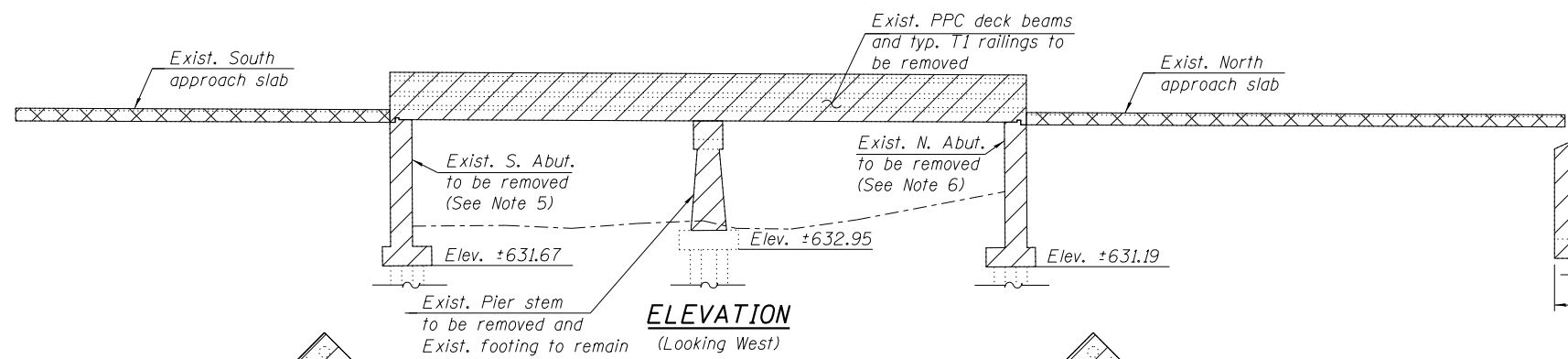
(At Abutments)

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DRAWN - WM, LAB	REVISED -
CHECKED - MI, MAI	REVISED -
DATE - 03/22/2016	REVISED -

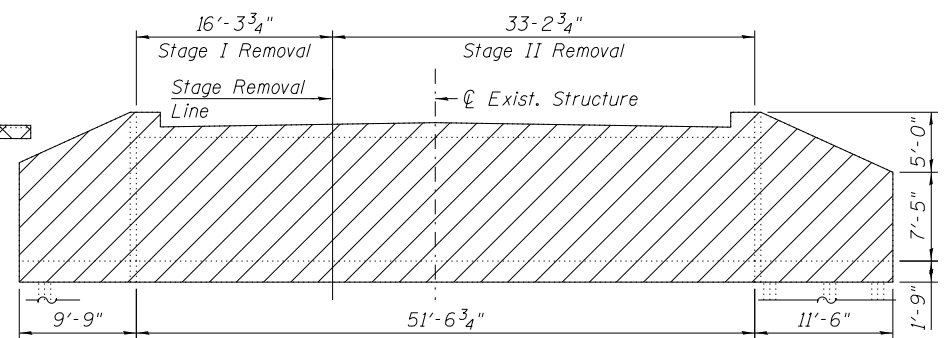
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DRAWN - WM, LAB	REVISED -
CHECKED - MI, MAI	REVISED -
DATE - 03/22/2016	REVISED -

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DRAWN - WM, LAB	REVISED -
CHECKED - MI, MAI	REVISED -
DATE - 03/22/2016	REVISED -

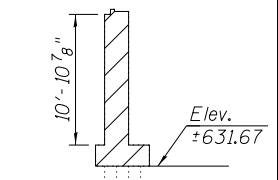
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
577	C-1-B	WILL/COOK	186	91
CONTRACT NO. 60H21				
ILLINOIS FED. AID PROJECT				



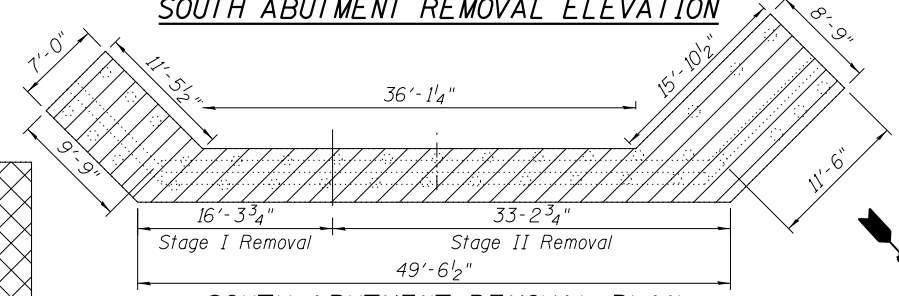
**ELEVATION**  
(Looking West)



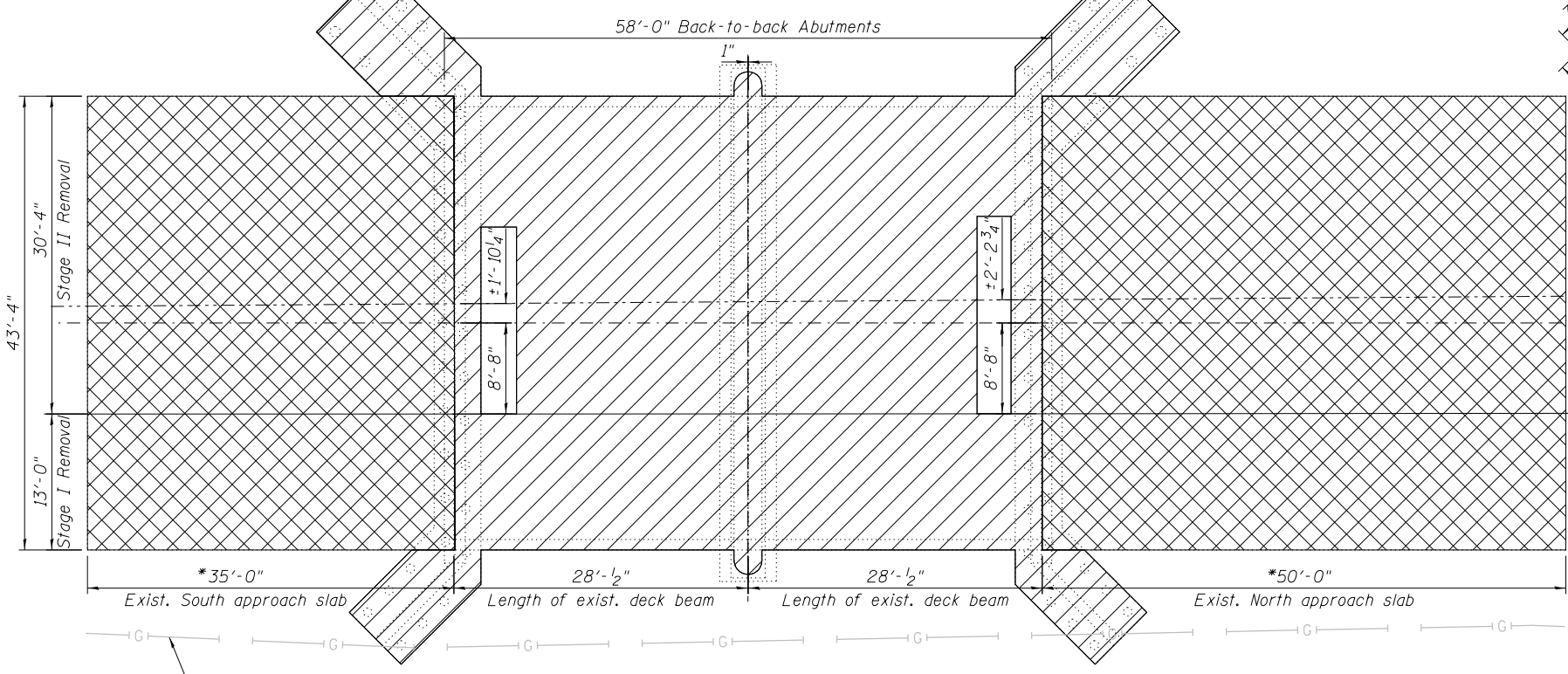
**SOUTH ABUTMENT REMOVAL ELEVATION**



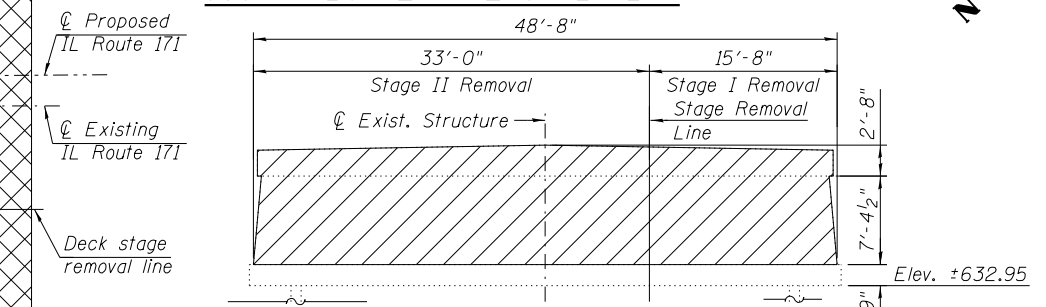
**SIDE ELEVATION SOUTH ABUTMENT**  
(At CL)



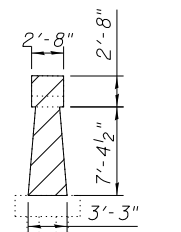
**SOUTH ABUTMENT REMOVAL PLAN**



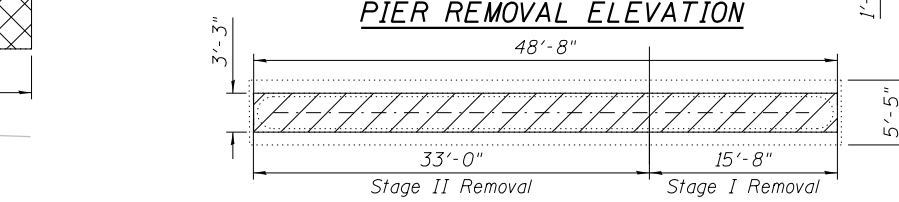
**REMOVAL PLAN**



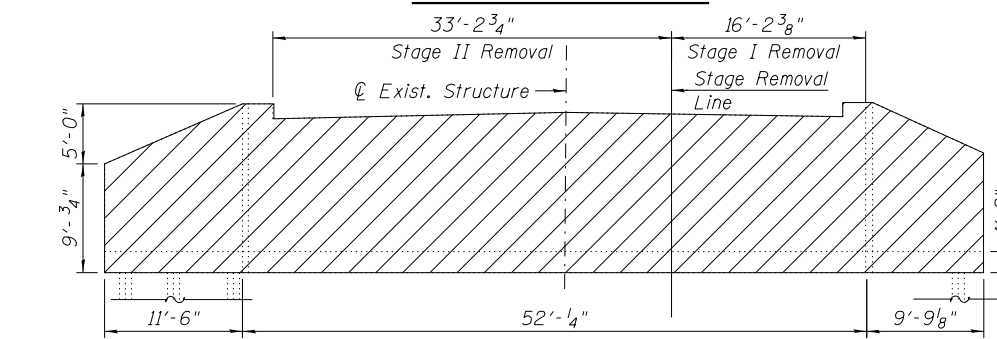
**PIER REMOVAL ELEVATION**



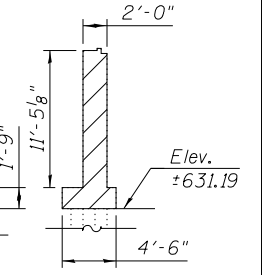
**SIDE ELEVATION PIER**  
(At CL)



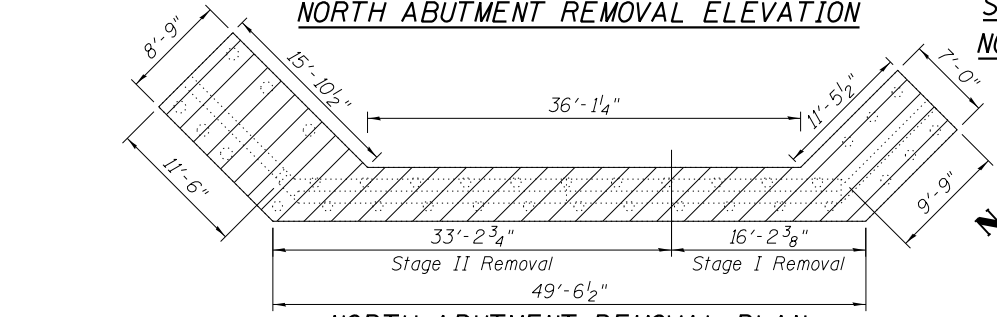
**PIER REMOVAL PLAN**



**NORTH ABUTMENT REMOVAL ELEVATION**



**SIDE ELEVATION NORTH ABUTMENT**  
(At CL)



**NORTH ABUTMENT REMOVAL PLAN**

**NOTES:**

- Dimensions shown have been taken from historical design drawings and may not represent as built conditions. The Contractor must verify all dimensions in the field. Variation in the field dimension shall not warrant additional compensation for Removal of Existing Structures. See Special Provision.
- For existing approach slabs removal quantities, see Roadway Plans.
- Existing utilities in conflict with new construction shall be abandoned or relocated according to directions given on the roadway plans.
- Cost of removing existing Type T1 railing and bituminous overlay with waterproofing membrane system is included in the Cost of Removal of Existing Structures.
- The removal of the existing South Abutment footing is limited to the portion of the footing interfering with the stone riprap.
- The removal of the existing North Abutment footing is limited to the portion of the footing interfering with the cofferdam construction.

**BILL OF MATERIAL**

ITEM	UNIT	TOTAL
Removal of Existing Structures	EACH	1

**LEGEND**

- Removal area
- Approach slab removal (See Note 2)

**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

**EXISTING STRUCTURE REMOVAL**  
**STRUCTURE NO. 099-0537**

SHEET NO. S1-03 OF 41 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
577	C-1-B	WILL/COOK	186	92

CONTRACT NO. 60H21  
ILLINOIS FED. AID PROJECT

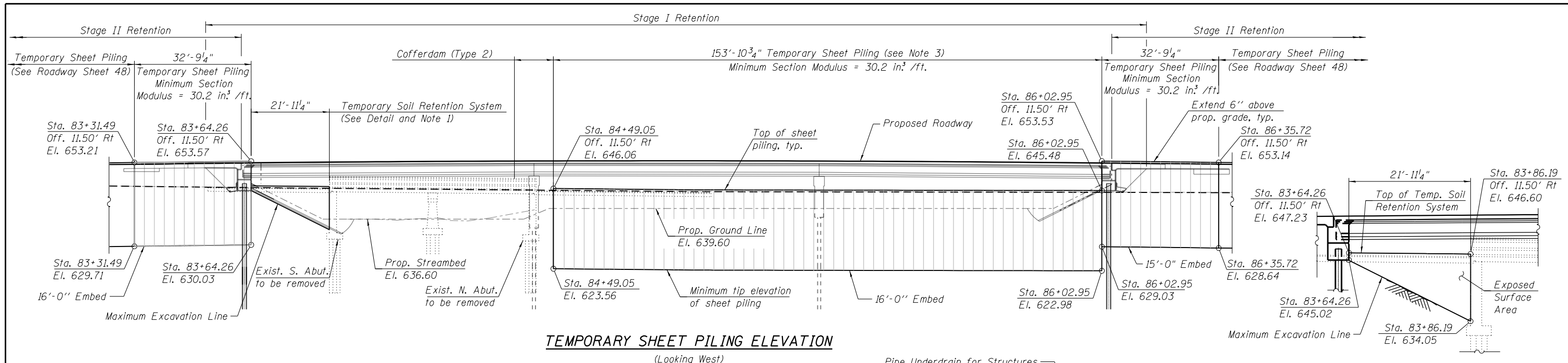
**HBM**  
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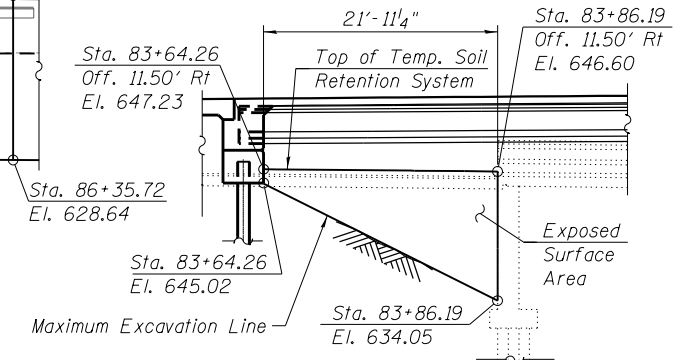
DESIGNED - WM, LAB	REVISED -
DRAWN - WM, LAB	REVISED -
CHECKED - MI, MAI	REVISED -
DATE - 03/18/2016	REVISED -

PLOT DATE = 3/17/2016

3/17/2016



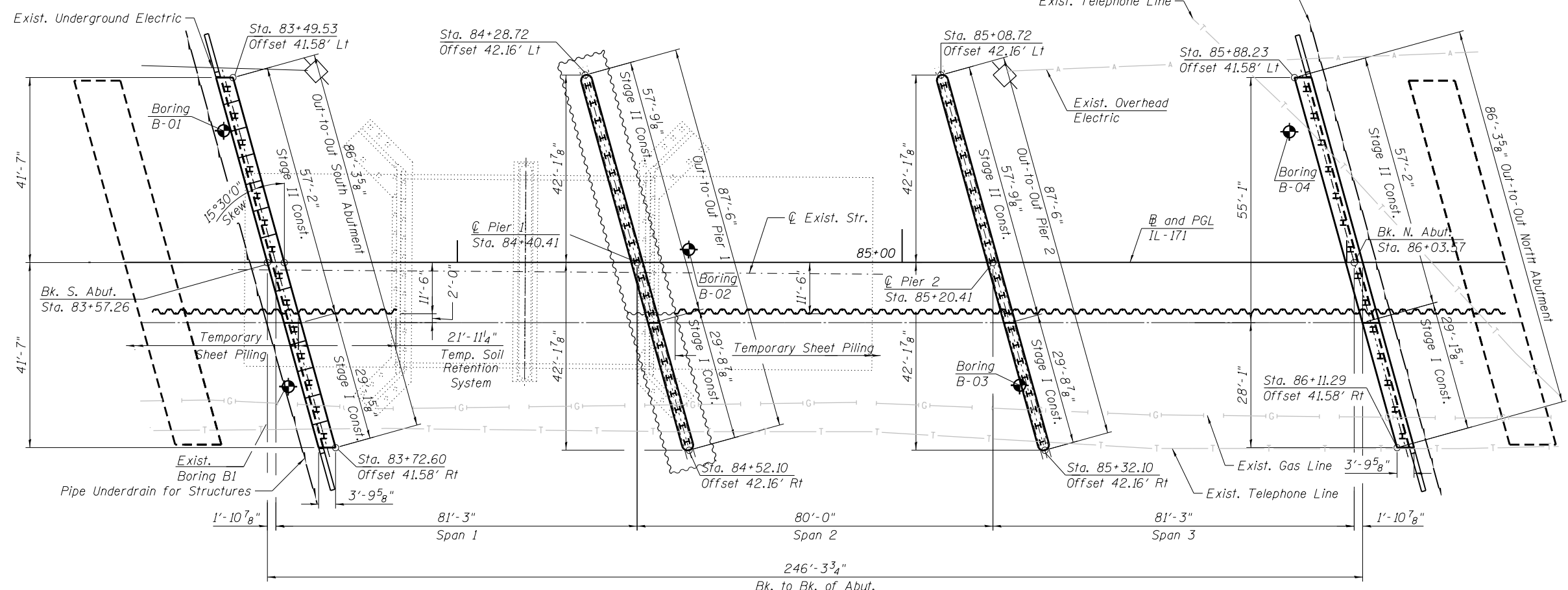
**TEMPORARY SHEET PILING ELEVATION**  
(Looking West)



**TEMPORARY SOIL RETENTION SYSTEM DETAIL**

**NOTES:**

- Temporary Soil Retention System:**
1. A cantilevered sheet piling design does not appear feasible and additional members or other retention systems may be necessary. The Contractor shall submit a temporary soil retention system design including plan details and calculations for review and acceptance by the Engineer.
  2. The contractor shall connect the first sheet of the temporary soil retention system to existing south abutment wall to ensure stability of sheets driven to the top of the existing footing. This connection shall be reviewed and accepted by the engineer and included in the cost for Temporary Soil Retention System.
- Temporary Sheet Piling:**
3. The contractor shall join the proposed temporary sheet piling to the proposed Cofferdam (Type 2) to ensure stability. This connection shall be reviewed and accepted by the Engineer and included in the cost of Cofferdam (Type 2) (Location - 1).
  4. If the contractor chooses to alter the temporary cantilevered sheet piling design requirements shown on the plans, a design submittal including plan details and calculations will be required for review and acceptance by the Engineer.
  5. Hard driving may be encountered during the sheet piling installation. The Contractor shall provide the appropriate driving equipment for the soil conditions indicated on the boring logs.
  6. There are existing utilities in the areas where proposed sheet piling will be installed. Contractor to locate all existing utilities per requirements of the special provisions. For overhead utilities and all other known utilities. See Roadway Plans, Drainage Plan & Profile.
  7. Cost of removal of portions of existing timber piles or pile extraction necessary to construct the proposed Cofferdam (Type 2) shall not be paid for separately, but shall be included in the cost of Cofferdam (Type 2) (Location - 1).



**FOOTING LAYOUT**

**BILL OF MATERIAL**

ITEM	UNIT	TOTAL
Cofferdam Excavation	CU YD	353
Cofferdam (Type 2) (Location - 1)	EACH	1
Seal Coat Concrete	CU YD	204.3
Temporary Sheet Piling	SQ FT	5,036
Temporary Soil Retention System	SQ FT	162

**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

**SUBSTRUCTURE LAYOUT**  
**STRUCTURE NO. 099-0537**

SHEET NO. S1-04 OF 41 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
577	C-1-B	WILL/COOK	186	93

CONTRACT NO. 60H21  
ILLINOIS FED. AID PROJECT

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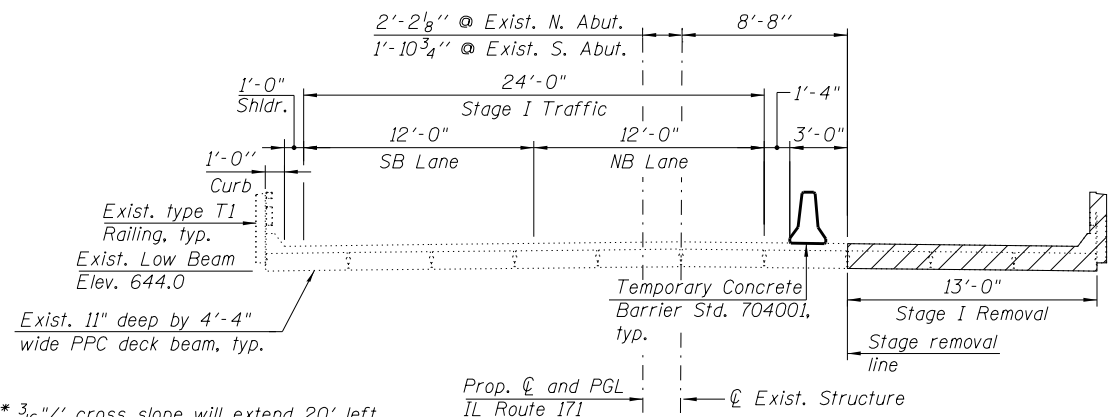
4415 WEST HARRISON ST.  
SUITE 231  
HILLSIDE, IL 60162  
PHONE: (708) 236-0900  
FAX: (708) 236-0901

DESIGNED - LAB, WM  
DRAWN - WM, LAB  
CHECKED - MI, MAI  
DATE - 03/18/2016

REVISED -  
REVISED -  
REVISED -  
REVISED -

PLOT DATE = 3/17/2016

3/17/2016



\*  $\frac{3}{16}$ "/' cross slope will extend 20' left and right of prop.  $\phi$ . The cross slope of remaining portion of the deck will be  $\frac{1}{4}$ "/'.

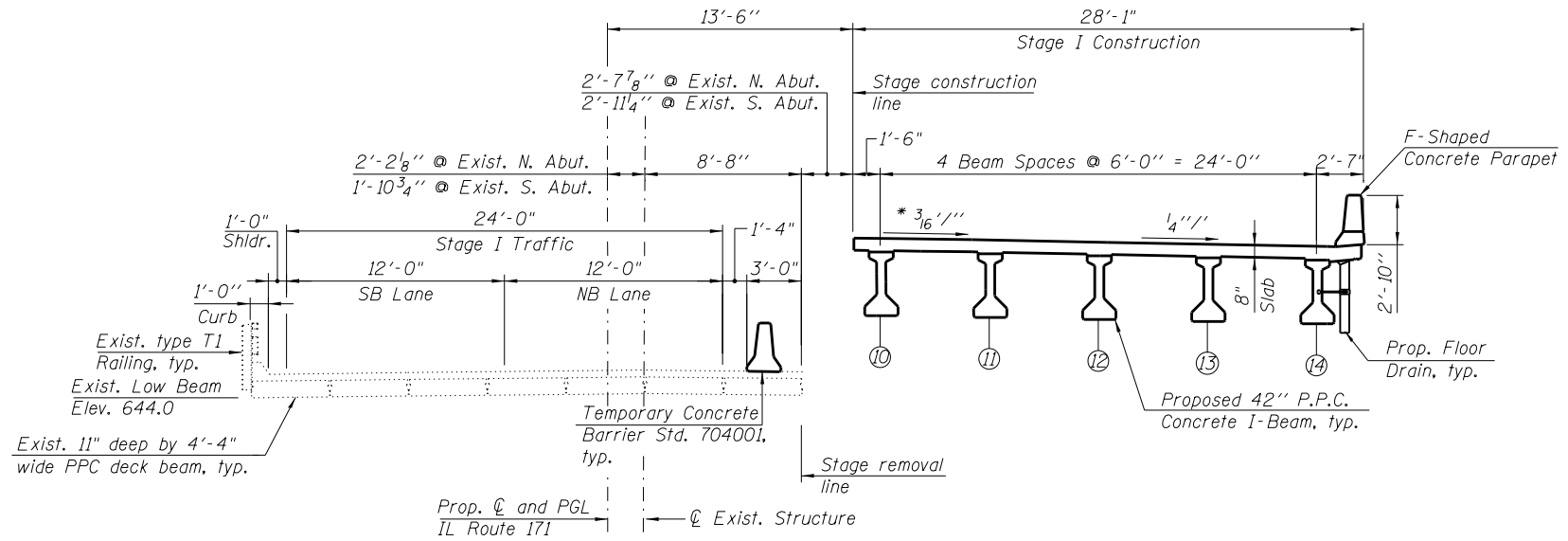
**STAGE I REMOVAL**  
(Looking Up-station)

**STAGE I REMOVAL**

1. Install temporary concrete barrier as shown to locate traffic lane on the west side of the existing structure.
2. Install Temporary Sheet Piling and Temporary Soil Retention System along the stage construction line.
3. Remove existing soil to Elev. 639.60 from R.O.W. to R.O.W. and from toe of embankment of North Abutment to the toe of embankment of South Abutment within limits of Stage I Construction unless shown otherwise.
4. Remove existing approach slabs within limits of Stage I Removal.
5. Remove the existing structure including the superstructure on the east side of the stage removal line. See Sheet S1-03 for limits of removal.
6. The existing 1"  $\phi$  rod shall be terminated/cut at the stage removal line. A new nut with a  $3\frac{1}{2}$ "x $3\frac{1}{2}$ "x $\frac{1}{2}$ " washer  $\mathbb{R}$  shall be installed and tightened to a snug fit. If the existing threads of the rod are damaged or corroded, then use  $\frac{1}{4}$ " welds at these locations.

**STAGE I CONSTRUCTION**

- The following construction items will be performed within the limits of Stage I Construction:
1. Drive piles for abutments and piers as shown in footing layout.
  2. Provide approved means and methods to construct portions of pier 1 in dry conditions for the Stage I Construction.
  3. Construct abutments and piers.
  4. Erect Beams 10 thru 14.
  5. Construct reinforced concrete deck with floor drains and parapet.
  6. Construct bridge approach pavements.
  7. Perform bridge deck grooving for the bridge deck and bridge approach pavement.
  8. Apply protective coat for the bridge deck, bridge approach pavement and top and inside faces of parapets.
  9. Paint pavement markings on the top of deck and bridge approach pavement.



**STAGE I CONSTRUCTION**  
(Looking Up-station)

**NOTES:**

1. For existing Superstructure and Substructure removal details, see Sheet S1-03.
2. It shall be the Contractor's responsibility to verify all dimensions in the field and make necessary approved adjustments prior to ordering materials.
3. The concrete used in Stage I construction of the deck shall meet the material and mix design requirements as stated in the special provision "Internally Curing Concrete with Lightweight Aggregate for Bridge Deck (BMPP)". This special provision only applies to the concrete used for the deck in Stage I.

**LEGEND**

Indicates limits of Removal of Existing Structures.

3/17/2016

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RESEARCH & TESTING

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DRAWN - WM, LAB	REVISED -
CHECKED - MI, MAI	REVISED -
DATE - 03/18/2016	REVISED -

**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

**STAGE I CONSTRUCTION**  
**STRUCTURE NO. 099-0537**

SHEET NO. S1-05 OF 41 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
577	C-1-B	WILL/COOK	186	94
CONTRACT NO. 60H21				

ILLINOIS FED. AID PROJECT

**STAGE II REMOVAL**

1. Install temporary concrete barrier as shown to locate traffic lane on the Stage I Constructed portion of the bridge.
2. Remove existing soil to Elev. 639.60 from R.O.W. to R.O.W. and from toe of embankment of North Abutment to the toe of embankment of South Abutment within limits of Stage II Construction unless shown otherwise.
3. Remove existing approach slabs within limits of Stage II Removal.
4. Remove the existing structure on the west side of the stage removal line. See Sheet S1-03 for limits of removal.

**STAGE II CONSTRUCTION**

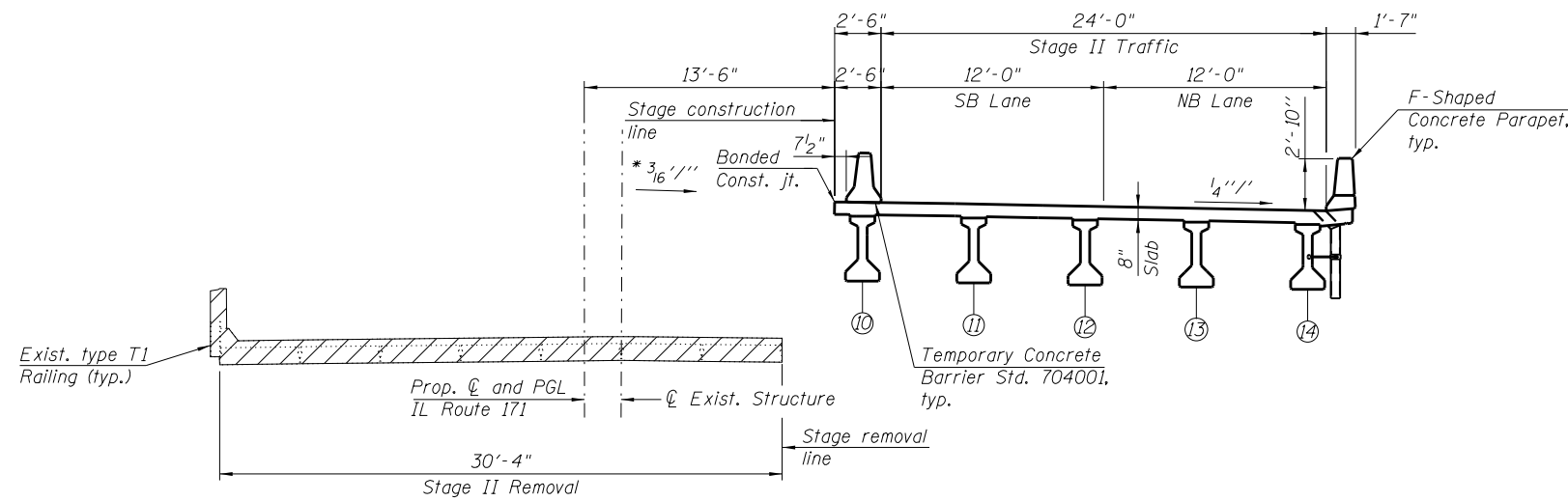
The following construction items will be performed within the limits of Stage II Construction:

1. Drive piles for abutments and piers as shown in footing layout.
2. Provide approved means and methods to construct portions of pier 1 in dry conditions for the Stage I Construction.
3. Construct abutments and piers.
4. Erect Beams 1 thru 9.
5. Construct reinforced concrete deck with floors drains and parapet.
6. Construct bridge approach pavements.
7. Perform bridge deck grooving for the bridge deck and bridge approach pavement.
8. Apply protective coat for the bridge deck, bridge approach pavement and top and inside faces of parapets.
9. Paint pavement markings on the top of deck and bridge approach pavement.

**NOTES:**

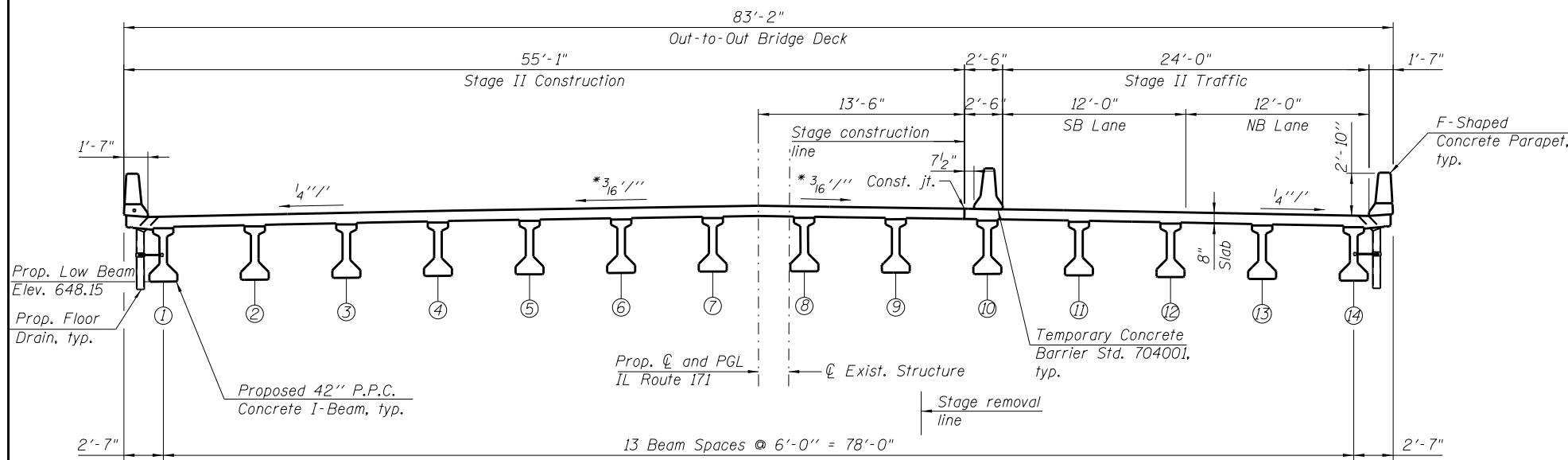
1. For existing Superstructure and Substructure removal details, see Sheet S1-03.

\* $\frac{3}{16}$ " cross slope will extend 20' left and right of prop.  $\varnothing$ . The cross slope of remaining portion of the deck will be  $\frac{1}{4}$ "'.



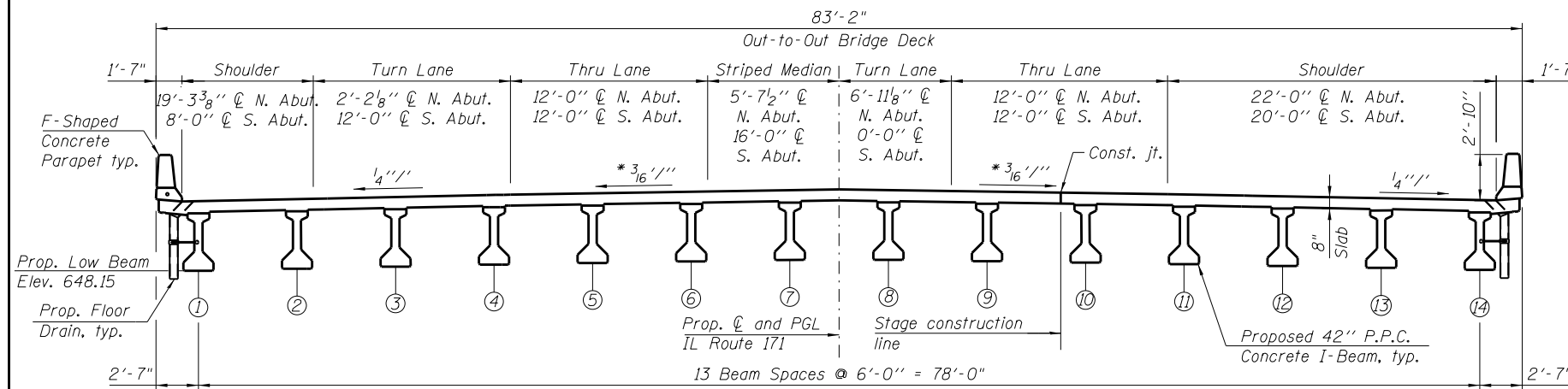
**STAGE II REMOVAL**

(Looking Up-station)



**STAGE II CONSTRUCTION**

(Looking Up-station)



**TYPICAL BRIDGE SECTION**

(Looking Up-station)

**LEGEND**

Indicates limits of Removal of Existing Structures.

3/17/2016

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DRAWN - WM, LAB	REVISSED -
CHECKED - MI, MAI	REVISSED -
DATE - 03/18/2016	REVISSED -

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DATE - 03/18/2016	REVISSED -

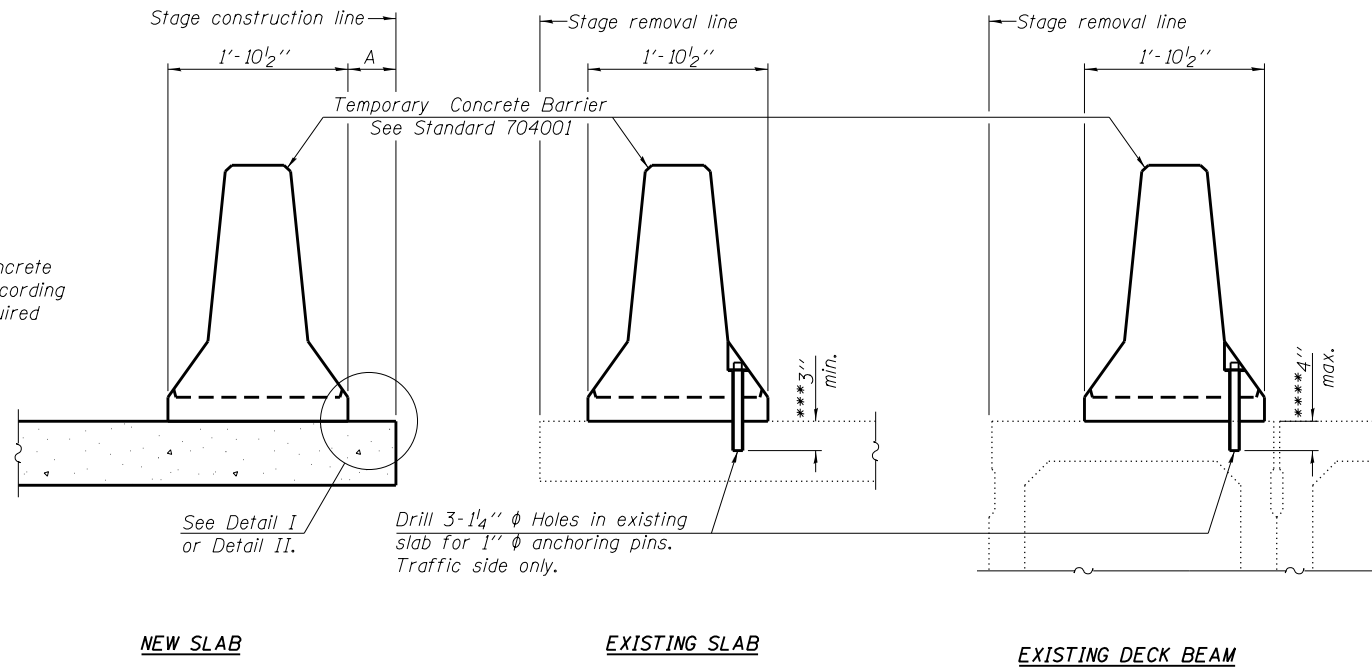
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**STAGE II CONSTRUCTION  
STRUCTURE NO. 099-0537**

SHEET NO. S1-06 OF 41 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
577	C-1-B	WILL/COOK	186	95
CONTRACT NO. 60H21				
ILLINOIS FED. AID PROJECT				

When "A" is 3'-1" or less, the temporary concrete barrier shall be anchored to the new slab according to Detail I or Detail II. No anchorage is required when "A" is greater than 3'-1".



**SECTIONS THRU SLAB OR DECK BEAM**

**NOTES**

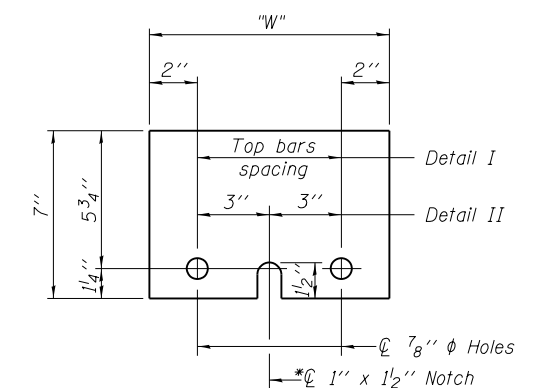
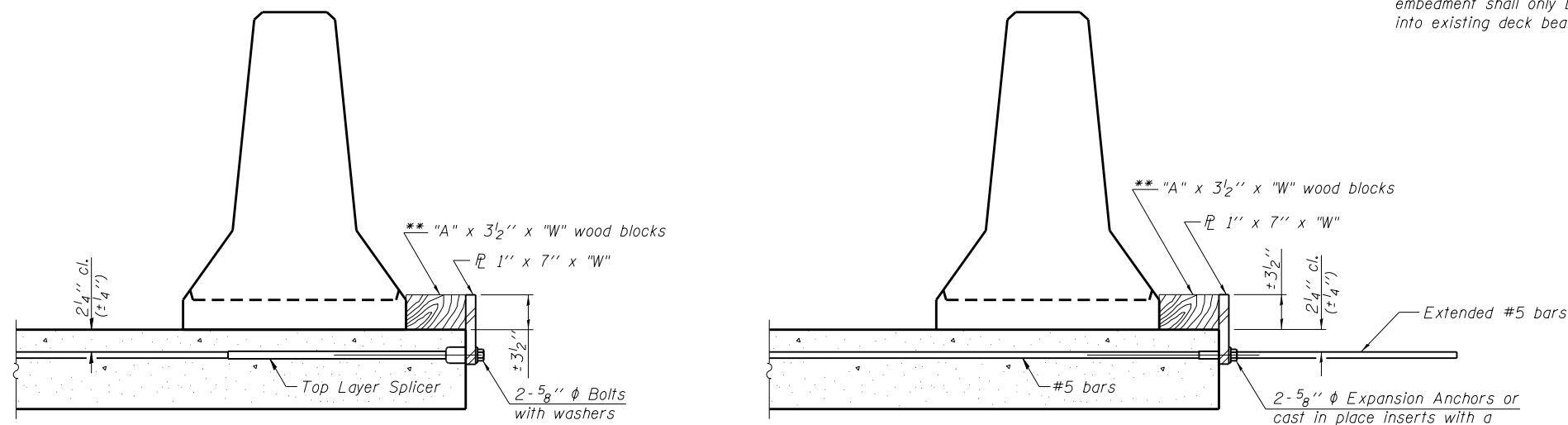
Detail I - With Bar Splicer or Couplers:  
Connect one (1) 1" x 7" x "W" steel PL to the top layer of couplers with 2-5/8" φ bolts screwed to coupler at approximate C of each barrier panel.

Detail II - With Extended Reinforcement Bars:  
Connect one (1) 1" x 7" x "W" steel PL to the concrete slab or concrete wearing surface with 2-5/8" φ Expansion Anchors or cast in place inserts spaced between the top layer of reinforcement at approximate C of each barrier panel.

Cost of retainer assembly is included with Temporary Concrete Barrier. The 1" x 7" x "W" plate shall not be removed until stage II construction forms and all reinforcement bars are in place and the concrete is ready to be placed.

\*\*\* Dimension shown is minimum required embedment into concrete.  
If hot-mix asphalt wearing surface is present, minimum embedment shall be in addition to wearing surface depth.

\*\*\*\* If existing deck beam is to remain in place after stage construction, embedment shall only be into wearing surface and not into existing deck beam concrete.



**STEEL RETAINER PL 1" x 7" x "W"**

\* Required only with Detail II

**RETAINER ASSEMBLY**

\*\* Wood blocks may be omitted when required to provide minimum stage traffic lane width. When the wood blocks are omitted, the concrete barrier shall be in direct contact with the steel retainer plate.

R-27 1-12-15

3/17/2016

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REVISED -  
REVISED -  
REVISED -  
REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

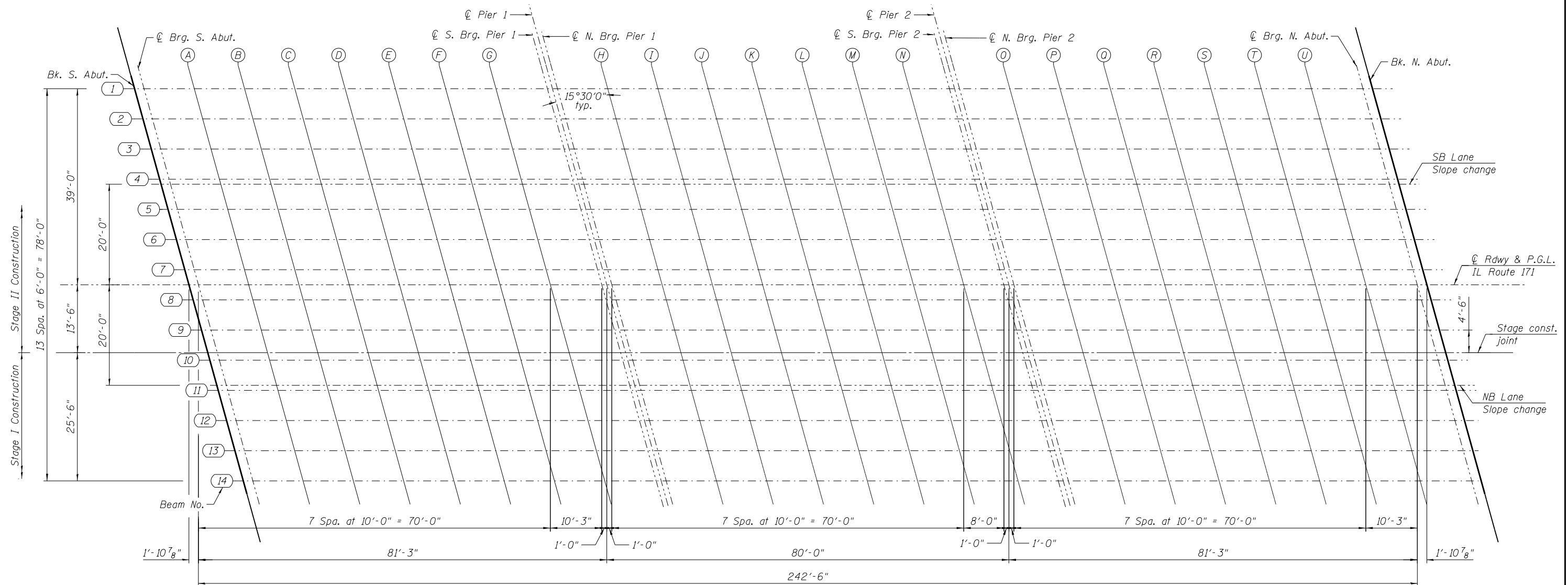
**TEMPORARY CONCRETE BARRIER FOR STAGE CONSTRUCTION  
STRUCTURE NO. 099-0537**

SHEET NO. S1-07 OF 41 SHEETS

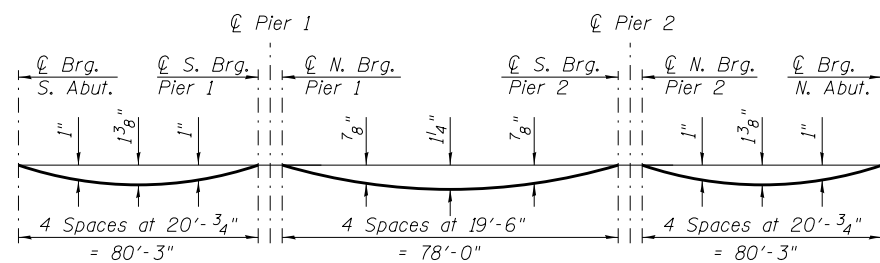
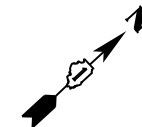
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
577	C-1-B	WILL/COOK	186	96
CONTRACT NO. 60H21				

ILLINOIS FED. AID PROJECT



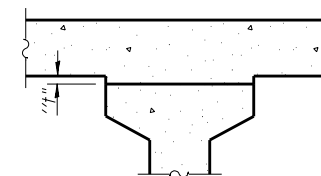


**ELEVATION LOCATION PLAN**

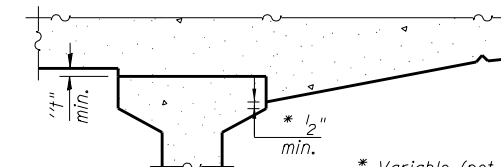


**DEAD LOAD DEFLECTION DIAGRAM**  
(Includes weight of concrete, excluding beams).

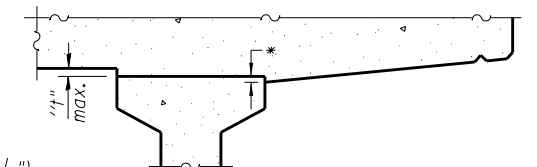
Note:  
The above deflections are not to be used in the field if the engineer is working from the grade elevations adjusted for dead load deflections as on Sheets S1-09 thru S1-11.



**INTERIOR BEAMS**



At Minimum Fillet



At Maximum Fillet

**FILLET HEIGHTS**

\* Variable (not less than 1/2")

To determine "t": After all precast prestressed beams have been erected, elevations of the top flanges of the beams shall be taken at intervals shown on sheets S1-09 thru S1-11. These elevations subtracted from the "Theoretical Grade Elevations Adjusted for Dead Load Deflections" shown on sheets S1-09 thru S1-11, minus slab thickness, equals the fillet heights "t" above top flanges of beams.

3/17/2016

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**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**TOP OF SLAB ELEVATIONS LAYOUT  
STRUCTURE NO. 099-0537**

SHEET NO. S1-08 OF 41 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
577	C-1-B	WILL/COOK	186	97
CONTRACT NO. 60H21				

ILLINOIS FED. AID PROJECT

**BEAM 1**

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflections
BK. S. ABUT.	83+46.45	-39.00'	652.38	652.38
☉ BRG. S. ABUT.	83+48.35	-39.00'	652.40	652.40
A	83+58.35	-39.00'	652.51	652.55
B	83+68.35	-39.00'	652.61	652.69
C	83+78.35	-39.00'	652.70	652.80
D	83+88.35	-39.00'	652.78	652.90
E	83+98.35	-39.00'	652.86	652.96
F	84+08.35	-39.00'	652.92	653.00
G	84+18.35	-39.00'	652.98	653.03
☉ S. BRG. PIER 1	84+28.60	-39.00'	653.03	653.03
☉ PIER 1	84+29.60	-39.00'	653.04	653.04
☉ N. BRG. PIER 1	84+30.60	-39.00'	653.04	653.04
H	84+40.60	-39.00'	653.08	653.12
I	84+50.60	-39.00'	653.11	653.18
J	84+60.60	-39.00'	653.13	653.22
K	84+70.60	-39.00'	653.14	653.24
L	84+80.60	-39.00'	653.15	653.24
M	84+90.60	-39.00'	653.14	653.21
N	85+00.60	-39.00'	653.13	653.16
☉ S. BRG. PIER 2	85+08.60	-39.00'	653.12	653.12
☉ PIER 2	85+09.60	-39.00'	653.11	653.11
☉ N. BRG. PIER 2	85+10.60	-39.00'	653.11	653.11
O	85+20.60	-39.00'	653.08	653.13
P	85+30.60	-39.00'	653.05	653.10
Q	85+40.60	-39.00'	653.00	653.10
R	85+50.60	-39.00'	652.95	653.06
S	85+60.60	-39.00'	652.88	652.99
T	85+70.60	-39.00'	652.81	652.89
U	85+80.60	-39.00'	652.73	652.78
☉ BRG. N. ABUT.	85+90.85	-39.00'	652.64	652.64
BK. N. ABUT.	85+92.75	-39.00'	652.62	652.62

**BEAM 2**

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflections
BK. S. ABUT.	83+48.11	-33.00'	652.52	652.52
☉ BRG. S. ABUT.	83+50.01	-33.00'	652.54	652.54
A	83+60.01	-33.00'	652.65	652.69
B	83+70.01	-33.00'	652.75	652.83
C	83+80.01	-33.00'	652.84	652.94
D	83+90.01	-33.00'	652.92	653.03
E	84+00.01	-33.00'	652.99	653.09
F	84+10.01	-33.00'	653.05	653.15
G	84+20.01	-33.00'	653.11	653.15
☉ S. BRG. PIER 1	84+30.26	-33.00'	653.16	653.16
☉ PIER 1	84+31.26	-33.00'	653.16	653.16
☉ N. BRG. PIER 1	84+32.26	-33.00'	653.17	653.17
H	84+42.26	-33.00'	653.20	653.24
I	84+52.26	-33.00'	653.23	653.30
J	84+62.26	-33.00'	653.25	653.35
K	84+72.26	-33.00'	653.26	653.36
L	84+82.26	-33.00'	653.27	653.36
M	84+92.26	-33.00'	653.26	653.26
N	85+02.26	-33.00'	653.25	653.28
☉ S. BRG. PIER 2	85+10.26	-33.00'	653.23	653.23
☉ PIER 2	85+11.26	-33.00'	653.23	653.23
☉ N. BRG. PIER 2	85+12.26	-33.00'	653.23	653.23
O	85+22.26	-33.00'	653.20	653.24
P	85+32.26	-33.00'	653.16	653.24
Q	85+42.26	-33.00'	653.11	653.21
R	85+52.26	-33.00'	653.06	653.17
S	85+62.26	-33.00'	652.99	653.10
T	85+72.26	-33.00'	652.92	653.00
U	85+82.26	-33.00'	652.84	652.88
☉ BRG. N. ABUT.	85+92.51	-33.00'	652.75	652.75
BK. N. ABUT.	85+94.41	-33.00'	652.73	652.73

**BEAM 3**

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflections
BK. S. ABUT.	83+49.77	-27.00'	652.66	652.66
☉ BRG. S. ABUT.	83+51.68	-27.00'	652.68	652.68
A	83+61.68	-27.00'	652.79	652.83
B	83+71.68	-27.00'	652.88	652.96
C	83+81.68	-27.00'	652.97	653.07
D	83+91.68	-27.00'	653.05	653.16
E	84+01.68	-27.00'	653.12	653.22
F	84+11.68	-27.00'	653.18	653.26
G	84+21.68	-27.00'	653.24	653.28
☉ S. BRG. PIER 1	84+31.93	-27.00'	653.29	653.29
☉ PIER 1	84+32.93	-27.00'	653.29	653.29
☉ N. BRG. PIER 1	84+33.93	-27.00'	653.29	653.29
H	84+43.93	-27.00'	653.33	653.37
I	84+53.93	-27.00'	653.36	653.43
J	84+63.93	-27.00'	653.38	653.47
K	84+73.93	-27.00'	653.39	653.49
L	84+83.93	-27.00'	653.39	653.48
M	84+93.93	-27.00'	653.38	653.45
N	85+03.93	-27.00'	653.37	653.40
☉ S. BRG. PIER 2	85+11.93	-27.00'	653.35	653.35
☉ PIER 2	85+12.93	-27.00'	653.35	653.35
☉ N. BRG. PIER 2	85+13.93	-27.00'	653.34	653.34
O	85+23.93	-27.00'	653.31	653.35
P	85+33.93	-27.00'	653.27	653.35
Q	85+43.93	-27.00'	653.22	653.32
R	85+53.93	-27.00'	653.17	653.28
S	85+63.93	-27.00'	653.10	653.20
T	85+73.93	-27.00'	653.03	653.11
U	85+83.93	-27.00'	652.94	652.99
☉ BRG. N. ABUT.	85+94.18	-27.00'	652.85	652.85
BK. N. ABUT.	85+96.08	-27.00'	652.83	652.83

**BEAM 4**

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflections
BK. S. ABUT.	83+51.44	-21.00'	652.80	652.80
☉ BRG. S. ABUT.	83+53.34	-21.00'	652.82	652.82
A	83+63.34	-21.00'	652.92	652.96
B	83+73.34	-21.00'	653.02	653.10
C	83+83.34	-21.00'	653.10	653.21
D	83+93.34	-21.00'	653.18	653.29
E	84+03.34	-21.00'	653.25	653.36
F	84+13.34	-21.00'	653.31	653.39
G	84+23.34	-21.00'	653.37	653.41
☉ S. BRG. PIER 1	84+33.59	-21.00'	653.41	653.41
☉ PIER 1	84+34.59	-21.00'	653.42	653.42
☉ N. BRG. PIER 1	84+35.59	-21.00'	653.42	653.42
H	84+45.59	-21.00'	653.45	653.49
I	84+55.59	-21.00'	653.48	653.55
J	84+65.59	-21.00'	653.50	653.59
K	84+75.59	-21.00'	653.51	653.61
L	84+85.59	-21.00'	653.51	653.60
M	84+95.59	-21.00'	653.50	653.57
N	85+05.59	-21.00'	653.48	653.52
☉ S. BRG. PIER 2	85+13.59	-21.00'	653.46	653.46
☉ PIER 2	85+14.59	-21.00'	653.46	653.46
☉ N. BRG. PIER 2	85+15.59	-21.00'	653.46	653.46
O	85+25.59	-21.00'	653.43	653.47
P	85+35.59	-21.00'	653.38	653.46
Q	85+45.59	-21.00'	653.33	653.44
R	85+55.59	-21.00'	653.28	653.39
S	85+65.59	-21.00'	653.21	653.31
T	85+75.59	-21.00'	653.13	653.21
U	85+85.59	-21.00'	653.05	653.09
☉ BRG. N. ABUT.	85+95.84	-21.00'	652.95	652.95
BK. N. ABUT.	85+97.74	-21.00'	652.94	652.94

**SB LANE SLOPE CHANGE**

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflections
BK. S. ABUT.	83+51.71	-20.00'	652.82	652.82
☉ BRG. S. ABUT.	83+53.62	-20.00'	652.84	652.84
A	83+63.62	-20.00'	652.94	652.99
B	83+73.62	-20.00'	653.04	653.12
C	83+83.62	-20.00'	653.13	653.23
D	83+93.62	-20.00'	653.20	653.32
E	84+03.62	-20.00'	653.27	653.38
F	84+13.62	-20.00'	653.34	653.41
G	84+23.62	-20.00'	653.39	653.43
☉ S. BRG. PIER 1	84+33.87	-20.00'	653.43	653.43
☉ PIER 1	84+34.87	-20.00'	653.44	653.44
☉ N. BRG. PIER 1	84+35.87	-20.00'	653.44	653.44
H	84+45.87	-20.00'	653.48	653.51
I	84+55.87	-20.00'	653.50	653.57
J	84+65.87	-20.00'	653.52	653.61
K	84+75.87	-20.00'	653.53	653.63
L	84+85.87	-20.00'	653.53	653.62
M	84+95.87	-20.00'	653.52	653.59
N	85+05.87	-20.00'	653.50	653.53
☉ S. BRG. PIER 2	85+13.87	-20.00'	653.48	653.48
☉ PIER 2	85+14.87	-20.00'	653.48	653.48
☉ N. BRG. PIER 2	85+15.87	-20.00'	653.48	653.48
O	85+25.87	-20.00'	653.44	653.49
P	85+35.87	-20.00'	653.40	653.48
Q	85+45.87	-20.00'	653.35	653.45
R	85+55.87	-20.00'	653.29	653.40
S	85+65.87	-20.00'	653.23	653.33
T	85+75.87	-20.00'	653.15	653.23
U	85+85.87	-20.00'	653.07	653.11
☉ BRG. N. ABUT.	85+96.12	-20.00'	652.97	652.97
BK. N. ABUT.	85+98.02	-20.00'	652.95	652.95

**BEAM 5**

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflections
BK. S. ABUT.	83+53.10	-15.00'	652.91	652.91
☉ BRG. S. ABUT.	83+55.00	-15.00'	652.93	652.93
A	83+65.00	-15.00'	653.03	653.08
B	83+75.00	-15.00'	653.13	653.21
C	83+85.00	-15.00'	653.21	653.31
D	83+95.00	-15.00'	653.29	653.40
E	84+05.00	-15.00'	653.36	653.46
F	84+15.00	-15.00'	653.42	653.50
G	84+25.00	-15.00'	653.47	653.51
☉ S. BRG. PIER 1	84+35.25	-15.00'	653.51	653.51
☉ PIER 1	84+36.25	-15.00'	653.52	653.52
☉ N. BRG. PIER 1	84+37.25	-15.00'	653.52	653.52
H	84+47.25	-15.00'	653.55	653.59
I	84+57.25	-15.00'	653.58	653.65
J	84+67.25	-15.00'	653.60	653.69
K	84+77.25	-15.00'	653.60	653.70
L	84+87.25	-15.00'	653.60	653.69
M	84+97.25	-15.00'	653.59	653.66
N	85+07.25	-15.00'	653.57	653.61
☉ S. BRG. PIER 2	85+15.25	-15.00'	653.55	653.55
☉ PIER 2	85+16.25	-15.00'	653.55	653.55
☉ N. BRG. PIER 2	85+17.25	-15.00'	653.55	653.55
O	85+27.25	-15.00'	653.51	653.56
P	85+37.25	-15.00'	653.47	653.55
Q	85+47.25	-15.00'	653.42	653.52
R	85+57.25	-15.00'	653.36	653.47
S	85+67.25	-15.00'	653.29	653.39
T	85+77.25	-15.00'	653.21	653.29
U	85+87.25	-15.00'	653.13	653.17
☉ BRG. N. ABUT.	85+97.50	-15.00'	653.03	653.03
BK. N. ABUT.	85+99.41	-15.00'	653.01	653.01

3/17/2016

**HBM**  
ENGINEERING GROUP, LLC  
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INSPECTION & RATING  
RESEARCH & TESTING  
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DESIGNED - LAB  
DRAWN - LAB  
CHECKED - MI, MAF  
DATE - 03/18/2016  
REVISED -  
REVISED -  
REVISED -  
REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

TOP OF SLAB ELEVATIONS (SHEET 1 OF 3)  
STRUCTURE NO. 099-0537  
SHEET NO. S1-09 OF 41 SHEETS

F.A.P. RTE. 577  
SECTION C-1-B  
COUNTY WILL/COOK  
TOTAL SHEETS 186  
SHEET NO. 98  
CONTRACT NO. 60H21  
ILLINOIS FED. AID PROJECT

**BEAM 6**

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflections
BK. S. ABUT.	83+54.77	-9.00'	653.02	653.02
☒ BRG. S. ABUT.	83+56.67	-9.00'	653.04	653.04
A	83+66.67	-9.00'	653.14	653.18
B	83+76.67	-9.00'	653.23	653.31
C	83+86.67	-9.00'	653.32	653.42
D	83+96.67	-9.00'	653.39	653.50
E	84+06.67	-9.00'	653.46	653.56
F	84+16.67	-9.00'	653.52	653.60
G	84+26.67	-9.00'	653.57	653.61
☒ S. BRG. PIER 1	84+36.92	-9.00'	653.61	653.61
☒ PIER 1	84+37.92	-9.00'	653.61	653.61
☒ N. BRG. PIER 1	84+38.92	-9.00'	653.62	653.62
H	84+48.92	-9.00'	653.65	653.69
I	84+58.92	-9.00'	653.67	653.74
J	84+68.92	-9.00'	653.69	653.78
K	84+78.92	-9.00'	653.69	653.79
L	84+88.92	-9.00'	653.69	653.78
M	84+98.92	-9.00'	653.68	653.75
N	85+08.92	-9.00'	653.66	653.69
☒ S. BRG. PIER 2	85+16.92	-9.00'	653.64	653.64
☒ PIER 2	85+17.92	-9.00'	653.64	653.64
☒ N. BRG. PIER 2	85+18.92	-9.00'	653.63	653.63
O	85+28.92	-9.00'	653.60	653.64
P	85+38.92	-9.00'	653.55	653.63
Q	85+48.92	-9.00'	653.50	653.60
R	85+58.92	-9.00'	653.44	653.55
S	85+68.92	-9.00'	653.37	653.47
T	85+78.92	-9.00'	653.29	653.37
U	85+88.92	-9.00'	653.20	653.25
☒ BRG. N. ABUT.	85+99.17	-9.00'	653.11	653.11
BK. N. ABUT.	86+01.07	-9.00'	653.09	653.09

**BEAM 7**

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflections
BK. S. ABUT.	83+56.43	-3.00'	653.13	653.13
☒ BRG. S. ABUT.	83+58.33	-3.00'	653.15	653.15
A	83+68.33	-3.00'	653.25	653.29
B	83+78.33	-3.00'	653.34	653.42
C	83+88.33	-3.00'	653.42	653.52
D	83+98.33	-3.00'	653.49	653.60
E	84+08.33	-3.00'	653.56	653.66
F	84+18.33	-3.00'	653.62	653.70
G	84+28.33	-3.00'	653.67	653.71
☒ S. BRG. PIER 1	84+38.58	-3.00'	653.71	653.71
☒ PIER 1	84+39.58	-3.00'	653.71	653.71
☒ N. BRG. PIER 1	84+40.58	-3.00'	653.71	653.71
H	84+50.58	-3.00'	653.74	653.78
I	84+60.58	-3.00'	653.77	653.84
J	84+70.58	-3.00'	653.78	653.87
K	84+80.58	-3.00'	653.78	653.88
L	84+90.58	-3.00'	653.78	653.87
M	85+00.58	-3.00'	653.77	653.83
N	85+10.58	-3.00'	653.75	653.78
☒ S. BRG. PIER 2	85+18.58	-3.00'	653.72	653.72
☒ PIER 2	85+19.58	-3.00'	653.72	653.72
☒ N. BRG. PIER 2	85+20.58	-3.00'	653.72	653.72
O	85+30.58	-3.00'	653.68	653.72
P	85+40.58	-3.00'	653.63	653.71
Q	85+50.58	-3.00'	653.58	653.68
R	85+60.58	-3.00'	653.52	653.63
S	85+70.58	-3.00'	653.45	653.55
T	85+80.58	-3.00'	653.37	653.45
U	85+90.58	-3.00'	653.28	653.32
☒ BRG. N. ABUT.	86+00.83	-3.00'	653.18	653.18
BK. N. ABUT.	86+02.73	-3.00'	653.16	653.16

**☒ ROADWAY & P.G. IL ROUTE 171**

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflections
BK. S. ABUT.	83+57.26	0.00'	653.18	653.18
☒ BRG. S. ABUT.	83+59.16	0.00'	653.20	653.20
A	83+69.16	0.00'	653.30	653.34
B	83+79.16	0.00'	653.39	653.47
C	83+89.16	0.00'	653.47	653.57
D	83+99.16	0.00'	653.54	653.65
E	84+09.16	0.00'	653.61	653.71
F	84+19.16	0.00'	653.67	653.75
G	84+29.16	0.00'	653.71	653.76
☒ S. BRG. PIER 1	84+39.41	0.00'	653.75	653.75
☒ PIER 1	84+40.41	0.00'	653.76	653.76
☒ N. BRG. PIER 1	84+41.41	0.00'	653.76	653.76
H	84+51.41	0.00'	653.79	653.83
I	84+61.41	0.00'	653.81	653.88
J	84+71.41	0.00'	653.82	653.92
K	84+81.41	0.00'	653.83	653.93
L	84+91.41	0.00'	653.82	653.91
M	85+01.41	0.00'	653.81	653.88
N	85+11.41	0.00'	653.79	653.82
☒ S. BRG. PIER 2	85+19.41	0.00'	653.77	653.77
☒ PIER 2	85+20.41	0.00'	653.76	653.76
☒ N. BRG. PIER 2	85+21.41	0.00'	653.76	653.76
O	85+31.41	0.00'	653.72	653.77
P	85+41.41	0.00'	653.68	653.75
Q	85+51.41	0.00'	653.62	653.72
R	85+61.41	0.00'	653.56	653.67
S	85+71.41	0.00'	653.49	653.59
T	85+81.41	0.00'	653.40	653.48
U	85+91.41	0.00'	653.32	653.36
☒ BRG. N. ABUT.	86+01.66	0.00'	653.22	653.22
BK. N. ABUT.	86+03.57	0.00'	653.20	653.20

**BEAM 8**

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflections
BK. S. ABUT.	83+58.09	3.00'	653.14	653.14
☒ BRG. S. ABUT.	83+60.00	3.00'	653.16	653.16
A	83+70.00	3.00'	653.26	653.30
B	83+80.00	3.00'	653.35	653.43
C	83+90.00	3.00'	653.43	653.53
D	84+00.00	3.00'	653.50	653.62
E	84+10.00	3.00'	653.57	653.67
F	84+20.00	3.00'	653.63	653.70
G	84+30.00	3.00'	653.67	653.72
☒ S. BRG. PIER 1	84+40.25	3.00'	653.71	653.71
☒ PIER 1	84+41.25	3.00'	653.72	653.72
☒ N. BRG. PIER 1	84+42.25	3.00'	653.72	653.72
H	84+52.25	3.00'	653.75	653.79
I	84+62.25	3.00'	653.77	653.84
J	84+72.25	3.00'	653.78	653.87
K	84+82.25	3.00'	653.78	653.88
L	84+92.25	3.00'	653.78	653.87
M	85+02.25	3.00'	653.76	653.83
N	85+12.25	3.00'	653.74	653.77
☒ S. BRG. PIER 2	85+20.25	3.00'	653.72	653.72
☒ PIER 2	85+21.25	3.00'	653.72	653.72
☒ N. BRG. PIER 2	85+22.25	3.00'	653.71	653.71
O	85+32.25	3.00'	653.67	653.72
P	85+42.25	3.00'	653.63	653.71
Q	85+52.25	3.00'	653.57	653.67
R	85+62.25	3.00'	653.51	653.62
S	85+72.25	3.00'	653.43	653.54
T	85+82.25	3.00'	653.35	653.43
U	85+92.25	3.00'	653.26	653.31
☒ BRG. N. ABUT.	86+02.50	3.00'	653.16	653.16
BK. N. ABUT.	86+04.40	3.00'	653.14	653.14

**BEAM 9**

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflections
BK. S. ABUT.	83+59.76	9.00'	653.07	653.07
☒ BRG. S. ABUT.	83+61.66	9.00'	653.09	653.09
A	83+71.66	9.00'	653.19	653.23
B	83+81.66	9.00'	653.27	653.35
C	83+91.66	9.00'	653.35	653.46
D	84+01.66	9.00'	653.43	653.54
E	84+11.66	9.00'	653.49	653.59
F	84+21.66	9.00'	653.54	653.62
G	84+31.66	9.00'	653.59	653.63
☒ S. BRG. PIER 1	84+41.91	9.00'	653.63	653.63
☒ PIER 1	84+42.91	9.00'	653.63	653.63
☒ N. BRG. PIER 1	84+43.91	9.00'	653.63	653.63
H	84+53.91	9.00'	653.66	653.70
I	84+63.91	9.00'	653.68	653.75
J	84+73.91	9.00'	653.69	653.78
K	84+83.91	9.00'	653.69	653.79
L	84+93.91	9.00'	653.69	653.78
M	85+03.91	9.00'	653.67	653.74
N	85+13.91	9.00'	653.65	653.68
☒ S. BRG. PIER 2	85+21.91	9.00'	653.62	653.62
☒ PIER 2	85+22.91	9.00'	653.62	653.62
☒ N. BRG. PIER 2	85+23.91	9.00'	653.62	653.62
O	85+33.91	9.00'	653.58	653.62
P	85+43.91	9.00'	653.53	653.61
Q	85+53.91	9.00'	653.47	653.57
R	85+63.91	9.00'	653.40	653.52
S	85+73.91	9.00'	653.33	653.43
T	85+83.91	9.00'	653.25	653.33
U	85+93.91	9.00'	653.16	653.20
☒ BRG. N. ABUT.	86+04.16	9.00'	653.06	653.06
BK. N. ABUT.	86+06.06	9.00'	653.04	653.04

**STAGE CONSTRUCTION JOINT**

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflections
BK. S. ABUT.	83+61.01	13.50'	653.02	653.02
☒ BRG. S. ABUT.	83+62.91	13.50'	653.03	653.03
A	83+72.91	13.50'	653.13	653.17
B	83+82.91	13.50'	653.22	653.30
C	83+92.91	13.50'	653.30	653.40
D	84+02.91	13.50'	653.37	653.48
E	84+12.91	13.50'	653.43	653.53
F	84+22.91	13.50'	653.48	653.56
G	84+32.91	13.50'	653.53	653.57
☒ S. BRG. PIER 1	84+43.16	13.50'	653.56	653.56
☒ PIER 1	84+44.16	13.50'	653.57	653.57
☒ N. BRG. PIER 1	84+45.16	13.50'	653.57	653.57
H	84+55.16	13.50'	653.60	653.64
I	84+65.16	13.50'	653.61	653.69
J	84+75.16	13.50'	653.62	653.72
K	84+85.16	13.50'	653.63	653.72
L	84+95.16	13.50'	653.62	653.71
M	85+05.16	13.50'	653.60	653.67
N	85+15.16	13.50'	653.58	653.61
☒ S. BRG. PIER 2	85+23.16	13.50'	653.55	653.55
☒ PIER 2	85+24.16	13.50'	653.55	653.55
☒ N. BRG. PIER 2	85+25.16	13.50'	653.54	653.54
O	85+35.16	13.50'	653.50	653.55
P	85+45.16	13.50'	653.45	653.53
Q	85+55.16	13.50'	653.40	653.50
R	85+65.16	13.50'	653.33	653.44
S	85+75.16	13.50'	653.25	653.36
T	85+85.16	13.50'	653.17	653.25
U	85+95.16	13.50'	653.08	653.12
☒ BRG. N. ABUT.	86+05.41	13.50'	652.98	652.98
BK. N. ABUT.	86+07.31	13.50'	652.96	652.96

3/17/2016

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DESIGNED - LAB	REVISED -
DRAWN - LAB	REVISED -
CHECKED - MI, MAF	REVISED -
DATE - 03/18/2016	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TOP OF SLAB ELEVATIONS (SHEET 2 OF 3)
STRUCTURE NO. 099-0537
SHEET NO. S1-10 OF 41 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
577	C-1-B	WILL/COOK	186	99
CONTRACT NO. 60H21				

ILLINOIS FED. AID PROJECT	
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**BEAM 10**

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflections
BK. S. ABUT.	83+61.42	15.00'	653.00	653.00
☐ BRG. S. ABUT.	83+63.32	15.00'	653.02	653.02
A	83+73.32	15.00'	653.11	653.15
B	83+83.32	15.00'	653.20	653.28
C	83+93.32	15.00'	653.28	653.38
D	84+03.32	15.00'	653.35	653.46
E	84+13.32	15.00'	653.41	653.51
F	84+23.32	15.00'	653.46	653.54
G	84+33.32	15.00'	653.51	653.55
☐ S. BRG. PIER 1	84+43.57	15.00'	653.54	653.54
☐ PIER 1	84+44.57	15.00'	653.55	653.55
☐ N. BRG. PIER 1	84+45.57	15.00'	653.55	653.55
H	84+55.57	15.00'	653.58	653.61
I	84+65.57	15.00'	653.59	653.67
J	84+75.57	15.00'	653.60	653.69
K	84+85.57	15.00'	653.60	653.70
L	84+95.57	15.00'	653.59	653.68
M	85+05.57	15.00'	653.58	653.64
N	85+15.57	15.00'	653.55	653.59
☐ S. BRG. PIER 2	85+23.57	15.00'	653.53	653.53
☐ PIER 2	85+24.57	15.00'	653.52	653.52
☐ N. BRG. PIER 2	85+25.57	15.00'	653.52	653.52
O	85+35.57	15.00'	653.48	653.52
P	85+45.57	15.00'	653.43	653.51
Q	85+55.57	15.00'	653.37	653.47
R	85+65.57	15.00'	653.30	653.41
S	85+75.57	15.00'	653.23	653.33
T	85+85.57	15.00'	653.14	653.22
U	85+95.57	15.00'	653.05	653.10
☐ BRG. N. ABUT.	86+05.82	15.00'	652.95	652.95
BK. N. ABUT.	86+07.73	15.00'	652.93	652.93

**NB LANE SLOPE CHANGE**

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflections
BK. S. ABUT.	83+62.81	20.00'	652.94	652.94
☐ BRG. S. ABUT.	83+64.71	20.00'	652.96	652.96
A	83+74.71	20.00'	653.05	653.09
B	83+84.71	20.00'	653.14	653.21
C	83+94.71	20.00'	653.21	653.31
D	84+04.71	20.00'	653.28	653.39
E	84+14.71	20.00'	653.34	653.44
F	84+24.71	20.00'	653.39	653.47
G	84+34.71	20.00'	653.44	653.48
☐ S. BRG. PIER 1	84+44.96	20.00'	653.47	653.47
☐ PIER 1	84+45.96	20.00'	653.48	653.48
☐ N. BRG. PIER 1	84+46.96	20.00'	653.48	653.48
H	84+56.96	20.00'	653.50	653.54
I	84+66.96	20.00'	653.52	653.59
J	84+76.96	20.00'	653.53	653.62
K	84+86.96	20.00'	653.53	653.63
L	84+96.96	20.00'	653.52	653.61
M	85+06.96	20.00'	653.50	653.57
N	85+16.96	20.00'	653.47	653.51
☐ S. BRG. PIER 2	85+24.96	20.00'	653.45	653.45
☐ PIER 2	85+25.96	20.00'	653.44	653.44
☐ N. BRG. PIER 2	85+26.96	20.00'	653.44	653.44
O	85+36.96	20.00'	653.40	653.44
P	85+46.96	20.00'	653.35	653.42
Q	85+56.96	20.00'	653.29	653.39
R	85+66.96	20.00'	653.22	653.33
S	85+76.96	20.00'	653.14	653.24
T	85+86.96	20.00'	653.06	653.14
U	85+96.96	20.00'	652.96	653.01
☐ BRG. N. ABUT.	86+07.21	20.00'	652.86	652.86
BK. N. ABUT.	86+09.11	20.00'	652.84	652.84

**BEAM 11**

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflections
BK. S. ABUT.	83+63.09	21.00'	652.92	652.92
☐ BRG. S. ABUT.	83+64.99	21.00'	652.94	652.94
A	83+74.99	21.00'	653.03	653.07
B	83+84.99	21.00'	653.12	653.20
C	83+94.99	21.00'	653.19	653.30
D	84+04.99	21.00'	653.26	653.37
E	84+14.99	21.00'	653.32	653.43
F	84+24.99	21.00'	653.37	653.45
G	84+34.99	21.00'	653.42	653.46
☐ S. BRG. PIER 1	84+45.24	21.00'	653.45	653.45
☐ PIER 1	84+46.24	21.00'	653.46	653.46
☐ N. BRG. PIER 1	84+47.24	21.00'	653.46	653.46
H	84+57.24	21.00'	653.48	653.52
I	84+67.24	21.00'	653.50	653.57
J	84+77.24	21.00'	653.51	653.60
K	84+87.24	21.00'	653.51	653.61
L	84+97.24	21.00'	653.50	653.59
M	85+07.24	21.00'	653.48	653.55
N	85+17.24	21.00'	653.45	653.49
☐ S. BRG. PIER 2	85+25.24	21.00'	653.43	653.43
☐ PIER 2	85+26.24	21.00'	653.42	653.42
☐ N. BRG. PIER 2	85+27.24	21.00'	653.42	653.42
O	85+37.24	21.00'	653.38	653.42
P	85+47.24	21.00'	653.32	653.40
Q	85+57.24	21.00'	653.26	653.37
R	85+67.24	21.00'	653.20	653.31
S	85+77.24	21.00'	653.12	653.22
T	85+87.24	21.00'	653.03	653.11
U	85+97.24	21.00'	652.94	652.98
☐ BRG. N. ABUT.	86+07.49	21.00'	652.84	652.84
BK. N. ABUT.	86+09.39	21.00'	652.82	652.82

**BEAM 12**

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflections
BK. S. ABUT.	83+64.75	27.00'	652.82	652.82
☐ BRG. S. ABUT.	83+66.65	27.00'	652.83	652.83
A	83+76.65	27.00'	652.93	652.97
B	83+86.65	27.00'	653.01	653.09
C	83+96.65	27.00'	653.09	653.19
D	84+06.65	27.00'	653.15	653.26
E	84+16.65	27.00'	653.21	653.32
F	84+26.65	27.00'	653.26	653.34
G	84+36.65	27.00'	653.30	653.35
☐ S. BRG. PIER 1	84+46.90	27.00'	653.34	653.34
☐ PIER 1	84+47.90	27.00'	653.34	653.34
☐ N. BRG. PIER 1	84+48.90	27.00'	653.34	653.34
H	84+58.90	27.00'	653.37	653.41
I	84+68.90	27.00'	653.38	653.45
J	84+78.90	27.00'	653.39	653.48
K	84+88.90	27.00'	653.39	653.48
L	84+98.90	27.00'	653.38	653.47
M	85+08.90	27.00'	653.36	653.42
N	85+18.90	27.00'	653.33	653.36
☐ S. BRG. PIER 2	85+26.90	27.00'	653.30	653.30
☐ PIER 2	85+27.90	27.00'	653.30	653.30
☐ N. BRG. PIER 2	85+28.90	27.00'	653.29	653.29
O	85+38.90	27.00'	653.25	653.29
P	85+48.90	27.00'	653.20	653.27
Q	85+58.90	27.00'	653.13	653.24
R	85+68.90	27.00'	653.06	653.17
S	85+78.90	27.00'	652.99	653.09
T	85+88.90	27.00'	652.90	652.98
U	85+98.90	27.00'	652.80	652.85
☐ BRG. N. ABUT.	86+09.15	27.00'	652.70	652.70
BK. N. ABUT.	86+11.05	27.00'	652.68	652.68

**BEAM 13**

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflections
BK. S. ABUT.	83+66.41	33.00'	652.71	652.71
☐ BRG. S. ABUT.	83+68.32	33.00'	652.73	652.73
A	83+78.32	33.00'	652.82	652.86
B	83+88.32	33.00'	652.90	652.98
C	83+98.32	33.00'	652.98	652.98
D	84+08.32	33.00'	653.04	653.15
E	84+18.32	33.00'	653.10	653.20
F	84+28.32	33.00'	653.15	653.23
G	84+38.32	33.00'	653.19	653.23
☐ S. BRG. PIER 1	84+48.57	33.00'	653.22	653.22
☐ PIER 1	84+49.57	33.00'	653.23	653.23
☐ N. BRG. PIER 1	84+50.57	33.00'	653.23	653.23
H	84+60.57	33.00'	653.25	653.29
I	84+70.57	33.00'	653.26	653.34
J	84+80.57	33.00'	653.27	653.36
K	84+90.57	33.00'	653.26	653.36
L	85+00.57	33.00'	653.25	653.34
M	85+10.57	33.00'	653.23	653.30
N	85+20.57	33.00'	653.20	653.23
☐ S. BRG. PIER 2	85+28.57	33.00'	653.17	653.17
☐ PIER 2	85+29.57	33.00'	653.17	653.17
☐ N. BRG. PIER 2	85+30.57	33.00'	653.17	653.17
O	85+40.57	33.00'	653.12	653.16
P	85+50.57	33.00'	653.07	653.14
Q	85+60.57	33.00'	653.00	653.11
R	85+70.57	33.00'	652.93	653.04
S	85+80.57	33.00'	652.85	652.95
T	85+90.57	33.00'	652.76	652.84
U	86+00.57	33.00'	652.67	652.71
☐ BRG. N. ABUT.	86+10.82	33.00'	652.56	652.56
BK. N. ABUT.	86+12.72	33.00'	652.54	652.54

**BEAM 14**

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflections
BK. S. ABUT.	83+68.08	39.00'	652.61	652.61
☐ BRG. S. ABUT.	83+69.98	39.00'	652.63	652.63
A	83+79.98	39.00'	652.72	652.76
B	83+89.98	39.00'	652.80	652.88
C	83+99.98	39.00'	652.87	652.97
D	84+09.98	39.00'	652.93	653.04
E	84+19.98	39.00'	652.99	653.09
F	84+29.98	39.00'	653.04	653.12
G	84+39.98	39.00'	653.08	653.12
☐ S. BRG. PIER 1	84+50.23	39.00'	653.11	653.11
☐ PIER 1	84+51.23	39.00'	653.11	653.11
☐ N. BRG. PIER 1	84+52.23	39.00'	653.11	653.11
H	84+62.23	39.00'	653.13	653.17
I	84+72.23	39.00'	653.14	653.22
J	84+82.23	39.00'	653.15	653.24
K	84+92.23	39.00'	653.14	653.24
L	85+02.23	39.00'	653.13	653.22
M	85+12.23	39.00'	653.11	653.17
N	85+22.23	39.00'	653.08	653.11
☐ S. BRG. PIER 2	85+30.23	39.00'	653.05	653.05
☐ PIER 2	85+31.23	39.00'	653.04	653.04
☐ N. BRG. PIER 2	85+32.23	39.00'	653.04	653.04
O	85+42.23	39.00'	652.99	653.03
P	85+52.23	39.00'	652.94	653.01
Q	85+62.23	39.00'	652.87	652.97
R	85+72.23	39.00'	652.80	652.91
S	85+82.23	39.00'	652.72	652.82
T	85+92.23	39.00'	652.63	652.71
U	86+02.23	39.00'	652.53	652.57
☐ BRG. N. ABUT.	86+12.48	39.00'	652.42	652.42
BK. N. ABUT.	86+14.38	39.00'	652.40	652.40

3/17/2016

**HBM**  
ENGINEERING GROUP, LLC  
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INSPECTION & TESTING  
RESEARCH & TESTING

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DESIGNED - LAB  
DRAWN - LAB  
CHECKED - MI, MAF  
DATE - 03/18/2016

REVISED -  
REVISED -  
REVISED -  
REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

TOP OF SLAB ELEVATIONS (SHEET 3 OF 3)  
STRUCTURE NO. 099-0537

SHEET NO. S1-11 OF 41 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
577	C-1-B	WILL/COOK	186	100
CONTRACT NO. 60H21				