

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
330	91Y-N-2	COOK	128	1
ILLINOIS			CONTRACT NO. 62A47	

FOR INDEX OF SHEETS, SEE SHEET NO. 2

# PROPOSED HIGHWAY PLANS

THIS PROJECT IS LOCATED IN THE VILLAGE OF LA GRANGE

F.A.P. ROUTE 330 (US 12/20/45 (LA GRANGE RD.))  
AT US 34 (OGDEN AVE.)  
SECTION: 91Y-N-2

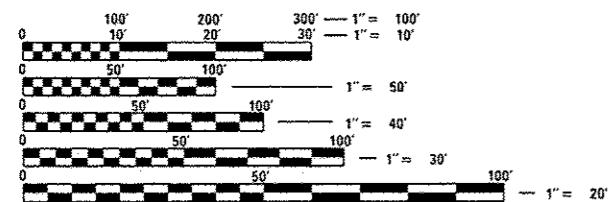
PROJECT: ACNHPP-STP-HSIP-0330(176)  
TRAFFIC SIGNAL MODERNIZATION AND CHANNELIZATION  
COOK COUNTY

C-91-200-15

TRAFFIC DATA:

US 12/20/45 (LA GRANGE RD.)  
2015 ADT = 26,800  
POSTED AND DESIGN SPEED (NORTH LEG) = 30 MPH  
POSTED AND DESIGN SPEED (SOUTH LEG) = 20 MPH

US 34 (OGDEN AVE.)  
2015 ADT = 25,500  
POSTED AND DESIGN SPEED (BOTH LEGS) = 30 MPH

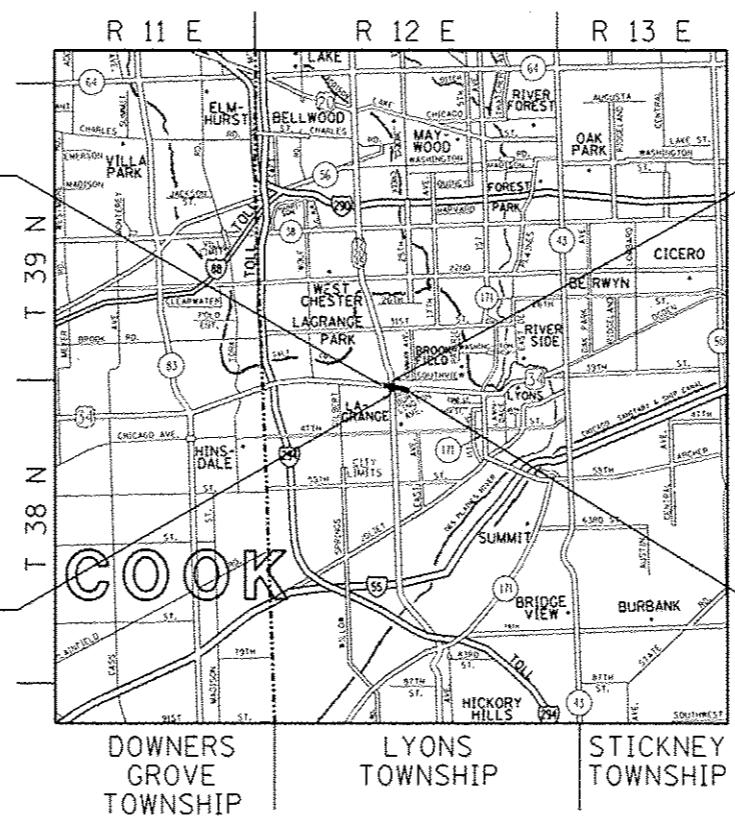


FULL SIZE PLANS HAVE BEEN PREPARED USING STANDARD ENGINEERING SCALES. REDUCED SIZED PLANS WILL NOT CONFORM TO STANDARD SCALES. IN MAKING MEASUREMENTS ON REDUCED PLANS, THE ABOVE SCALES MAY BE USED.

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

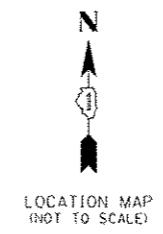
BEGIN PROJECT  
STA. 96 + 98

PROJECT LIMIT  
STA. 496 + 92



PROJECT LIMIT  
STA. 503 + 13

END PROJECT  
STA. 110 + 99



GROSS & NET LENGTH = 2,022 FT. = 0.383 MILE

PROJECT ENGINEER: DAN WILGREEN (847) 705-4240  
PROJECT MANAGER: FAWAD AQUEEL (847) 705-4247

CONTRACT NO. 62A47

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

SUBMITTED October 25 20 16

John Fortmann Jr.  
REGIONAL ENGINEER

Dee A 20 16  
Maureen M. Addis PE  
ENGINEER OF DESIGN AND ENVIRONMENT

Dee A 20 16  
DIRECTOR OF PROGRAM DEVELOPMENT

PRINTED BY THE AUTHORITY  
OF THE STATE OF ILLINOIS



**GENERAL NOTES CONTINUED**

- 23. ALL CONNECTIONS TO EXISTING OR PROPOSED MANHOLES THAT CONTAIN COMBINED SEWERS SHALL BE WATERTIGHT AS PER ASTM C-923. A RUBBER BOOT CONFORMING TO ASTM C-923 SHALL BE PROVIDED FOR ALL CONNECTIONS BETWEEN COMBINED SEWERS AND MANHOLES AND FOR ALL CONNECTIONS BETWEEN STORM SEWERS AND MANHOLES THAT CONTAIN COMBINED SEWERS.
- 24. TOP OF GRATE ELEVATIONS GIVEN ON THE PLANS ARE ONLY TO ASSIST THE CONTRACTOR IN DETERMINING THE APPROXIMATE OVERALL HEIGHT OF EACH STRUCTURE. FRAMES/GRATES ON ALL NEW STRUCTURES SHALL BE ADJUSTED TO THE FINAL ELEVATIONS OF THE AREAS IN WHICH THEY ARE LOCATED, AS PART OF THE STRUCTURE COST. TOP OF GRATE ELEVATIONS SHOWN ON THE PLANS FOR STRUCTURES LOCATED IN THE CURB LINE ARE GIVEN AT THE EDGE OF PAVEMENT. PROPOSED SEWER LENGTHS PROVIDED IN THE QUANTITIES ARE FROM THE CENTER OF THE STRUCTURES.
- 25. THE CONTRACTOR SHALL COORDINATE CONSTRUCTION ACTIVITIES WITH THE COMMERCIAL/RESIDENTIAL DEVELOPER FOR THE NORTHEAST CORNER OF US 12/20/45 AND US 34.
- 26. THE RESIDENT ENGINEER SHALL CONTACT PACE'S TRANSPORTATION ENGINEER AT TRANSPORTATION.ENGINEER@PACEBUS.COM AT LEAST 10 DAYS PRIOR TO BEGINNING CONSTRUCTION TO INFORM PACE OF THE CONSTRUCTION SCHEDULE.
- 27. THE RESIDENT ENGINEER SHALL REPORT CLEARANCES UNDER THE RR BRIDGE LOCATED AT STA. 110+25 AFTER RESURFACING.
- 28. EXISTING STONE ON THE NORTH SIDE OF US 34, WEST OF US 12/20/45, AND AT THE NORTHWEST CORNER OF US 34 AND US 12/20/45 SHALL BE STORED, PROTECTED AND USED FOR REGRADING. EXISTING BRICK AT THE NORTHWEST CORNER OF US 34 AND US 12/20/45 SHALL BE STORED, PROTECTED, AND USED FOR PROPOSED SIDEWALK LEADING TO THE PROPERTY AT THE NORTHWEST CORNER. THE COST OF THIS WORK SHALL BE INCLUDED IN THE COST OF PCC SIDEWALK 5".
- 29. PROPOSED SIDEWALK RAMPS SHALL CONFORM TO CURRENT ADA REQUIREMENTS AND APPLICABLE STATE HIGHWAY STANDARDS OR AS DETERMINED BY THE ENGINEER.
- 30. ALL PROPOSED SIDE CURB QUANTITIES SHALL BE PAID FOR AS PCC SIDEWALK 5", UNLESS OTHERWISE NOTED ON PLANS.

FILE NAME *	USER NAME * carlgfm	DESIGNED -	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>INDEX OF SHEETS, STATE STANDARDS, AND GENERAL NOTES U.S. ROUTE 12/20/45 AT U.S. ROUTE 34</b>	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
p:\1\084EBIDINTEC\Illinois.gov\P100T\De	ments\DOT Office\District 1\Projects\P113	12/20/16	12/20/16			330	91Y-N-2	COOK	128	3
PLOT SCALE * 100.0000 "/ in.	CHECKED -	REVISED -	CONTRACT NO. 62A47							
Default	PLOT DATE * 11/2/2016	DATE -	REVISED -			ILLINOIS FED. AID PROJECT				
					SCALE:	SHEET OF SHEETS STA. TO STA.				

URBAN

SUMMARY OF QUANTITIES			CONSTRUCTION TYPE CODE																		
CODE NO	ITEM	UNIT	TOTAL QUANTITIES	90% FED 10% STATE (HSIP)	90% FED 10% STATE (HSIP)	100% LA GRANGE	70% FED 30% LA GRANGE (STP)	70% FED 30% LA GRANGE (STP)	70% FED 30% LA GRANGE (STP)	90% FED 10% STATE (HSIP)	100% LA GRANGE	80% FED 20% STATE (NHPP)									
				URBAN	ROADWAY 0004	TR. SIGNALS 0021	E.V.P. 0021	ROADWAY 0004	TR. SIGNALS 0021	LIGHTING 0021	INTERCONNECT 0021	UTILITIES 0043	ROADWAY 0004								
20100210	TREE REMOVAL (OVER 15 UNITS DIAMETER)	UNIT	44				44														
20200100	EARTH EXCAVATION	CU YD	934	280			466					188									
20201200	REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL	CU YD	517	126			306					85									
20400800	FURNISHED EXCAVATION	CU YD	92				92														
20800150	TRENCH BACKFILL	CU YD	1167	680			33					454									
21101615	TOPSOIL FURNISH AND PLACE, 4"	SQ YD	1370	238			972					160									
* 25000400	NITROGEN FERTILIZER NUTRIENT	POUND	17	3			12					2									
* 25000500	PHOSPHORUS FERTILIZER NUTRIENT	POUND	17	3			12					2									
* 25000600	POTASSIUM FERTILIZER NUTRIENT	POUND	17	3			12					2									
* 25200110	SODDING, SALT TOLERANT	SQ YD	1370	238			972					160									
* 25200200	SUPPLEMENTAL WATERING	UNIT	14	2			10					2									
28000250	TEMPORARY EROSION CONTROL SEEDING	POUND	30	5			21					4									
28000400	PERIMETER EROSION BARRIER	FOOT	955	228			574					153									
28000510	INLET FILTERS	EACH	20	6			9					5									
30300112	AGGREGATE SUBGRADE IMPROVEMENT 12"	SO YD	2747	647			1668					432									
												* SPECIALTY ITEMS									

FILE NAME :	USER NAME : karkm	DESIGNED -	REVISED - FT 12-1-2016	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SUMMARY OF QUANTITIES U.S. ROUTE 12/2045 AT U.S. ROUTE 34				F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
PROJECT :	OFFICE :	CHECKED -	REVISED -		330	91Y-N-2	COOK	128	4				
PLOT SCALE :	PLOT DATE :	DATE -	REVISED -		SCALE: SHEET NO. OF SHEETS STA. TO STA.				FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				
									CONTRACT NO. 62A47				

15



SUMMARY OF QUANTITIES			CONSTRUCTION TYPE CODE																	
CODE NO	ITEM	UNIT	TOTAL QUANTITIES	90% FED 10% STATE (HSIP)	90% FED 10% STATE (HSIP)	100% LA GRANGE	70% FED 30% LA GRANGE (STP)	70% FED 30% LA GRANGE (STP)	70% FED 30% LA GRANGE (STP)	90% FED 10% STATE (HSIP)	100% LA GRANGE	80% FED 20% STATE (NHPP)								
				ROADWAY 0004	TR. SIGNALS 0021	E.V.P. 0021	ROADWAY 0004	TR. SIGNALS 0021	LIGHTING 0021	INTERCONNECT 0021	UTILITIES 0043	ROADWAY 0004								
35501320	HOT-MIX ASPHALT BASE COURSE, 9"	SQ YD	2331	515			1472					344								
40600290	BITUMINOUS MATERIALS (TACK COAT)	POUND	9295	3301			3792					2202								
40600400	MIXTURE FOR CRACKS, JOINTS, AND FLANGEWAYS	TON	17	7			5					5								
40600827	POLYMERIZED LEVELING BINDER (MACHINE METHOD), 1L-4.75, N50	TON	421	138			191					92								
40600982	HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT	SQ YD	121	46			43					32								
40601005	HOT-MIX ASPHALT REPLACEMENT OVER PATCHES	TON	29	9			14					6								
40603565	POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, MIX "E", N70	TON	1296	505			454					337								
42001300	PROTECTIVE COAT	SQ YD	1276	638			212					426								
42300400	PORTLAND CEMENT CONCRETE DRIVEWAY PAVEMENT, 8 INCH	SQ YD	71	42								29								
42400200	PORTLAND CEMENT CONCRETE SIDEWALK 5 INCH	SQ FT	5405	2978			441					1986								
42400800	DETECTABLE WARNINGS	SQ FT	256	123			50					83								
44000100	PAVEMENT REMOVAL	SQ YD	972	76			845					51								
													* SPECIALTY ITEMS							

FILE NAME =	USER NAME =	DESIGNED -	REVISED -
OFFICE OF	PROJECTS	DESIGNED -	REVISED -
PLOT SCALE =	CHECKED -	REVISED -	REVISED -
PLOT DATE =	DATE -	REVISED -	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

SUMMARY OF QUANTITIES			
U.S. ROUTE 12/20/45 AT U.S. ROUTE 34			
SCALE:	SHEET NO.	OF SHEETS	STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
330	91Y-N-2	COOK	128	5
CONTRACT NO. 62A47			FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT	

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SUMMARY OF QUANTITIES			CONSTRUCTION TYPE CODE																		
CODE NO	ITEM	UNIT	TOTAL QUANTITIES	90% FED 10% STATE (HSIP)	90% FED 10% STATE (HSIP)	100% LA GRANGE	70% FED 30% LA GRANGE (STP)	70% FED 30% LA GRANGE (STP)	70% FED 30% LA GRANGE (STP)	90% FED 10% STATE (HSIP)	100% LA GRANGE	80% FED 20% STATE (INHP)									
				URBAN	ROADWAY 0004	TR. SIGNALS 0021	E.V.P. 0021	ROADWAY 0004	TR. SIGNALS 0021	LIGHTING 0021	INTERCONNECT 0021	UTILITIES 0043	ROADWAY 0004								
44000156	HOT-MIX ASPHALT SURFACE REMOVAL, 1 3/4"	SQ YD	2982	1789								1193									
44000159	HOT-MIX ASPHALT SURFACE REMOVAL, 2 1/2"	SQ YD	7864	2818			3167					1879									
44000200	DRIVEWAY PAVEMENT REMOVAL	SQ YD	300	180								120									
44000300	CURB REMOVAL	FOOT	956	75			831					50									
44000500	COMBINATION CURB AND CUTTER REMOVAL	FOOT	909	507			64					338									
44000600	SIDEWALK REMOVAL	SQ FT	7763	3606			1753					2404									
44002207	HOT-MIX ASPHALT REMOVAL OVER PATCHES, 1 3/4"	SQ YD	144	86								58									
44002217	HOT-MIX ASPHALT REMOVAL OVER PATCHES, 4 1/4"	SQ YD	57				57														
44201753	CLASS D PATCHES, TYPE II, 9 INCH	SQ YD	100	43			28					29									
44201757	CLASS D PATCHES, TYPE III, 9 INCH	SQ YD	36	10			18					8									
44201759	CLASS D PATCHES, TYPE IV, 9 INCH	SQ YD	30	18								12									
44201789	CLASS D PATCHES, TYPE II, 12 INCH	SQ YD	147	65			38					44									
44201794	CLASS D PATCHES, TYPE III, 12 INCH	SQ YD	43	16			16					11									
44201796	CLASS D PATCHES, TYPE IV, 12 INCH	SQ YD	105	47			26					32									
44201815	CLASS D PATCHES, TYPE II, 14 INCH	SQ YD	182	85			39					58									
												* SPECIALTY ITEMS									

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SUMMARY OF QUANTITIES			CONSTRUCTION TYPE CODE																	
CODE NO	ITEM	UNIT	TOTAL QUANTITIES	90% FED 10% STATE (HSIP)	90% FED 10% STATE (HSIP)	100% LA GRANGE	70% FED 30% LA GRANGE (STP)	70% FED 30% LA GRANGE (STP)	70% FED 30% LA GRANGE (STP)	90% FED 10% STATE (HSIP)	100% LA GRANGE	80% FED 20% STATE (NHPP)								
				URBAN	ROADWAY 0004	TR. SIGNALS 0021	E.V.P. 0021	ROADWAY 0004	TR. SIGNALS 0021	LIGHTING 0021	INTERCONNECT 0021	UTILITIES 0043	ROADWAY 0004							
550A0040	STORM SEWERS, CLASS A, TYPE 1 10"	FOOT	117				117													
550A0330	STORM SEWERS, CLASS A, TYPE 2 10"	FOOT	36				36													
550A0340	STORM SEWERS, CLASS A, TYPE 2 12"	FOOT	337	192			17					128								
550A0710	STORM SEWERS, CLASS A, TYPE 3 24"	FOOT	131	78								53								
55100300	STORM SEWER REMOVAL 8"	FOOT	94	12			73					9								
60100085	GEOTECHNICAL FABRIC FOR FRENCH DRAINS	50 YD	208	58			111					39								
60108204	PIPE UNDERDRAINS, TYPE 2, 4"	FOOT	1019	285			544					190								
60200105	CATCH BASINS, TYPE A, 4' -DIAMETER, TYPE 1 FRAME, OPEN LID	EACH	1				1													
60201340	CATCH BASINS, TYPE A, 4' -DIAMETER, TYPE 24 FRAME AND GRATE	EACH	1									1								
60206905	CATCH BASINS, TYPE C, TYPE 1 FRAME, OPEN LID	EACH	7	1			4					2								
60208240	CATCH BASINS, TYPE C, TYPE 24 FRAME AND GRATE	EACH	5	3								2								
60221000	MANHOLES, TYPE A, 5' -DIAMETER, TYPE 1 FRAME, OPEN LID	EACH	2	1								1								
													* SPECIALTY ITEMS							

12

SUMMARY OF QUANTITIES			CONSTRUCTION TYPE CODE																		
CODE NO	ITEM	UNIT	TOTAL QUANTITIES	90% FED 10% STATE (HSIP)	90% FED 10% STATE (HSIP)	100% LA GRANGE	70% FED 30% LA GRANGE (STP)	70% FED 30% LA GRANGE (STP)	70% FED 30% LA GRANGE (STP)	90% FED 10% STATE (HSIP)	100% LA GRANGE	80% FED 20% STATE (HSIP)									
				ROADWAY 0004	TR. SIGNALS 0021	E.V.P. 0021	ROADWAY 0004	TR. SIGNALS 0021	LIGHTING 0021	INTERCONNECT 0021	UTILITIES 0043	ROADWAY 0004									
60221100	MANHOLES, TYPE A, 5' -DIAMETER, TYPE 1	EACH	3	1								2									
	FRAME, CLOSED LID																				
60223800	MANHOLES, TYPE A, 6' -DIAMETER, TYPE 1	EACH	1									1									
	FRAME, CLOSED LID																				
60255500	MANHOLES TO BE ADJUSTED	EACH	1									1									
60257900	MANHOLES TO BE RECONSTRUCTED	EACH	1				1														
60262700	INLETS TO BE RECONSTRUCTED	EACH	2				2														
60300105	FRAMES AND GRATES TO BE ADJUSTED	EACH	3				2					1									
60300305	FRAMES AND LIDS TO BE ADJUSTED	EACH	3				3														
60300405	VALVE BOX FRAMES TO BE ADJUSTED	EACH	3								3										
60500050	REMOVING CATCH BASINS	EACH	5	3								2									
60500060	REMOVING INLETS	EACH	7	1			4					2									
60600605	CONCRETE CURB, TYPE B	FOOT	57				57														
60603800	COMBINATION CONCRETE CURB AND GUTTER,	FOOT	742	146			498					98									
	TYPE B-6.12																				
60605000	COMBINATION CONCRETE CURB AND GUTTER,	FOOT	954	490			137					327									
	TYPE B-6.24																				
66900200	NON-SPECIAL WASTE DISPOSAL	CU YD	1320	291			834					195									

\* SPECIALTY ITEMS

SUMMARY OF QUANTITIES			CONSTRUCTION TYPE CODE																	
CODE NO	ITEM	UNIT	TOTAL QUANTITIES	90% FED 10% STATE (HSIP)	90% FED 10% STATE (HSIP)	100% LA GRANGE	70% FED 30% LA GRANGE (STP)	70% FED 30% LA GRANGE (STP)	70% FED 30% LA GRANGE (STP)	90% FED 10% STATE (HSIP)	100% LA GRANGE	80% FED 20% STATE (NHPP)								
				URBAN	ROADWAY 0004	TR. SIGNALS 0021	E.V.P. 0021	ROADWAY 0004	TR. SIGNALS 0021	LIGHTING 0021	INTERCONNECT 0021	UTILITIES 0043	ROADWAY 0004							
* 66900450	SPECIAL WASTE PLANS AND REPORTS	LSUM	1	0.2			0.6					0.2								
* 66900530	SOIL DISPOSAL ANALYSIS	EACH	7	1			4					2								
67000400	ENGINEER'S FIELD OFFICE, TYPE A	CAL MO	6	1			4					1								
67100100	MOBILIZATION	LSUM	1	0.3			0.5					0.2								
70300100	SHORT TERM PAVEMENT MARKING	FOOT	6772	2746			2195					1831								
70300150	SHORT TERM PAVEMENT MARKING REMOVAL	SQ FT	3468	1422			1098					948								
70300210	TEMPORARY PAVEMENT MARKING LETTERS AND SYMBOLS	SQ FT	595.6	270			145.6					180								
70300220	TEMPORARY PAVEMENT MARKING - LINE 4"	FOOT	5456	2013			2101					1342								
70300240	TEMPORARY PAVEMENT MARKING - LINE 6"	FOOT	1715	815			356					544								
70300260	TEMPORARY PAVEMENT MARKING - LINE 12"	FOOT	785	333			230					222								
70300280	TEMPORARY PAVEMENT MARKING - LINE 24"	FOOT	302	118			104					80								
70300520	PAVEMENT MARKING TAPE, TYPE III 4"	FOOT	3631	1519			1098					1014								
* 72000100	SIGN PANEL - TYPE 1	SQ FT	245	94			57	30				64								
* 72000200	SIGN PANEL - TYPE 2	SQ FT	76		63			13												
* 72400100	REMOVE SIGN PANEL ASSEMBLY - TYPE A	EACH	2				1					1								
												* SPECIALTY ITEMS								

FILE NAME = USER NAME = rnorm  
DESIGNED - FT 12-1-2016  
REVISOR -  
REVISIONS -  
PLOT SCALE = 1000000 / 1" = 1000'  
CHECKED -  
PLOT DATE = 12/1/2016  
DATE -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES  
U.S. ROUTE 12/2045 AT U.S. ROUTE 34

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
330	91Y-N-2	COOK	128	9
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT			CONTRACT NO. 62A47	

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

15

SUMMARY OF QUANTITIES			CONSTRUCTION TYPE CODE																	
CODE NO	ITEM	UNIT	TOTAL QUANTITIES	90% FED 10% STATE (HSIP)	90% FED 10% STATE (HSIP)	100% LA GRANGE	70% FED 30% LA GRANGE (STP)	70% FED 30% LA GRANGE (STP)	70% FED 30% LA GRANGE (STP)	90% FED 10% STATE (HSIP)	100% LA GRANGE	80% FED 20% STATE (INHP)								
				URBAN	ROADWAY 0004	TR. SIGNALS 0021	E.V.P. 0021	ROADWAY 0004	TR. SIGNALS 0021	LIGHTING 0021	INTERCONNECT 0021	UTILITIES 0043	ROADWAY 0004							
* 72400200	REMOVE SIGN PANEL ASSEMBLY - TYPE B	EACH	1				1													
* 72400310	REMOVE SIGN PANEL - TYPE 1	SQ FT	183	81			48					54								
* 72400600	RELOCATE SIGN PANEL ASSEMBLY - TYPE B	EACH	1				1													
* 72400710	RELOCATE SIGN PANEL - TYPE 1	SQ FT	21	12								9								
* 72800100	TELESCOPING STEEL SIGN SUPPORT	FOOT	145	56			51					38								
* 73100100	BASE FOR TELESCOPING STEEL SIGN SUPPORT	EACH	8	3			3					2								
* 78000100	THERMOPLASTIC PAVEMENT MARKING - LETTERS AND SYMBOLS	SQ FT	595.6	270			145.6					180								
* 78000200	THERMOPLASTIC PAVEMENT MARKING - LINE 4"	FOOT	5456	2013			2101					1342								
* 78000400	THERMOPLASTIC PAVEMENT MARKING - LINE 6"	FOOT	1715	815			356					544								
* 78000600	THERMOPLASTIC PAVEMENT MARKING - LINE 12"	FOOT	785	333			230					222								
* 78000650	THERMOPLASTIC PAVEMENT MARKING - LINE 24"	FOOT	302	118			104					80								
* 78100100	RAISED REFLECTIVE PAVEMENT MARKER	EACH	267	111			81					75								
78300200	RAISED REFLECTIVE PAVEMENT MARKER REMOVAL	EACH	225	81			90					54								
* 80400100	ELECTRIC SERVICE INSTALLATION	EACH	1						1											
													* SPECIALTY ITEMS							

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SUMMARY OF QUANTITIES			CONSTRUCTION TYPE CODE																							
CODE NO	ITEM	UNIT	TOTAL QUANTITIES	90% FED 10% STATE (HSIP)	90% FED 10% STATE (HSIP)	100% LA GRANGE	70% FED 30% LA GRANGE (STP)	70% FED 30% LA GRANGE (STP)	70% FED 30% LA GRANGE (STP)	90% FED 10% STATE (HSIP)	100% LA GRANGE	80% FED 20% STATE (H&PP)														
				URBAN	ROADWAY 0004	TR. SIGNALS 0021	E.V.P. 0021	ROADWAY 0004	TR. SIGNALS 0021	LIGHTING 0021	INTERCONNECT 0021	UTILITIES 0043	ROADWAY 0004													
* 80400200	ELECTRIC UTILITY SERVICE CONNECTION	LSUM	1																							
* 81028200	UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA.	FOOT	2445		1652																					
* 81028220	UNDERGROUND CONDUIT, GALVANIZED STEEL, 3" DIA.	FOOT	1458		439																					
* 81028240	UNDERGROUND CONDUIT, GALVANIZED STEEL, 4" DIA.	FOOT	908		583																					
* 81400100	HANDHOLE	EACH	8		5																					
* 81400200	HEAVY-DUTY HANDHOLE	EACH	5		4																					
* 81400300	DOUBLE HANDHOLE	EACH	5		3																					
* 81400730	HANDHOLE, COMPOSITE CONCRETE	EACH	9																							
* 82500350	LIGHTING CONTROLLER, BASE MOUNTED, 240VOLT, 100AMP	EACH	1																							
* 83600200	LIGHT POLE FOUNDATION, 24" DIAMETER	FOOT	122																							
* 84100110	REMOVAL OF TEMPORARY LIGHTING UNIT	EACH	15																							
* 84200500	REMOVAL OF LIGHTING UNIT, SALVAGE	EACH	12																							
* 84200804	REMOVAL OF POLE FOUNDATION	EACH	12																							

B

\* SPECIALTY ITEMS

FILE NAME =	USER NAME =	DESIGNED -	REVISED - FT 12-1-2016
par\148246\BID\ATEG\11\tds\pwr\PI\DOT\Document\1\DOT	off\11\tds\dot\11\tds\pwr\PI\1512-CAD\tds\Design\P11331		
PLOT SCALE = 100'0000' / in	CHECKED -	REVISED -	
PLOT DATE = 12/11/2016	DATE -	REVISED -	

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES				F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
U.S. ROUTE 12/2045 AT U.S. ROUTE 34				330	91Y-N-2	COOK	128	11
SCALE: SHEET NO. OF SHEETS STA. TO STA.				CONTRACT NO. 62A47				
FED. ROAD DIST. NO. 1   ILLINOIS   FED. AID PROJECT								

SUMMARY OF QUANTITIES			CONSTRUCTION TYPE CODE																		
CODE NO	ITEM	UNIT	TOTAL QUANTITIES	90% FED 10% STATE (HSIP)	90% FED 10% STATE (HSIP)	100% LA GRANGE	70% FED 30% LA GRANGE (STP)	70% FED 30% LA GRANGE (STP)	70% FED 30% LA GRANGE (STP)	90% FED 10% STATE (HSIP)	100% LA GRANGE	80% FED 20% STATE (NHPP)									
				URBAN	ROADWAY 0004	TR. SIGNALS 0021	E.V.P. 0021	ROADWAY 0004	TR. SIGNALS 0021	LIGHTING 0021	INTERCONNECT 0021	UTILITIES 0043	ROADWAY 0004								
* 85000200	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	3							3											
* 85100500	PAINT NEW TRAFFIC SIGNAL POST	EACH	6					6													
* 85100800	PAINT NEW COMBINATION MAST ARM AND POLE, UNDER 40 FOOT	EACH	6					6													
* 85100901	PAINT NEW COMBINATION MAST ARM AND POLE, 40 FOOT AND OVER	EACH	2					2													
* 86400100	TRANSCEIVER - FIBER OPTIC	EACH	2							2											
* 87300925	ELECTRIC CABLE IN CONDUIT, TRACER, NO. 14 1C	FOOT	5236							5236											
* 87301215	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C	FOOT	1699		1335			364													
* 87301225	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	2546		1707			839													
* 87301245	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	FOOT	3901		1748			2153													
* 87301255	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C	FOOT	2555		2128			427													
* 87301305	ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1 PAIR	FOOT	7011		5374			1637													
												* SPECIALTY ITEMS									

SUMMARY OF QUANTITIES			CONSTRUCTION TYPE CODE																		
CODE NO	ITEM	UNIT	TOTAL QUANTITIES	90% FED 10% STATE (HSIP)	90% FED 10% STATE (HSIP)	100% LA GRANGE	70% FED 30% LA GRANGE (STP)	70% FED 30% LA GRANGE (STP)	70% FED 30% LA GRANGE (STP)	90% FED 10% STATE (HSIP)	100% LA GRANGE	80% FED 20% STATE (HSIP)									
				URBAN	ROADWAY 0004	TR. SIGNALS 0021	E.V.P. 0021	ROADWAY 0004	TR. SIGNALS 0021	LIGHTING 0021	INTERCONNECT 0021	UTILITIES 0043	ROADWAY 0004								
* 87301805	ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2 C	FOOT	1249		740			509													
* 87301900	ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C	FOOT	3034		1926			1108													
* 87502500	TRAFFIC SIGNAL POST, GALVANIZED STEEL 16 FT.	EACH	5		4			1													
* 87502520	TRAFFIC SIGNAL POST, GALVANIZED STEEL 18 FT.	EACH	1		1																
* 87702890	STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 32 FT.	EACH	4		2			2													
* 87702900	STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 34 FT.	EACH	1		1																
* 87702920	STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 38 FT.	EACH	1					1													
* 87702940	STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 42 FT.	EACH	1		1																
* 87702970	STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 48 FT.	EACH	1					1													
* 87800100	CONCRETE FOUNDATION, TYPE A	FOOT	32		24			8													
* 87800150	CONCRETE FOUNDATION, TYPE C	FOOT	8		4			4													
												* SPECIALTY ITEMS									

SUMMARY OF QUANTITIES			CONSTRUCTION TYPE CODE																			
CODE NO	ITEM	UNIT	TOTAL QUANTITIES	90% FED 10% STATE (HSIP)	90% FED 10% STATE (HSIP)	100% LA GRANGE	70% FED 30% LA GRANGE (STP)	70% FED 30% LA GRANGE (STP)	70% FED 30% LA GRANGE (STP)	90% FED 10% STATE (HSIP)	100% LA GRANGE	80% FED 20% STATE (NHPP)										
				URBAN	ROADWAY 0004	TR. SIGNALS 0021	E.V.P. 0021	ROADWAY 0004	TR. SIGNALS 0021	LIGHTING 0021	INTERCONNECT 0021	UTILITIES 0043	ROADWAY 0004									
* 87800415	CONCRETE FOUNDATION, TYPE E 36-INCH DIAMETER	FOOT	92		46			46														
* 88030020	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST-ARM MOUNTED	EACH	15		6			9														
* 88030050	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED	EACH	5		2			3														
* 88030100	SIGNAL HEAD, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED	EACH	7		6			1														
* 88030110	SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST-ARM MOUNTED	EACH	7		6			1														
* 88102717	PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER	EACH	10		8			2														
* 88200410	TRAFFIC SIGNAL BACKPLATE, LOUVERED, FORMED PLASTIC	EACH	22		12			10														
* 88500100	INDUCTIVE LOOP DETECTOR	EACH	24		19			5														
* 88600100	DETECTOR LOOP, TYPE I	FOOT	1138		913			225														
* 88700200	LIGHT DETECTOR	EACH	5			5																
* 88700300	LIGHT DETECTOR AMPLIFIER	EACH	2			2																
* 88800100	PEDESTRIAN PUSH-BUTTON	EACH	10		8			2														
													* SPECIALTY ITEMS									

12

SUMMARY OF QUANTITIES			CONSTRUCTION TYPE CODE																		
CODE NO	ITEM	UNIT	TOTAL QUANTITIES	90% FED 10% STATE (HSIP)	90% FED 10% STATE (HSIP)	100% LA GRANGE	70% FED 30% LA GRANGE (STP)	70% FED 30% LA GRANGE (STP)	70% FED 30% LA GRANGE (STP)	90% FED 10% STATE (HSIP)	100% LA GRANGE	80% FED 20% STATE (NHPP)									
				URBAN	ROADWAY 0004	TR. SIGNALS 0021	E.V.P. 0021	ROADWAY 0004	TR. SIGNALS 0021	LIGHTING 0021	INTERCONNECT 0021	UTILITIES 0043	ROADWAY 0004								
* 89000100	TEMPORARY TRAFFIC SIGNAL INSTALLATION	EACH	1		1																
* 89502300	REMOVE ELECTRIC CABLE FROM CONDUIT	FOOT	12431		8542					3889											
* 89502375	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1		1																
* 89502380	REMOVE EXISTING HANDHOLE	EACH	7		7																
* 89502382	REMOVE EXISTING DOUBLE HANDHOLE	EACH	1		1																
* 89502385	REMOVE EXISTING CONCRETE FOUNDATION	EACH	9		9																
* A2004820	TREE, GLEDITSIA TRIACANTHOS INERMIS SKYLINE (SKYLINE THORNLESS COMMON HONEYLOCUST), 2-1/2" CALIPER, BALLED AND BURLAPPED	EACH	3				3														
* X0324085	EMERGENCY VEHICLE PRIORITY SYSTEM LINE SENSOR CABLE, NO. 20 3/C	FOOT	1129			1129															
* X0324599	ROD AND CLEAN EXISTING CONDUIT	FOOT	3540							3540											
* X0326364	TEMPORARY AERIAL CABLE WITH MESSENGER WIRE	FOOT	1334						1334												
* X0327004	TEMPORARY WOOD POLE, 60 FT., CLASS 4	EACH	15						15												
X0327980	PAVEMENT MARKING REMOVAL - WATER BLASTING	50 FT	4661	1919			1462					1280									
* SPECIALTY ITEMS																					

12

SUMMARY OF QUANTITIES			CONSTRUCTION TYPE CODE																			
CODE NO	ITEM	UNIT	TOTAL QUANTITIES	90% FED 10% STATE (HSIP)	90% FED 10% STATE (HSIP)	100% LA GRANGE	70% FED 30% LA GRANGE (STP)	70% FED 30% LA GRANGE (STP)	70% FED 30% LA GRANGE (STP)	90% FED 10% STATE (HSIP)	100% LA GRANGE	80% FED 20% STATE (NHPP)										
				ROADWAY 0004	TR. SIGNALS 0021	E.V.P. 0021	ROADWAY 0004	TR. SIGNALS 0021	LIGHTING 0021	INTERCONNECT 0021	UTILITIES 0043	ROADWAY 0004										
* X1400081	FULL-ACTUATED CONTROLLER AND TYPE SUPER P CABINET (SPECIAL)	EACH	1					1														
* X1400108	FULL-ACTUATED CONTROLLER AND TYPE SUPER R CABINET (SPECIAL)	EACH	1		1																	
* X1400147	ELECTRIC CABLE ASSEMBLY IN CONDUIT, 600V (XLP-TYPE TC) 2/C NO. 10 AND NO. 10 GROUND	FOOT	1113						1113													
* X1400150	SERVICE INSTALLATION, GROUND MOUNTED, METERED	EACH	2		1			1														
X4022000	TEMPORARY ACCESS (COMMERCIAL ENTRANCE)	EACH	4	2								2										
X4401198	HOT-MIX ASPHALT SURFACE REMOVAL, VARIABLE DEPTH	50 YD	53	31								22										
X4402020	CONCRETE MEDIAN SURFACE REMOVAL	50 FT	34	20								14										
<input type="checkbox"/> X5537600	STORM SEWERS TO BE CLEANED 8"	FOOT	82	49								33										
<input type="checkbox"/> X5537700	STORM SEWERS TO BE CLEANED 10"	FOOT	149	89								60										
<input type="checkbox"/> X5537800	STORM SEWERS TO BE CLEANED 12"	FOOT	266	159								107										
X6020094	MANHOLES, TYPE A, 6' -DIAMETER, TYPE 1 FRAME, CLOSED LID, RESTRICTOR PLATE	EACH	1									1										
<input type="checkbox"/>	NON-PART. (100% STATE)																					
																						* SPECIALTY ITEMS



SUMMARY OF QUANTITIES			CONSTRUCTION TYPE CODE																					
CODE NO	ITEM	UNIT	TOTAL QUANTITIES	90% FED 10% STATE (HSIP)	90% FED 10% STATE (HSIP)	100% LA GRANGE	70% FED 30% LA GRANGE (STP)	70% FED 30% LA GRANGE (STP)	70% FED 30% LA GRANGE (STP)	90% FED 10% STATE (HSIP)	100% LA GRANGE	80% FED 20% STATE (NHPP)												
				ROADWAY 0004	TR. SIGNALS 0021	E.V.P. 0021	ROADWAY 0004	TR. SIGNALS 0021	LIGHTING 0021	INTERCONNECT 0021	UTILITIES 0043	ROADWAY 0004												
X6030310	FRAMES AND LIDS TO BE ADJUSTED (SPECIAL)	EACH	10	4			3					3												
X6061311	CONCRETE MEDIAN SURFACE, 5 INCH	SO FT	34	20								14												
X7010216	TRAFFIC CONTROL AND PROTECTION. (SPECIAL)	LSUM	1	0.3			0.5					0.2												
X8100105	CONDUIT SPLICE	EACH	3							3														
* X8210040	TEMPORARY LUMINAIRE, HIGH PRESSURE SODIUM VAPOR, HORIZONTAL MOUNT, 400 WATT	EACH	11						11															
* X8250091	COMBINATION LIGHTING CONTROLLER	EACH	2						2															
* X8360215	LIGHT POLE FOUNDATION, 24" DIAMETER, OFFSET	FOOT	42						42															
* X8600105	MASTER CONTROLLER (SPECIAL)	EACH	1							1														
* X8620200	UNINTERRUPTABLE POWER SUPPLY, SPECIAL	EACH	2		1			1																
* X8710024	FIBER OPTIC CABLE IN CONDUIT, NO. 62.5/125, MM12F SM24F	FOOT	5236							5236														
Z0004562	COMBINATION CONCRETE CURB AND GUTTER REMOVAL AND REPLACEMENT	FOOT	500	300								200												
													* SPECIALTY ITEMS											

SUMMARY OF QUANTITIES			CONSTRUCTION TYPE CODE																		
CODE NO	ITEM	UNIT	TOTAL QUANTITIES	90% FED 10% STATE (HSIP)	90% FED 10% STATE (HSIP)	100% LA GRANGE	70% FED 30% LA GRANGE (STP)	70% FED 30% LA GRANGE (STP)	70% FED 30% LA GRANGE (STP)	90% FED 10% STATE (HSIP)	100% LA GRANGE	80% FED 20% STATE (NHPP)									
				URBAN	ROADWAY 0004	TR. SIGNALS 0021	E.V.P. 0021	ROADWAY 0004	TR. SIGNALS 0021	LIGHTING 0021	INTERCONNECT 0021	UTILITIES 0043	ROADWAY 0004								
Z0013798	CONSTRUCTION LAYOUT	LSUM	1	0.3			0.5					0.2									
Z0018500	DRAINAGE STRUCTURES TO BE CLEANED	EACH	6	3								3									
Z0030850	TEMPORARY INFORMATION SIGNING	50 FT	140.3	84.2								56.1									
Z0033020	LUMINAIRE SAFETY CABLE ASSEMBLY	EACH	24						24												
Z0033028	MAINTENANCE OF LIGHTING SYSTEM	CAL MO	12						12												
Z0033046	RE-OPTIMIZE TRAFFIC SIGNAL SYSTEM LEVEL 2	EACH	1							1											
Z0048665	RAILROAD PROTECTIVE LIABILITY INSURANCE	LSUM	1				1														
Z0056608	STORM SEWER (WATER MAIN REQUIREMENTS) 12 INCH	FOOT	188	112								76									
Z0056610	STORM SEWER (WATER MAIN REQUIREMENTS) 15 INCH	FOOT	191	114								77									
Z0056616	STORM SEWER (WATER MAIN REQUIREMENTS) 24 INCH	FOOT	107	64								43									
Z0073510	TEMPORARY TRAFFIC SIGNAL TIMING	EACH	1	1																	
X1400201	RADAR VEHICLE DETECTION SYSTEM, SINGLE APPROACH, STOP BAR	EACH	1						1												
X1400202	LUMINAIRE (SPECIAL)	EACH	2						2												
X1400203	LUMINAIRE, LED, HORIZONTAL MOUNT, TYPE B	EACH	8						8												
												* SPECIALTY ITEMS									

FILE NAME =	USER NAME = lortom	DESIGNED -	REVISED - FT 12-1-2016
OFFICE OF DISTRICT PROJECTS/PH/3B/2-CADD/015-Dwgn/PH/3B/2-001		REVISIONS	
PLOT SCALE = 1000000' / 1"		CHECKED -	REVISED -
PLOT DATE = 12/1/2016		DATE -	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

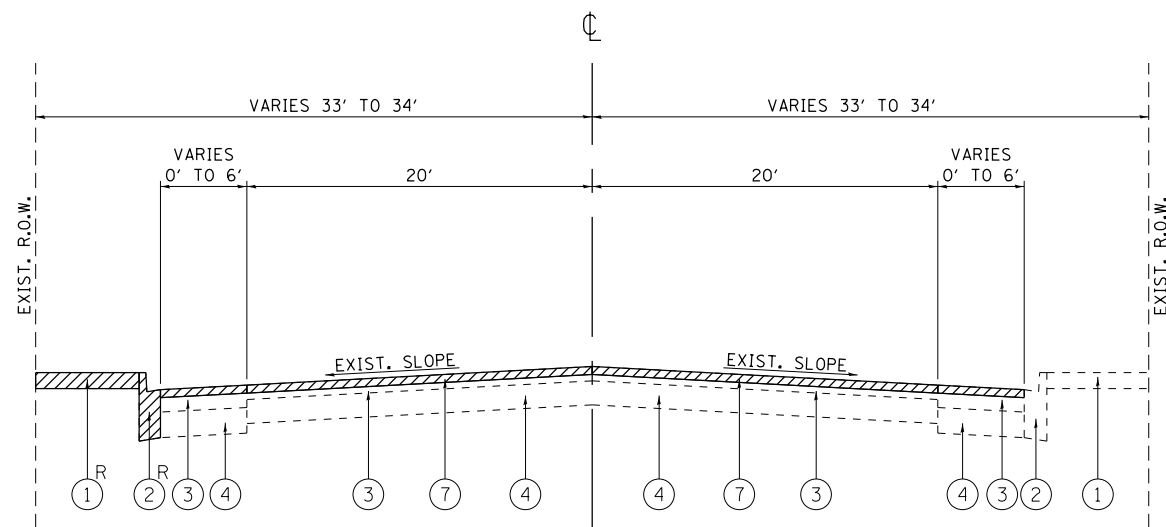
SUMMARY OF QUANTITIES  
U.S. ROUTE 12/2045 AT U.S. ROUTE 34

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
330	91Y-N-2	COOK	128	18
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT			CONTRACT NO. 62A47	

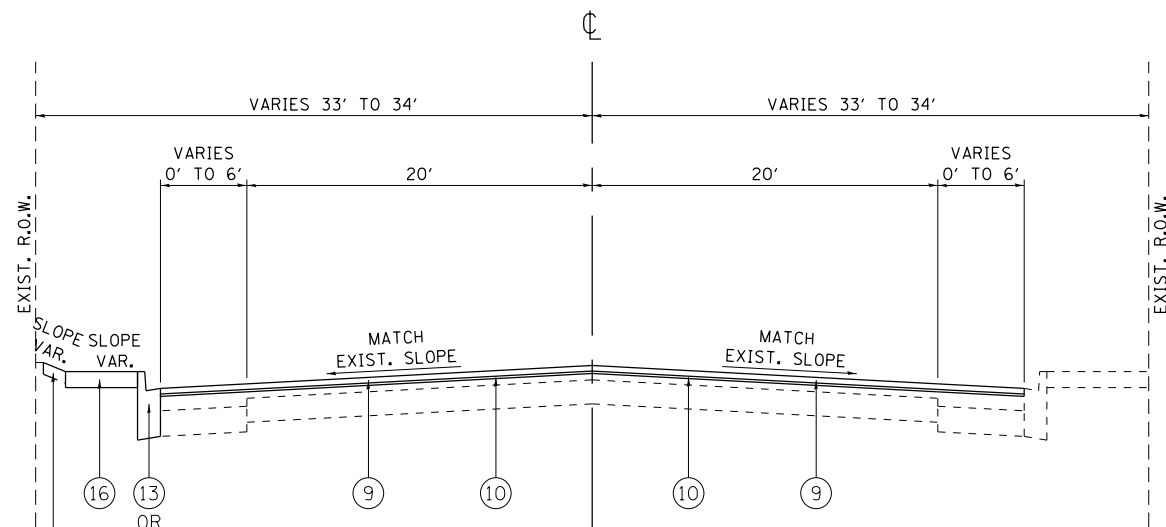
SCALE: SHEET NO. OF SHEETS STA. TO STA.

NON-PART. (100% STATE)





**US 34**  
**EXISTING TYPICAL SECTION**  
 STA. 96+98 TO STA. 100+00



**US 34**  
**PROPOSED TYPICAL SECTION**  
 STA. 96+98 TO STA. 100+00

EXISTING STONE SHALL BE USED FOR REGRADING.

**LEGEND:**

- |                                                                |                                                                 |                                                     |
|----------------------------------------------------------------|-----------------------------------------------------------------|-----------------------------------------------------|
| ① EXISTING CONCRETE SIDEWALK                                   | ⑦ PROPOSED HMA SURFACE REMOVAL, 2 1/2"                          | ⑬ PROPOSED COMB. CONC. CURB AND GUTTER, TYPE B-6.24 |
| ② EXISTING COMB. CONC. CURB AND GUTTER OR EXISTING CURB        | ⑧ PROPOSED HMA SURFACE REMOVAL, 1 3/4"                          | ⑭ PROPOSED COMB. CONC. CURB AND GUTTER, TYPE B-6.12 |
| ③ EXISTING HMA SURFACE COURSE, VARIES FROM ± 4" TO ± 7"        | ⑨ PROPOSED POLYMERIZED HMA SURFACE COURSE, MIX "E", N70, 1 3/4" | ⑮ PROPOSED SODDING, SALT TOLERANT AND TOPSOIL, 4"   |
| ④ EXISTING CONCRETE BASE COURSE, VARIES FROM ± 6 1/2" TO ± 10" | ⑩ PROPOSED POLYMERIZED LEVELING BINDER (MM), IL-4.75, N50, 3/4" | ⑯ PROPOSED PCC SIDEWALK, 5"                         |
| ⑤ EXISTING HMA SURFACE COURSE, ± 1 3/4"                        | ⑪ PROPOSED HMA BASE COURSE, 9"                                  | ⑰ PROPOSED HMA SURFACE REMOVAL, VARIABLE DEPTH      |
| ⑥ EXISTING SOD                                                 | ⑫ PROPOSED AGGREGATE SUBGRADE IMPROVEMENT, 12"                  | ⑱ PROPOSED PIPE UNDERDRAINS, TYPE 2, 4"             |

R = TO BE REMOVED  
 (SEE ROADWAY PLAN AND PROFILE SHEETS  
 FOR LOCATIONS OF REMOVAL)

HOT-MIX ASPHALT MIXTURE REQUIREMENTS			
MIXTURE USES	MIXTURE TYPE	AIR VOIDS @ Ndes	QUALITY MANAGEMENT PROGRAM (QMP)
PAVEMENT RECONSTRUCTION AND WIDENING	POLYMERIZED HMA SURFACE COURSE, MIX "E", N70, (IL 9.5 mm); 1 3/4"	4% @ 70 GYR.	OCP
	POLYMERIZED LEVELING BINDER (MM), IL-4.75, N50; 3/4"	3.5% @ 50 GYR.	QC/OA
	HMA BASE COURSE, (HMA BINDER IL-19 mm); 9"	4% @ 90 GYR.	OCP
PAVEMENT RESURFACING	POLYMERIZED HMA SURFACE COURSE, MIX "E", N70, (IL 9.5 mm); 1 3/4"	4% @ 70 GYR.	OCP
	POLYMERIZED LEVELING BINDER (MM), IL-4.75, N50; 3/4"	3.5% @ 50 GYR.	QC/OA
PATCHING	CLASS D PATCHES (HMA BINDER IL-19 mm)	4% @ 70 GYR	QC/OA
	HOT-MIX ASPHALT REPLACEMENT OVER PATCHES (HMA BINDER IL-19 mm)	4% @ 70 GYR	QC/OA

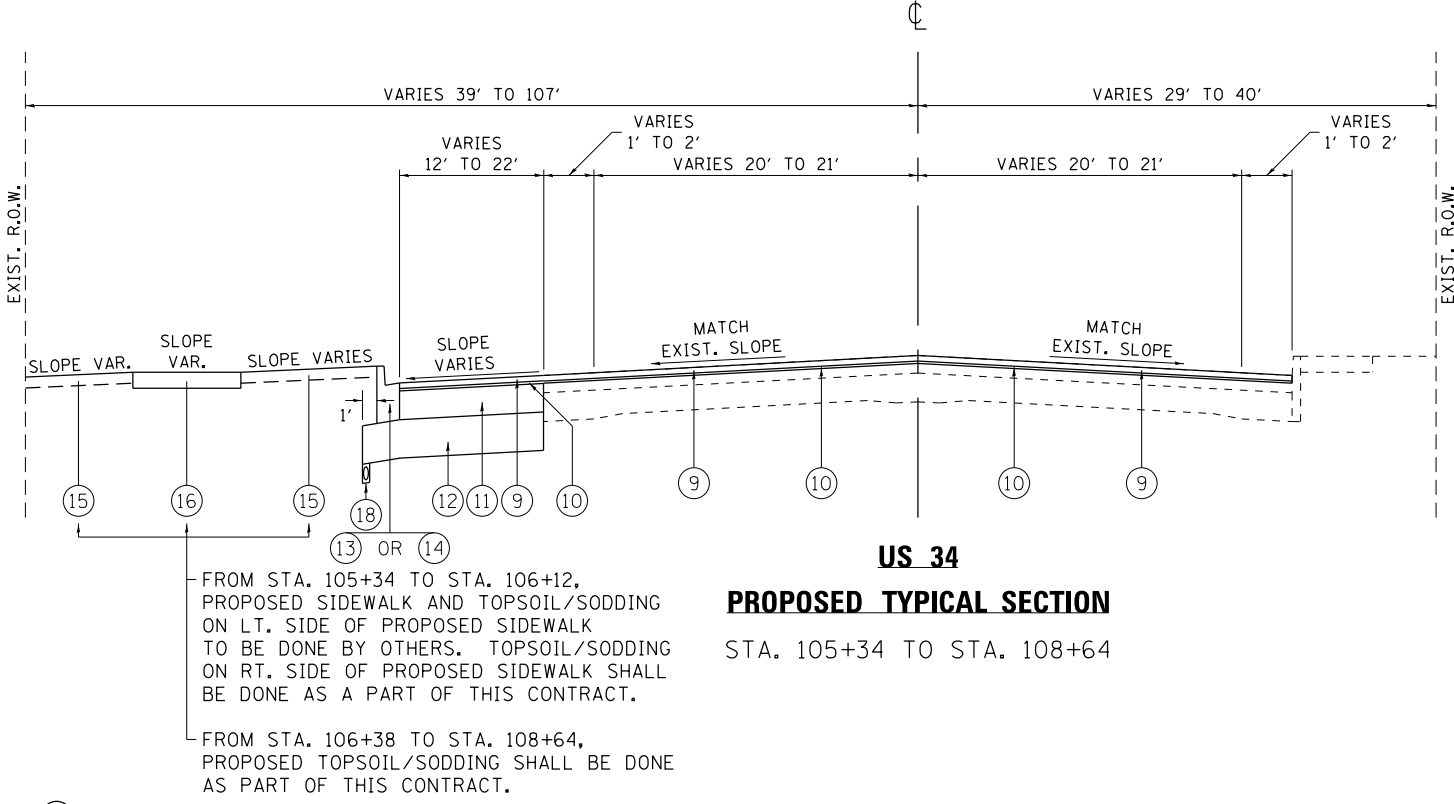
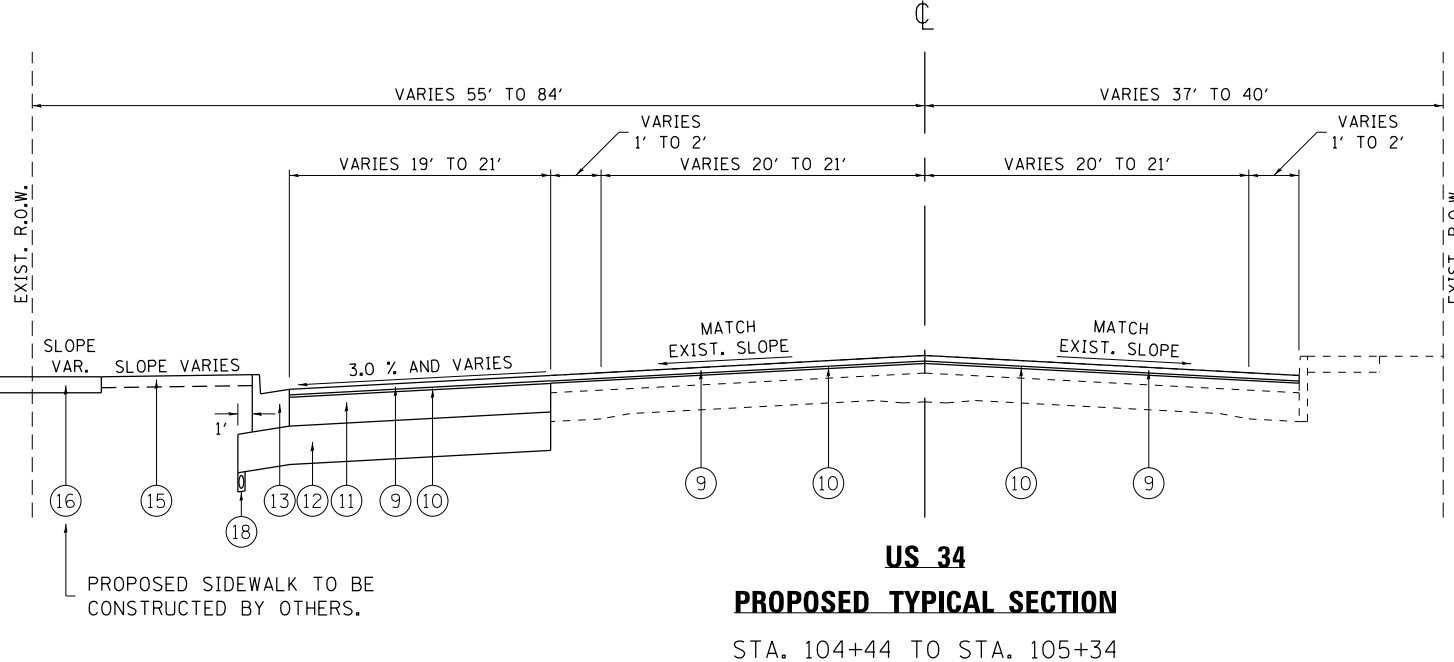
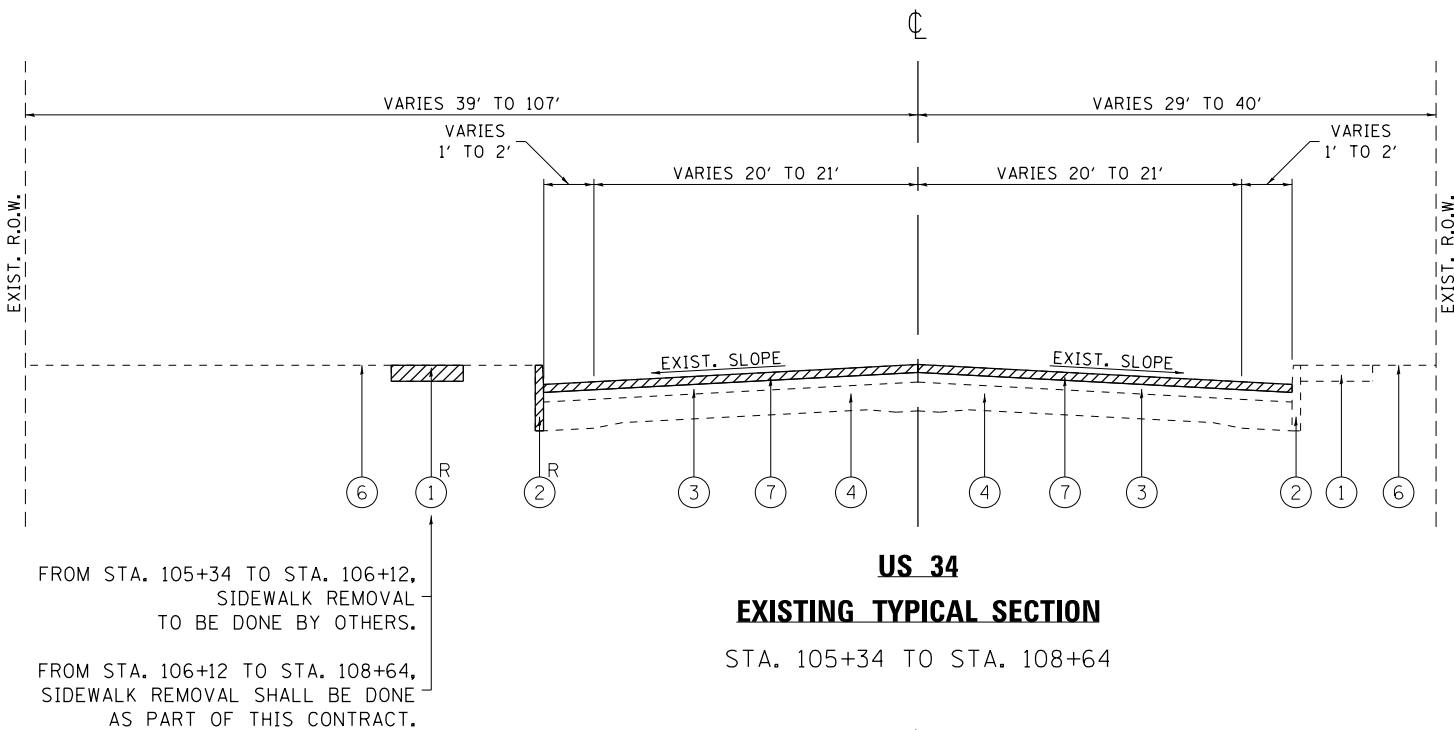
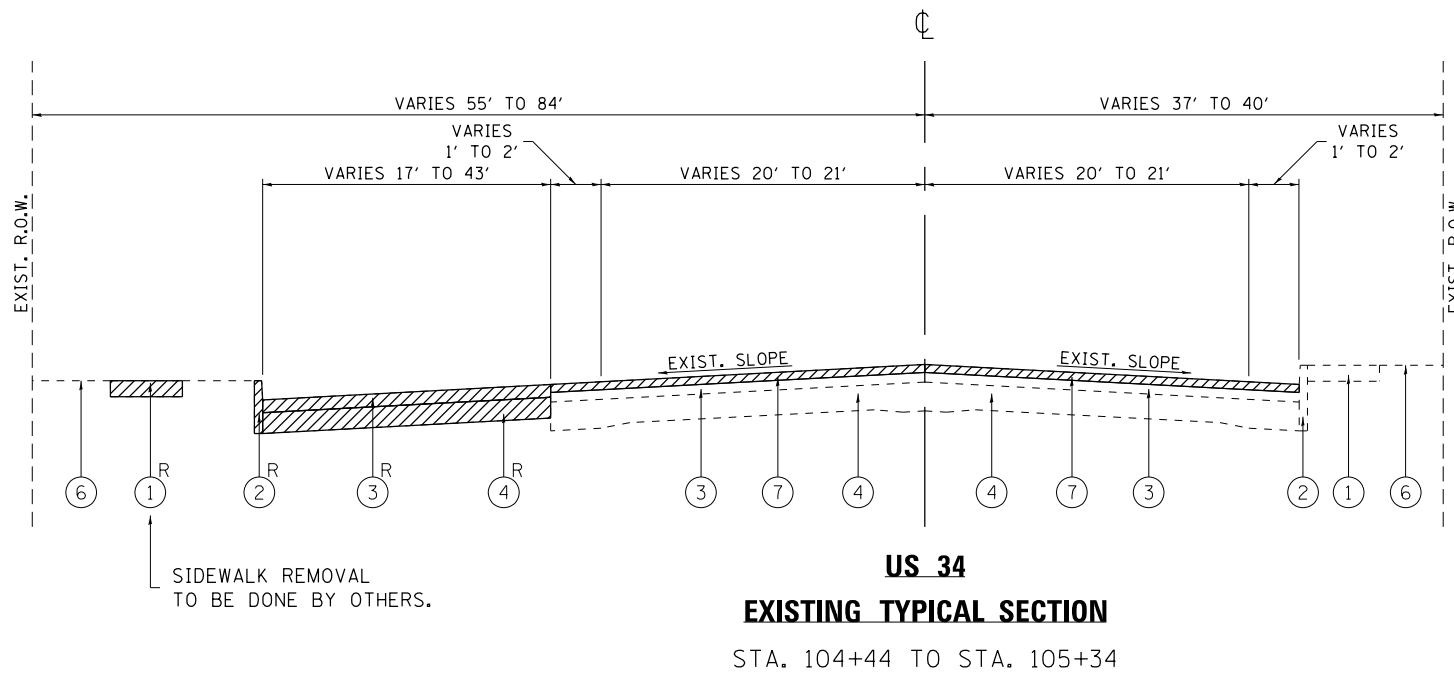
QMP DESIGNATION: QUALITY CONTROL/QUALITY ASSURANCE (QC/OA); QUALITY CONTROL FOR PERFORMANCE (QCP)

- NOTE 1: THE UNIT WEIGHT USED TO CALCULATE ALL HMA SURFACE MIXTURE QUANTITIES IS 112 LBS/SQ YD/IN.
- NOTE 2: THE "AC TYPE" FOR POLYMERIZED HMA MIXES 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 RECYCLED MATERIALS SEE DISTRICT ONE SPECIAL PROVISIONS.
- QUALITY MANAGEMENT PROGRAM (QMP) IDENTIFIES THE PARTICULAR QUALITY CONTROL SPECIFICATION THAT APPLIES TO THE HMA MIXTURE.

**NOTES:**

1. THE CONTRACTOR SHALL MILL FIRST PRIOR TO PATCHING BETWEEN STA. 96+98 AND STA. 100+00.





**LEGEND:**

- ① EXISTING CONCRETE SIDEWALK
- ② EXISTING COMB. CONC. CURB AND GUTTER OR EXISTING CURB
- ③ EXISTING HMA SURFACE COURSE, VARIES FROM ± 4" TO ± 7"
- ④ EXISTING CONCRETE BASE COURSE, VARIES FROM ± 6½" TO ± 10"
- ⑤ EXISTING HMA SURFACE COURSE, ± 1¾"
- ⑥ EXISTING SOD
- ⑦ PROPOSED HMA SURFACE REMOVAL, 2½"
- ⑧ PROPOSED HMA SURFACE REMOVAL, 1¾"
- ⑨ PROPOSED POLYMERIZED HMA SURFACE COURSE, MIX "E", N70, 1¾"
- ⑩ PROPOSED POLYMERIZED LEVELING BINDER (MM), IL-4.75, N50, ¾"
- ⑪ PROPOSED HMA BASE COURSE, 9"
- ⑫ PROPOSED AGGREGATE SUBGRADE IMPROVEMENT, 12"

- ⑬ PROPOSED COMB. CONC. CURB AND GUTTER, TYPE B-6.24
- ⑭ PROPOSED COMB. CONC. CURB AND GUTTER, TYPE B-6.12
- ⑮ PROPOSED SODDING, SALT TOLERANT AND TOPSOIL, 4"
- ⑯ PROPOSED PCC SIDEWALK, 5"
- ⑰ PROPOSED HMA SURFACE REMOVAL, VARIABLE DEPTH
- ⑱ PROPOSED PIPE UNDERDRAINS, TYPE 2, 4"

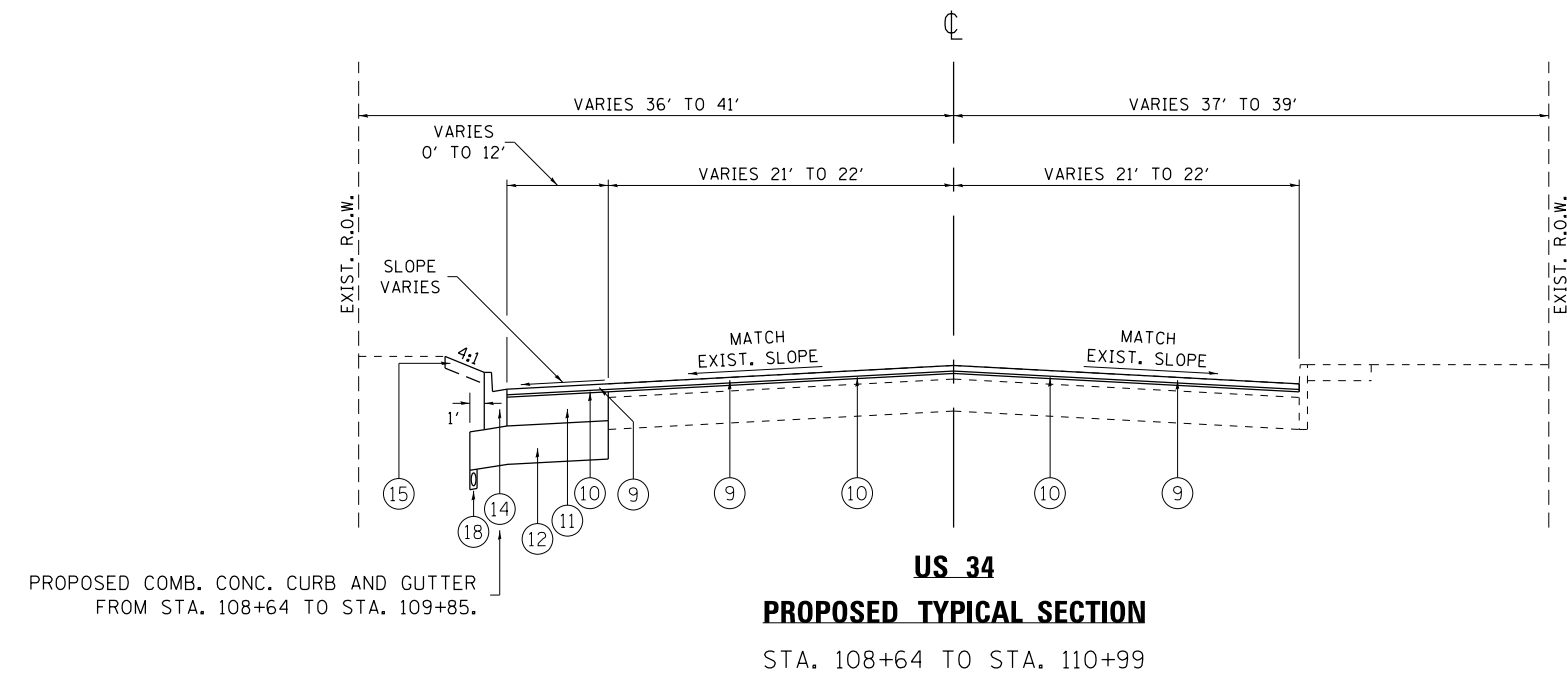
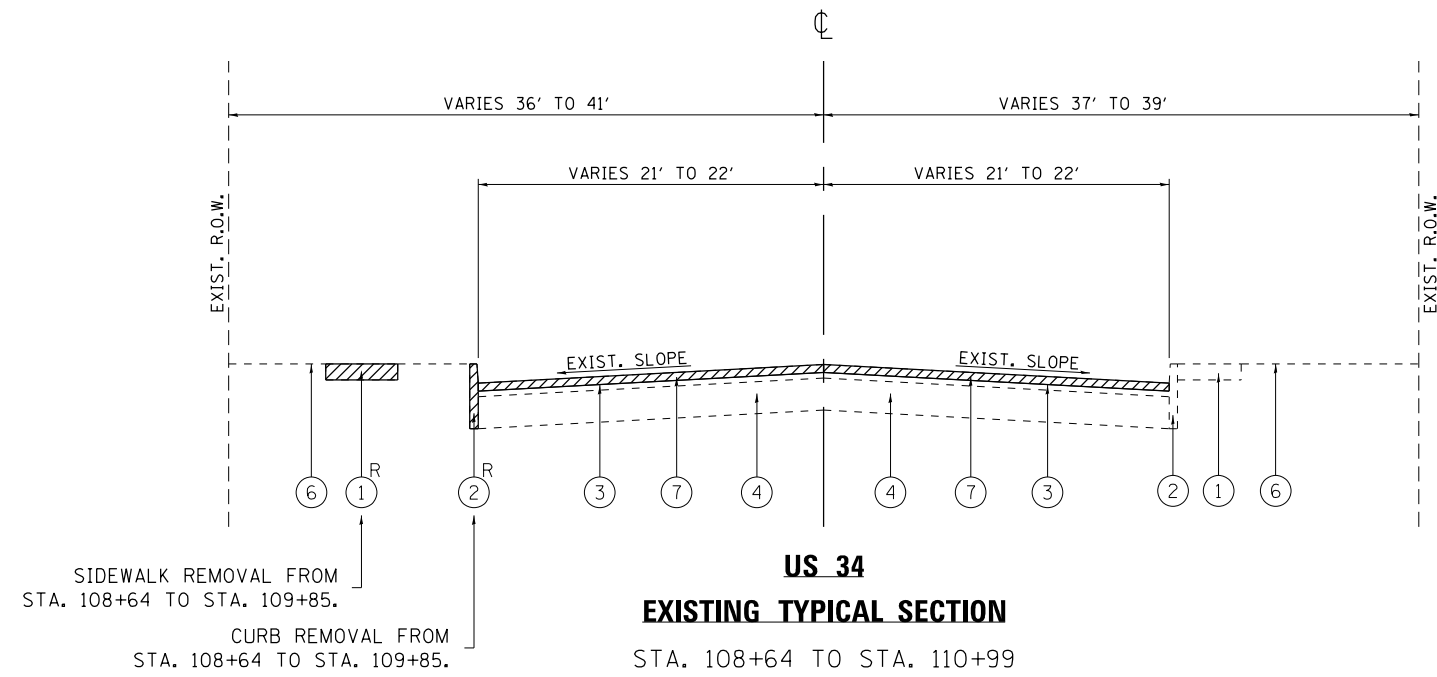
**NOTES:**

1. THE CONTRACTOR SHALL MILL FIRST PRIOR TO PATCHING BETWEEN STA. 104+44 AND STA. 108+64.
2. PROPOSED PIPE UNDERDRAINS, TYPE 2, 4" SHALL BE INSTALLED FROM STA. 103+00 TO STA. 108+64.

R = TO BE REMOVED  
(SEE ROADWAY PLAN AND PROFILE SHEETS FOR LOCATIONS OF REMOVAL)

FILE NAME =	USER NAME = tar1qfm	DESIGNED -	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>TYPICAL SECTIONS U.S. ROUTE 1220/45 AT U.S. ROUTE 34</b>	F.A.P. RTE. =	SECTION =	COUNTY =	TOTAL SHEETS =	SHEET NO. =	
p:\11\084EBID\INTEG.illinois.gov\PI\DOT\Documents\DOT Offices\District 1\Projects\PI13812\Design\PI13812-shr-typical.dgn						F.A.P. RTE. = 330	SECTION = 91Y-N-2	COUNTY = COOK	TOTAL SHEETS = 128	SHEET NO. = 22	
PLOT SCALE = 100.0000' / 1" =						CONTRACT NO. 62A47					
PLOT DATE = 11/2/2016						ILLINOIS FED. AID PROJECT					





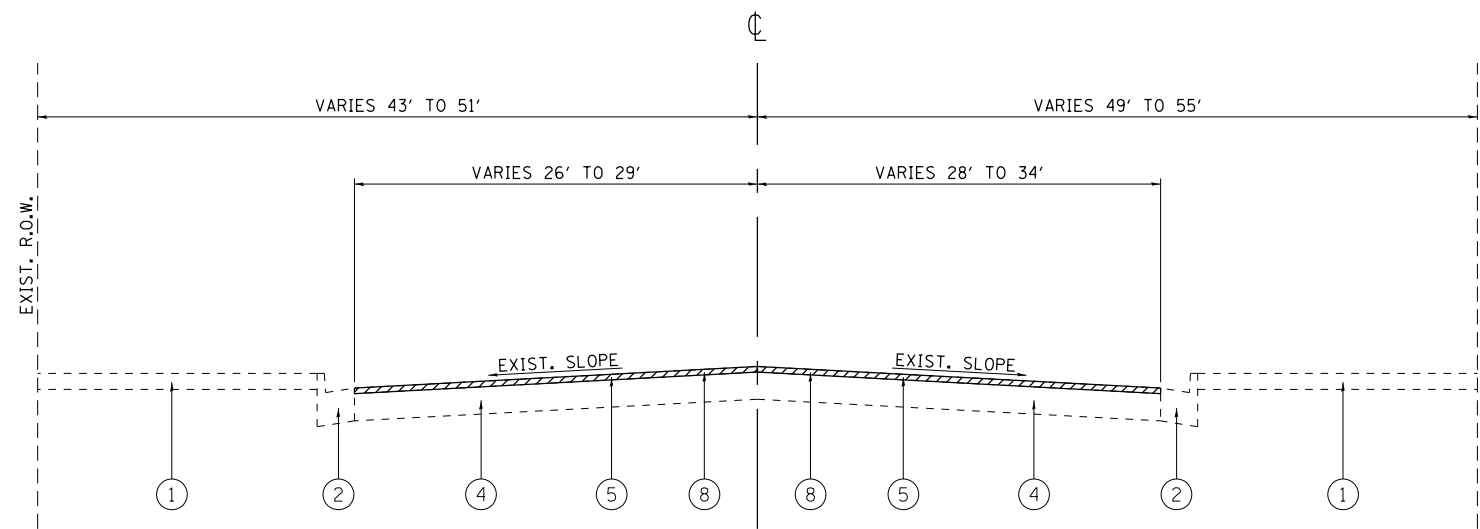
**LEGEND:**

- ① EXISTING CONCRETE SIDEWALK
  - ② EXISTING COMB. CONC. CURB AND GUTTER OR EXISTING CURB
  - ③ EXISTING HMA SURFACE COURSE, VARIES FROM ± 4" TO ± 7"
  - ④ EXISTING CONCRETE BASE COURSE, VARIES FROM ± 6 1/2" TO ± 10"
  - ⑤ EXISTING HMA SURFACE COURSE, ± 1 3/4"
  - ⑥ EXISTING SOD
  - ⑦ PROPOSED HMA SURFACE REMOVAL, 2 1/2"
  - ⑧ PROPOSED HMA SURFACE REMOVAL, 1 3/4"
  - ⑨ PROPOSED POLYMERIZED HMA SURFACE COURSE, MIX "E", N70, 1 3/4"
  - ⑩ PROPOSED POLYMERIZED LEVELING BINDER (MM), IL-4.75, N50, 3/4"
  - ⑪ PROPOSED HMA BASE COURSE, 9"
  - ⑫ PROPOSED AGGREGATE SUBGRADE IMPROVEMENT, 12"
  - ⑬ PROPOSED COMB. CONC. CURB AND GUTTER, TYPE B-6.24
  - ⑭ PROPOSED COMB. CONC. CURB AND GUTTER, TYPE B-6.12
  - ⑮ PROPOSED SODDING, SALT TOLERANT AND TOPSOIL, 4"
  - ⑯ PROPOSED PCC SIDEWALK, 5"
  - ⑰ PROPOSED HMA SURFACE REMOVAL, VARIABLE DEPTH
  - ⑱ PROPOSED PIPE UNDERDRAINS, TYPE 2, 4"
- R = TO BE REMOVED (SEE ROADWAY PLAN AND PROFILE SHEETS FOR LOCATIONS OF REMOVAL)

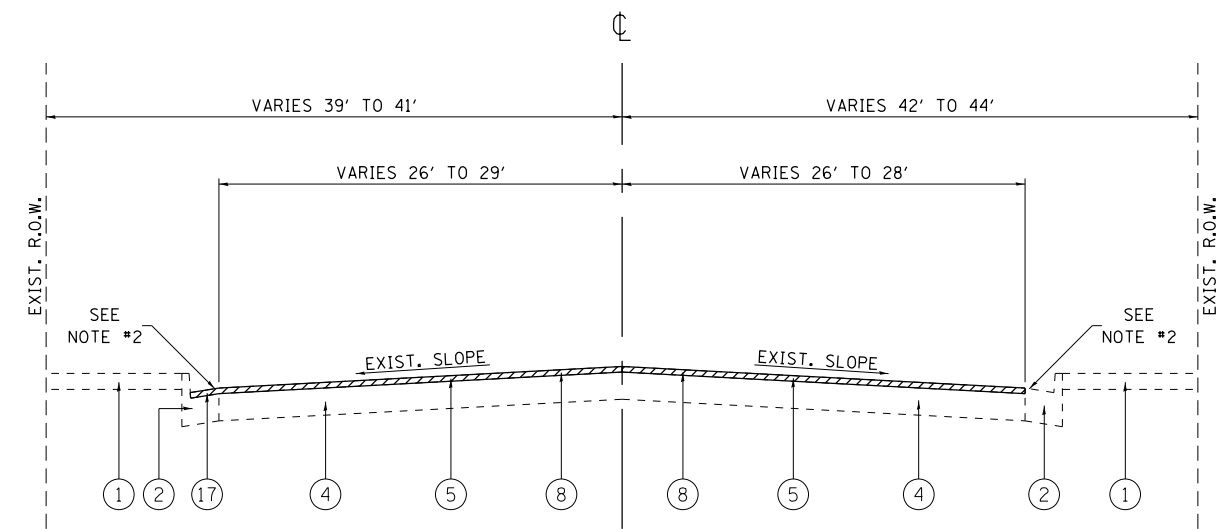
**NOTES:**

1. THE CONTRACTOR SHALL PATCH FIRST PRIOR TO MILLING BETWEEN STA. 108+64 AND STA. 110+99.
2. PROPOSED PIPE UNDERDRAINS, TYPE 2, 4" SHALL BE INSTALLED FROM STA. 108+64 TO STA. 109+85.

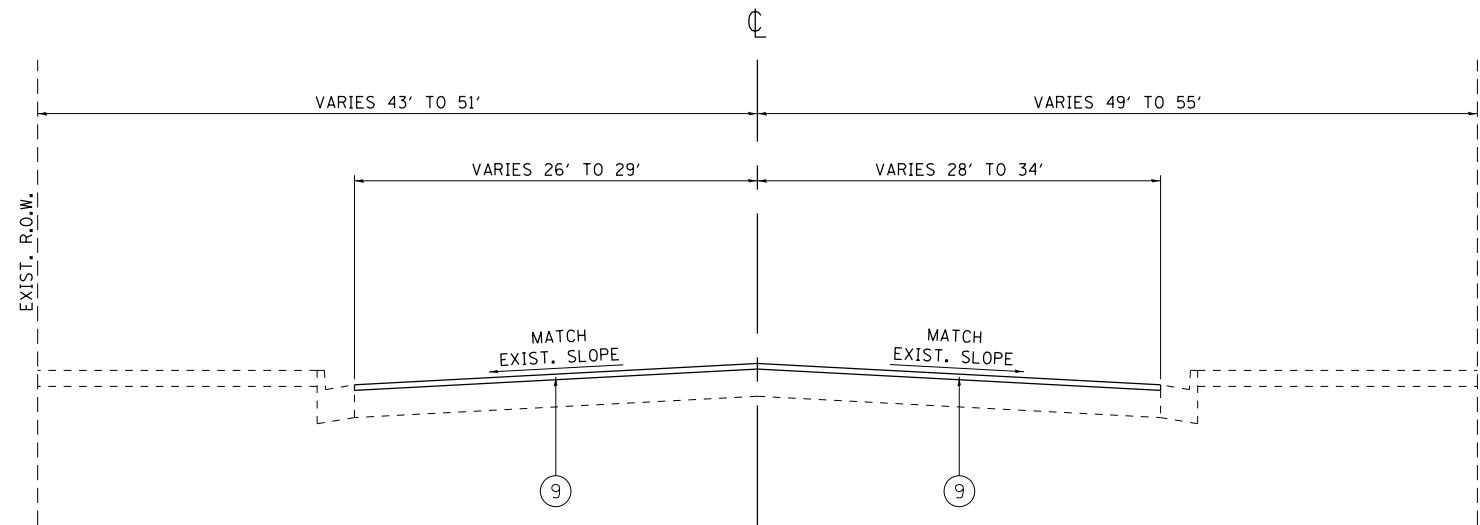
FILE NAME =	USER NAME = toriafm	DESIGNED -	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>TYPICAL SECTIONS U.S. ROUTE 12/20/45 AT U.S. ROUTE 34</b>	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
						330	91Y-N-2	COOK	128	23
						<b>CONTRACT NO. 62A47</b>				
Default	PLOT DATE = 11/2/2016	CHECKED -	REVISIED -	SCALE:	SHEET OF SHEETS	STA.	TO STA.	ILLINOIS FED. AID PROJECT		



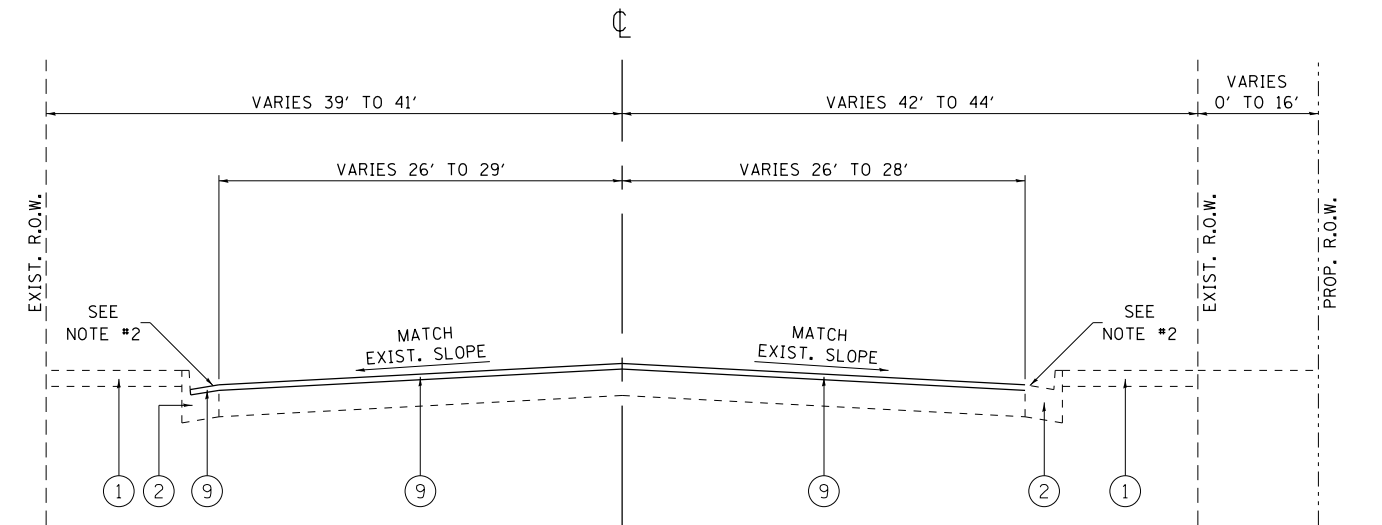
**US 12/20/45**  
**EXISTING TYPICAL SECTION**  
STA. 496+92 TO STA. 500+00



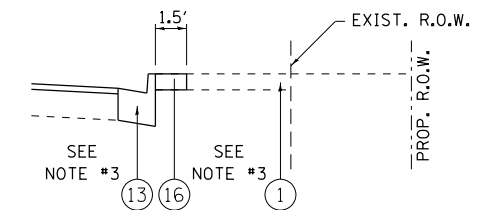
**US 12/20/45**  
**EXISTING TYPICAL SECTION**  
STA. 500+00 TO STA. 503+13



**US 12/20/45**  
**PROPOSED TYPICAL SECTION**  
STA. 496+92 TO STA. 500+00



**US 12/20/45**  
**PROPOSED TYPICAL SECTION**  
STA. 500+00 TO STA. 503+13



**PROPOSED TYPICAL SECTION**

AT LOCATIONS WHERE COMB. CONC. CURB AND GUTTER IS PROPOSED (APPLIES TO LOCATIONS ON LT AND RT SIDES)

**LEGEND:**

- |                                                                |                                                                 |
|----------------------------------------------------------------|-----------------------------------------------------------------|
| ① EXISTING CONCRETE SIDEWALK                                   | ⑦ PROPOSED HMA SURFACE REMOVAL, 2 1/2"                          |
| ② EXISTING COMB. CONC. CURB AND GUTTER OR EXISTING CURB        | ⑧ PROPOSED HMA SURFACE REMOVAL, 1 3/4"                          |
| ③ EXISTING HMA SURFACE COURSE, VARIES FROM ± 4" TO ± 7"        | ⑨ PROPOSED POLYMERIZED HMA SURFACE COURSE, MIX "E", N70, 1 3/4" |
| ④ EXISTING CONCRETE BASE COURSE, VARIES FROM ± 6 1/2" TO ± 10" | ⑩ PROPOSED POLYMERIZED LEVELING BINDER (MM), IL-4.75, N50, 3/4" |
| ⑤ EXISTING HMA SURFACE COURSE, ± 1 3/4"                        | ⑪ PROPOSED HMA BASE COURSE, 9"                                  |
| ⑥ EXISTING SOD                                                 | ⑫ PROPOSED AGGREGATE SUBGRADE IMPROVEMENT, 12"                  |

- |                                                     |
|-----------------------------------------------------|
| ⑬ PROPOSED COMB. CONC. CURB AND GUTTER, TYPE B-6.24 |
| ⑭ PROPOSED COMB. CONC. CURB AND GUTTER, TYPE B-6.12 |
| ⑮ PROPOSED SODDING, SALT TOLERANT AND TOPSOIL, 4"   |
| ⑯ PROPOSED PCC SIDEWALK, 5"                         |
| ⑰ PROPOSED HMA SURFACE REMOVAL, VARIABLE DEPTH      |
| ⑱ PROPOSED PIPE UNDERDRAINS, TYPE 2, 4"             |

R = TO BE REMOVED (SEE ROADWAY PLAN AND PROFILE SHEETS FOR LOCATIONS OF REMOVAL)

**NOTES:**

1. THE CONTRACTOR SHALL PATCH FIRST PRIOR TO MILLING BETWEEN STA. 496+92 AND STA. 503+13.
2. HMA OVERLAY ON THE GUTTER SHALL BE REMOVED AND REPLACED AT ALL EXISTING LOCATIONS (APPLIES TO LT. AND RT. SIDES) EXCEPT WHERE COMB. CONC. CURB AND GUTTER IS PROPOSED.
3. FOR LOCATIONS OF PROPOSED COMB. CONC. CURB AND GUTTER AND SIDEWALK SEE ROADWAY PLAN AND PROFILE SHEETS.

FILE NAME =	USER NAME = toriafm	DESIGNED -	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>TYPICAL SECTIONS U.S. ROUTE 12/20/45 AT U.S. ROUTE 34</b>	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
pw\ill084EBIDINTEG.illinois.gov\PIWIDOT\Documents\IDOT Offices\District 1\Projects\PI13812\Drawings\Design\PI13812-shr-typical.dgn	PLotted SCALE = 100.0000' / in.	CHECKED -	REVISED -			330	91Y-N-2	COOK	128	24	
Default	PLOT DATE = 11/2/2016	DATE -	REVISED -			CONTRACT NO. 62A47					
						ILLINOIS FED. AID PROJECT					

EARTHWORK SCHEDULE						
1		2	3	4	5	6
LOCATION		EARTH EXCAVATION (CU. YD.)	EMBANKMENT (CU. YD.)	EARTH EXCAVATION TO BE USED AS EMBANKMENT (ADJUSTED FOR SHRINKAGE - 15%) (CU. YD.)	EARTHWORK BALANCE SURPLUS (+) OR SHORTAGE (-) (CU. YD.)	REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL (CU. YD.)
US 34 (OGDEN AVE.)						
FROM	TO					
STATION 100+00.00	STATION 101+00.00	73	3	62	59	36
STATION 101+00.00	STATION 102+00.00	131	9	111	102	69
STATION 102+00.00	STATION 103+12.00	119	10	101	91	48
STATION 103+12.00	STATION 104+00.00	90	10	77	67	35
STATION 104+00.00	STATION 104+32.36	34	5	29	24	16
STATION 104+32.36	STATION 105+00.00	62	30	52	22	20
STATION 105+00.00	STATION 106+00.00	64	276	54	-222	74
STATION 106+00.00	STATION 106+30.00	25	201	21	-180	36
STATION 106+30.00	STATION 107+00.00	87	310	74	-236	65
STATION 107+00.00	STATION 108+00.00	123	19	105	86	64
STATION 108+00.00	STATION 109+00.00	95	11	80	69	43
STATION 109+00.00	STATION 109+85.00	31	1	27	26	11
TOTAL =		934	885	793	-92	517

COLUMN 1: LOCATION FROM PLANS

COLUMN 2: CUT QUANTITIES FROM CROSS SECTIONS, WHICH DOES NOT INCLUDE UNSUITABLE MATERIAL OR TOPSOIL

COLUMN 3: FILL QUANTITIES FROM CROSS SECTIONS

COLUMN 4: EARTH EXCAVATION THAT IS TO BE USED AS EMBANKMENT, ADJUSTED FOR SHRINKAGE (SHRINKAGE FACTOR = 15%)

COLUMN 5: COLUMN 4 - COLUMN 3

POSITIVE QUANTITY = EXTRA EXCAVATION

NEGATIVE QUANTITY = FURNISHED EXCAVATION NEEDED

COLUMN 6: CUT MATERIAL THAT IS DETERMINED TO BE EITHER UNSTABLE OR UNSUITABLE FOR USE IN EMBANKMENT (INCLUDES 9" TOPSOIL STRIPPING)

**NOTE: TOPSOIL SHALL BE STRIPPED IN AREAS THAT SHALL BE DISTURBED BY PROPOSED WORK TO A DEPTH OF 9" AND PAID FOR AS REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL.**

**BENCHMARK #1**

ELEV. = 646.53  
 SW BOLT OF 1ST HYDRANT  
 NORTH OF OGDEN AVE. ON  
 EAST SIDE OF LAGRANGE RD.

**BENCHMARK #2**

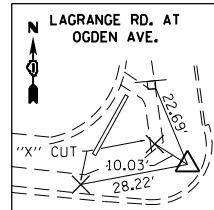
ELEV. = 643.36  
 NW TAG BOLT ON HYDRANT  
 ON THE NW CORNER OF  
 BREWSTER AND MADISON.

**BENCHMARK #3**

ELEV. = 640.55  
 NW CORNER OF THE 4TH STREET  
 LIGHT BASE OF RAILROAD BRIDGE  
 EAST OF LAGRANGE RD. ON THE  
 NORTH SIDE OF OGDEN AVE.

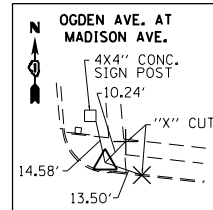
**BENCHMARK #4**

ELEV. = 645.88  
 ARROW BOLT ON HYDRANT ON THE  
 NE CORNER OF HILLGROVE AND  
 LAGRANGE RD.



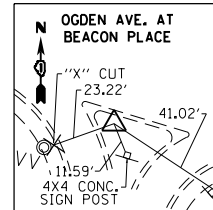
**CONTROL POINT #1**

"X" CUT IN CONC. SIDEWALK  
 STA. 500+47.37 34.05' LT  
 N=1876622.5500  
 E=1110565.1350  
 ELEV.=644.50



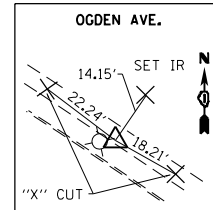
**CONTROL POINT #2**

"X" CUT IN CONC. SIDEWALK  
 STA. 96+44.35 23.30 LT  
 N=1876642.4740  
 E=1110254.5550  
 ELEV.=643.35



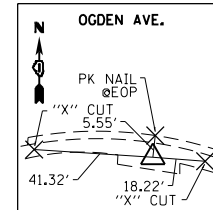
**CONTROL POINT #3**

"X" CUT IN CONC. MEDIAN  
 STA. 104+00.10 27.78 RT  
 N=1876497.6790  
 E=1110994.0460  
 ELEV.=645.04



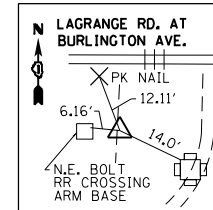
**CONTROL POINT #4**

"X" CUT IN CONC. SIDEWALK  
 STA. 107+55.71 28.17 LT  
 N=1876399.9770  
 E=1111338.7420  
 ELEV.=631.99



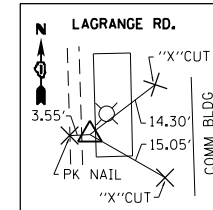
**CONTROL POINT #5**

"X" CUT IN CONC. SIDEWALK  
 STA. 111+40.96 40.86 RT  
 N=1876121.9980  
 E=1111614.7550  
 ELEV.=629.67



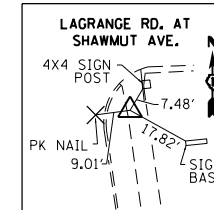
**CONTROL POINT #6**

"X" CUT IN CONCRETEE  
 STA. 493+18.66 47.66 LT  
 N=1875898.6690  
 E=1110589.3050  
 ELEV.=643.63



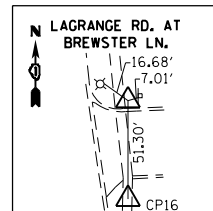
**CONTROL POINT #7**

"X" CUT IN CONC. SIDEWALK  
 STA. 496+25.12 32.15 RT  
 N=1876207.4700  
 E=1110659.5030  
 ELEV.=644.54



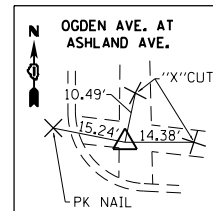
**CONTROL POINT #8**

"X" CUT IN CONC. SIDEWALK  
 STA. 504+24.76 35.46 RT  
 N=1877005.9800  
 E=1110580.7260  
 ELEV.=643.48



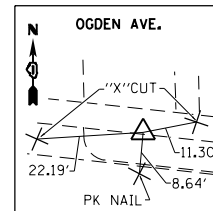
**CONTROL POINT #9**

"X" CUT IN CONC. SIDEWALK  
 STA. 507+31.16 41.40 RT  
 N=1877308.9470  
 E=1110548.9710  
 ELEV.=642.58



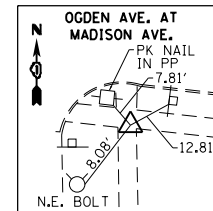
**CONTROL POINT #10**

"X" CUT IN CONC. SIDEWALK  
 STA. 92+97.96 29.57 LT  
 N=1876686.5490  
 E=1109910.9230  
 ELEV.=642.42



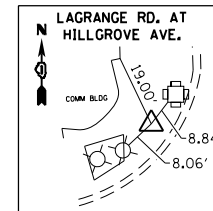
**CONTROL POINT #11**

"X" CUT IN CONC. SIDEWALK  
 STA. 94+49.29 27.23 LT  
 N=1876667.6930  
 E=1110061.0950  
 ELEV.=643.10



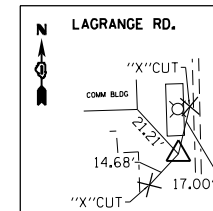
**CONTROL POINT #12**

"X" CUT IN CONC. SIDEWALK  
 STA. 96+59.64 30.94 RT  
 N=1876586.8920  
 E=1110263.8280  
 ELEV.=643.79



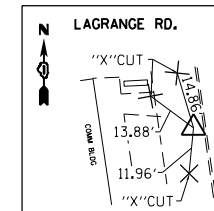
**CONTROL POINT #13**

"X" CUT IN CONC. SIDEWALK  
 STA. 494+57.61 42.08 LT  
 N=1876037.7190  
 E=1110590.5500  
 ELEV.=643.57



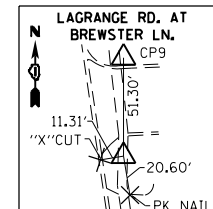
**CONTROL POINT #14**

"X" CUT IN CONC. SIDEWALK  
 STA. 498+62.14 35.85 LT  
 N=1876441.3110  
 E=1110583.6680  
 ELEV.=645.43



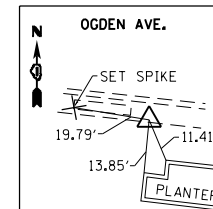
**CONTROL POINT #15**

"X" CUT IN CONC. SIDEWALK  
 STA. 503+40.78 31.39 LT  
 N=1876913.3990  
 E=1110526.3660  
 ELEV.=643.12



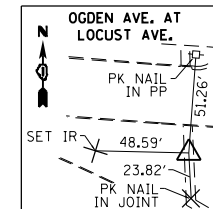
**CONTROL POINT #16**

"X" CUT IN CONC. SIDEWALK  
 STA. 506+80.10 36.50 RT  
 N=1877257.6520  
 E=1110549.0240  
 ELEV.=642.25



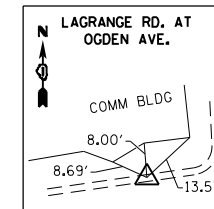
**CONTROL POINT #17**

"X" CUT IN CONC. SIDEWALK  
 STA. 101+52.92 31.43 RT  
 N=1876532.5060  
 E=1110754.1030  
 ELEV.=645.45



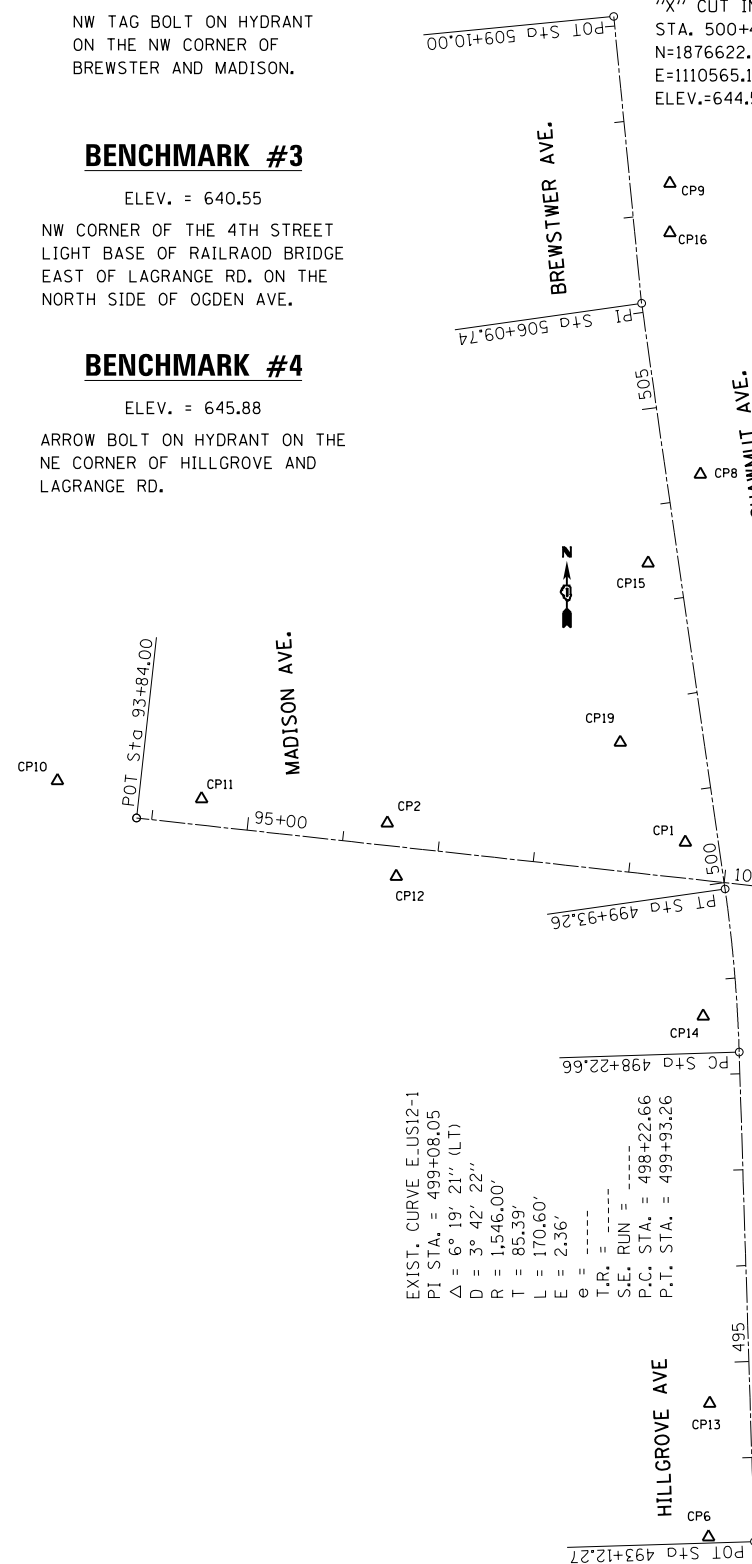
**CONTROL POINT #18**

"X" CUT IN CONC. SIDEWALK  
 STA. 106+21.58 52.78 LT  
 N=1876492.1160  
 E=1111231.5790  
 ELEV.=633.95



**CONTROL POINT #19**

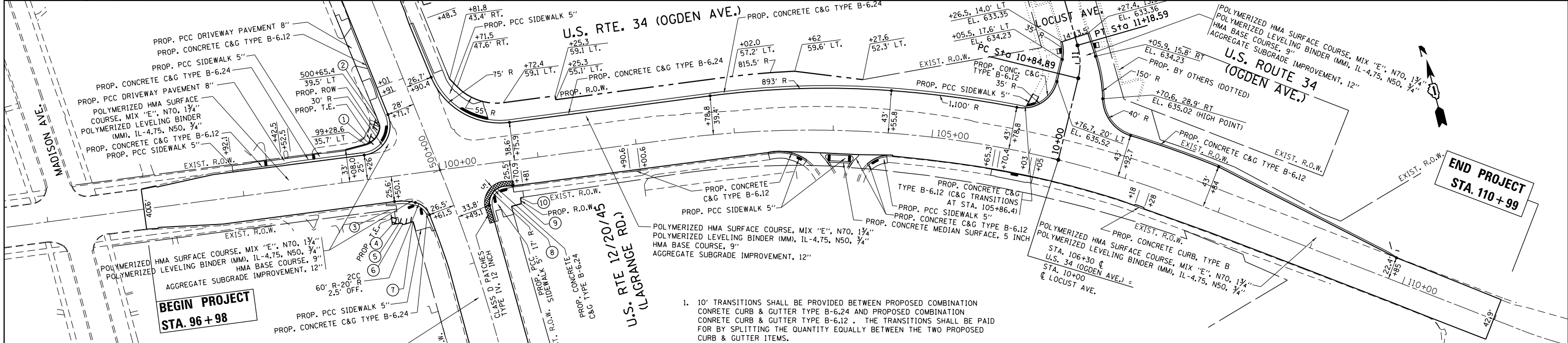
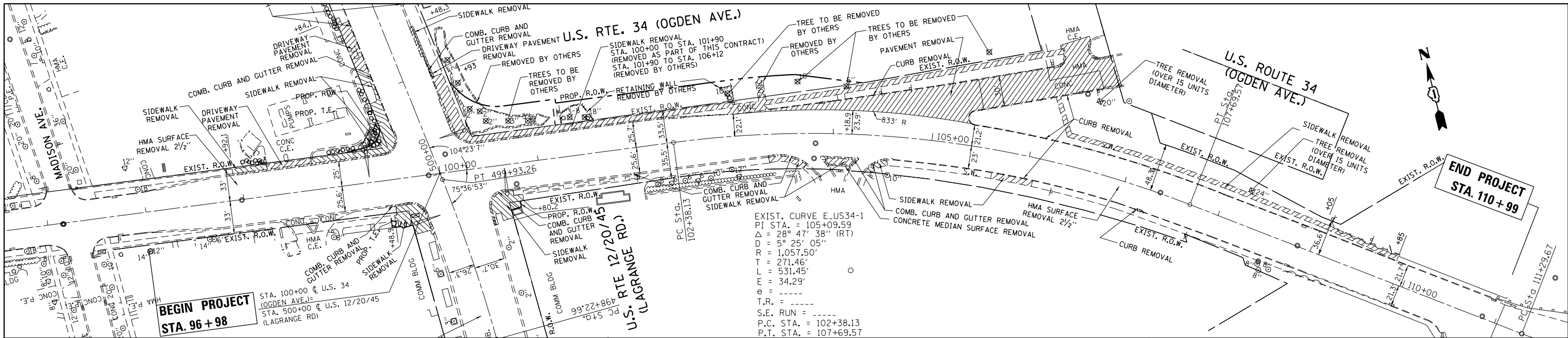
"X" CUT IN BACK OF CURB  
 STA. 501+59.85 86.51 LT  
 N=1876726.5010  
 E=1110497.3260  
 ELEV.=644.00



EXIST. CURVE E\_US341  
 PI STA. = 105+09.59  
 $\Delta = 28^\circ 47' 38''$  (RT)  
 $D = 5^\circ 25' 05''$   
 $R = 1,057.50'$   
 $T = 271.46'$   
 $L = 531.45'$   
 $E = 34.29'$   
 $\theta = \dots$   
 T.R. = \dots  
 S.E. RUN = \dots  
 P.C. STA. = 102+38.13  
 P.T. STA. = 107+69.57

EXIST. CURVE E\_US342  
 PI STA. = 113+74.55  
 $\Delta = 62^\circ 57' 01''$  (LT)  
 $D = 14^\circ 19' 26''$   
 $R = 400.00'$   
 $T = 244.88'$   
 $L = 439.48'$   
 $E = 69.01'$   
 $\theta = \dots$   
 T.R. = \dots  
 S.E. RUN = \dots  
 P.C. STA. = 111+29.67  
 P.T. STA. = 115+69.14

ROUTE	POINT	NORTHING	EASTING	STATION
US ROUTE 12/20/45 (LAGRANGE RD.) CURVE US 12-1	PC	1876403.9103	1110621.2002	498+22.66
	PI	1876489.2548	1110618.5327	499+08.05
	PT	1876573.7865	1110606.4828	499+93.26
US ROUTE 12/20/45 (LAGRANGE RD.)	A10	1875893.7685	1110637.1452	493+12.27
	A11	1877184.0953	1110519.4843	506+09.74
US ROUTE 34 (OGDEN AVE.) CURVE US 34-1	PC	1876554.4393	1110842.2333	102+38.13
	PI	1876524.7802	1111112.0688	105+09.59
US ROUTE 34 (OGDEN AVE.)	PT	1876368.8188	1111334.2555	107+69.57
	A15	1876647.7591	1109993.2197	93+84.00
	A16	1876298.5788	1112353.5730	119+72.76



1. 10' TRANSITIONS SHALL BE PROVIDED BETWEEN PROPOSED COMBINATION CONCRETE CURB & GUTTER TYPE B-6.24 AND PROPOSED COMBINATION CONCRETE CURB & GUTTER TYPE B-6.12. THE TRANSITIONS SHALL BE PAID FOR BY SPLITTING THE QUANTITY EQUALLY BETWEEN THE TWO PROPOSED CURB & GUTTER ITEMS.

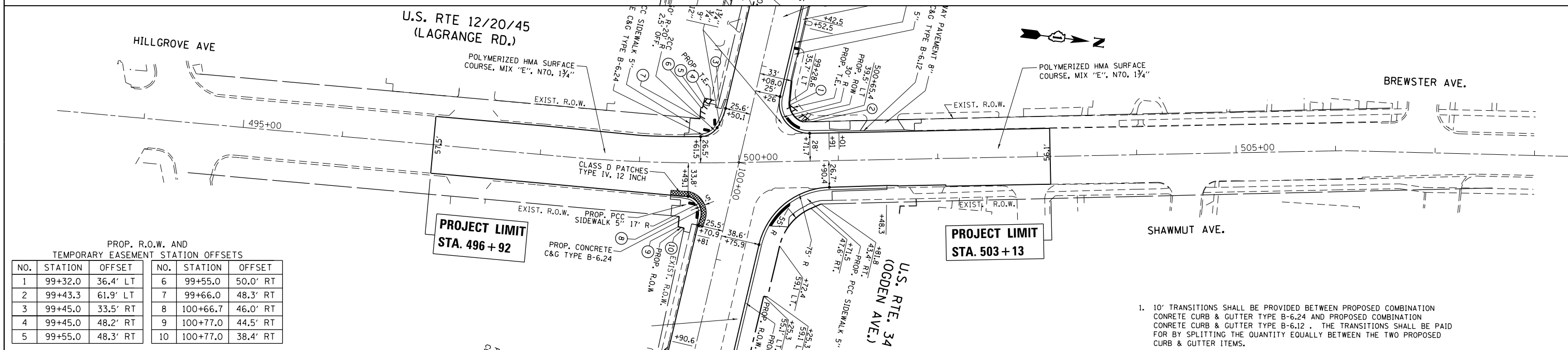
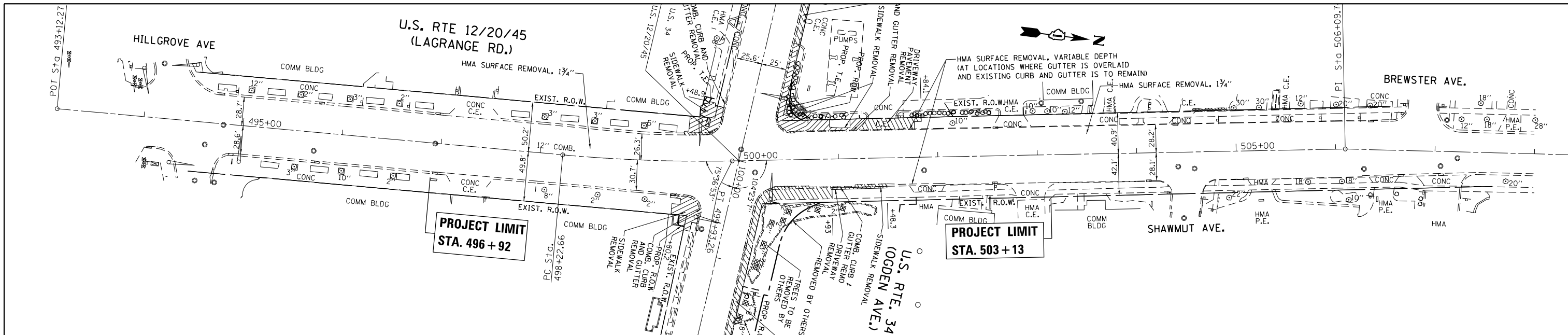
EXIST. AND PROP. $\phi$ PROFILE U.S. RTE. 34		PROP. R.O.W. AND TEMPORARY EASEMENT STATION OFFSETS													
645		NO.	STATION	OFFSET	NO.	STATION	OFFSET	NO.	STATION	OFFSET	NO.	STATION	OFFSET	645	
640		1	99+32.0	36.4' LT	5	99+55.0	48.3' RT	9	100+77.0	44.5' RT	10	100+77.0	38.4' RT	640	
635		2	99+43.3	61.9' LT	6	99+55.0	50.0' RT							635	
630		3	99+45.0	33.5' RT	7	99+66.0	48.3' RT							630	
625		4	99+45.0	48.2' RT	8	100+66.7	46.0' RT							625	
643.34	643.63	644.25	644.65	644.91	645.06	645.84	645.88	644.66	641.94	638.34	633.93	629.98	626.41	625.09	627.21
96+00	97+00	98+00	99+00	100+00	101+00	102+00	103+00	104+00	105+00	106+00	107+00	108+00	109+00	110+00	111+00

DATE	BY	SURVEYED	PLANNED
DATE	BY	NOTED	PLANNED

DATE	BY	SURVEYED	PLANNED
DATE	BY	NOTED	PLANNED

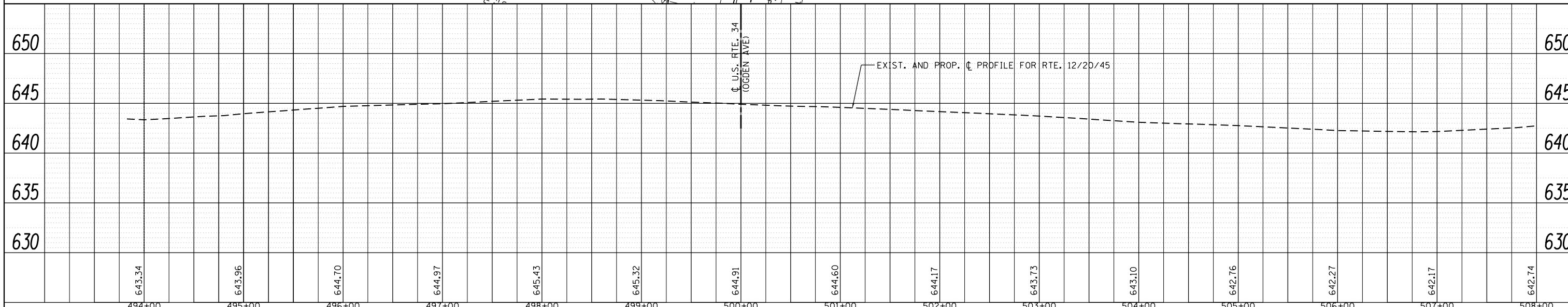
DATE	
BY	
SURVEYED	
PLOTTED	
NOTE BOOK	
NO.	
CHECKED	
FILE NAME	

DATE	
BY	
SURVEYED	
PLOTTED	
NOTE BOOK	
NO.	
CHECKED	
FILE NAME	



PROP. R.O.W. AND TEMPORARY EASEMENT STATION OFFSETS

NO.	STATION	OFFSET	NO.	STATION	OFFSET
1	99+32.0	36.4' LT	6	99+55.0	50.0' RT
2	99+43.3	61.9' LT	7	99+66.0	48.3' RT
3	99+45.0	33.5' RT	8	100+66.7	46.0' RT
4	99+45.0	48.2' RT	9	100+77.0	44.5' RT
5	99+55.0	48.3' RT	10	100+77.0	38.4' RT



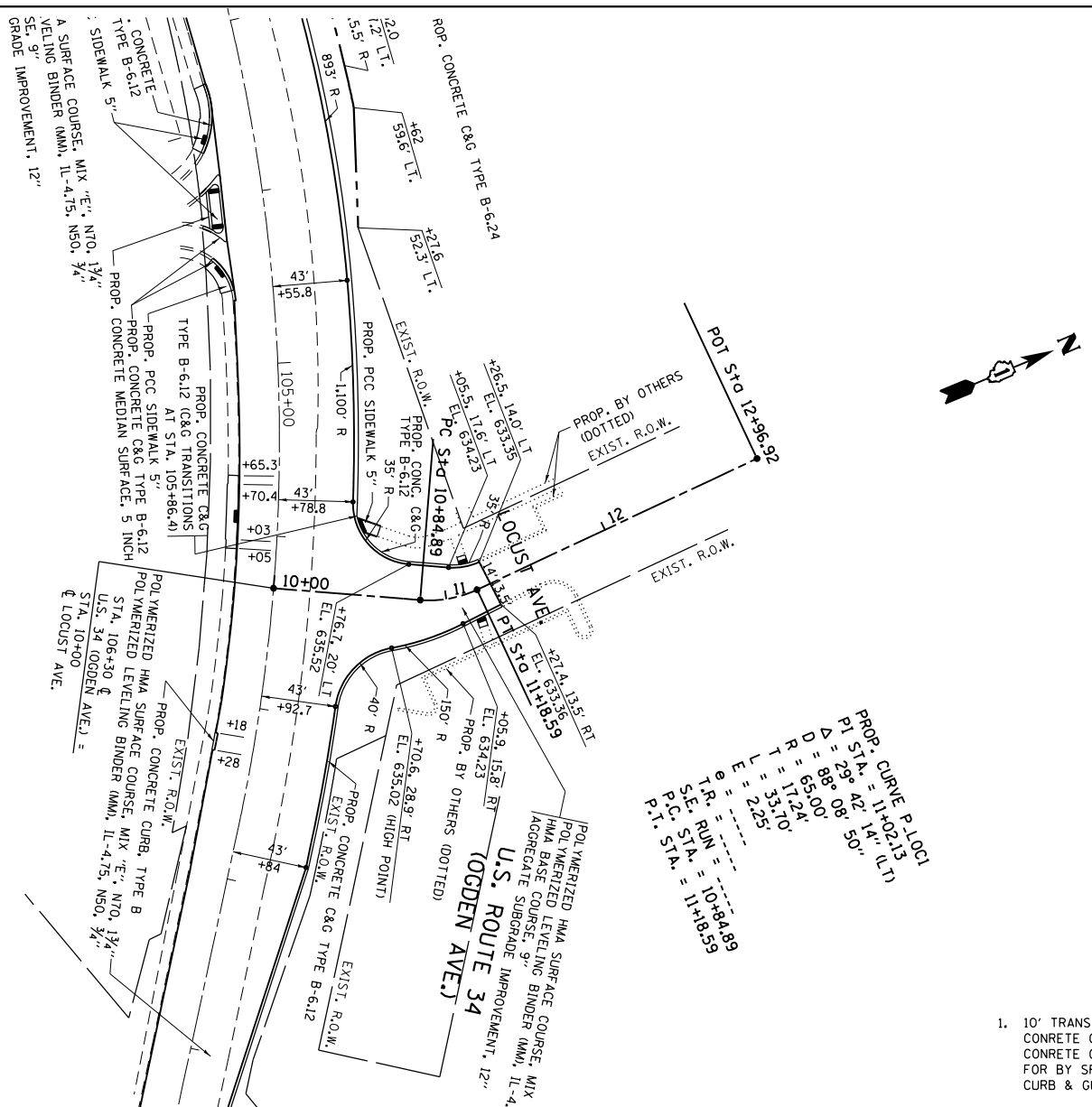
1. 10' TRANSITIONS SHALL BE PROVIDED BETWEEN PROPOSED COMBINATION CONCRETE CURB & GUTTER TYPE B-6.24 AND PROPOSED COMBINATION CONCRETE CURB & GUTTER TYPE B-6.12. THE TRANSITIONS SHALL BE PAID FOR BY SPLITTING THE QUANTITY EQUALLY BETWEEN THE TWO PROPOSED CURB & GUTTER ITEMS.

FILE NAME =	USER NAME =	DESIGNED -	REVISED -	<b>STATE OF ILLINOIS</b> <b>DEPARTMENT OF TRANSPORTATION</b>	<b>ROADWAY PLAN &amp; PROFILE</b> <b>U.S. ROUTE 12/20/45 AT U.S. ROUTE 34</b>		F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
					330	91Y-N-2	COOK	128	28		
					CONTRACT NO. 62A47						
					ILLINOIS FED. AID PROJECT						

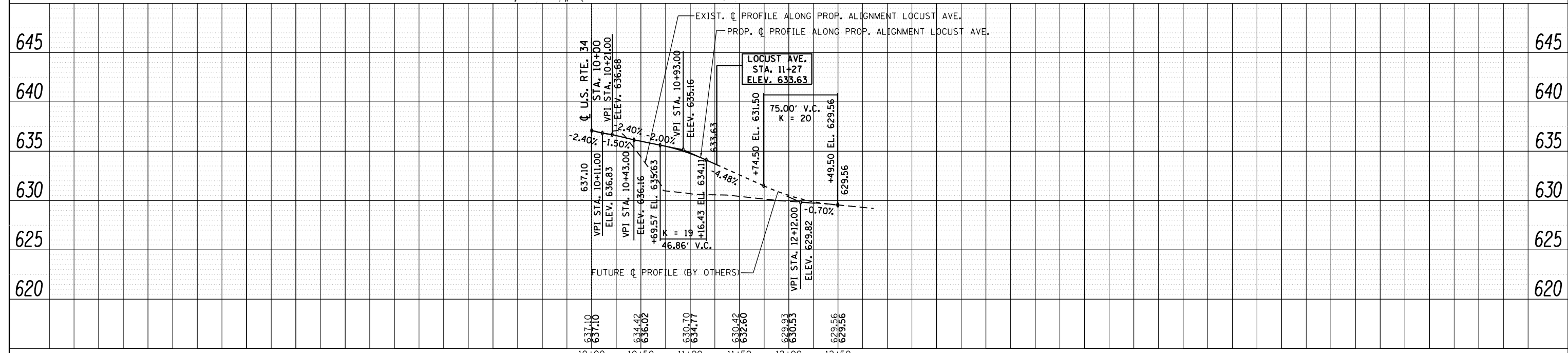


PLAN	SURVEYED	DATE
NO. _____	BY _____	
NOTE BOOK	CHECKED	
NO. _____	FILE NAME	

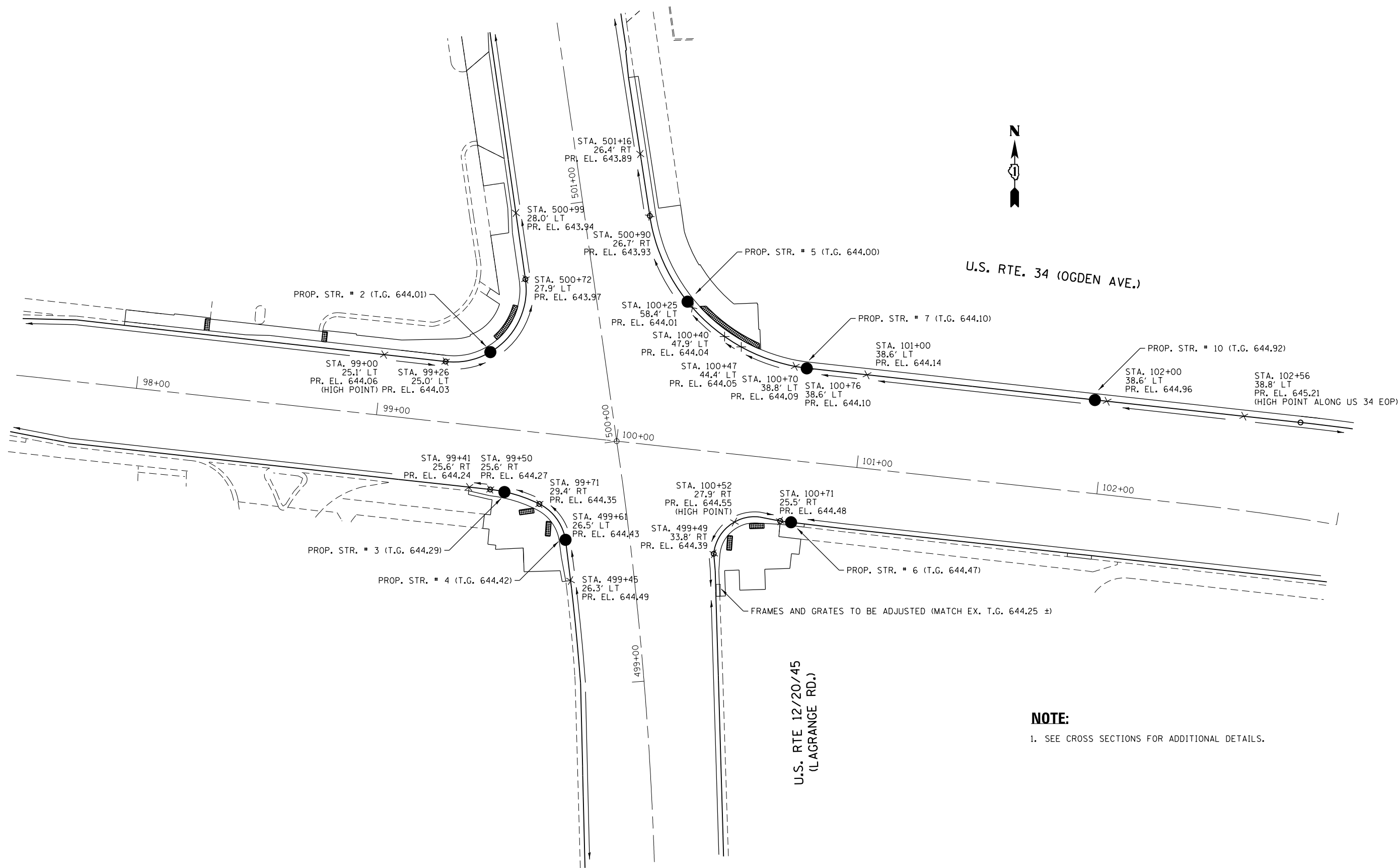
PROFILE	SURVEYED	DATE
NO. _____	BY _____	
NOTE BOOK	CHECKED	
NO. _____	FILE NAME	



1. 10' TRANSITIONS SHALL BE PROVIDED BETWEEN PROPOSED COMBINATION CONCRETE CURB & GUTTER TYPE B-6.24 AND PROPOSED COMBINATION CONCRETE CURB & GUTTER TYPE B-6.12. THE TRANSITIONS SHALL BE PAID FOR BY SPLITTING THE QUANTITY EQUALLY BETWEEN THE TWO PROPOSED CURB & GUTTER ITEMS.



FILE NAME =	USER NAME = toriafm	DESIGNED -	REVISED -	<b>STATE OF ILLINOIS</b> <b>DEPARTMENT OF TRANSPORTATION</b>	<b>ROADWAY PLAN &amp; PROFILE</b> <b>LOCUST AVE.</b>	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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Default	PLOT DATE = 11/2/2016	DATE -	REVISED -			CONTRACT NO. 62A47				
						ILLINOIS FED. AID PROJECT				



FILE NAME =	USER NAME = tar1qfm	DESIGNED -	REVISED -
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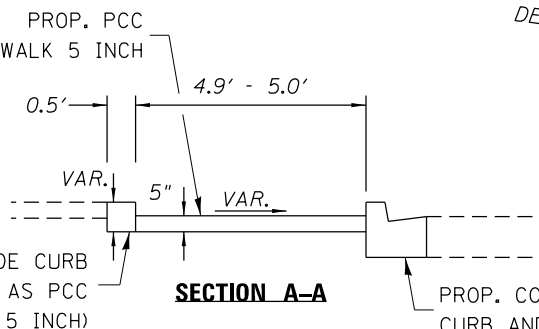
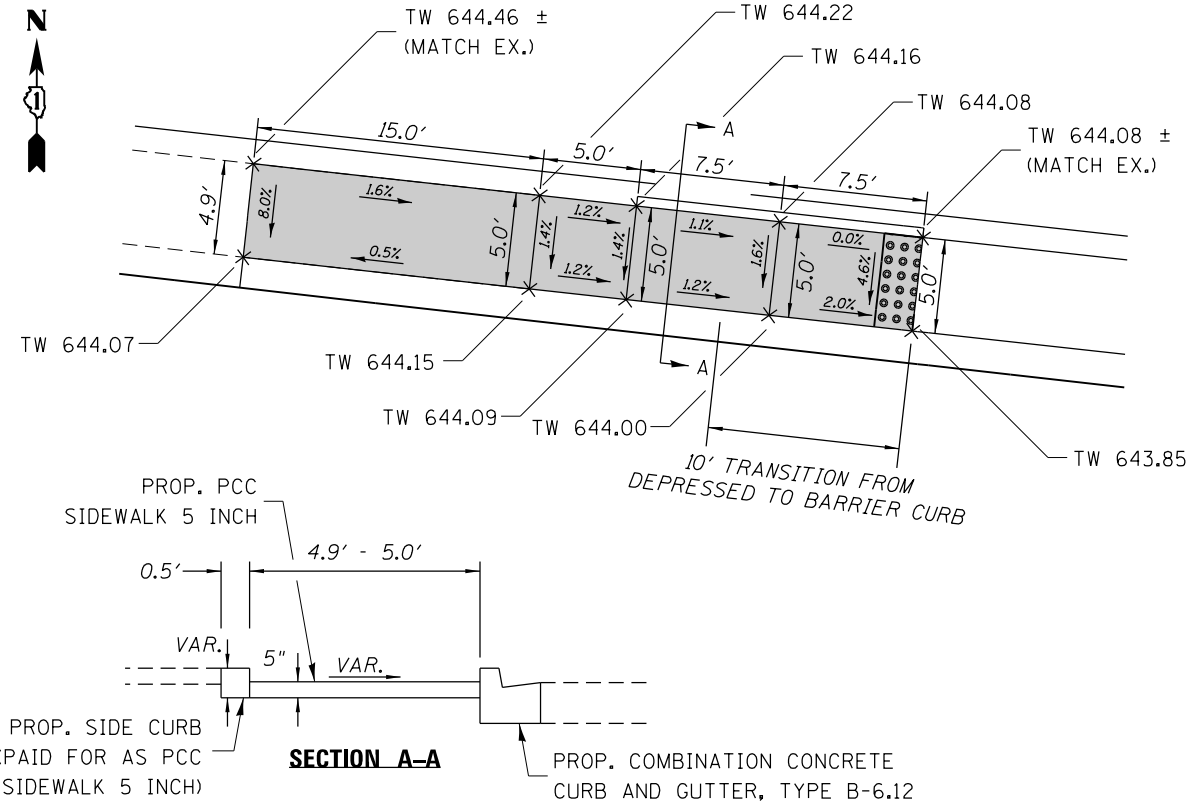
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

U.S. ROUTE 12/20/45 AT U.S. ROUTE 34 INTERSECTION DETAIL  
U.S. ROUTE 12/20/45 AT U.S. ROUTE 34

SCALE: 1:20 SHEET OF SHEETS STA. TO STA.

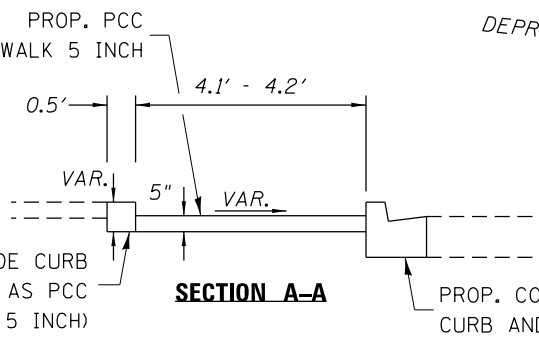
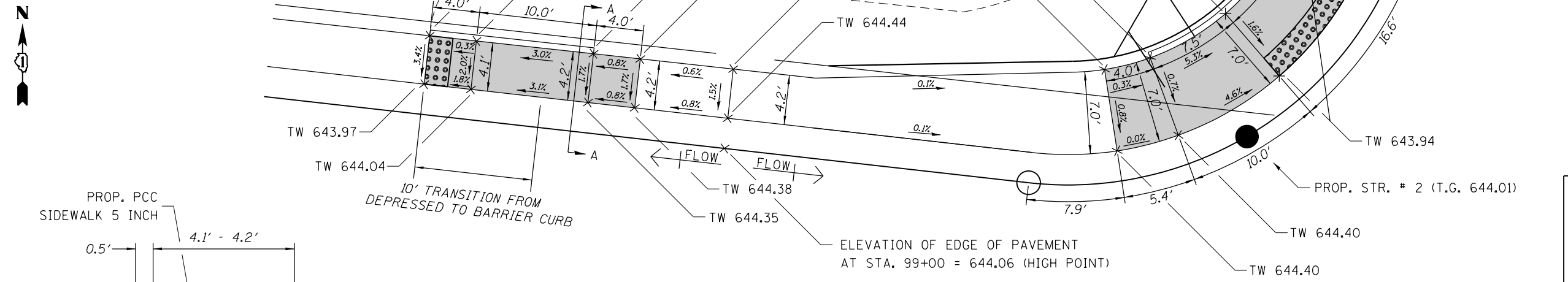
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
330	91Y-N-2	COOK	128	30
CONTRACT NO. 62A47				
ILLINOIS FED. AID PROJECT				

US 34  
STA. 98+27, LT. SIDE



US 34  
STA. 98+74, LT. SIDE

US 12/20/45 AT US 34  
(NORTHWEST CORNER)



NOTE: THE SECTION OF PROP. SIDEWALK AROUND THE EXISTING LIGHT POLE SHALL BE CONSTRUCTED USING THE EXISTING BRICK PAVERS.

NOTE: THIS SECTION OF PROP. SIDEWALK LEADING TO THE PROP. SIDEWALK ALONG THE ROADWAY SHALL BE CONSTRUCTED USING THE EXISTING BRICK PAVERS.

MANHOLES TO BE ADJUSTED

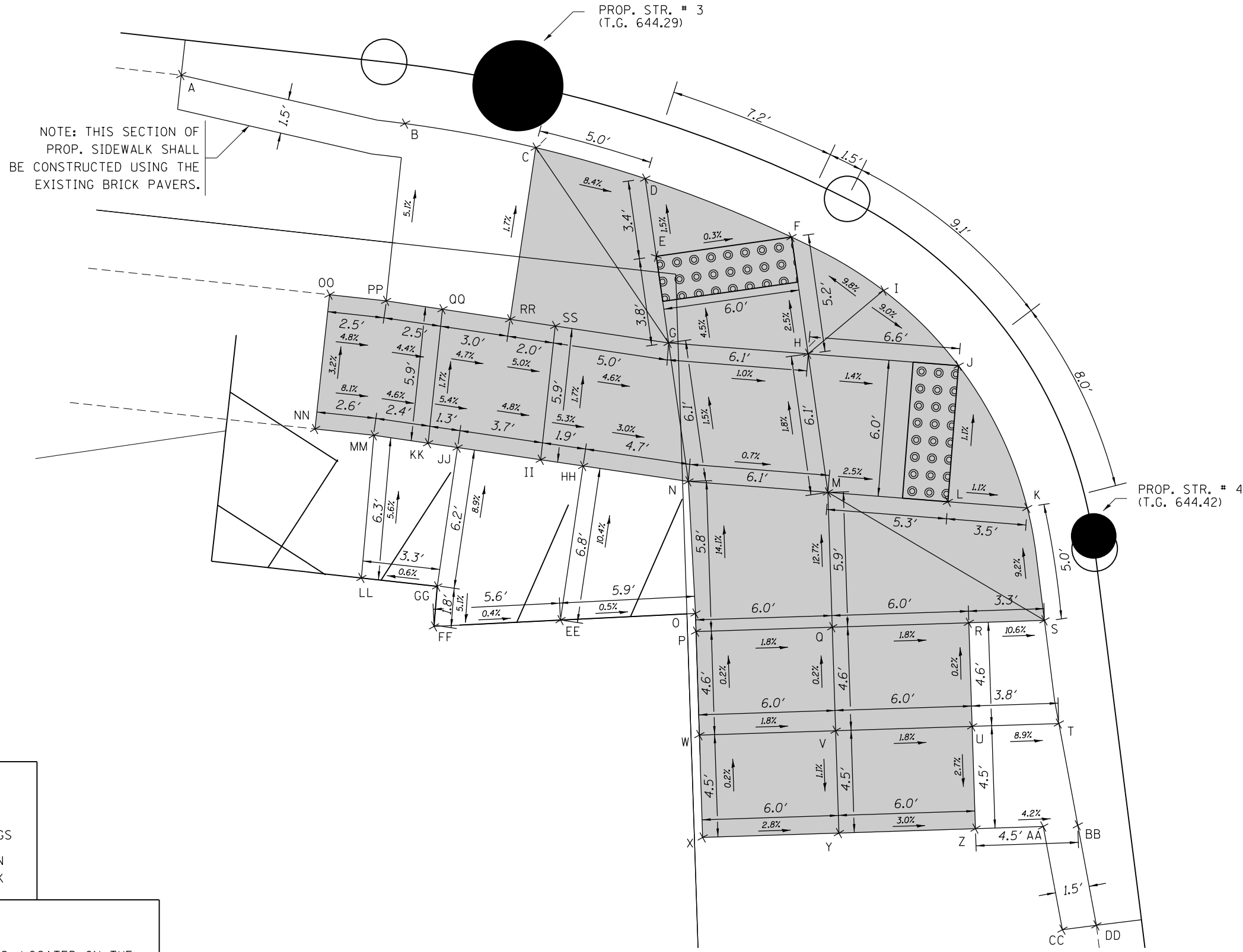
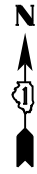
ELEVATION OF EDGE OF PAVEMENT AT STA. 99+00 = 644.06 (HIGH POINT)

**LEGEND:**

	PROPOSED DETECTABLE WARNINGS
TW	PROPOSED ELEVATION OF TOP OF SIDEWALK

**NOTE:**  
REFERENCE BM ELEVATION 645.88, LOCATED ON THE ARROW BOLT ON THE FIRE HYDRANT AT THE NE CORNER OF HILLGROVE AVENUE AND LA GRANGE ROAD.

US 12/20/45 AT US 34  
(SOUTHWEST CORNER)



POINT	ELEVATION
A	TW 644.85 ± (MATCH EX.)
B	TW 644.66
C	TW 644.68
D	TW 644.26
E	TW 644.31
F	TW 644.29
G	TW 644.48
H	TW 644.42
I	TW 644.75
J	TW 644.33
K	TW 644.36
L	TW 644.40
M	TW 644.53
N	TW 644.57
O	TW 645.39 ± (MATCH EX.)
P	TW 645.39 ± (MATCH EX.)
Q	TW 645.28
R	TW 645.17
S	TW 644.82
T	TW 644.84
U	TW 645.18
V	TW 645.29
W	TW 645.40 ± (MATCH EX.)
X	TW 645.41 ± (MATCH EX.)
Y	TW 645.24 ± (MATCH EX.)
Z	TW 645.06 ± (MATCH EX.)
AA	TW 644.97 ± (MATCH EX.)
BB	TW 644.87
CC	TW 645.01 ± (MATCH EX.)
DD	TW 644.93 ± (MATCH EX.)
EE	TW 645.42 ± (MATCH EX.)
FF	TW 645+44 ± (MATCH EX.)
GG	TW 645.53 ± (MATCH EX.)
HH	TW 644.71
II	TW 644.81
JJ	TW 644.98
KK	TW 645.05
LL	TW 645.51 ± (MATCH EX.)
MM	TW 645.16
NN	TW 645.37 ± (MATCH EX.)
OO	TW 645.18 ± (MATCH EX.)
PP	TW 645.06
QQ	TW 644.95
RR	TW 644.81
SS	TW 644.71

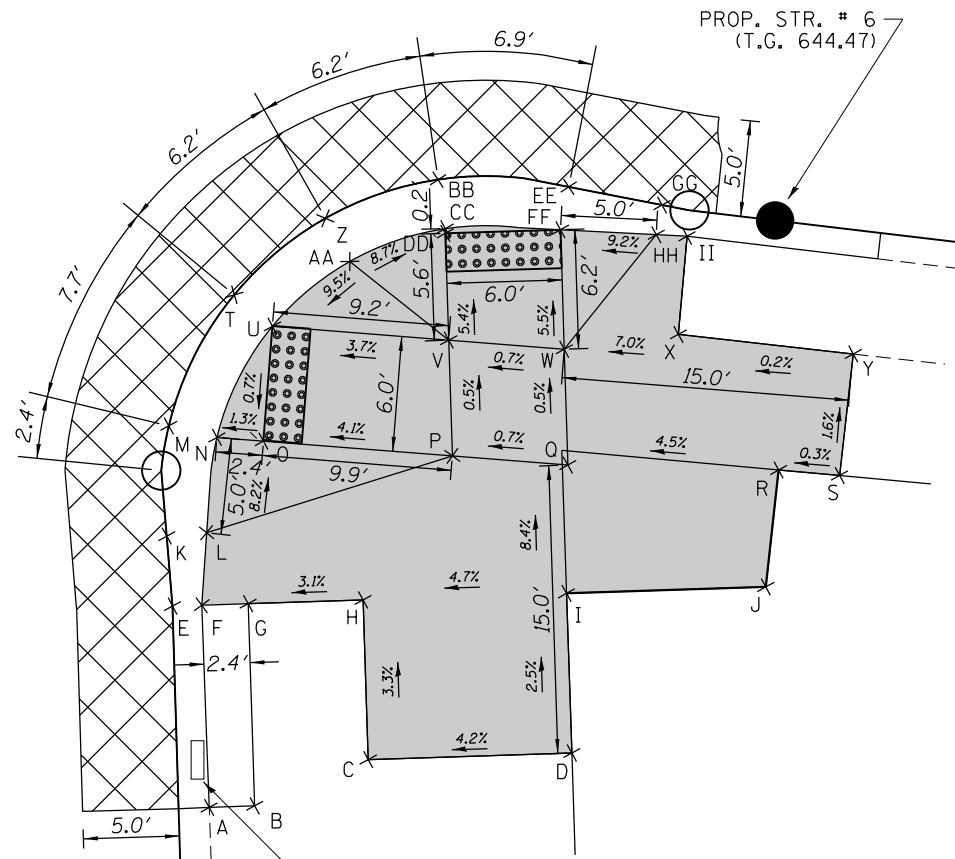
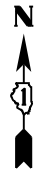
**LEGEND:**

- PROPOSED DETECTABLE WARNINGS
- TW PROPOSED ELEVATION OF TOP OF SIDEWALK

**NOTE:**

REFERENCE BM ELEVATION 645.88, LOCATED ON THE ARROW BOLT ON THE FIRE HYDRANT AT THE NE CORNER OF HILLGROVE AVENUE AND LA GRANGE ROAD.

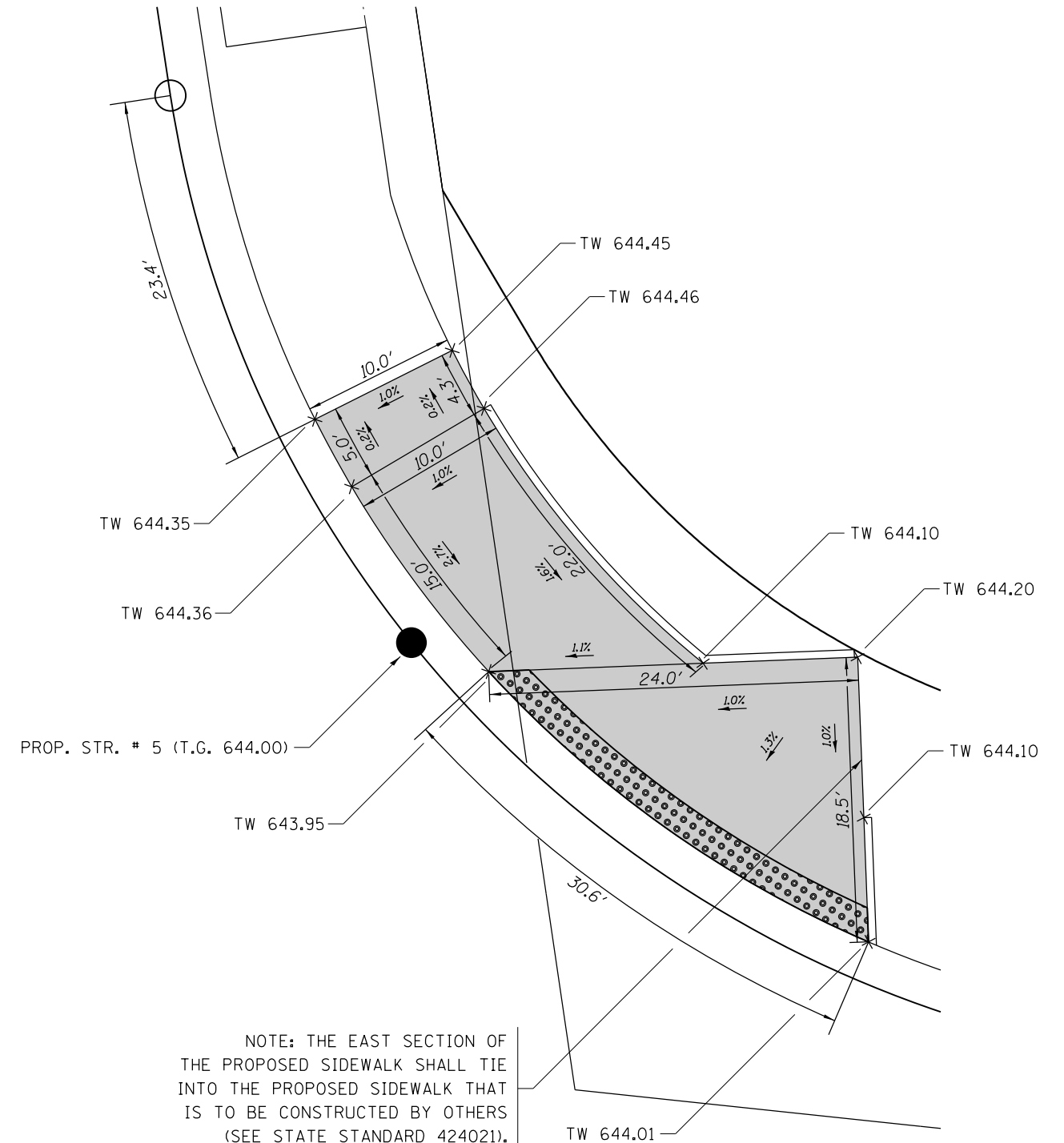
US 12/20/45 AT US 34  
(SOUTHEAST CORNER)



FRAMES AND GRATES  
TO BE ADJUSTED  
(MATCH EX. 644.25 ±)

POINT	ELEVATION
A	TW 644.74 ± (MATCH EX.)
B	TW 644.88 ± (MATCH EX.)
C	TW 645.17 ± (MATCH EX.)
D	TW 645.61 ± (MATCH EX.)
E	PEOP EL 644.33
F	TW 644.77
G	TW 644.71 ± (MATCH EX.)
H	TW 644.90 ± (MATCH EX.)
I	TW 645.40 ± (MATCH EX.)
J	TW 645.44 ± (MATCH EX.)
K	PEOP EL 644.36
L	TW 644.77
M	PEOP EL 644.42
N	TW 644.36
O	TW 644.39
P	TW 644.80
Q	TW 644.84
R	TW 645.34 ± (MATCH EX.)
S	TW 645.35 ± (MATCH EX.)
T	PEOP EL 644.49
U	TW 644.43
V	TW 644.77
W	TW 644.81
X	TW 645.23 ± (MATCH EX.)
Y	TW 645.25 ± (MATCH EX.)
Z	PEOP EL 644.55 (HIGH PT.)
AA	TW 644.93
BB	PEOP EL 644.53
CC	TW 644.47
DD	TW 644.47
EE	PEOP EL 644.51
FF	TW 644.47
GG	PEOP EL 644.49
HH	TW 644.93
II	TW 644.95 ± (MATCH EX.)

US 12/20/45 AT US 34  
(NORTHEAST CORNER)



NOTE: THE EAST SECTION OF  
THE PROPOSED SIDEWALK SHALL TIE  
INTO THE PROPOSED SIDEWALK THAT  
IS TO BE CONSTRUCTED BY OTHERS  
(SEE STATE STANDARD 424021).

**LEGEND:**

- PROPOSED DETECTABLE WARNINGS
- CLASS D PATCHES TYPE IV, 12 INCH
- TW PROPOSED ELEVATION OF TOP OF SIDEWALK
- PEOP EL PROPOSED EDGE OF PAVEMENT ELEVATION

**NOTE:**

REFERENCE BM ELEVATION 645.88, LOCATED ON THE  
ARROW BOLT ON THE FIRE HYDRANT AT THE NE  
CORNER OF HILLGROVE AVENUE AND LA GRANGE ROAD.

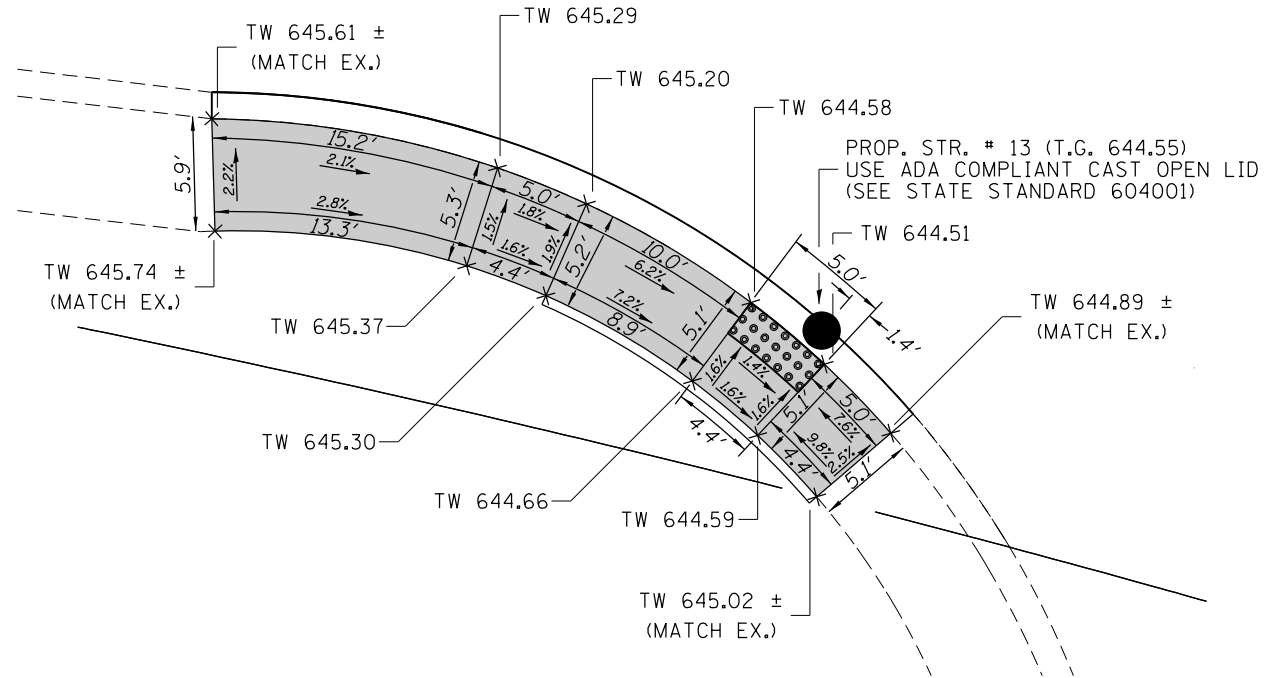
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Default	PLOT SCALE = 10.0000' / in.	CHECKED -	REVISED -
	PLOT DATE = 11/2/2016	DATE -	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

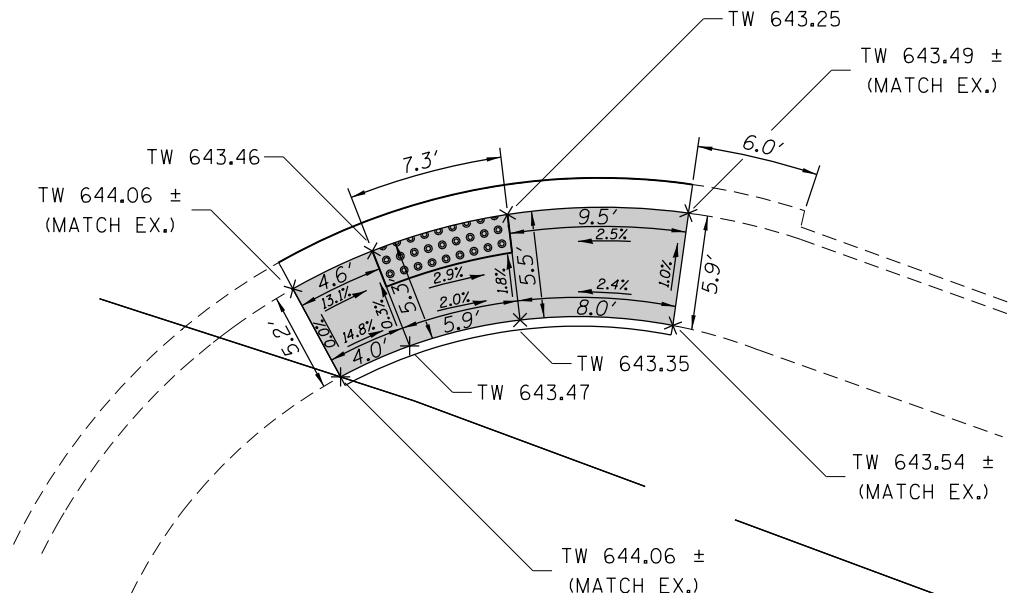
<b>SIDEWALK DETAIL PLANS</b>			
<b>U.S. ROUTE 1220/45 AT U.S. ROUTE 74</b>			
SCALE: 1:5	SHEET	OF SHEETS	STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
330	91Y-N-2	COOK	128	33
CONTRACT NO. 62A47				
ILLINOIS FED. AID PROJECT				

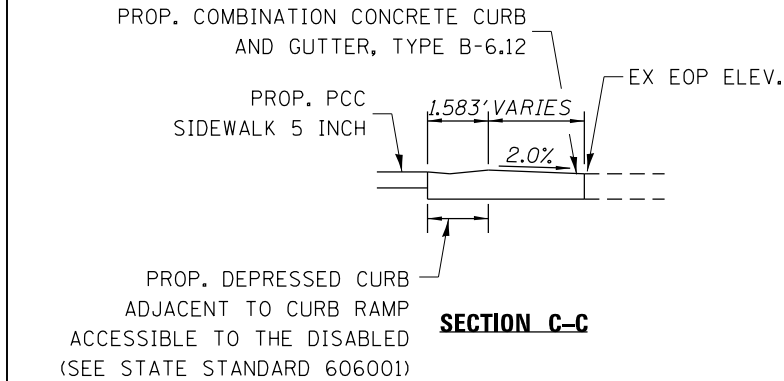
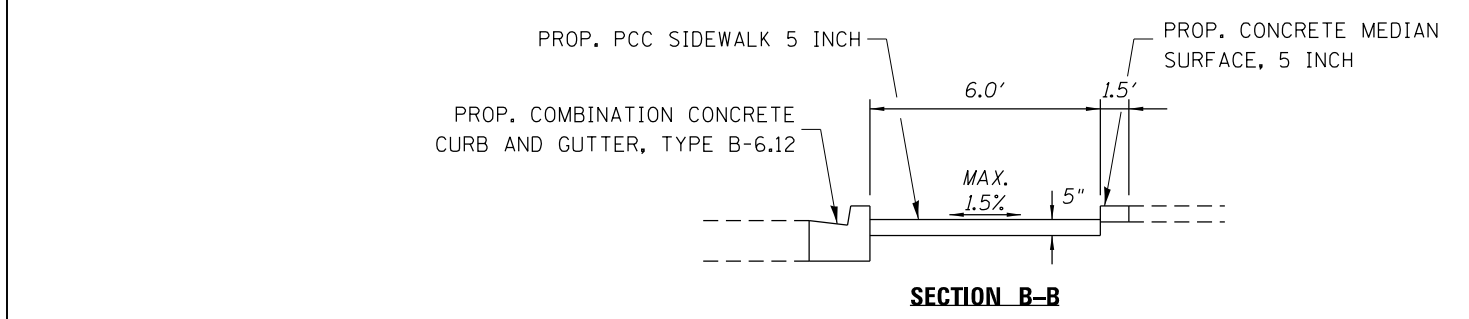
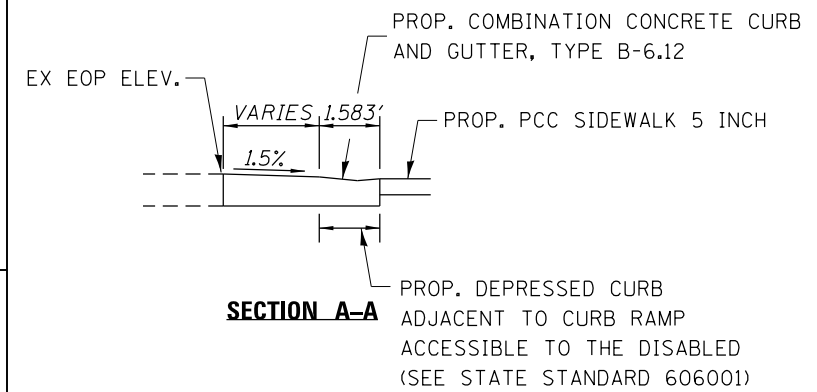
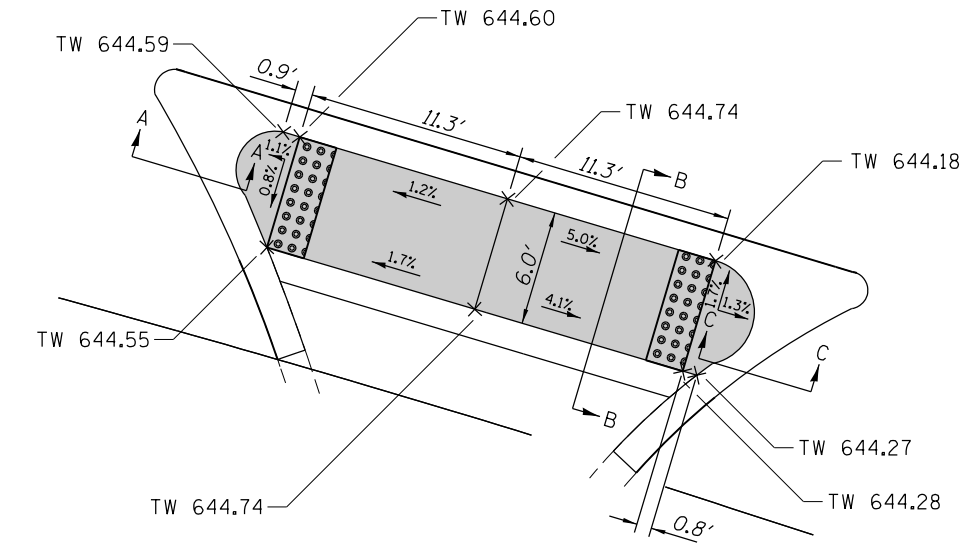
US 34  
STA. 103+66, RT. SIDE



US 34  
STA. 104+42, RT. SIDE



US 34  
STA. 104+07, RT. SIDE



**LEGEND:**

	PROPOSED DETECTABLE WARNINGS
TW	PROPOSED ELEVATION OF TOP OF SIDEWALK

**NOTE:**  
REFERENCE BM ELEVATION 645.88, LOCATED ON THE ARROW BOLT ON THE FIRE HYDRANT AT THE NE CORNER OF HILLGROVE AVENUE AND LA GRANGE ROAD.

FILE NAME =	USER NAME = toriafm	DESIGNED -	REVISED -
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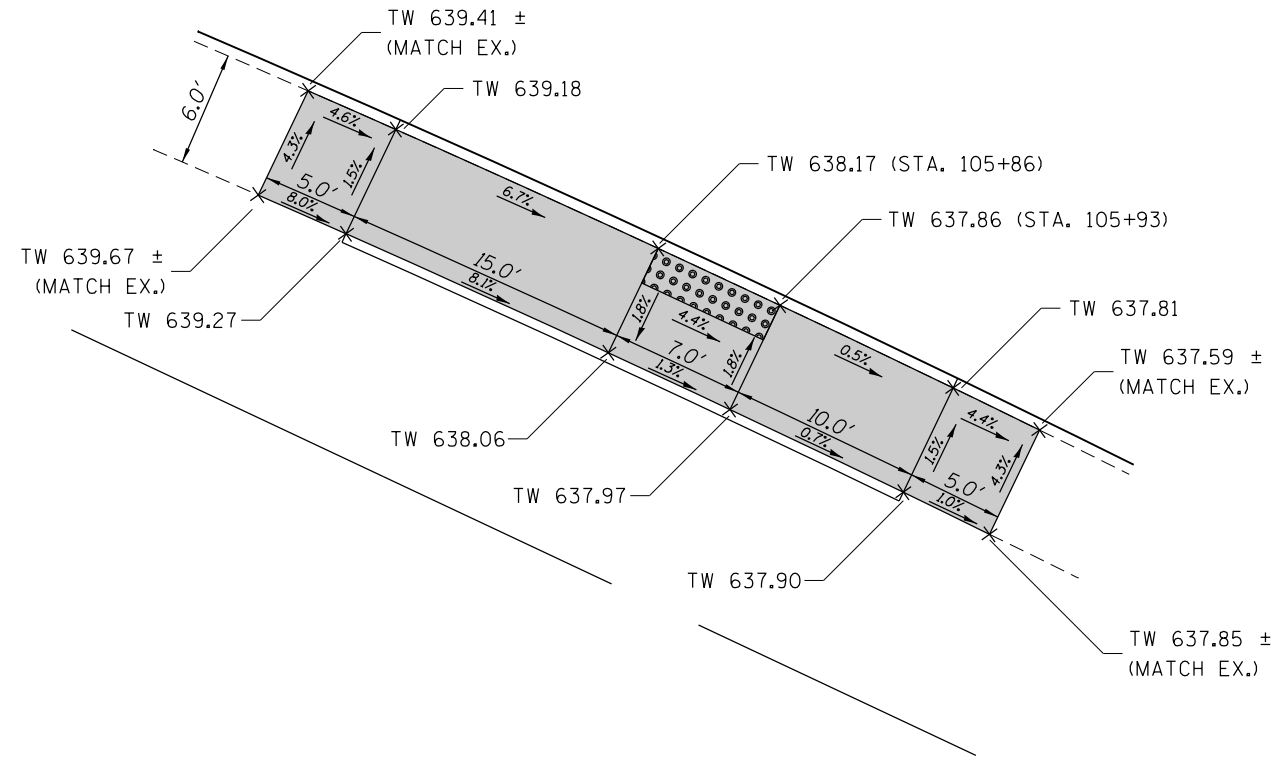
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**SIDEWALK DETAIL PLANS  
U.S. ROUTE 1220/45 AT U.S. ROUTE 34**

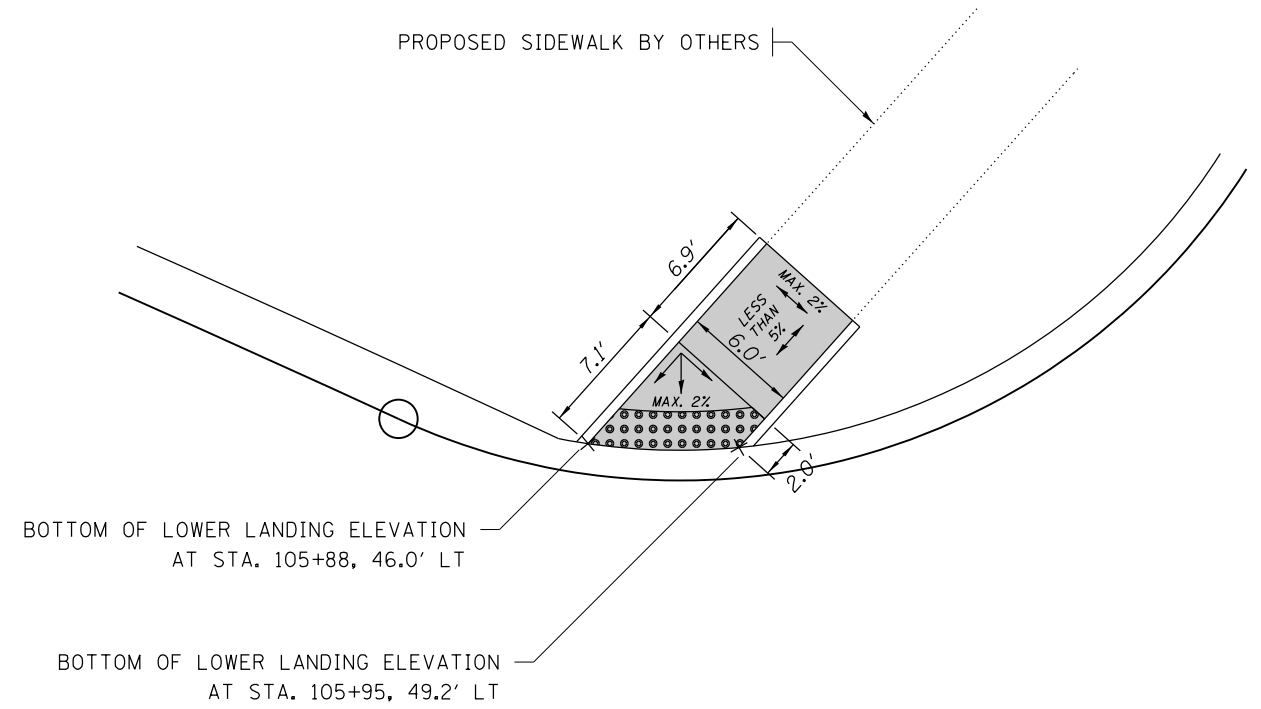
SCALE: 1:5      SHEET    OF    SHEETS    STA.            TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
330	91Y-N-2	COOK	128	34
CONTRACT NO. 62A47				
ILLINOIS FED. AID PROJECT				

US 34 AT LOCUST AVE.  
(SOUTHWEST CORNER)

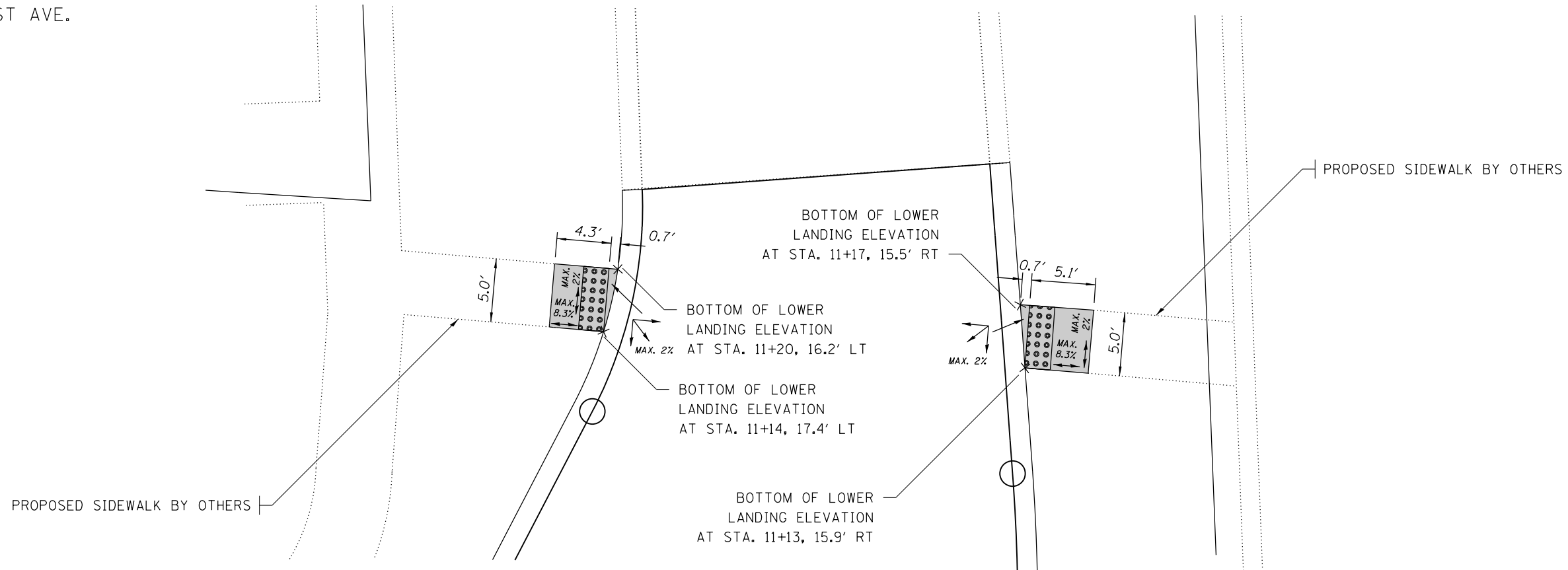


US 34 AT LOCUST AVE.  
(NORTHWEST CORNER)



NOTE: PROPOSED ELEVATIONS TO BE DETERMINED IN THE FIELD.

ALONG LOCUST AVE.

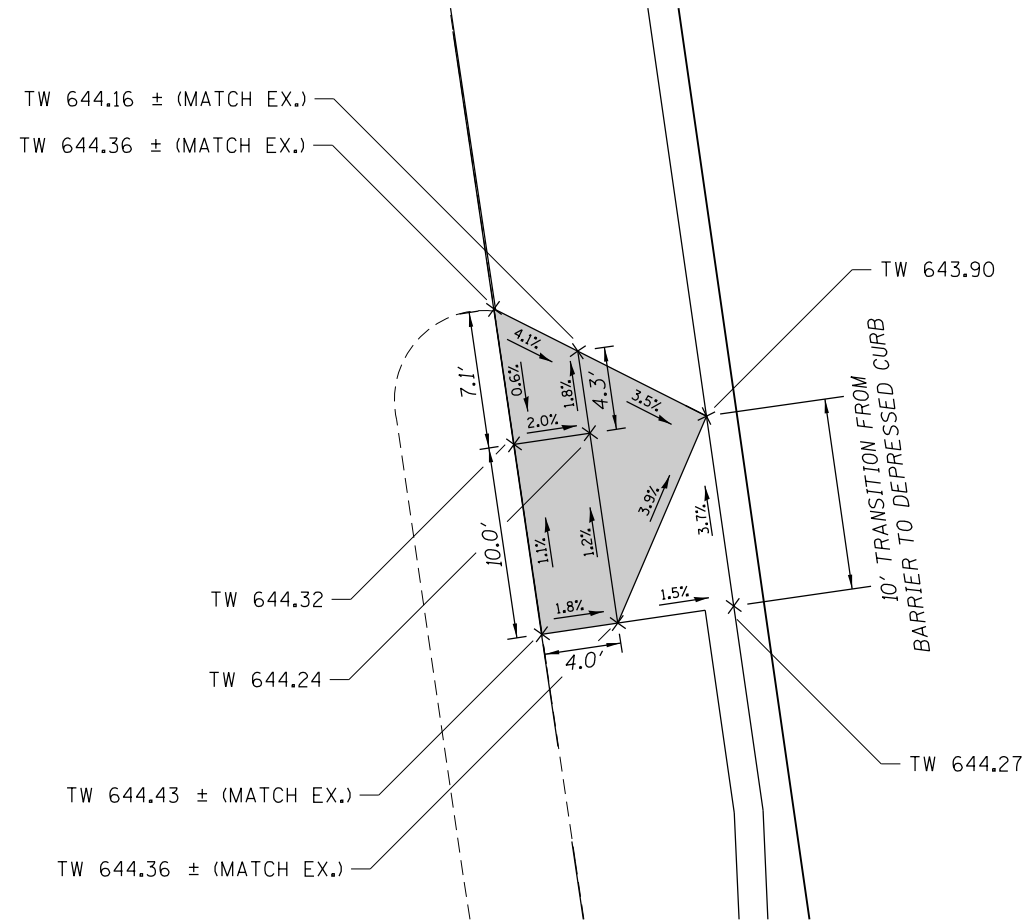


NOTE: PROPOSED ELEVATIONS TO BE DETERMINED IN THE FIELD.

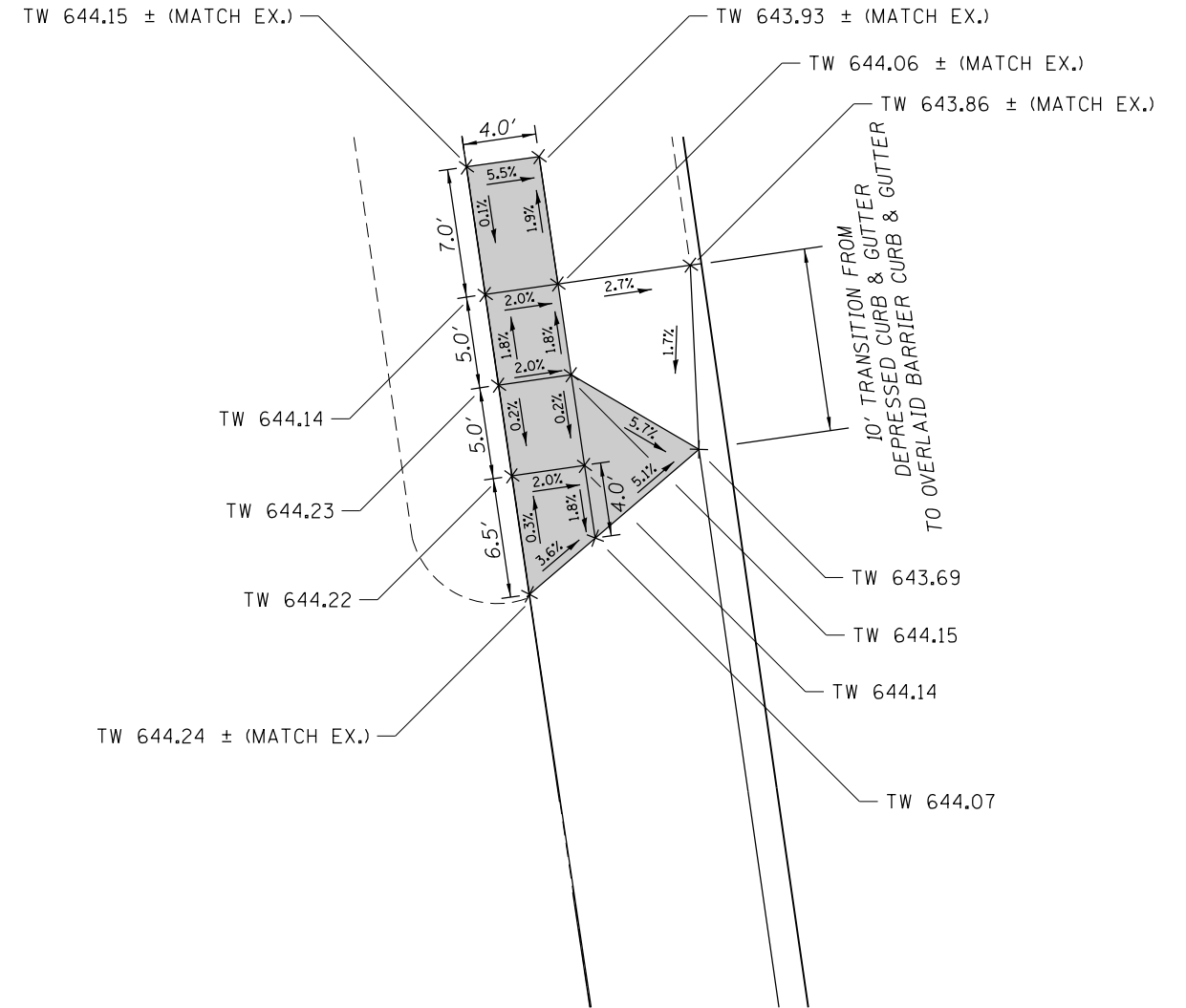
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Default	PLOT SCALE = 10.0000' / in.	CHECKED -	REVISED -		CONTRACT NO. 62A47							
	PLOT DATE = 11/2/2016	DATE -	REVISED -		ILLINOIS FED. AID PROJECT							
				SCALE: 1:5	SHEET	OF	SHEETS	STA.	TO	STA.		



US 12/20/45  
 STA. 501+27, LT. SIDE



US 12/20/45  
 STA. 501+64, LT. SIDE



**LEGEND:**

- PROPOSED DETECTABLE WARNINGS
- TW PROPOSED ELEVATION OF TOP OF SIDEWALK

**NOTE:**  
 REFERENCE BM ELEVATION 645.88, LOCATED ON THE ARROW BOLT ON THE FIRE HYDRANT AT THE NE CORNER OF HILLGROVE AVENUE AND LA GRANGE ROAD.

FILE NAME =	USER NAME = toriafm	DESIGNED -	REVISED -
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	PLOT DATE = 11/2/2016	DATE -	REVISED -

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

SIDEWALK DETAIL PLANS			
U.S. ROUTE 12/20/45 AT U.S. ROUTE 34			
SCALE: 1:5	SHEET	OF SHEETS	STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
330	91Y-N-2	COOK	128	36
CONTRACT NO. 62A47				
ILLINOIS FED. AID PROJECT				

**MAINTENANCE OF TRAFFIC NOTES**

- THE STAGES OF CONSTRUCTION AND TRAFFIC CONTROL PLANS SHALL SERVE AS A GUIDE FOR THE SAFE DIVERSION OF TRAFFIC DURING THE EXECUTION OF THIS CONTRACT. ANY CHANGES TO THE PLANS SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL.
- THE CONTRACTOR SHALL MAINTAIN TRAFFIC IN ACCORDANCE WITH THE SPECIAL PROVISIONS, STATE STANDARDS, STANDARD SPECIFICATIONS AND AS DIRECTED BY THE ENGINEER.
- THE FURNISHING, INSTALLING, AND RELOCATION OF ALL TRAFFIC SIGNS SHALL BE IN ACCORDANCE WITH THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES AND THE STANDARD SPECIFICATIONS.
- ACCESS TO PROPERTIES SHALL BE MAINTAINED AT ALL TIMES. THE CONTRACTOR SHALL ERECT DRIVEWAY ENTRANCE SIGNS TO PROVIDE GUIDANCE TO THE PUBLIC. THIS WORK SHALL BE PAID FOR AS "TEMPORARY INFORMATION SIGNING". WHEN A DRIVEWAY MUST BE CLOSED TEMPORARILY FOR CONSTRUCTION OF THE DRIVEWAY APRON, PROPERTIES WITH MULTIPLE ENTRANCES SHALL HAVE ONLY ONE ENTRANCE CLOSED AT A TIME.
- THE CONTRACTOR SHALL ENSURE THAT SIDEWALK IS ALWAYS OPEN ON AT LEAST ONE SIDE OF THE ROAD DURING EACH STAGE.
- THE CONTRACTOR SHALL ACCOMMODATE PACE BUS RIDERS AT THE THREE PACE BUS STOPS LISTED BELOW THAT ARE WITHIN THE PROJECT LIMITS, INCLUDING ACCESS TO AND FROM EACH STOP:
  - NORTHBOUND ON US 12/20/45 (LA GRANGE RD.), APPROXIMATELY 150' NORTH OF US 34 (OGDEN AVE.)
  - SOUTHBOUND ON US 12/20/45 (LA GRANGE RD.), APPROXIMATELY 50' NORTH OF US 34 (OGDEN AVE.)
  - EASTBOUND ON US 34 (OGDEN AVE.), JUST EAST OF US 12/20/45 (LA GRANGE RD.)

**CONSTRUCTION SEQUENCE**

THE CONTRACTOR SHALL UTILIZE HIGHWAY STANDARDS 701101, 701427, 701602, 701701, 701801 AND 701901 FOR TRAFFIC CONTROL AND PROTECTION (DAY-TIME LANE CLOSURES) IN ORDER TO COMPLETE THE PROPOSED WORK. THE PROPOSED WORK TO BE COMPLETED DURING PRE-STAGE, STAGE 1 (PHASES A, B, AND C), AND STAGE 2 SHALL BE COMPLETED UTILIZING DAY-TIME LANE CLOSURES WHILE FULFILLING THE REQUIREMENTS SPECIFIED IN THE "KEEPING ARTERIAL ROADWAYS OPEN TO TRAFFIC (LANE CLOSURES ONLY)" SPECIAL PROVISION.

**PRE-STAGE:**

- INSTALLATION OF TEMPORARY TRAFFIC SIGNALS AND LIGHTING
- CONSTRUCTION OF SECTIONS OF PROPOSED STORM SEWER, DRAINAGE STRUCTURES AND ASSOCIATED PAVEMENT PATCHING (SEE PRE-STAGE PLAN FOR LOCATIONS)
- RELOCATION OF UTILITIES

**STAGE 1:**

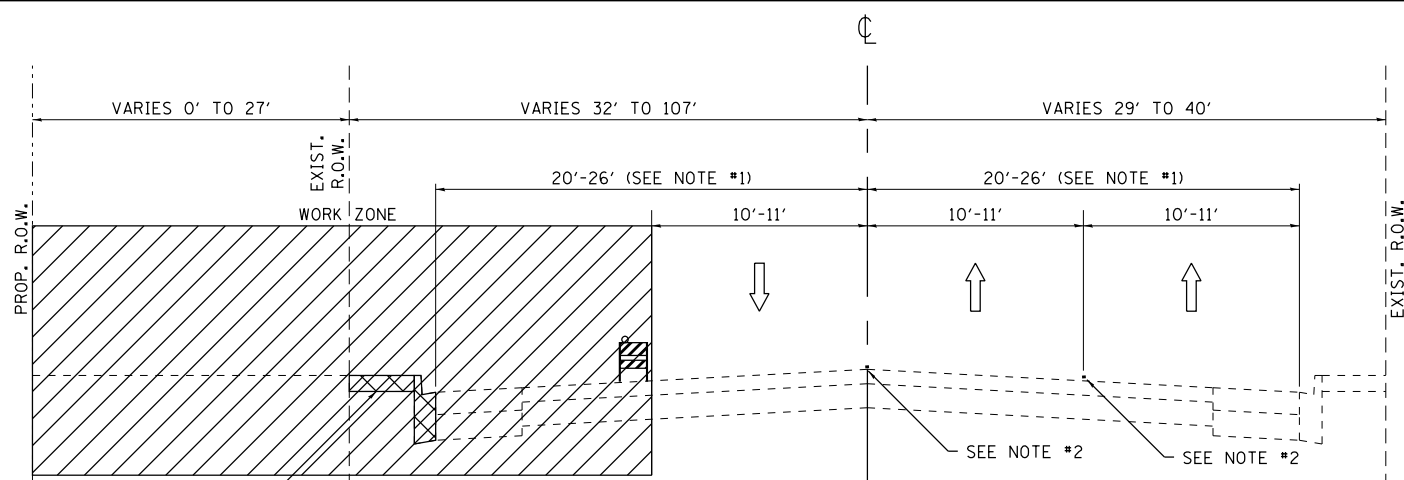
**PHASE A:**

- REMOVAL OF CURB AND GUTTER, CURB (WHERE THIS IS EXISTING INSTEAD OF CURB AND GUTTER), SIDEWALK, AND EXISTING DRAINAGE STRUCTURES ALONG THE NORTH SIDE OF US 34 (OGDEN AVE.)
- REMOVAL OF CURB AND GUTTER AND SIDEWALK AT THE NORTHWEST, SOUTHWEST, AND SOUTHEAST CORNERS OF US 12/20/45 (LA GRANGE RD.) AND US 34 (OGDEN AVE.)
- BEGIN REMOVAL OF EXISTING LOCUST AVE. PAVEMENT AND CURB, WHILE MAINTAINING ACCESS TO GORDON PARK
- BEGIN INSTALLATION OF STORM SEWER AND DRAINAGE STRUCTURES ALONG THE NORTH SIDE OF US 34 (OGDEN AVE.) AND PROPOSED LOCUST AVE.
- BEGIN CONSTRUCTION OF PAVEMENT AND CURB AND GUTTER FOR PROPOSED LOCUST AVE. (HMA SHALL BE INSTALLED TO BASE COURSE ONLY; THE FINAL SURFACE COURSE AND LEVELING BINDER SHALL BE INSTALLED DURING STAGE 2)
- HIGHWAY STANDARD 701801 SHALL BE UTILIZED FOR ALL SIDEWALK CLOSURES

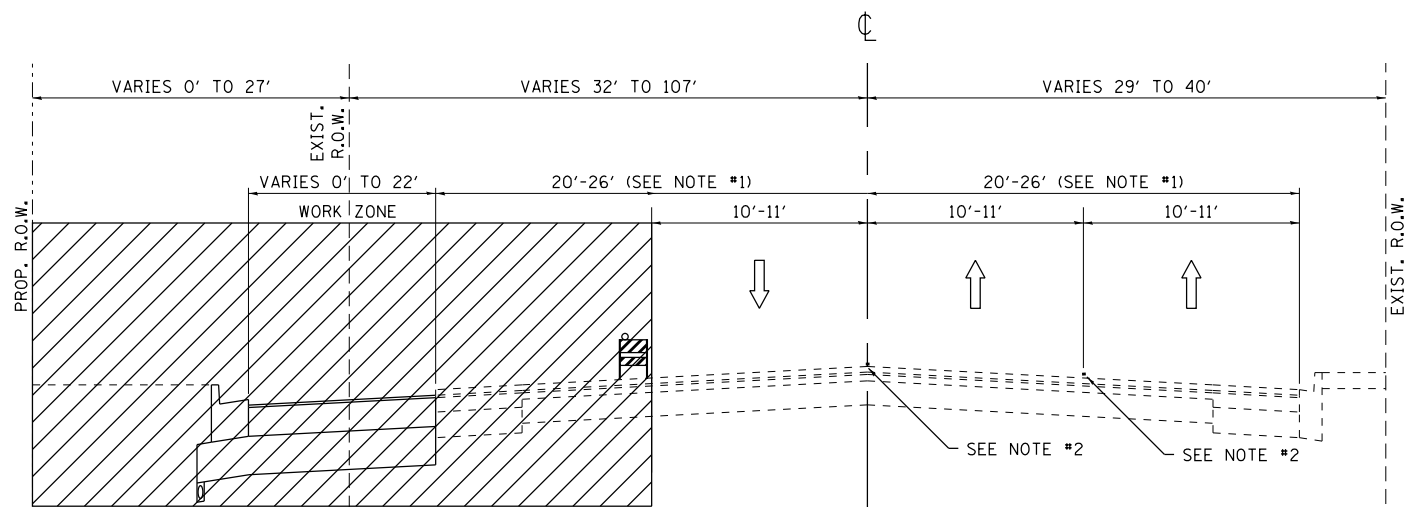
**PHASE B:**

- COMPLETE REMOVAL OF EXISTING LOCUST AVE. PAVEMENT AND CURB, WHILE MAINTAINING ACCESS TO GORDON PARK UTILIZING PROPOSED LOCUST AVE.
- CONSTRUCTION OF PAVEMENT AND CURB AND GUTTER ALONG THE NORTH SIDE OF US 34 (OGDEN AVE.) (HMA SHALL BE INSTALLED TO BASE COURSE ONLY; THE FINAL SURFACE COURSE AND LEVELING BINDER SHALL BE INSTALLED DURING STAGE 2)
- CONSTRUCTION OF PAVEMENT, CURB AND GUTTER, AND SIDEWALK AT THE NORTHWEST AND SOUTHWEST CORNERS OF US 12/20/45 (LA GRANGE RD.) AND US 34 (OGDEN AVE.) (HMA SHALL BE INSTALLED TO BASE COURSE ONLY; THE FINAL SURFACE COURSE AND LEVELING BINDER SHALL BE INSTALLED DURING STAGE 2)
- CONSTRUCTION OF CURB AND GUTTER AND SIDEWALK AT THE SOUTHEAST CORNER OF US 12/20/45 (LA GRANGE RD.) AND US 34 (OGDEN AVE.)
- COMPLETE INSTALLATION OF STORM SEWER AND DRAINAGE STRUCTURES ALONG THE NORTH SIDE OF US 34 (OGDEN AVE.) AND PROPOSED LOCUST AVE.
- COMPLETE CONSTRUCTION OF PAVEMENT AND CURB AND GUTTER FOR PROPOSED LOCUST AVE. (HMA SHALL BE INSTALLED TO BASE COURSE ONLY; THE FINAL SURFACE COURSE AND LEVELING BINDER SHALL BE INSTALLED DURING STAGE 2)
- HIGHWAY STANDARD 701801 SHALL BE UTILIZED FOR ALL SIDEWALK CLOSURES

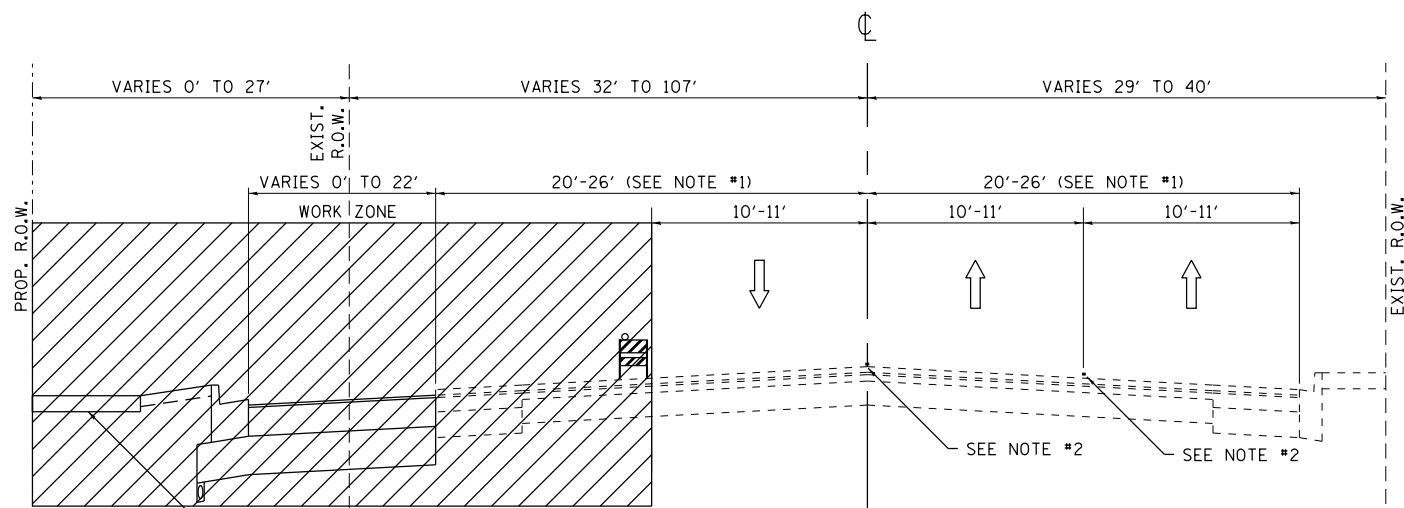
CONSTRUCTION SEQUENCE CONTINUED ON NEXT SHEET



**US 34  
STAGE 1 (PHASE A) TYPICAL SECTION**



**US 34  
STAGE 1 (PHASE B) TYPICAL SECTION**



**US 34  
STAGE 1 (PHASE C) TYPICAL SECTION**

**LEGEND**

- TYPE II BARRICADE OR DRUM WITH STEADY BURN MONODIRECTIONAL LIGHT, 50' CENTERS (20' CENTERS IN TAPER)
- DIRECTION OF TRAFFIC
- WORK ZONE
- REMOVAL ITEMS

**NOTES**

1. INCLUDES WIDTH OF TURN LANE AT INTERSECTION
2. UTILIZE EXISTING PAVEMENT MARKING
3. SEE TYPICAL SECTIONS AND PLAN/PROFILE SHEETS FOR LOCATIONS DONE AS A PART OF THIS CONTRACT AND THOSE LOCATIONS TO BE DONE BY OTHERS.

FILE NAME =	USER NAME = toriafm	DESIGNED -	REVISED -
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	PLOT DATE = 11/2/2016	DATE -	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**CONSTRUCTION SEQUENCE AND STAGING TYPICAL SECTIONS  
U.S. ROUTE 12/20/45 AT U.S. ROUTE 34**

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
330	91Y-N-2	COOK	128	37
CONTRACT NO. 62A47				
ILLINOIS FED. AID PROJECT				

**CONSTRUCTION SEQUENCE CONTINUED**





PHASE C:

- INSTALLATION OF PROPOSED TRAFFIC SIGNALS AND LIGHTING AT THE INTERSECTIONS OF:  
US 12/20/45 (LA GRANGE RD.) AT US 34 (OGDEN AVE.)  
US 34 (OGDEN AVE.) AT LOCUST AVE.
- CONSTRUCTION OF SIDEWALK AND INSTALLATION OF LANDSCAPING ALONG THE NORTH SIDE OF  
US 34 (OGDEN AVE.) AND PROPOSED LOCUST AVE.

STAGE 2 (NOT SHOWN ON STAGING PLAN SHEETS):

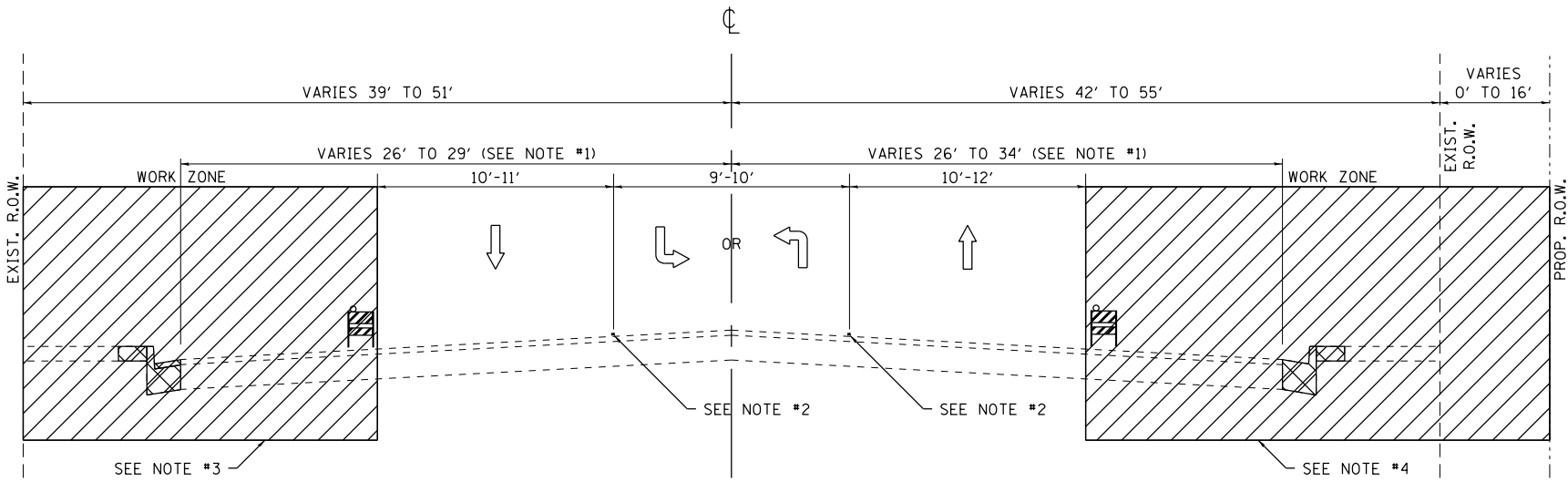
- MILLING OF SURFACE ON US 12/20/45 (LA GRANGE RD.) AND US 34 (OGDEN AVE.)  
NOT EFFECTED BY WIDENING
- INSTALLATION OF LEVELING BINDER AND FINAL SURFACE COURSE WITHIN THE ENTIRE PROJECT LIMITS
- INSTALLATION OF PAVEMENT MARKINGS AND RAISED REFLECTIVE PAVEMENT MARKERS

**LEGEND**

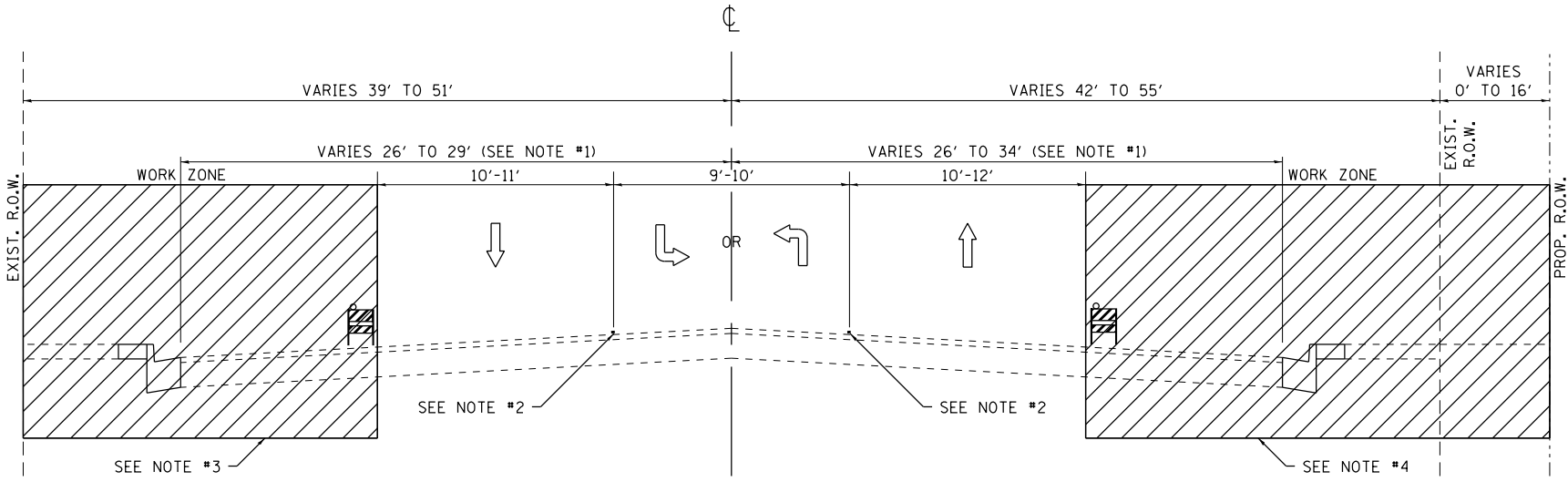
-  TYPE II BARRICADE OR DRUM WITH STEADY BURN MONODIRECTIONAL LIGHT, 50' CENTERS (20' CENTERS IN TAPER)
-  DIRECTION OF TRAFFIC
-  WORK ZONE
-  REMOVAL ITEMS

**NOTES**

1. INCLUDES WIDTH OF TURN LANE(S) AT INTERSECTION
2. UTILIZE EXISTING PAVEMENT MARKING
3. SOUTH LEG, WEST SIDE OF INTERSECTION DOES NOT REQUIRE A LANE CLOSURE (SEE STAGE 1 PLAN SHEET)
4. SOUTH LEG, EAST SIDE OF INTERSECTION HAS AN EXISTING NORTHBOUND RIGHT TURN LANE THAT IS TO REMAIN OPEN (SEE STAGE 1 PLAN SHEET)

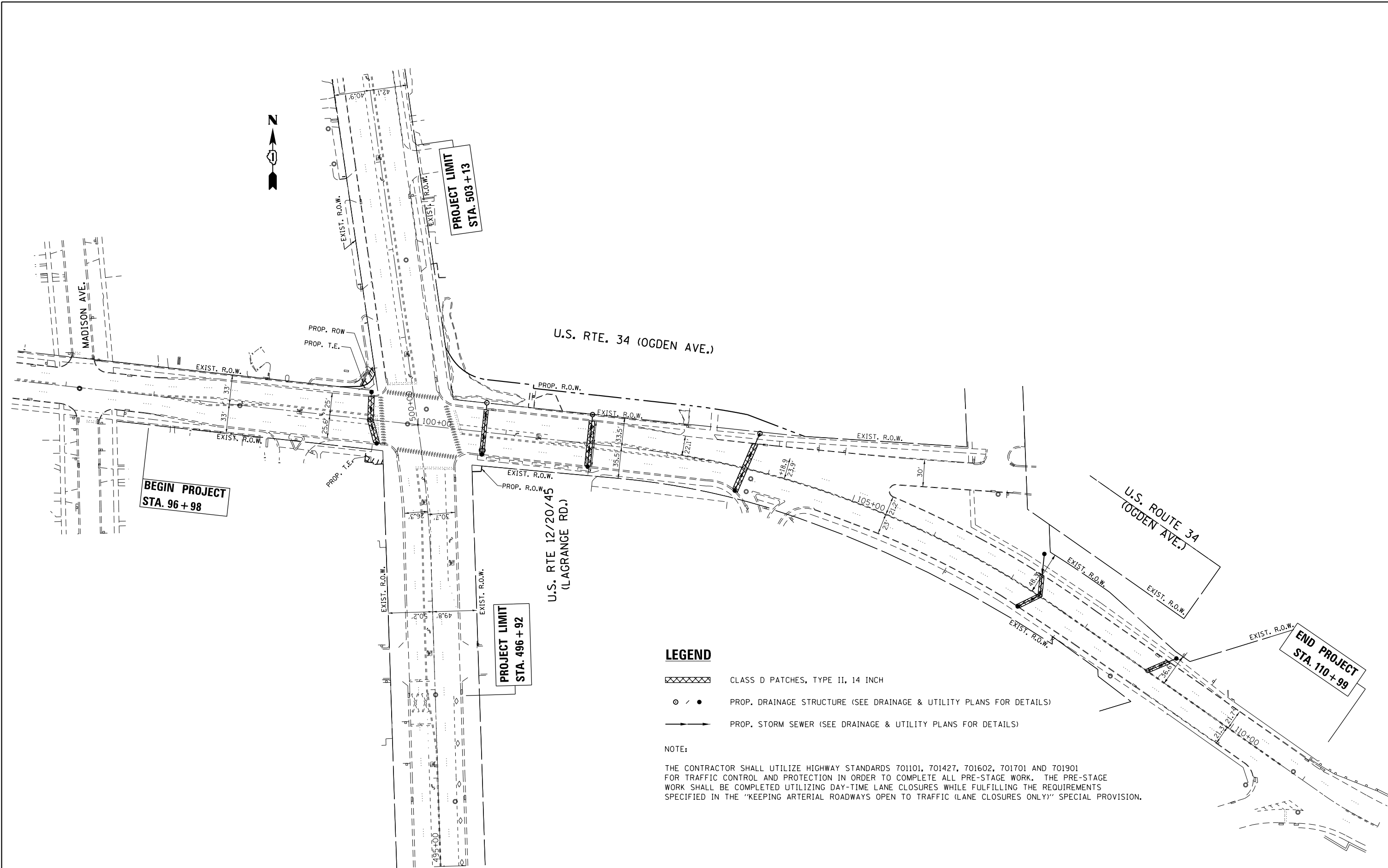


**US 12/20/45  
STAGE 1 (PHASE A) TYPICAL SECTION**

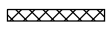




**US 12/20/45  
STAGE 1 (PHASE B) TYPICAL SECTION**

FILE NAME =	USER NAME = tar1qfm	DESIGNED -	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>CONSTRUCTION SEQUENCE AND STAGING TYPICAL SECTIONS U.S. ROUTE 12/20/45 AT U.S. ROUTE 34</b>	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
pw:\IL\084EBID\INTEG\illinois.gov\PWIDOT\Documents\IDOT Offices\District 1\Projects\P113812\Drawings\Design\P113812-sh1-stage 1.dgn		CHECKED -	REVISED -			330	91Y-N-2	COOK	128	38	
Default	PLOT SCALE = 100.0000' / 1in.	DATE -	REVISED -			CONTRACT NO. 62A47					
	PLOT DATE = 11/2/2016					ILLINOIS FED. AID PROJECT					



**LEGEND**

-  CLASS D PATCHES, TYPE II, 14 INCH
-  PROP. DRAINAGE STRUCTURE (SEE DRAINAGE & UTILITY PLANS FOR DETAILS)
-  PROP. STORM SEWER (SEE DRAINAGE & UTILITY PLANS FOR DETAILS)

**NOTE:**

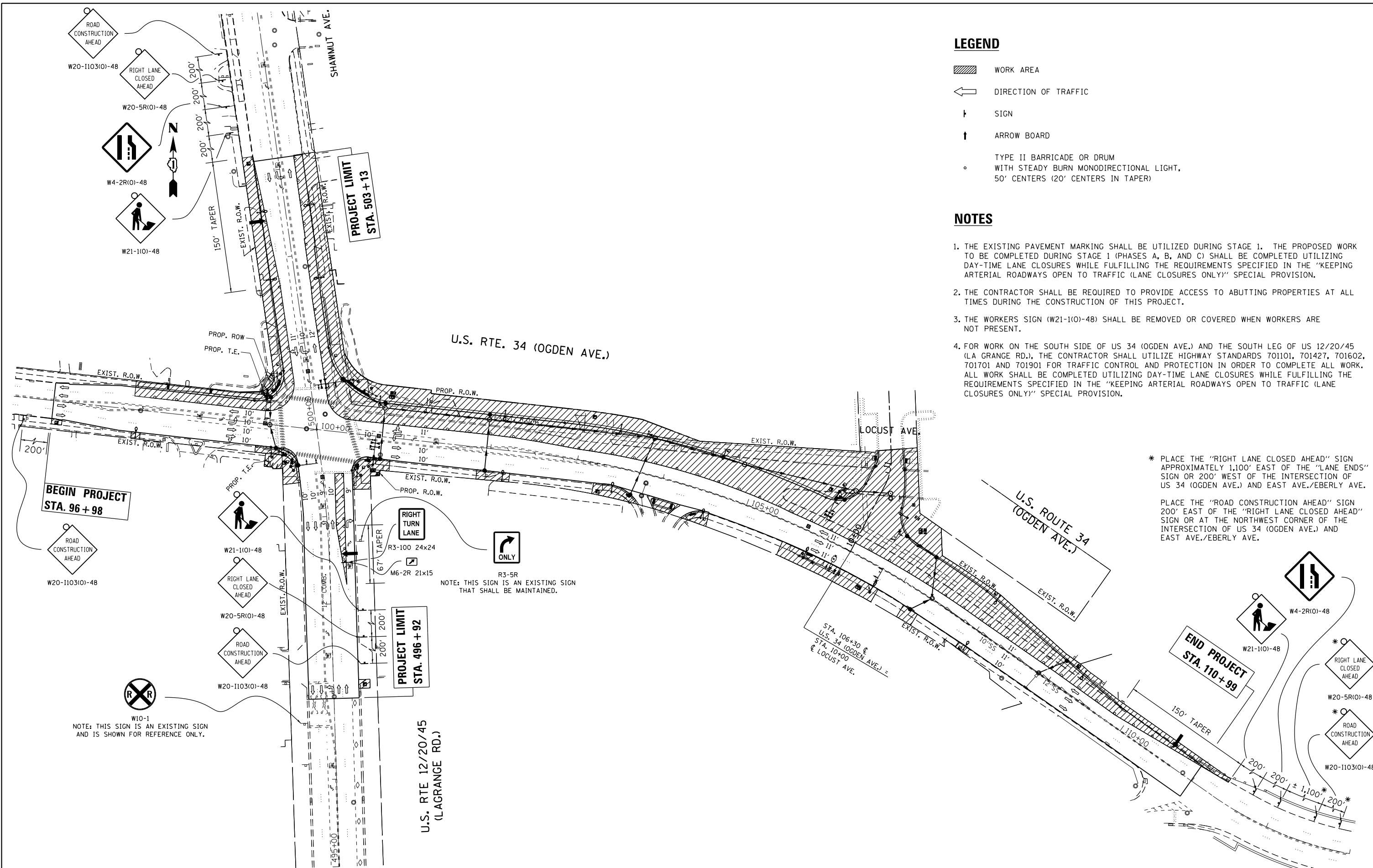
THE CONTRACTOR SHALL UTILIZE HIGHWAY STANDARDS 701101, 701427, 701602, 701701 AND 701901 FOR TRAFFIC CONTROL AND PROTECTION IN ORDER TO COMPLETE ALL PRE-STAGE WORK. THE PRE-STAGE WORK SHALL BE COMPLETED UTILIZING DAY-TIME LANE CLOSURES WHILE FULFILLING THE REQUIREMENTS SPECIFIED IN THE "KEEPING ARTERIAL ROADWAYS OPEN TO TRAFFIC (LANE CLOSURES ONLY)" SPECIAL PROVISION.

FILE NAME =	USER NAME = toriafm	DESIGNED -	REVISED -
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Default	PLOT SCALE = 100.0000' / in.	CHECKED -	REVISED -
	PLOT DATE = 11/2/2016	DATE -	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

<b>PRE-STAGE PLAN</b>			
<b>U.S. ROUTE 12/20/45 AT U.S. ROUTE 34</b>			
SCALE:	SHEET	OF SHEETS	STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
330	91Y-N-2	COOK	128	39
CONTRACT NO. 62A47				
ILLINOIS FED. AID PROJECT				



**LEGEND**

- WORK AREA
- DIRECTION OF TRAFFIC
- SIGN
- ARROW BOARD
- TYPE II BARRICADE OR DRUM WITH STEADY BURN MONODIRECTIONAL LIGHT, 50' CENTERS (20' CENTERS IN TAPER)

**NOTES**

1. THE EXISTING PAVEMENT MARKING SHALL BE UTILIZED DURING STAGE 1. THE PROPOSED WORK TO BE COMPLETED DURING STAGE 1 (PHASES A, B, AND C) SHALL BE COMPLETED UTILIZING DAY-TIME LANE CLOSURES WHILE FULFILLING THE REQUIREMENTS SPECIFIED IN THE "KEEPING ARTERIAL ROADWAYS OPEN TO TRAFFIC (LANE CLOSURES ONLY)" SPECIAL PROVISION.
2. THE CONTRACTOR SHALL BE REQUIRED TO PROVIDE ACCESS TO ABUTTING PROPERTIES AT ALL TIMES DURING THE CONSTRUCTION OF THIS PROJECT.
3. THE WORKERS SIGN (W21-10)-48) SHALL BE REMOVED OR COVERED WHEN WORKERS ARE NOT PRESENT.
4. FOR WORK ON THE SOUTH SIDE OF US 34 (OGDEN AVE.) AND THE SOUTH LEG OF US 12/20/45 (LA GRANGE RD.), THE CONTRACTOR SHALL UTILIZE HIGHWAY STANDARDS 701101, 701427, 701602, 701701 AND 701901 FOR TRAFFIC CONTROL AND PROTECTION IN ORDER TO COMPLETE ALL WORK. ALL WORK SHALL BE COMPLETED UTILIZING DAY-TIME LANE CLOSURES WHILE FULFILLING THE REQUIREMENTS SPECIFIED IN THE "KEEPING ARTERIAL ROADWAYS OPEN TO TRAFFIC (LANE CLOSURES ONLY)" SPECIAL PROVISION.

\* PLACE THE "RIGHT LANE CLOSED AHEAD" SIGN APPROXIMATELY 1,100' EAST OF THE "LANE ENDS" SIGN OR 200' WEST OF THE INTERSECTION OF US 34 (OGDEN AVE.) AND EAST AVE./EBERLY AVE.

PLACE THE "ROAD CONSTRUCTION AHEAD" SIGN 200' EAST OF THE "RIGHT LANE CLOSED AHEAD" SIGN OR AT THE NORTHWEST CORNER OF THE INTERSECTION OF US 34 (OGDEN AVE.) AND EAST AVE./EBERLY AVE.

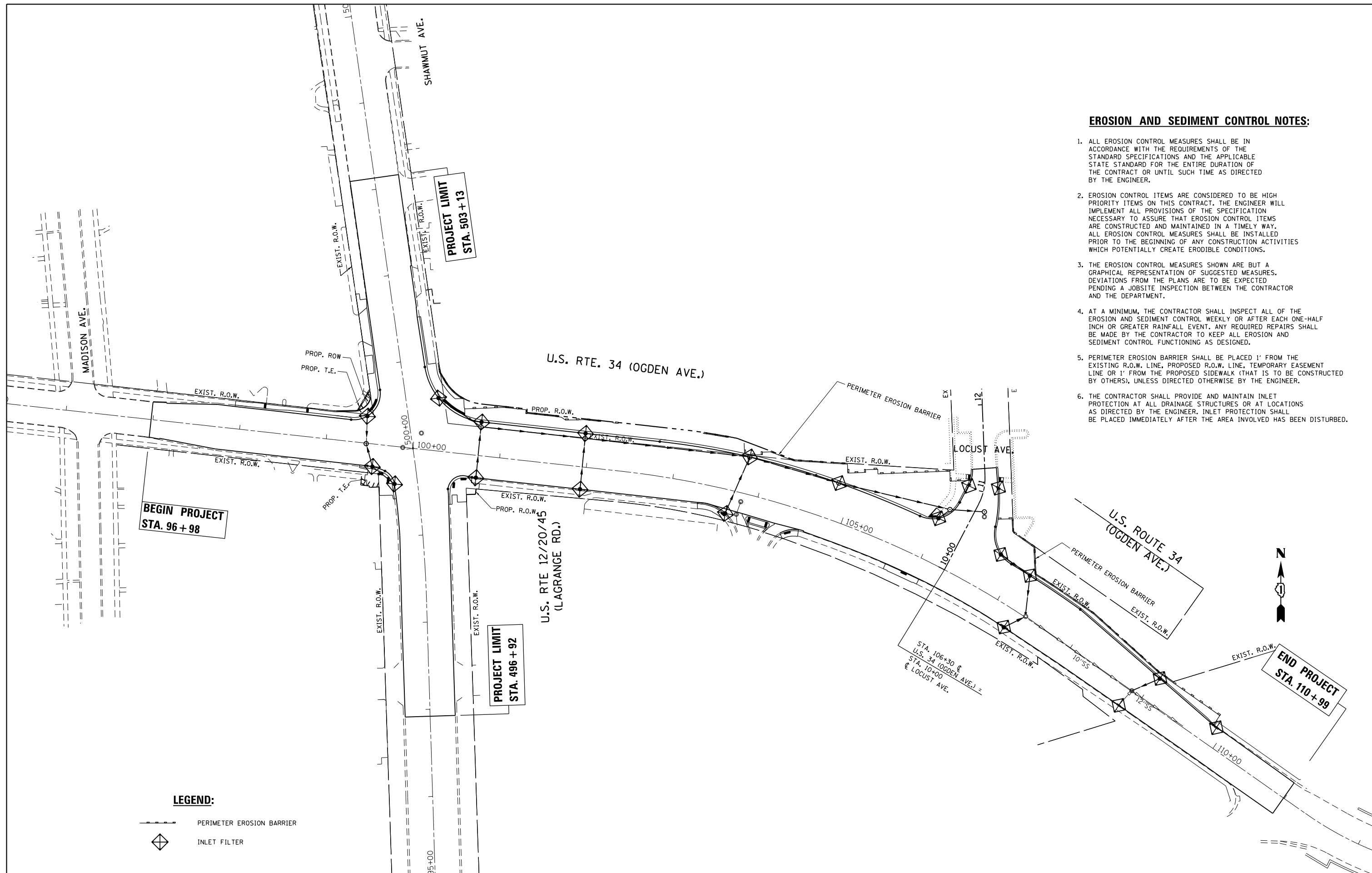
R3-5R  
NOTE: THIS SIGN IS AN EXISTING SIGN THAT SHALL BE MAINTAINED.

W10-1  
NOTE: THIS SIGN IS AN EXISTING SIGN AND IS SHOWN FOR REFERENCE ONLY.

FILE NAME =	USER NAME = toriafm	DESIGNED -	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>STAGE 1 PLAN (PHASES A, B, &amp; C) U.S. ROUTE 12/20/45 AT U.S. ROUTE 34</b>	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
pw\11084EBIDINTEG.illinois.gov\PI\DOT\Documents\DOT Offices\District 1\Projects\PI13812\Design\PI13812-sht-stage 1.dgn		CHECKED -	REVISED -			330	91Y-N-2	COOK	128	40	
PLOT SCALE = 100.0000' / in.		DATE -	REVISED -			CONTRACT NO. 62A47					
Default		PLOT DATE = 11/2/2016	REVISED -			ILLINOIS FED. AID PROJECT					

**EROSION AND SEDIMENT CONTROL NOTES:**

1. ALL EROSION CONTROL MEASURES SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE STATE STANDARD FOR THE ENTIRE DURATION OF THE CONTRACT OR UNTIL SUCH TIME AS DIRECTED BY THE ENGINEER.
2. EROSION CONTROL ITEMS ARE CONSIDERED TO BE HIGH PRIORITY ITEMS ON THIS CONTRACT. THE ENGINEER WILL IMPLEMENT ALL PROVISIONS OF THE SPECIFICATION NECESSARY TO ASSURE THAT EROSION CONTROL ITEMS ARE CONSTRUCTED AND MAINTAINED IN A TIMELY WAY. ALL EROSION CONTROL MEASURES SHALL BE INSTALLED PRIOR TO THE BEGINNING OF ANY CONSTRUCTION ACTIVITIES WHICH POTENTIALLY CREATE ERODIBLE CONDITIONS.
3. THE EROSION CONTROL MEASURES SHOWN ARE BUT A GRAPHICAL REPRESENTATION OF SUGGESTED MEASURES. DEVIATIONS FROM THE PLANS ARE TO BE EXPECTED PENDING A JOBSITE INSPECTION BETWEEN THE CONTRACTOR AND THE DEPARTMENT.
4. AT A MINIMUM, THE CONTRACTOR SHALL INSPECT ALL OF THE EROSION AND SEDIMENT CONTROL WEEKLY OR AFTER EACH ONE-HALF INCH OR GREATER RAINFALL EVENT. ANY REQUIRED REPAIRS SHALL BE MADE BY THE CONTRACTOR TO KEEP ALL EROSION AND SEDIMENT CONTROL FUNCTIONING AS DESIGNED.
5. PERIMETER EROSION BARRIER SHALL BE PLACED 1' FROM THE EXISTING R.O.W. LINE, PROPOSED R.O.W. LINE, TEMPORARY EASEMENT LINE OR 1' FROM THE PROPOSED SIDEWALK (THAT IS TO BE CONSTRUCTED BY OTHERS), UNLESS DIRECTED OTHERWISE BY THE ENGINEER.
6. THE CONTRACTOR SHALL PROVIDE AND MAINTAIN INLET PROTECTION AT ALL DRAINAGE STRUCTURES OR AT LOCATIONS AS DIRECTED BY THE ENGINEER. INLET PROTECTION SHALL BE PLACED IMMEDIATELY AFTER THE AREA INVOLVED HAS BEEN DISTURBED.





**BEGIN PROJECT  
STA. 96 + 98**

**PROJECT LIMIT  
STA. 503 + 13**

**PROJECT LIMIT  
STA. 496 + 92**

**END PROJECT  
STA. 110 + 99**

**LEGEND:**

-  PERIMETER EROSION BARRIER
-  INLET FILTER

FILE NAME =	USER NAME = tar1qfm	DESIGNED -	REVISED -
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Default	PLOT SCALE = 100.0000' / 1" =	CHECKED -	REVISED -
	PLOT DATE = 11/2/2016	DATE -	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**EROSION AND SEDIMENT CONTROL PLAN  
U.S. ROUTE 12/20/45 AT U.S. ROUTE 34**

SCALE: 1"=50' SHEET OF SHEETS STA. TO STA.

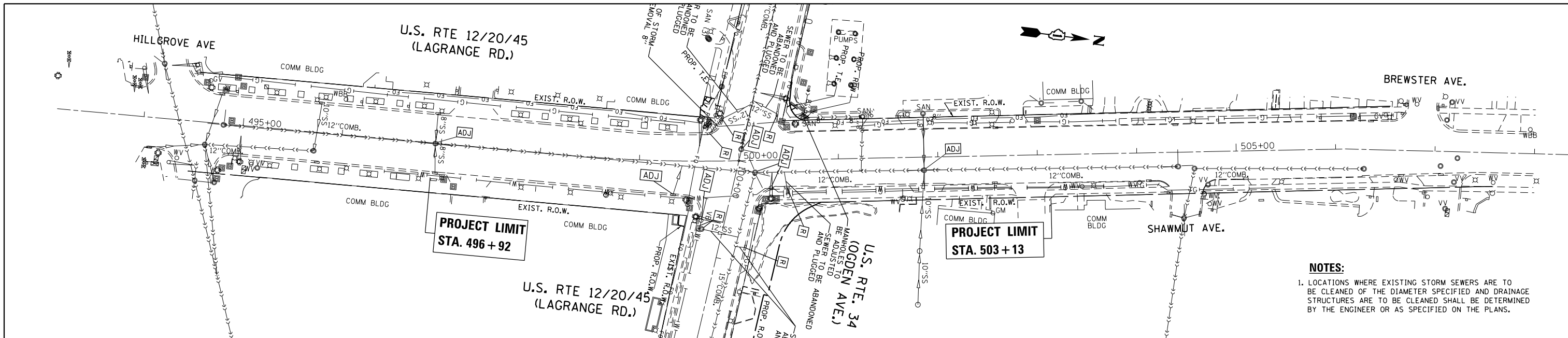
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
330	91Y-N-2	COOK	128	41
CONTRACT NO. 62A47				
ILLINOIS FED. AID PROJECT				



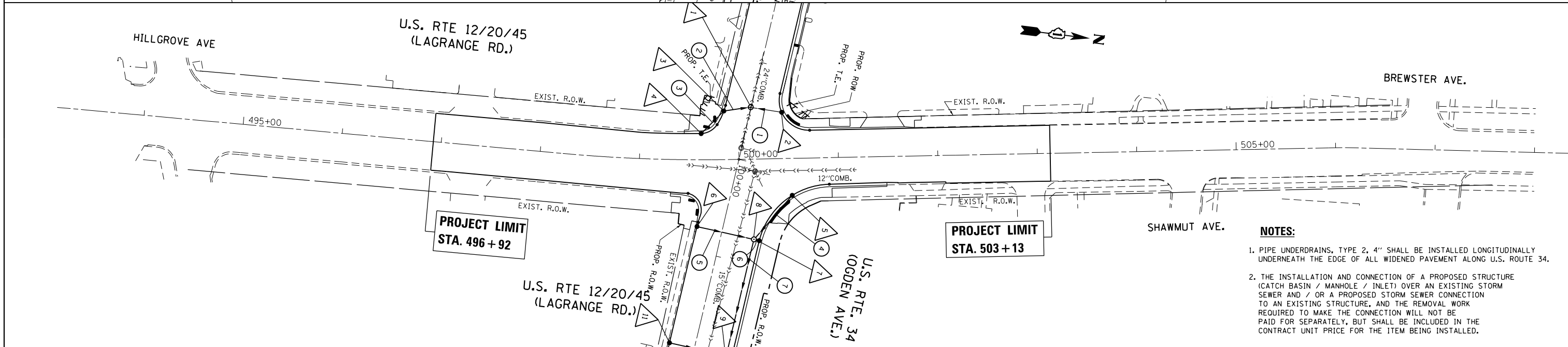


DATE	
BY	
SURVEYED	
PLOTTED	
ALIGNED	
CHECKED	
FILE NAME	
PLAN	
NOTE BOOK	
NO.	

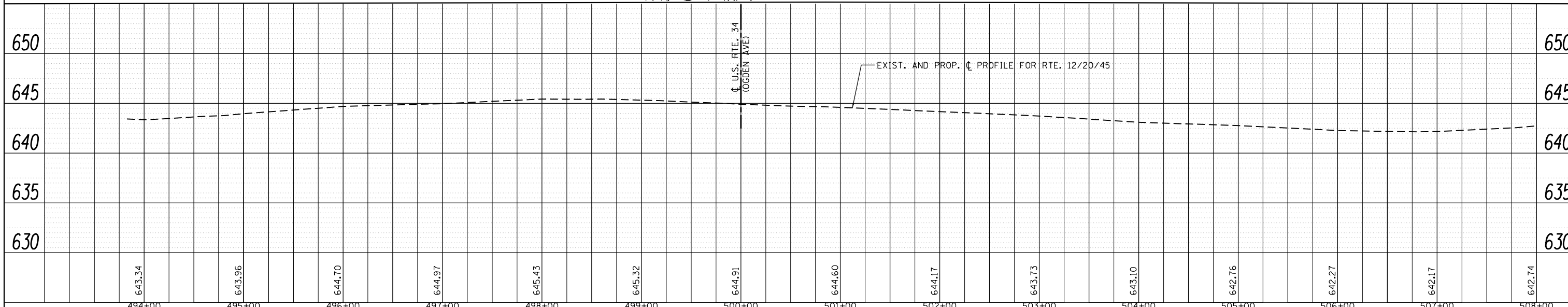
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BY	
SURVEYED	
PLOTTED	
GRADES	
CHECKED	
STRUCTURE	
NOTATIONS	
PROFILE	
NOTE BOOK	
NO.	



**NOTES:**  
 1. LOCATIONS WHERE EXISTING STORM SEWERS ARE TO BE CLEANED OF THE DIAMETER SPECIFIED AND DRAINAGE STRUCTURES ARE TO BE CLEANED SHALL BE DETERMINED BY THE ENGINEER OR AS SPECIFIED ON THE PLANS.



**NOTES:**  
 1. PIPE UNDERDRAINS, TYPE 2, 4" SHALL BE INSTALLED LONGITUDINALLY UNDERNEATH THE EDGE OF ALL WIDENED PAVEMENT ALONG U.S. ROUTE 34.  
 2. THE INSTALLATION AND CONNECTION OF A PROPOSED STRUCTURE (CATCH BASIN / MANHOLE / INLET) OVER AN EXISTING STORM SEWER AND / OR A PROPOSED STORM SEWER CONNECTION TO AN EXISTING STRUCTURE, AND THE REMOVAL WORK REQUIRED TO MAKE THE CONNECTION WILL NOT BE PAID FOR SEPARATELY, BUT SHALL BE INCLUDED IN THE CONTRACT UNIT PRICE FOR THE ITEM BEING INSTALLED.



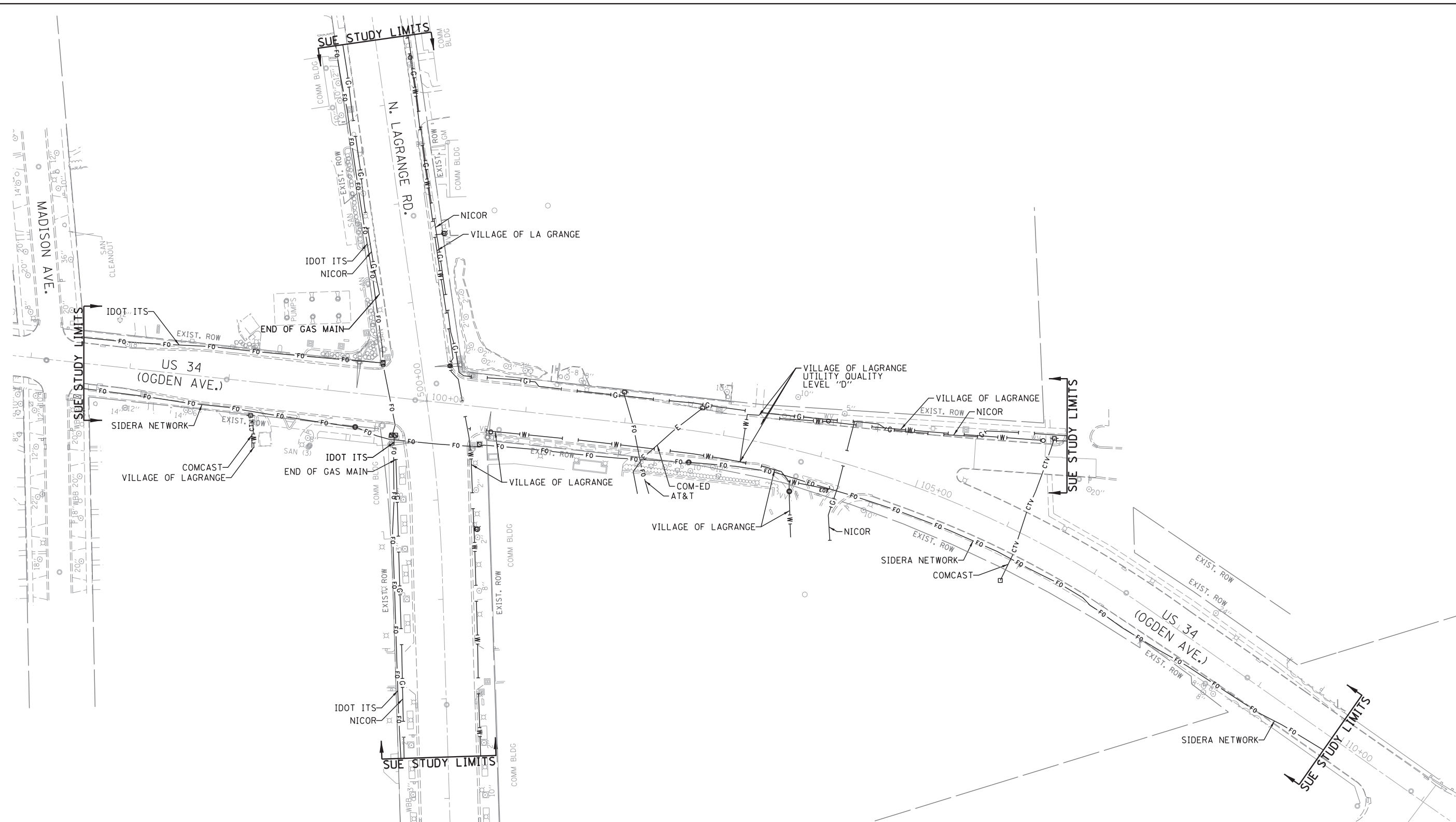
FILE NAME =	USER NAME = toriafm	DESIGNED -	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>DRAINAGE AND UTILITIES PLAN AND PROFILE U.S. ROUTE 12/20/45 AT U.S. ROUTE 34</b>	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
Default		CHECKED -	REVISED -			330	91Y-N-2	COOK	128	43	
		DATE -	REVISED -			CONTRACT NO. 62A47					
						ILLINOIS FED. AID PROJECT					

PROPOSED DRAINAGE STRUCTURES:

- 1 | MH, TY-A, 5' DIA W/ TY-1 FR & CLID  
STA. 99+46.1, 0.5' RT  
T.G. 644.80  
INV. MATCH EX. 635.45 (E) (EX 24" COMB)  
INV. MATCH EX. 635.45 (W) (EX 24" COMB)  
INV. 636.01 (N)  
INV. 636.01 (SE)
- 2 | CB, TY-C W/ TY-24 F&G  
STA. 99+44.0, 30.9' LT  
T.G. 644.01  
INV. 636.50 (S)
- 3 | CB, TY-A, 4' DIA W/ TY-24 F&G  
STA. 99+56.1, 26.0' RT  
T.G. 644.29  
INV. 636.50 (NW)  
INV. 638.70 (SE)
- 4 | CB, TY-C W/ TY-24 F&G  
STA. 99+83.4, 42.9' RT  
T.G. 644.42  
INV. 639.39 (NW)
- 5 | CB, TY-C W/ TY-24 F&G  
STA. 100+22.9, 60.6' LT  
T.G. 644.00  
INV. 640.48 (SE)
- 6 | CB, TY-C W/ TY-1 FR & OLID  
STA. 100+75.4, 25.5' RT  
T.G. 644.47  
INV. 640.75 (N)
- 7 | CB, TY-C W/ TY-24 F&G  
STA. 100+74.9, 38.6' LT  
T.G. 644.10  
INV. 640.11 (S)
- 8 | FLAT TOP | MH, TY-A, 6' DIA W/ TY-1 FR & CLID  
STA. 100+74.8, 33.1' LT  
T.G. 644.22  
INV. 640.00 (NW)  
INV. 639.75 (E)  
INV. 640.00 (N)  
INV. 640.00 (S)
- 9 | MH, TY-A, 5' DIA W/ TY-1 FR & CLID  
STA. 101+95.0, 32.9' LT  
T.G. 645.06  
INV. 636.77 (W)  
INV. 636.52 (E)  
INV. 638.35 (N)  
INV. 638.35 (S)
- 10 | CB, TY-C W/ TY-24 F&G  
STA. 101+95.0, 38.6' LT  
T.G. 644.92  
INV. 638.46 (S)
- 11 | CB, TY-C W/ TY-1 FR & OLID  
STA. 101+95.6, 25.6' RT  
T.G. 645.35  
INV. 639.52 (N)
- 12 | MH, TY-A, 5' DIA W/ TY-1 FR & OLID  
STA. 103+79.9, 42.3' LT  
T.G. 643.90  
INV. 631.74 (W)  
INV. 625.36 (E)  
INV. 637.18 (SW)
- 13 | CB, TY-C W/ TY-1 FR & OLID  
USE ADA COMPLIANT CAST OPEN LID  
(SEE STATE STANDARD 604001)  
STA. 103+67.7, 27.2' RT  
T.G. 644.55  
INV. 639.15 (NE)
- 14 | MH, TY-A, 5' DIA W/ TY-1 FR & OLID  
STA. 104+82.3, 43.0' LT  
T.G. 641.24  
INV. 625.18 (W)  
INV. 625.18 (E)
- 15 | FLAT TOP | MH, TY-A, 6' DIA W/ 10.51" RESTRICTOR W/ TY-1 FR & CLID  
STA. 106+05.3, 64.5' LT  
T.G. 635.50  
INV. 625.00 (W)  
INV. 625.00 (E)  
INV. 631.66 (SW)  
INV. 625.00 (RESTRICTOR)  
ELEVATION OF TOP OF PLATE OVERFLOW 628.84
- 16 | CB, TY-C W/ TY-1 FR & OLID  
STA. 105+98.2, 49.7' LT  
T.G. 637.02  
INV. 631.99 (NE)
- 17 | FLAT TOP | MH, TY-A, 5' DIA W/ TY-1 FR & CLID  
STA. 106+39.3, 80.0' LT  
T.G. 635.16  
INV. 624.63 (W)  
INV. MATCH EX (N) (EX 15" COMB)  
INV. MATCH EX (S) (EX 15" COMB)
- 18 | CB, TY-C W/ TY-1 FR & OLID  
STA. 106+77.2, 46.5' LT  
T.G. 634.27  
INV. 630.38 (SE)
- 19 | FLAT TOP | CB, TY-A, 4' DIA W/ TY-1 FR & OLID  
STA. 107+16.7, 43.0' LT  
T.G. 633.07  
INV. 629.76 (NW)  
INV. 629.76 (SE)
- 20 | CB, TY-C W/ TY-1 FR & OLID  
STA. 107+22.9, 23.1' RT  
T.G. 632.52  
INV. 629.32 (NE)
- 21 | CB, TY-C W/ TY-1 FR & OLID  
STA. 109+04.5, 30.7' LT  
T.G. 626.18  
INV. 623.19 (SW)

PROPOSED STORM SEWERS:

- 1 | 12" DIA SS, CL A, TY 2  
LENGTH = 31.4'  
SLOPE = 1.6%  
TBF = 32.1 CU. YD.
- 2 | 12" DIA SS, CL A, TY 2  
LENGTH = 27.3'  
SLOPE = 1.8%  
TBF = 28.6 CU. YD.
- 3 | 12" DIA SS, CL A, TY 2  
LENGTH = 32.0'  
SLOPE = 2.2%  
TBF = 11.6 CU. YD.
- 4 | 12" DIA SS, CL A, TY 2  
LENGTH = 58.7'  
SLOPE = 0.8%  
TBF = 13.4 CU. YD.
- 5 | 12" DIA SS (WATER MAIN REQUIREMENTS)  
LENGTH = 58.6'  
SLOPE = 1.3%  
TBF = 15.4 CU. YD.
- 6 | 12" DIA SS, CL A, TY 2  
LENGTH = 5.5'  
SLOPE = 2.0%  
TBF = 1.4 CU. YD.
- 7 | 12" DIA SS, CL A, TY 2  
LENGTH = 120.2'  
SLOPE = 2.5%  
TBF = 91.8 CU. YD.
- 8 | 12" DIA SS, CL A, TY 2  
LENGTH = 5.7'  
SLOPE = 1.9%  
TBF = 4.6 CU. YD.
- 9 | 12" DIA SS (WATER MAIN REQUIREMENTS)  
LENGTH = 58.6'  
SLOPE = 2.0%  
TBF = 45.7 CU. YD.
- 10 | 15" DIA SS (WATER MAIN REQUIREMENTS)  
LENGTH = 190.1'  
SLOPE = 2.5%  
TBF = 278.2 CU. YD.
- 11 | 12" DIA SS (WATER MAIN REQUIREMENTS)  
LENGTH = 70.3'  
SLOPE = 2.8%  
TBF = 52.7 CU. YD.
- 12 | 24" DIA SS (WATER MAIN REQUIREMENTS)  
LENGTH = 106.5'  
SLOPE = 0.2%  
TBF = 323.1 CU. YD.
- 13 | 24" DIA SS, CL A, TY 3  
LENGTH = 130.9'  
SLOPE = 0.1%  
TBF = 179 CU. YD.
- 14 | 12" DIA SS, CL A, TY 2  
LENGTH = 16.6'  
SLOPE = 2.0%  
TBF = 5.0 CU. YD.
- 15 | 12" DIA SS, CL A, TY 2  
LENGTH = 39.5'  
SLOPE = 0.9%  
TBF = 56.5 CU. YD.
- 16 | 10" DIA SS, CL A, TY 1  
LENGTH = 41.3'  
SLOPE = 1.5%  
TBF = 8.2 CU. YD.
- 17 | 10" DIA SS, CL A, TY 1  
LENGTH = 47.0'  
SLOPE = 1.7%  
TBF = 7.9 CU. YD.
- 18 | 10" DIA SS, CL A, TY 1  
LENGTH = 28.0'  
SLOPE = 2.0%  
TBF = 4.5 CU. YD.
- 19 | 10" DIA SS, CL A, TY 2  
LENGTH = 35.2'  
SLOPE = 1.7%  
TBF = 6.7 CU. YD.





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

UTILITY OWNERS	
AT&T	- FIBER OPTIC
COMCAST	- CABLE TV
COM-ED	- ELECTRIC
IDOT ITS	- FIBER OPTIC
NICOR	- GAS
SIDERA NETWORK	- FIBER OPTIC
VILLAGE OF LAGRANGE	- 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 SUE field investigation was performed 7/31/15 through 8/20/15. Changes to utilities after 8/20/15 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.


  

  
Engineers & Surveyors

TBE Job No. IL09510654  
SUE Plan Page: 1 of 1

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 MS	REVISED
DRAWN SRK	REVISED
CHECKED MGR	REVISED
DATE 9/3/15	REVISED

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

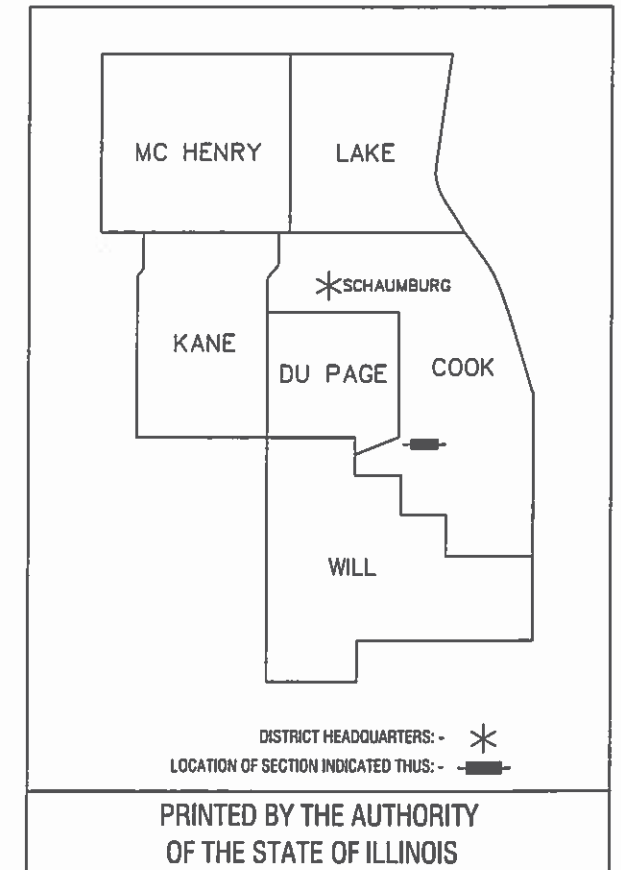
**US 12/2045 (LaGrange Rd.) at US 34 (Ogden Ave.)**  
**LaGrange, Illinois**

F.A.P. RTE. 330	SECTION 91Y-N-2	COUNTY COOK	TOTAL SHEETS 128	SHEET NO. 45
CONTRACT NO. 62A47				
FED. ROAD DIST. NO. ILLINOIS IDOT Project No.				

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION  
 DIVISION OF HIGHWAYS

# PLAT OF HIGHWAYS

ROUTE: US ROUTE 34 (OGDEN AVENUE)  
 SECTION:  
 COUNTY: COOK  
 LIMITS: US ROUTE 34 (OGDEN AVENUE)  
 AT US ROUTE 12/20/45 (LAGRANGE ROAD)  
 JOB NO.: R-90-014-14



LOCATION MAP  
 Not to Scale

PARCEL NUMBER	OWNER	SHEET NUMBER	PROPERTY ACQUIRED BY
OKT0001 OKT0001TE	Precision Communique USA, Inc., an Illinois corporation	2	
OKT0002 OKT0002TE	Young Men's Christian Association of Chicago, an Illinois not-for-profit corporation	4	
OKT0003TE	SDCO LaGrange Crossing, Inc., a Delaware Corporation	2 & 3	
OKT0004	SDCO LaGrange Crossing, Inc., a Delaware Corporation	2	

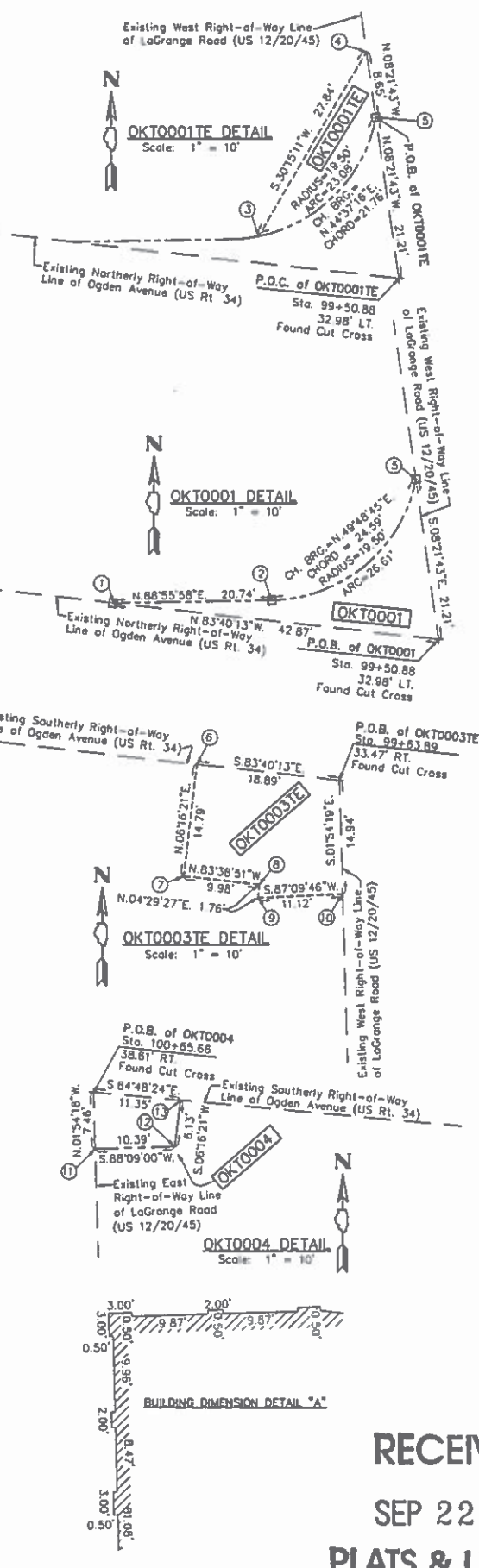
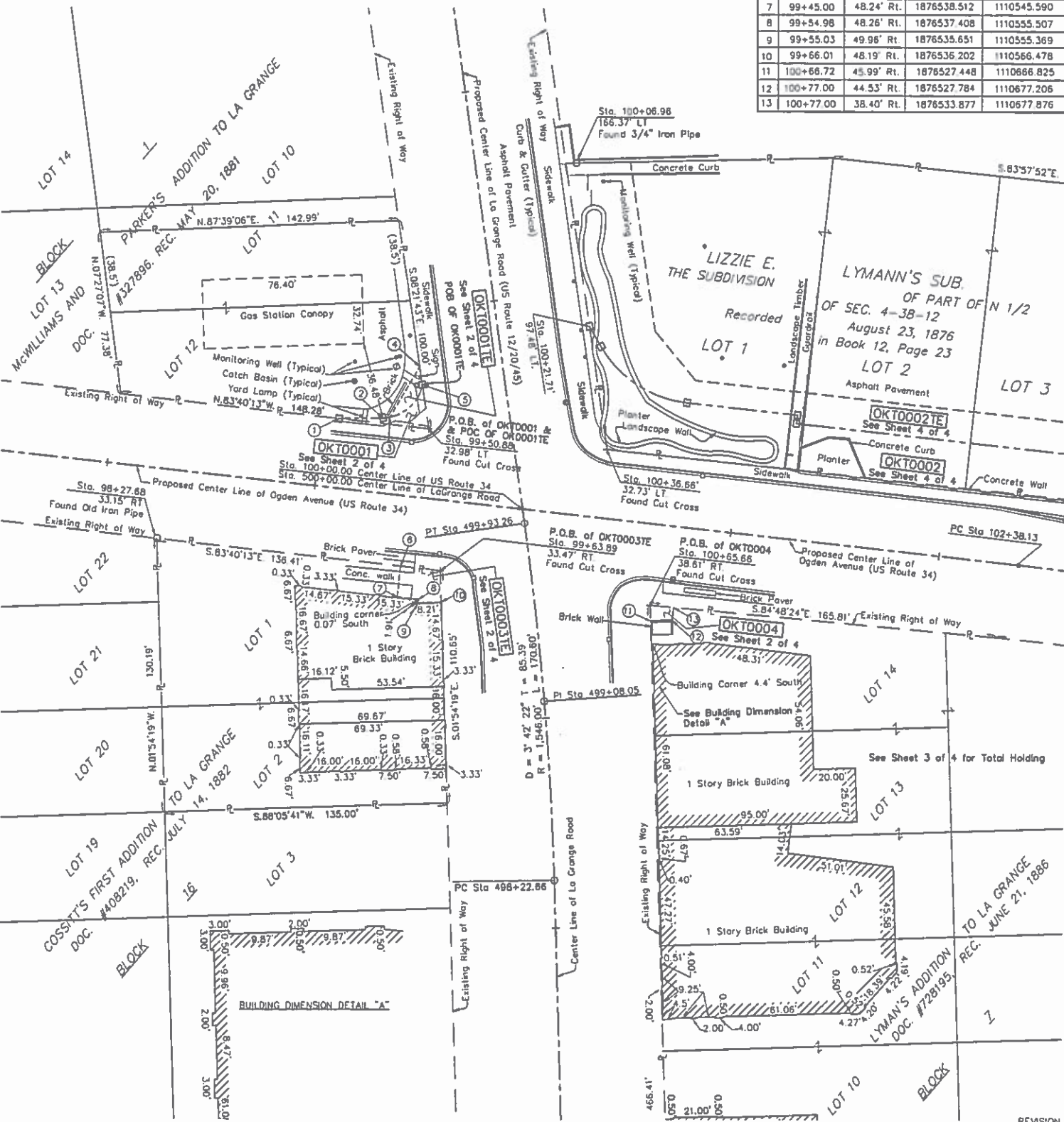
RECEIVED  
 SEP 22 2015  
 PLATS & LEGALS

SHEET 1 OF 4 SHEETS  
 IDOT USE ONLY

PARTS OF THE NW 1/4 AND NE 1/4 OF SECTION 4, TWP. 38 N., R. 12 E. OF THE 3RD. P.M., COOK COUNTY, ILLINOIS.

PARCEL NUMBER	TOTAL HOLDINGS ACRES	PART TAKEN ACRES	AREA IN EXISTING R.O.W. ACRES	REMAINDER AREA ACRES	EASEMENT AREA		PARCEL INDEX NUMBER
					ACRES	SQUARE FEET	
OKT0001	0.291	0.005 (205 Sq. Ft.)		0.286			18-04-103-019
OKT0001TE					0.003	124	
OKT0003TE	0.373				0.007	305	18-04-111-056 (pt.)
OKT0004	2.985	0.002 (74 Sq. Ft.)		2.983			18-04-206-036

COORDINATE TABLE						
ILLINOIS STATE PLANE COORDINATE SYSTEM, EAST ZONE, NAD 83 (2011 ADJUSTMENT)						
PT.	STATION	OFFSET	NORTH	EAST		
1	99+08.01	33.02' Lt.	1876623.330	1110517.700		
2	99+28.58	35.67' Lt.	1876623.716	1110538.437		
3	99+32.02	36.44' Lt.	1876624.102	1110541.940		
4	99+43.33	61.87' Lt.	1876648.146	1110555.964		
5	99+45.52	53.50' Lt.	1876639.589	1110557.223		
6	99+45.00	33.45' Rt.	1876553.212	1110547.206		
7	99+45.00	48.24' Rt.	1876538.512	1110545.590		
8	99+54.98	48.26' Rt.	1876537.408	1110555.507		
9	99+55.03	49.96' Rt.	1876535.651	1110555.369		
10	99+66.01	48.19' Rt.	1876536.202	1110566.478		
11	100+66.72	45.99' Rt.	1876527.448	1110666.825		
12	100+77.00	44.53' Rt.	1876527.784	1110677.206		
13	100+77.00	38.40' Rt.	1876533.877	1110677.876		



**LEGEND**

SECTION CORNER (5, 4, 3, 2, 1, 8, 9)      QUARTER SECTION CORNER

SECTION / QUARTER SECTION LINE

PLATTED LOT LINES

PROPERTY (DEED) LINE

APPL → APPL APPARENT PROPERTY LINE

EXISTING CENTERLINE

PROPOSED CENTERLINE

EXISTING RIGHT OF WAY LINE

PROPOSED RIGHT OF WAY LINE

EXISTING EASEMENT

PROPOSED EASEMENT

EXISTING ACCESS CONTROL LINE

PROPOSED ACCESS CONTROL LINE

MEASURED DIMENSION

COMPUTED DIMENSION

RECORDED DIMENSION

EXISTING BUILDING

0 30 60

SCALE: 1" = 30'

BEARINGS AND DISTANCES SHOWN HEREON REFERENCE THE ILLINOIS STATE PLANE COORDINATE SYSTEM, EAST ZONE, NORTH AMERICAN DATUM OF 1983 (2011 ADJUSTMENT) "GRID". ALL MEASURED AND CALCULATED DISTANCES ARE "GRID" NOT "GROUND". TO OBTAIN GROUND DISTANCES, DIVIDE GRID DISTANCES SHOWN BY THE COMBINATION FACTOR OF 0.99996741. AREAS SHOWN ON THIS PLAT ARE GROUND. ALL DIMENSIONS ARE MEASURED UNLESS OTHERWISE SPECIFIED.

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

■ 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. STANDARD 2135 (TO BE SET BY OTHERS)

□ RIGHT OF WAY STAKING PROPOSED TO BE SET

STATE OF ILLINOIS )  
 COUNTY OF KENDALL ) SS

THIS IS TO CERTIFY THAT WE, ASM CONSULTANTS, INC., AN ILLINOIS PROFESSIONAL DESIGN FIRM LAND SURVEYING CORPORATION, NUMBER 184-6014, HAVE SURVEYED THE PLAT OF HIGHWAYS SHOWN HEREON IN SECTION 4, TOWNSHIP 38 NORTH, RANGE 12 EAST 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 PLANO, ILLINOIS THIS 14 DAY OF APRIL 2015, A.D.

ILLINOIS PROFESSIONAL LAND SURVEYOR NO. 035-3377  
 LICENSE EXPIRATION DATE: 11/30/2016.

THIS PROFESSIONAL SERVICE CONFORMS TO THE CURRENT ILLINOIS MINIMUM STANDARDS FOR A BOUNDARY SURVEY.



**PLAT OF HIGHWAYS**  
 STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION  
 US ROUTE 34

LIMIT: US Rt. 34 (Ogden Ave.) & COUNTY: COOK  
 US Rt. 12/20/45/ (LaGrange Rd.) JOB NO.: R-90-014-14

SECTION:  
 STA. 99+08.01 TO STA. 104+74.25

SCALE: 1" = 30' SHEET 2 OF 4 SHEETS

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

RECEIVED  
 SEP 22 2015  
 PLATS & LEGALS

REVISION DATE: / / REVISION MADE BY:



PARTS OF THE NW 1/4 AND NE 1/4 OF SECTION 4, TWP. 38 N., R. 12 E. OF THE 3RD. P.M., COOK COUNTY, ILLINOIS.

**LEGEND**

SECTION CORNER: 5 4 / 8 9

QUARTER SECTION CORNER: 5 4

- SECTION / QUARTER SECTION LINE
- PLATTED LOT LINES
- PROPERTY (DEED) LINE
- APPARENT PROPERTY LINE
- EXISTING CENTERLINE
- PROPOSED CENTERLINE
- EXISTING RIGHT OF WAY LINE
- PROPOSED RIGHT OF WAY LINE
- EXISTING EASEMENT
- PROPOSED EASEMENT
- EXISTING ACCESS CONTROL LINE
- PROPOSED ACCESS CONTROL LINE
- MEASURED DIMENSION
- COMPUTED DIMENSION (129.32')
- RECORDED DIMENSION (129.32')
- EXISTING BUILDING

BEARINGS AND DISTANCES SHOWN HEREON REFERENCE THE ILLINOIS STATE PLANE COORDINATE SYSTEM, EAST ZONE, NORTH AMERICAN DATUM OF 1983 (2011 ADJUSTMENT) "GRID". ALL MEASURED AND CALCULATED DISTANCES ARE "GRID" NOT "GROUND". TO OBTAIN GROUND DISTANCES, DIVIDE GRID DISTANCES SHOWN BY THE COMBINATION FACTOR OF 0.99998741. AREAS SHOWN ON THIS PLAT ARE GROUND. ALL DIMENSIONS ARE MEASURED UNLESS OTHERWISE SPECIFIED.

- IRON PIPE OR ROD FOUND
- ⊕ "MAG" OR "FK" NAIL SET OR FOUND CUT CROSS FOUND OR SET
- ⊕ 5/8" REBAR SET
- 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. STANDARD 2135 (TO BE SET BY OTHERS)
- RIGHT OF WAY STAKING PROPOSED TO BE SET



STATE OF ILLINOIS ) ) SS  
 COUNTY OF KENDALL ) )

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DATED AT PLANO, ILLINOIS THIS 14th DAY OF APRIL, 2015 A.D.

ILLINOIS PROFESSIONAL LAND SURVEYOR NO. 35-3377  
 LICENSE EXPIRATION DATE: 11/30/2018.

THIS PROFESSIONAL SERVICE CONFORMS TO THE CURRENT ILLINOIS MINIMUM STANDARDS FOR A BOUNDARY SURVEY.



**PLAT OF HIGHWAYS**  
 STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION  
 US ROUTE 34

LIMIT: US Rt. 34 (Ogden Ave.) & COUNTY: COOK  
 US Rt. 12/20/45/ (LaGrange Rd.) JOB NO.: R-90-014-14

SECTION:  
 STA. 99+08.01 TO STA. 104+74.25

SCALE: 1" = 30' SHEET 3 OF 4 SHEETS

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

RECEIVED  
 SEP 22 2015  
 PLATS & LEGALS

REVISION DATE: / / REVISION MADE BY:

PARTS OF THE NW 1/4 AND NE 1/4 OF SECTION 4, TWP. 38 N., R. 12 E. OF THE 3RD. P.M., COOK COUNTY, ILLINOIS.

PARCEL NUMBER	TOTAL HOLDINGS ACRES	PART TAKEN ACRES	AREA IN EXISTING R.O.W. ACRES	REMAINDER AREA ACRES	EASEMENT AREA		PARCEL INDEX NUMBER
					ACRES	SQUARE FEET	
OKT0002 OKT0002TE	2.852	0.196		2.656	0.210		18-04-201-007 18-04-201-008 18-04-201-009 18-04-201-014

COORDINATE TABLE				
ILLINOIS STATE PLANE COORDINATE SYSTEM, EAST ZONE, NAD 83 (2011 ADJUSTMENT)				
PT	STATION	OFFSET	NORTH	EAST
14	100+01.94	165.70' Lt.	1876744.956	1110825.563
15	100+21.71	89.98' Lt.	1876667.530	1110636.944
16	100+28.38	81.10' Lt.	1876657.965	1110642.607
17	100+32.35	169.72' Lt.	1876745.621	1110656.229
18	100+53.36	91.44' Lt.	1876665.518	1110668.549
19	100+71.37	59.12' Lt.	1876631.316	1110683.924
20	100+75.42	70.12' Lt.	1876641.916	1110688.163
21	101+25.27	55.12' Lt.	1876621.560	1110736.071
22	101+25.27	59.12' Lt.	1876625.536	1110736.508
23	103+02.03	57.15' Lt.	1876601.874	1110915.173
24	103+50.62	76.53' Lt.	1876610.985	1110969.575
25	103+61.96	59.65' Lt.	1876591.865	1110977.653
26	104+27.57	52.31' Lt.	1876567.175	1111042.575
27	104+74.25	64.37' Lt.	1876563.940	1111093.280

**LEGEND**

SECTION / QUARTER SECTION LINE  
 PLATTED LOT LINES  
 PROPERTY (DEED) LINE  
 AFFRONT PROPERTY LINE  
 EXISTING CENTERLINE  
 PROPOSED CENTERLINE  
 EXISTING RIGHT OF WAY LINE  
 PROPOSED RIGHT OF WAY LINE  
 EXISTING EASEMENT  
 PROPOSED EASEMENT  
 EXISTING ACCESS CONTROL LINE  
 PROPOSED ACCESS CONTROL LINE  
 MEASURED DIMENSION  
 COMPUTED DIMENSION  
 RECORDED DIMENSION  
 EXISTING BUILDING

129.32'  
129.32' (COMP)  
129.32'

0 30 60  
SCALE: 1" = 30'

BEARINGS AND DISTANCES SHOWN HEREON REFERENCE THE ILLINOIS STATE PLANE COORDINATE SYSTEM, EAST ZONE, NORTH AMERICAN DATUM OF 1983 (2011 ADJUSTMENT) "GRID". ALL MEASURED AND CALCULATED DISTANCES ARE "GRID" NOT "GROUND". TO OBTAIN GROUND DISTANCES, DIVIDE GRID DISTANCES SHOWN BY THE COMBINATION FACTOR OF 0.99998741. AREAS SHOWN ON THIS PLAT ARE GROUND. ALL DIMENSIONS ARE MEASURED UNLESS OTHERWISE SPECIFIED.

- IRON PIPE OR ROD FOUND
- ⊕ CUT CROSS FOUND OR SET
- ⊙ "MAG" OR "PK" NAIL SET OR FOUND
- 5/8" REBAR SET
- 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.
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DATED AT PLANO, ILLINOIS THIS 11th DAY OF APRIL, 2015 A.D.

ILLINOIS PROFESSIONAL LAND SURVEYOR NO. 035-3377  
 LICENSE EXPIRATION DATE: 11/30/2016.

THIS PROFESSIONAL SERVICE CONFORMS TO THE CURRENT ILLINOIS MINIMUM STANDARDS FOR A BOUNDARY SURVEY.



**PLAT OF HIGHWAYS**  
 STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION  
 US ROUTE 34

LIMIT: US Rt. 34 (Ogden Ave.) & COUNTY: COOK  
 US Rt. 12/20/45/ (LaGrange Rd.) JOB NO.: R-90-014-14

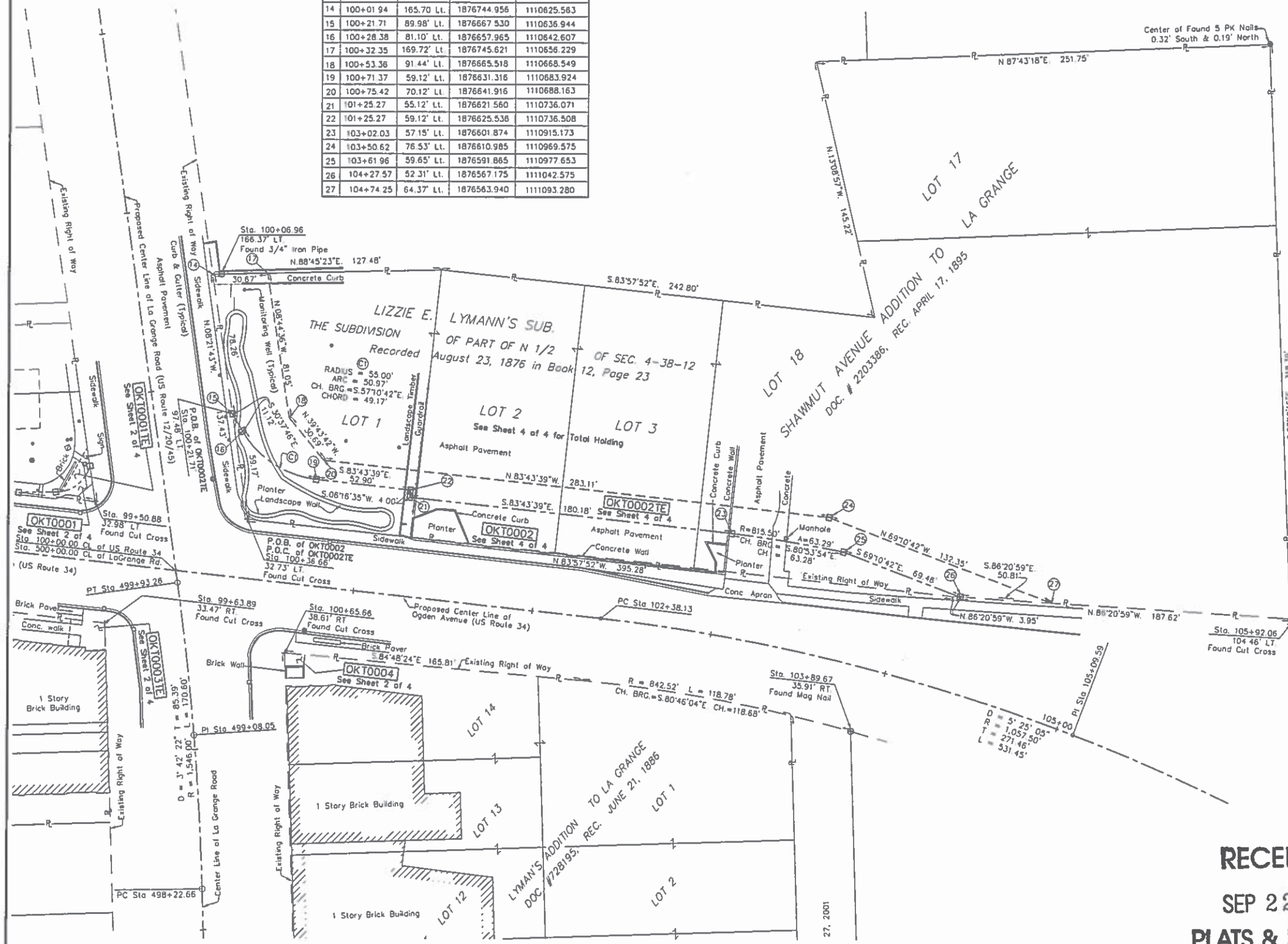
SECTION:  
 STA. 99+08.01 TO STA. 104+74.25

SCALE: 1" = 30' SHEET 4 OF 4 SHEETS

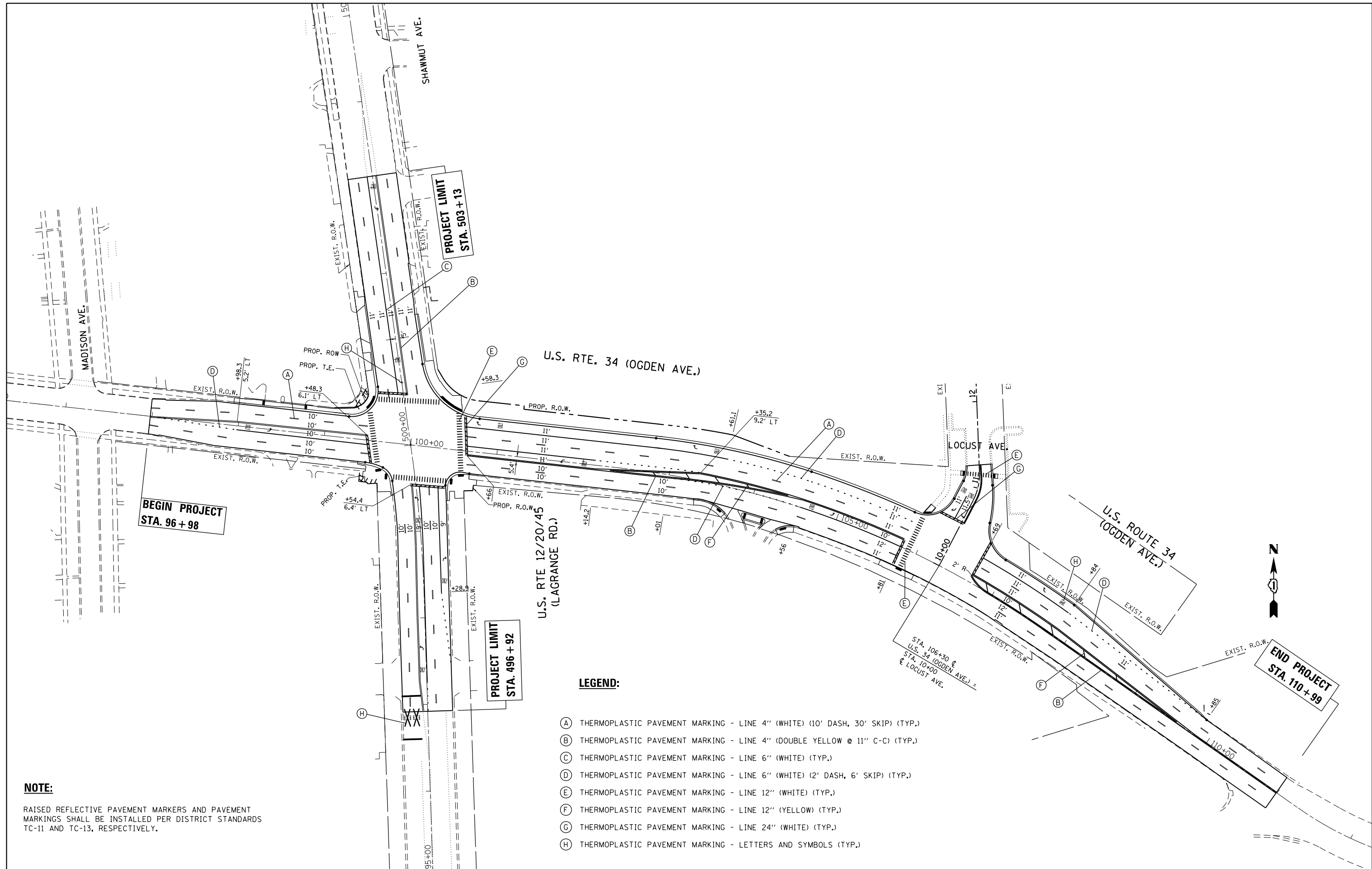
BUREAU OF LAND ACQUISITION  
 201 WEST CENTER COURT  
 SCHAUMBURG, ILLINOIS 60196

RECEIVED  
 SEP 22 2015  
 PLATS & LEGALS

REVISION DATE: / / REVISION MADE BY:







**NOTE:**

RAISED REFLECTIVE PAVEMENT MARKERS AND PAVEMENT MARKINGS SHALL BE INSTALLED PER DISTRICT STANDARDS TC-11 AND TC-13, RESPECTIVELY.

**LEGEND:**

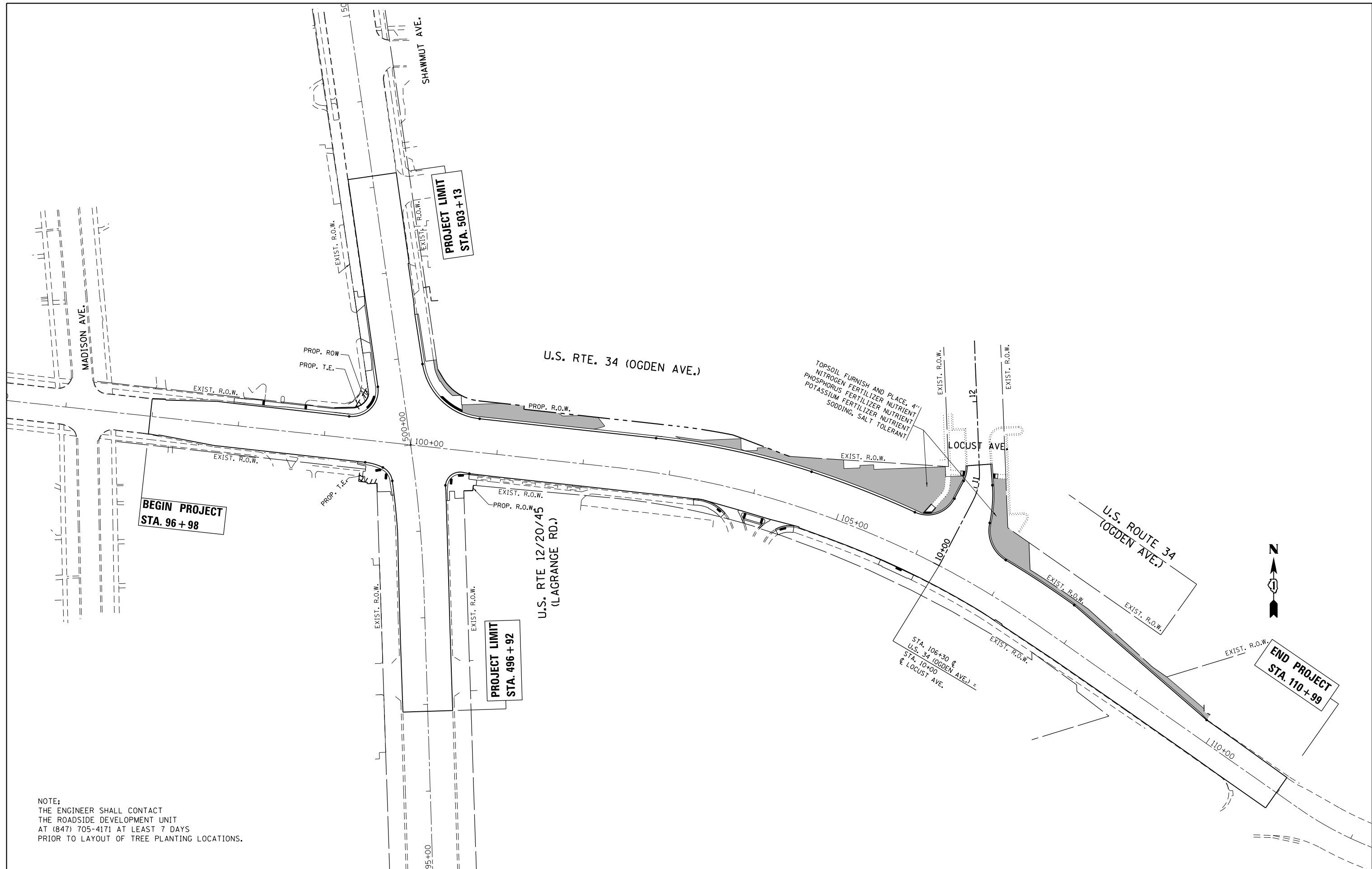
- (A) THERMOPLASTIC PAVEMENT MARKING - LINE 4" (WHITE) (10' DASH, 30' SKIP) (TYP.)
- (B) THERMOPLASTIC PAVEMENT MARKING - LINE 4" (DOUBLE YELLOW @ 11" C-C) (TYP.)
- (C) THERMOPLASTIC PAVEMENT MARKING - LINE 6" (WHITE) (TYP.)
- (D) THERMOPLASTIC PAVEMENT MARKING - LINE 6" (WHITE) (2' DASH, 6' SKIP) (TYP.)
- (E) THERMOPLASTIC PAVEMENT MARKING - LINE 12" (WHITE) (TYP.)
- (F) THERMOPLASTIC PAVEMENT MARKING - LINE 12" (YELLOW) (TYP.)
- (G) THERMOPLASTIC PAVEMENT MARKING - LINE 24" (WHITE) (TYP.)
- (H) THERMOPLASTIC PAVEMENT MARKING - LETTERS AND SYMBOLS (TYP.)

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	PLOT DATE = 11/2/2016	DATE -	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

<b>PAVEMENT MARKING PLAN</b>			
<b>U.S. ROUTE 12/20/45 AT U.S. ROUTE 34</b>			
SCALE: 1"=50'	SHEET	OF SHEETS	STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
330	91Y-N-2	COOK	128	50
CONTRACT NO. 62A47				
ILLINOIS FED. AID PROJECT				



NOTE:  
 THE ENGINEER SHALL CONTACT  
 THE ROADSIDE DEVELOPMENT UNIT  
 AT (847) 705-4171 AT LEAST 7 DAYS  
 PRIOR TO LAYOUT OF TREE PLANTING LOCATIONS.



FILE NAME =	USER NAME = toriafm	DESIGNED -	REVISED -
p:\11\084EBIDINTEG.illinois.gov\PI\DOT\Documents\DOT Offices\District 1\Projects\PI1381\Drawings\CADsheets\PI13812-shr-landscap		DRAWN -	REVISED -
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	PLOT DATE = 11/2/2016	DATE -	REVISED -

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**LANDSCAPING PLAN  
 U.S. ROUTE 12/20/45 AT U.S. ROUTE 34**

SCALE: 1"=50'      SHEET    OF    SHEETS    STA.            TO    STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
330	91Y-N-2	COOK	128	51
CONTRACT NO. 62A47				
ILLINOIS FED. AID PROJECT				

# TRAFFIC SIGNAL LEGEND

(NOT TO SCALE)

ITEM	EXISTING	PROPOSED	ITEM	EXISTING	PROPOSED	ITEM	EXISTING	PROPOSED
CONTROLLER CABINET			HANDHOLE -SQUARE -ROUND	 	 	SIGNAL HEAD -(P) PROGRAMMABLE SIGNAL HEAD		
COMMUNICATION CABINET			HEAVY DUTY HANDHOLE -SQUARE -ROUND	 	 	SIGNAL HEAD WITH BACKPLATE -(P) PROGRAMMABLE SIGNAL HEAD -(RB) RETROREFLECTIVE BACKPLATE		
MASTER CONTROLLER			DOUBLE HANDHOLE			PEDESTRIAN SIGNAL HEAD AT RAILROAD INTERSECTIONS		
MASTER MASTER CONTROLLER			JUNCTION BOX			PEDESTRIAN SIGNAL HEAD WITH COUNTDOWN TIMER		
UNINTERRUPTABLE POWER SUPPLY			RAILROAD CANTILEVER MAST ARM			ILLUMINATED SIGN "NO LEFT TURN"/"NO RIGHT TURN"		
SERVICE INSTALLATION -(P) POLE MOUNTED			RAILROAD FLASHING SIGNAL			NUMBER OF CONDUCTORS, ELECTRIC CABLE NO. 14, UNLESS NOTED OTHERWISE. ALL DETECTOR LOOP CABLE TO BE SHIELDED		
SERVICE INSTALLATION -(G) GROUND MOUNTED -(GM) GROUND MOUNTED METERED	 	 	RAILROAD CROSSING GATE			GROUND CABLE IN CONDUIT, NO. 6 SOLID COPPER (GREEN)		
TELEPHONE CONNECTION			RAILROAD CROSSBUCK			ELECTRIC CABLE IN CONDUIT, TRACER NO. 14 1/C		
STEEL MAST ARM ASSEMBLY AND POLE			RAILROAD CONTROLLER CABINET			COAXIAL CABLE		
ALUMINUM MAST ARM ASSEMBLY AND POLE			UNDERGROUND CONDUIT (UC), GALVANIZED STEEL			VENDOR CABLE		
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE WITH LUMINAIRE			TEMPORARY SPAN WIRE, TETHER WIRE, AND CABLE			COPPER INTERCONNECT CABLE, NO. 18, 3 PAIR TWISTED, SHIELDED		
SIGNAL POST -(BM) BARREL MOUNTED - TEMPORARY			SYSTEM ITEM	S	SP	FIBER OPTIC CABLE -NO. 62.5/125, MM12F -NO. 62.5/125, MM12F SM12F -NO. 62.5/125, MM12F SM24F		
WOOD POLE			INTERSECTION ITEM	I	IP	GROUND ROD -(C) CONTROLLER -(M) MAST ARM -(P) POST -(S) SERVICE		
GUY WIRE			REMOVE ITEM		R			
SIGNAL HEAD			RELOCATE ITEM		RL			
SIGNAL HEAD WITH BACKPLATE			ABANDON ITEM		A			
SIGNAL HEAD OPTICALLY PROGRAMMED			CONTROLLER CABINET AND FOUNDATION TO BE REMOVED		RCF			
FLASHER INSTALLATION -(FS) SOLAR POWERED	 	 	MAST ARM POLE AND FOUNDATION TO BE REMOVED		RMF			
PEDESTRIAN SIGNAL HEAD			SIGNAL POST AND FOUNDATION TO BE REMOVED		RPF			
PEDESTRIAN PUSH BUTTON -(APS) ACCESSIBLE PEDESTRIAN PUSH BUTTON			DETECTOR LOOP, TYPE 1	 	 			
RADAR DETECTION SENSOR			PREFORMED DETECTOR LOOP	 	 			
VIDEO DETECTION CAMERA			SAMPLING (SYSTEM) DETECTOR	 	 			
RADAR/VIDEO DETECTION ZONE			INTERSECTION AND SAMPLING (SYSTEM) DETECTOR	 	 			
PAN, TILT, ZOOM (PTZ) CAMERA			QUEUE AND SAMPLING (SYSTEM) DETECTOR	 	 			
EMERGENCY VEHICLE LIGHT DETECTOR			WIRELESS DETECTOR SENSOR					
CONFIRMATION BEACON			WIRELESS ACCESS POINT					
WIRELESS INTERCONNECT								
WIRELESS INTERCONNECT RADIO REPEATER								

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 STATE OF ILLINOIS - PROFESSIONAL DESIGN FIRM  
 2300 N. WILSON AVENUE, SUITE 100  
 DEERFIELD, IL 60015  
 708.441.1100  
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**TS SHT NO. 1**

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**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**DISTRICT ONE  
STANDARD TRAFFIC SIGNAL DESIGN DETAILS**

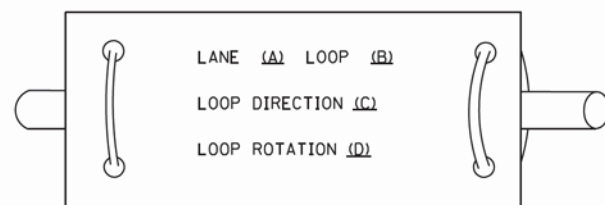
SCALE: NONE    SHEET 1 OF 7 SHEETS    STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
330	91Y-N-2	COOK	128	52
<b>TS-05</b>		<b>CONTRACT NO. 62A47</b>		
ILLINOIS FED. AID PROJECT C-91-138-12				

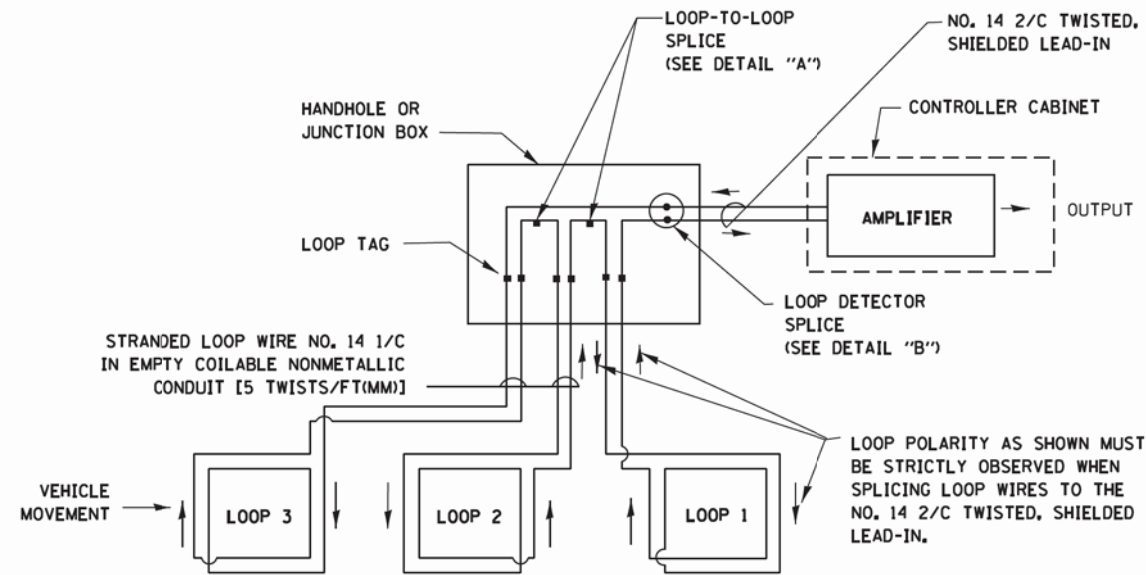
**LOOP DETECTOR NOTES**

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

**LOOP LEAD-IN CABLE TAG**

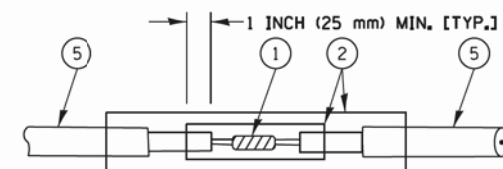


- LANE 1 IS THE LANE CLOSEST TO THE CENTERLINE OF THE ROADWAY
- LOOP #1 IS THE LOOP IN THE LANE CLOSEST TO THE INTERSECTION.
- LABEL LOOP CABLE "IN" OR LOOP CABLE "OUT".
- LABEL LOOP CABLE CLOCKWISE OR LOOP CABLE COUNTERCLOCKWISE.

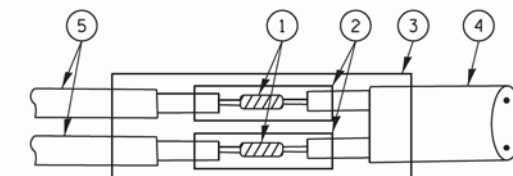


**DETECTOR LOOP WIRING SCHEMATIC**

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

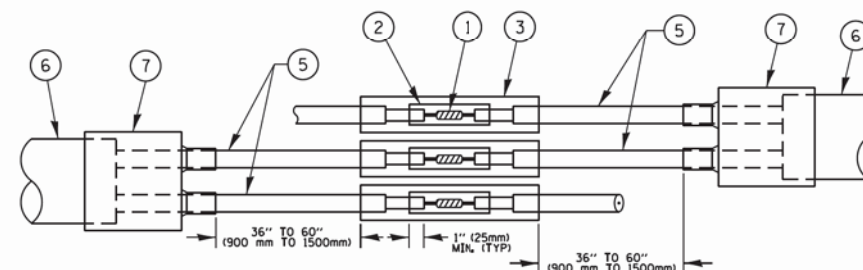


DETAIL "A"  
LOOP-TO-LOOP SPLICE

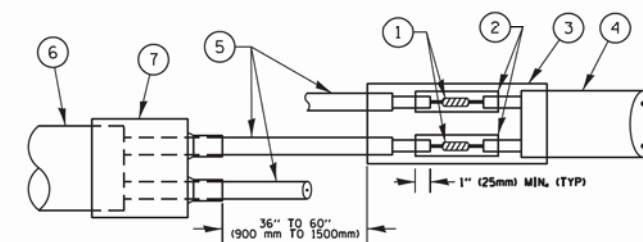


DETAIL "B"  
LOOP-TO-CONTROLLER SPLICE

**TYPE I LOOP**



DETAIL "A"  
LOOP-TO-LOOP SPLICE



DETAIL "B"  
LOOP-TO-CONTROLLER SPLICE

**PRE-FORMED LOOP**

**LOOP DETECTOR SPLICE**

- WESTERN UNION SPLICE SOLDERED WITH ROSIN CORE FLUX. ALL EXPOSED SURFACES OF THE SOLDER SHALL BE SMOOTH. THE WESTERN UNION SPLICES SHALL BE STAGGERED.
- WCSMW 30/100 HEAT SHRINK TUBE, MINIMUM LENGTH 3" (75 mm), UNDERWATER GRADE.
- WCS 200/750 HEAT SHRINK TUBE, MINIMUM LENGTH 6" (150 mm), UNDERWATER GRADE.
- NO. 14 2/C TWISTED, SHIELDED CABLE.
- LOOP CONDUCTOR WITH FLEXIBLE PLASTIC TUBE.
- PRE-FORMED LOOP
- XL POLYOLEFIN 2 CONDUCTOR BREAKOUT SEALS, TYCO CBR-2 OR APPROVED EQUAL

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**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

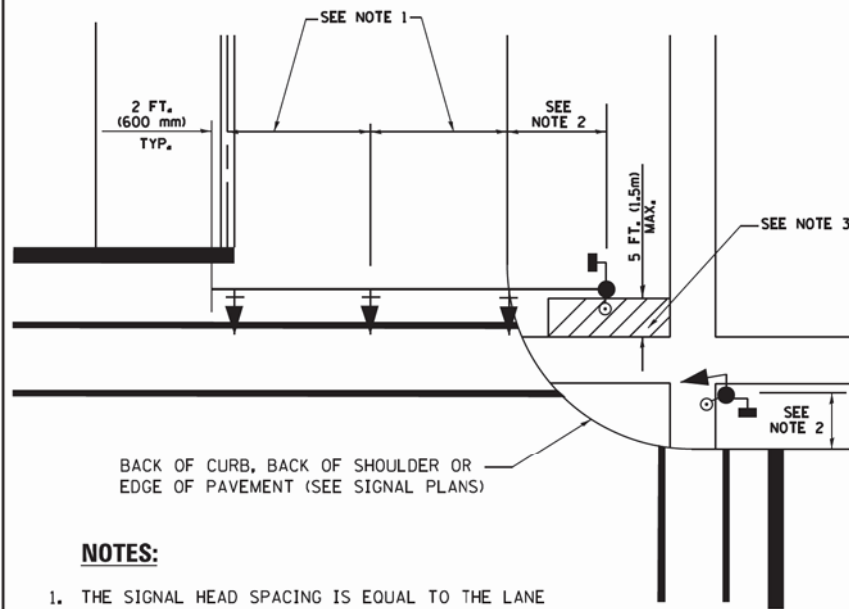
**DISTRICT ONE  
STANDARD TRAFFIC SIGNAL DESIGN DETAILS**

SCALE: NONE SHEET 2 OF 7 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
330	91Y-N-2	COOK	128	53
TS-05		CONTRACT NO. 62A47		
ILLINOIS FED. AID PROJECT C-91-138-12				



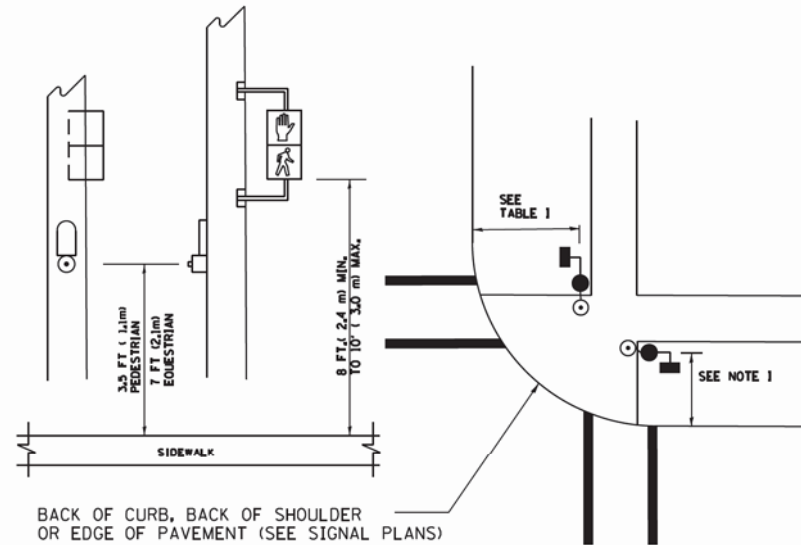
**TRAFFIC SIGNAL MAST ARM AND SIGNAL POST  
MAST ARM MOUNTED SIGNALS IN EXISTING, PROPOSED OR  
FUTURE SIDEWALK/BICYCLE PATH AREA. INTERSECTION SHOWN  
WITH PEDESTRIAN SIGNALS AND PEDESTRIAN PUSHBUTTON DETECTORS.**



**NOTES:**

1. THE SIGNAL HEAD SPACING IS EQUAL TO THE LANE WIDTH OR AS SHOWN ON THE TRAFFIC SIGNAL PLAN.
2. REFER TO THE TRAFFIC SIGNAL EQUIPMENT OFFSET TABLE.
3. PROVIDE A LEVEL ALL-WEATHER SURFACE (CONCRETE SIDEWALK, ASPHALT BICYCLE PATH SURFACE OR MATCHING MATERIAL TO THE ADJACENT SURFACE) UP TO THE MAST ARM SHAFT OR THE SIGNAL POST.
4. THE FACE OF THE PEDESTRIAN PUSHBUTTON SHALL BE PARALLEL TO THE CROSSWALK TO BE USED.
5. THE LOCATIONS AND INSTALLATION OF PEDESTRIAN SIGNAL HEADS AND PEDESTRIAN PUSHBUTTONS SHALL MEET THE REQUIREMENTS OF THE MUTCD AND INFORMATION FOUND IN THE "AMERICANS WITH DISABILITIES ACT ACCESSIBILITY GUIDELINES FOR BUILDINGS AND FACILITIES."

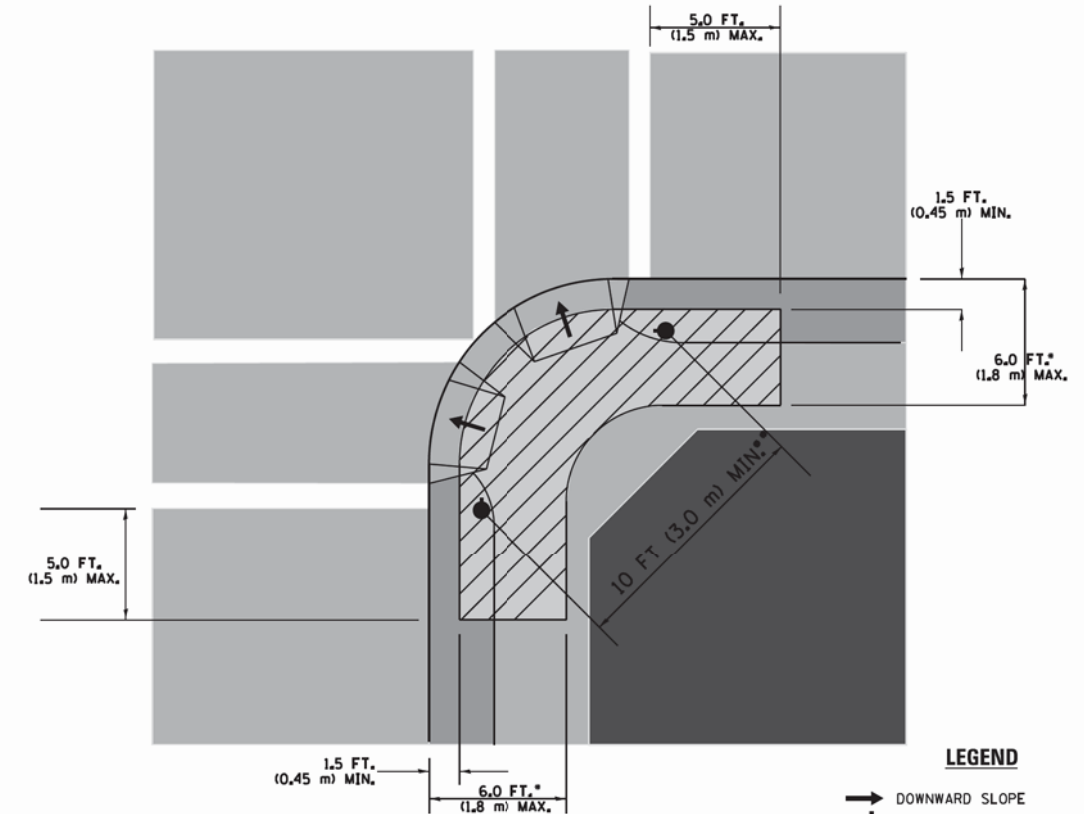
**PEDESTRIAN SIGNAL POST  
AND  
PEDESTRIAN PUSH BUTTON POST**



**NOTES:**

1. REFER TO THE TRAFFIC SIGNAL EQUIPMENT OFFSET TABLE.
2. PROVIDE A LEVEL ALL-WEATHER SURFACE (CONCRETE SIDEWALK, ASPHALT BICYCLE PATH SURFACE OR MATCHING MATERIAL TO THE ADJACENT SURFACE) UP TO THE PEDESTRIAN SIGNAL POST OR THE PEDESTRIAN PUSH BUTTON POST.
3. THE FACE OF THE PEDESTRIAN PUSHBUTTON SHALL BE PARALLEL TO THE CROSSWALK TO BE USED.
4. THE LOCATIONS AND INSTALLATION OF PEDESTRIAN SIGNAL HEADS AND PEDESTRIAN PUSHBUTTONS SHALL MEET THE REQUIREMENTS OF THE MUTCD AND INFORMATION FOUND IN THE "AMERICANS WITH DISABILITIES ACT ACCESSIBILITY GUIDELINES FOR BUILDINGS AND FACILITIES."

**RECOMMENDED PUSHBUTTON LOCATIONS**



**LEGEND**

- DOWNWARD SLOPE
- PEDESTRIAN PUSHBUTTON
- ▨ RECOMMENDED PUSHBUTTON LOCATIONS

- WHERE THERE ARE CONSTRAINTS THAT MAKE IT IMPRACTICAL TO PLACE THE PEDESTRIAN PUSHBUTTON BETWEEN 1.5 FT (0.45 m) AND 6 FT (1.8 m) FROM THE EDGE OF THE CURB, SHOULDER, OR PAVEMENT, IT SHOULD NOT BE FURTHER THAN 10 FT (3 m) FROM THE EDGE OF CURB, SHOULDER, OR PAVEMENT.
- WHERE THERE ARE CONSTRAINTS ON A PARTICULAR CORNER THAT MAKE IT IMPRACTICAL TO PROVIDE THE 10 FT (3 m) SEPERATION BETWEEN THE TWO PEDESTRIAN PUSHBUTTONS, THE PUSHBUTTONS MAY BE PLACED CLOSER TOGETHER OR ON THE SAME POLE.

**NOTES:**

1. PEDESTRIAN SIGNAL HEADS SHALL BE MOUNTED WITH THE BOTTOM OF THE SIGNAL HOUSING INCLUDING BRACKETS NOT LESS THAN 8 FT (2.4 m) OR MORE THAN 10 FT (3 m) ABOVE SIDEWALK LEVEL, AND SHALL BE POSITIONED AND ADJUSTED TO PROVIDE MAXIMUM VISIBILITY AT THE BEGINNING OF THE CONTROLLED CROSSWALK.
2. THE BOTTOM OF THE SIGNAL HOUSING (INCLUDING BRACKETS) OF A VEHICULAR SIGNAL FACE THAT IS NOT LOCATED OVER A HIGHWAY SHALL BE AT LEAST 8 FT (2.4 m) BUT NOT MORE THAN 19 FT (5.8 m) ABOVE THE SIDEWALK OR, IF THERE IS NO SIDEWALK, ABOVE THE PAVEMENT GRADE AT THE CENTER OF THE ROADWAY.
3. THE BOTTOM OF THE SIGNAL HOUSING AND ANY RELATED ATTACHMENTS TO A SIGNAL FACE LOCATED OVER ANY PORTION OF A HIGHWAY SHALL BE ACCORDING TO CURRENT STATE STANDARDS 877001, 877002, 877006, 877011 AND 877012 WITH A MINIMUM OF 16 FT (5.0 m) AND A MAXIMUM OF 18 FT. (5.5 m) FROM THE HIGHEST POINT OF PAVEMENT.
4. THE BOTTOM OF THE TEMPORARY SPAN WIRE MOUNTED SIGNAL HOUSING AND ANY RELATED ATTACHMENTS TO A SIGNAL FACE LOCATED OVER ANY PORTION OF A HIGHWAY SHALL BE ACCORDING TO CURRENT STATE STANDARD 880001 WITH A MINIMUM OF 17 FT (5.18 m) FROM THE HIGHEST POINT OF PAVEMENT.
5. THE TOP OF THE SIGNAL HOUSING OF A SIGNAL FACE LOCATED OVER ANY PORTION OF A HIGHWAY SHALL NOT BE MORE THAN 25.6 FT (7.8 m) ABOVE THE PAVEMENT.

**TRAFFIC SIGNAL EQUIPMENT OFFSET**

TRAFFIC SIGNAL EQUIPMENT	COMBINATION CONCRETE CURB AND GUTTER (MINIMUM DISTANCE FROM BACK OF CURB TO CENTERLINE OF FOUNDATION)	SHOULDER/NON-CURBED AREA (MINIMUM DISTANCE FROM EDGE OF PAVEMENT TO CENTERLINE OF FOUNDATION)
TRAFFIC SIGNAL MAST ARM POLE	6 FT (1.8m)	SHOULDER WIDTH + 2 FT (0.6m), MINIMUM 10 FT (3.0m)
TRAFFIC SIGNAL POST	4 FT (1.2m)	SHOULDER WIDTH + 2 FT (0.6m), MINIMUM 10 FT (3.0m)
PEDESTRIAN SIGNAL POST	4 FT (1.2m)	SHOULDER WIDTH + 2 FT (0.6m), MINIMUM 10 FT (3.0m)
PEDESTRIAN PUSHBUTTON POST	4 FT (1.2m)	SHOULDER WIDTH + 2 FT (0.6m), MINIMUM 10 FT (3.0m)
TEMPORARY WOOD POLE	6 FT (1.8m)	SHOULDER WIDTH + 2 FT (0.6m), MINIMUM 10 FT (3.0m)
CONTROLLER CABINET	6 FT (1.8m) MINIMUM DISTANCE SEE NOTE 2	SHOULDER WIDTH + 6 FT (1.8m), MINIMUM 16 FT (4.9m) SEE NOTE 3.
SERVICE INSTALLATION, GROUND MOUNT	6 FT (1.8m) MINIMUM DISTANCE SEE NOTE 2	SHOULDER WIDTH + 6 FT (1.8m), MINIMUM 16 FT (4.9m) SEE NOTE 3.

**NOTES:**

1. CONTACT THE "AREA TRAFFIC SIGNAL MAINTENANCE AND OPERATIONS ENGINEER" FOR ASSISTANCE IN LOCATING THE TRAFFIC SIGNAL EQUIPMENT WHEN THERE ARE CONFLICTS WITH DITCHES OR THE MINIMUM OFFSET DISTANCES CANNOT BE MET.
2. MINIMUM DISTANCE FROM THE BACK OF CURB TO THE ROADWAY SIDE OF THE FOUNDATION.
3. MINIMUM DISTANCE FROM THE EDGE OF PAVEMENT TO THE ROADWAY SIDE OF THE FOUNDATION.
4. ANY CHANGES TO THE OFFSETS OF THE FOUNDATIONS, FROM THE MINIMUM DISTANCES LISTED IN THE "TRAFFIC SIGNAL EQUIPMENT OFFSET" CHART AND THE TRAFFIC SIGNAL INSTALLATION PLAN, COULD EFFECT THE PLACEMENT OF THE SIGNAL HEADS, PEDESTRIAN SIGNAL HEADS AND THE PEDESTRIAN PUSHBUTTONS. THE SIGNAL HEAD PLACEMENT ON THE MAST ARMS SHALL REMAIN AS PER THE TRAFFIC SIGNAL INSTALLATION PLAN AND THE "TRAFFIC SIGNAL MAST ARM AND SIGNAL POST" DETAIL ABOVE. THE PROPOSED MAST ARM LENGTHS MAY NEED TO BE REVISED TO MEET THE ABOVE REQUIREMENTS. THE PEDESTRIAN SIGNAL HEADS AND PEDESTRIAN PUSHBUTTONS MUST MEET THE REQUIREMENTS UNDER THE DETAILS ON THIS SHEET.

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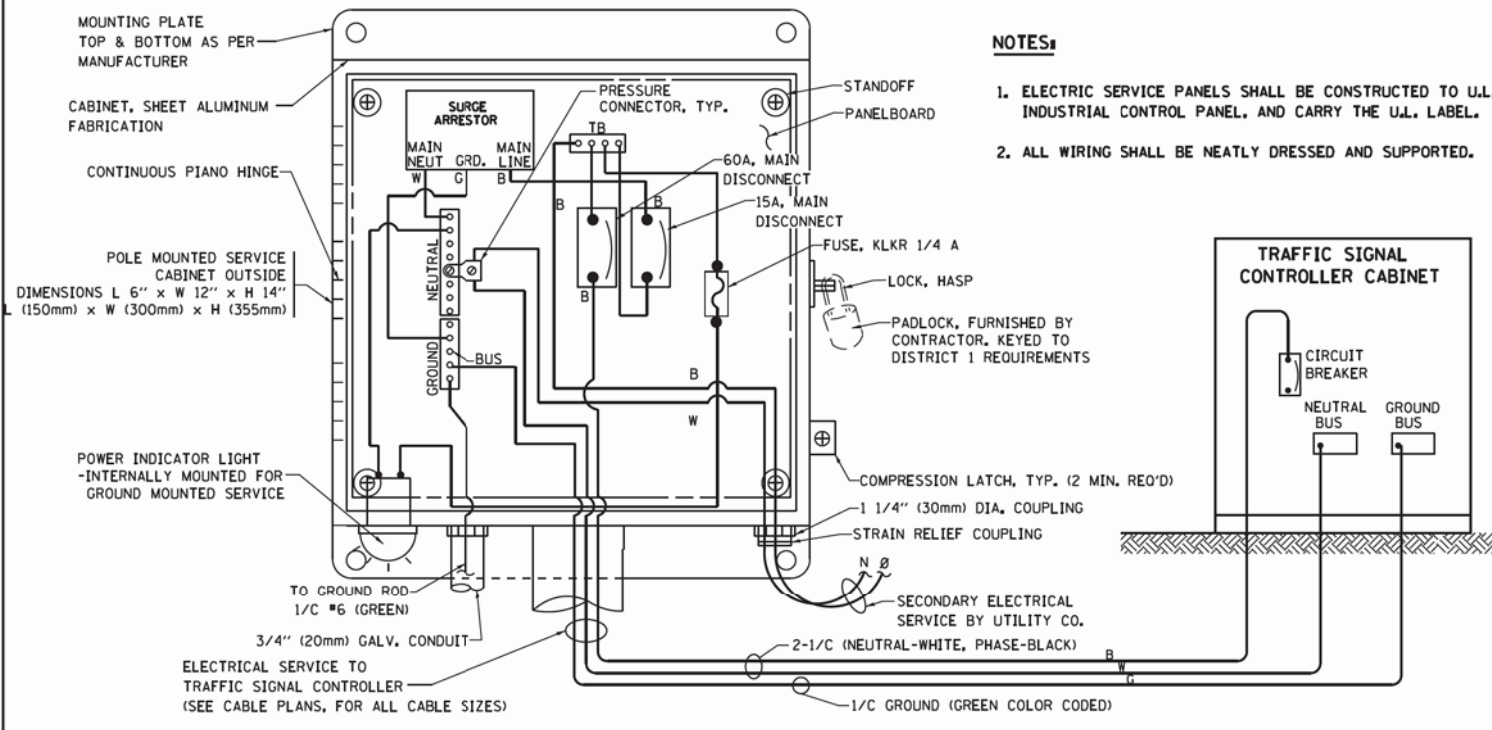
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**DISTRICT ONE  
STANDARD TRAFFIC SIGNAL DESIGN DETAILS**

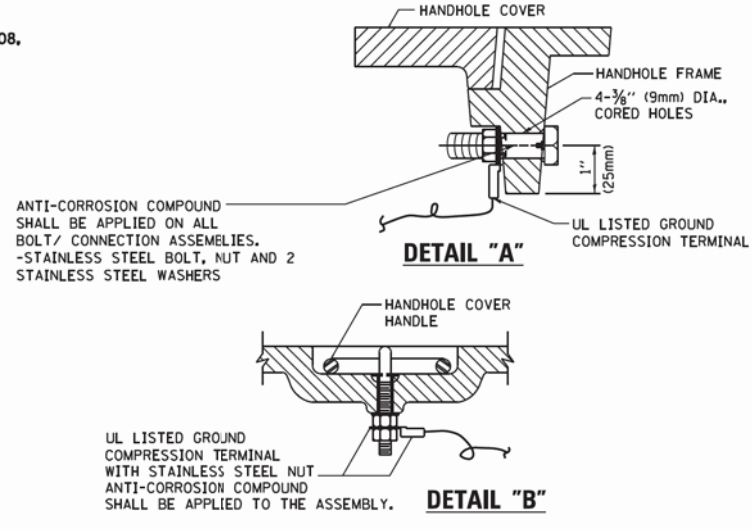
SCALE: NONE SHEET 3 OF 7 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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TS-05		CONTRACT NO. 62A47		
ILLINOIS FED. AID PROJECT C-91-138-12				

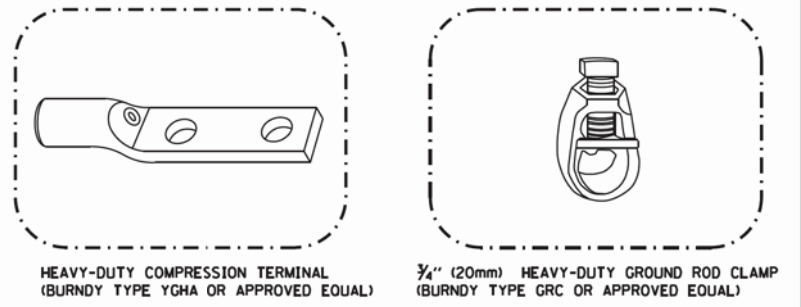
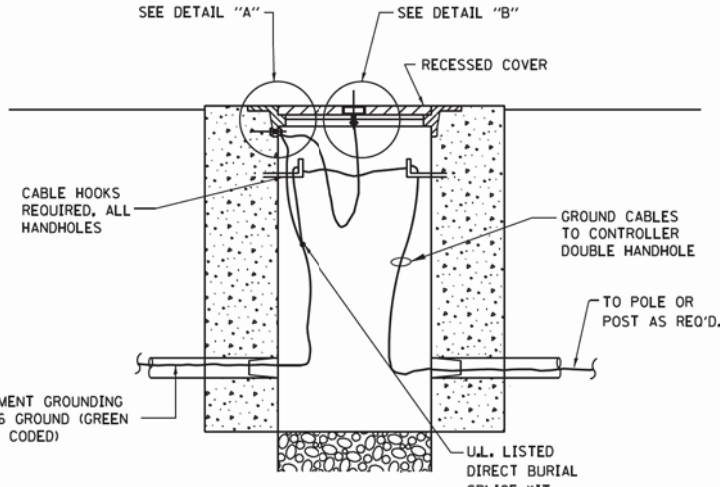




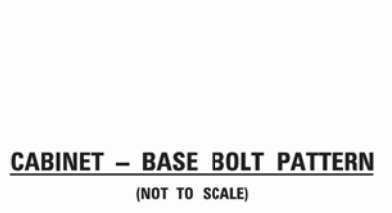
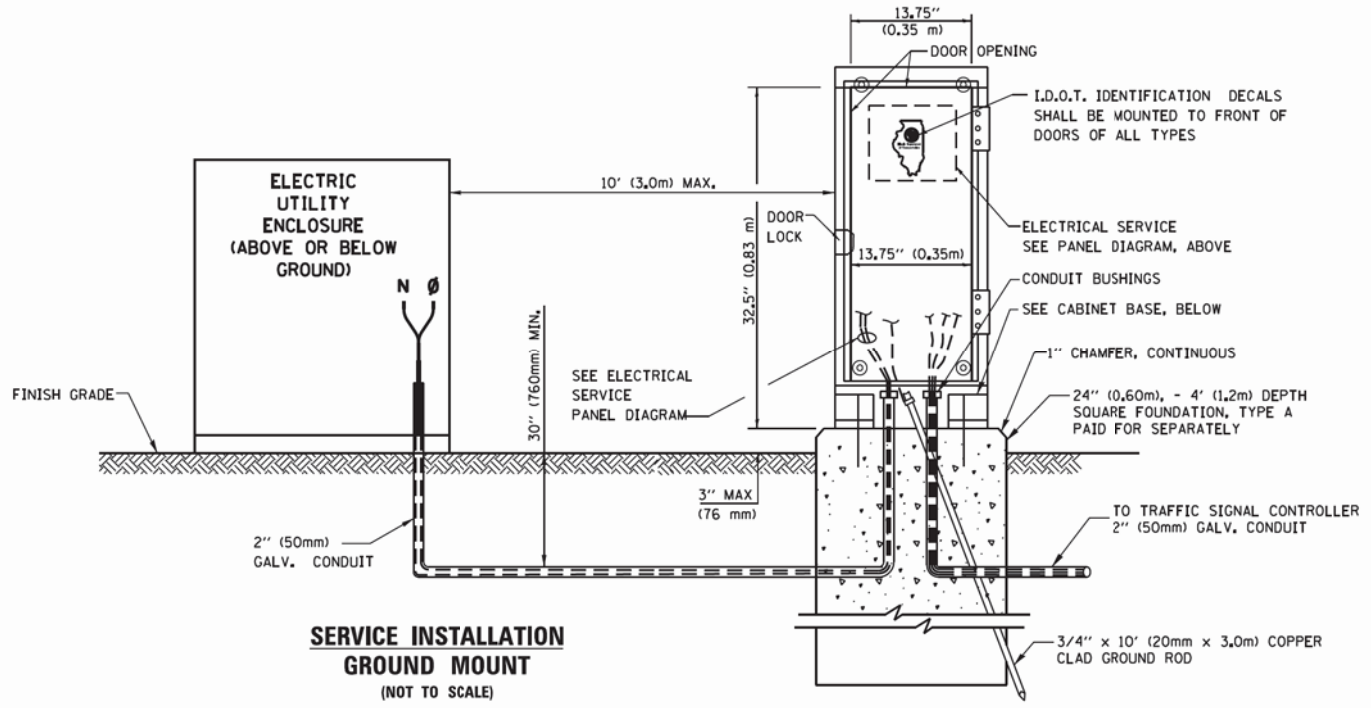
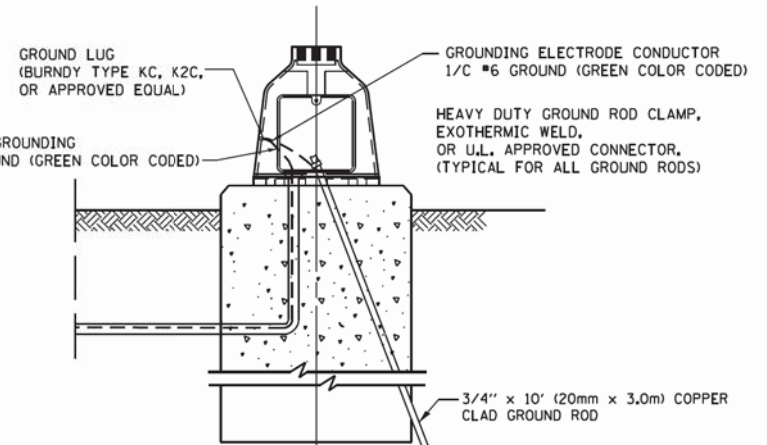
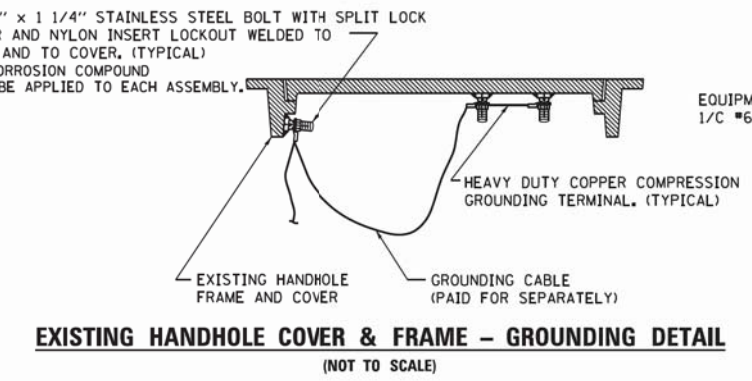
**ELECTRICAL SERVICE - PANEL DIAGRAM (TYPICAL FOR POLE AND GROUND MOUNTED SERVICE)**  
**SERVICE INSTALLATION POLE MOUNT (SHOWN)**  
 (NOT TO SCALE)



- NOTES:**
- GROUNDING SYSTEM**
- THE GROUNDING SYSTEM SHALL CONSIST OF AN INSULATED CONDUCTOR TYPE XLP, NO. 6 A.W.G., STRANDED COPPER TO BE INSTALLED IN RACEWAYS. THE GROUNDING CABLE SHALL BE INSTALLED IN A CONTINUOUS MANNER AS SHOWN ON THE CABLE PLAN PROVIDED. ALL GROUNDING CONDUCTORS SHALL BE BONDED TO METAL ENCLOSURE (HANDHOLE, POST, MAST ARM, CONTROLLER, ETC.). GROUND ROD SHALL BE 3/4" DIA. x 10'-0" (20mm x 3.0m) LONG, COPPER CLAD, ONE GROUND ROD SHALL BE INSTALLED AT ALL POST FOUNDATIONS, POLE FOUNDATIONS, CONTROLLER CABINET FOUNDATION AND ELECTRICAL SERVICE INSTALLATION AS INDICATED ON THE CABLE PLAN. IF THERE ARE ANY SPECIAL CONDITIONS SUCH AS SUB-SURFACE CONDITIONS OR INSTALLATION PROBLEMS, THE RESIDENT ENGINEER SHALL BE NOTIFIED OR CONTACT THE BUREAU OF TRAFFIC, ILLINOIS DEPARTMENT OF TRANSPORTATION DISTRICT ONE AT (847) 705-4139.
  - THE NEUTRAL CONDUCTOR AND THE GROUND CONDUCTOR SHALL BE CONNECTED IN THE SERVICE INSTALLATION. AT NO OTHER POINT IN THE TRAFFIC SIGNAL SYSTEM SHALL THE NEUTRAL AND GROUND CONDUCTORS BE CONNECTED.
  - ALL EQUIPMENT GROUNDING CONDUCTORS SHALL TERMINATE AT THE GROUND BUS IN THE CONTROLLER CABINET.
  - THE CONTRACTOR SHALL PROVIDE A GROUND CABLE WITH CONNECTORS BETWEEN THE HANDHOLE COVER AND HANDHOLE FRAME.



- NOTES:**
- ALL CLAMPS SHALL BE BRONZE OR COPPER, UL APPROVED.
  - GROUND CABLE SHALL BE LOOPED OVER HOOKS IN THE HANDHOLES. 6.5' (2.0m) SLACK SHALL BE PROVIDED IN SINGLE HANDHOLES. 13' (4.0m) OF SLACK SHALL BE PROVIDED IN DOUBLE HANDHOLES. 5' (1.4m) OF SLACK SHALL BE PROVIDED BETWEEN FRAME AND COVER.



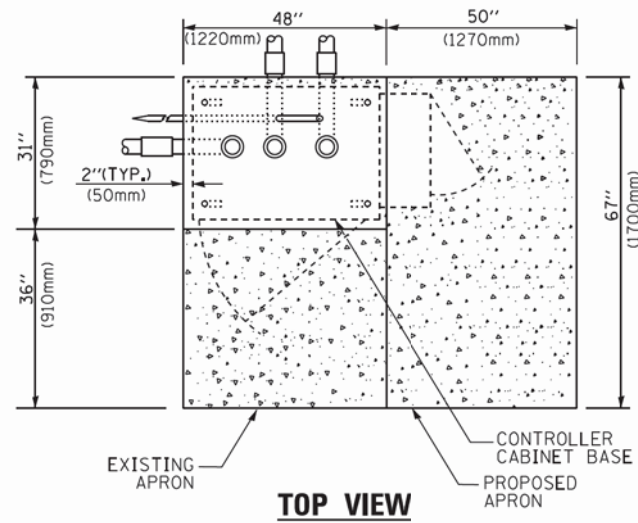
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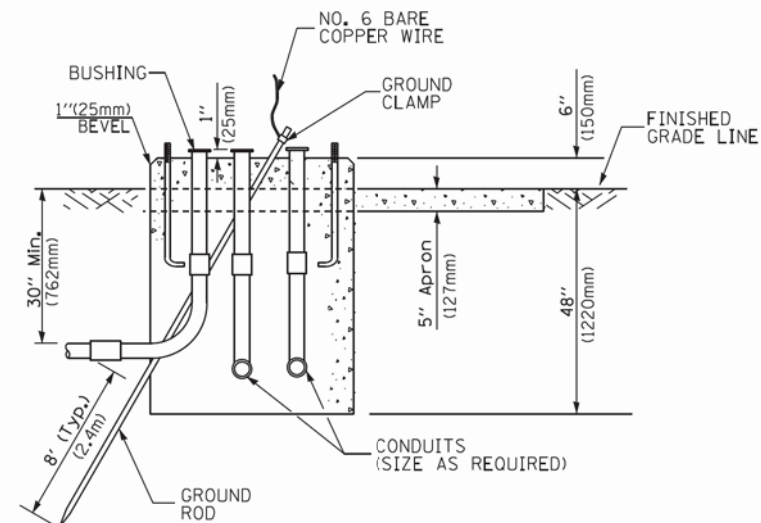
**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

<b>DISTRICT ONE</b>		F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
<b>STANDARD TRAFFIC SIGNAL DESIGN DETAILS</b>		330	91Y-N-2	COOK	128	55
SCALE: NONE		TS-05		CONTRACT NO. 62A47		
SHEET 4	OF 7 SHEETS	STA.	TO STA.	ILLINOIS FED. AID PROJECT C-91-138-12		

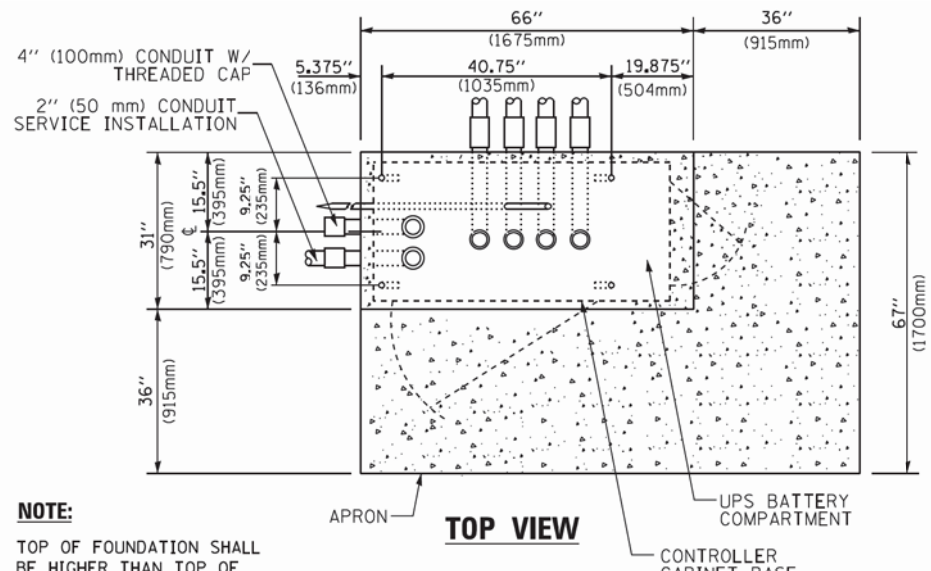




**TOP VIEW**

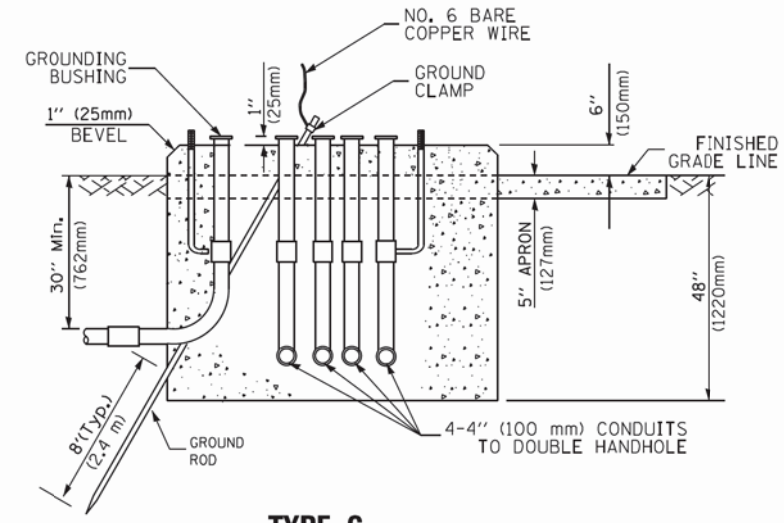


**TYPE D  
FOR GROUND MOUNTED  
CONTROLLER CABINET  
AND UPS BATTERY CABINET**

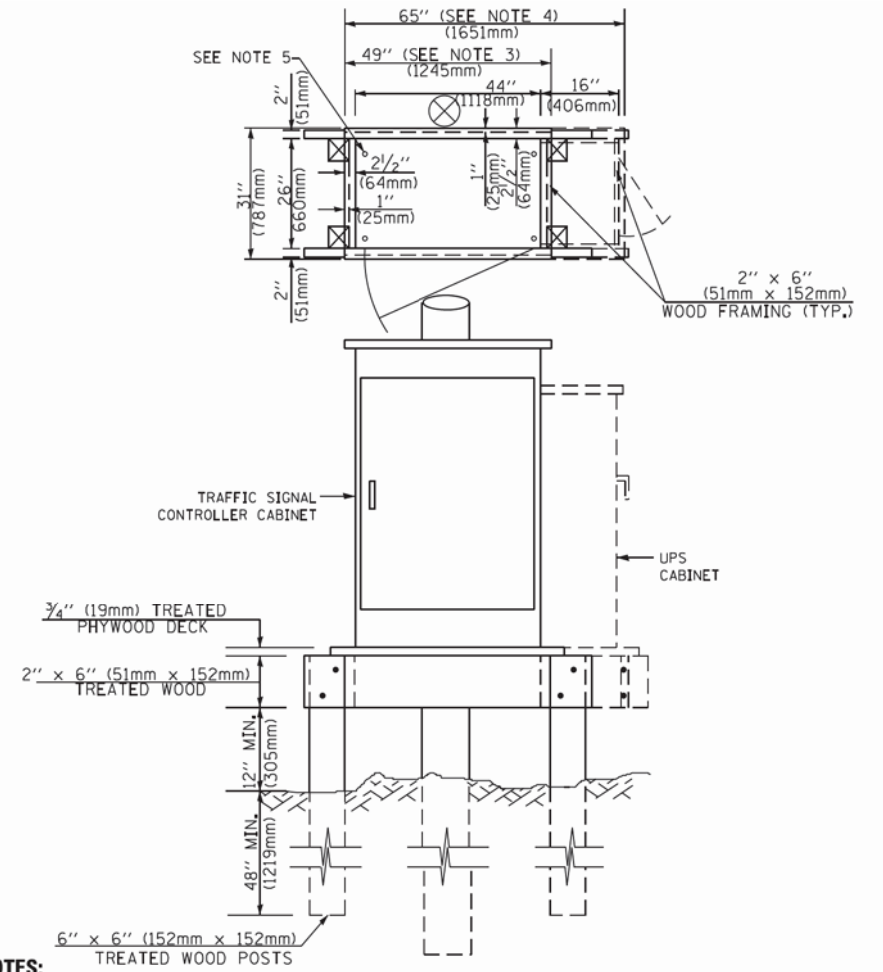


**TOP VIEW**

**NOTE:**  
TOP OF FOUNDATION SHALL BE HIGHER THAN TOP OF DOUBLE HANDHOLE



**TYPE C  
FOR GROUND MOUNTED  
SUPER P (TYPE IV) AND SUPER R (TYPE V)  
CONTROLLER CABINETS**



**NOTES:**

1. BASED ON CONTROLLER CABINET TYPE IV WITH BASE DIMENSIONS OF 26" x 44" (660mm x 1118mm). ADJUST PLATFORM SIZE TO FIT CABINET BASE DIMENSIONS BEING SUPPLIED.
2. BASED ON UNINTERRUPTIBLE POWER SUPPLY CABINET WITH BASE DIMENSIONS OF 16" x 25" (406mm x 635mm). ADJUST PLATFORM SIZE TO FIT CABINET BASE DIMENSIONS BEING SUPPLIED.
3. PLATFORM SIZE FOR CONTROLLER CABINET TYPE IV.
4. PLATFORM SIZE FOR CONTROLLER CABINET TYPE IV AND UNINTERRUPTIBLE POWER SUPPLY CABINET.
5. DRILLED HOLES THROUGH THE PLATFORM BASE TO MATCH THE CONTROLLER CABINET BOLT TEMPLATE. FASTEN THE CONTROLLER CABINET TO THE PLATFORM WITH CARRIAGE BOLTS, WASHERS AND NUTS.
6. FASTEN ALL SUPPORT WOOD FRAMING TO THE WOOD POSTS WITH 2 LAG SCREWS FOR EACH CONNECTION.

**TEMPORARY SIGNAL CONTROLLER  
WOOD SUPPORT PLATFORM**

CABLE SLACK LENGTH	FEET	METER
HANDHOLE	6.5	2.0
DOUBLE HANDHOLE	13.0	4.0
SIGNAL POST	2.0	0.6
MAST ARM	2.0	0.6
CONTROLLER CABINET	1.5	0.5
FIBER OPTIC AT CABINET	13.0	4.0
ELECTRIC SERVICE AT (CABINET OR SERVICE LOCATION)	1.5	0.5
GROUND CABLE (SIGNAL POST, MAST ARM, CABINET)	1.5	0.5
GROUND CABLE (BETWEEN FRAME AND COVER)	5.0	1.6

**CABLE SLACK**

VERTICAL CABLE LENGTH	FEET	METER
MAST ARM POLE (MAST ARM MOUNTED SIGNAL HEAD) (L = MAST ARM LENGTH - DISTANCE TO SIGNAL HEAD FROM END OF ARM)	20.0+L	6.0+L
BRACKET MOUNTED (MAST ARM POLE OR SIGNAL POLE)	13.0	4.0
PEDESTRIAN PUSH BUTTON	6.0	2.0
SERVICE INSTALLATION POLE MOUNT TO SERVICE DROP	13.5	4.1
SERVICE INSTALLATION POLE MOUNT TO GROUND	13.5	4.1
SERVICE INSTALLATION GROUND MOUNT	6.0	2.0
FOUNDATION (SIGNAL POST, MAST ARM POLE, CONTROLLER CABINET, SERVICE-GROUND MOUNT)	3.0	1.0

**VERTICAL CABLE LENGTH**

FOUNDATION	DEPTH
TYPE A - Signal Post	4'-0" (1.2m)
TYPE C - CONTROLLER W/ UPS	4'-0" (1.2m)
TYPE D - CONTROLLER	4'-0" (1.2m)
SERVICE INSTALLATION, GROUND MOUNT, TYPE A - SQUARE	4'-0" (1.2m)

**DEPTH OF FOUNDATION**

MAST ARM LENGTH	① FOUNDATION DEPTH	FOUNDATION DIAMETER	SPIRAL DIAMETER	QUANTITY OF REBARS	SIZE OF REBARS
Less than 30' (9.1 m)	10'-0" (3.0 m)	30" (750mm)	24" (600mm)	8	6(19)
Greater than or equal to 30' (9.1 m) and less than 40' (12.2 m)	13'-6" (4.1 m)	30" (750mm)	24" (600mm)	8	6(19)
Greater than or equal to 40' (12.2 m) and less than 50' (15.2 m)	11'-0" (3.4 m)	36" (900mm)	30" (750mm)	12	7(22)
Greater than or equal to 50' (15.2 m) and up to 55' (16.8 m)	13'-0" (4.0 m)	36" (900mm)	30" (750mm)	12	7(22)
Greater than or equal to 55' (16.8 m) and less than 65' (19.8 m)	15'-0" (4.6 m)	36" (900mm)	30" (750mm)	12	7(22)
Greater than or equal to 65' (19.8 m) and less than 75' (22.9 m)	21'-0" (6.4 m)	42" (1060mm)	36" (900mm)	16	8(25)
Greater than or equal to 75' (22.9 m)	25'-0" (7.6 m)	42" (1060mm)	36" (900mm)	16	8(25)

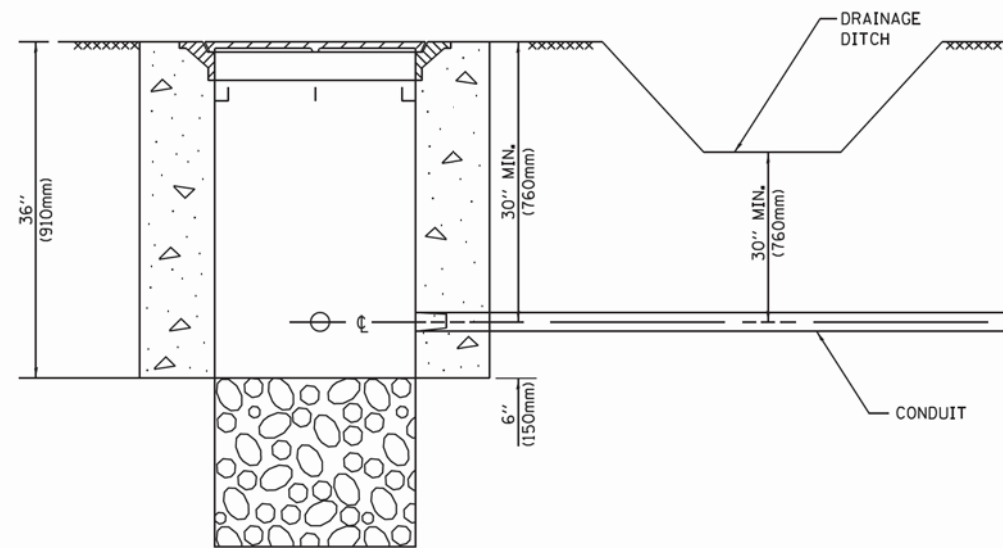
**NOTES:**

1. These foundation depths are for sites which have cohesive soils (clayey silt, sandy clay, etc.) along the length of the shaft, with an average unconfined compressive strength (qu) > 1.0 tsf (100 kpa). This strength shall be verified by boring data prior to construction or with testing by the Engineer during foundation drilling. The Bureau of Bridges & Structures should be contacted for a revised design if other conditions are encountered.
2. Combination mast arm assemblies under 55 feet (16.8 m) shall use 36" (900 mm) diameter foundations.
3. Combination mast arm assemblies under 56 feet (16.8 m) through 75 feet (22.9 m) shall use 42" (1060 mm) diameter foundations.
4. For mast arm assemblies with dual arms refer to state standard 878001..

**DEPTH OF MAST ARM FOUNDATIONS, TYPE E**

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 TEL: 312.467.1000 FAX: 312.467.1001  
 WWW.BAXTERANDWOODMAN.COM  
 PROJECT NO. 15-01-00000-01  
 SHEET NO. 5

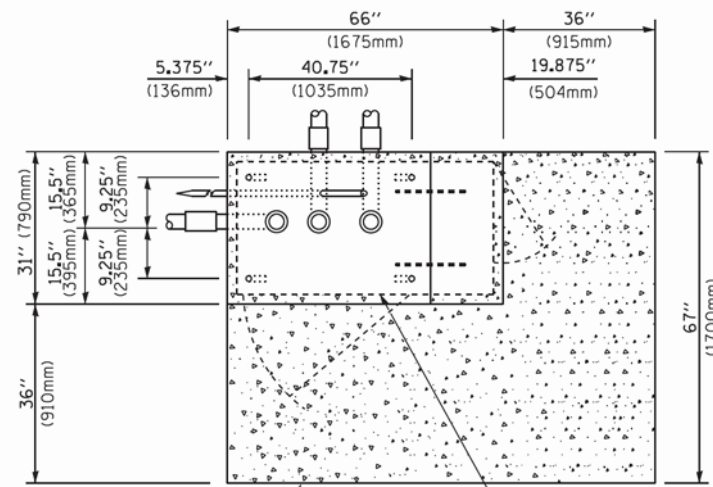




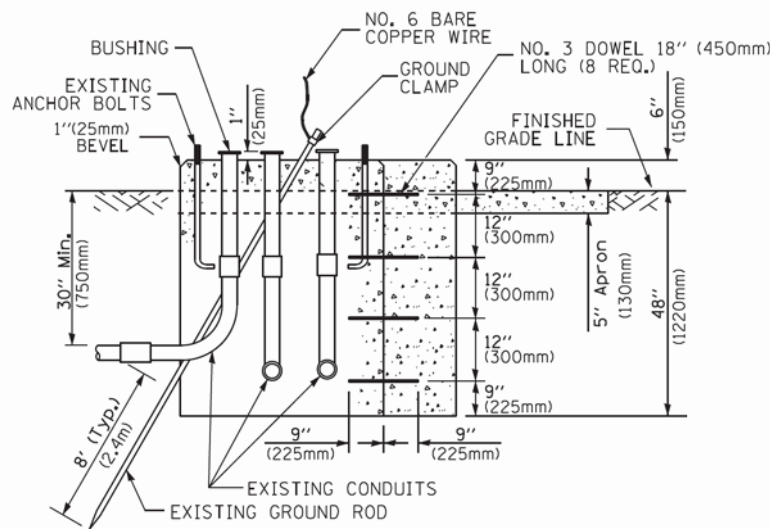
**NOTES:**

- CONDUIT DEPTH SHALL BE A MINIMUM OF 30" (760mm) BELOW THE BOTTOM OF THE DRAINAGE DITCH OR ANY SLOPING GROUND
- THE MINIMUM CONDUIT DEPTH APPLIES TO ALL CONDUIT PLACED UNDER ROADWAY PAVEMENT, MULTI-USE PATHS, SIDEWALKS AND SOIL SURFACES.
- THE MINIMUM CONDUIT DEPTH APPLIES TO ALL HANDHOLES, HEAVY DUTY HANDHOLES AND DOUBLE HANDHOLES.

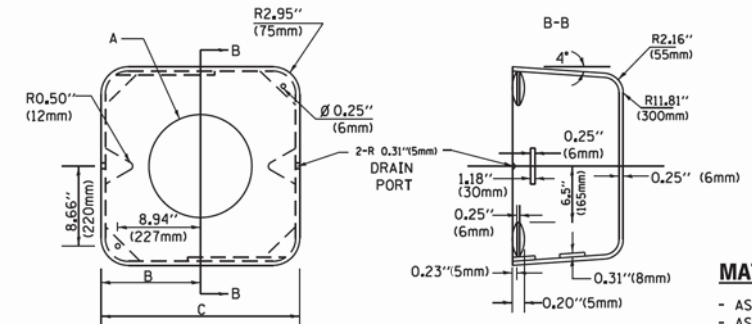
**HANDHOLE WITH MINIMUM CONDUIT DEPTH**  
(NOT TO SCALE)



**TOP VIEW**  
(NOT TO SCALE)



**MODIFY EXISTING TYPE "D" FOUNDATION TO TYPE "C" FOUNDATION**  
(NOT TO SCALE)



**MATERIAL:**  
- ASTM A36 STEEL  
- ASTM A-123 HOT DIPPED GALVANIZED

	A	B	C	HEIGHT	WEIGHT
VARIABLES	VARIES	9.5" (241mm)	19" (483mm)	7" (178mm) - 12" (300mm)	53 lbs (24kg)
VARIABLES	VARIES	10.75" (273mm)	21.5" (546mm)	7" (178mm) - 12" (300mm)	68 lbs (31 kg)
VARIABLES	VARIES	13.0" (330mm)	26" (660mm)	7" (178mm) - 12" (300mm)	81 lbs (37 kg)
VARIABLES	VARIES	18.5" (470mm)	37" (940mm)	7" (178mm) - 12" (300mm)	126 lbs (57 kg)

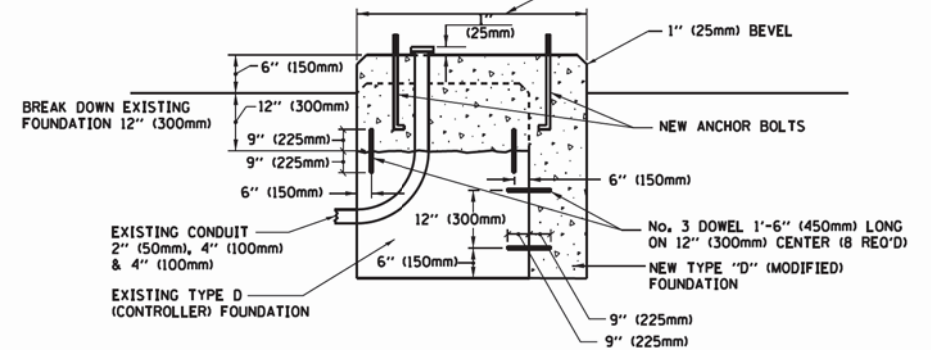
**SHROUD**

**NOTES:**

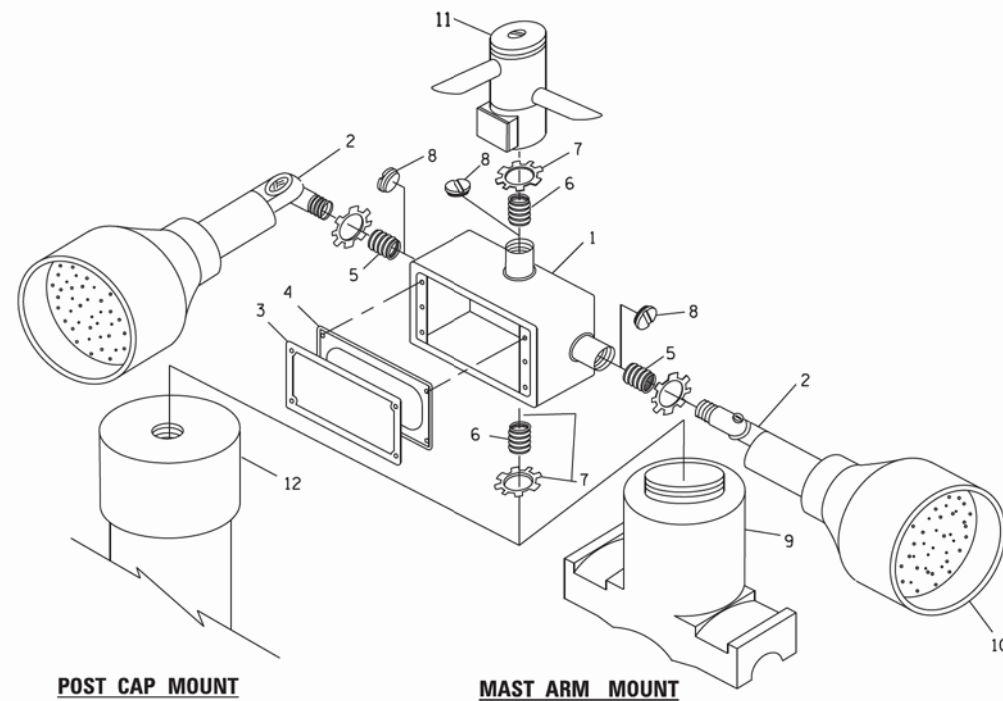
- DIMENSION "A" IS EQUAL TO THE DIAMETER OF THE MAST ARM POLE AT THE TOP OF THE SHROUD. THE SHROUD SHALL BE TIGHT TO THE MAST ARM POLE.
- THE SUPPLIER SHALL VERIFY THE ABOVE DIMENSIONS BASED ON MAST ARM REQUIREMENTS.
- THE HEIGHT OF THE SHROUD SHALL COVER THE ANCHOR BOLTS, NUTS AND MAST ARM POLE BASE.

**NOTE:**

SUPPORT EXISTING CABINET AND CONTROL EQUIPMENT ABOVE FOUNDATION TO KEEP TRAFFIC SIGNAL FUNCTIONING WHILE FOUNDATION MODIFICATION WORK IS PROCEEDING.



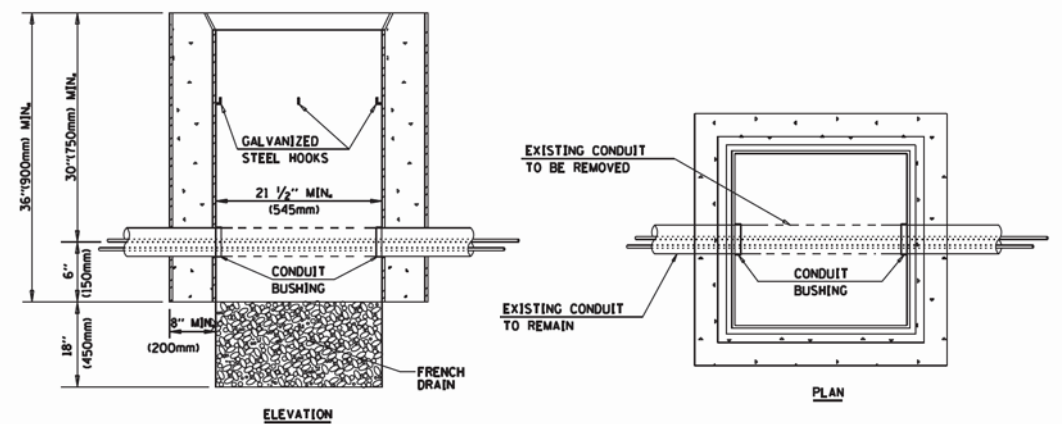
**MODIFY EXISTING TYPE "D" FOUNDATION**



ITEM NO.	IDENTIFICATION
1	OUTLET BOX- GALV. 21 CU. IN. (0.000344 CU-M)
2	LAMP HOLDER AND COVER
3	OUTLET BOX COVER
4	RUBBER COVER GASKET
5	REDUCING BUSHING
6	3/4" (19 mm) CLOSE NIPPLE
7	3/4" (19 mm) LOCKNUT
8	3/4" (19 mm) HOLE PLUG
9	SADDLE BRACKET - GALV.
10	6 WATT PAR 38 LED FLOOD LAMP
11	DETECTOR UNIT
12	POST CAP [18 FT. (5.4 m) POST MIN.]

**NOTES:**

- ALL ELECTRICAL ITEMS, EXCEPT ITEMS #2 AND #11 SHALL BE ALUMINUM OR GALVANIZED
- ITEM #1- OZ/GEDNEY FSX-1-50 OR EQUIVALENT  
ITEM #2- MULBERRY CON-O-SHADE LAMP SHIELD OR EQUIVALENT  
ITEM #9- "BAND-IT" SADDLE BRACKET OR EQUIVALENT
- WHEN POST MOUNTING IS SPECIFIED, ITEM #9 SHALL NOT BE REQUIRED. THE DETECTION UNIT SHALL BE MOUNTED DIRECTLY ON TOP OF THE CAP BY DRILLING AND TAPPING A 3/4" (19 mm) HOLE WITH PIPE THREADS. THE POST CAP SHALL EITHER BE SCREWED TO THE TOP OF THE POST OR A MINIMUM OF 3 TIGHTENING SCREWS SHALL BE REQUIRED ON EACH CAP.



**NOTES:**

- HANDHOLE CONSTRUCTED PER STATE STANDARD 814001.
- REMOVAL OF THE EXISTING CONDUIT FROM THE HANDHOLE AND THE INSTALLATION OF THE CONDUIT BUSHINGS SHALL BE INCLUDED WITH THE COST OF THE HANDHOLE.

**HANDHOLE TO INTERCEPT EXISTING CONDUIT**

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 LICENSE NO. 184-000000-APR05-10000000-0000-0000-0000-0000  
 PROJECT NO. 15-01-000000-0000-0000-0000-0000  
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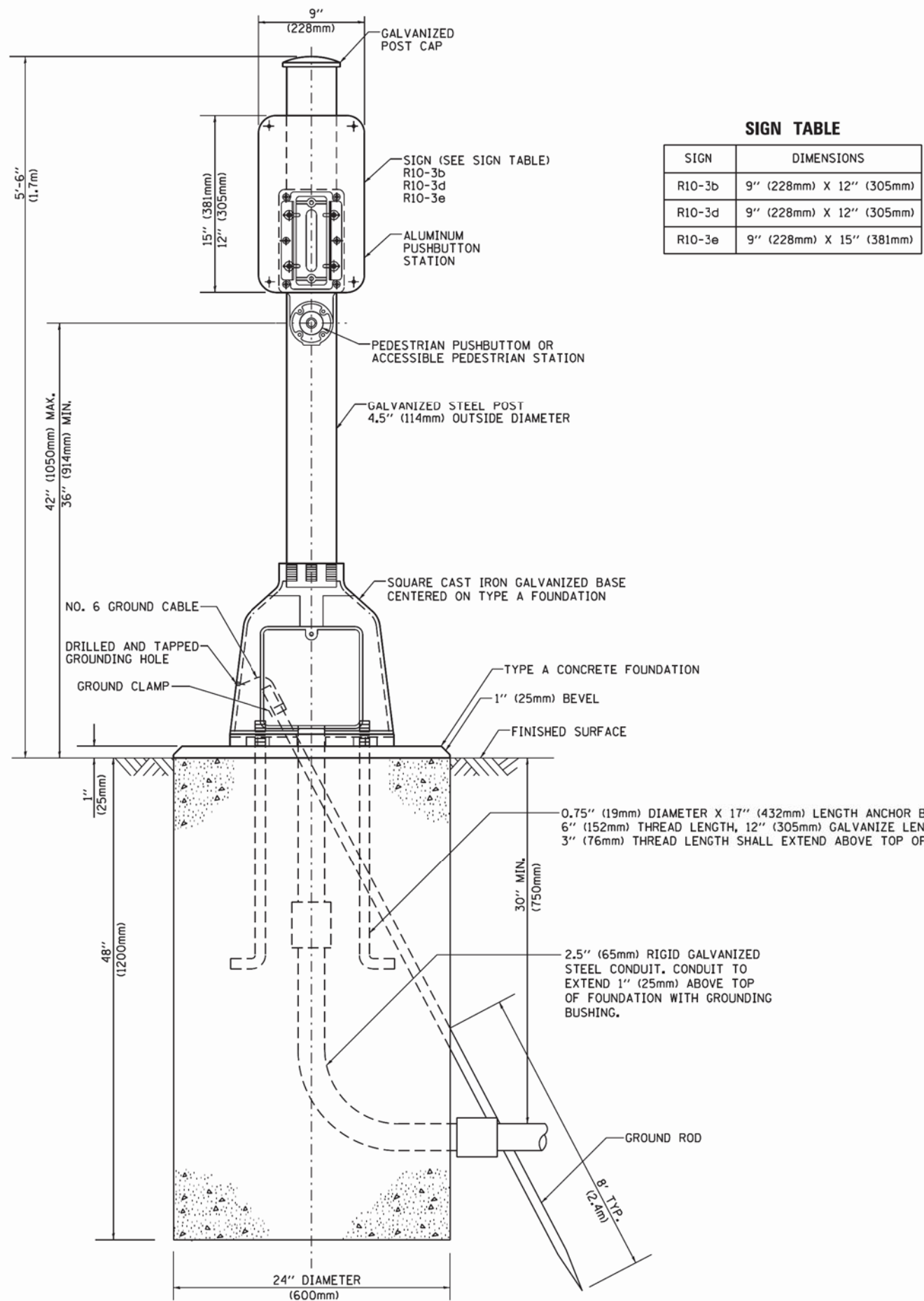
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**DISTRICT ONE  
STANDARD TRAFFIC SIGNAL DESIGN DETAILS**

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
330	91Y-N-2	COOK	128	57

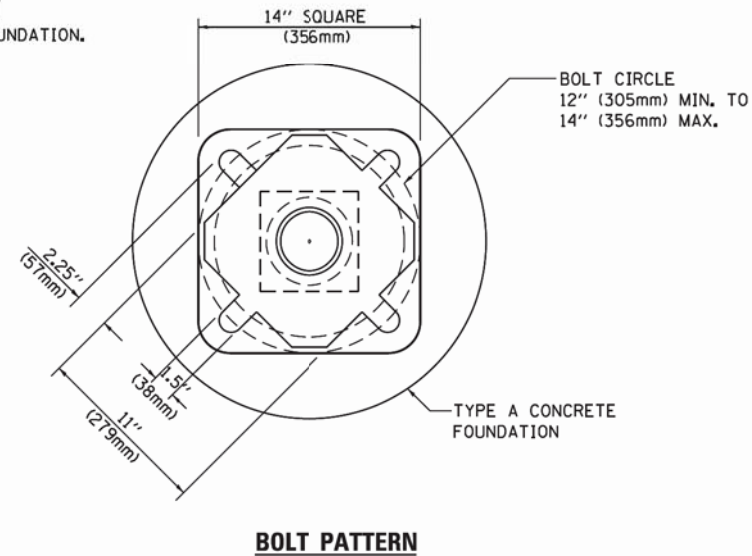
SCALE: NONE SHEET 6 OF 7 SHEETS STA. TO STA.

CONTRACT NO. 62A47  
ILLINOIS FED. AID PROJECT C-91-138-12



**SIGN TABLE**

SIGN	DIMENSIONS
R10-3b	9" (228mm) X 12" (305mm)
R10-3d	9" (228mm) X 12" (305mm)
R10-3e	9" (228mm) X 15" (381mm)



**PEDESTRIAN PUSH BUTTON POST, TYPE A**

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 PROJECT NO. 91-138-12  
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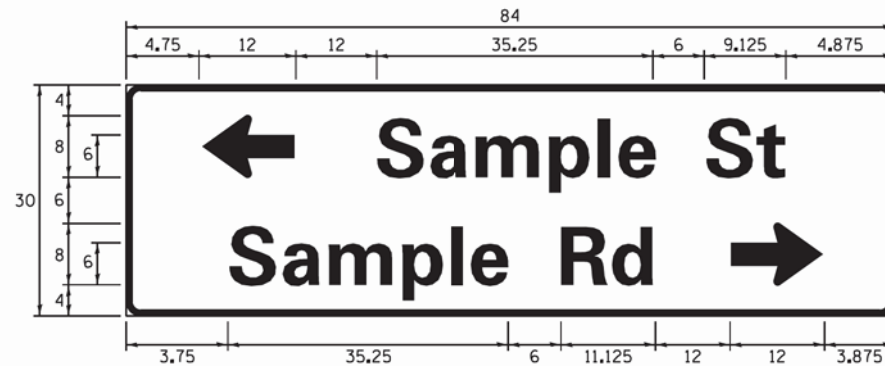
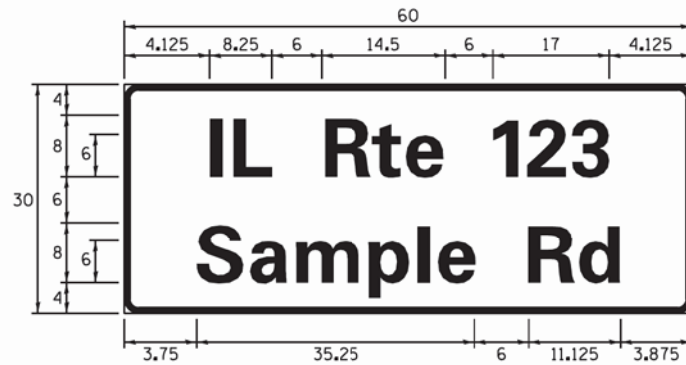
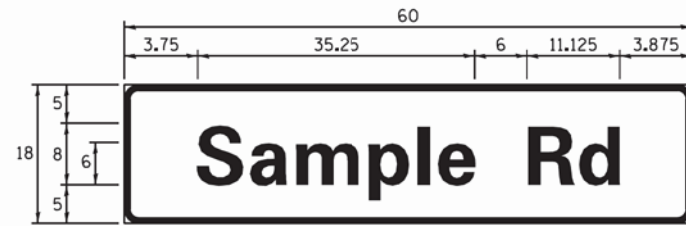
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

<b>DISTRICT ONE</b>	
<b>STANDARD TRAFFIC SIGNAL DESIGN DETAILS</b>	
SCALE: NONE	SHEET 7 OF 7 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
330	91Y-N-2	COOK	128	58
<b>TS-05</b>		<b>CONTRACT NO. 62A47</b>		
ILLINOIS FED. AID PROJECT C-91-138-12				



**SIGN PANEL – TYPE 1 OR TYPE 2**



DESIGN SERIES	AREA (SQ FT)	SIGN PANEL TYPE	SHEETING TYPE	QTY. REQUIRED
D OR C	-	1 OR 2	ZZ	-

ALL DIMENSIONS ARE IN INCHES EXCEPT NOTED OTHERWISE

**COMMON STREET NAME ABBREVIATIONS AND WIDTHS**

NAME	ABBREVIATION	WIDTH (INCH)	
		SERIES "C"	SERIES "D"
AVENUE	Ave	15.000	18.250
BOULEVARD	Blvd	17.125	20.000
CIRCLE	Cir	11.125	13.000
COURT	Ct	8.250	9.625
DRIVE	Dr	8.625	10.125
HIGHWAY	Hwy	18.375	22.000
ILLINOIS	IL	7.000	8.250
LANE	Ln	9.125	10.750
PARKWAY	Pkwy	23.375	27.375
PLACE	Pl	7.125	7.750
ROAD	Rd	9.625	11.125
ROUTE	Rte	12.625	14.500
STREET	St	8.000	9.125
TERRACE	Ter	12.625	14.625
TRAIL	Tr	7.750	9.125
UNITED STATES	US	10.375	12.250

**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 877001, 877002, 877006, 877011 AND 877012, AS APPLICABLE, PLUS TWO (2) SIGN PANELS 2'-6" x 8'-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 CONSIST OF A WHITE LEGEND AND BORDER (TYPE ZZ SHEETING) ON A GREEN BACKGROUND (TYPE ZZ SHEETING)
- THE SIGN LENGTH SHALL BE IN 6-INCH INCREMENTS, BUT THE OVERALL LENGTH SHALL NOT EXCEED 8'-0". ALL BORDERS SHALL BE 3/4" WIDE. CORNER RADIUS SHALL BE 1-7/8". THE SPACING BETWEEN THE WORDS SHOULD BE 6", IF POSSIBLE, BUT MAY BE REDUCED TO 5" WHEN SPACING IS CRITICAL. A MINIMUM OF 2-1/2" SHALL BE INCLUDED BETWEEN THE WORD AND THE RIGHT AND LEFT EDGES OF THE SIGN.
- A PREFERRED METHOD FOR THE SIGN DESIGN IS TO USE SERIES "D" LETTER ON A ONE-LINE SIGN 18" IN HEIGHT AND A MAXIMUM OF 8'-0" IN WIDTH. IF SERIES "D" DOES NOT FIT ON A 8'-0" SIGN, THEN SERIES "C" SHOULD BE TRIED. IF SERIES "C" DOES NOT FIT ON A 8'-0" SIGN, A 30" HIGH TWO-LINE SIGN CAN BE USED. THE CROSSROAD DESIGNATION AS TO STREET, AVENUE, ETC. SHOULD BE SPELLED OUT ON THE SECOND LINE, IF THE ABBREVIATION CANNOT FIT ON THE FIRST LINE.
- LED ILLUMINATED STREET NAME SIGNS CAN BE USED IN PLACE OF REGULAR SIGN PANELS BUT ANY SPECIAL WORDING AND SYMBOLOGY MUST BE APPROVED BY THE DEPARTMENT. GENERAL DESIGN REQUIREMENT AS LISTED ABOVE (COLOR, FONT, SIZE, ETC.) MUST BE FOLLOWED.
- SIGNFIX ALUMINUM CHANNEL FRAMING SYSTEM SHALL BE USED FOR ALL SIGNS ATTACHED TO SIGNAL POLES AND POSTS.

**LOCAL SUPPLIERS:**

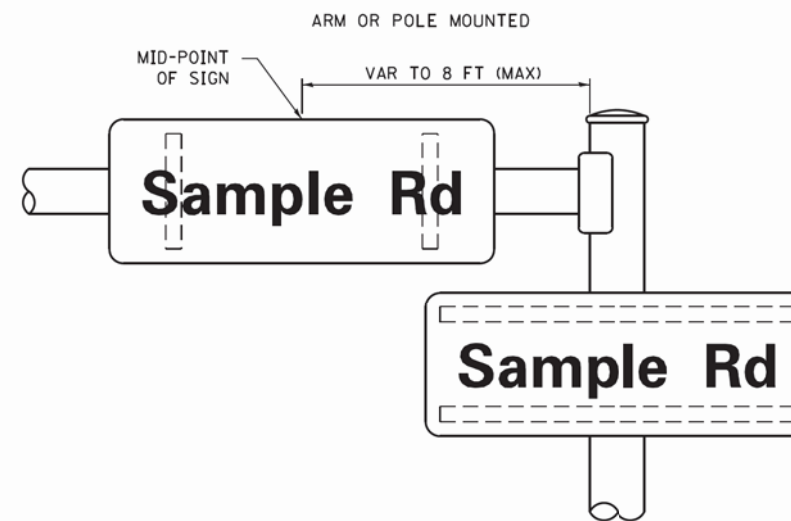
- J.O. HERBERT COMPANY, INC  
MIDLOTHIAN, VA
- WESTERN REMAC, INC.  
WOODRIDGE, IL

**PARTS LISTING:**

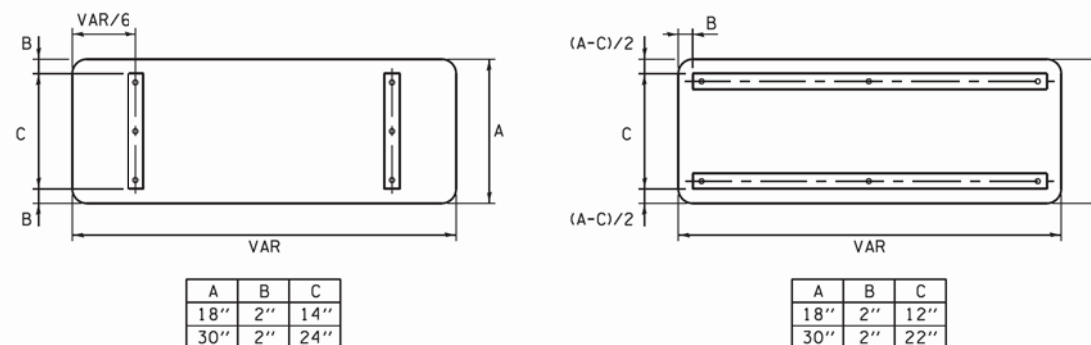
- SIGN CHANNEL PART #HPN053 (MED. CHANNEL)  
1/4" x 14 x 1" H.W.H. #3  
SELF TAPPING WITH NEOPRENE WASHER
- SIGN SCREWS PART #HPN034 (UNIVERSAL)  
CHANNEL CLAMPS WITH STAINLESS STEEL STRAPPING
- BRACKETS

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

**MOUNTING LOCATION**



**SUPPORTING CHANNELS**



**STANDARD ALPHABETS SPACING CHART**

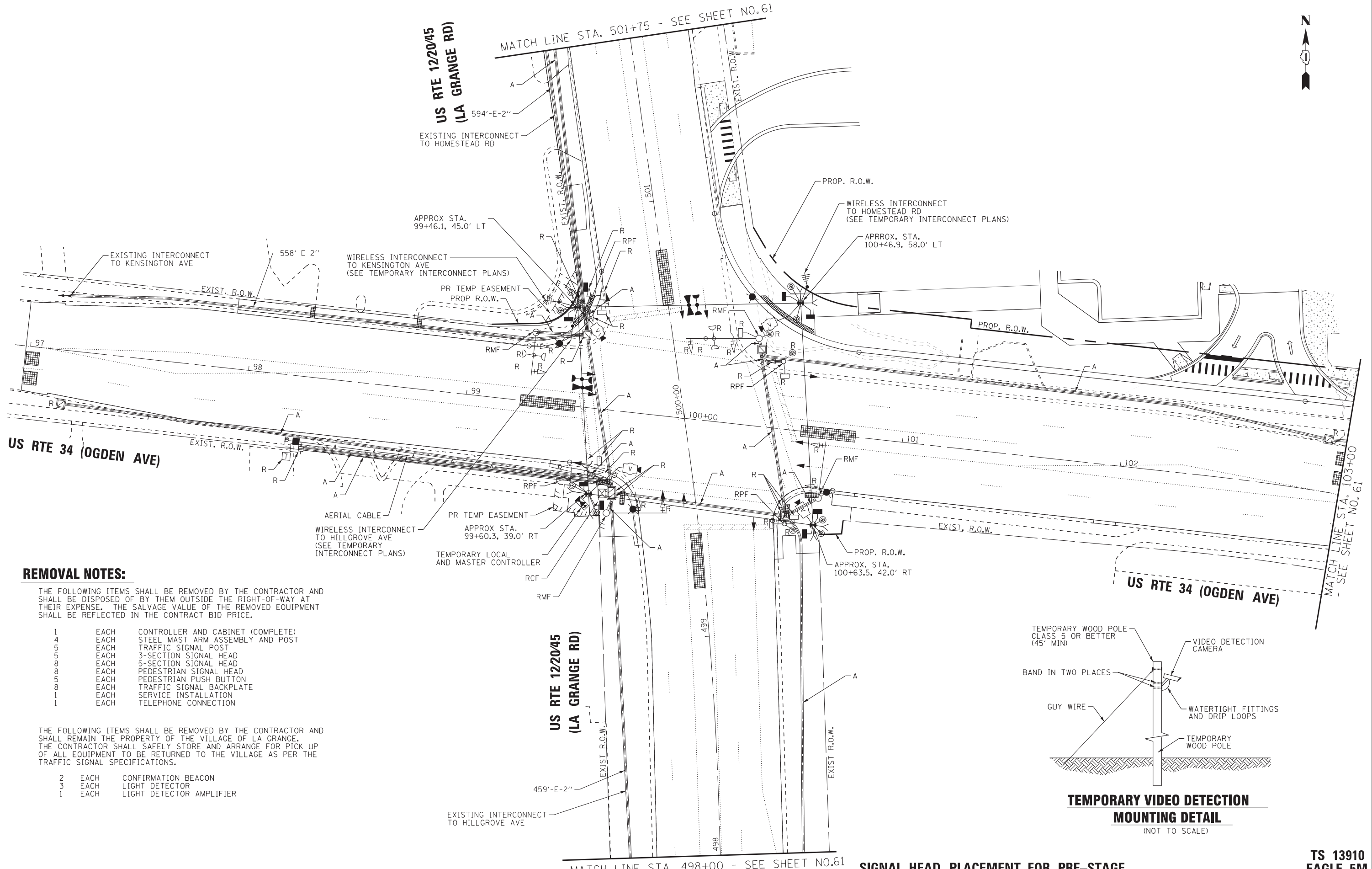
( 8" ) UPPER CASE AND ( 6" ) LOWER CASE

CHARACTER	FHWA SERIES "C"			FHWA SERIES "D"			
	LEFT SPACING (INCH)	WIDTH (INCH)	RIGHT SPACING (INCH)	CHARACTER	LEFT SPACING (INCH)	WIDTH (INCH)	RIGHT SPACING (INCH)
A	0.240	5.122	0.240	A	0.240	6.804	0.240
B	0.880	4.482	0.480	B	0.960	5.446	0.400
C	0.720	4.482	0.720	C	0.800	5.446	0.800
D	0.880	4.482	0.720	D	0.960	5.446	0.800
E	0.880	4.082	0.480	E	0.960	4.962	0.400
F	0.880	4.082	0.240	F	0.960	4.962	0.240
G	0.720	4.482	0.720	G	0.800	5.446	0.800
H	0.880	4.482	0.880	H	0.960	5.446	0.960
I	0.880	1.120	0.880	I	0.960	1.280	0.960
J	0.240	4.082	0.880	J	0.240	5.122	0.960
K	0.880	4.482	0.480	K	0.960	5.604	0.400
L	0.880	4.082	0.240	L	0.960	4.962	0.240
M	0.880	5.284	0.880	M	0.960	6.244	0.960
N	0.880	4.482	0.880	N	0.960	5.446	0.960
O	0.720	4.722	0.720	O	0.800	5.684	0.800
P	0.880	4.482	0.720	P	0.960	5.446	0.240
Q	0.720	4.722	0.720	Q	0.800	5.684	0.800
R	0.880	4.482	0.480	R	0.960	5.446	0.400
S	0.480	4.482	0.480	S	0.400	5.446	0.400
T	0.240	4.082	0.240	T	0.240	4.962	0.240
U	0.880	4.482	0.880	U	0.960	5.446	0.960
V	0.240	4.962	0.240	V	0.240	6.084	0.240
W	0.240	6.084	0.240	W	0.240	7.124	0.240
X	0.240	4.722	0.240	X	0.400	5.446	0.400
Y	0.240	5.122	0.240	Y	0.240	6.884	0.240
Z	0.480	4.482	0.480	Z	0.400	5.446	0.400
a	0.320	3.842	0.640	a	0.400	4.562	0.720
b	0.720	4.082	0.480	b	0.800	4.802	0.480
c	0.480	4.002	0.240	c	0.480	4.722	0.240
d	0.480	4.082	0.720	d	0.480	4.802	0.800
e	0.480	4.082	0.320	e	0.480	4.722	0.320
f	0.320	2.480	0.160	f	0.320	2.882	0.160
g	0.480	4.082	0.720	g	0.480	4.802	0.800
h	0.720	4.082	0.640	h	0.800	4.722	0.720
i	0.720	1.120	0.720	i	0.800	1.280	0.800
j	0.000	2.320	0.720	j	0.000	2.642	0.800
k	0.720	4.322	0.160	k	0.800	5.122	0.160
l	0.720	1.120	0.720	l	0.800	1.280	0.800
m	0.720	6.724	0.640	m	0.800	7.926	0.720
n	0.720	4.082	0.640	n	0.800	4.722	0.720
o	0.480	4.082	0.480	o	0.480	4.882	0.480
p	0.720	4.082	0.480	p	0.800	4.802	0.480
q	0.480	4.082	0.720	q	0.480	4.802	0.800
r	0.720	2.642	0.160	r	0.800	3.042	0.160
s	0.320	3.362	0.240	s	0.320	3.762	0.240
t	0.080	2.882	0.080	t	0.080	3.202	0.080
u	0.640	4.082	0.720	u	0.720	4.722	0.800
v	0.160	4.722	0.160	v	0.160	5.684	0.160
w	0.160	7.524	0.160	w	0.160	9.046	0.160
x	0.000	5.202	0.000	x	0.000	6.244	0.000
y	0.160	4.962	0.160	y	0.160	6.004	0.160
z	0.240	3.362	0.240	z	0.240	4.002	0.240
1	0.720	1.680	0.880	1	0.800	2.000	0.960
2	0.480	4.482	0.480	2	0.800	5.446	0.800
3	0.480	4.482	0.480	3	1.440	5.446	0.800
4	0.240	4.962	0.720	4	0.160	6.004	0.960
5	0.480	4.482	0.480	5	0.800	5.446	0.800
6	0.720	4.482	0.720	6	0.800	5.446	0.800
7	0.240	4.482	0.720	7	0.560	5.446	0.560
8	0.480	4.482	0.480	8	0.800	5.446	0.800
9	0.480	4.482	0.480	9	0.800	5.446	0.800
0	0.720	4.722	0.720	0	0.800	5.684	0.800
-	0.240	2.802	0.240	-	0.240	2.802	0.240

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 TS-SHT NO. 8

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	PLOT DATE = 5/17/2016	DATE - 10/01/2014	REVISED -

<b>STATE OF ILLINOIS</b> <b>DEPARTMENT OF TRANSPORTATION</b>		<b>DISTRICT ONE</b> <b>MAST ARM MOUNTED STREET NAME SIGNS</b>		F.A.P. RTE. 330	SECTION 91Y-N-2	COUNTY COOK	TOTAL SHEETS 128	SHEET NO. 59
				SCALE: SHEET OF SHEETS STA. TO STA.		TS-02		CONTRACT NO. 62A47



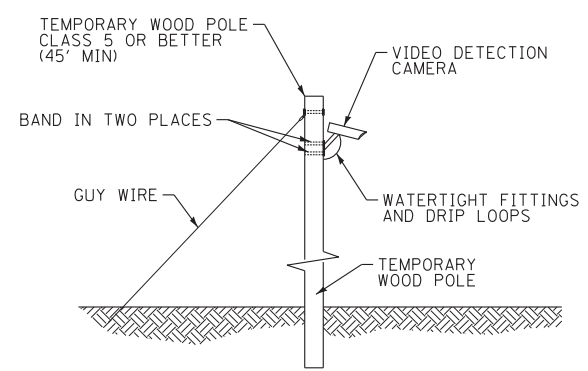
**REMOVAL NOTES:**

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)
- 4 EACH STEEL MAST ARM ASSEMBLY AND POST
- 5 EACH TRAFFIC SIGNAL POST
- 5 EACH 3-SECTION SIGNAL HEAD
- 8 EACH 5-SECTION SIGNAL HEAD
- 8 EACH PEDESTRIAN SIGNAL HEAD
- 5 EACH PEDESTRIAN PUSH BUTTON
- 8 EACH TRAFFIC SIGNAL BACKPLATE
- 1 EACH SERVICE INSTALLATION
- 1 EACH TELEPHONE CONNECTION

THE FOLLOWING ITEMS SHALL BE REMOVED BY THE CONTRACTOR AND SHALL REMAIN THE PROPERTY OF THE VILLAGE OF LA GRANGE. THE CONTRACTOR SHALL SAFELY STORE AND ARRANGE FOR PICK UP OF ALL EQUIPMENT TO BE RETURNED TO THE VILLAGE AS PER THE TRAFFIC SIGNAL SPECIFICATIONS.

- 2 EACH CONFIRMATION BEACON
- 3 EACH LIGHT DETECTOR
- 1 EACH LIGHT DETECTOR AMPLIFIER



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

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 TS SHI NO. 9



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DRAWN - UKB	REVISED -
CHECKED - RWL	REVISED -
DATE - 11-02-16	FILE - D162A47-sht-TS-Temp-Sigs.dgn

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

**SIGNAL HEAD PLACEMENT FOR PRE-STAGE**  
**TEMPORARY TRAFFIC SIGNAL INSTALLATION PLAN AND**  
**REMOVE EXISTING SIGNAL EQUIPMENT PLAN PRE-STAGE (SHEET 1 OF 1)**  
**US RTE 34 (OGDEN AVE) AND US RTE 1220/45 (LA GRANGE RD)**

SCALE: 1"=20' SHEET OF SHEETS STA. TO STA.

F.A.P. RTE. 330	SECTION 91Y-N-2	COUNTY COOK	TOTAL SHEETS 128	SHEET NO. 60
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT C-91-138-12			CONTRACT NO. 62A47	

TS 13910  
EAGLE 5M



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 TS SHT NO. 10



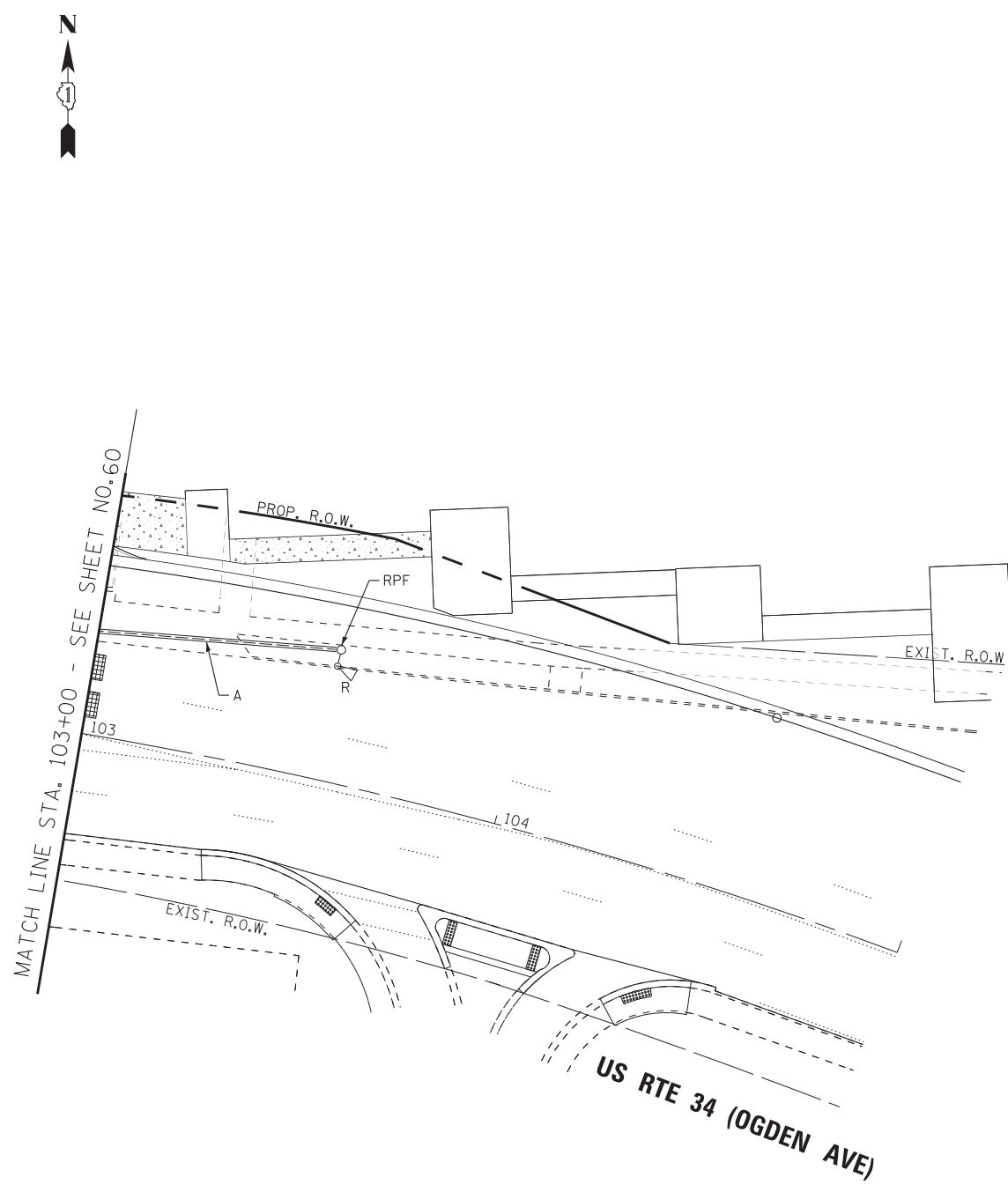
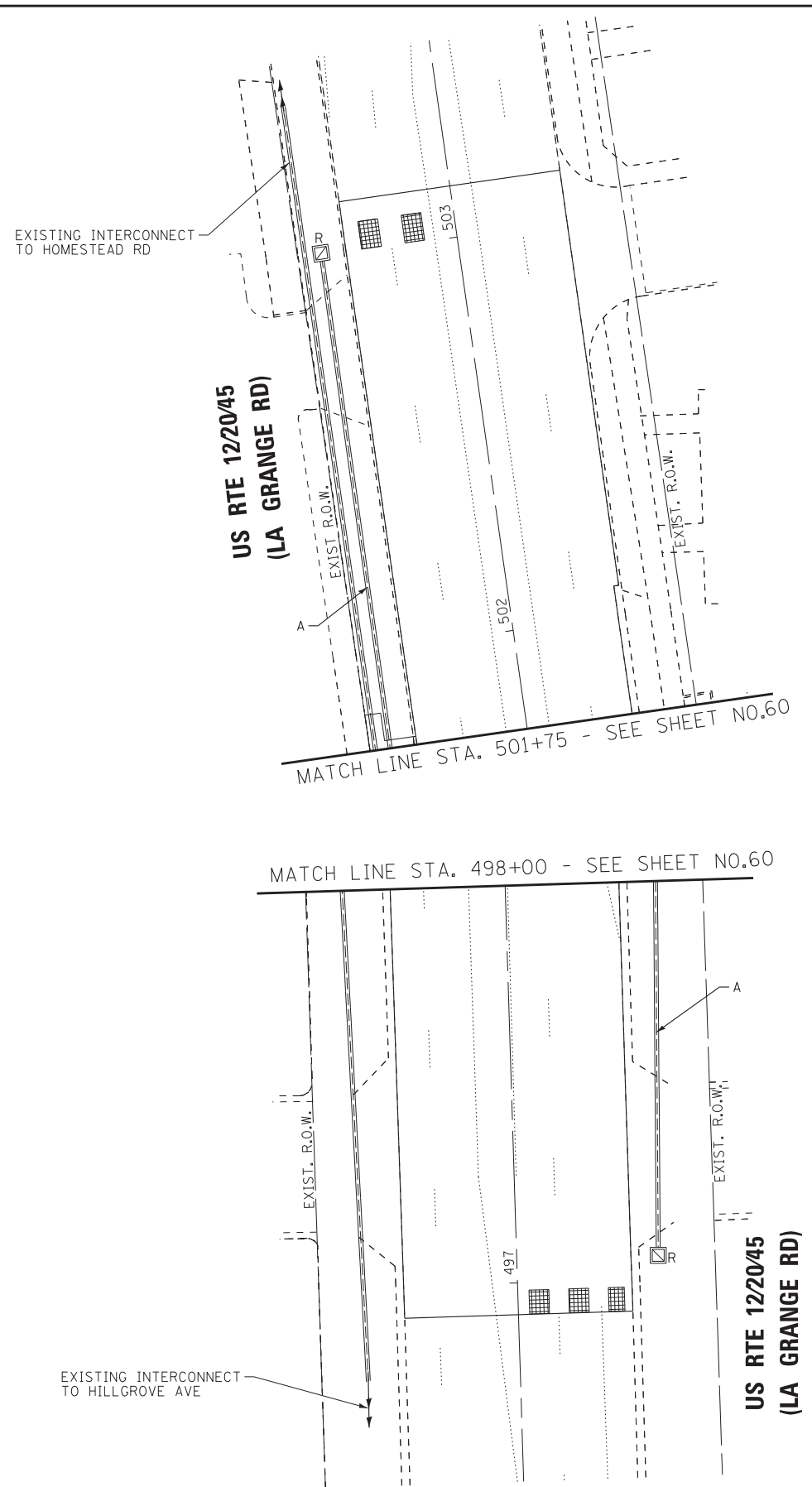
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DRAWN - UKB	REVISED -
CHECKED - RWL	REVISED -
DATE - 11-02-16	FILE - D162A47-sht-TS-Temp-Sigs.dgn

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

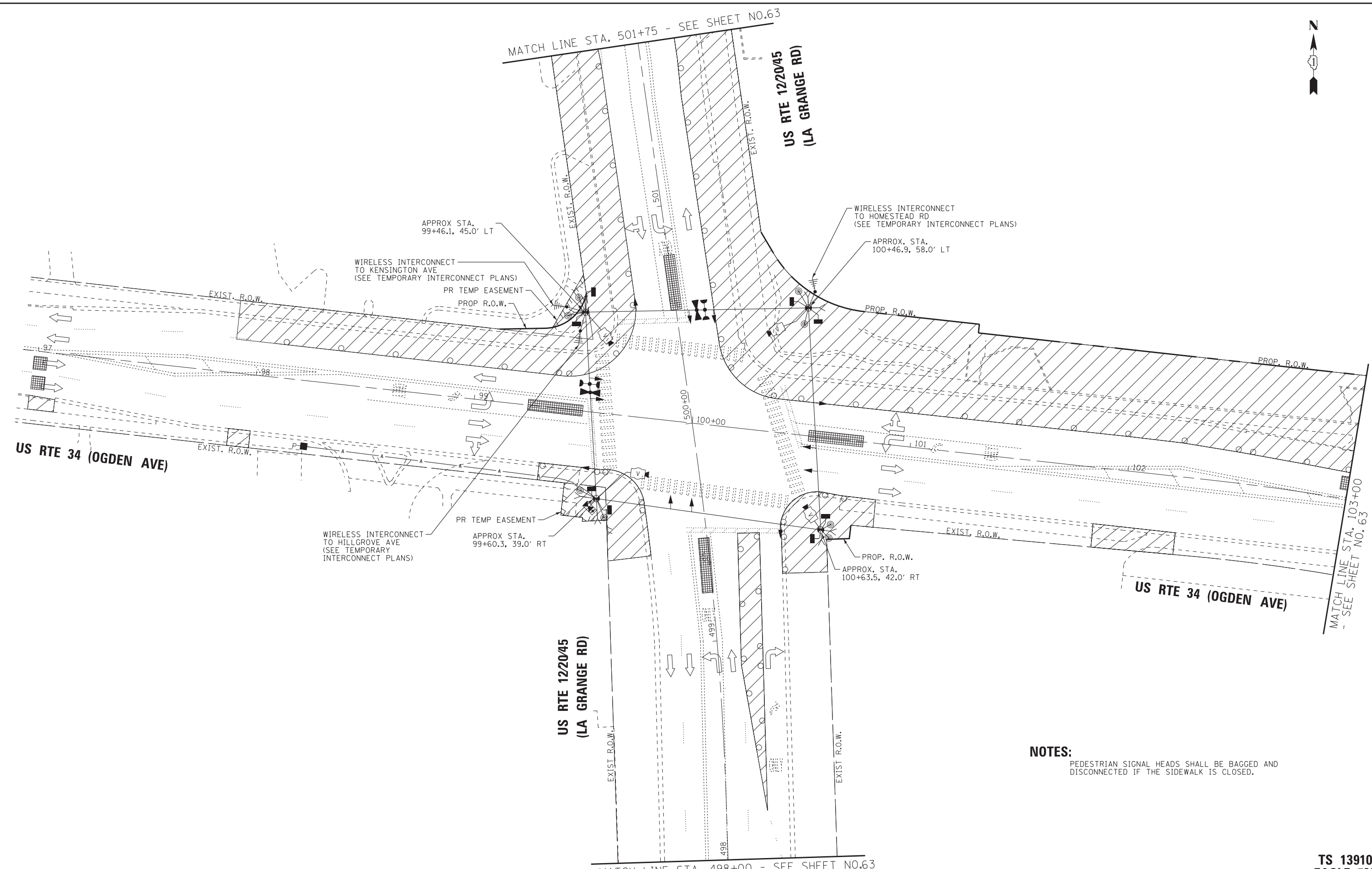
**SIGNAL HEAD PLACEMENT FOR PRE-STAGE**

**TEMPORARY TRAFFIC SIGNAL INSTALLATION PLAN AND  
 REMOVE EXISTING SIGNAL EQUIPMENT PLAN PRE-STAGE (SHEET 2 OF 2)  
 US RTE 34 (OGDEN AVE) AND US RTE 1220/45 (LA GRANGE RD)**

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
330	91Y-N-2	COOK	128	61
FED. ROAD DIST. NO.			ILLINOIS FED. AID PROJECT C-91-138-12	



**TS 13910  
 EAGLE 5M**



**NOTES:**  
 PEDESTRIAN SIGNAL HEADS SHALL BE BAGGED AND DISCONNECTED IF THE SIDEWALK IS CLOSED.

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**TS\_SHT NO.11**



DESIGNED - RWL	REVISED -
DRAWN - UKB	REVISED -
CHECKED - RWL	REVISED -
DATE - 11-02-16	FILE - D162A47-sht-TS-Temp-Sigs-Stage1.dgn

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

**SIGNAL HEAD PLACEMENT FOR STAGE 1 (PHASE A, B, & C)**  
**TEMPORARY TRAFFIC SIGNAL INSTALLATION PLAN**  
**STAGE 1 (PHASES A, B, & C) (SHEET 1 OF 2)**  
**US RTE 34 (OGDEN AVE) AND US RTE 1220/45 (LA GRANGE RD)**  
 SCALE: 1"=20' SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
330	91Y-N-2	COOK	128	62
FED. ROAD DIST. NO.			ILLINOIS FED. AID PROJECT C-91-138-12	

**TS 13910**  
**EAGLE 5M**

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**TS SH1 NO. 12**



DESIGNED - RWL	REVISED -
DRAWN - UKB	REVISED -
CHECKED - RWL	REVISED -
DATE - 11-02-16	FILE - D162A47-sh1-TS-Temp-Sigs-Stage1.dgn

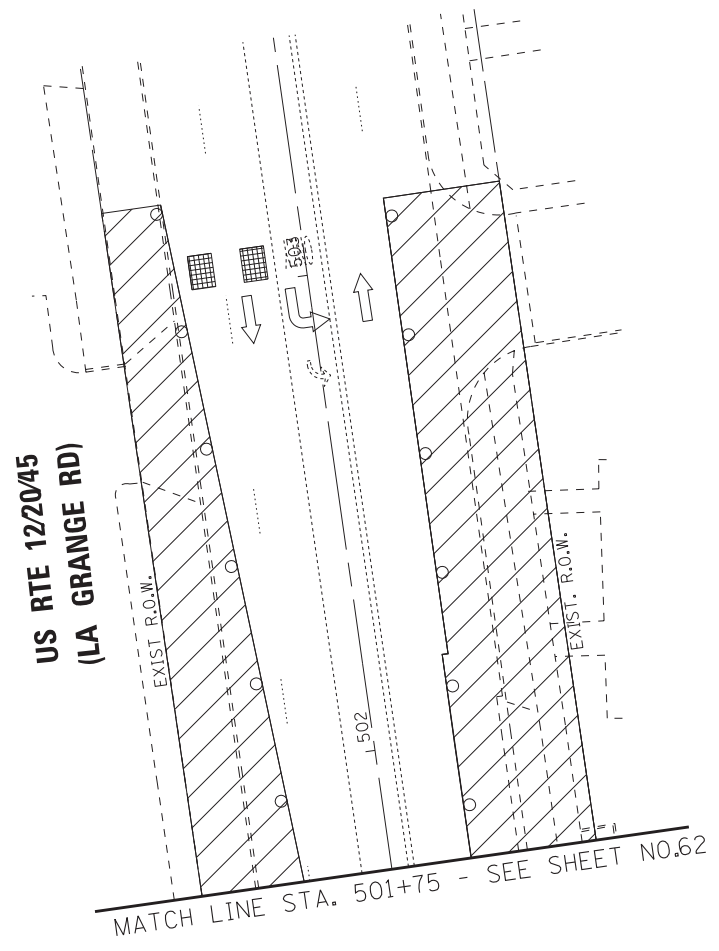
**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**SIGNAL HEAD PLACEMENT FOR STAGE 1 (PHASE A, B, & C)  
 TEMPORARY TRAFFIC SIGNAL INSTALLATION PLAN  
 STAGE 1 (PHASES A, B, & C) (SHEET 2 OF 2)  
 US RTE 34 (OGDEN AVE) AND US RTE 1220/45 (LA GRANGE RD)**

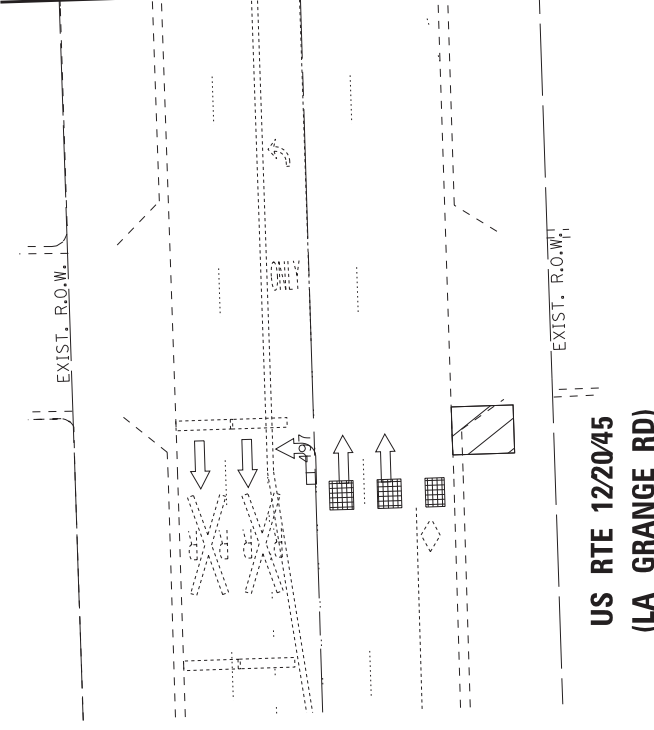
SCALE: 1"=20' SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
330	91Y-N-2	COOK	128	63
FED. ROAD DIST. NO.			ILLINOIS FED. AID PROJECT C-91-138-12	
			CONTRACT NO. 62A47	

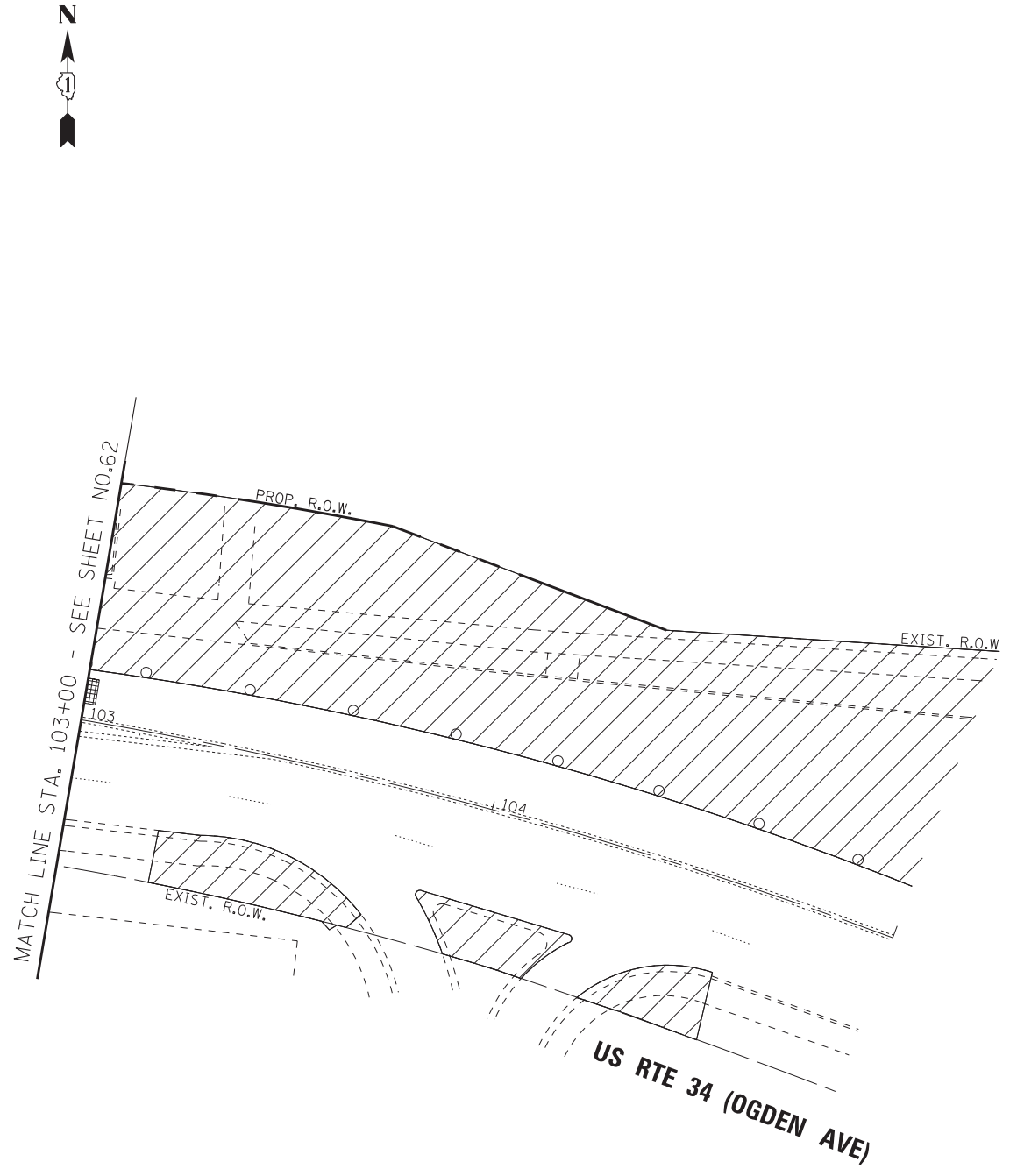
**TS 13910  
 EAGLE 5M**



MATCH LINE STA. 498+00 - SEE SHEET NO.62



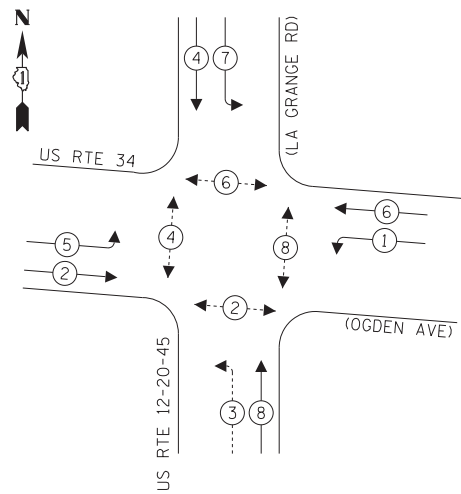
**US RTE 1220/45  
 (LA GRANGE RD)**



MATCH LINE STA. 103+00 - SEE SHEET NO.62



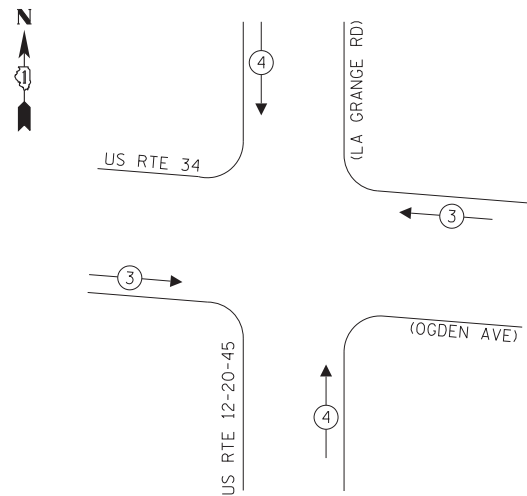
**TEMPORARY CONTROLLER SEQUENCE**



**LEGEND:**

- ← ⊙ → DUAL ENTRY PHASE
- ← ⊙ ⊙ → PROTECTED/PERMITTED PHASE
- ← ⊙ ⊙ → PEDESTRIAN PHASE
- ← ⊙ ⊙ → OVERLAP

**TEMPORARY CONTROLLER SEQUENCE**



**TRAFFIC SIGNAL ELECTRICAL SERVICE REQUIREMENTS**

TYPE	NO. OF LAMPS	LED WATTAGE	% OPERATION	TOTAL WATTAGE
SIGNAL (RED)	12	11	0.50	66.0
(YELLOW)	12	20	0.25	60.0
(GREEN)	12	12	0.25	36.0
PERMISSIVE ARROW	16	10	0.10	16.0
PED. SIGNAL	8	20	1.00	160.0
CONTROLLER	1	100	1.00	100.0
UPS	1	25	1.00	25.0
VIDEO SYSTEM	1	150	1.00	150.0
BLANK-OUT SIGN	-	25	5	-
FLASHER	-	-	50	-
STREET NAME SIGN	-	-	50	-
LUMINAIRE	-	-	-	-
			TOTAL =	613.0

ENERGY COSTS TO:

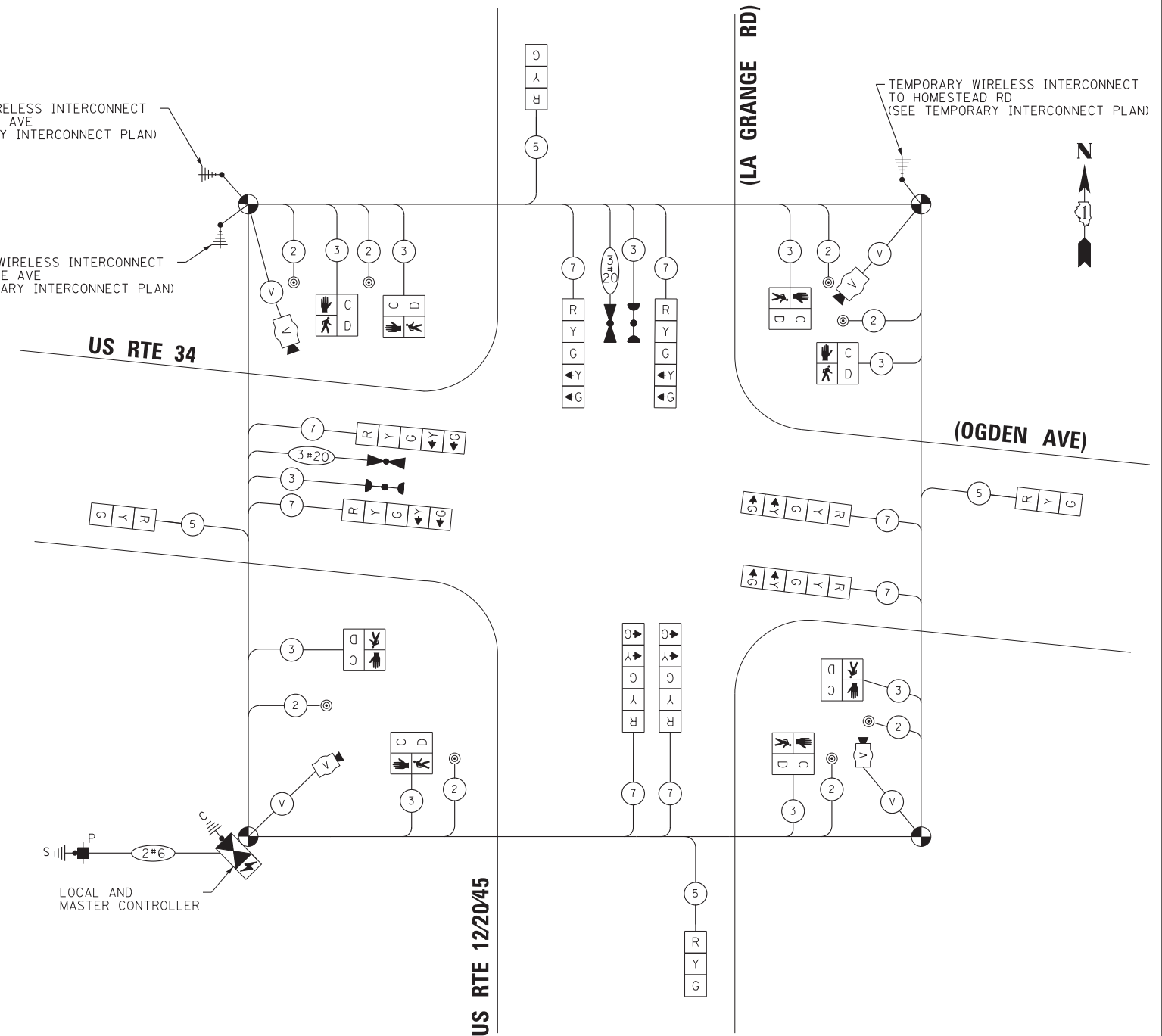
ILLINOIS DEPARTMENT OF TRANSPORTATION  
 DIVISION OF HIGHWAY/DISTRICT 1  
 201 WEST CENTER COURT/SCHAUMBURG, ILLINOIS 60196-1096

ENERGY SUPPLY: CONTACT: DARRYL BELL  
 PHONE: (630) 985-0410  
 COMPANY: COMMONWEALTH EDISON  
 ACCOUNT NUMBER: ---

TEMPORARY WIRELESS INTERCONNECT TO KENSINGTON AVE (SEE TEMPORARY INTERCONNECT PLAN)

TEMPORARY WIRELESS INTERCONNECT TO HILLGROVE AVE (SEE TEMPORARY INTERCONNECT PLAN)

TEMPORARY WIRELESS INTERCONNECT TO HOMESTEAD RD (SEE TEMPORARY INTERCONNECT PLAN)



**CABLE PLAN**

(NOT TO SCALE)

**PRE-STAGE, STAGE 1 (PHASE A, B, & C)**

**NOTE:**

PEDESTRIAN SIGNAL HEADS SHALL BE BAGGED AND DISCONNECTED IF THE SIDEWALK IS CLOSED.

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CHECKED - RWL	REVISED -
DATE - 11-02-16	FILE - Di62A47-sht-TS-Temp-Cable.dgn

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

**PRE-STAGE, STAGE 1 (PHASE A, B, & C)**

TEMPORARY CABLE PLAN, TEMPORARY PHASE DESIGNATION DIAGRAM,  
 AND TEMPORARY EMERGENCY VEHICLE PREEMPTION SEQUENCE  
 US RTE 34 (OGDEN AVE) AND US RTE 12/20/45 (LA GRANGE RD)

SCALE: NONE SHEET OF SHEETS STA. TO STA.

F.A.P. RTE. 330	SECTION 91Y-N-2	COUNTY COOK	TOTAL SHEETS 128	SHEET NO. 64
CONTRACT NO. 62A47				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT C-91-138-12				

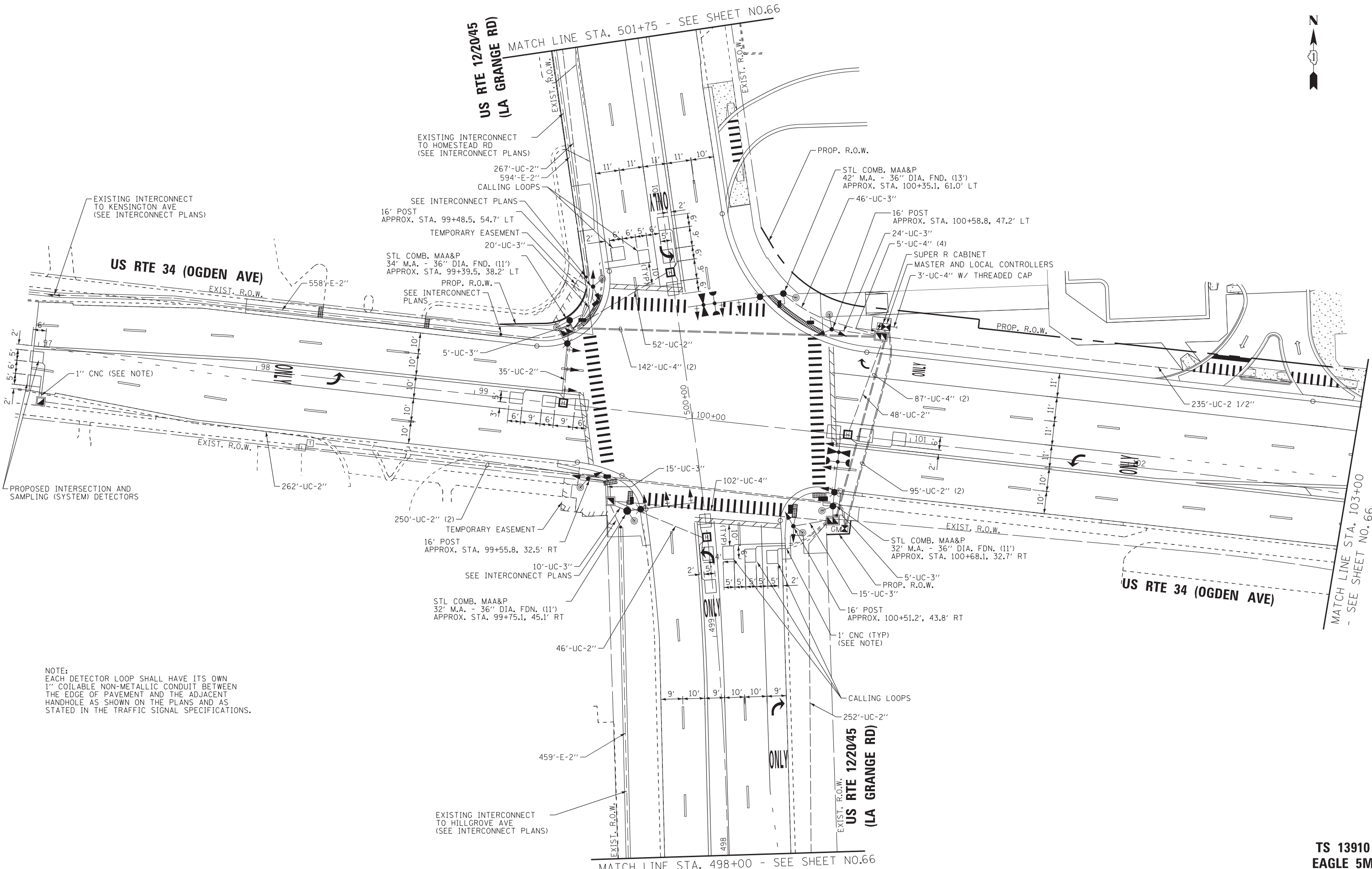
TS 13910  
 EAGLE 5M





US RTE 1220/45  
(LA GRANGE RD)  
MATCH LINE STA. 501+75 - SEE SHEET NO.66

US RTE 34 (OGDEN AVE)



NOTE:  
EACH DETECTOR LOOP SHALL HAVE ITS OWN  
1" COILABLE NON-METALLIC CONDUIT BETWEEN  
THE EDGE OF PAVEMENT AND THE ADJACENT  
HANDHOLE AS SHOWN ON THE PLANS AND AS  
STATED IN THE TRAFFIC SIGNAL SPECIFICATIONS.

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CHECKED - RWL	REVISED -
DATE - 11-02-16	FILE - D162A47-sht-TS-Sigs.dgn

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

TRAFFIC SIGNAL MODERNIZATION PLAN (SHEET 1 OF 2)  
US RTE 34 (OGDEN AVE) AND US RTE 1220/45 (LA GRANGE RD)  
SCALE: 1"=20' SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
330	91Y-N-2	COOK	128	65
CONTRACT NO. 62A47				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT C-91-138-12				

TS 13910  
EAGLE 5M

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 TS SHT NO. 15



NOTE:  
 EACH DETECTOR LOOP SHALL HAVE ITS OWN  
 1" COILABLE NON-METALLIC CONDUIT BETWEEN  
 THE EDGE OF PAVEMENT AND THE ADJACENT  
 HANDHOLE AS SHOWN ON THE PLANS AND AS  
 STATED IN THE TRAFFIC SIGNAL SPECIFICATIONS.

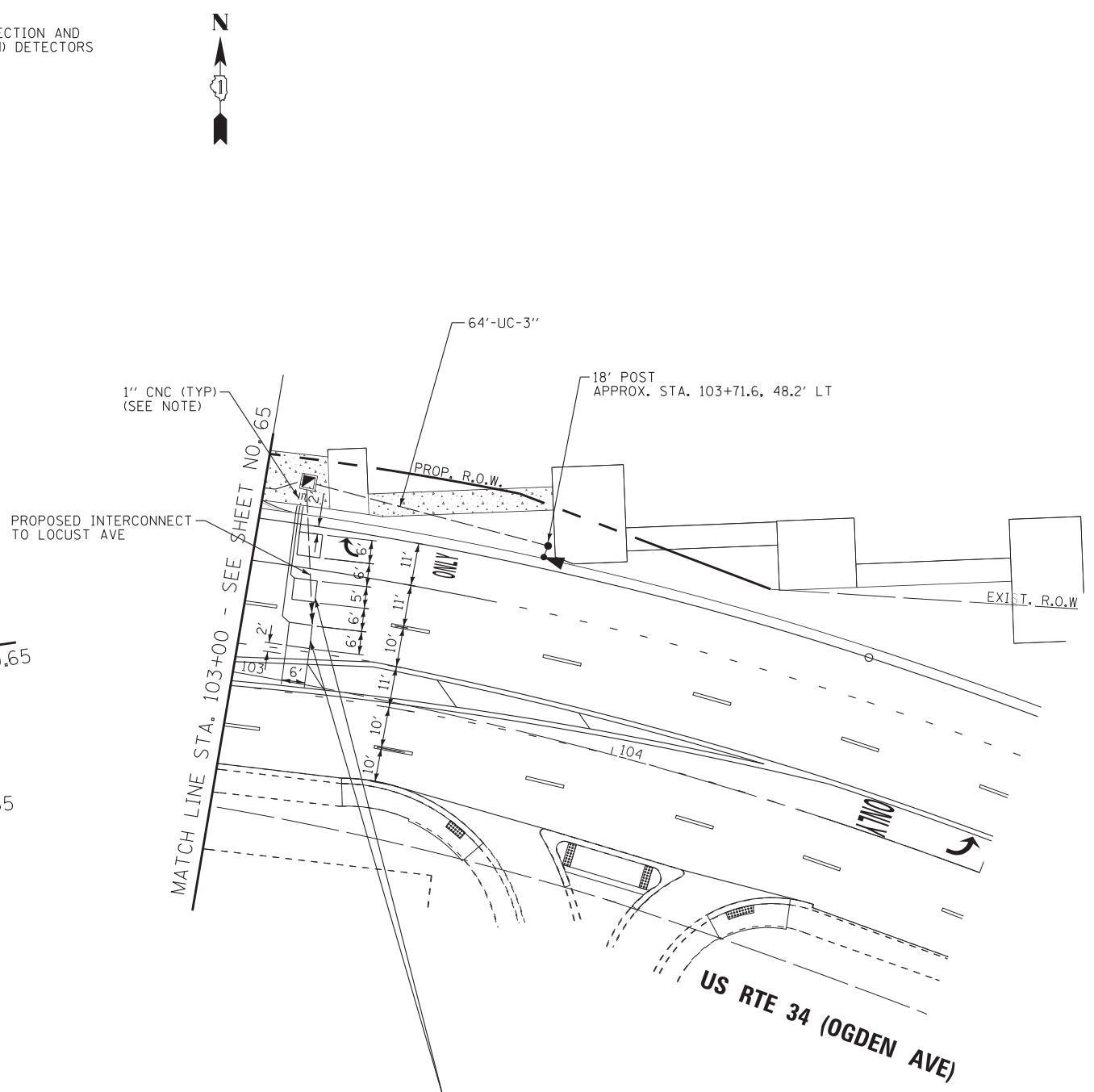
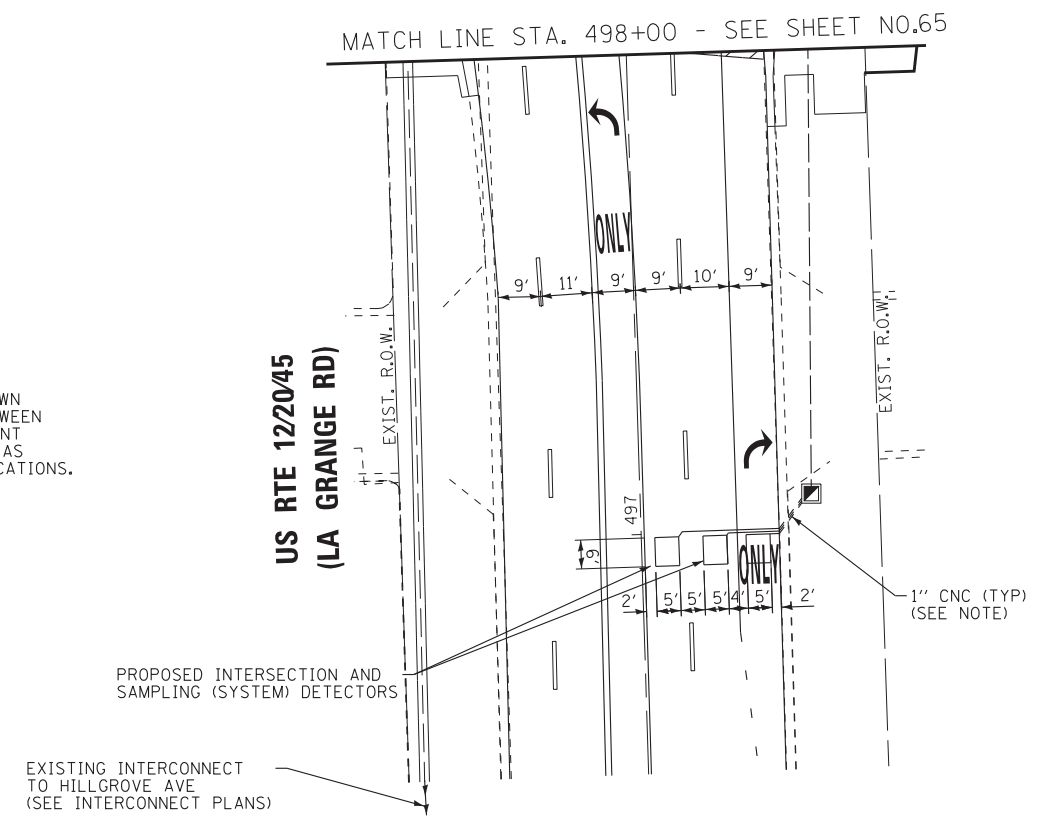
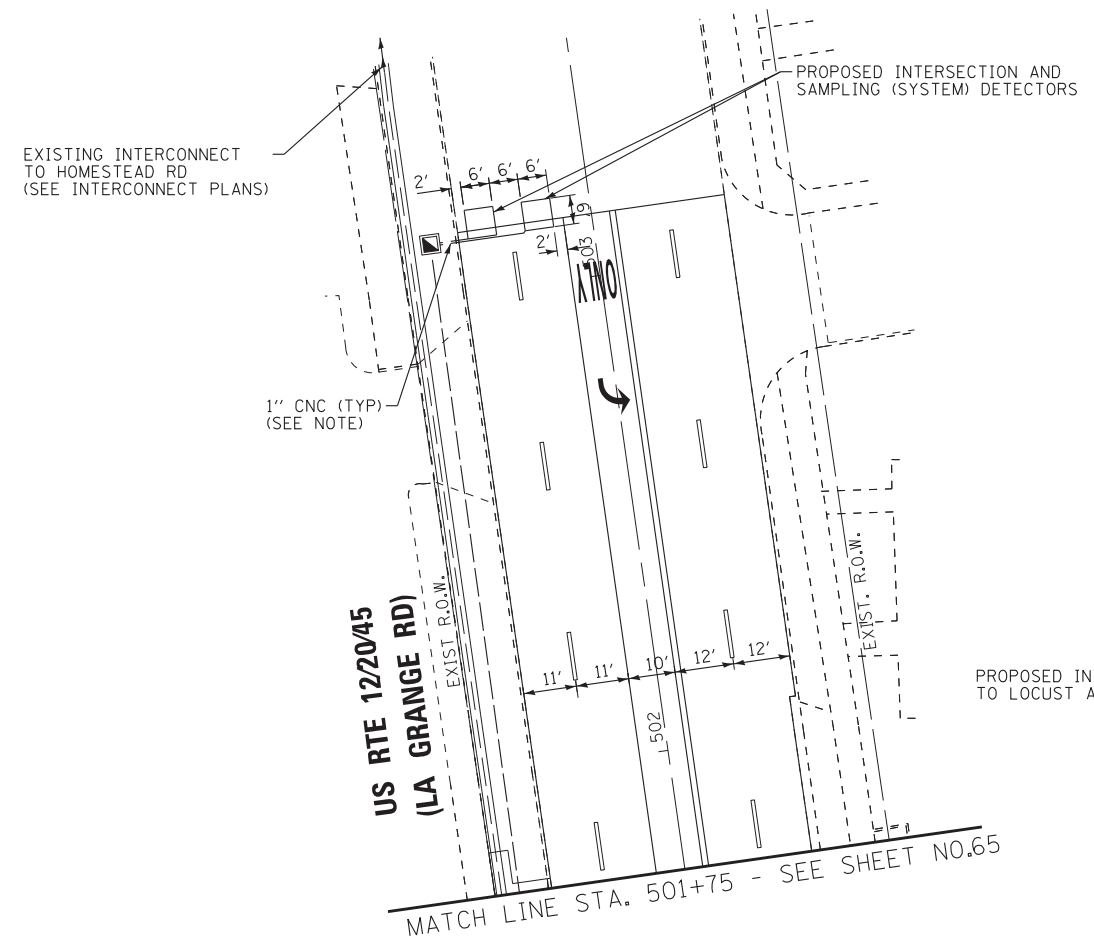
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**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

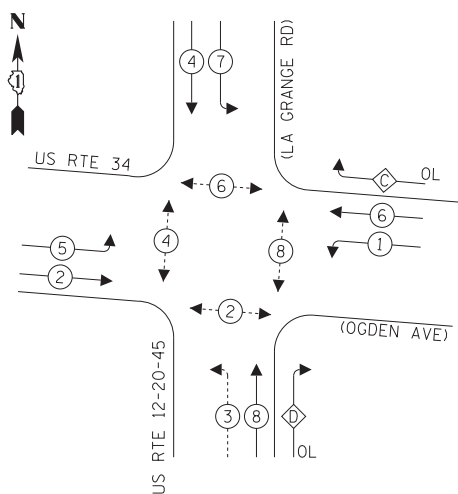
**TRAFFIC SIGNAL MODERNIZATION PLAN (SHEET 2 OF 2)**  
**US RTE 34 (OGDEN AVE) AND US RTE 1220/45 (LA GRANGE RD)**

SCALE: 1"=20' SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
330	91Y-N-2	COOK	128	66
FED. ROAD DIST. NO.			ILLINOIS FED. AID PROJECT C-91-138-12	
CONTRACT NO. 62A47				



**PROPOSED CONTROLLER SEQUENCE**



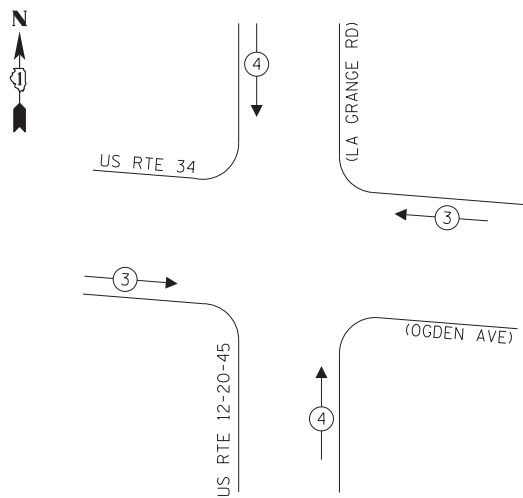
**LEGEND:**

- ← ⊙ → DUAL ENTRY PHASE
- ← ⊙ ⊙ → PROTECTED/PERMITTED PHASE
- ← ⊙ ⊙ → PEDESTRIAN PHASE
- ← ⊙ ⊙ → OVERLAP

**RIGHT TURN OVERLAP PHASE DESIGNATION:**

OVERLAP LETTER	PERMISSIVE PHASE	PROTECTED PHASE
C	= 6	+ 7
D	= 8	+ 1

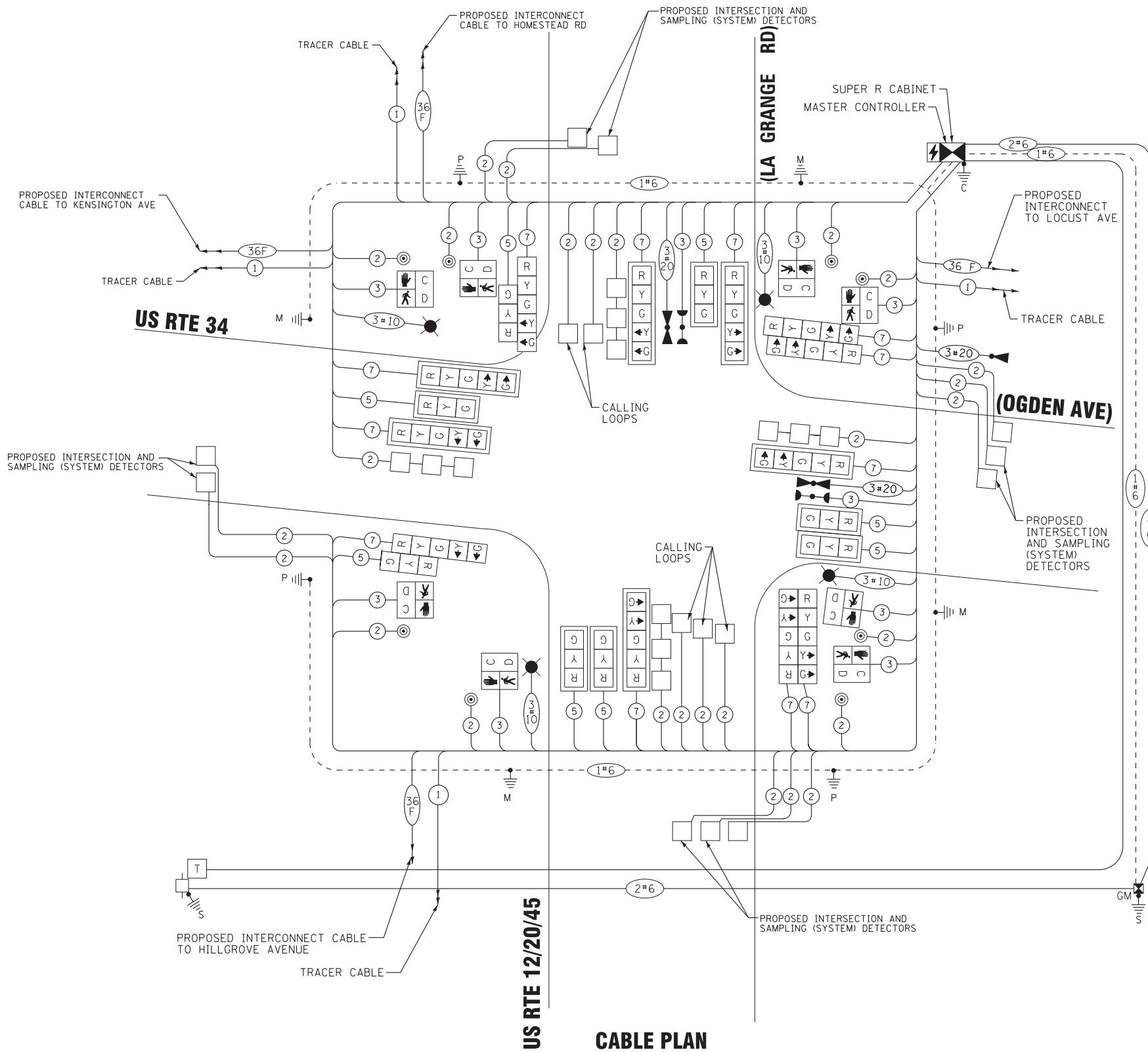
**PROPOSED EMERGENCY VEHICLE PREEMPTION SEQUENCE**



**TRAFFIC SIGNAL ELECTRICAL SERVICE REQUIREMENTS**

TYPE	NO. OF LAMPS	LED WATTAGE	% OPERATION	TOTAL WATTAGE
SIGNAL (RED)	20	11	0.50	110.0
(YELLOW)	20	20	0.25	100.0
(GREEN)	20	12	0.25	60.0
PERMISSIVE ARROW	24	10	0.10	24.0
PED. SIGNAL	8	20	1.00	160.0
CONTROLLER	1	100	1.00	100.0
UPS	1	25	1.00	25.0
VIDEO SYSTEM	-	150	1.00	-
BLANK-OUT SIGN	-	25	5	-
FLASHER	-	-	50	-
STREET NAME SIGN	-	-	50	-
LUMINAIRE	-	-	-	-
TOTAL =				579.0

ENERGY COSTS TO:  
 ILLINOIS DEPARTMENT OF TRANSPORTATION  
 DIVISION OF HIGHWAY/DISTRICT 1  
 201 WEST CENTER COURT/SCHAUMBURG, ILLINOIS 60196-1096  
 ENERGY SUPPLY: CONTACT: DARRYL BELL  
 PHONE: (630) 985-0410  
 COMPANY: COMMONWEALTH EDISON  
 ACCOUNT NUMBER: ---



**CABLE PLAN**  
(NOT TO SCALE)

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DRAWN - UKB	REVISED -
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STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

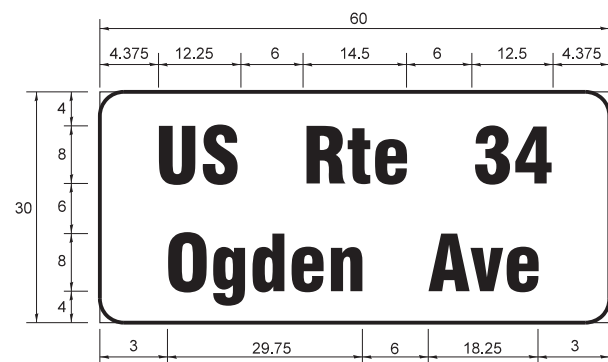
CABLE PLAN, PHASE DESIGNATION DIAGRAM  
AND EMERGENCY VEHICLE PREEMPTION SEQUENCE  
US RTE 34 (OGDEN AVE) AND US RTE 12/20/45 (LA GRANGE RD)

SCALE: NONE SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
330	91Y-N-2	COOK	128	67
CONTRACT NO. 62A47				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT C-91-138-12				

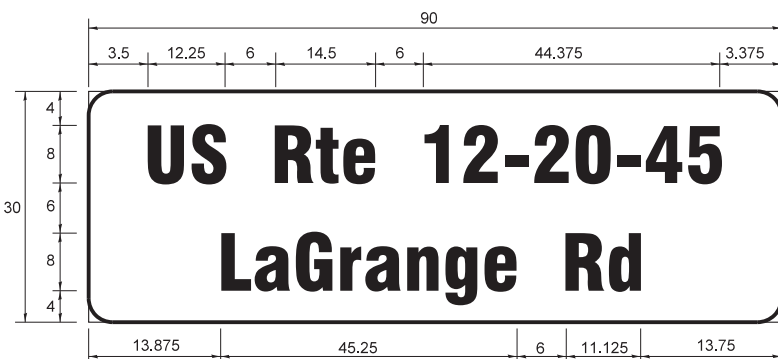
TS 13910  
EAGLE 5M

**SIGNAL PANEL TYPE 2**



DESIGN SERIES	AREA (SQ FT)	SIGN PANEL TYPE	SHEETING TYPE	QTY. REQUIRED
D	12.5	2	ZZ	2

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



DESIGN SERIES	AREA (SQ FT)	SIGN PANEL TYPE	SHEETING TYPE	QTY. REQUIRED
D	18.75	2	ZZ	2

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

**SCHEDULE OF QUANTITIES**

ALL ITEMS 90% FEDERAL (HSIP), 10% STATE EXCEPT AS NOTED

SCHEDULE OF QUANTITIES		
ITEM DESCRIPTION	UNITS	TOTAL QTY.
SIGN PANEL - TYPE 2	SQ FT	63
UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA.	FOOT	1,652
UNDERGROUND CONDUIT, GALVANIZED STEEL, 3" DIA.	FOOT	439
UNDERGROUND CONDUIT, GALVANIZED STEEL, 4" DIA.	FOOT	583
HANDHOLE	EACH	5
HEAVY DUTY HANDHOLE	EACH	4
DOUBLE HANDHOLE	EACH	3
* PAINT NEW TRAFFIC SIGNAL POST	EACH	5
* PAINT NEW COMBINATION MAST ARM AND POLE, UNDER 40 FOOT	EACH	3
* PAINT NEW COMBINATION MAST ARM AND POLE, 40 FOOT AND OVER	EACH	1
ELECTRIC CABLE IN CONDUIT, SIGNAL, NO. 14 2C	FOOT	1,335
ELECTRIC CABLE IN CONDUIT, SIGNAL, NO. 14 3C	FOOT	1,707
ELECTRIC CABLE IN CONDUIT, SIGNAL, NO. 14 5C	FOOT	1,748
ELECTRIC CABLE IN CONDUIT, SIGNAL, NO. 14 7C	FOOT	2,128
ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1 PAIR	FOOT	5,374
ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2C	FOOT	740
ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C	FOOT	1,926
TRAFFIC SIGNAL POST, GALVANIZED STEEL 16 FT.	EACH	4
TRAFFIC SIGNAL POST, GALVANIZED STEEL 18 FT.	EACH	1
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 32 FT.	EACH	2
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 34 FT.	EACH	1
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 42 FT.	EACH	1
CONCRETE FCUNDATION, TYPE A	FOOT	24
CONCRETE FCUNDATION, TYPE C	FOOT	4
CONCRETE FCUNDATION, TYPE E 36-INCH DIAMETER	FOOT	46
SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST-ARM MOUNTED	EACH	6
SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED	EACH	2
SIGNAL HEAD, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED	EACH	6
SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST-ARM MOUNTED	EACH	6
PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER	EACH	8
TRAFFIC SIGNAL BACKPLATE, LOUVERED, FORMED PLASTIC	EACH	12
INDUCTIVE LOOP DETECTOR	EACH	19
DETECTOR LOOP, TYPE I	FOOT	913
** LIGHT DETECTOR	EACH	3
** LIGHT DETECTOR AMPLIFIER	EACH	1
PEDESTRIAN PUSH BUTTON	EACH	8
TEMPORARY TRAFFIC SIGNAL INSTALLATION	EACH	1
REMOVE ELECTRIC CABLE FROM CONDUIT	FOOT	8,542
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
REMOVE EXISTING HANDHOLE	EACH	7
REMOVE EXISTING DOUBLE HANDHOLE	EACH	1
REMOVE EXISTING CONCRETE FOUNDATION	EACH	9
* EMERGENCY VEHICLE PRIORITY SYSTEM LINE SENSOR CABLE, NO. 20 3/C	FOOT	668
FULL-ACTUATED CONTROLLER AND TYPE SUPER R CABINET (SPECIAL)	EACH	1
SERVICE INSTALLATION, GROUND MOUNTED, METERED	EACH	1
UNINTERRUPTABLE POWER SUPPLY, SPECIAL	EACH	1
TEMPORARY TRAFFIC SIGNAL TIMING	EACH	1

\* 70% FEDERAL (STP), 30% VILLAGE OF LA GRANGE

\*\* 100% COST TO THE VILLAGE OF LA GRANGE

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

MAST ARM MOUNTED STREET NAME SIGNS  
AND SCHEDULE OF QUANTITIES  
US RTE 34 (OGDEN AVE) AND US RTE 12/20/45 (LA GRANGE RD)

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
330	91Y-N-2	COOK	128	68
CONTRACT NO. 62A47				

SCALE: NONE SHEET OF SHEETS STA. TO STA.

FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT C-91-138-12

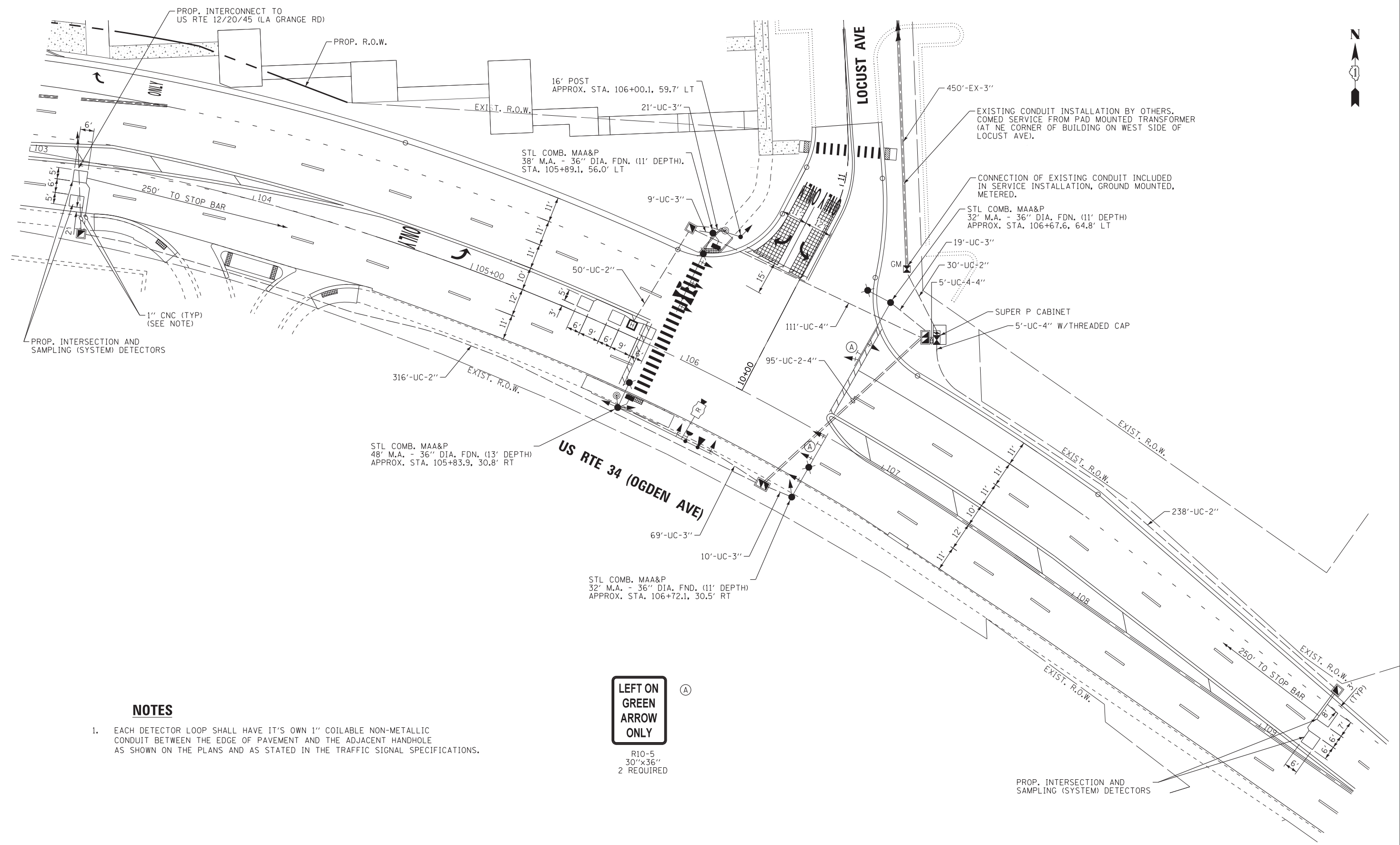
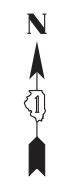
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**BAXTER & WOODMAN**  
Consulting Engineers

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DRAWN - UKB	REVISED -
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DATE - 11-02-16	FILE - D162A47-sh+TS-Cable.dgn

TS 13910  
EAGLE 5M





**NOTES**

- EACH DETECTOR LOOP SHALL HAVE IT'S OWN 1" COILABLE NON-METALLIC CONDUIT BETWEEN THE EDGE OF PAVEMENT AND THE ADJACENT HANDHOLE AS SHOWN ON THE PLANS AND AS STATED IN THE TRAFFIC SIGNAL SPECIFICATIONS.

**LEFT ON GREEN  
ARROW  
ONLY**

R10-5  
30"x36"  
2 REQUIRED

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**TS SH1 NO. 18**



DESIGNED - RWL	REVISED - PER IDOT 11-10-16
DRAWN - UKB	REVISED -
CHECKED - RWL	REVISED -
DATE - 11-02-16	FILE - D162447-sh+TS-Sigs2.dgn

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

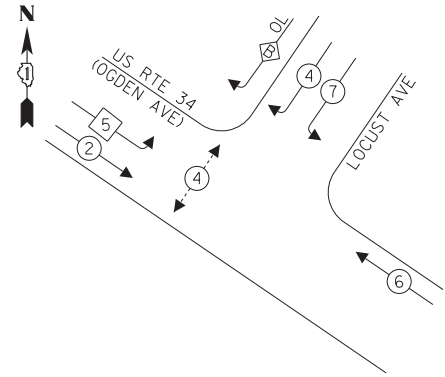
**TRAFFIC SIGNAL MODERNIZATION PLAN (SHEET 1 OF 1)  
US RTE 34 (OGDEN AVE) AND LOCUST AVE**

SCALE: 1" = 20' SHEET 1 OF 1 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
330	91Y-N-2	COOK	128	69
CONTRACT NO. 62A47				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT C-91-138-12				

**TS 13912  
EAGLE 5M**

**PROPOSED CONTROLLER SEQUENCE**



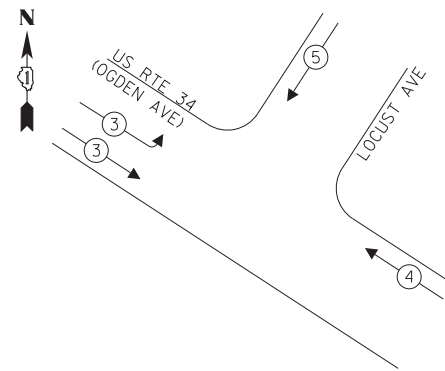
**LEGEND:**

- ← \* → PROTECTED PHASE
- ← \* ··· → PROTECTED/PERMITTED PHASE
- ← \* ··· → PEDESTRIAN PHASE
- ← \* OL → OVERLAP

**RIGHT TURN OVERLAP PHASE DESIGNATION:**

OVERLAP LETTER	PERMISSIVE PHASE	PROTECTED PHASE
B	= 4	+ 5

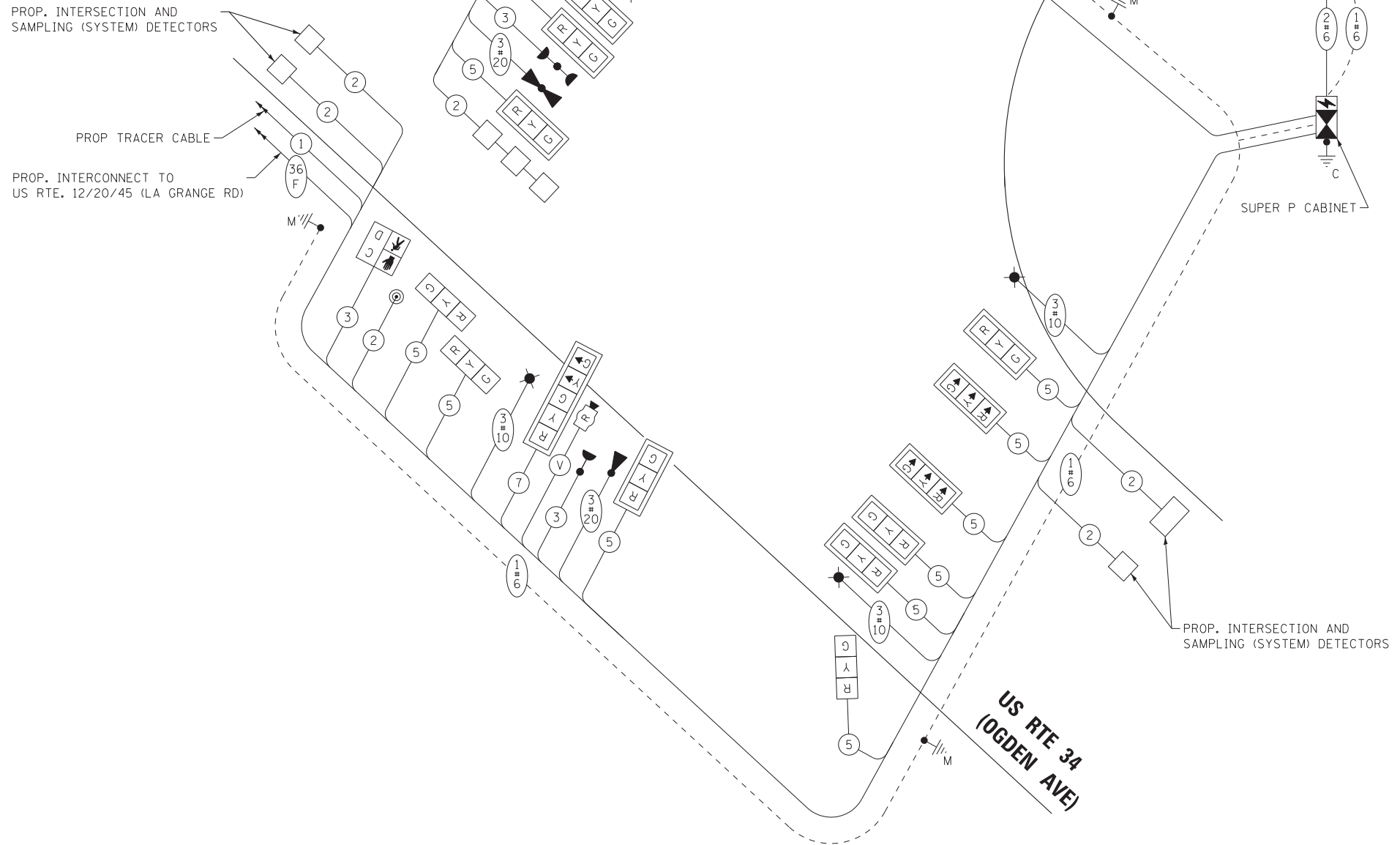
**PROPOSED EMERGENCY VEHICLE PREEMPTION SEQUENCE**



PROP. INTERSECTION AND SAMPLING (SYSTEM) DETECTORS

PROP TRACER CABLE

PROP. INTERCONNECT TO US RTE. 12/20/45 (LA GRANGE RD)



PROP. INTERSECTION AND SAMPLING (SYSTEM) DETECTORS

**CABLE PLAN**  
(NOT TO SCALE)

**TRAFFIC SIGNAL ELECTRICAL SERVICE REQUIREMENTS**

TYPE	NO. OF LAMPS	LED WATTAGE	% OPERATION	TOTAL WATTAGE
SIGNAL (RED)	12	11	50	66.0
(YELLOW)	12	20	5	12.0
(GREEN)	12	12	45	64.8
PERMISSIVE ARROW	10	10	10	10.0
PED. SIGNAL	2	20	100	40.0
CONTROLLER	1	100	100	100.0
UPS	1	25	100	25.0
VIDEO SYSTEM	-	150	100	-
BLANK-OUT SIGN	-	25	5	-
FLASHER	-	-	50	-
STREET NAME SIGN	-	120	50	-
LUMINAIRE	4	140	50	280.0
TOTAL =				597.8

ENERGY COSTS TO:

ILLINOIS DEPARTMENT OF TRANSPORTATION  
DIVISION OF HIGHWAY/DISTRICT 1  
201 WEST CENTER COURT/SCHAUMBURG, ILLINOIS 60196-1096

ENERGY SUPPLY: CONTACT: DARRYL BELL  
PHONE: (630) 985-0410  
COMPANY: COMMONWEALTH EDISON  
ACCOUNT NUMBER: ---

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DESIGNED - RWL	REVISED -
DRAWN - UKB	REVISED -
CHECKED - RWL	REVISED -
DATE - 11-02-16	FILE - DI62A47-TS-Cable2.dgn

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

**CABLE PLAN, PHASE DESIGNATION DIAGRAM,  
AND EMERGENCY VEHICLE PREEMPTION SEQUENCE  
US RTE 34 (OGDEN AVE) AND LOCUST AVE**

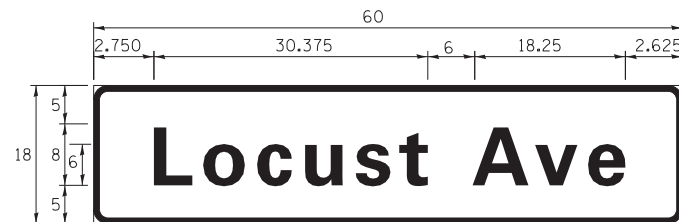
SCALE: NONE SHEET OF SHEETS STA. TO STA.

**TS 13912**  
**EAGLE 5M**

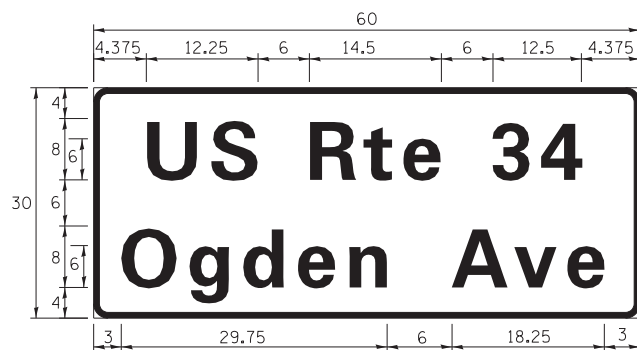
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
330	91Y-N-2	COOK	128	70
CONTRACT NO. 62A47				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT C-91-138-12				

**SIGN PANEL – TYPE 1 OR TYPE 2**

ALL DIMENSIONS ARE IN INCHES UNLESS NOTED OTHERWISE



DESIGN SERIES	AREA (SQ FT)	SIGN PANEL TYPE	SHEETING TYPE	QTY. REQUIRED
D	7.50	1	ZZ	2



DESIGN SERIES	AREA (SQ FT)	SIGN PANEL TYPE	SHEETING TYPE	QTY. REQUIRED
D	12.50	2	ZZ	1

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

**SCHEDULE OF QUANTITIES**

ALL ITEMS 70% FEDERAL (STP), 30% VILLAGE OF LA GRANGE, EXCEPT AS NOTED

SCHEDULE OF QUANTITIES		
ITEM DESCRIPTION	UNITS	TOTAL QTY.
SIGN PANEL - TYPE 1	SQ FT	30
SIGN PANEL - TYPE 2	SQ FT	13
UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA.	FOOT	634
UNDERGROUND CONDUIT, GALVANIZED STEEL, 3" DIA.	FOOT	128
UNDERGROUND CONDUIT, GALVANIZED STEEL, 4" DIA.	FOOT	325
HANDHOLE	EACH	3
HEAVY DUTY HANDHOLE	EACH	1
DOUBLE HANDHOLE	EACH	2
PAINT NEW TRAFFIC SIGNAL POST	EACH	1
PAINT NEW COMBINATION MAST ARM AND POLE, UNDER 40 FOOT	EACH	3
PAINT NEW COMBINATION MAST ARM AND POLE, 40 FOOT AND OVER	EACH	1
ELECTRIC CABLE IN CONDUIT, SIGNAL, NO. 14 2C	FOOT	364
ELECTRIC CABLE IN CONDUIT, SIGNAL, NO. 14 3C	FOOT	839
ELECTRIC CABLE IN CONDUIT, SIGNAL, NO. 14 5C	FOOT	2153
ELECTRIC CABLE IN CONDUIT, SIGNAL, NO. 14 7C	FOOT	427
ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1 PAIR	FOOT	1637
ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2C	FOOT	509
ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C	FOOT	1108
TRAFFIC SIGNAL POST, GALVANIZED STEEL 16 FT.	EACH	1
STEEL COMBNATION MAST ARM ASSEMBLY AND POLE 32 FT.	EACH	2
STEEL COMBNATION MAST ARM ASSEMBLY AND POLE 38 FT.	EACH	1
STEEL COMBNATION MAST ARM ASSEMBLY AND POLE 48 FT.	EACH	1
CONCRETE FOUNDATION, TYPE A	FOOT	8
CONCRETE FOUNDATION, TYPE C	FOOT	4
CONCRETE FOUNDATION, TYPE E 36-INCH DIAMETER	FOOT	46
SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST-ARM MOUNTED	EACH	9
SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED	EACH	3
SIGNAL HEAD, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED	EACH	1
SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST-ARM MOUNTED	EACH	1
PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER	EACH	2
TRAFFIC SIGNAL BACKPLATE, LOUVERED, FORMED PLASTIC	EACH	10
INDUCTIVE LOOP DETECTOR	EACH	5
DETECTOR LOOP, TYPE I	FOOT	225
* LIGHT DETECTOR	EACH	2
* LIGHT DETECTOR AMPLIFIER	EACH	1
PEDESTRIAN PUSH BUTTON	EACH	2
* EMERGENCY VEHICLE PRIORITY SYSTEM LINE SENSOR CABLE, NO. 20 3/C	FOOT	461
FULL-ACTUATED CONTROLLER AND TYPE SUPER P CABINET (SPECIAL)	EACH	1
SERVICE INSTALLATION, GROUND MOUNTED, METERED	EACH	1
UNINTERRUPTABLE POWER SUPPLY, SPECIAL	EACH	1
RADAR VEHICLE DETECTION SYSTEM, SINGLE APPROACH, STOP BAR	EACH	1

\* 100% VILLAGE OF LA GRANGE

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DRAWN - UKB	REVISED -
CHECKED - RWL	REVISED -
DATE - 11-02-16	FILE - D162A47-TS-Cable2.dgn

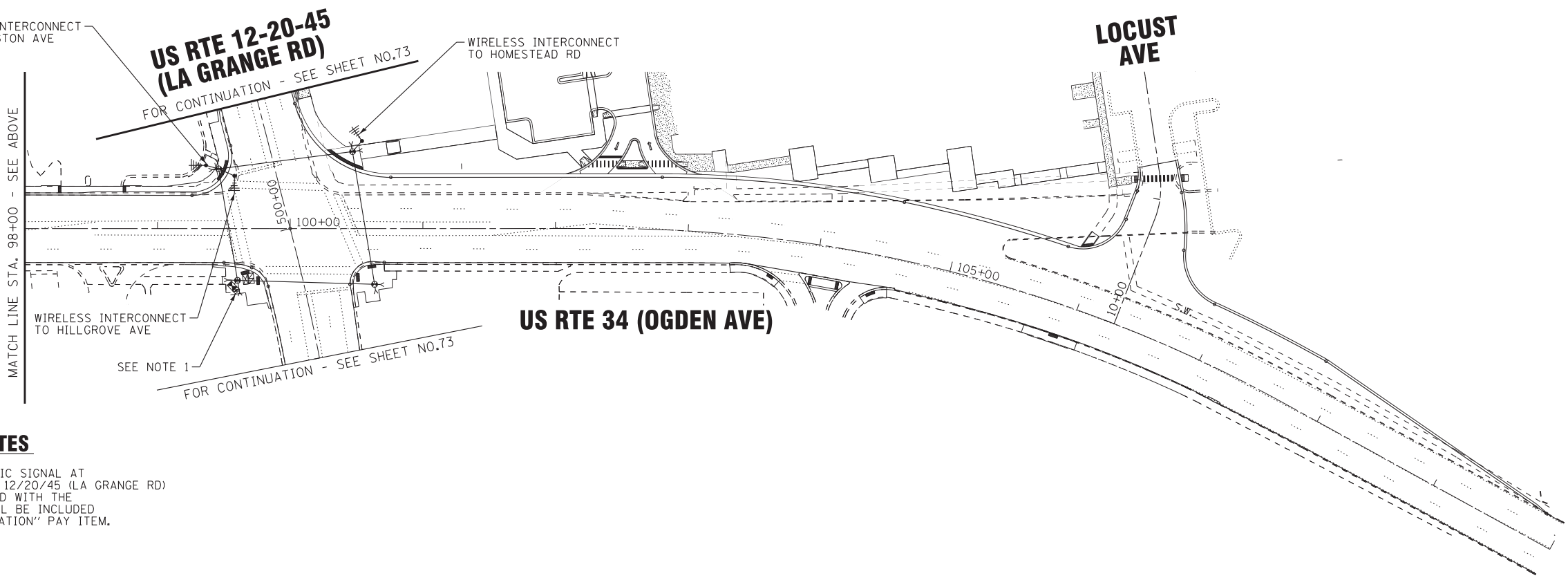
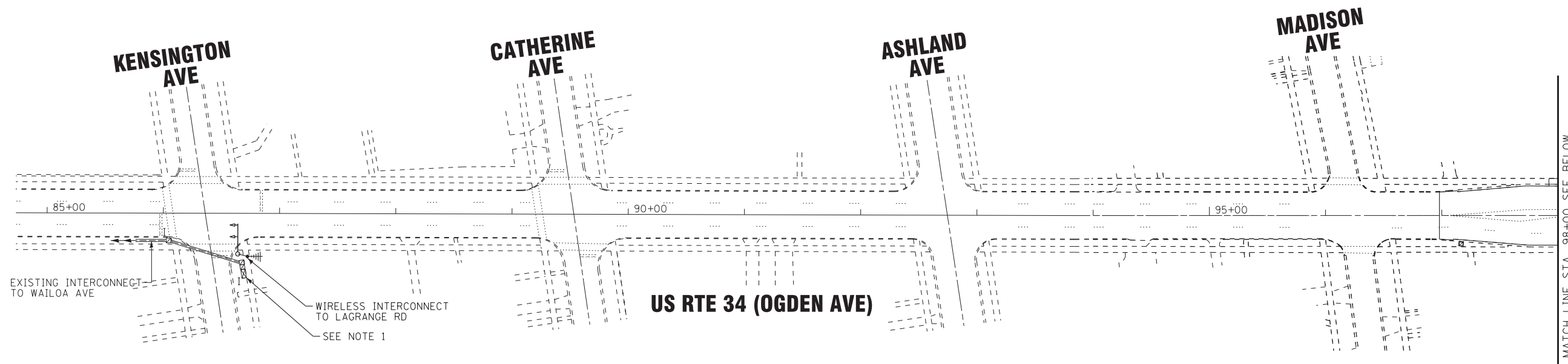
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

MAST ARM MOUNTED STREET NAME SIGNS  
AND SCHEDULE OF QUANTITIES  
US RTE 34 (OGDEN AVE) AND LOCUST AVE

SCALE: NONE SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
330	91Y-N-2	COOK	128	71
CONTRACT NO. 62A47				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT C-91-138-12				

TS 13912  
EAGLE 5M



**TEMPORARY INTERCONNECT NOTES**

1. CONTRACTOR SHALL MAINTAIN EXISTING TRAFFIC SIGNAL AT US 34 (OGDEN AVE) WITH KENSINGTON AND US 12/20/45 (LA GRANGE RD) DURING CONSTRUCTION. ALL WORK ASSOCIATED WITH THE ANTENNA, CABLE, AND ITEMS IN CABINET SHALL BE INCLUDED IN THE "TEMPORARY TRAFFIC SIGNAL INSTALLATION" PAY ITEM.

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STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

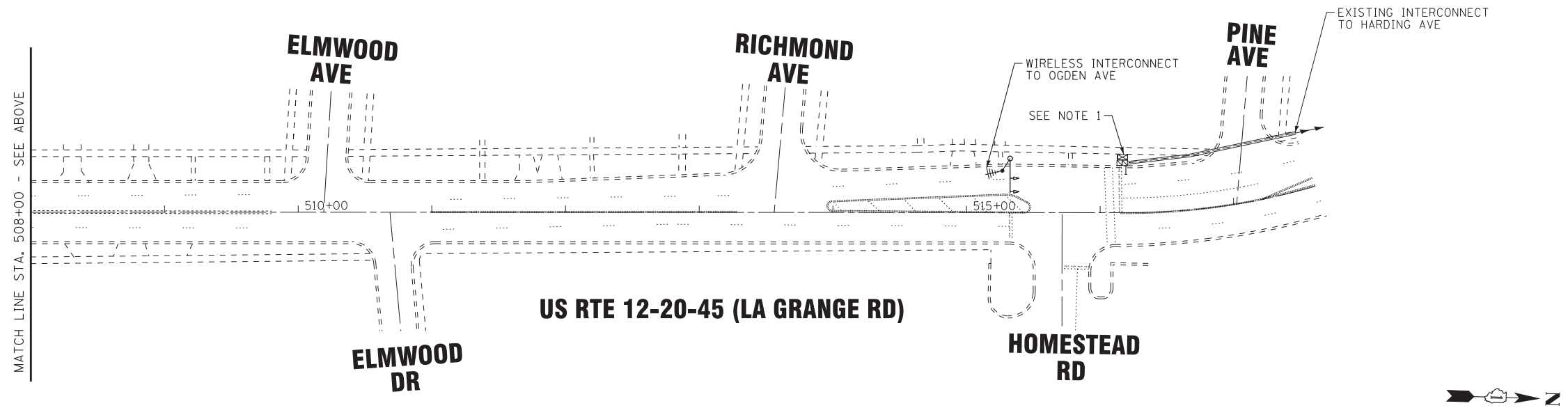
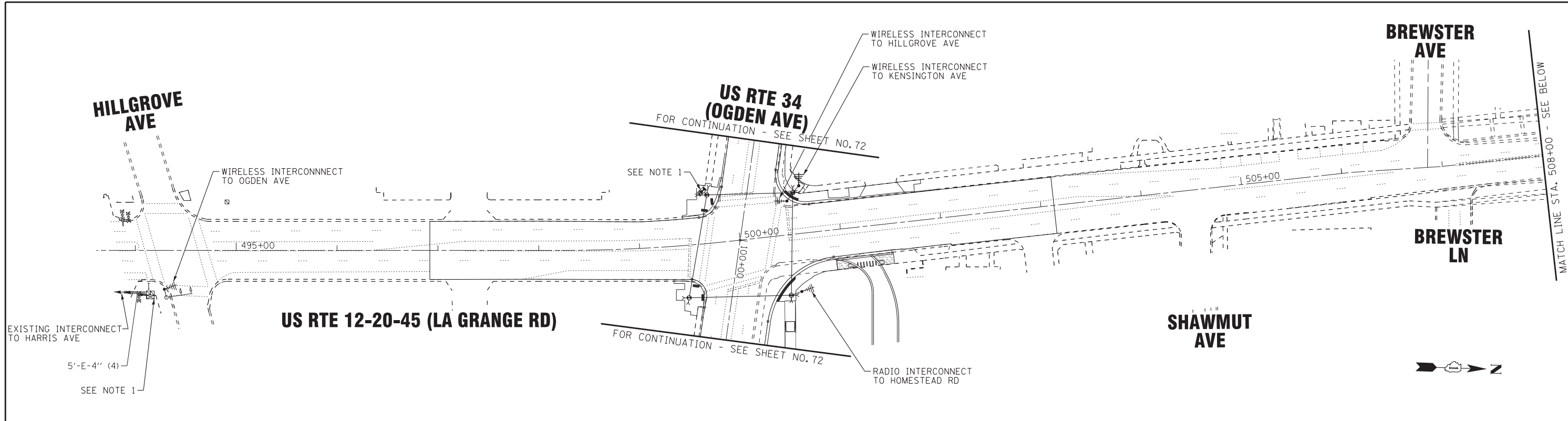
TEMPORARY INTERCONNECT PLAN (SHEET 1 OF 2)  
US RTE 34 (OGDEN AVE) -  
KENSINGTON AVE TO US RTE 12-20-45 (LA GRANGE RD)  
SCALE: 1"=50' SHEET OF SHEETS STA. TO STA.

F.A.P. RTE. 330	SECTION 91Y-N-2	COUNTY COOK	TOTAL SHEETS 128	SHEET NO. 72
FED. ROAD DIST. NO.			ILLINOIS FED. AID PROJECT C-91-138-12	

**EAGLE 5M**

CONTRACT NO. 62A47





**TEMPORARY INTERCONNECT NOTES**

- CONTRACTOR SHALL MAINTAIN EXISTING TRAFFIC SIGNAL AT US 12/20/45 (LA GRANGE RD) WITH HILLGROVE AVE, US RTE 34 (OGDEN AVE), AND HOMESTEAD RD DURING CONSTRUCTION. ALL WORK ASSOCIATED WITH THE ANTENNA, CABLE, AND ITEMS IN CABINET SHALL BE INCLUDED IN THE "TEMPORARY TRAFFIC SIGNAL INSTALLATION" PAY ITEM.

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	DATE - 11-02-16	FILE - Di62A47-sht-TS-Temp-Inter-cnct.dgn

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DEPARTMENT OF TRANSPORTATION

**TEMPORARY INTERCONNECT PLAN (SHEET 2 OF 2)**  
**US RTE 12-20-45 (LA GRANGE RD) -**  
**HILLGROVE AVE TO HOMESTEAD RD**

SCALE: 1"=50' SHEET OF SHEETS STA. TO STA.

<b>EAGLE 5M</b>		F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		330	91Y-N-2	COOK	128	73
		CONTRACT NO. 62A47				
		FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT C-91-138-12				

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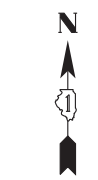
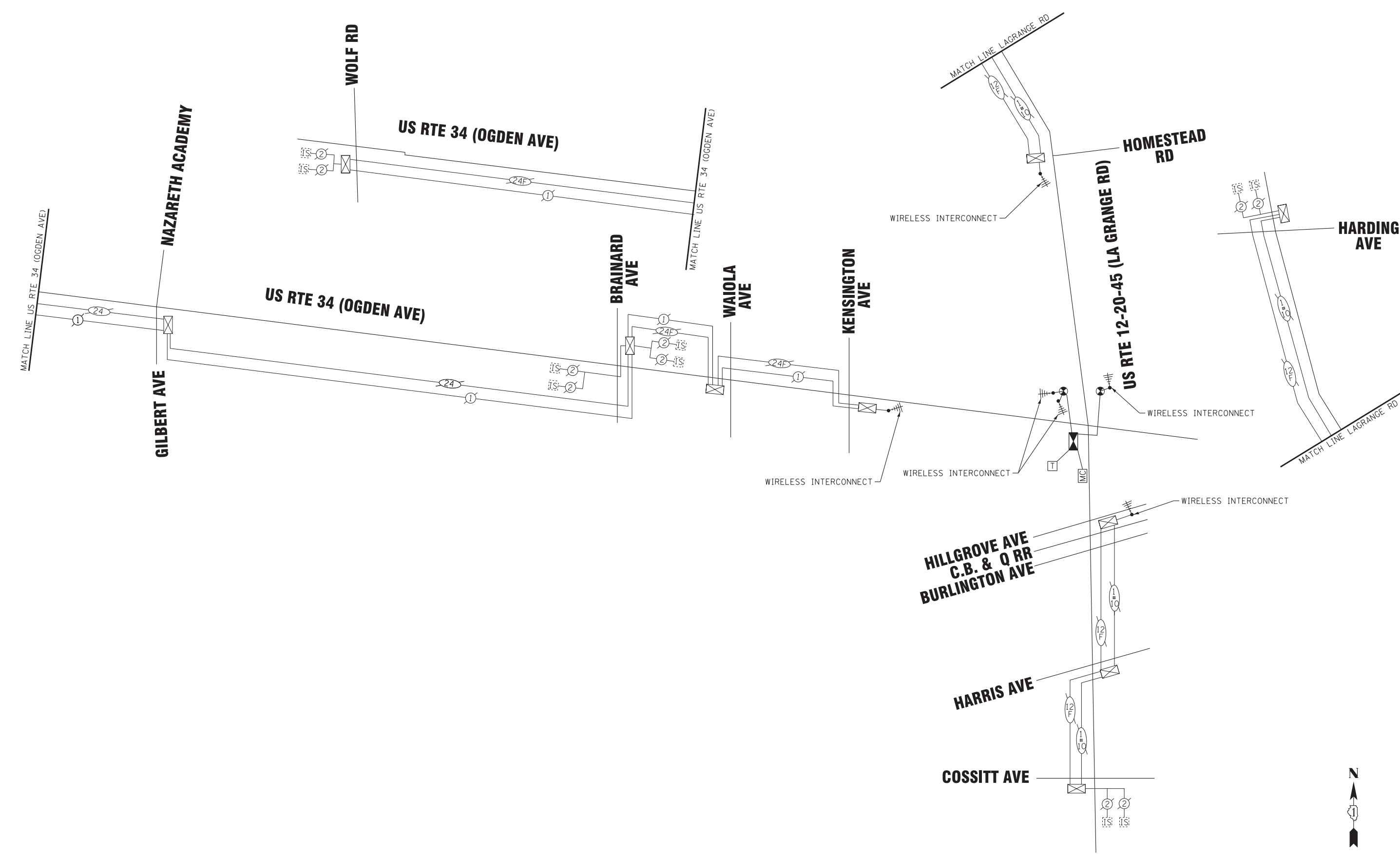


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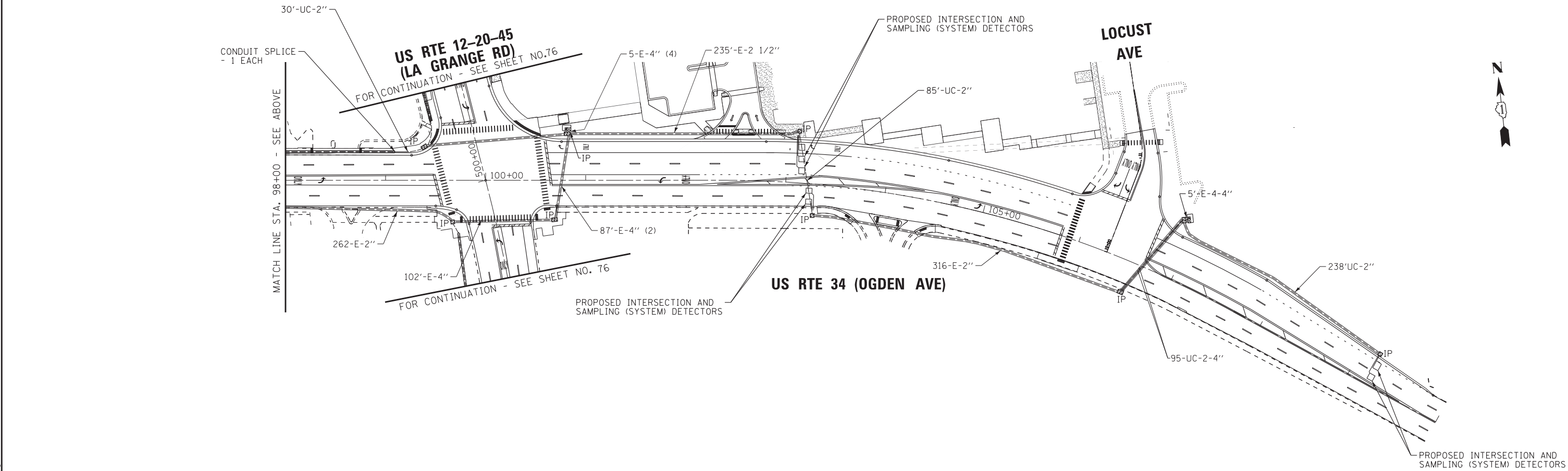
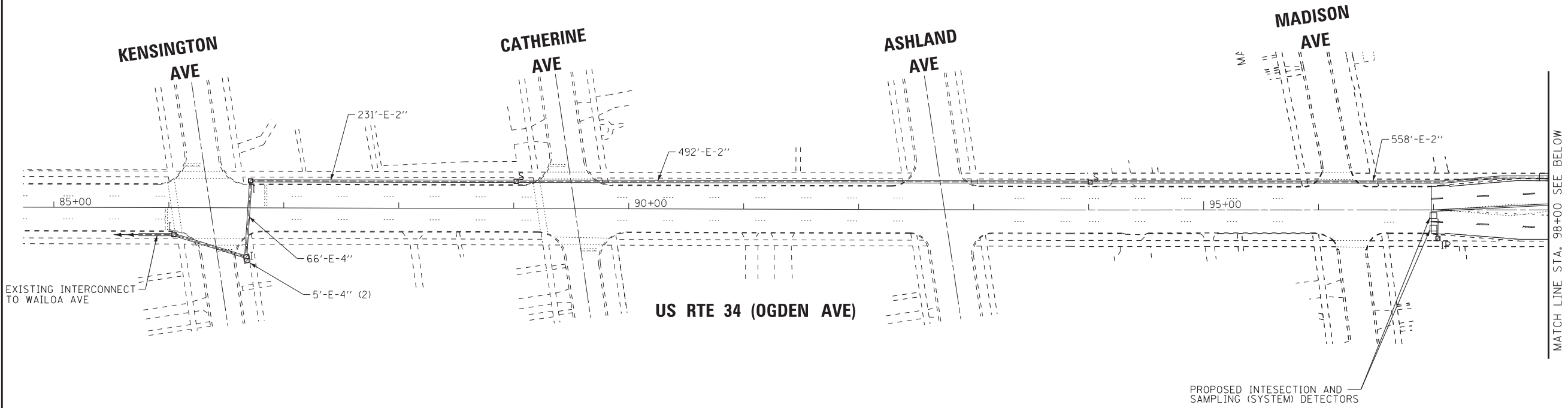
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 DEPARTMENT OF TRANSPORTATION**

TEMPORARY INTERCONNECT SCHEMATIC			
US RTE 34 (OGDEN AVE) - WOLF RD TO LAGRANGE RD			
US RTE 12-20-45 (LA GRANGE RD) - COSSITT AVE TO HARDING AVE			
SCALE: NONE	SHEET	OF	SHEETS
STA.	TO STA.		

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
330	91Y-N-2	COOK	128	74
CONTRACT NO. 62A47				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT C-91-138-12				



**EAGLE 5M**



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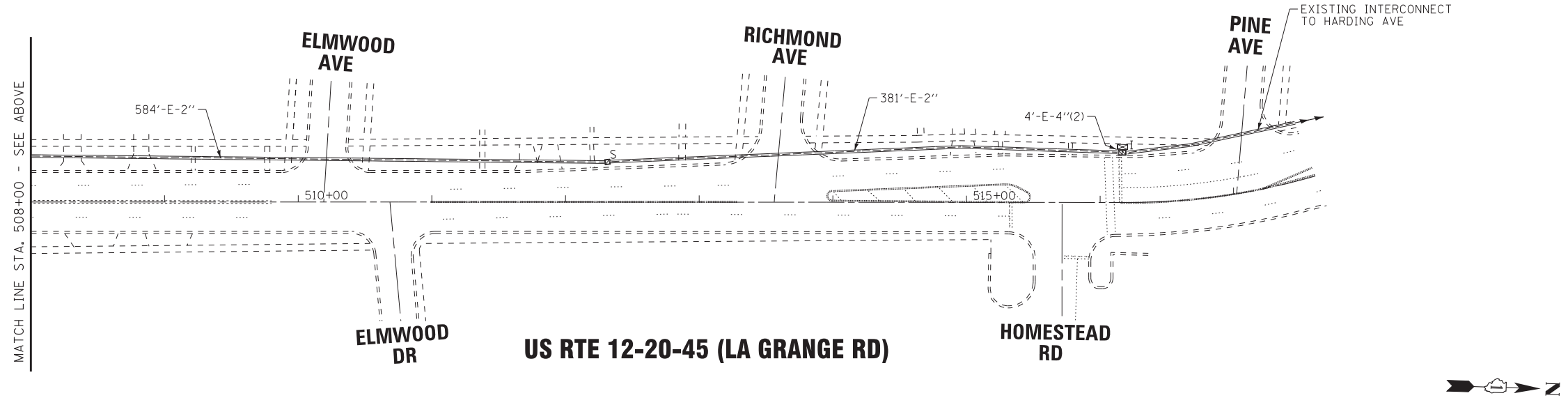
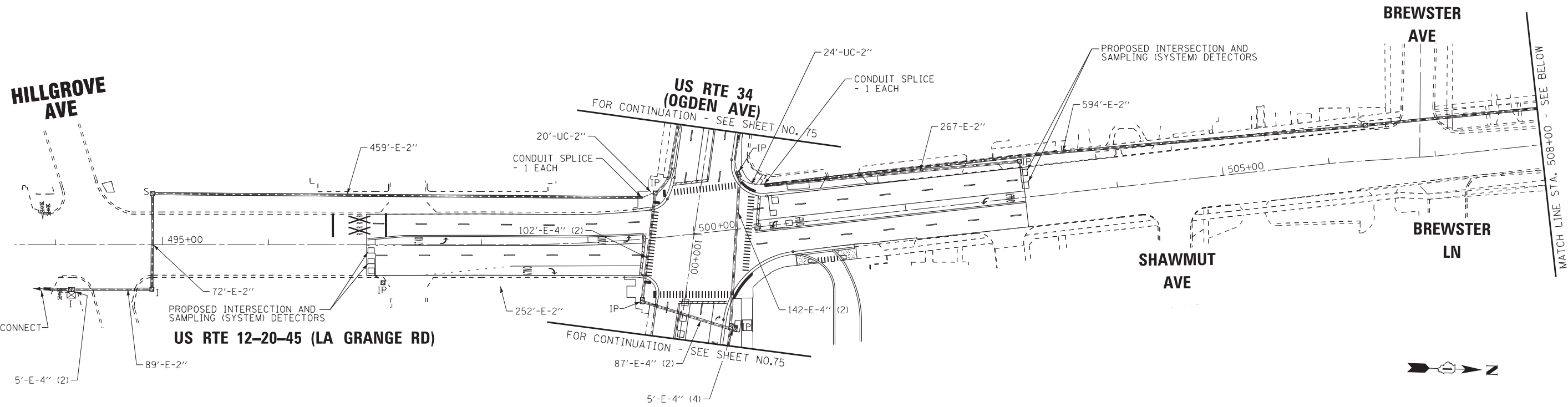
**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

**INTERCONNECT PLAN (SHEET 1 OF 2)**  
**US RTE 34 (OGDEN AVE) -**  
**KENSINGTON AVE TO LOCUST AVE**

SCALE: 1"=50'    SHEET    OF    SHEETS    STA.    TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
330	91Y-N-2	COOK	128	75
FED. ROAD DIST. NO.			ILLINOIS FED. AID PROJECT C-91-138-12	
			CONTRACT NO. 62A47	

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STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

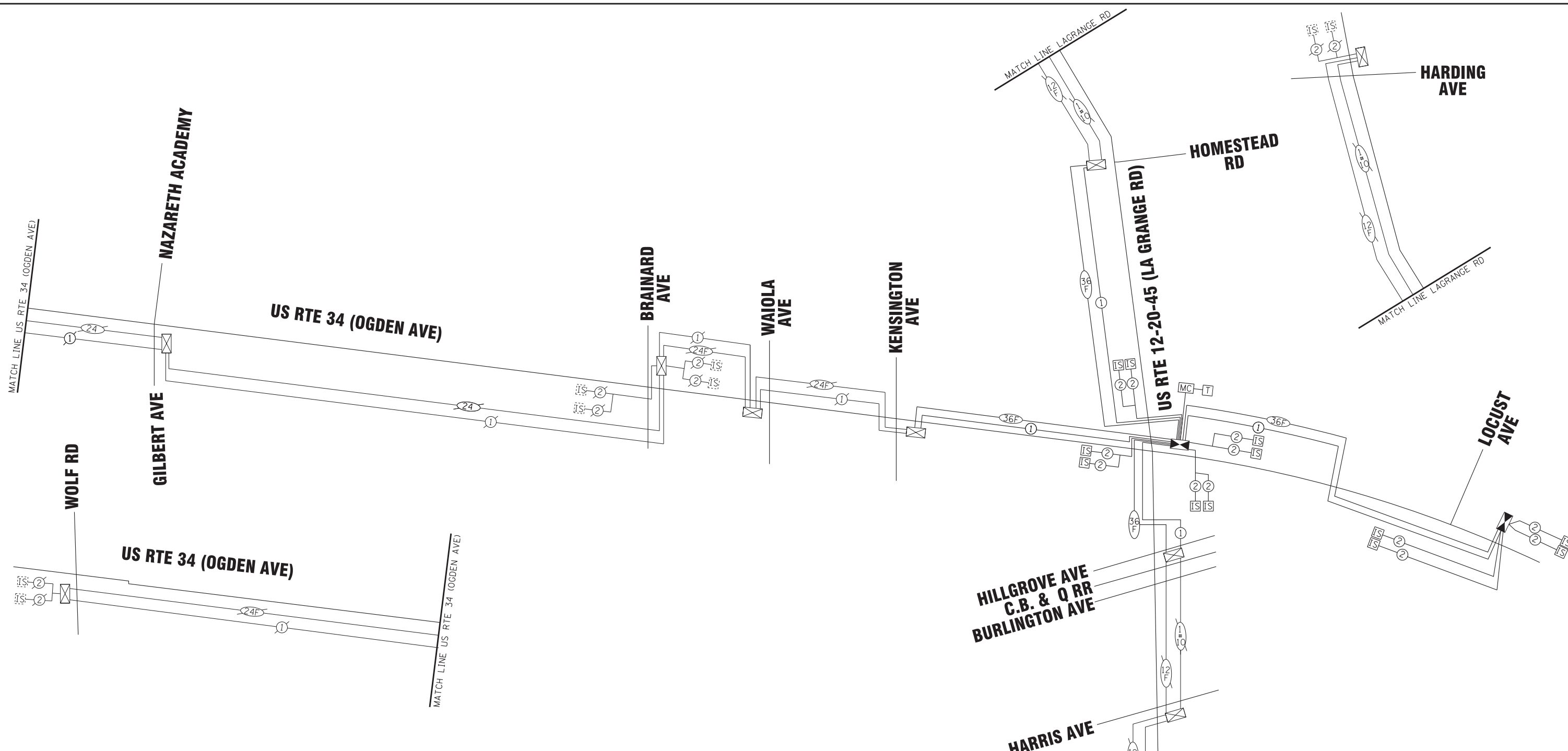
INTERCONNECT PLAN (SHEET 2 OF 2)  
US RTE 12-20-45 (LA GRANGE RD) -  
HILLGROVE AVE TO HOMESTEAD RD

SCALE: 1"=50'    SHEET    OF    SHEETS    STA.    TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
330	91Y-N-2	COOK	128	76
FED. ROAD DIST. NO.			ILLINOIS FED. AID PROJECT C-91-138-12	

EAGLE 5M

CONTRACT NO. 62A47



**SCHEDULE OF QUANTITIES**

ALL ITEMS 90% FEDERAL (HSIP), 10% STATE

ITEM DESCRIPTION	UNITS	TOTAL QTY.
UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA.	FOOT	159
MAINTAINANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	3
TRANSCIEVER - FIBER OPTIC	EACH	2
ELECTRIC CABLE IN CONDUIT, TRACER, NO. 14 1C	FOOT	5236
REMOVE ELECTRIC CABLE FROM CONDUIT	FOOT	3889
• ROD AND CLEAN EXISTING CONDUIT	FOOT	3540
CONDUIT SPLICE	EACH	3
MASTER CONTROLLER (SPECIAL)	EACH	1
FIBER OPTIC CABLE IN CONDUIT, NO. 62.5/125, MM12F SM24F	FOOT	5236
RE-OPTIMIZE TRAFFIC SIGNAL SYSTEM LEVEL 2	EACH	1

• NOMINAL QUANTITY TO BE USED AS NEEDED AS APPROVED BY THE ENGINEER.

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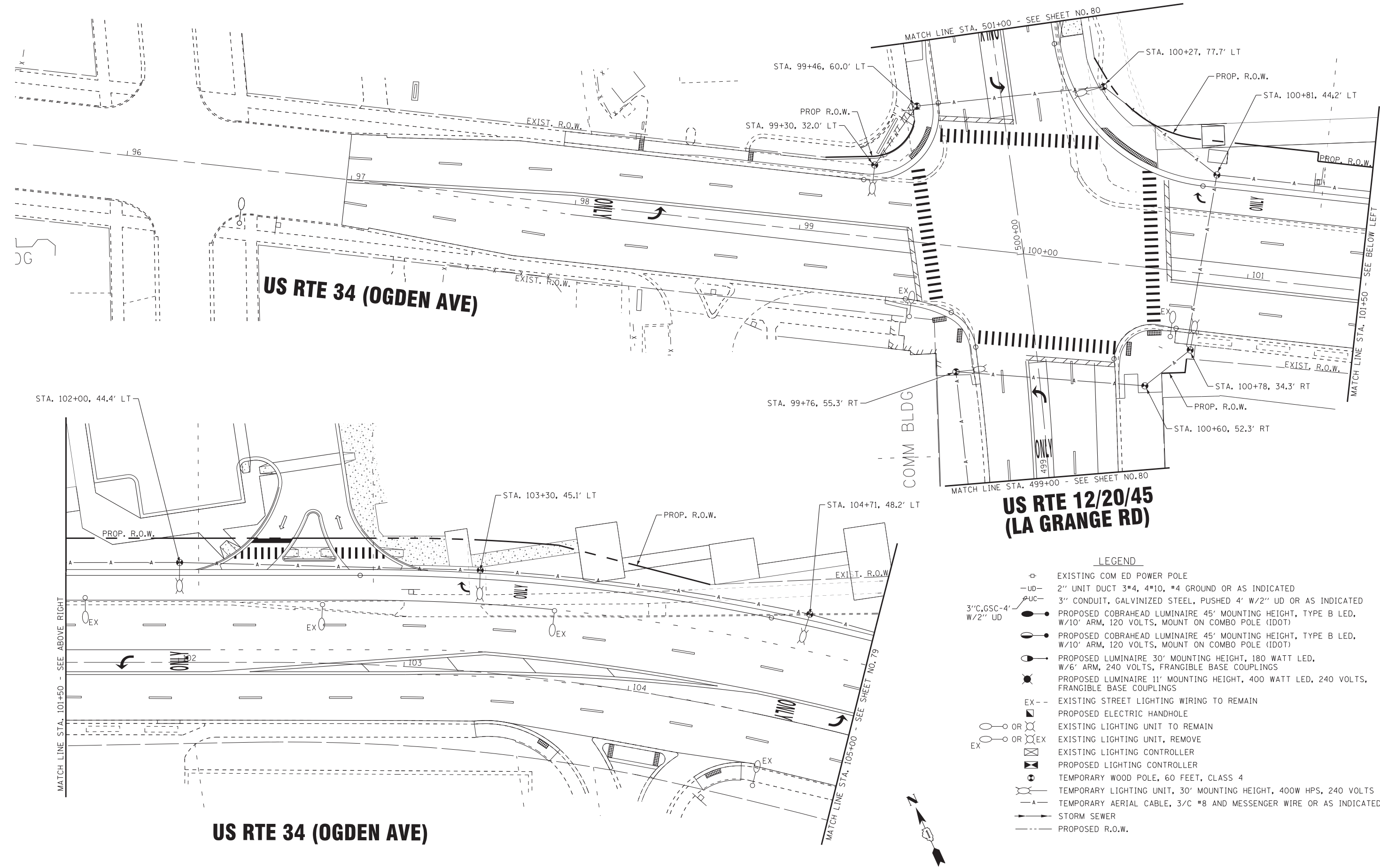
INTERCONNECT SCHEMATIC  
 US RTE 34 (OGDEN AVE) - WOLF RD TO LOCUST AVE  
 US RTE 12-20-45 (LA GRANGE RD) - COSSITT AVE TO HARDING AVE  
 SCALE: NONE SHEET OF SHEETS STA. TO STA.

F.A.P. RTE. 330	SECTION 91Y-N-2	COUNTY COOK	TOTAL SHEETS 128	SHEET NO. 77
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT C-91-138-12			CONTRACT NO. 62A47	

EAGLE 5M



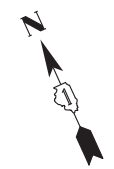




**US RTE 12/20/45  
(LA GRANGE RD)**

**LEGEND**

- ⊠ EXISTING COM ED POWER POLE
- UD- 2" UNIT DUCT 3#4, 4#10, #4 GROUND OR AS INDICATED
- UC- 3" CONDUIT, GALVANIZED STEEL, PUSHED 4" W/2" UD OR AS INDICATED
- PROPOSED COBRAHEAD LUMINAIRE 45' MOUNTING HEIGHT, TYPE B LED, W/10' ARM, 120 VOLTS, MOUNT ON COMBO POLE (IDOT)
- PROPOSED COBRAHEAD LUMINAIRE 45' MOUNTING HEIGHT, TYPE B LED, W/10' ARM, 120 VOLTS, MOUNT ON COMBO POLE (IDOT)
- PROPOSED LUMINAIRE 30' MOUNTING HEIGHT, 180 WATT LED, W/6' ARM, 240 VOLTS, FRANGIBLE BASE COUPLINGS
- PROPOSED LUMINAIRE 11' MOUNTING HEIGHT, 400 WATT LED, 240 VOLTS, FRANGIBLE BASE COUPLINGS
- EX-- EXISTING STREET LIGHTING WIRING TO REMAIN
- PROPOSED ELECTRIC HANDHOLE
- OR ○ EX EXISTING LIGHTING UNIT TO REMAIN
- OR ○ EX EXISTING LIGHTING UNIT, REMOVE
- EXISTING LIGHTING CONTROLLER
- PROPOSED LIGHTING CONTROLLER
- TEMPORARY WOOD POLE, 60 FEET, CLASS 4
- TEMPORARY LIGHTING UNIT, 30' MOUNTING HEIGHT, 400W HPS, 240 VOLTS
- A- TEMPORARY AERIAL CABLE, 3/C #8 AND MESSENGER WIRE OR AS INDICATED
- STORM SEWER
- - - PROPOSED R.O.W.



**US RTE 34 (OGDEN AVE)**

**US RTE 34 (OGDEN AVE)**

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DRAWN - UKB	REVISED -
CHECKED - MWH	REVISED -
DATE - 11-02-16	FILE - DI62A47-sht-Light-Temp-Plan1.dgn

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**TEMPORARY LIGHTING PLAN  
US RTE 34 (OGDEN AVE) AND US RTE 12/20/45 (LA GRANGE RD)**

SCALE: 1"=20'

STA. 95+50 TO STA. 105+00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
330	91Y-N-2	COOK	128	78
CONTRACT NO. 62A47				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT C-91-138-12				

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SL SHIT NO. 2



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CHECKED - MWH	REVISED -
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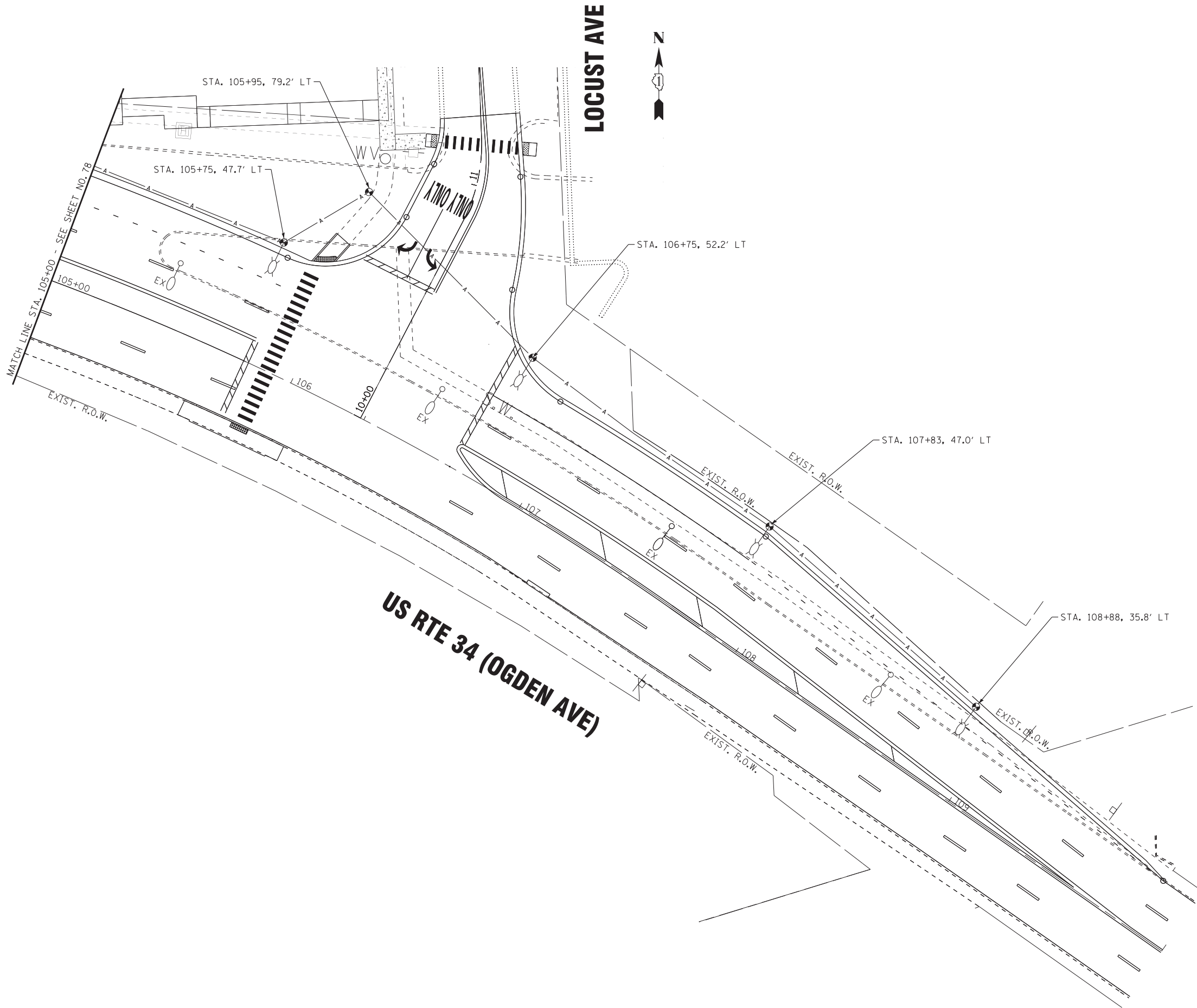
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

TEMPORARY LIGHTING PLAN  
US RTE 34 (OGDEN AVE) AND US RTE 1220/45 (LA GRANGE RD)

SCALE: 1"=20'

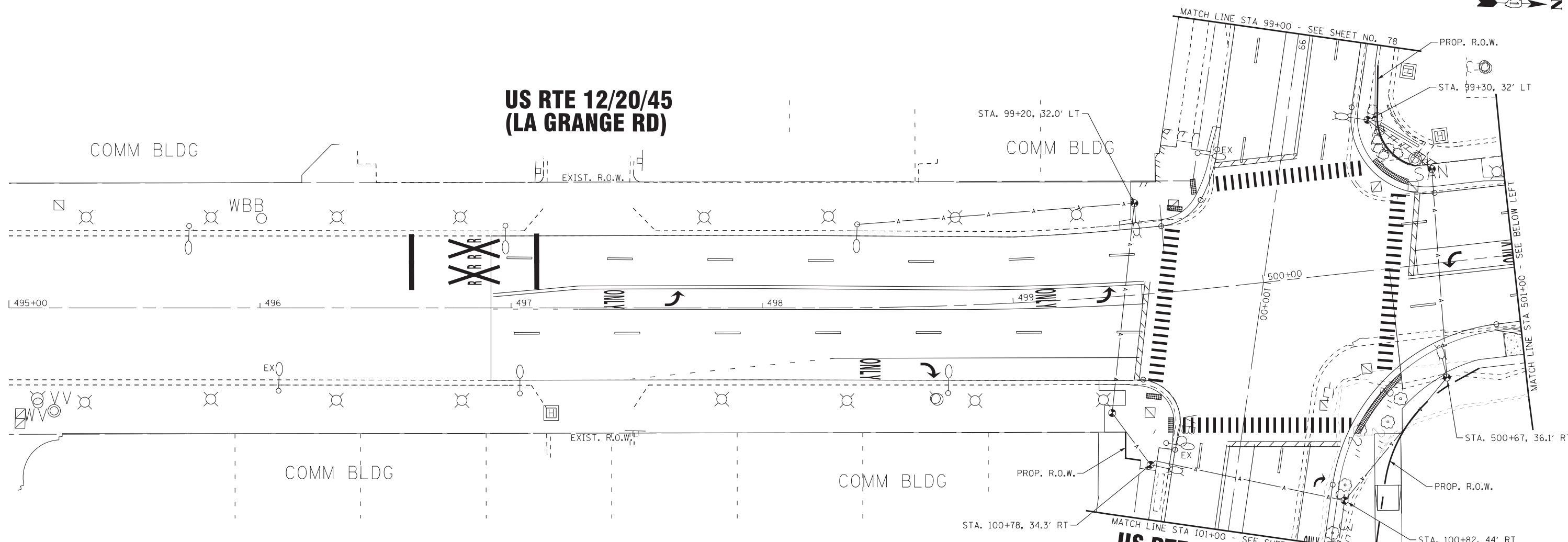
STA.105+00 TO STA.110+00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
330	91Y-N-2	COOK	128	79
CONTRACT NO. 62A47				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT C-91-138-12				

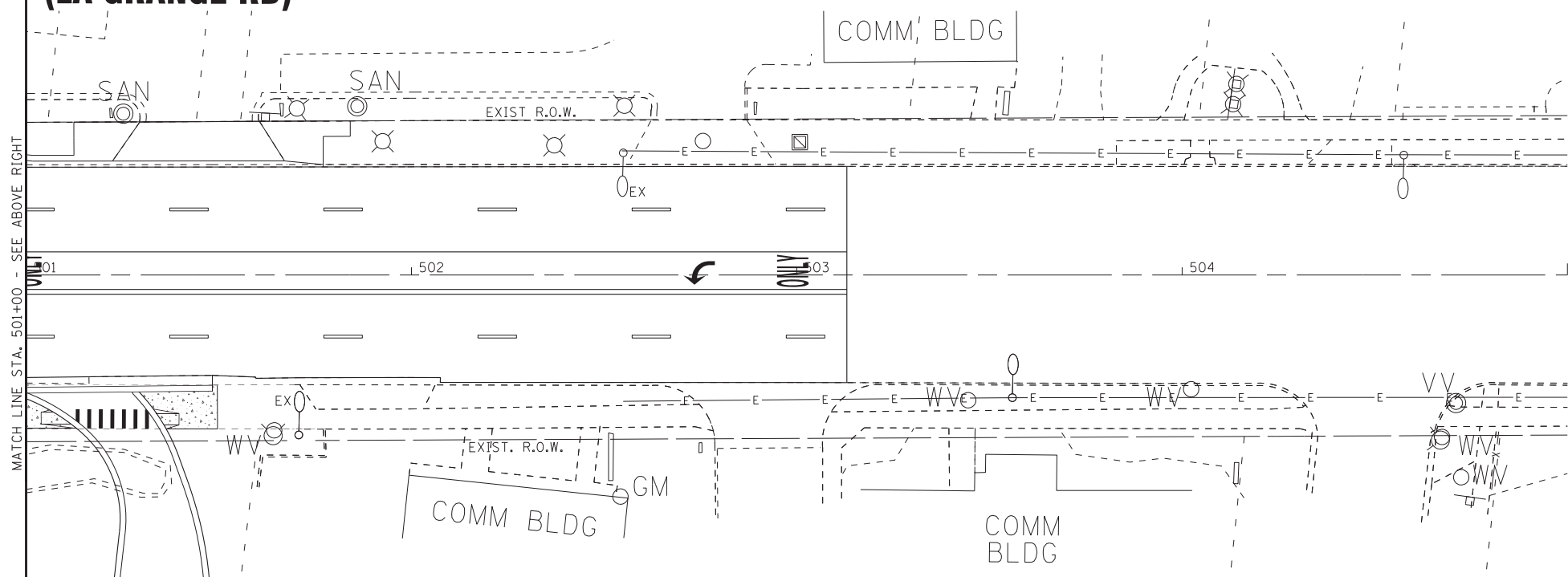




# US RTE 12/20/45 (LA GRANGE RD)



# US RTE 12/20/45 (LA GRANGE RD)



# US RTE 34 (OGDEN AVE)

- NOTE:
- EXISTING LIGHTING ON NORTH LEG OF LA GRANGE RD TO REMAIN IN SERVICE UNTIL PROPOSED LIGHTING ON LA GRANGE RD IS OPERATIONAL.
  - TEMPORARY LIGHTING IS TO BE POWERED FROM EXISTING LIGHTING CIRCUIT. EXISTING LIGHTING CONTROLLER IS ON HILLGROVE AVENUE APPROXIMATELY 200' EAST OF LA GRANGE ROAD. CONTROLLER TO REMAIN.



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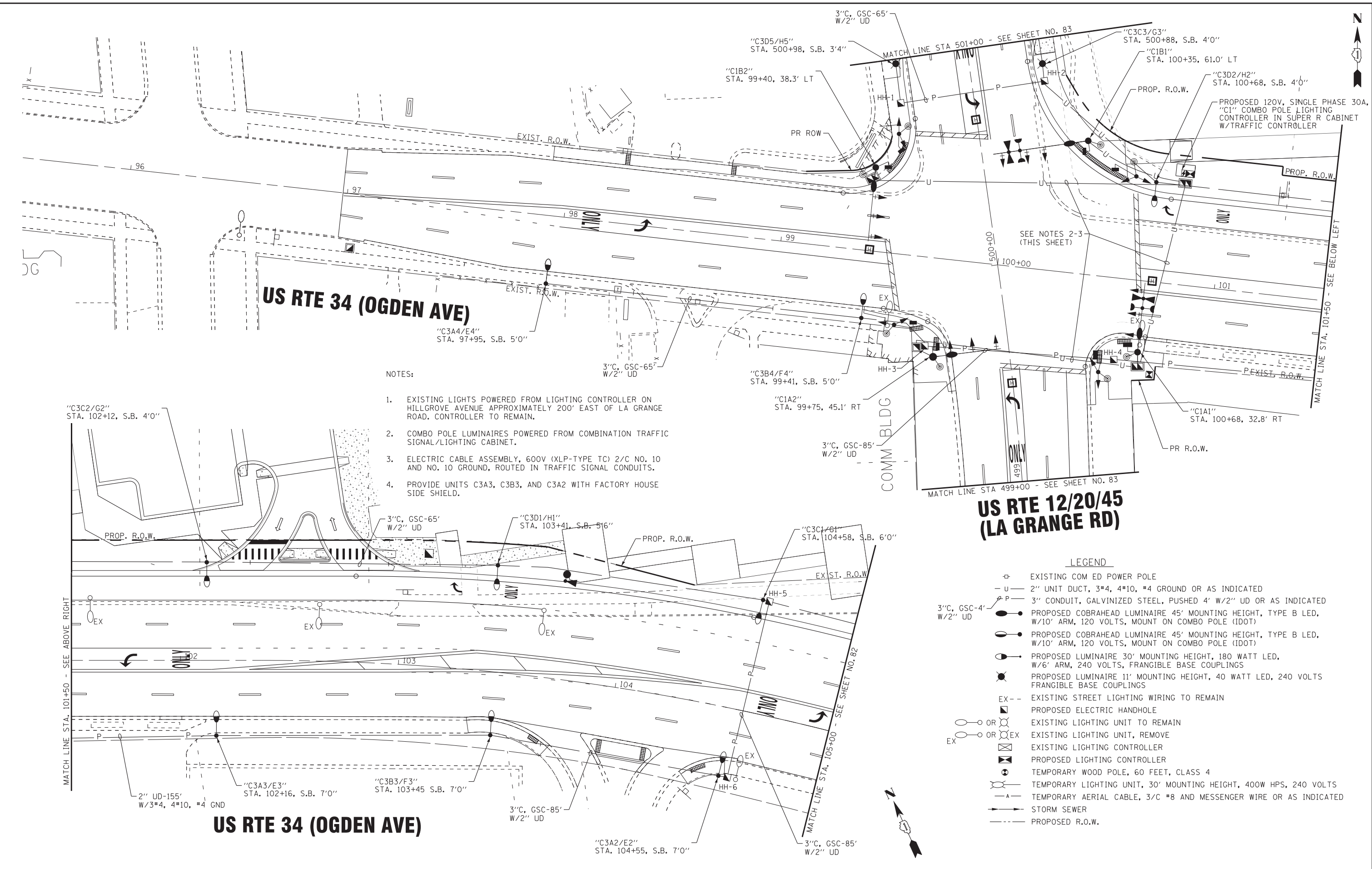
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DRAWN - LUMER	REVISED -
CHECKED - MWH	REVISED -
DATE - 11-02-16	FILE - DI62A47-sht-Light-Temp-Plan3.dgn

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

TEMPORARY LIGHTING PLAN  
US RTE 12/20/45 (LA GRANGE RD) AND US RTE 34 (OGDEN AVE)  
SCALE: 1"=20' STA. 105+00 TO STA. 505+00

F.A.P. RTE. 330 311	SECTION 91Y-N-2	COUNTY COOK	TOTAL SHEETS 128	SHEET NO. 80
CONTRACT NO. 62A47				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT C-91-138-12				





- NOTES:
- EXISTING LIGHTS POWERED FROM LIGHTING CONTROLLER ON HILGROVE AVENUE APPROXIMATELY 200' EAST OF LA GRANGE ROAD. CONTROLLER TO REMAIN.
  - COMBO POLE LUMINAIRES POWERED FROM COMBINATION TRAFFIC SIGNAL/LIGHTING CABINET.
  - ELECTRIC CABLE ASSEMBLY, 600V (XLP-TYPE TC) 2/C NO. 10 AND NO. 10 GROUND, ROUTED IN TRAFFIC SIGNAL CONDUITS.
  - PROVIDE UNITS C3A3, C3B3, AND C3A2 WITH FACTORY HOUSE SIDE SHIELD.

**US RTE 12/20/45  
(LA GRANGE RD)**

- LEGEND**
- EXISTING COM ED POWER POLE
  - U - 2" UNIT DUCT, 3#4, 4#10, #4 GROUND OR AS INDICATED
  - P - 3" CONDUIT, GALVINIZED STEEL, PUSHED 4' W/2" UD OR AS INDICATED
  - PROPOSED COBRAHEAD LUMINAIRE 45' MOUNTING HEIGHT, TYPE B LED, W/10' ARM, 120 VOLTS, MOUNT ON COMBO POLE (IDOT)
  - PROPOSED COBRAHEAD LUMINAIRE 45' MOUNTING HEIGHT, TYPE B LED, W/10' ARM, 120 VOLTS, MOUNT ON COMBO POLE (IDOT)
  - PROPOSED LUMINAIRE 30' MOUNTING HEIGHT, 180 WATT LED, W/6' ARM, 240 VOLTS, FRANGIBLE BASE COUPLINGS
  - PROPOSED LUMINAIRE 11' MOUNTING HEIGHT, 40 WATT LED, 240 VOLTS FRANGIBLE BASE COUPLINGS
  - EX -- EXISTING STREET LIGHTING WIRING TO REMAIN
  - PROPOSED ELECTRIC HANDHOLE
  - OR ○ EX EXISTING LIGHTING UNIT TO REMAIN
  - OR ○ EX EXISTING LIGHTING UNIT, REMOVE
  - EXISTING LIGHTING CONTROLLER
  - PROPOSED LIGHTING CONTROLLER
  - TEMPORARY WOOD POLE, 60 FEET, CLASS 4
  - TEMPORARY LIGHTING UNIT, 30' MOUNTING HEIGHT, 400W HPS, 240 VOLTS
  - A - TEMPORARY AERIAL CABLE, 3/C #8 AND MESSENGER WIRE OR AS INDICATED
  - S - STORM SEWER
  - - - PROPOSED R.O.W.

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DESIGNED - MWH	REVISED -
DRAWN - UKB	REVISED -
CHECKED - MWH	REVISED -
DATE - 11-02-16	FILE - D162447-sht-Light-Plan1.dgn

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**STREET LIGHTING PLAN  
US RTE 34 (OGDEN AVE) AND US RTE 12/20/45 (LA GRANGE RD)**

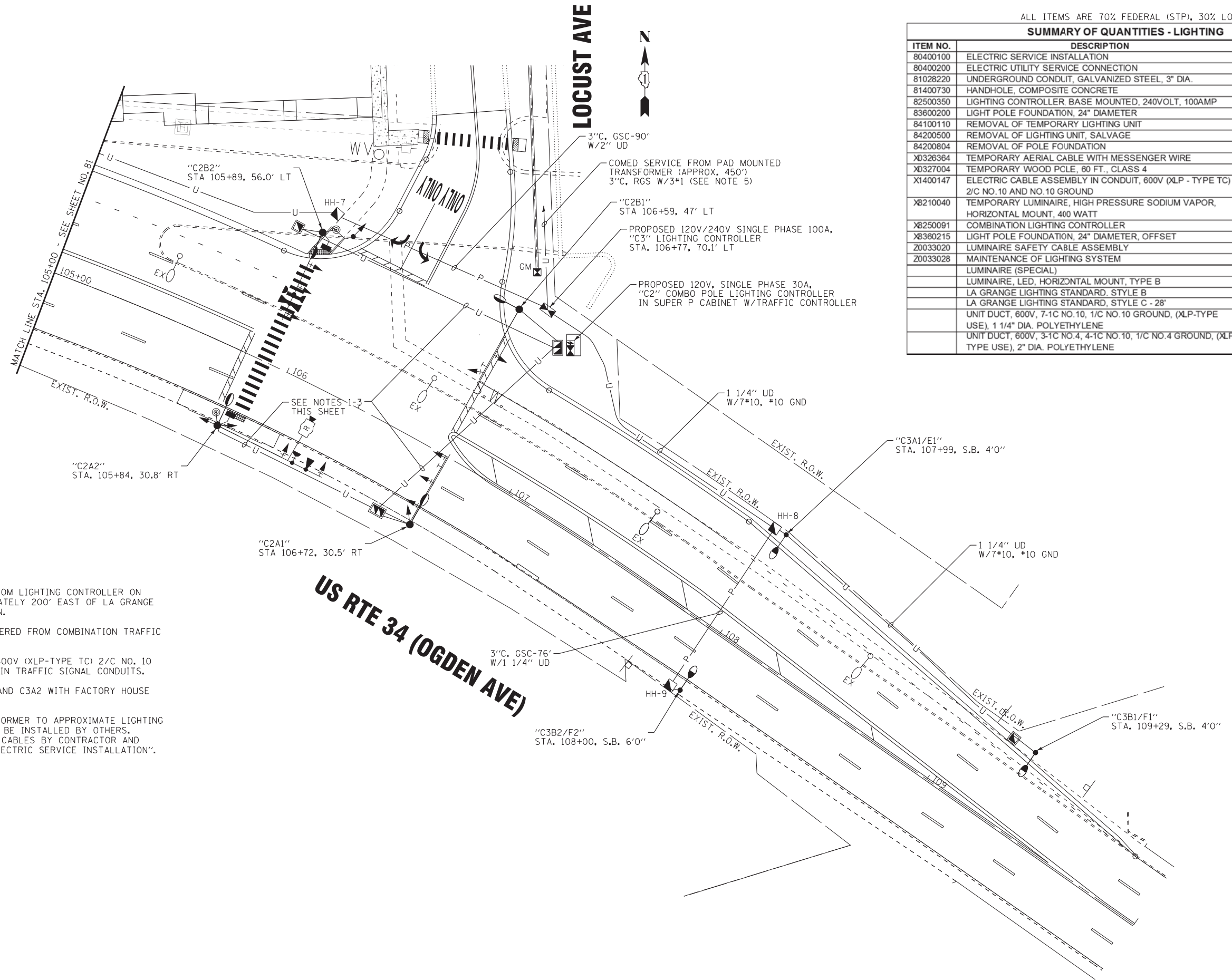
SCALE: 1"=20'

STA. 95+50 TO STA. 105+00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
330	91Y-N-2	COOK	128	81
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT C-91-138-12			CONTRACT NO. 62A47	

ALL ITEMS ARE 70% FEDERAL (STP), 30% LOCAL

SUMMARY OF QUANTITIES - LIGHTING			
ITEM NO.	DESCRIPTION	UNIT	QUANTITY
80400100	ELECTRIC SERVICE INSTALLATION	EACH	1
80400200	ELECTRIC UTILITY SERVICE CONNECTION	L SUM	1
81028220	UNDERGROUND CONDUIT, GALVANIZED STEEL, 3" DIA.	FOOT	891
81400730	HANDHOLE, COMPOSITE CONCRETE	EACH	9
82500350	LIGHTING CONTROLLER, BASE MOUNTED, 240VOLT, 100AMP	EACH	1
83600200	LIGHT POLE FOUNDATION, 24" DIAMETER	FOOT	122
84100110	REMOVAL OF TEMPORARY LIGHTING UNIT	EACH	15
84200500	REMOVAL OF LIGHTING UNIT, SALVAGE	EACH	12
84200804	REMOVAL OF POLE FOUNDATION	EACH	12
X0326364	TEMPORARY AERIAL CABLE WITH MESSENGER WIRE	EACH	1334
X0327004	TEMPORARY WOOD PCLE, 60 FT., CLASS 4	EACH	15
X1400147	ELECTRIC CABLE ASSEMBLY IN CONDUIT, 600V (XLP - TYPE TC) 2/C NO. 10 AND NO. 10 GROUND	FOOT	1113
X8210040	TEMPORARY LUMINAIRE, HIGH PRESSURE SODIUM VAPOR, HORIZONTAL MOUNT, 400 WATT	EACH	11
X8250091	COMBINATION LIGHTING CONTROLLER	EACH	2
X8360215	LIGHT POLE FOUNDATION, 24" DIAMETER, OFFSET	FOOT	42
Z0033020	LUMINAIRE SAFETY CABLE ASSEMBLY	EACH	24
Z0033028	MAINTENANCE OF LIGHTING SYSTEM	CAL MO	12
	LUMINAIRE (SPECIAL)	EACH	2
	LUMINAIRE, LED, HORIZONTAL MOUNT, TYPE B	EACH	8
	LA GRANGE LIGHTING STANDARD, STYLE B	EACH	3
	LA GRANGE LIGHTING STANDARD, STYLE C - 28'	EACH	16
	UNIT DUCT, 600V, 7-1C NO.10, 1/C NO.10 GROUND, (XLP-TYPE USE), 1 1/4" DIA. POLYETHYLENE	FOOT	355
	UNIT DUCT, 600V, 3-1C NO.4, 4-1C NO.10, 1/C NO.4 GROUND, (XLP-TYPE USE), 2" DIA. POLYETHYLENE	FOOT	1860



NOTES:

- EXISTING LIGHTS POWERED FROM LIGHTING CONTROLLER ON HILLGROVE AVENUE APPROXIMATELY 200' EAST OF LA GRANGE ROAD. CONTROLLER TO REMAIN.
- COMBO POLE LUMINAIRES POWERED FROM COMBINATION TRAFFIC SIGNAL/LIGHTING CABINET.
- ELECTRIC CABLE ASSEMBLY, 600V (XLP-TYPE TC) 2/C NO. 10 AND NO. 10 GROUND, ROUTED IN TRAFFIC SIGNAL CONDUITS.
- PROVIDE UNITS C3A3, C3B3, AND C3A2 WITH FACTORY HOUSE SIDE SHIELD.
- CONDUIT FROM COMED TRANSFORMER TO APPROXIMATE LIGHTING CONTROLLER LOCATION SHALL BE INSTALLED BY OTHERS. REMAINING CONDUIT AND ALL CABLES BY CONTRACTOR AND INCIDENTAL TO PAY ITEM "ELECTRIC SERVICE INSTALLATION".

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<b>BAXTER &amp; WOODMAN</b> Consulting Engineers	
DESIGNED - MWH	REVISED - PER IDOT 11-10-16
DRAWN - UKB	REVISED -
CHECKED - MWH	REVISED -
DATE - 11-02-16	FILE - D162447-sht-Light-Plan2.dgn

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

STREET LIGHTING PLAN  
US RTE 34 (OGDEN AVE) AND US RTE 12/20/45 (LA GRANGE RD)

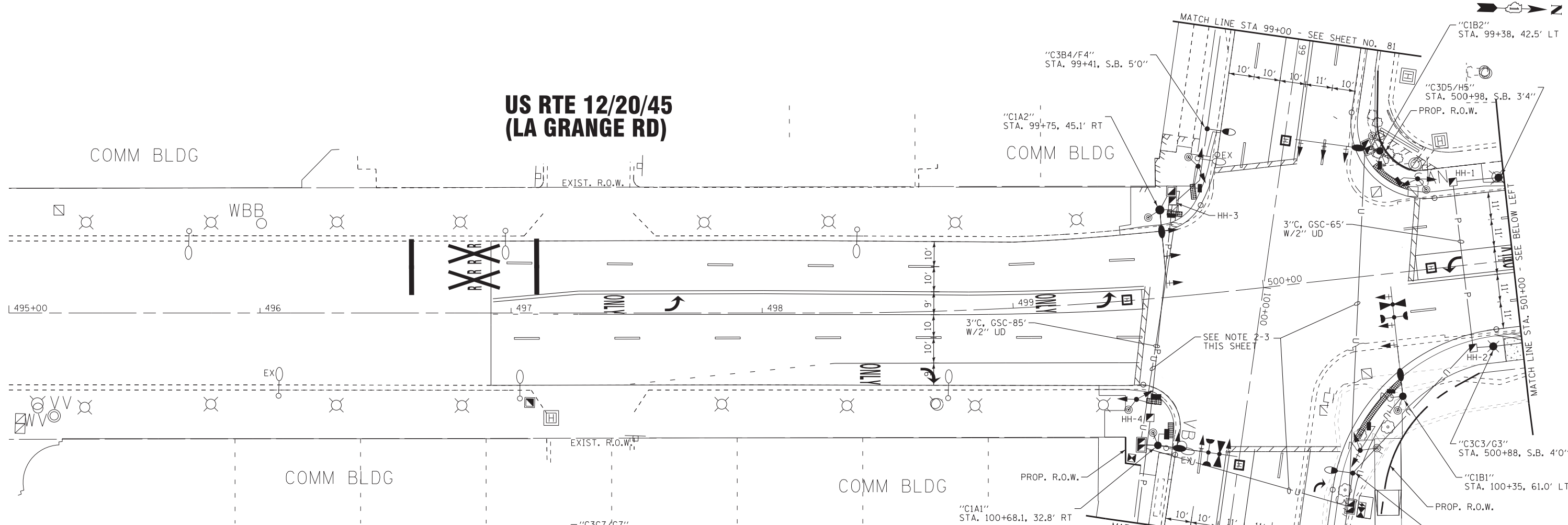
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STA.105+00 TO STA.110+00

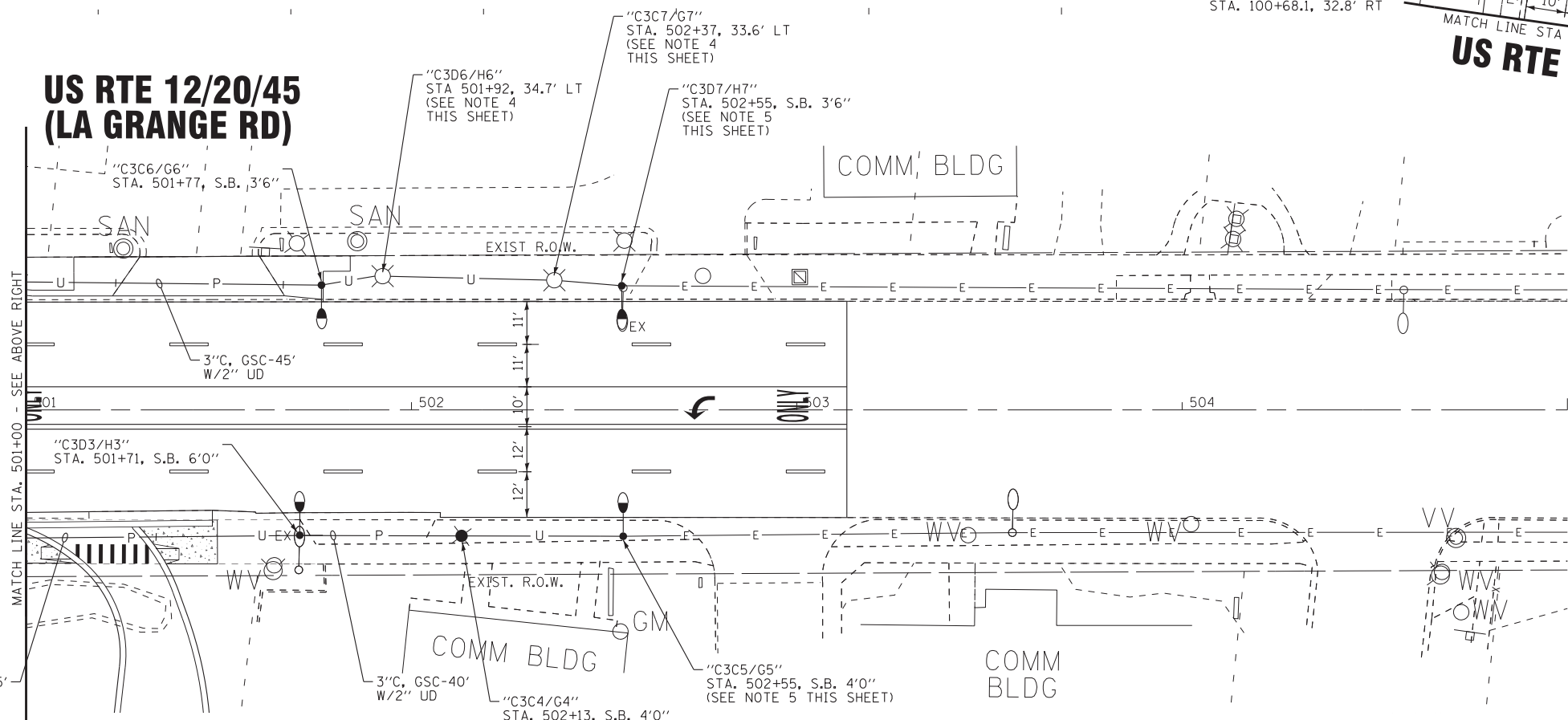
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
330	91Y-N-2	COOK	128	82
CONTRACT NO. 62A47				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT C-91-138-12				



**US RTE 12/20/45  
(LA GRANGE RD)**



**US RTE 12/20/45  
(LA GRANGE RD)**



**US RTE 34 (OGDEN AVE)**

- NOTES:
- EXISTING LIGHTS POWERED FROM LIGHTING CONTROLLER ON HILLGROVE AVENUE APPROXIMATELY 200' EAST OF LA GRANGE ROAD. CONTROLLER TO REMAIN.
  - COMBO POLE LUMINAIRES POWERED FROM COMBINATION TRAFFIC SIGNAL/LIGHTING CABINET.
  - ELECTRIC CABLE ASSEMBLY, 600V (XLP-TYPE TC) 2/C NO. 10 AND NO. 10 GROUND, ROUTED IN TRAFFIC SIGNAL CONDUITS.
  - REPLACE EXISTING LUMINAIRE WITH NEW LED LUMINAIRE. NEW LUMINAIRE TO BE SAME AS SPECIFIED FOR "STYLE B" LIGHTING STANDARD.
  - CONNECT REMAINING EXISTING LIGHTING SYSTEM FROM NORTH ON LA GRANGE RD TO PROPOSED LIGHTING SYSTEM.

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DESIGNED - MWH	REVISED -
DRAWN - UKB	REVISED -
CHECKED - MWH	REVISED -
DATE - 11-02-16	FILE - D162447-sht-Light-Plan3.dgn

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**STREET LIGHTING PLAN  
US RTE 12/20/45 (LA GRANGE RD) AND US RTE 34 (OGDEN AVE)**

SCALE: 1"=20'      STA. 105+00      TO STA. 505+00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
330 311	91Y-N-2	COOK	128	83
CONTRACT NO. 62A47				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT C-91-138-12				

**US RTE 12/20/45  
(LA GRANGE RD)**

**US RTE 34 (OGDEN AVE)**

**LOCUST AVE**



PROPOSED 120V, SINGLE PHASE 30A,  
"C1" COMBO POLE LIGHTING CONTROLLER  
IN SUPER R CABINET W/TRAFFIC CONTROLLER

COMED SERVICE FROM PAD MOUNTED  
TRANSFORMER (APPROX. 450')  
3" C, RGS W/3\*1

PROPOSED 120V/240V SINGLE PHASE 100A,  
"C3" LIGHTING CONTROLLER  
STA. 106+77, 70.1' LT

PROPOSED 120V, SINGLE PHASE 30A,  
"C2" COMBO POLE LIGHTING CONTROLLER  
IN SUPER P CABINET W/TRAFFIC CONTROLLER

**LEGEND**

- EXISTING COM ED POWER POLE
- U - 2" UNIT DUCT, 3\*4, 4\*10, #4 GROUND OR AS INDICATED
- P - 3" CONDUIT, GALVINIZED STEEL, PUSHED 4' W/2" UD OR AS INDICATED
- PROPOSED COBRAHEAD LUMINAIRE 45' MOUNTING HEIGHT, TYPE B LED, W/10' ARM, 120 VOLTS, MOUNT ON COMBO POLE (IDOT)
- PROPOSED COBRAHEAD LUMINAIRE 45' MOUNTING HEIGHT, TYPE B LED, W/10' ARM, 120 VOLTS, MOUNT ON COMBO POLE (IDOT)
- PROPOSED LUMINAIRE 30' MOUNTING HEIGHT, 180 WATT LED, W/6' ARM, 240 VOLTS, FRANGIBLE BASE COUPLINGS
- PROPOSED LUMINAIRE 11' MOUNTING HEIGHT, 40 WATT LED, 240 VOLTS, FRANGIBLE BASE COUPLINGS
- EX - - EXISTING STREET LIGHTING WIRING TO REMAIN
- PROPOSED ELECTRIC HANDHOLE
- OR ○ EX EXISTING LIGHTING UNIT TO REMAIN
- OR ○ EX EXISTING LIGHTING UNIT, REMOVE
- EXISTING LIGHTING CONTROLLER
- PROPOSED LIGHTING CONTROLLER
- TEMPORARY WOOD POLE, 60 FEET, CLASS 4
- TEMPORARY LIGHTING UNIT, 30' MOUNTING HEIGHT, 400W HPS, 240 VOLTS
- A - TEMPORARY AERIAL CABLE, 3/C #8 AND MESSENGER WIRE OR AS INDICATED
- STORM SEWER
- - - PROPOSED R.O.W.

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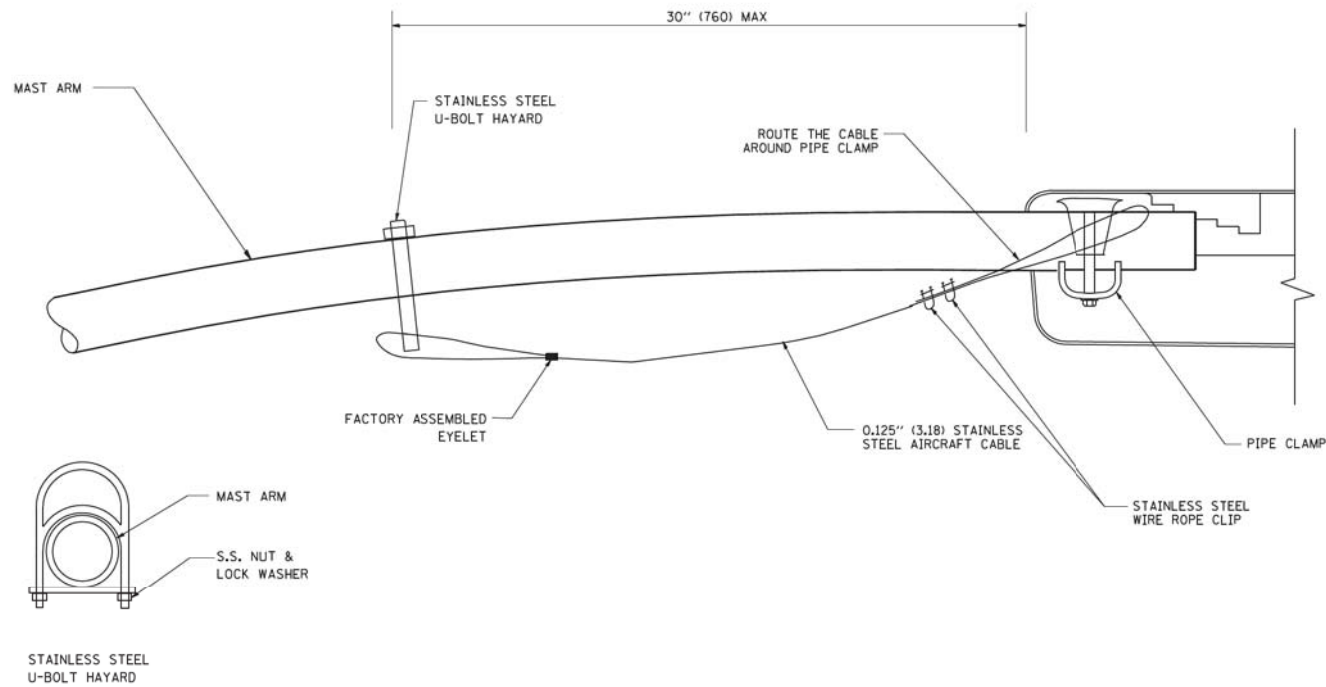
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**STREET LIGHTING - SINGLE LINE DIAGRAM  
US RTE 34 (OGDEN AVE) AND US RTE 12/20/45 (LA GRANGE RD)**

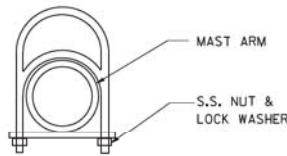
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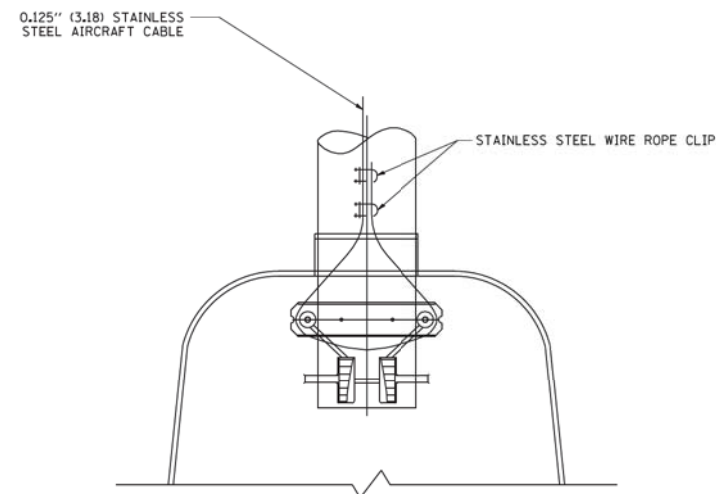
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330	91Y-N-2	COOK	128	84
CONTRACT NO. 62A47				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT C-91-138-12				



SIDE VIEW (SINGLE MEMBER OR DAVIT ARM)  
N.T.S.



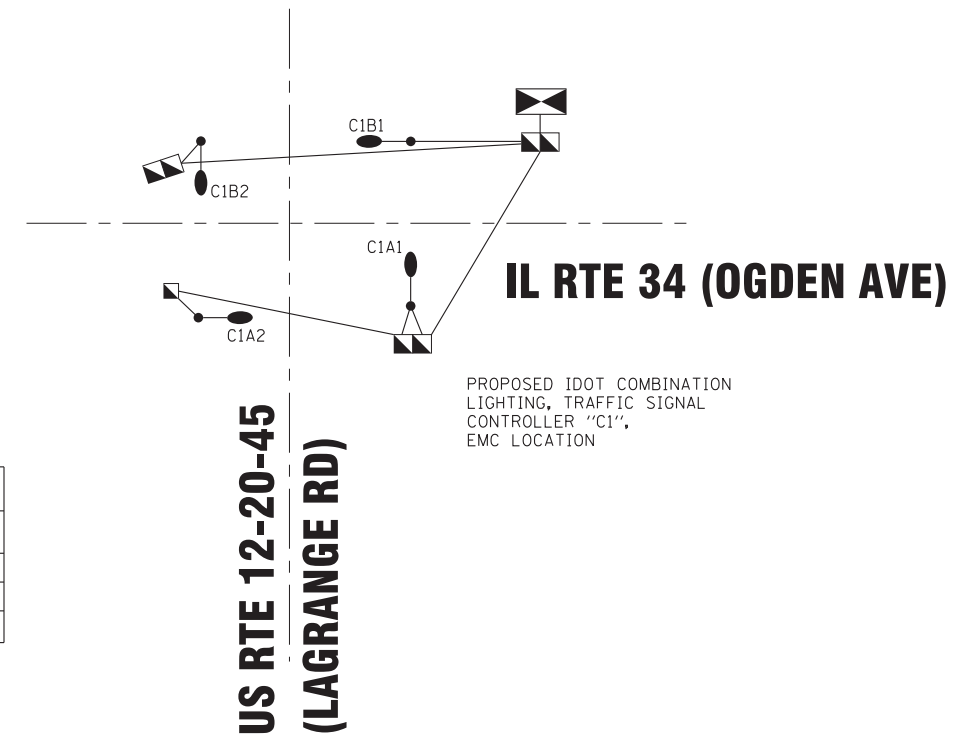
STAINLESS STEEL  
U-BOLT HAYARD



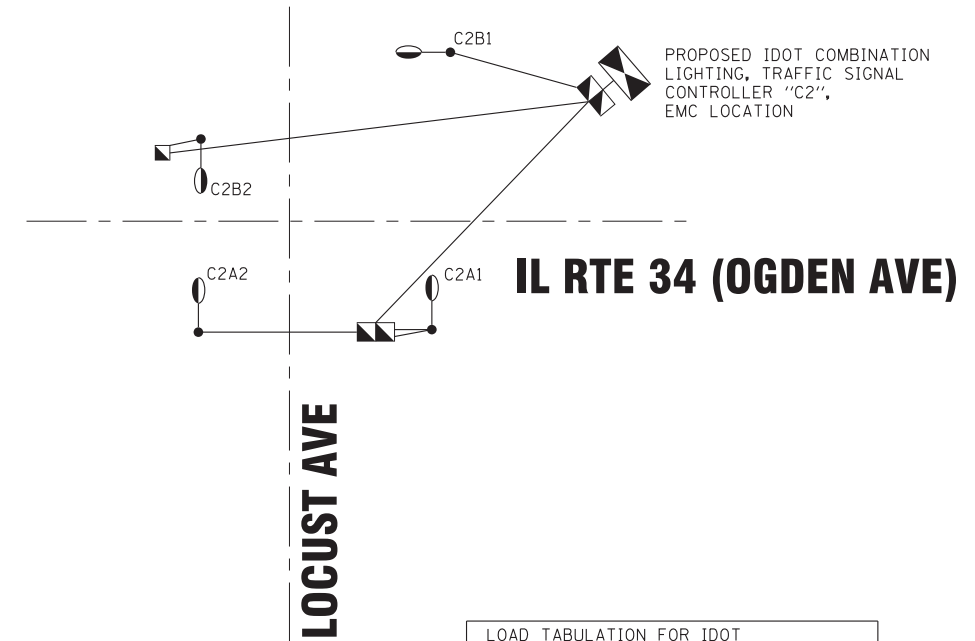
BOTTOM VIEW  
N.T.S.

LOAD TABULATION FOR IDOT COMBINATION LIGHTING CONTROLLER "C1"

CIRCUIT	220W	AMPS
A	(2) 2.0	4.0
B	(2) 2.0	4.0
TOTAL		8.0



PROPOSED IDOT COMBINATION LIGHTING, TRAFFIC SIGNAL CONTROLLER "C1", EMC LOCATION



PROPOSED IDOT COMBINATION LIGHTING, TRAFFIC SIGNAL CONTROLLER "C2", EMC LOCATION

LEGEND

- ⊕ EXISTING COM ED POWER POLE
- U - 2" UNIT DUCT, 3\*4, 4\*10, #4 GROUND OR AS INDICATED
- 3" P 3" CONDUIT, GALVINIZED STEEL, PUSHED 4' W/2" UD OR AS INDICATED
- PROPOSED COBRAHEAD LUMINAIRE 45' MOUNTING HEIGHT, TYPE B LED, W/10' ARM, 120 VOLTS, MOUNT ON COMBO POLE (IDOT)
- PROPOSED COBRAHEAD LUMINAIRE 45' MOUNTING HEIGHT, TYPE B LED, W/10' ARM, 120 VOLTS, MOUNT ON COMBO POLE (IDOT)
- PROPOSED LUMINAIRE 30' MOUNTING HEIGHT, 180 WATT LED, W/6' ARM, 240 VOLTS
- PROPOSED LUMINAIRE 11' MOUNTING HEIGHT, 40 WATT LED, 240 VOLTS
- EX - - EXISTING STREET LIGHTING WIRING TO REMAIN
- PROPOSED ELECTRIC HANDHOLE
- OR ○ EX EXISTING LIGHTING UNIT TO REMAIN
- OR ○ EX EXISTING LIGHTING UNIT, REMOVE
- ⊠ EXISTING LIGHTING CONTROLLER
- ⊠ PROPOSED LIGHTING CONTROLLER
- ⊙ TEMPORARY WOOD POLE, 60 FEET, CLASS 4
- TEMPORARY LIGHTING UNIT, 30' MOUNTING HEIGHT, 400W HPS, 240 VOLTS
- A - TEMPORARY AERIAL CABLE, 3/C #8 AND MESSENGER WIRE OR AS INDICATED
- STORM SEWER
- PROPOSED R.O.W.

NOTES:

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

LOAD TABULATION FOR IDOT COMBINATION LIGHTING CONTROLLER "C2"

CIRCUIT	183W	AMPS
A	(2) 1.7	3.4
B	(2) 1.7	3.4
TOTAL		6.8

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**BAXTER & WOODMAN**  
Consulting Engineers

DESIGNED - MWH	REVISED -
DRAWN - UKB	REVISED -
CHECKED -	REVISED -
DATE - 11-02-16	FILE - D162A47-sht-Light-Detail.dgn

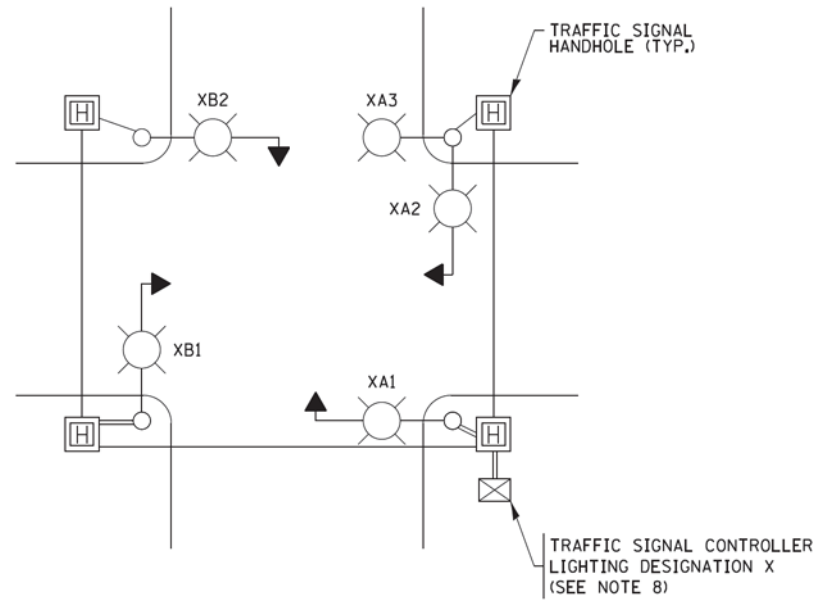
STATE OF ILLINOIS  
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STREET LIGHTING DETAILS  
AND SINGLE LINE DIAGRAM

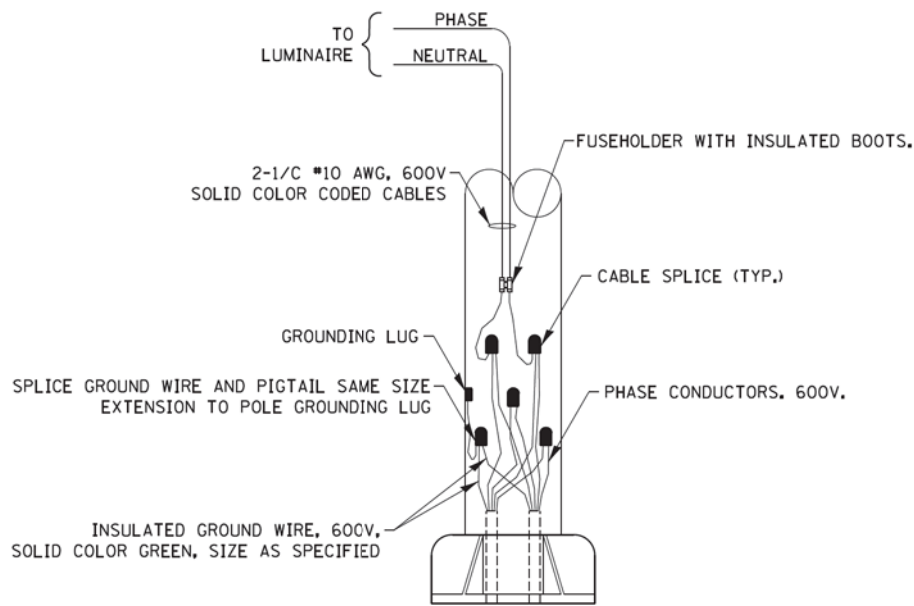
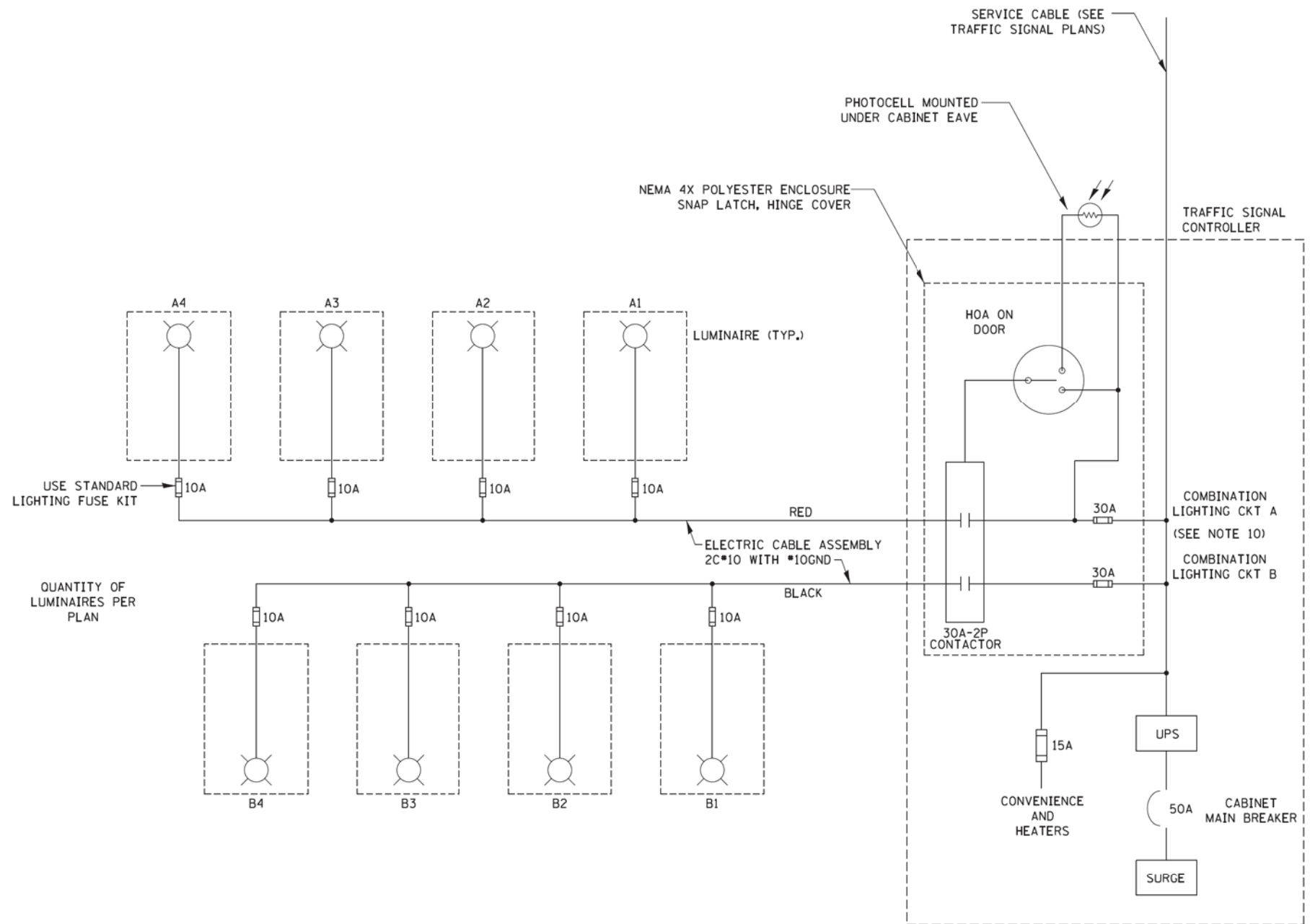
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STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
330	91Y-N-2	COOK	128	85
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT C-91-138-12			CONTRACT NO. 62A47	



**TYPICAL LIGHTING CIRCUIT DESIGNATIONS**  
(NOT TO SCALE)



**COMBINATION POLE WIRING DETAIL**  
(NOT TO SCALE)

**NOTES:**

- 4 LUMINAIRES PER CIRCUIT, MAXIMUM.
- MULTI-CONDUCTOR CABLE ASSEMBLY FOR LIGHTING CIRCUITS.
- ROUTE LIGHTING CIRCUITS IN TRAFFIC SIGNAL CONDUIT SYSTEM.
- ALL SPLICES AND CONNECTIONS FOR ROADWAY LIGHTING SHALL BE AT POLE BASE ONLY.
- ALL CONTROLLERS TO HAVE TWO FUSED LIGHTING BRANCH CIRCUITS.
- ALL WIRING SHALL BE NEATLY DRESSED, IDENTIFIED BY TAGS, AND SUPPORTED. (UNDERGROUND SPLICING OF LIGHTING CONDUCTORS IS NOT PERMITTED).
- LIGHTING CONTROLLER DESIGNATION SHALL BE CONFIRMED WITH THE ENGINEER.
- RECORD DRAWING SHALL INCLUDE:
  - TRAFFIC SIGNAL PLAN SHEET(S)
  - TRAFFIC SIGNAL CABLE PLAN SHEET(S)
  - LIGHTING PLANS
  - THIS DETAIL
- THE H.O.A. SWITCH SHALL BE LABELED AS "LIGHTING CONTROL" WITH THE POSITIONS "AUTO", "OFF" AND "TEST" WITH ENGRAVED NAME PLATES.
- LIGHTING CONNECTED TO UPS BYPASS CIRCUIT

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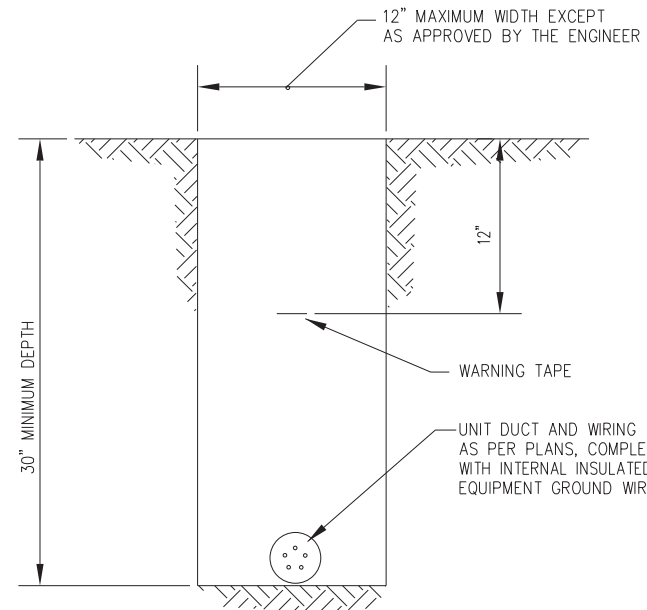
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COMBINATION LIGHTING, TRAFFIC SIGNAL SCHEMATIC

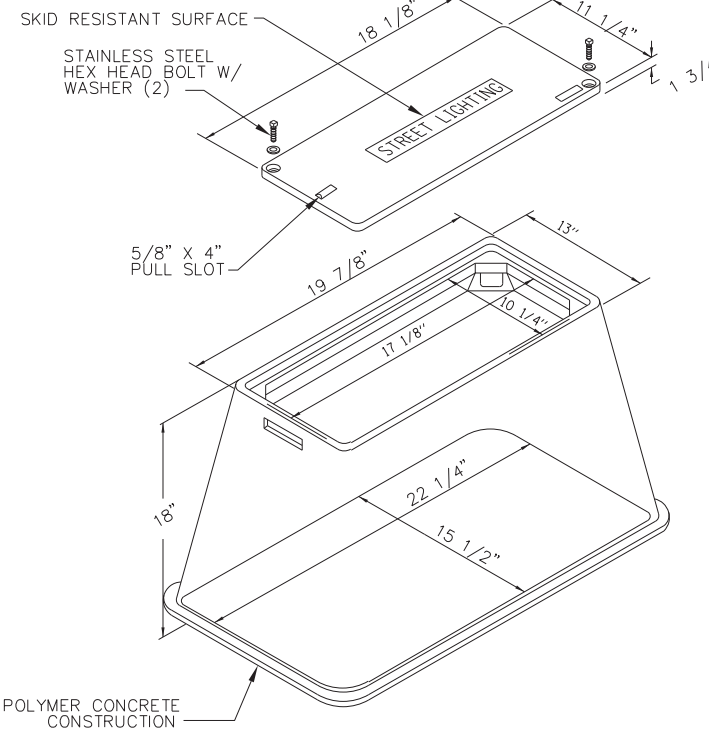
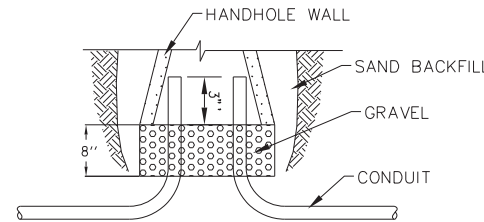
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F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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BE-240			CONTRACT NO. 62A47	
ILLINOIS FED. AID PROJECT-91-138-12				



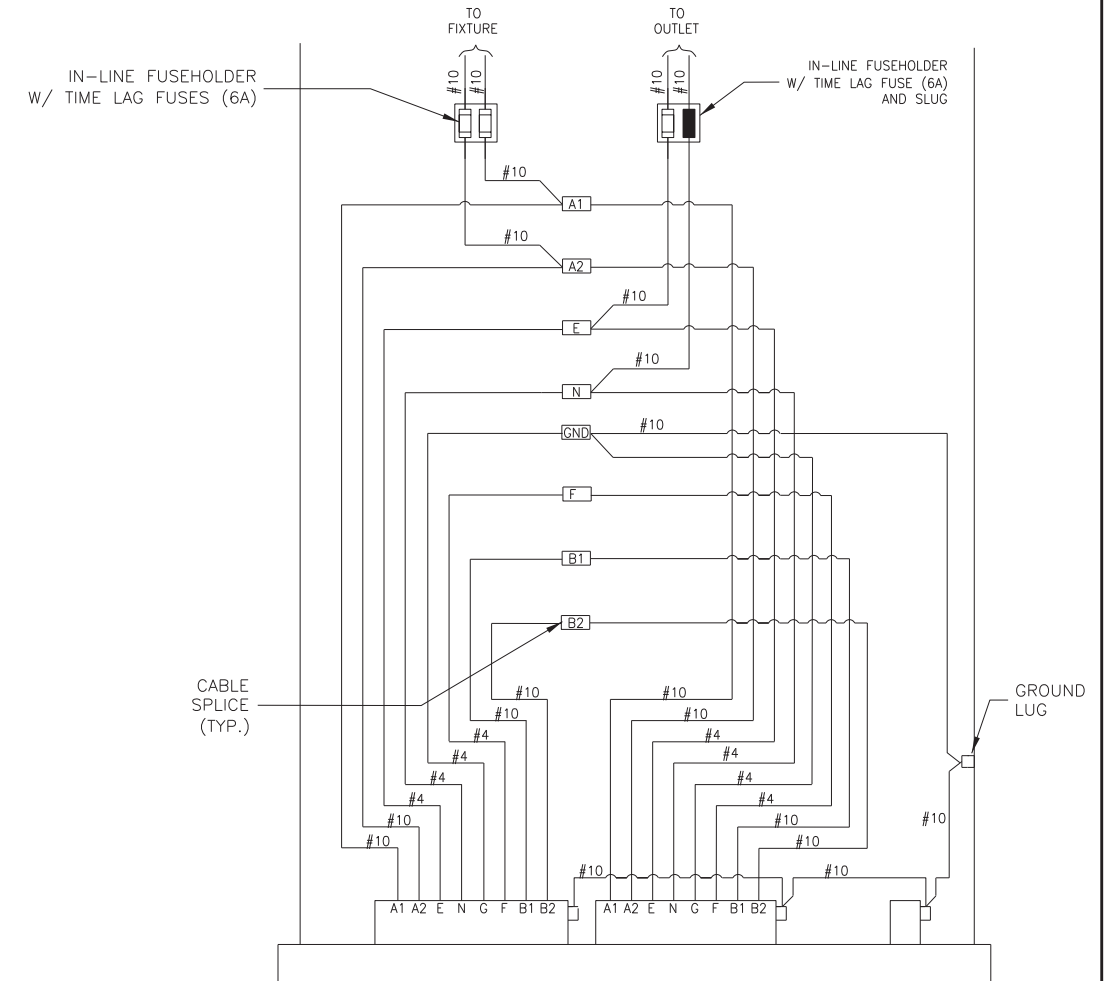
TYPICAL WIRING IN TRENCH DETAIL

NO SCALE



HANDHOLE, COMPOSITE CONCRETE

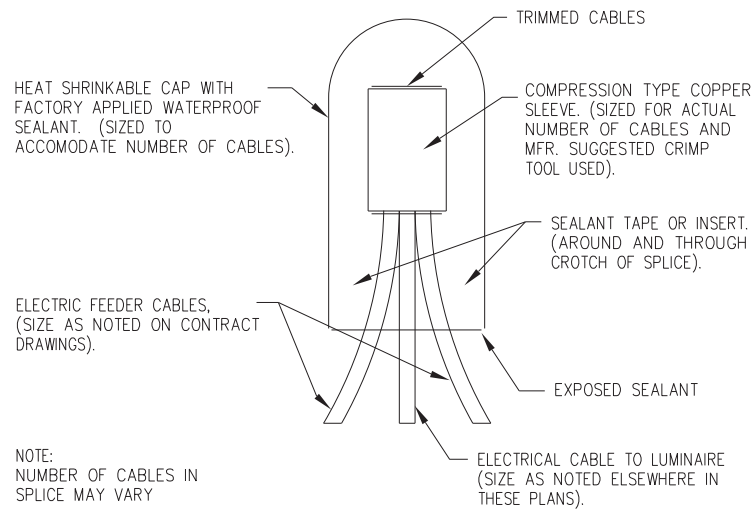
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POLE BASE WIRING DETAIL

NO SCALE

NOTE: ALTERNATE PHASE CIRCUITING OF FESTOONS AND LUMINAIRES AS SHOWN ON PLANS.



SPlicing ELECTRICAL Cables  
BASIC MATERIALS AND METHODS

NO SCALE

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DRAWN - UKB	REVISED -
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DEPARTMENT OF TRANSPORTATION

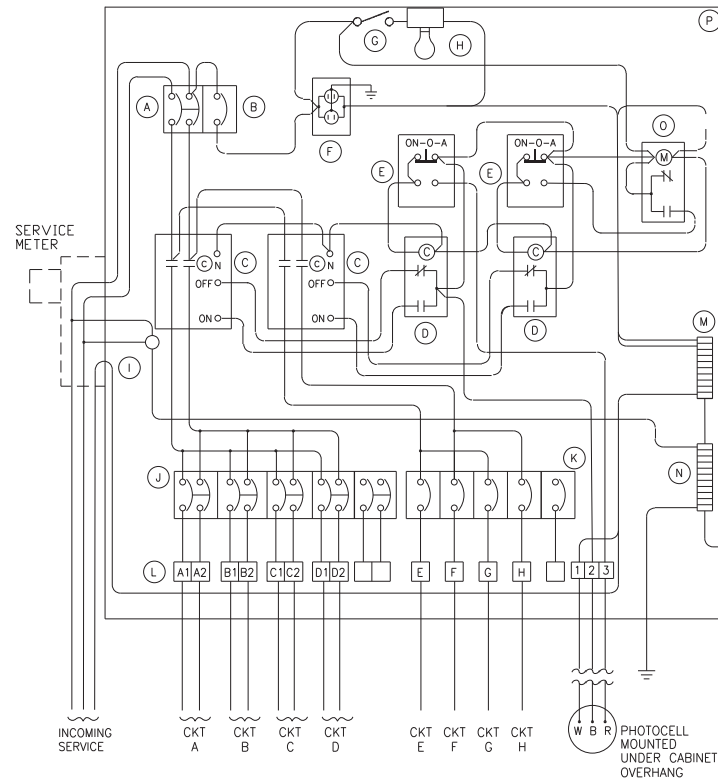
STREET LIGHTING DETAILS

SCALE: NONE

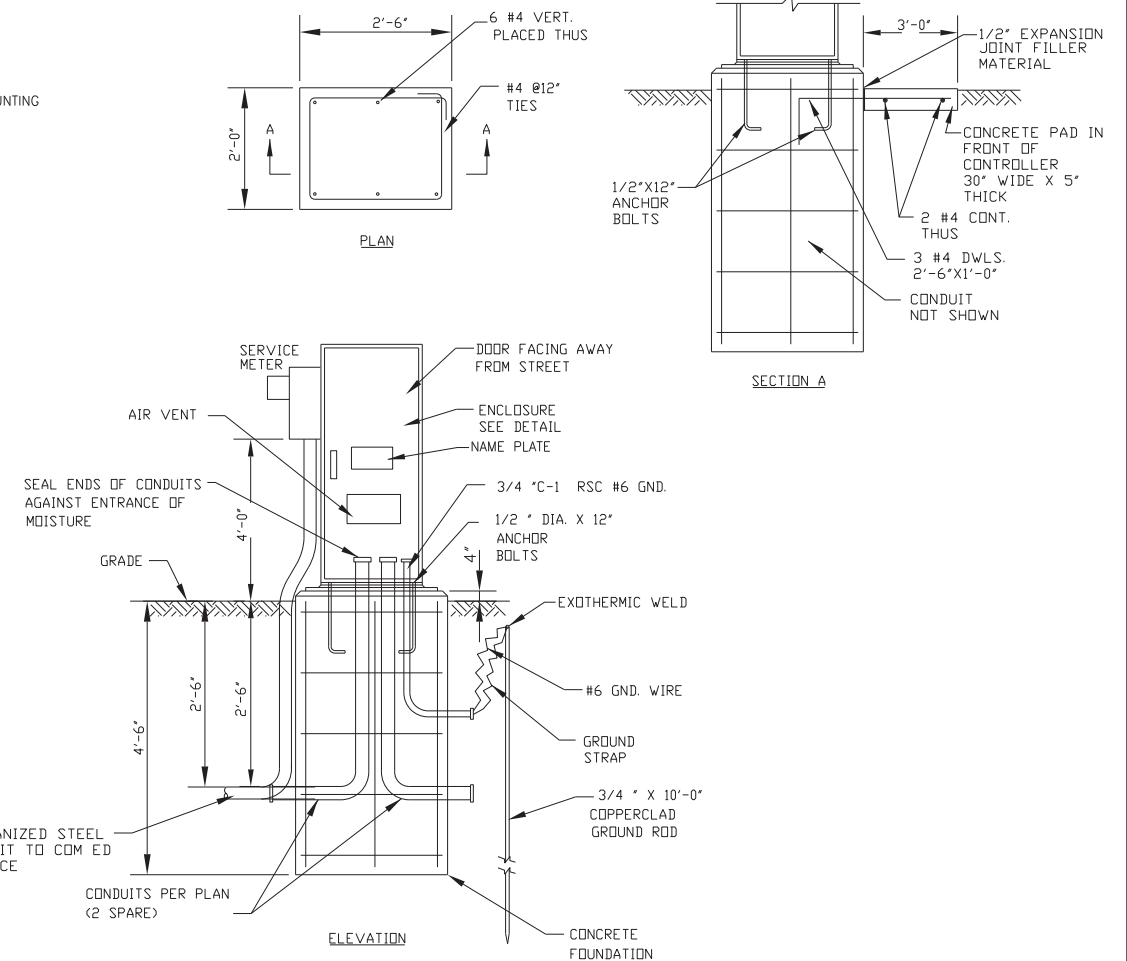
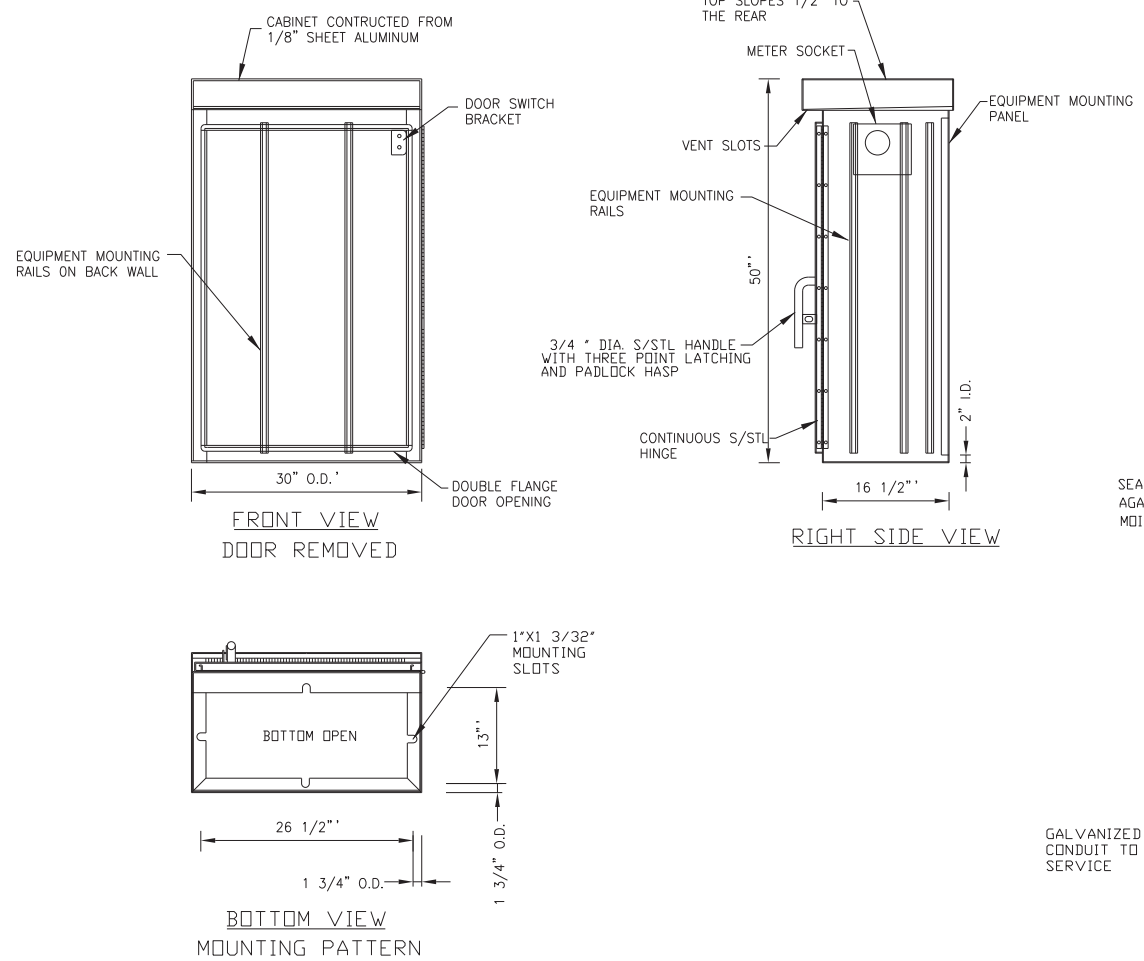
STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
330	91Y-N-2	COOK	128	87
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT C-91-138-12			CONTRACT NO. 62A47	





LIGHTING CONTROLLER WIRING DIAGRAM



LIGHTING CONTROLLER AND FOUNDATION DETAIL  
NO SCALE

NOTES

- CABINET SHALL BE FABRICATED FROM 0.125-INCH SHEET ALUMINUM #3003H14, FORMED AND ARC WELDED ASSEMBLY WITH NEMA 3R RATING.
- ALL SCREWS AND HARDWARE SHALL BE PLATED, GALVANIZED, OR MADE OF BRASS, ALUMINUM OR STAINLESS STEEL.
- NAME PLATE SHALL HAVE ENGRAVED 0.75-INCH HIGH LETTERS FILLED IN BLACK: "STREET LIGHTING".
- CABINET SHALL BE PRIMED AND PAINTED AS SPECIFIED.
- ELECTRIC UTILITY METER BOX SHALL BE MOUNTED ON THE SIDE OF CONTROL CABINET AS SHOWN ON THE PANEL LAYOUT DIAGRAM.
- THE COMPLETED CONTROLLER SHALL BE U.L. LISTED AS AN INDUSTRIAL CONTROL PANEL UNDER UL508.
- METAL MOUNTING PANEL SHALL BE #10 GAUGE GALVANIZED SHEET STEEL FLANGED BACK 0.75-INCHES I.D. ON 4 SIDES.
- CIRCUIT BREAKERS AND CONTACTORS AND OTHER COMPONENTS SHALL BE MOUNTED ON 0.125-INCH THICK GLASTIC INSULATION BACK PANEL.
- ALL DEVICES SHALL BE FRONT REMOVABLE.
- BUS BAR SHALL HAVE 22 LUG TERMINALS SIZED TO ACCOMODATE REQUIRED WIRE SIZES. NEUTRAL BUS SHALL BE PAINTED WHITE. GROUND BUS SHALL BE PAINTED GREEN.
- ALL LUGS SHALL BE COPPER SCREWS AND CONNNECTORS, SPRING HELD.
- ALL WIRING TERMINATIONS SHALL BE RATED NOT LESS THAN 75 DEGREE CENTIGRADE.
- ALL CONTROL WIRING SHALL BE 600V MACHINE TOOL WIRE TYPE MTW.
- ALL POWER WIRING SHALL BE 600V TYPE RHH/RHW.
- A LAMINATED COPY OF THE CIRCUIT SCHEMATIC DIAGRAM SHALL BE ATTACHED TO THE INSIDE OF THE CONTROLLER.
- ALL 120 VOLT SYSTEM AND ALL CONTROL WIRING SHALL BE #12 AWG STRANDED UNLESS OTHERWISE INDICATED.
- ALL WIRING SHALL BE NEATLY DRESSED AND SUPPORTED.

ITEM	QTY.	DESCRIPTION
A	1	MAIN CIRCUIT BREAKER, MOLDED CASE, THERMAL MAGNETIC, 2-POLE, 240 V. SINGLE-PHASE, 100 A., BOLT-ON TYPE, TRIP INTERRUPTING RATING OF 22,000 RMS SYMMETICAL AMPERES AT 240 V.
B	1	CONTROL CIRCUIT BREAKER, MOLDED CASE, THERMAL MAGNETIC, SINGLE-POLE, 120 V. SINGLE PHASE 20 A. BOLT-ON TYPE, TRIP INTERRUPTING RATING OF 14,000 RMS SYMMETICAL AMPERES AT 120 V.
C	2	LIGHTING CONTACTOR MECHANICALLY HELD, CUTLER HAMMER A202K3B*M 100 A. 2-POLE, 600 V. WITH 120 COIL
D	2	CONTROL RELAY CUTLER HAMMER D3PR2 RATED 12 A. AT 120 VAC
E	2	ON-OFF-AUTO 3-POSITION SELECTOR SWITCH GE CR104P HEAVY DUTY SWITCH, RATED FOR 10 A. AT 600 VAC.
F	1	GFCI RECEPTACLE, 120 V., 20 A. SPEC. GRADE, NEMA CONFIG. 5-20R
G	1	SPDT MOMENTARY NORMALLY OPEN, NORMALLY CLOSED PUSHBUTTON SWITCH CUTLER HAMMER 84F1063 RATED 15 A. AT 120 V.
H	1	60 WATT LIGHT FIXTURE, VAPOR TIGHT, WITH GLOBE, GUARD AND MOUNTING BOX.
I	1	SECONDARY SURGE ARRESTER SQUARE D SDSA1175, 175 VAC PHASE-TO-GROUND MAXIMUM
J	5	BRANCH CIRCUIT BREAKER, MOLDED CASE, THERMAL MAGNETIC, 2-POLE, 240 V. SINGLE-PHASE, 30A. TRIP INTERRUPTING RATING 10,000 RMS SYMMETICAL AMPERES AT 240 V.
K	5	BRANCH CIRCUIT BREAKER, MOLDED CASE, THERMAL MAGNETIC, 1-POLE, 120 V. SINGLE-PHASE, 30A. TRIP INTERRUPTING RATING 10,000 RMS SYMMETICAL AMPERES AT 120 V.
L	18	TERMINAL BLOCK RATED 600 V., 85 A.
M	1	COPPER NEUTRAL BUS
N	1	COPPER GROUND BUS
D	1	ELCTRONIC TIME SWITCH, SPDT, BATTERY BACK-UP
P	1	ENCLOSURE

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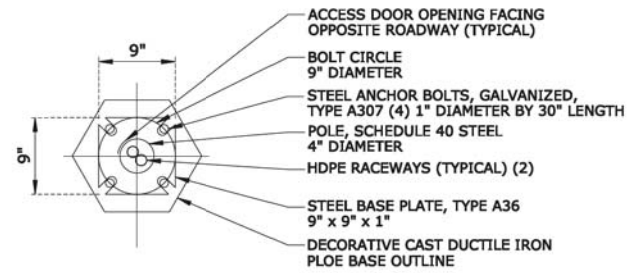
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DATE - 11-02-16	FILE - D162A47-sht-Light-Details2.dgn

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DEPARTMENT OF TRANSPORTATION

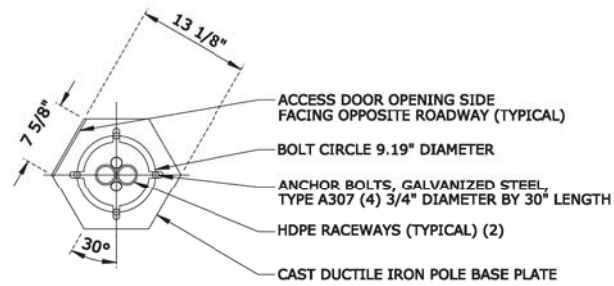
STREET LIGHTING DETAILS

SCALE: NONE STA. TO STA.

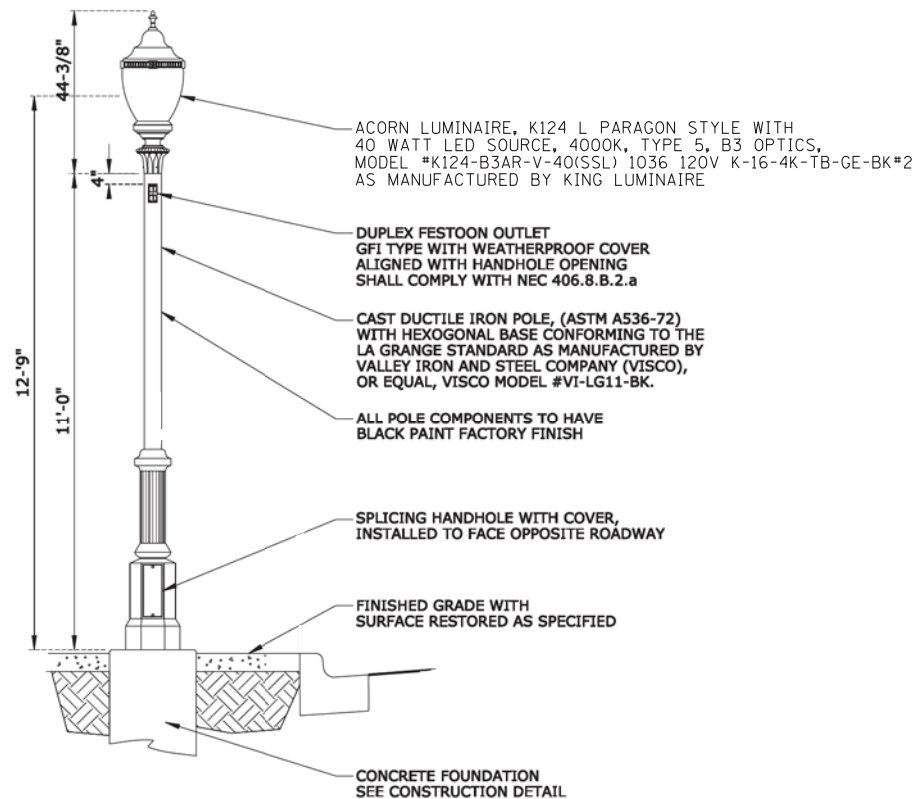
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
330	91Y-N-2	COOK	128	88
CONTRACT NO. 62A47				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT C-91-138-12				



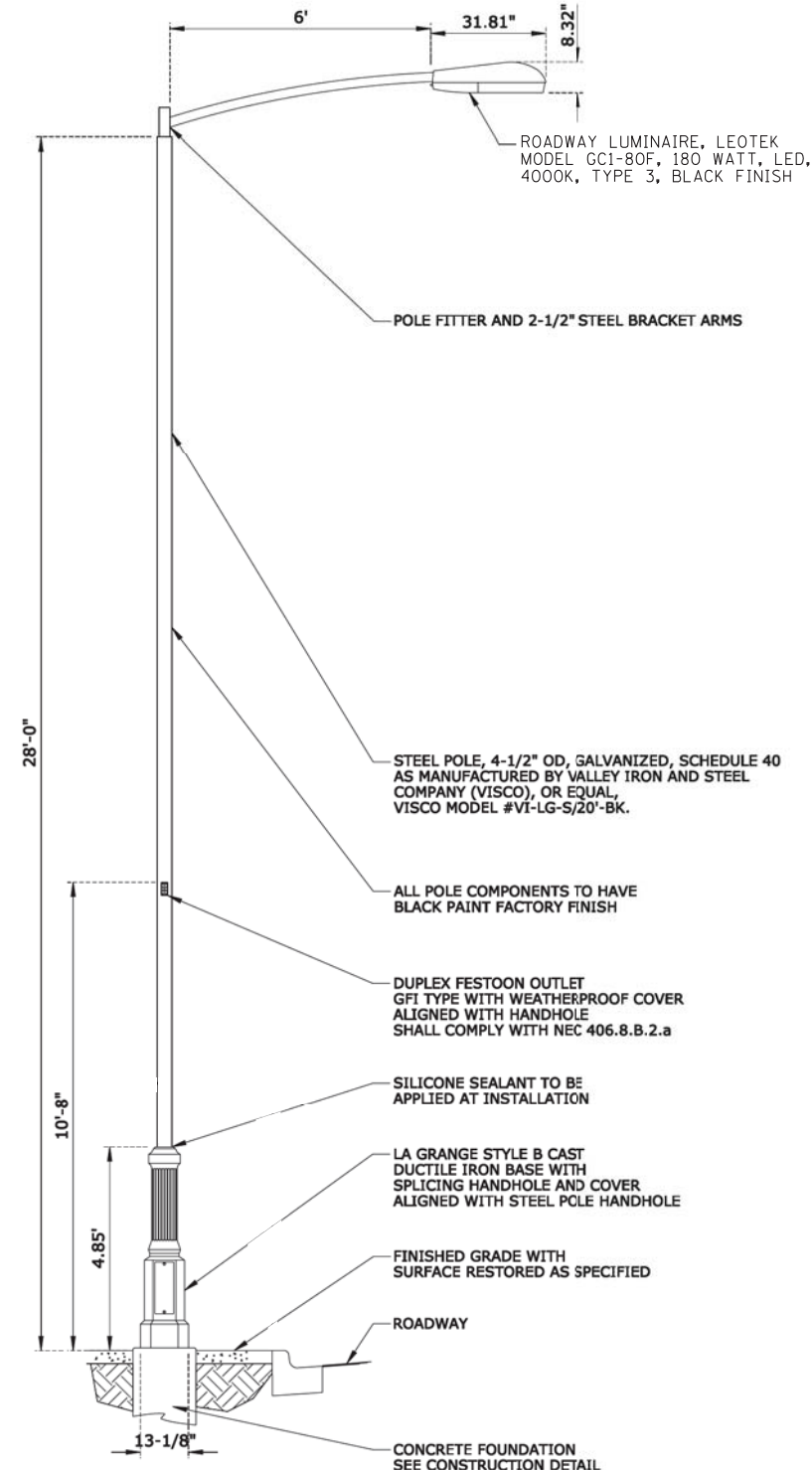
**STYLE C POLE BASE PLATE DETAIL**



**STYLE B POLE BASE PLATE DETAIL**



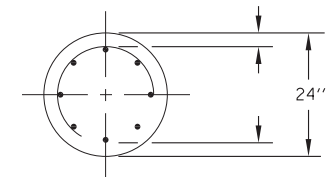
**LA GRANGE LIGHTING STANDARD, STYLE B  
CAST IRON POLE WITH ACORN STYLE LUMINAIRE**



**LA GRANGE LIGHTING STANDARD, STYLE C - 28'  
STEEL POLE WITH CAST IRON BASE AND LUMINAIRE**

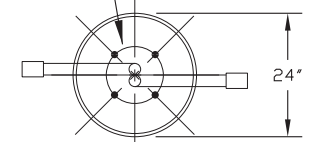
**NOTES:**

1. THE ANCHOR RODS AND RACEWAYS SHALL BE PROPERLY CENTERED AND SECURED IN PLACE BEFORE THE CONCRETE IS PLACED.
2. THE HOLE FOR THE FOUNDATION SHALL BE MADE WITH AN AUGER OF THE SAME DIAMETER AS THE FOUNDATION. IF SOIL CONDITIONS REQUIRE THE USE OF A LINER TO FORM THE HOLE, THE LINER SHALL BE WITHDRAWN AS THE CONCRETE IS DEPOSITED.
3. THE TOP OF THE FOUNDATION SHALL BE CONSTRUCTED LEVEL. A LINER OR FORM SHALL BE USED TO PRODUCE A UNIFORM SMOOTH SIDE TO THE TOP OF THE FOUNDATION. FOUNDATION TOP SHALL BE CHAMFERED 1 INCH.
4. CABLE TRENCHES AND FOUNDATIONS SHALL BE BACKFILLED AND COMPACTED, AND CONCRETE CURED ACCORDING TO APPLICABLE STANDARDS BEFORE LIGHT POLES MAY BE INSTALLED.
5. THE ANCHOR ROD SHALL BE A HOOK ROD TYPE. COLD BENDING OF THE ANCHOR ROD WILL NOT BE ALLOWED. THE ANCHOR ROD SHALL BE THREADED A MINIMUM OF 6 INCHES WITH A MINIMUM OF 3" OF THREADED ANCHOR ROD EMBEDDED IN THE FOUNDATION AND PROJECT A MINIMUM OF 2 3/4" ABOVE THE TOP OF THE FOUNDATION. IF BREAKAWAY COUPLINGS ARE SPECIFIED THE CONTRACTOR SHALL CAREFULLY COORDINATE THE ANCHOR ROD PROJECTION WITH THE INSTALLATION REQUIREMENTS OF THE BREAKAWAY COUPLINGS.
6. THE CONTRACTOR MAY USE A #4 SPIRAL AT 6" PITCH OR #4 TIES AT 12" O.C.
7. RACEWAYS SHALL PROJECT 1" ABOVE THE TOP OF THE FOUNDATION.

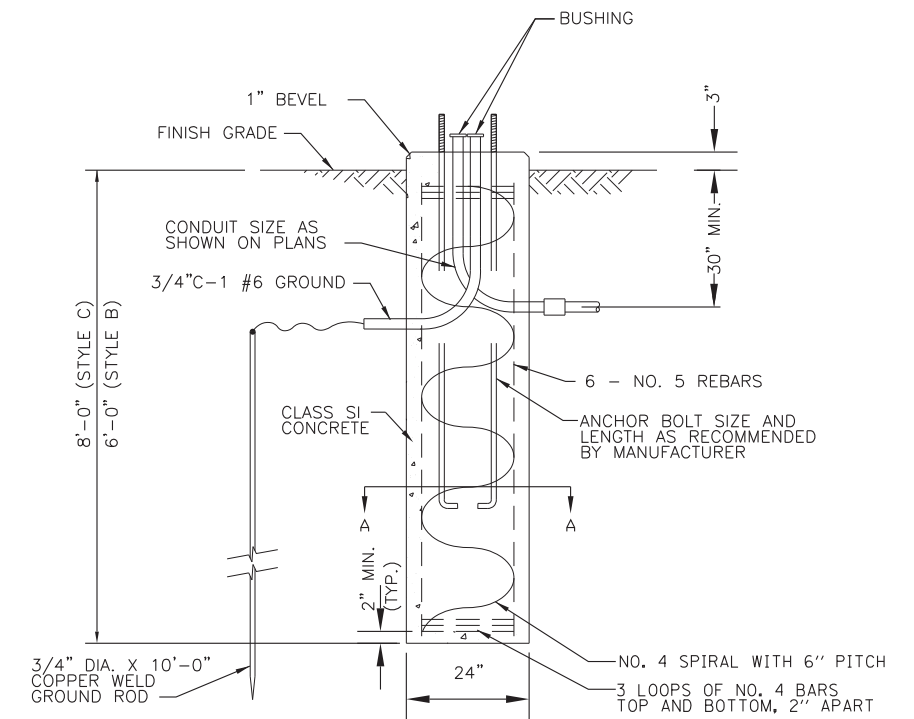


**SECTION A-A**

BOLT CIRCLE PER MANUFACTURER



**TOP VIEW**



**FOUNDATION DETAIL**

NO SCALE

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DRAWN - UKB	REVISED -
CHECKED - MWH	REVISED -
DATE - 11-02-16	FILE - D162447-sht-Light-Details2.dgn

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**STREET LIGHTING DETAILS**

SCALE: NONE

STA. TO STA.

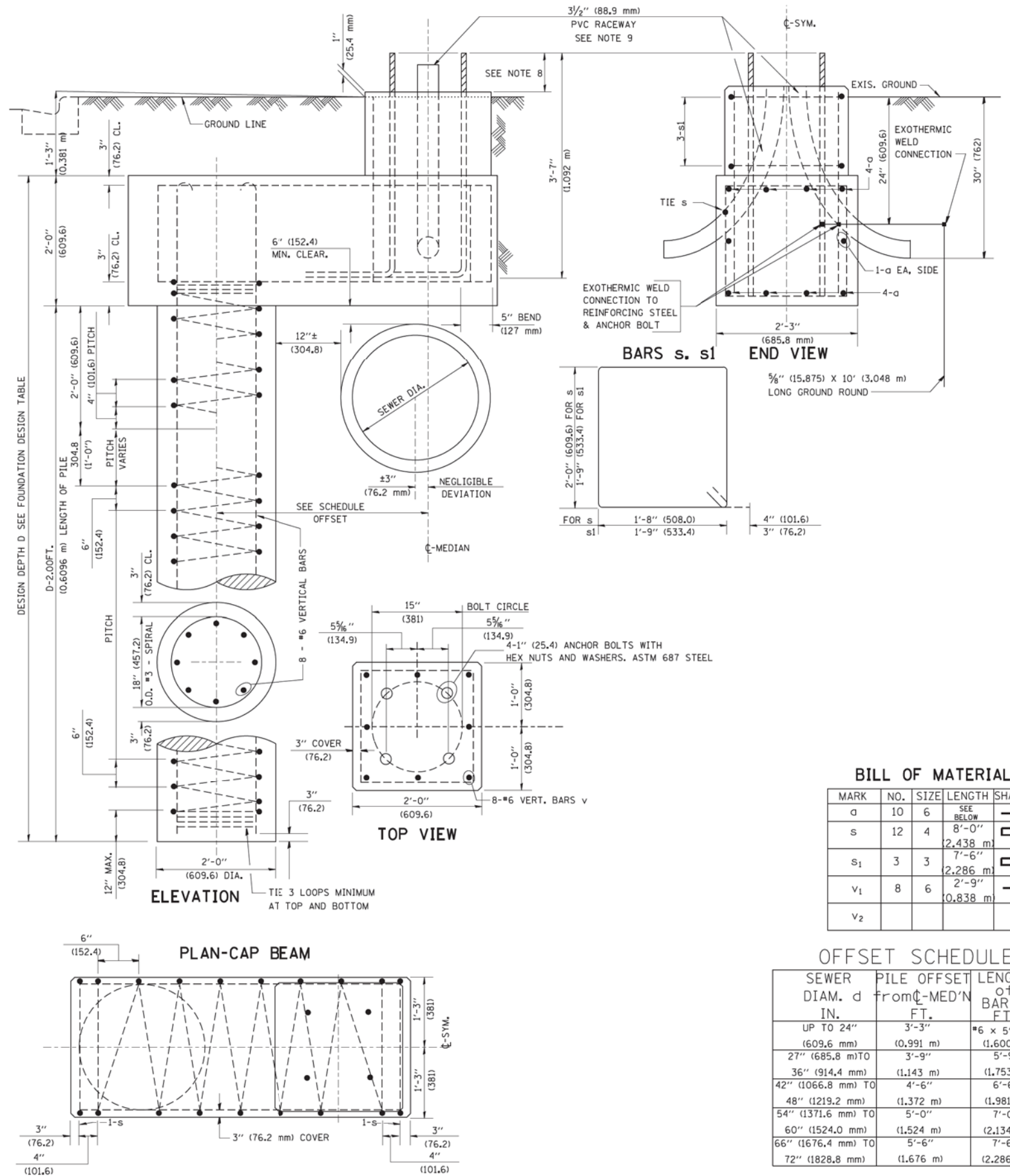
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
330	91Y-N-2	COOK	128	89
CONTRACT NO. 62A47				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT C-91-138-12				

FOUNDATION DESIGN TABLE

TYPE OF SOIL	DESIGN DEPTH OF FOUNDATION		REINFORCEMENT IN FOUNDATION			
	SINGLE ARM D	TWIN ARM D	SINGLE ARM		TWIN ARM	
			VERT BARS	SPIRAL	VERT BARS	SPIRAL
SOFT CLAY	13'-0" (3.962 m)	15'-0" (4.572 m)	8-#6X12'-6" (3.810 m)	#3X122' (37.186 m)	8-#6X14'-3" (4.343 m)	#3X141' (42.977 m)
MEDIUM CLAY	9'-6" (2.896 m)	10'-9" (3.277 m)	8-#6X9'-0" (2.743 m)	#3X90' (27.432 m)	8-#6X10'-0" (3.048 m)	#3X100' (30.480 m)
STIFF CLAY	7'-0" (2.134 m)	8'-0" (2.438 m)	8-#6X6'-6" (1.981 m)	#3X66' (20.112 m)	8-#6X7'-6" (2.286 m)	#3X76' (23.165 m)
LOOSE SAND	9'-0" (2.743 m)	10'-0" (3.048 m)	8-#6X8'-6" (2.591 m)	#3X85' (25.908 m)	8-#6X9'-6" (2.896 m)	#3X94' (28.651 m)
MEDIUM SAND	8'-3" (2.515 m)	9'-0" (2.743 m)	8-#6X8'-0" (2.438 m)	#3X78' (23.774 m)	8-#6X8'-6" (2.591 m)	#3X85' (25.908 m)
DENSE SAND	7'-9" (2.362 m)	9'-0" (2.743 m)	8-#6X7'-6" (2.286 m)	#3X73' (22.250 m)	8-#6X8'-6" (2.591 m)	#3X85' (25.908 m)
ROCK OR SOLIDIFIED SLAG	5'-0" (1.524 m)	5'-0" (1.524 m)	NONE	NONE	NONE	NONE

NOTES

- ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN.
- THE ENGINEER SHALL DETERMINE THE CLASS OF SOIL DURING EXCAVATION AND SELECT THE DESIGN DEPTH OF FOUNDATION FROM THE DESIGN TABLE.
- EXCAVATION OF THE POLE FOUNDATION SHALL BE MADE WITH AN AUGER, 24" (609.6 mm) OR 30" (762.0 mm) IN DIAMETER.
- THE ANCHOR ROD SHALL BE A HOOK ROD TYPE. COLD BENDING OF THE ANCHOR ROD WILL NOT BE ALLOWED. THE RADIUS OF THE HOOK BEND SHALL NOT BE LESS THAN 4 TIMES THE NOMINAL DIAMETER OF THE ANCHOR ROD. A TACK WELDED ANCHOR ROD MAY BE SUBSTITUTED WITH THE APPROVAL OF THE ENGINEER.
- THE ANCHOR BOLTS AND RACEWAYS SHALL BE PROPERLY SECURED IN PLACE BEFORE THE CONCRETE IS PLACED IN THE FORM.
- THE ANCHOR RODS SHALL BE ACCORDING TO ASTM F1554 GRADE 725 (GRADE 105). NUTS SHALL BE HEXAGON NUTS ACCORDING TO ASTM A 194 2H OR ASTM A 563 DH, AND WASHERS SHALL BE ACCORDING TO ASTM F 436.
- THE CONTRACTOR SHALL COORDINATE EXTENSION OF ANCHOR BOLTS ABOVE TOP OF FOUNDATION WITH THE BREAKAWAY DEVICE MANUFACTURER'S REQUIREMENTS. IF LIGHT POLE IS MOUNTED WITHOUT BREAKAWAY DEVICE, ANCHOR BOLTS SHALL PROJECT 2 3/4" (69.9 mm) ABOVE TOP OF THE FOUNDATION. THE CONTRACTOR SHALL CONFIRM ANCHOR BOLT EXTENTION WITH ENGINEER.
- RACEWAYS SHALL PROJECT 1" (25.4 mm) ABOVE THE TOP OF THE FOUNDATION.
- THE CABLE TRENCH SHALL BE BACKFILLED AND FIRMLY COMPACTED BEFORE THE LIGHT IS ERECTED.



BILL OF MATERIAL

MARK	NO.	SIZE	LENGTH	SHAPE
a	10	6	SEE BELOW	—
s	12	4	8'-0" (2,438 m)	□
s <sub>1</sub>	3	3	7'-6" (2,286 m)	□
v <sub>1</sub>	8	6	2'-9" (0,838 m)	—
v <sub>2</sub>				

OFFSET SCHEDULE

SEWER DIAM. d	PILE OFFSET FROM C-MEDIAN IN.	LENGTH OF BAR a FT.
UP TO 24" (609.6 mm)	3'-3" (0.991 m)	#6 x 5'-3" (1.600 m)
27" (685.8 mm) TO	3'-9" (1.143 m)	5'-9" (1.753 m)
36" (914.4 mm)	(1.143 m)	(1.753 m)
42" (1066.8 mm) TO	4'-6" (1.372 m)	6'-6" (1.981 m)
48" (1219.2 mm)	(1.372 m)	(1.981 m)
54" (1371.6 mm) TO	5'-0" (1.524 m)	7'-0" (2.134 m)
60" (1524.0 mm) TO	(1.524 m)	(2.134 m)
66" (1676.4 mm) TO	5'-6" (1.676 m)	7'-6" (2.286 m)
72" (1828.8 mm)	(1.676 m)	(2.286 m)

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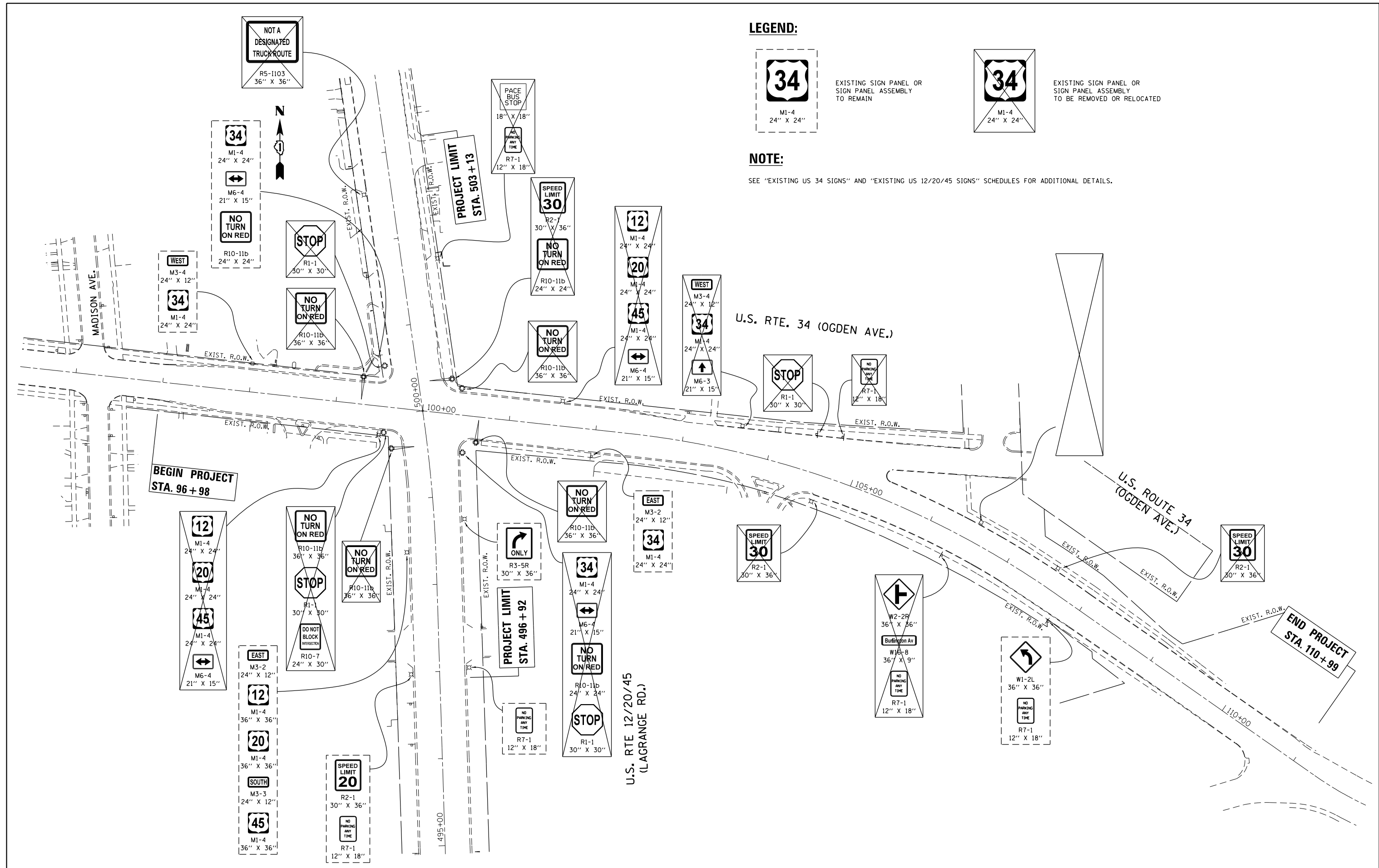
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LIGHT POLE FOUNDATION OFFSET  
40" (1016 mm) TO 47 1/2" (1194 mm) M.H.  
15" (381 mm) BOLT CIRCLE

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

F.A. RTE. 330	SECTION 91Y-N-2	COUNTY COOK	TOTAL SHEETS 128	SHEET NO. 90
BE-310		CONTRACT NO. 62A47		
ILLINOIS FED. AID PROJECT C-91-138-12				





**LEGEND:**



EXISTING SIGN PANEL OR SIGN PANEL ASSEMBLY TO REMAIN



EXISTING SIGN PANEL OR SIGN PANEL ASSEMBLY TO BE REMOVED OR RELOCATED

**NOTE:**

SEE "EXISTING US 34 SIGNS" AND "EXISTING US 12/20/45 SIGNS" SCHEDULES FOR ADDITIONAL DETAILS.

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Default	PLOT DATE = 11/2/2016	DATE -	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

<b>EXISTING SIGNING PLAN</b>			
<b>U.S. ROUTE 12/20/45 AT U.S. ROUTE 34</b>			
SCALE:	SHEET	OF SHEETS	STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
330	91Y-N-2	COOK	128	91
ILLINOIS FED. AID PROJECT			CONTRACT NO. 62A47	

**EXISTING US 34 SIGNS:**

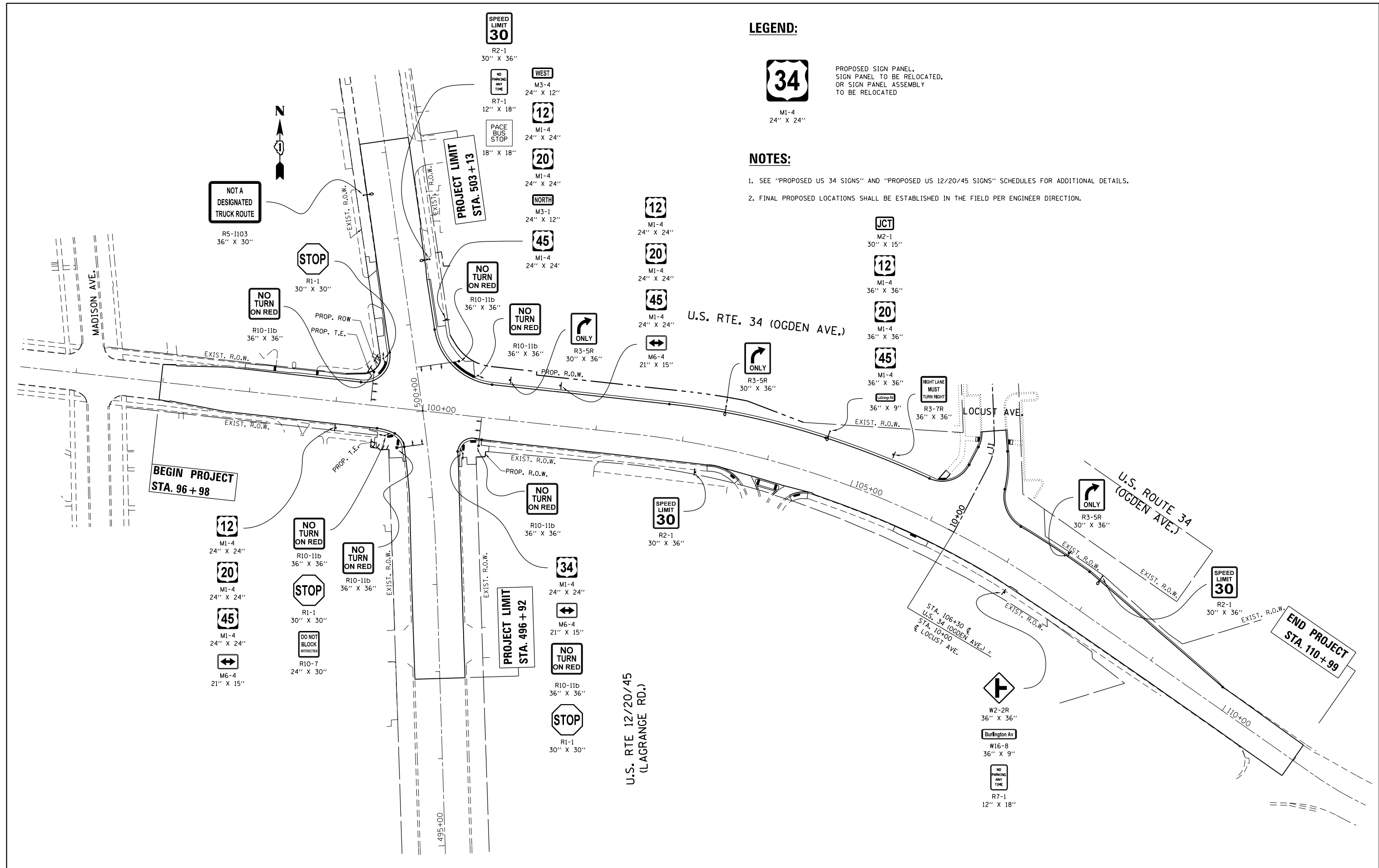
STATION	OFFSET	FACING TRAFFIC	PANEL DESCRIPTION	SIZE (W x H)	SIGN CODE	NOTES	ACTION	REMOVE SIGN PANEL - TYPE 1 (SQ FT)	REMOVE SIGN PANEL ASSEMBLY - TYPE A (EACH)	REMOVE SIGN PANEL ASSEMBLY - TYPE B (EACH)
97+99.9	32.6' LT	WB	CARDINAL DIRECTION AUXILIARY (WEST)	24" x 12"	M3-4	ON UTILITY POLE	SIGN TO REMAIN	-	-	-
97+99.9	32.6' LT	WB	U.S. ROUTE MARKER (U.S. 34)	24" x 24"	M1-4	ON UTILITY POLE	SIGN TO REMAIN	-	-	-
99+28.4	31.5' LT	WB	NO TURN ON RED	36" x 36"	R10-11b	ON MAST ARM POLE	SIGN PANEL TO BE REMOVED	9.00	-	-
99+52.7	33.2' RT	EB	U.S. ROUTE MARKER (U.S. 12)	24" x 24"	M1-4	ON LIGHT POLE	SIGN PANEL TO BE REMOVED	4.00	-	-
99+52.7	33.2' RT	EB	U.S. ROUTE MARKER (U.S. 20)	24" x 24"	M1-4	ON LIGHT POLE	SIGN PANEL TO BE REMOVED	4.00	-	-
99+52.7	33.2' RT	EB	U.S. ROUTE MARKER (U.S. 45)	24" x 24"	M1-4	ON LIGHT POLE	SIGN PANEL TO BE REMOVED	4.00	-	-
99+52.7	33.2' RT	EB	DIRECTIONAL ARROW AUXILIARY (BOTH DIRECTIONS)	21" x 15"	M6-4	ON LIGHT POLE	SIGN PANEL TO BE REMOVED	2.19	-	-
99+58.2	29.6' RT	EB	NO TURN ON RED	36" x 36"	R10-11b	ON SIGNAL POST	SIGN PANEL TO BE REMOVED	9.00	-	-
* 99+58.2	29.6' RT	EB	STOP	30" x 30"	R1-1	TRI-FOLD, ON SIGNAL POST	SIGN PANEL TO BE REMOVED	6.25	-	-
99+58.2	29.6' RT	WB	DO NOT BLOCK INTERSECTION	24" x 30"	R10-7	ON SIGNAL POST	SIGN PANEL TO BE REMOVED	5.00	-	-
100+42.1	30.6' LT	WB	NO TURN ON RED	36" x 36"	R10-11b	ON SIGNAL POST	SIGN PANEL TO BE REMOVED	9.00	-	-
100+64.7	29.5' RT	EB	NO TURN ON RED	36" x 36"	R10-11b	ON MAST ARM POLE	SIGN PANEL TO BE REMOVED	9.00	-	-
101+58.6	28.7' LT	WB	U.S. ROUTE MARKER (U.S. 12)	24" x 24"	M1-4	ON LIGHT POLE	SIGN PANEL TO BE REMOVED	4.00	-	-
101+58.6	28.7' LT	WB	U.S. ROUTE MARKER (U.S. 20)	24" x 24"	M1-4	ON LIGHT POLE	SIGN PANEL TO BE REMOVED	4.00	-	-
101+58.6	28.7' LT	WB	U.S. ROUTE MARKER (U.S. 45)	24" x 24"	M1-4	ON LIGHT POLE	SIGN PANEL TO BE REMOVED	4.00	-	-
101+58.6	28.7' LT	WB	DIRECTIONAL ARROW AUXILIARY (BOTH DIRECTIONS)	21" x 15"	M6-4	ON LIGHT POLE	SIGN PANEL TO BE REMOVED	2.19	-	-
101+98.1	30.7' RT	EB	CARDINAL DIRECTION AUXILIARY (EAST)	24" x 12"	M3-2		SIGN & POST TO REMAIN	-	-	-
101+98.1	30.7' RT	EB	U.S. ROUTE MARKER (U.S. 34)	24" x 24"	M1-4		SIGN & POST TO REMAIN	-	-	-
103+63.4	30.6' LT	WB	CARDINAL DIRECTION AUXILIARY (WEST)	24" x 12"	M3-4	ON LIGHT POLE	SIGN PANEL TO BE REMOVED	2.00	-	-
103+63.4	30.6' LT	WB	U.S. ROUTE MARKER (U.S. 34)	24" x 24"	M1-4	ON LIGHT POLE	SIGN PANEL TO BE REMOVED	4.00	-	-
103+63.4	30.6' LT	WB	DIRECTIONAL ARROW AUXILIARY (UP)	21" x 15"	M6-3	ON LIGHT POLE	SIGN PANEL TO BE REMOVED	2.19	-	-
104+45.2	43.6' LT	WB	STOP	30" x 30"	R1-1		SIGN & POST TO BE REMOVED	-	1	-
104+62.9	31.5' RT	EB	SPEED LIMIT (30)	30" x 36"	R2-1	ON LIGHT POLE	SIGN PANEL TO BE REMOVED	7.50	-	-
104+73.5	50.0' LT	WB	NO PARKING ANY TIME	12" x 18"	R7-1		SIGN & POST TO BE REMOVED	-	1	-
* 106+29.8	29.8' RT	EB	SIDE ROAD	36" x 36"	W2-2R		SIGN & POST TO BE REMOVED			1
			ADVANCE STREET NAME PLAQUE (BURLINGTON AV)	36" x 9"	W16-8					
			NO PARKING ANY TIME	12" x 18"	R7-1					
106+52.2	24.6' LT	WB	JUNCTION AUXILIARY	30" x 18"	M2-1	ON LIGHT POLE	SIGN PANEL TO BE REMOVED	3.75	-	-
106+52.2	24.6' LT	WB	U.S. ROUTE MARKER (U.S. 12)	36" x 36"	M1-4	ON LIGHT POLE	SIGN PANEL TO BE REMOVED	9.00	-	-
106+52.2	24.6' LT	WB	U.S. ROUTE MARKER (U.S. 20)	36" x 36"	M1-4	ON LIGHT POLE	SIGN PANEL TO BE REMOVED	9.00	-	-
106+52.2	24.6' LT	WB	U.S. ROUTE MARKER (U.S. 45)	36" x 36"	M1-4	ON LIGHT POLE	SIGN PANEL TO BE REMOVED	9.00	-	-
106+52.2	24.6' LT	WB	ADVANCE STREET NAME PLAQUE (LA GRANGE RD)	36" x 9"	-	ON LIGHT POLE	SIGN PANEL TO BE REMOVED	2.25	-	-
107+52.5	25.7' LT	WB	SPEED LIMIT (30)	30" x 36"	R2-1	ON LIGHT POLE	SIGN PANEL TO BE REMOVED	7.50	-	-
107+77.6	30.8' RT	EB	CURVE	36" x 36"	W1-2L		SIGN & POST TO REMAIN	-	-	-
107+77.6	30.8' RT	EB	NO PARKING ANY TIME	12" x 18"	R7-1		SIGN & POST TO REMAIN	-	-	-

\* THIS SIGN PANEL OR SIGN PANEL ASSEMBLY SHALL BE RELOCATED. SEE THE "PROPOSED US 34 SIGNS" SCHEDULE FOR LOCATIONS.



EXISTING US 12/20/45 SIGNS:								
STATION	OFFSET	FACING TRAFFIC	PANEL DESCRIPTION	SIZE (W x H)	SIGN CODE	NOTES	ACTION	REMOVE SIGN PANEL - TYPE 1 (SQ FT)
496+97.8	32.8' LT	SB	SPEED LIMIT (20)	30" x 36"	R2-1	ON LIGHT POLE	SIGN TO REMAIN	-
496+97.8	32.8' LT	SB	NO PARKING ANYTIME	12" x 18"	R7-1	ON LIGHT POLE	SIGN TO REMAIN	-
497+03.5	34.1' RT	NB	NO PARKING ANYTIME	12" x 18"	R7-1	ON LIGHT POLE	SIGN TO REMAIN	-
498+38.2	33.2' LT	SB	CARDINAL DIRECTION AUXILIARY (EAST)	24" x 12"	M3-2	ON LIGHT POLE	SIGN TO REMAIN	-
498+38.2	33.2' LT	SB	U.S. ROUTE MARKER (U.S. 12)	36" x 36"	M1-4	ON LIGHT POLE	SIGN TO REMAIN	-
498+38.2	33.2' LT	SB	U.S. ROUTE MARKER (U.S. 20)	36" x 36"	M1-4	ON LIGHT POLE	SIGN TO REMAIN	-
498+38.2	33.2' LT	SB	CARDINAL DIRECTION AUXILIARY (SOUTH)	24" x 12"	M3-3	ON LIGHT POLE	SIGN TO REMAIN	-
498+38.2	33.2' LT	SB	U.S. ROUTE MARKER (U.S. 45)	36" x 36"	M1-4	ON LIGHT POLE	SIGN TO REMAIN	-
498+72.9	34.8' RT	NB	MANDATORY MOVEMENT LANE CONTROL	30" x 36"	R3-5R	ON LIGHT POLE	SIGN TO REMAIN	-
499+47.2	39.0' RT	NB	U.S. ROUTE MARKER (U.S. 34)	24" x 24"	M1-4	ON SIGNAL POST	SIGN PANEL TO BE REMOVED	4.00
499+47.2	39.0' RT	NB	DIRECTIONAL ARROW AUXILIARY (BOTH DIRECTIONS)	21" x 15"	M6-4	ON SIGNAL POST	SIGN PANEL TO BE REMOVED	2.19
499+47.2	39.0' RT	NB	NO TURN ON RED	24" x 24"	R10-11b	ON SIGNAL POST	SIGN PANEL TO BE REMOVED	4.00
* 499+47.2	39.0' RT	NB	STOP	30" x 30"	R1-1	TRI-FOLD, ON SIGNAL POST	SIGN PANEL TO BE REMOVED	6.25
499+61.4	41.1' LT	SB	NO TURN ON RED	24" x 24"	R10-11b	ON MAST ARM POLE	SIGN PANEL TO BE REMOVED	4.00
500+31.2	38.8' RT	NB	SPEED LIMIT (30)	30" x 36"	R2-1	ON MAST ARM POLE	SIGN PANEL TO BE REMOVED	7.50
500+31.2	38.8' RT	NB	NO TURN ON RED	24" x 24"	R10-11b	ON MAST ARM POLE	SIGN PANEL TO BE REMOVED	4.00
* 500+57.4	35.8' LT	SB	STOP	30" x 30"	R1-1	TRI-FOLD, ON SIGNAL POST	SIGN PANEL TO BE REMOVED	6.25
500+69.2	40.4' LT	SB	U.S. ROUTE MARKER (U.S. 34)	24" x 24"	M1-4		SIGN & POST TO REMAIN	-
500+69.2	40.4' LT	SB	DIRECTIONAL ARROW AUXILIARY (BOTH DIRECTIONS)	21" x 15"	M6-4		SIGN & POST TO REMAIN	-
500+69.2	40.4' LT	SB	NO TURN ON RED	24" x 24"	R10-11b		SIGN & POST TO REMAIN	-
* 501+70.8	41.5' RT	NB	PACE BUS STOP	18" x 18"	-	ON LIGHT POLE	SIGN PANEL TO BE REMOVED	2.25
501+70.8	41.5' RT	NB	NO PARKING ANYTIME	12" x 18"	R7-1	ON LIGHT POLE	SIGN PANEL TO BE REMOVED	1.50
502+55.0	31.7' LT	SB	NOT A DESIGNATED TRUCK ROUTE	36" x 36"	R5-1103	ON LIGHT POLE	SIGN PANEL TO BE REMOVED	9.00

\* THIS SIGN PANEL OR SIGN PANEL ASSEMBLY SHALL BE RELOCATED. SEE THE "PROPOSED US 12/20/45 SIGNS" SCHEDULE FOR LOCATIONS.



FILE NAME =	USER NAME = toriafm	DESIGNED -	REVISED -
p:\11\084EBID\INTEG\illinois.gov\PIWIDOT\Documents\DOT Offices\District 1\Projects\PI13812\Drawings\Design\PI13812-sht-typical.dgn		DRAWN -	REVISED -
Default	PLOT SCALE = 100.0000' / in.	CHECKED -	REVISED -
	PLOT DATE = 11/2/2016	DATE -	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**PROPOSED SIGNING PLAN  
U.S. ROUTE 12/20/45 AT U.S. ROUTE 34**

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
330	91Y-N-2	COOK	128	94
ILLINOIS FED. AID PROJECT			CONTRACT NO. 62A47	

**PROPOSED US 34 SIGNS:**

STATION	OFFSET	FACING TRAFFIC	SIGN CODE	SIZE (W X H)	PANEL DESCRIPTION	RELOCATE SIGN PANEL - TYPE 1 (SQ.FT)	RELOCATE SIGN PANEL ASSEMBLY - TYPE B (EACH)	SIGN PANEL - TYPE 1 (SQ.FT)	TELESCOPING STEEL SIGN SUPPORT (FT)	BASE FOR TELESCOPING STEEL SIGN SUPPORT (EA)	NOTES	
99+03.2	29.2' RT	EB	M1-4	24" x 24"	U.S. ROUTE MARKER (U.S. 12)	-	-	4.00	20.25	1		
			M1-4	24" x 24"	U.S. ROUTE MARKER (U.S. 20)	-	-	4.00				
			M1-4	24" x 24"	U.S. ROUTE MARKER (U.S. 45)	-	-	4.00				
			M6-4	21" x 15"	DIRECTIONAL ARROW AUXILIARY (BOTH DIRECTIONS)	-	-	2.19				
99+39.6	38.3' LT	WB	R10-11b	36" x 36"	NO TURN ON RED	-	-	9.00	-	-	TO BE INSTALLED ON PROPOSED MAST ARM POLE	
99+59.9	33.0' RT	EB	R10-11b	36" x 36"	NO TURN ON RED	-	-	9.00	-	-	TO BE INSTALLED ON PROPOSED SIGNAL POST	
			R1-1	30" x 30"	STOP	6.25	-	-	-	-	-	TRI-FOLD SIGN, TO BE INSTALLED ON PROPOSED SIGNAL POST
			R10-7	24" x 30"	DO NOT BLOCK INTERSECTION	-	-	5.00	-	-	-	TO BE INSTALLED ON PROPOSED SIGNAL POST
100+58.8	47.3' LT	WB	R10-11b	36" x 36"	NO TURN ON RED	-	-	9.00	-	-	TO BE INSTALLED ON PROPOSED SIGNAL POST	
100+68.2	32.8' RT	EB	R10-11b	36" x 36"	NO TURN ON RED	-	-	9.00	-	-	TO BE INSTALLED ON PROPOSED MAST ARM POLE	
100+95.5	46.0' LT	WB	R3-5R	30" x 36"	RIGHT ONLY WITH ARROW	-	-	7.50	16.00	1		
101+53.8	46.1' LT	WB	M1-4	24" x 24"	U.S. ROUTE MARKER (U.S. 12)	-	-	4.00	20.25	1		
			M1-4	24" x 24"	U.S. ROUTE MARKER (U.S. 20)	-	-	4.00				
			M1-4	24" x 24"	U.S. ROUTE MARKER (U.S. 45)	-	-	4.00				
			M6-4	21" x 15"	DIRECTIONAL ARROW AUXILIARY (BOTH DIRECTIONS)	-	-	2.19				
103+21.4	32.5' RT	EB	R2-1	30" x 36"	SPEED LIMIT (30)	-	-	7.50	16.00	1		
103+41.0	48.8' LT	WB	R3-5R	30" x 36"	RIGHT ONLY WITH ARROW	-	-	7.50	-	-	TO BE INSTALLED ON PROPOSED LIGHT POLE	
104+58.2	51.6' LT	WB	M2-1	30" x 15"	JUNCTION AUXILIARY	-	-	3.13	-	-	-	TO BE INSTALLED ON PROPOSED LIGHT POLE
			M1-4	36" x 36"	U.S. ROUTE MARKER (U.S. 12)	-	-	9.00	-	-	-	
			M1-4	36" x 36"	U.S. ROUTE MARKER (U.S. 20)	-	-	9.00	-	-	-	
			M1-4	36" x 36"	U.S. ROUTE MARKER (U.S. 45)	-	-	9.00	-	-	-	
			-	36" x 9"	ADVANCE STREET NAME PLAQUE (LA GRANGE RD)	-	-	2.25	-	-	-	
105+31.9	51.6' LT	WB	R3-7R	36" x 36"	RIGHT LANE MUST TURN RIGHT	-	-	9.00	16.00	1		
107+16.1	31.3' RT	EB	W2-2R	36" x 36"	SIDE ROAD	-	-	-	18.25	1		
			W16-8	36" x 9"	ADVANCE STREET NAME PLAQUE (BURLINGTON AV)	-	1	-				
			R7-1	12" x 18"	NO PARKING ANY TIME	-	-	-				
107+52.7	47.0' LT	WB	R3-5R	30" x 36"	RIGHT ONLY WITH ARROW	-	-	7.50	16.00	1		
107+99.1	47.2' LT	WB	R2-1	30" x 36"	SPEED LIMIT (30)	-	-	7.50	-	-	TO BE INSTALLED ON PROPOSED LIGHT POLE	

**PROPOSED US 12/20/45 SIGNS:**

STATION	OFFSET	FACING TRAFFIC	SIGN CODE	SIZE (W X H)	PANEL DESCRIPTION	RELOCATE SIGN PANEL - TYPE 1 (SQ FT)	SIGN PANEL - TYPE 1 (SQ FT)	TELESCOPING STEEL SIGN SUPPORT (FT)	BASE FOR TELESCOPING STEEL SIGN SUPPORT (EA)	NOTES
499+46.0	39.5' RT	NB	M1-4	24" x 24"	U.S. ROUTE MARKER (U.S. 34)	-	4.00	-	-	TO BE INSTALLED ON PROPOSED SIGNAL POST
			M6-4	21" x 15"	DIRECTIONAL ARROW AUXILIARY (BOTH DIRECTIONS)	-	2.19	-	-	TO BE INSTALLED ON PROPOSED SIGNAL POST
			R10-11b	36" x 36"	NO TURN ON RED	-	9.00	-	-	TO BE INSTALLED ON PROPOSED SIGNAL POST
			R1-1	30" x 30"	STOP	6.25	-	-	-	TRI-FOLD SIGN, TO BE INSTALLED ON PROPOSED SIGNAL POST
499+61.7	35.0' LT	SB	R10-11b	36" x 36"	NO TURN ON RED	-	9.00	-	-	TO BE INSTALLED ON PROPOSED MAST ARM POLE
500+50.4	49.2' RT	NB	R10-11b	36" x 36"	NO TURN ON RED	-	9.00	-	-	TO BE INSTALLED ON PROPOSED MAST ARM POLE
500+65.8	36.3' LT	SB	R1-1	30" x 30"	STOP	6.25	-	-	-	TRI-FOLD SIGN, TO BE INSTALLED ON PROPOSED SIGNAL POST
501+00.2	41.6' RT	NB	M3-4	24" x 12"	CARDINAL DIRECTION AUXILIARY (WEST)	-	2.00	21.00	1	
			M1-4	24" x 24"	U.S. ROUTE MARKER (U.S. 12)	-	4.00			
			M1-4	24" x 24"	U.S. ROUTE MARKER (U.S. 20)	-	4.00			
			M3-1	24" x 12"	CARDINAL DIRECTION AUXILIARY (NORTH)	-	2.00			
			M1-4	24" x 24"	U.S. ROUTE MARKER (U.S. 45)	-	4.00			
501+71.0	32.5' RT	NB	R2-1	30" x 36"	SPEED LIMIT (30)	-	7.50	-	-	TO BE INSTALLED ON PROPOSED LIGHT POLE
			R7-1	12" x 18"	NO PARKING ANY TIME	-	1.50	-	-	TO BE INSTALLED ON PROPOSED LIGHT POLE
			-	18" x 18"	PACE BUS STOP	2.25	-	-	-	TO BE INSTALLED ON PROPOSED LIGHT POLE
502+54.6	32.2' LT	SB	R5-1103	36" x 30"	NOT A DESIGNATED TRUCK ROUTE	-	7.50	-	-	TO BE INSTALLED ON PROPOSED LIGHT POLE

# FOR INFORMATION ONLY

## NOTES:

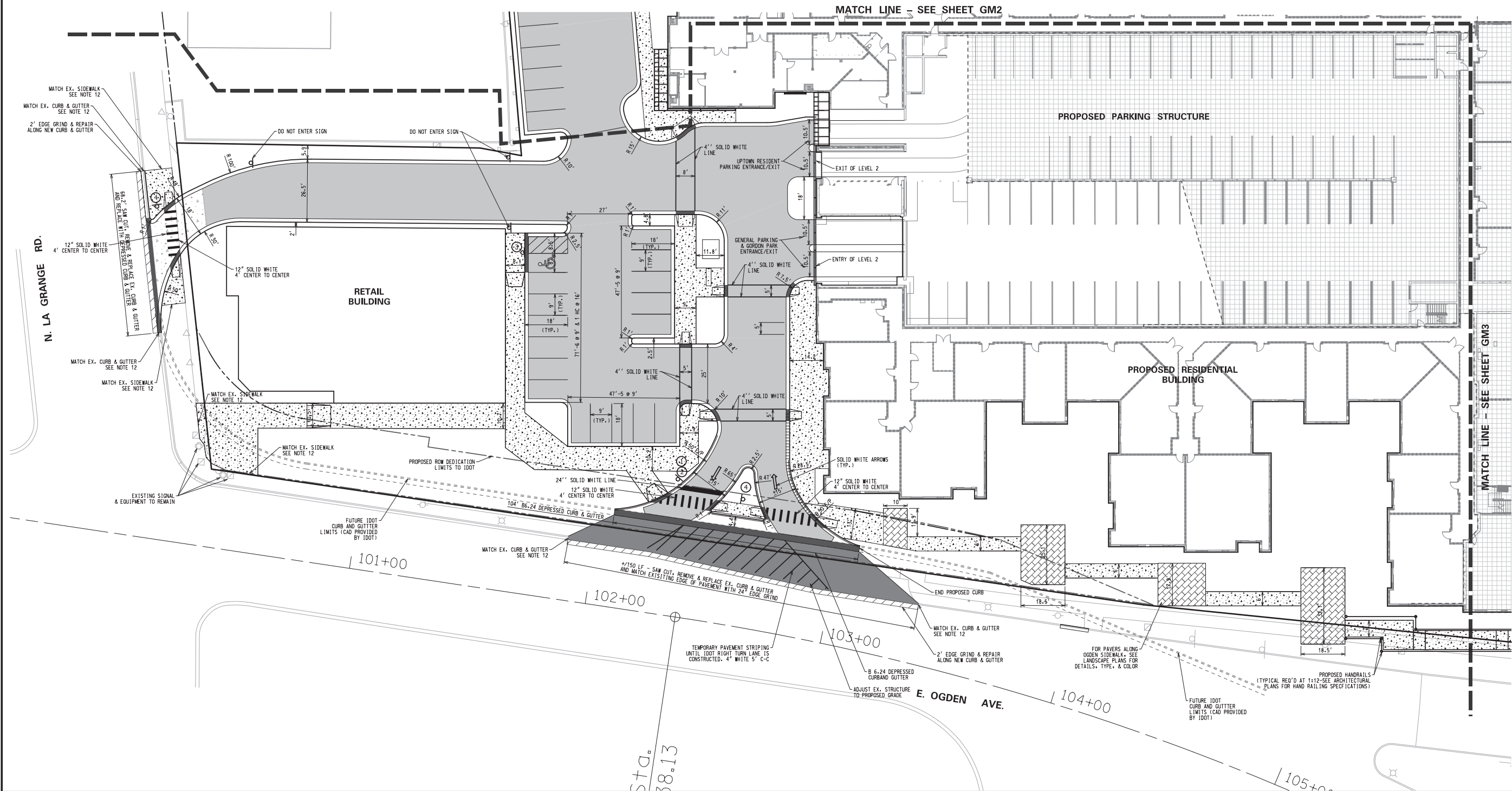
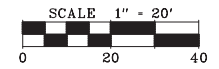
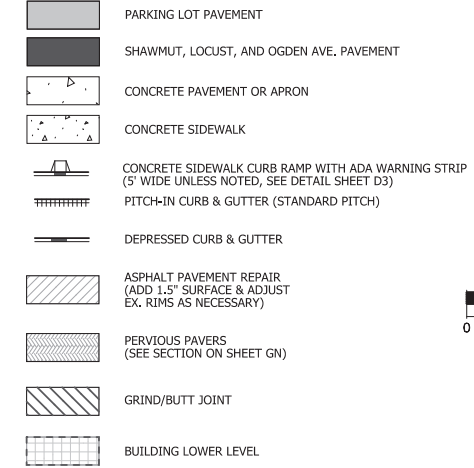
- BUILDING PLANS SHOWN FOR REFERENCE ONLY AND SHOULD BE VERIFIED WITH ARCHITECTURAL PLANS.
- SEE SHEET GN FOR TYPICAL PAVEMENT SECTIONS.
- ALL CURB SHALL BE B6.12 CURB AND GUTTER AND PITCH OUT UNLESS NOTED OTHERWISE.
- FOUNDATION, DOORWAYS & ACCESS LOCATIONS ARE SHOWN FOR REFERENCE ONLY TO BE CONFIRMED WITH FINAL ARCHITECTURAL PLANS.
- DEMOLITION OF ALL ON-SITE PAVEMENT, CURB, & BUILDINGS DETAILED ON SHEETS ET1-ET2.
- SITE SHALL MEET ALL ADA REQUIREMENTS. ALL ADA DETECTABLE WARNING TILE SHALL BE PER VILLAGE STANDARD. SEE DETAIL SHEET 3 FOR ACCESSIBLE PARKING SPACE MARKINGS AND SIGNAGE.
- ALL EXISTING ON-SITE SIGNAGE OR POSTS IS ASSUMED TO BE REMOVED AND DISPOSED OF AS DIRECTED BY GENERAL CONTRACTOR. PUBLIC SIGNAGE WITH IN RIGHT-OF-WAY LIMITS IS ASSUMED TO REMAIN IN PLACE OR REMOVED AND REINSTALLED AS NECESSARY TO COMPLETE IMPROVEMENTS.
- ALL PAVEMENT MARKINGS SHALL BE 4" YELLOW PAINT UNLESS NOTED OTHERWISE.
- ALL CURB RADII NOT LABELED ARE THREE-FOOT (3')
- ANY FENCING IS SHOWN FOR REFERENCE ONLY. TYPE AND DESIGN TO BE DETAILED ON THE ARCHITECTURAL OR LANDSCAPE PLANS.
- ANY REQUIRED CONCRETE BOLLARDS TO BE SHOWN ON ARCHITECTURAL PLANS, AND SHOWN FOR COORDINATION ON ENGINEERING PLANS.
- DOWEL BARS AND EXPANSION JOINT FILLER MATERIAL SHALL BE PROVIDED AT ALL JOINTS BETWEEN EXISTING AND PROPOSED SIDEWALK AND CURB AND GUTTER. SEE SHEET S1 PAVING NOTE 3.B.

## SIGN LEGEND:



NOTE: ① INDICATES SIGN ① MOUNTED ABOVE SIGN ②

## LEGEND



NO.	DATE	REMARKS
5	03/30/15	PER MWRD & OWNER REVISIONS
4	07/14/15	PER VILLAGE REVIEW
3	12/12/14	PER OWNER AND VILLAGE
2	10/21/14	PER PUBLIC WORKS MEETING
1	10/13/14	PER VILLAGE REVIEW

GEOMETRIC PLAN - 1  
**UPTOWN LA GRANGE**  
 LA GRANGE, IL

CONSULTING ENGINEERS  
**SITE DEVELOPMENT ENGINEERS**  
 LAND SURVEYORS  
 9575 W. Higgins Road, Suite 700,  
 Rosemont, Illinois 60018  
 Phone: (847) 694-4060 Fax: (847) 694-4065



FILENAME: 7982GM01
DATE: 09/26/14
JOB NO. 7982
SHEET <b>GM1</b> 6 OF 26



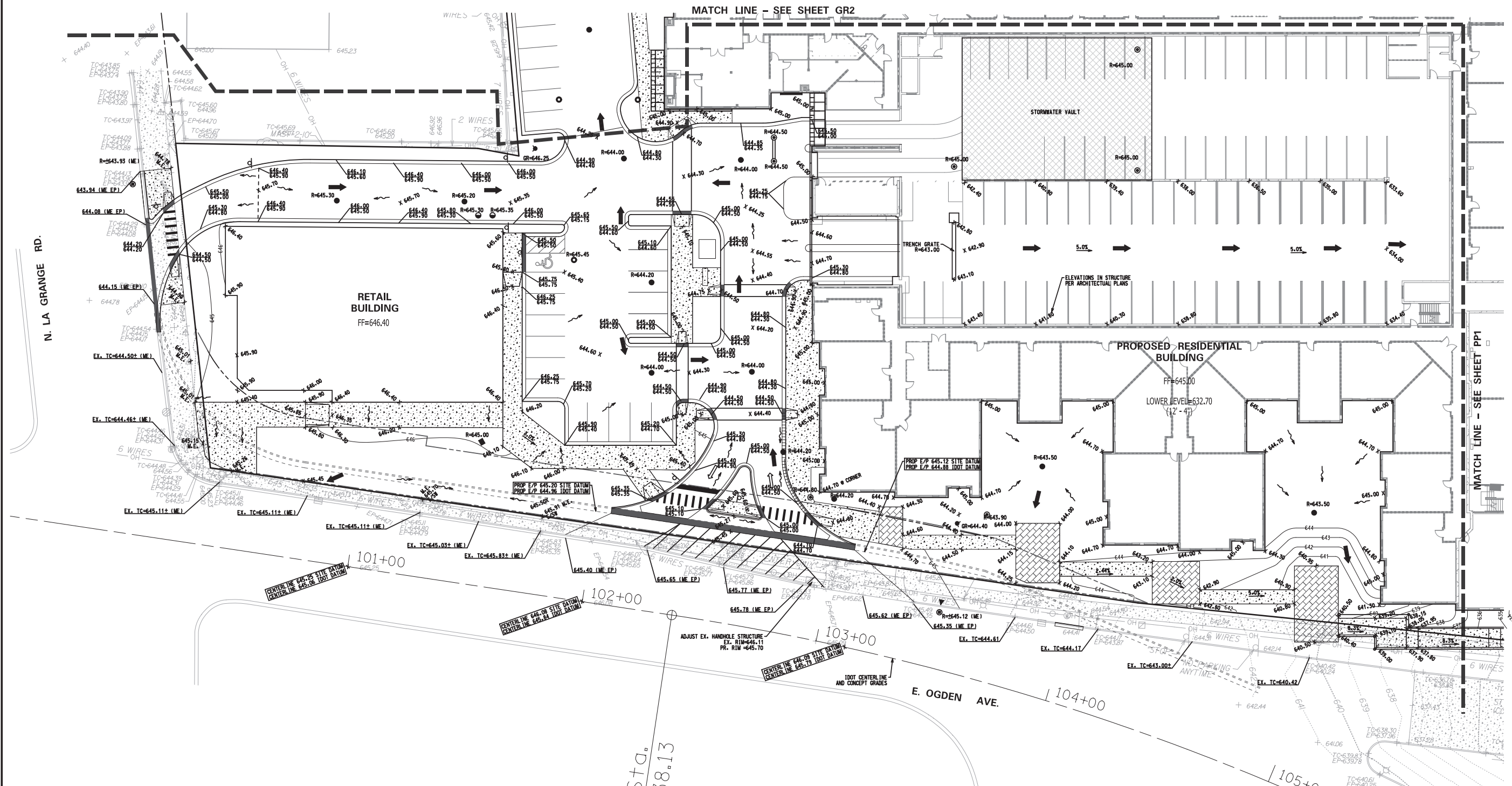
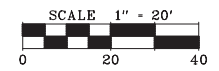
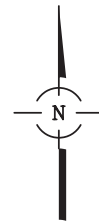
# FOR INFORMATION ONLY

## NOTES:

1. ALL CURB AND GUTTER IS ASSUMED TO BE B6.12.
2. ALL ELEVATIONS ARE FINISHED GRADE.
3. ALL SPOT GRADES ALONG CURB LINE ARE EDGE OF PAVEMENT UNLESS NOTED OTHERWISE.
4. ALL STORM SEWER IS SIZED FOR THE 100-YEAR FLOW AND ASSUMED TO BE R.C.P., CLIV
5. STORMWATER VAULT BELOW PARKING GARAGE TO BE COORDINATED WITH ARCHITECT AND INCORPORATED AS PART OF STRUCTURAL ENGINEERING PLANS.
6. TOPSOIL RESPREAD AND SEEDING SHALL BE REQUIRED FOR ALL PERVIOUS AREAS.
7. ALL OFF-SITE TURF RESTORATION SHALL BE SOD.
8. THE CONTRACTOR WILL BE RESPONSIBLE FOR INSTALLING AND MAINTAINING ALL EROSION CONTROL AND SEDIMENT CONTROL THROUGHOUT CONSTRUCTION INCLUDING ALL REQUIRED MONITORING AND REPORT. EROSION CONTROL ITEMS WILL INCLUDE, BUT ARE NOT LIMITED TO, SILT FENCE, TEMPORARY SEEDING, CONSTRUCTION ENTRANCE, INLET PROTECTION, LINED APRONS, ETC. DESIGN OF INITIAL EROSION CONTROL PLAN TO BE COMPLETED DURING FINAL DESIGN.

## LEGEND

- FF FINISHED FLOOR
- LOCAL DRAINAGE
- EMERGENCY OVERLAND FLOW ROUTE
- LOCAL DRAINAGE DIVIDE
- TOP OF CURB EDGE OF PAVEMENT
- FINISHED GRADE
- CATCH BASIN
- STORM MANHOLE
- SANITARY MANHOLE
- IDOT PROPOSED OGDEN AVE. ELEVATION (NAVD 88) GRADES PROVIDED BY IDOT IN NGVD 29 NAVD = ±0.2' + NGVD



NO.	DATE	REMARKS
5	03/30/15	PER MWRD & OWNER REVISIONS
4	01/14/15	PER VILLAGE REVIEW
3	12/12/14	PER OWNER AND VILLAGE
2	10/21/14	PER PUBLIC WORKS MEETING
1	10/13/14	PER VILLAGE REVIEW

**GRADING PLAN - 1**

**UPTOWN LA GRANGE**  
LA GRANGE, IL

**CONSULTING ENGINEERS**  
**SITE DEVELOPMENT ENGINEERS**  
**LAND SURVEYORS**

9575 W. Higgins Road, Suite 700,  
Rosemont, Illinois 60018  
Phone: (847) 694-4040 Fax: (847) 694-4045



FILENAME: 7982GR01
DATE: 09/26/14
JOB NO. 7982
SHEET <b>GR1</b>
10 OF 26



# FOR INFORMATION ONLY

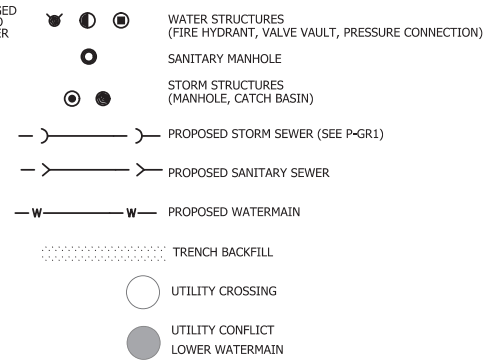
## NOTES:

- ALL STORM SEWERS SHALL BE RCP CL-IV UNLESS NOTED OTHERWISE. ALL STORM SEWER HAS BEEN DESIGNED FOR 100 YEAR STORM EVENT.
- ALL SANITARY SEWERS SHALL BE PVC SDR 26 UNLESS NOTED OTHERWISE.
- ALL WATER MAINS SHALL BE D.I.P.-CLASS 52 UNLESS NOTED OTHERWISE. MEGALUGS AND THRUST BLOCKS ARE REQUIRED FOR ALL WATERMAIN FITTINGS. MINIMUM 5.5' COVER TO THE TOP OF WATERMAIN IS REQUIRED.
- ALL RESTRAINED WATER MAIN JOINTS SHALL BE U.S. PIPE "FIELD LOK" GASKET OR APPROVED EQUAL.
- FRAME AND GRATE/LID FOR STORM SEWER STRUCTURES 1C - MH-NEENAH R-1712 FRAME W/TYPE "B" CLOSED LID 1P - INLET, CB-NEENAH R-2504 W/TYPE "D" GRATE 2P - NEENAH R-3281-A COMBO INL. FRAME, GRATE, CURB BOX 1G - NEENAH R-4340-B BEEHIVE GRATE FOR GRASS AREAS
- IF ANY PROPOSED SANITARY SEWER CROSSES ABOVE A WATERMAIN, SANITARY SEWER SHALL BE CONSTRUCTED OF WM QUALITY PVC (ASTM D-2241) WITH D3139 JOINTS EXTENDING FROM MANHOLE TO MANHOLE.
- ALL PROPOSED STORM SEWER CROSSINGS OVER TO INSTALL O-RING GASKETED JOINTS PER ASTM C-443 REQUIREMENTS.
- DOWNSTREAM STORM SEWERS TO WHICH NEW DRAINAGE STRUCTURES ARE BEING CONNECTED MUST BE CLEANED AND TELEVIEWED, HAVE THEIR CONDITIONS ASSESSED, AND APPROPRIATE REPAIRS MADE.

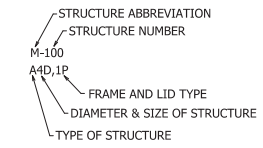
- CONTRACTOR TO VERIFY LOCATION OF ALL EX. UTILITIES PRIOR TO CONSTRUCTION TO VERIFY ANY CONFLICTS WITH THE EXISTING AND PR. WATERMAIN & SANITARY SEWERS. PIPE LOCATIONS WERE ESTIMATED FROM ORIGINAL DESIGN DRAWINGS AND THE FIELD SURVEY OBSERVATIONS AND IS MEANT AS A GUIDE ONLY.
- EXISTING & PROPOSED DRY UTILITIES ARE SHOWN FOR REFERENCE ONLY. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO FIELD VERIFY THE LOCATION OF EXISTING DRY UTILITIES AND TO COORDINATE THE REMOVAL OR ABANDONMENT OF ALL DRY UTILITIES WITH THEIR CORRESPONDING OWNERS.
- ALL FENCING SHOWN ON THE PLANS IS FOR LOCATION AND REFERENCE ONLY. FENCE TYPE AND CONSTRUCTION SPECIFICATIONS ARE BY OTHERS.
- SEE MEP PLANS FOR ALL REQUIRED IMPROVEMENTS TO THE PUMP ROOM AND INTERNAL FIRE PROTECTION PREPARED BY OTHERS. SERVICE LOCATIONS ARE APPROXIMATE AND SHOWN FOR VERIFICATION WITH THE MEP DRAWINGS PRIOR TO CONSTRUCTION.
- DESIGN OF PROPOSED LIGHT POLE TYPES, LOCATIONS, WIRING, AND CIRCUITRY OF LIGHTING WILL BE BY OTHERS.
- ELECTRICAL OVERHEAD TO BE BURIED IS SHOWN FOR REFERENCE ONLY. DESIGN OF CIRCUITRY BY OTHERS.
- NUMBER OF REQUIRED 4" OR 6" CONDUIT TO BE PROVIDED BY COMED. CONDUIT TO BE A MINIMUM OF 36" OF COVER. HAVE ONE AS LABELED ON THE PLANS.

- THE POOL BACKWASH FLOWS SHALL BE DISCHARGED INTO THE SANITARY SEWER SYSTEM. NO FILTER MEDIA SHALL BE DISCHARGED INTO THE SEWERS. THE SWIMMING POOL SHALL BE DRAINED INTO THE SANITARY SYSTEM. THE POOL SHALL NOT BE DRAINED EARLIER THAN 24 HOURS FOLLOWING A RAINFALL.

## LEGEND

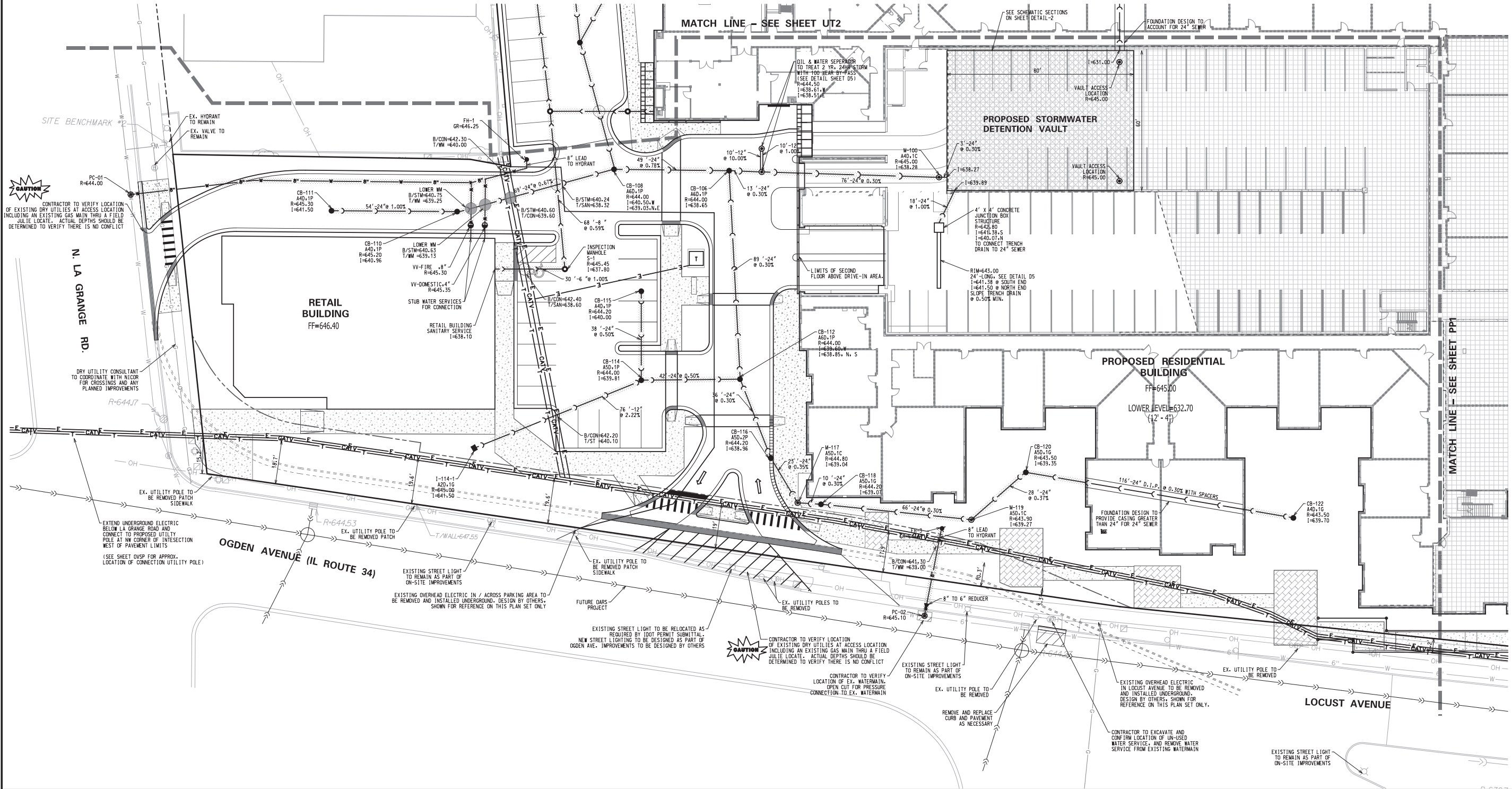
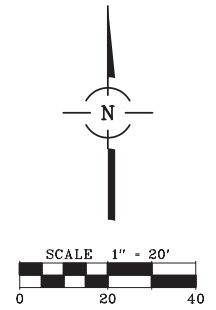


## STORM STRUCTURE LEGEND



## STORM STRUCTURE ABBREVIATIONS

CB = CATCH BASIN  
M = MANHOLE



NO.	DATE	REMARKS
9	07/29/15	PER IDOT, ARCH REVIEW & DRY UTILITY
9	07/29/15	ADD DRY UTILITY INFORMATION
8	06/18/15	PER MWRD REVIEW
6	04/22/15	PER MWRD REVIEW

NO.	DATE	REMARKS
5	03/30/15	PER MWRD & OWNER REVISIONS
4	01/14/15	PER VILLAGE REVIEW
3	12/12/14	PER OWNER AND VILLAGE
2	10/21/14	PER PUBLIC WORKS MEETING
1	10/13/14	PER VILLAGE REVIEW

UTILITY PLAN - 1

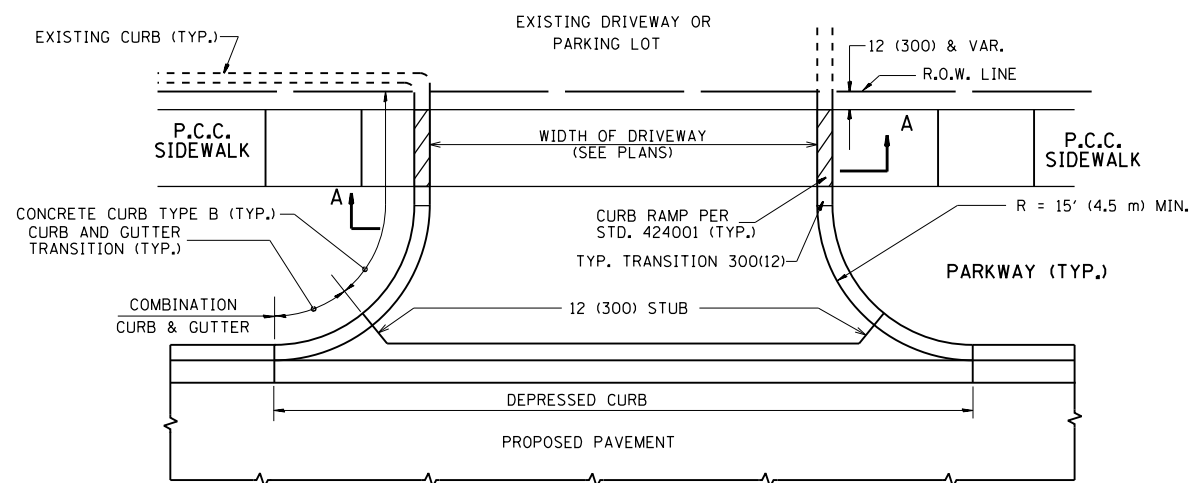
UPTOWN LA GRANGE  
LA GRANGE, IL

CONSULTING ENGINEERS  
SITE DEVELOPMENT ENGINEERS  
LAND SURVEYORS

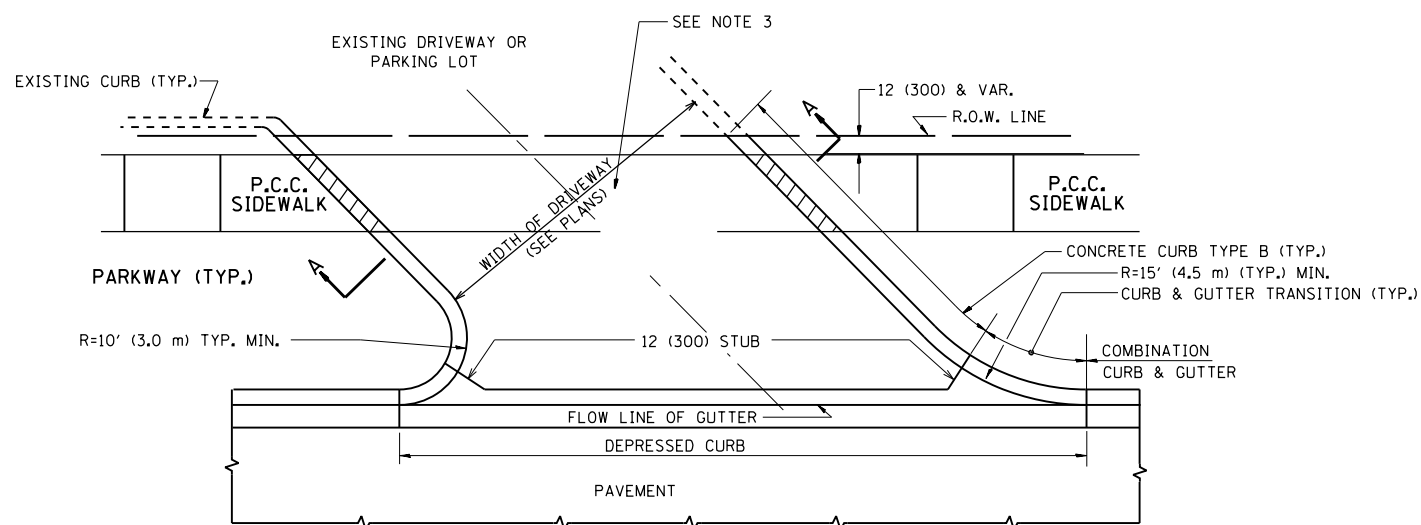
9575 W. Higgins Road, Suite 700,  
Rosemont, Illinois 60018  
Phone: (847) 694-4040 Fax: (847) 694-4045



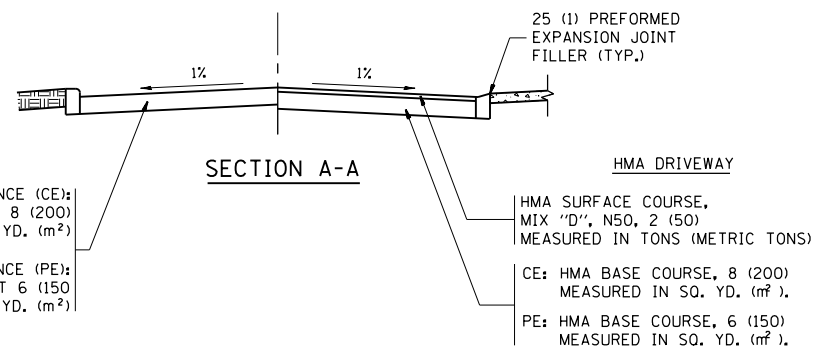
FILENAME: 7982UT01
DATE: 09/26/14
JOB NO. 7982
SHEET UT1 12 OF 26



WITH CONCRETE CURB, TYPE B

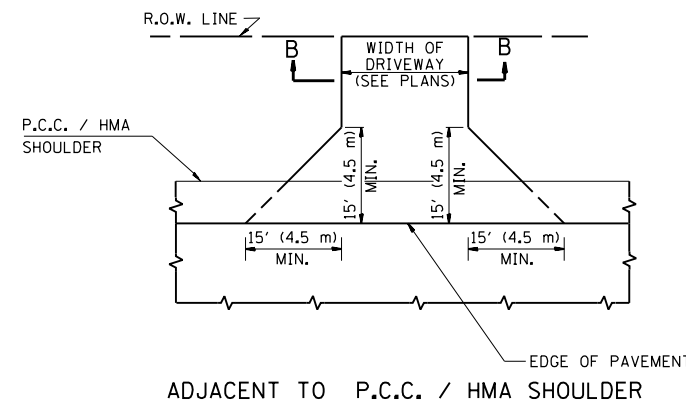


WITH CONCRETE CURB, TYPE B

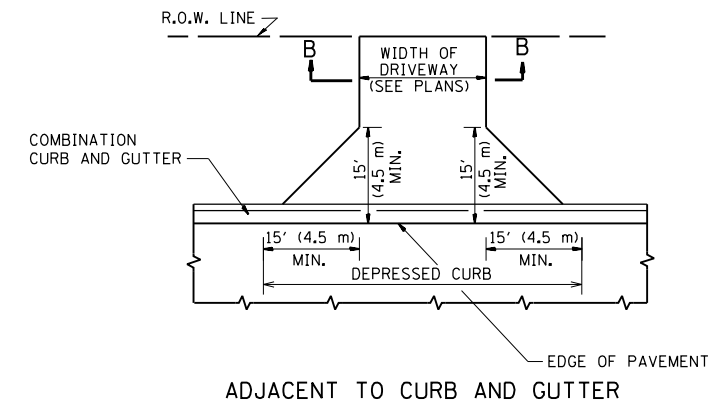


**RIGID DRIVEWAY**  
 COMMERCIAL ENTRANCE (CE):  
 P.C.C. DRIVEWAY PAVEMENT 8 (200)  
 MEASURED IN SQ. YD. (m<sup>2</sup>)  
 NON-COMMERCIAL ENTRANCE (PE):  
 P.C.C. DRIVEWAY PAVEMENT 6 (150)  
 MEASURED IN SQ. YD. (m<sup>2</sup>)

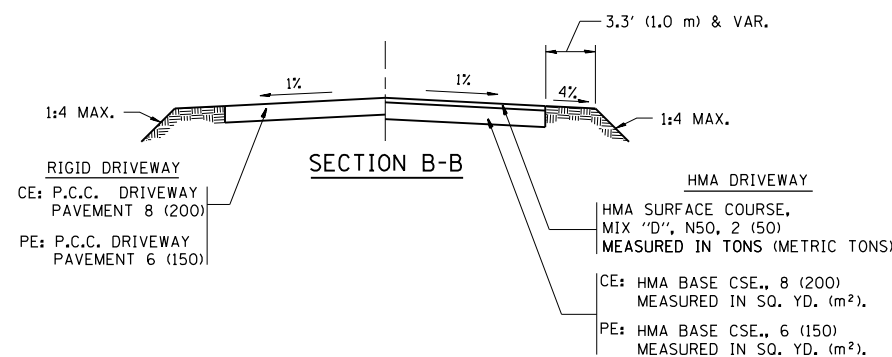
**HMA DRIVEWAY**  
 HMA SURFACE COURSE,  
 MIX "D", N50, 2 (50)  
 MEASURED IN TONS (METRIC TONS)  
 CE: HMA BASE COURSE, 8 (200)  
 MEASURED IN SQ. YD. (m<sup>2</sup>),  
 PE: HMA BASE COURSE, 6 (150)  
 MEASURED IN SQ. YD. (m<sup>2</sup>).



ADJACENT TO P.C.C. / HMA SHOULDER



ADJACENT TO CURB AND GUTTER



**RURAL FIELD ENTRANCE (FE)**  
 HMA SURFACE COURSE,  
 MIX "D", N50, 2 (50)  
 MEASURED IN TONS (METRIC TONS)  
 AGGREGATE BASE CSE., TYPE B, 8 (200)  
 MEASURED IN SQ. YD. (m<sup>2</sup>).

**GENERAL NOTES:**

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

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

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

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

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

WHEN THE P.C.C. SIDEWALK EXTENDS THROUGH THE DRIVEWAY, THE THICKNESS OF THE SIDEWALK IN THE DRIVEWAY AREA SHALL BE THE SAME AS THE DRIVEWAY THICKNESS. SIDEWALK WILL BE PAID FOR AS P.C.C. SIDEWALK OF THE THICKNESS SPECIFIED. SIDEWALK CROSS SLOPE THRU DRIVEWAY AREA TO BE A MAXIMUM OF 1:50.

FILE NAME =	USER NAME = tor1qfm	DESIGNED - R. SHAH	REVISED - P. LaFLUER 04-15-03
pw:\11\084EBIDINTEG.11\inois.gov\PIWIDOT\Documents\DOT Offices\District 1\Projects\PI138\Drawings\Design\DistStd.dgn		CHECKED -	REVISED - R. BORO 01-01-07
PLOT SCALE = 100.0000' / 1"		DATE - 11-04-95	REVISED - R. BORO 06-11-08
PLOT DATE = 11/2/2016			REVISED - R. BORO 09-06-11

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

<b>DRIVEWAY DETAILS - DISTANCE BETWEEN R.O.W.    AND FACE OF CURB &amp; EDGE OF SHOULDER &gt;= 15' (4.5 m)</b>			
SCALE: NONE	SHEET NO. 1 OF 1 SHEETS	STA. TO STA.	

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
330	91Y-N-2	COOK	128	100
<b>BD0156-07 (BD-01)</b>		<b>CONTRACT NO. 62A47</b>		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				