

FOR INDEX OF SHEETS, SEE SHEET NO.

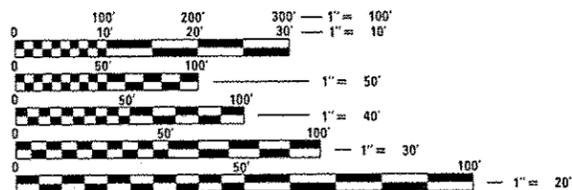
PROJECT IS LOCATED IN:
 THE VILLAGE OF GRAYSLAKE
 THE VILLAGE OF HAINESVILLE
 THE VILLAGE OF LIBERTYVILLE

TRAFFIC DATA

ROUTE SEGMENT	SPEED	ADT(YEAR)
IL 120(BELVIDERE RD)		
IL 134(MAIN ST) TO HAINESVILLE RD	40 MPH	16,400(2015)
HAINESVILLE RD TO ALLEGHANY RD	40 MPH	20,100(2015)
ALLEGHANY RD TO S. LAKE ST	40 MPH	18,000(2015)
S. LAKE ST TO S. SEYMOUR AVE	40,35 MPH	13,500(2015)
S. SEYMOUR AVE TO US 45	35 MPH	17,600(2013)
US 45		
IL 120(BELVIDERE RD) TO WINCHESTER RD	45 MPH	26,700(2015)

August 4, 2016
 GEORGE M. ZIEGLER
 REGISTERED PROFESSIONAL ENGINEER OF ILLINOIS
 ILLINOIS REGISTRATION No. 062-045853
 EXPIRATION DATE: 11/30/17
 APPLIES TO SHEETS: 29, 43-86

CHRISTOPHER B. BURKE ENGINEERING, LTD.
 9575 W. Higgins Road, Suite 600
 Rosemont, Illinois 60018
 (847) 823-0500
 PROFESSIONAL DESIGN FIRM No.: 184-001742
 EXPIRATION DATE: 04-30-2017



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

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

CONTRACT NO. 60W92

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

* 102 + 1 = 103 total pages

F.A.P. R.T.E. 3338344	SECTION 116TS&N-2	COUNTY LAKE ILLINOIS	TOTAL SHEETS 1	SHEET NO. 1
			CONTRACT NO. 60W92	

**PROPOSED
 HIGHWAY PLANS**

FAP 333 /IL 120 (BELVIDERE ROAD)
 IL 134 (MAIN STREET) TO US 45
 FAP 344 /US 45
 IL 120 (BELVIDERE ROAD) TO WINCHESTER ROAD
 SECTION 116TS&N-2
 TRAFFIC SIGNAL MODERNIZATION, INTERCONNECT,
 AND CHANNELIZATION
 PROJECT: ACCM-000V(100)
 LAKE COUNTY



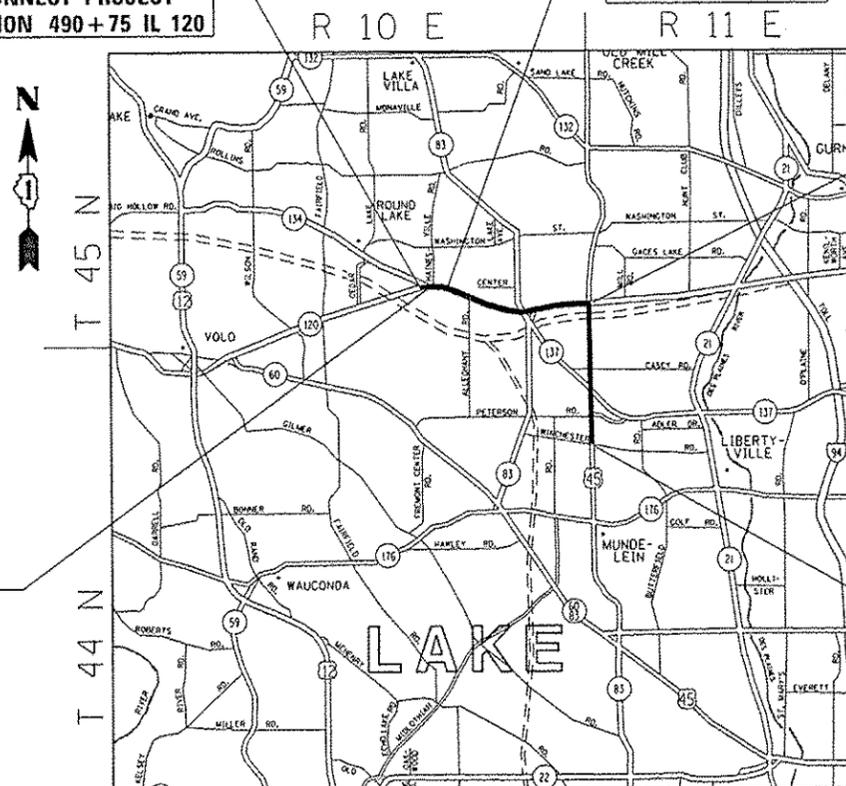
TRAFFIC SIGNAL MODERNIZATION
 AND INTERCONNECT PROJECT
 BEGINS: STATION 490+75 IL 120

CHANNELIZATION
 PROJECT ENDS:
 STATION 507+08

STATION 677+85 IL 120=
 STATION 1020+25 US 45

CHANNELIZATION
 PROJECT BEGINS:
 STATION 499+00

TRAFFIC SIGNAL MODERNIZATION
 AND INTERCONNECT PROJECT
 ENDS: STATION 871+00 US 45



AVON TOWNSHIP WARREN TOWNSHIP
 GROSS AND NET LENGTH = 33635 FT. = 6.4 MILES

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

SUBMITTED October 18, 2016
John Ford
 REGIONAL ENGINEER

Jan 27, 2017
Muhammad M. Addis
 ENGINEER OF DESIGN AND ENVIRONMENT

Jan 27, 2017
David A. Allen
 DIRECTOR OF PROGRAM DEVELOPMENT

PRINTED BY THE AUTHORITY
 OF THE STATE OF ILLINOIS

SUMMARY OF QUANTITIES				IL 120 IL 134	IL 120 HAINESVILLE RD				IL 120 ALLEGHANY RD	IL 120 LAKE ST	IL 120 IL 83	IL 120 ATKINSON RD	IL 120 US 45	INTERCONNECT	EVP	LCDOT PASSAGE NETWORK	PACE BUS PAD
CODE NO	ITEM	UNIT	TOTAL QUANTITIES	CONSTRUCTION TYPE CODE													
				0021 80% FEDERAL 20% STATE	0005 80% FEDERAL 20% STATE	0021 80% FEDERAL 20% HAINESVILLE	0021 80% FEDERAL 10% STATE 5% COUNTY 5% HAINESVILLE	0021 80% FEDERAL 20% HAINESVILLE	0021 80% FEDERAL 20% STATE	0021 100% COUNTY	0021 80% FEDERAL 20% COUNTY	0021 100% PACE					
20101100	TREE TRUNK PROTECTION	EACH	1		1												
20101200	TREE ROOT PRUNING	EACH	1		1												
20101350	TREE PRUNING (OVER 10 INCH DIAMETER)	EACH	1		1												
20200100	EARTH EXCAVATION	CU YD	391		390	1											
20201200	REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL	CU YD	665		499.8	165.2											
20400800	FURNISHED EXCAVATION	CU YD	255		111.3	143.7											
20800150	TRENCH BACKFILL	CU YD	53		51.9	1.1											
21101505	TOPSOIL EXCAVATION AND PLACEMENT	CU YD	280		201.8	78.2											
25000210	SEEDING, CLASS 2A	ACRE	0.37		0.26	0.11											
25000400	NITROGEN FERTILIZER NUTRIENT	POUND	35		25.1	9.9											
25000600	POTASSIUM FERTILIZER NUTRIENT	POUND	35		25.1	9.9											
25100630	EROSION CONTROL BLANKET	SQ YD	1726		1243	483											
28000305	TEMPORARY DITCH CHECKS	FOOT	48		6	42											
28000400	PERIMETER EROSION BARRIER	FOOT	1235		735	500											
28000510	INLET FILTERS	EACH	10		10												
* SPECIALTY ITEMS																	

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SUMMARY OF QUANTITIES			IL 120 e IL 134	IL 120 e HAINESVILLE RD				IL 120 e ALLEGHANY RD	IL 120 e LAKE ST	IL 120 e IL 83	IL 120 e ATKINSON RD	IL 120 e US 45	INTERCONNECT	EVP	LCDOT PASSAGE NETWORK	PAGE BUS PAD
CODE NO	ITEM	UNIT	TOTAL QUANTITIES	CONSTRUCTION TYPE CODE												
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30300112	AGGREGATE SUBGRADE IMPROVEMENT 12"	SO YD	937		937											
35101800	AGGREGATE BASE COURSE, TYPE B 6"	SO YD	522		256			266								
35501308	HOT-MIX ASPHALT BASE COURSE, 6"	SO YD	42		42											
35501315	HOT-MIX ASPHALT BASE COURSE, 7 3/4"	SO YD	625		625											
35600707	HOT-MIX ASPHALT BASE COURSE WIDENING, 7 3/4"	SO YD	44		44											
40600275	BITUMINOUS MATERIALS (PRIME COAT)	POUND	1174		576			598								
40600290	BITUMINOUS MATERIALS (TACK COAT)	POUND	3476		3476											
40600400	MIXTURE FOR CRACKS, JOINTS, AND FLANGEWAYS	TON	7		7											
40600635	LEVELING BINDER (MACHINE METHOD), N70	TON	216		216											
40600982	HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT	SO YD	77		77											
40603335	HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N50	TON	64		34			30								
40603565	POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, MIX "E", N70	TON	504		504											
42001300	PROTECTIVE COAT	SO YD	1141		825	303		13								
42300400	PORTLAND CEMENT CONCRETE DRIVEWAY PAVEMENT, 8 INCH	SO YD	321		321											
14	* SPECIALTY ITEMS															

SUMMARY OF QUANTITIES			IL 120 # IL 134	IL 120 # HAINESVILLE RD					IL 120 # ALLEGHANY RD	IL 120 # LAKE ST	IL 120 # IL 83	IL 120 # ATKINSON RD	IL 120 # US 45	INTERCONNECT	EVP	LCDOT PASSAGE NETWORK	PACE BUS PAD
CODE NO	ITEM	UNIT	TOTAL QUANTITIES	CONSTRUCTION TYPE CODE													
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42400200	PORTLAND CEMENT CONCRETE SIDEWALK 5 INCH	SO FT	4632		1448	2722		112									
42400800	DETECTABLE WARNINGS	SO FT	137		97			40									
44000159	HOT-MIX ASPHALT SURFACE REMOVAL, 2 1/2"	SO YD	4465		4465												
44000200	DRIVEWAY PAVEMENT REMOVAL	SO YD	543		543												
44000500	COMBINATION CURB AND GUTTER REMOVAL	FOOT	30		30												
44000600	SIDEWALK REMOVAL	SO FT	1400		1400												
44004250	PAVED SHOULDER REMOVAL	SO YD	179		179												
44201803	CLASS D PATCHES, TYPE II, 13 INCH	SO YD	74		74												
44201807	CLASS D PATCHES, TYPE III, 13 INCH	SO YD	74		74												
44201809	CLASS D PATCHES, TYPE IV, 13 INCH	SO YD	77		77												
44300200	STRIP REFLECTIVE CRACK CONTROL TREATMENT	FOOT	700		700												
48102100	AGGREGATE WEDGE SHOULDER, TYPE B	TON	28		28												
50105220	PIPE CULVERT REMOVAL	FOOT	60		60												
54213669	PRECAST REINFORCED CONCRETE FLARED END SECTIONS 24"	EACH	2			2											
54247130	GRATING FOR CONCRETE FLARED END SECTION 24"	EACH	2			2											
* SPECIALTY	ITEMS																

FILE NAME =	USER NAME = PencilPL	DESIGNED -	REVISED -
PROJECT =	PROJECT =	CHECKED -	REVISED -
PLT SCALE = 1000000 : 1 in.	PLT DATE = 10/27/2016	DATE -	REVISED -

SUMMARY OF QUANTITIES				IL 120 • IL 134	IL 120 • HAINESVILLE RD				IL 120 • ALLEGHANY RD	IL 120 • LAKE ST	IL 120 • IL 83	IL 120 • ATKINSON RD	IL 120 • US 45	INTERCONNECT	EVP	LCDOT PASSAGE NETWORK	PAGE BUS PAD
CODE NO	ITEM	UNIT	TOTAL QUANTITIES	CONSTRUCTION TYPE CODE													
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* 66900200	NON-SPECIAL WASTE DISPOSAL	CU YD	393	15.5	373									4.5			
* 66900450	SPECIAL WASTE PLANS AND REPORTS	LSUM	1	0.04	0.95									0.01			
* 66900530	SOIL DISPOSAL ANALYSIS	EACH	9	4	2									3			
67000400	ENGINEER'S FIELD OFFICE, TYPE A	CAL MO	9		9												
67100100	MOBILIZATION	LSUM	1		1												
70100310	TRAFFIC CONTROL AND PROTECTION, STANDARD 701421	LSUM	1										0.3	0.7			
70102620	TRAFFIC CONTROL AND PROTECTION, STANDARD 701501	LSUM	1		1												
70102622	TRAFFIC CONTROL AND PROTECTION, STANDARD 701502	LSUM	1		1												
70102635	TRAFFIC CONTROL AND PROTECTION, STANDARD 701701	LSUM	1		1												
70102640	TRAFFIC CONTROL AND PROTECTION, STANDARD 701801	LSUM	1		1												
70300100	SHORT TERM PAVEMENT MARKING	FOOT	2272		2272												
70300150	SHORT TERM PAVEMENT MARKING REMOVAL	SQ FT	757		757												
* SPECIALTY	ITEMS																

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FILE NAME :	USER NAME :	DESIGNED :	REVISED :
Offices/District/Projects/P10409-CAD/Design/P10409-CAD/Design	P10409-CAD/Design		
PLOT SCALE :	CHECKED :	REVISIONS :	
PLOT DATE :	DATE :		

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**IL 120 /US 45 TS MODERNIZATION, INTERCONNECT, AND CHANNELIZATION
SUMMARY OF QUANTITIES**

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3338344	116TS&N-2	LAKE	102	7
FED. ROAD DIST. NO. 1 (ILLINOIS) FED. AID PROJECT			CONTRACT NO. 60W92	

REV

SUMMARY OF QUANTITIES				IL 120 e IL 134	IL 120 e HAINESVILLE RD					IL 120 e ALLEGHANY RD	IL 120 e LAKE ST	IL 120 e IL 83	IL 120 e ATKINSON RD	IL 120 e US 45	INTERCONNECT	EVP	LCDOT PASSAGE NETWORK	PAGE BUS PAD
CODE NO	ITEM	UNIT	TOTAL QUANTITIES	CONSTRUCTION TYPE CODE														
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81400300	DOUBLE HANDHOLE	EACH	2	1			1											
85000200	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	11							1	1	1	1	1	4		2	
86400100	TRANSCEIVER - FIBER OPTIC	EACH	2	1			1											
87300925	ELECTRIC CABLE IN CONDUIT, TRACER, NO. 14 1C	FOOT	19578												19578			
87301215	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C	FOOT	450				450											
87301225	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	3070	610			1062		274	149	99	457	419					
87301245	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	FOOT	2011	1155			856											
87301255	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C	FOOT	2718	1338			1380											
87301305	ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1 PAIR	FOOT	3098	1530			1568											
87301805	ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2 C	FOOT	221	138			83											
87301900	ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C	FOOT	1151	537			614											
87502440	TRAFFIC SIGNAL POST, GALVANIZED STEEL 10 FT.	EACH	1				1											
87502500	TRAFFIC SIGNAL POST, GALVANIZED STEEL 16 FT.	EACH	3	2			1											
* SPECIALTY ITEMS																		

SUMMARY OF QUANTITIES			IL 120 IL 134	IL 120 HAINESVILLE RD				IL 120 ALLEGHANY RD	IL 120 LAKE ST	IL 120 IL 83	IL 120 ATKINSON RD	IL 120 US 45	INTERCONNECT	EVP	LCDOT PASSAGE NETWORK	PAGE BUS PAD
CODE NO	ITEM	UNIT	TOTAL QUANTITIES	CONSTRUCTION TYPE CODE												
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88030070	SIGNAL HEAD, LED, 1-FACE, 4-SECTION, BRACKET MOUNTED	EACH	2	2												
88030080	SIGNAL HEAD, LED, 1-FACE, 4-SECTION, MAST ARM MOUNTED	EACH	2	2												
88030100	SIGNAL HEAD, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED	EACH	6	2		4										
88030110	SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST-ARM MOUNTED	EACH	6	2		4										
88102717	PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER	EACH	4			4										
88200410	TRAFFIC SIGNAL BACKPLATE, LOUVERED, FORMED PLASTIC	EACH	17	9		8										
88500100	INDUCTIVE LOOP DETECTOR	EACH	14	7		7										
88600100	DETECTOR LOOP, TYPE I	FOOT	1600	878		722										
88700200	LIGHT DETECTOR	EACH	5											5		
88700300	LIGHT DETECTOR AMPLIFIER	EACH	2											2		
88800100	PEDESTRIAN PUSH-BUTTON	EACH	4			4										
89000100	TEMPORARY TRAFFIC SIGNAL INSTALLATION	EACH	2	1		1										
* SPECIALTY	ITEMS															

FILE NAME :	USER NAME :	DESIGNED :	REVISED :	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	IL 120 /US 45 TS MODERNIZATION, INTERCONNECT, AND CHANNELIZATION	F.A.P. RTE. :	SECTION :	COUNTY :	TOTAL SHEETS :	SHEET NO. :	
PROJECT :	PROJECT :	CHECKED :	REVISED :			3338344	116TS&N-2	LAKE	102	12	
PLOT SCALE :	PLOT DATE :	DATE :	REVISED :			CONTRACT NO. 60W92					
						SCALE:	SHEET NO. OF SHEETS	STA. TO STA.	FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT		

SUMMARY OF QUANTITIES				IL 120 @ IL 134	IL 120 @ HAINESVILLE RD				IL 120 @ ALLEGHANY RD	IL 120 @ LAKE ST	IL 120 @ IL 83	IL 120 @ ATKINSON RD	IL 120 @ US 45	INTERCONNECT	EVP	LCDOT PASSAGE NETWORK	PACE BUS PAD
CODE NO	ITEM	UNIT	TOTAL QUANTITIES	CONSTRUCTION TYPE CODE													
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89502210	MODIFY EXISTING CONTROLLER CABINET	EACH	2						1		1						
89502375	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	2	1			1										
89502380	REMOVE EXISTING HANDHOLE	EACH	18	9			9										
89502385	REMOVE EXISTING CONCRETE FOUNDATION	EACH	15	7			8										
X0324085	EMERGENCY VEHICLE PRIORITY SYSTEM LINE	FOOT	775												775		
	SENSOR CABLE, NO. 20 3/C																
X0325462	MEDIA CONVERTER	EACH	1											1			
X0327036	BIKE PATH REMOVAL	SQ YD	60		60												
X1400081	FULL-ACTUATED CONTROLLER AND TYPE SUPER P	EACH	2	1			1										
	CABINET (SPECIAL)																
X1400150	SERVICE INSTALLATION, GROUND MOUNTED, METERED	EACH	2	1			1										
X2020110	GRADING AND SHAPING SHOULDERS	UNIT	7		7												
X4021000	TEMPORARY ACCESS (PRIVATE ENTRANCE)	EACH	1		1												
X4022000	TEMPORARY ACCESS (COMMERCIAL ENTRANCE)	EACH	2		2												
* SPECIALTY	ITEMS																

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FILE NAME *	USER NAME * PwcaPL	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	IL 120 /US 45 TS MODERNIZATION, INTERCONNECT, AND CHANNELIZATION SUMMARY OF QUANTITIES	F.A.P. RTE. 9338344	SECTION 116TS&N-2	COUNTY LAKE	TOTAL SHEETS 102	SHEET NO. 13
OFFICE/PROJECT/PROJECT NO./DRAWING NO./DESIGN/DATE	CHECKED -	REVISED -	FED. ROAD DIST. NO. 1			ILLINOIS FED. AID PROJECT				
PLOT SCALE * 1/8" = 1' / In.	CHECKED -	REVISED -	CONTRACT NO. 60W92							
PLOT DATE * 10/27/2016	DATE -	REVISED -	SCALE:			SHEET NO. OF SHEETS STA. TO STA.				

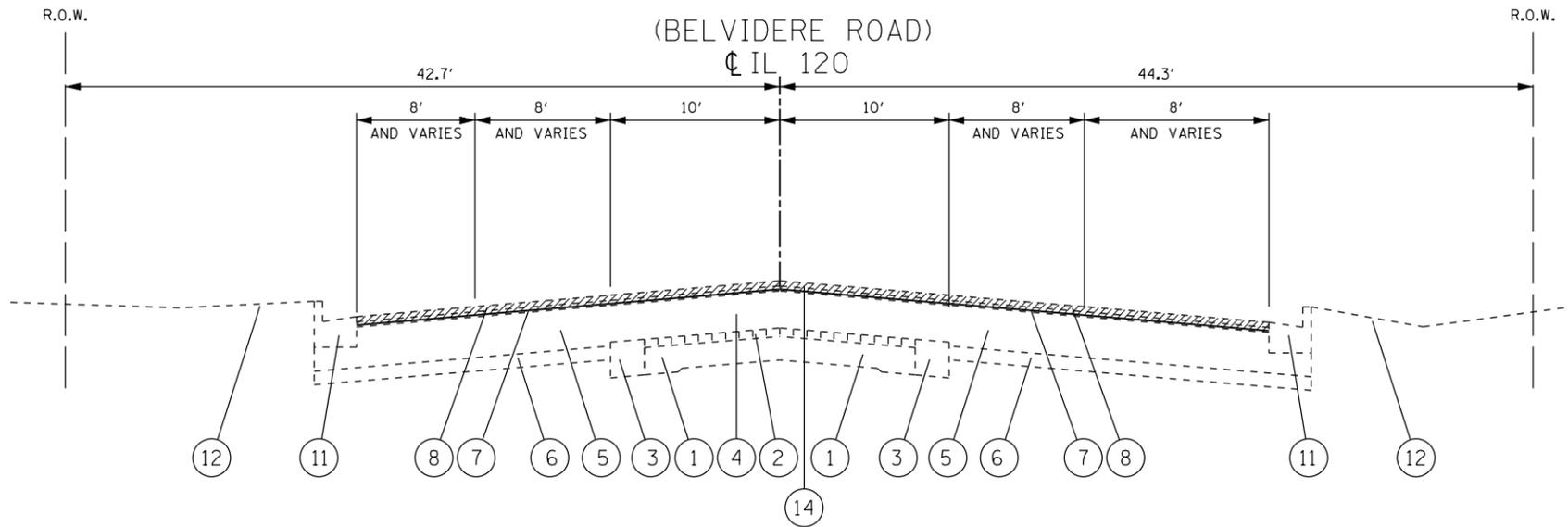
REV

SUMMARY OF QUANTITIES				IL 120 • IL 134	IL 120 • HAINESVILLE RD					IL 120 • ALLEGHANY RD	IL 120 • LAKE ST	IL 120 • IL 83	IL 120 • ATKINSON RD	IL 120 • US 45	INTERCONNECT	EVP	LCDOT PASSAGE NETWORK	PAGE BUS PAD
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X6061311	CONCRETE MEDIAN SURFACE, 5 INCH	SQ FT	200		200													
X7030005	TEMPORARY PAVEMENT MARKING REMOVAL	SQ FT	2689		2689													
X8100105	CONDUIT SPLICE	EACH	2												2			
X8210402	LUMINAIRE MOUNTING BRACKET - 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	19734												19734			
X8730571	ELECTRIC CABLE IN CONDUIT, COAXIAL	FOOT	1818	184			236		274	149	99	457	419					
X8730800	ELECTRIC CABLE IN CONDUIT, VIDEO, NO. 20 4 C	FOOT	1818	184			236		274	149	99	457	419					
X1400215	REMOTE CONTROLLED VIDEO SYSTEM	EACH	7	1			1		1	1	1	1	1					
X1400216	LAYER II (DATA LINK) SWITCH	EACH	6	1			1		1	1	1	1						
X1400217	TERMINATE FIBER IN CABINET	EACH	6														6	
X1400218	FIBER OPTIC CABLE IN CONDUIT, 24 SINGLE MODE	FOOT	9881												9881			
X1400219	SPLICE FIBER IN CABINET	EACH	42														42	
X1400220	VIDEO ENCODER	EACH	7	1			1		1	1	1	1	1					
X1400221	UPGRADE EXISTING CONTROLLER TO NTCIP SPECIAL	EACH	4						1	1	1	1						
X1400102	OUTDOOR RATED NETWORK CABLE	FOOT	525				142		209		99		75					
* SPECIALTY ITEMS																		

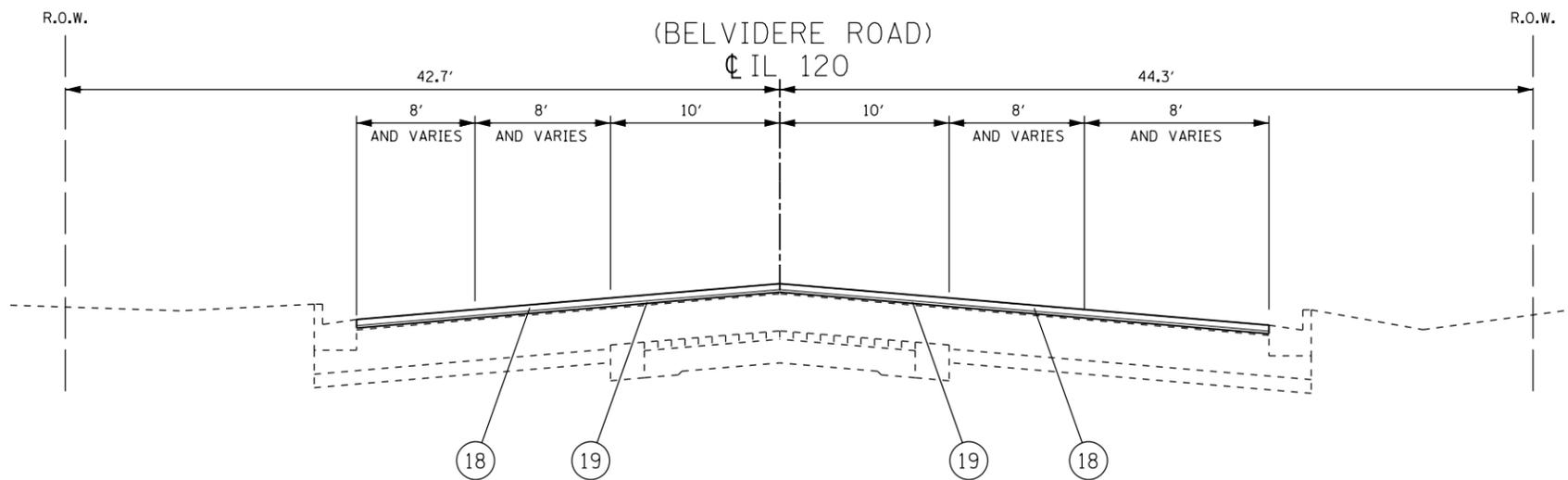
FILE NAME =	USER NAME =	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	IL 120 /US 45 TS MODERNIZATION, INTERCONNECT, AND CHANNELIZATION SUMMARY OF QUANTITIES	F.A.P. RTE. 3338.344	SECTION 116TS&N-2	COUNTY LAKE	TOTAL SHEETS 102	SHEET NO. 14		
OFFICE: District 1 Project: P170402-CAD/Design/P170402-01	DESIGNED BY: [Signature]	REVISIONS:	DATE: 10/27/2016			SCALE:	SHEET NO. OF SHEETS STA. TO STA.	FED. ROAD DIST. NO. 1 (ILLINOIS) FED. AID PROJECT CONTRACT NO. 60W92				
PLLOT SCALE = 1/8" = 1'	CHECKED -	REVISIONS:	DATE:									
PLLOT DATE = 10/27/2016	DATE:	REVISIONS:	DATE:									

Rev

SUMMARY OF QUANTITIES			IL 120 • IL 134	IL 120 • HAINESVILLE RD					IL 120 • ALLEGHANY RD	IL 120 • LAKE ST	IL 120 • IL 83	IL 120 • ATKINSON RD	IL 120 • US 45	INTERCONNECT	EVP	LCDOT PASSAGE NETWORK	PAGE BUS PAD
CODE NO.	ITEM	UNIT	TOTAL QUANTITIES	CONSTRUCTION TYPE CODE													
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X1900222	BLUETOOTH DETECTOR	EACH	4				1		1			1					
Z0004562	COMBINATION CONCRETE CURB AND GUTTER REMOVAL AND REPLACEMENT	FOOT	62		62												
Z0010688	CAMERA MOUNTING ASSEMBLY	EACH	2						1						1		
Z0013798	CONSTRUCTION LAYOUT	LSUM	1		1												
△ Z0018500	DRAINAGE STRUCTURES TO BE CLEANED	EACH	1		1												
Z0030850	TEMPORARY INFORMATION SIGNING	SO FT	51.4		51.4												
Z0033056	OPTIMIZE TRAFFIC SIGNAL SYSTEM	EACH	1											1			
Z0056612	STORM SEWER (WATER MAIN REQUIREMENTS) 18 INCH	FOOT	75		75												
Z0073510	TEMPORARY TRAFFIC SIGNAL TIMING	EACH	2	1			1										
Z0076600	TRAINees	Hour	500	500													
Z0076604	TRAINees - TRAINING PROGRAM GRADUATE	Hour	500	500													
△ *	NON-PARTICIPATING (100% STATE) SPECIALTY ITEMS																
0042																	



EXISTING TYPICAL ROADWAY SECTION
STA. 499+00 TO STA. 500+00

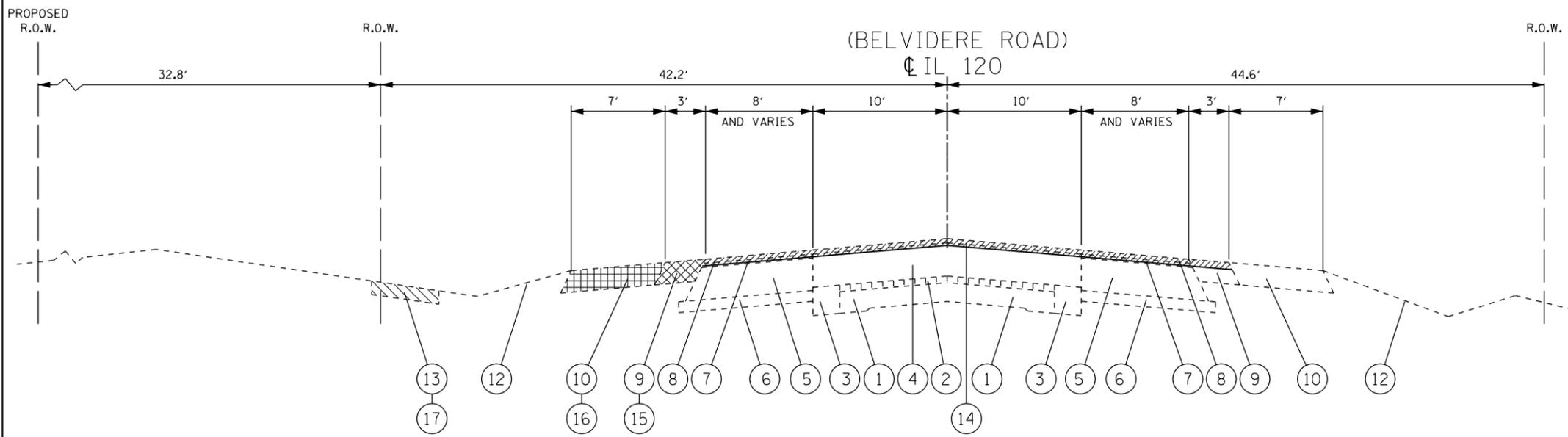


PROPOSED TYPICAL ROADWAY SECTION
STA. 499+00 TO STA. 500+00

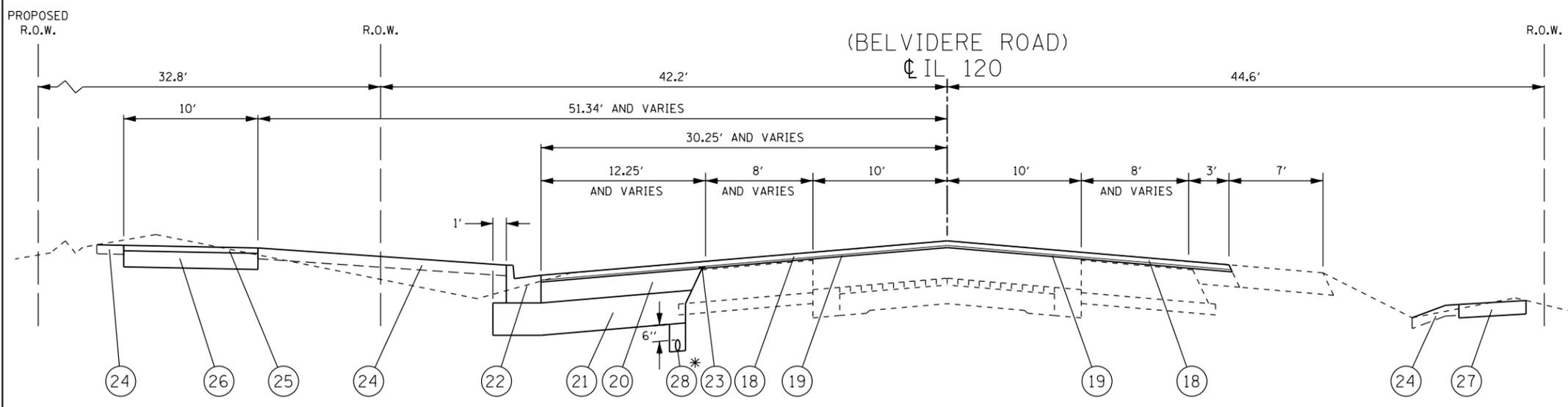
LEGEND:

- ① EXISTING PCC PAVEMENT, 7"-8"±
- ② EXISTING PAVING BRICK, 2½"±
- ③ EXISTING PCC BASE WIDENING, 10½"±
- ④ EXISTING HMA PAVEMENT, VARIES 4⅝"-6⅞"±
- ⑤ EXISTING HMA BASE COURSE, 12"±
- ⑥ EXISTING SUB-BASE GRANULAR MATERIAL TYPE B, 4"±
- ⑦ EXISTING HMA BINDER COURSE, 1½"±
- ⑧ EXISTING HMA SURFACE COURSE, 1½"±
- ⑨ EXISTING HMA SHOULDER, 8"±
- ⑩ EXISTING AGGREGATE SHOULDER, 8"
- ⑪ EXISTING COMBINATION CONCRETE CURB AND GUTTER
- ⑫ EXISTING TOPSOIL AND GRASS
- ⑬ EXISTING PCC SIDEWALK
- ⑭ PROPOSED HOT-MIX ASPHALT SURFACE REMOVAL, 2½"
- ⑮ PROPOSED PAVED SHOULDER REMOVAL
- ⑯ PROPOSED AGGREGATE SHOULDER REMOVAL (PAID FOR AS "REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL")
- ⑰ PROPOSED SIDEWALK REMOVAL
- ⑱ PROPOSED POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, MIX "E", N70 (IL 9.5MM), 1¾"
- ⑲ PROPOSED LEVELING BINDER (MACHINE METHOD), N70, ¾"
- ⑳ FOR WIDTHS 6 FEET OR LESS, USE PROPOSED HOT-MIX ASPHALT BASE COURSE WIDENING, 7¾"
- ㉑ FOR WIDTHS GREATER THAN 6 FEET, USE PROPOSED HOT-MIX ASPHALT BASE COURSE, 7¾"
- ㉒ PROPOSED AGGREGATE SUBGRADE IMPROVEMENT, 12"
- ㉓ PROPOSED COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.24
- ㉔ PROPOSED STRIP REFLECTIVE CRACK CONTROL TREATMENT
- ㉕ PROPOSED TOPSOIL, SEED, FERTILIZER AND EROSION CONTROL BLANKET
- ㉖ PROPOSED HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N50 (IL 9.5MM), 2"
- ㉗ PROPOSED AGGREGATE BASE COURSE, TYPE B, 6"
- ㉘ PROPOSED PORTLAND CEMENT CONCRETE SIDEWALK, 5"

FILE NAME =	USER NAME = PencePL	DESIGNED - PLP	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	IL 120 / US 45 TS MODERNIZATION, INTERCONNECT, AND CHANNELIZATION EXISTING AND PROPOSED TYPICAL SECTIONS	F.A.P. RFE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
pw\IL084EBIDINTEG\Illinois.gov\PWIDOT\Documents\IDOT Offices\District 1\Projects\PI704\DRAN\084EBIDINTEG\sh-typical.dgn		REVISIONS				3338344	116TS&N-2	LAKE	102	16	
PLOT SCALE = 100.0000' / 1"	CHECKED -	REVISIONS				CONTRACT NO. 60W92					
Default	PLOT DATE = 10/27/2016	DATE -	REVISIONS			SCALE:	SHEET	OF	SHEETS	STA.	TO



EXISTING TYPICAL ROADWAY SECTION
STA. 500+00 TO STA. 507+08



PROPOSED TYPICAL ROADWAY SECTION
STA. 500+00 TO STA. 507+08

LEGEND:

- ① EXISTING PCC PAVEMENT, 7"-8"±
- ② EXISTING PAVING BRICK, 2½"±
- ③ EXISTING PCC BASE WIDENING, 10½"±
- ④ EXISTING HMA PAVEMENT, VARIES 4⅝"-6⅞"±
- ⑤ EXISTING HMA BASE COURSE, 12"±
- ⑥ EXISTING SUB-BASE GRANULAR MATERIAL TYPE B, 4"±
- ⑦ EXISTING HMA BINDER COURSE, 1½"±
- ⑧ EXISTING HMA SURFACE COURSE, 1½"±
- ⑨ EXISTING HMA SHOULDER, 8"±
- ⑩ EXISTING AGGREGATE SHOULDER, 8"
- ⑪ EXISTING COMBINATION CONCRETE CURB AND GUTTER
- ⑫ EXISTING TOPSOIL AND GRASS
- ⑬ EXISTING PCC SIDEWALK
- ⑭ PROPOSED HOT-MIX ASPHALT SURFACE REMOVAL, 2½"
- ⑮ PROPOSED PAVED SHOULDER REMOVAL
- ⑯ PROPOSED AGGREGATE SHOULDER REMOVAL (PAID FOR AS "REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL")
- ⑰ PROPOSED SIDEWALK REMOVAL
- ⑱ PROPOSED POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, MIX "E", N70 (IL 9.5MM), 1¾"
- ⑲ PROPOSED LEVELING BINDER (MACHINE METHOD), N70, ¾"
- ⑳ FOR WIDTHS 6 FEET OR LESS, USE PROPOSED HOT-MIX ASPHALT BASE COURSE WIDENING, 7¾"
- ㉑ FOR WIDTHS GREATER THAN 6 FEET, USE PROPOSED HOT-MIX ASPHALT BASE COURSE, 7¾"
- ㉒ PROPOSED AGGREGATE SUBGRADE IMPROVEMENT, 12"
- ㉓ PROPOSED COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.24
- ㉔ PROPOSED STRIP REFLECTIVE CRACK CONTROL TREATMENT
- ㉕ PROPOSED TOPSOIL, SEED, FERTILIZER AND EROSION CONTROL BLANKET
- ㉖ PROPOSED HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N50 (IL 9.5MM), 2"
- ㉗ PROPOSED AGGREGATE BASE COURSE, TYPE B, 6"
- ㉘ PROPOSED PORTLAND CEMENT CONCRETE SIDEWALK, 5"
- ㉙ PROPOSED PIPE UNDERDRAINS, TYPE 2, 4"

* PIPE UNDERDRAINS TYPE 2 SHALL BE INSTALLED ACCORDING TO SECTION 601 OF THE "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION" LATEST VERSION, AND STANDARD 601001 - PIPE UNDERDRAINS. TOP OF PIPE UNDERDRAINS SHALL BE PLACED 6" MIN. BELOW THE SUBGRADE OR UNDERCUT. CONNECTIONS OF THE PIPE UNDERDRAINS TO DRAINAGE STRUCTURES SHALL BE INCLUDED IN THE COST OF THE PIPE UNDERDRAINS.

FILE NAME =	USER NAME = PencePL	DESIGNED - PLP	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	IL 120 / US 45 TS MODERNIZATION, INTERCONNECT, AND CHANNELIZATION EXISTING AND PROPOSED TYPICAL SECTIONS	F.A.P. R.E. = 3338344	SECTION = 116TS&N-2	COUNTY = LAKE	TOTAL SHEETS = 102	SHEET NO. = 17		
Default	PLOT SCALE = 100.0000' / 1" =	CHECKED -	REVISED -			SCALE:	SHEET OF SHEETS	STA. TO STA.	ILLINOIS FED. AID PROJECT			
	PLOT DATE = 10/27/2016	DATE -	REVISED -									
CONTRACT NO. 60W92												

1	2	3	4	5	6	7
IL 120 (BELVIDERE ROAD) AT HAINESVILLE ROAD	EARTH EXCAVATION (CU YD)	EMBANKMENT (CU YD)	ADJUSTMENT FOR SHRINKAGE (CU YD)	EARTHWORK BALANCE WASTE (+) OR SHORTAGE (-) (CU YD)	UNSUITABLE MATERIAL (CU YD)	TOPSOIL EXCAVATION AND PLACEMENT (CU YD)
IL 120 (BELVIDERE ROAD)						
STA. 500+73 LT TO STA. 507+00 LT	364	406.7	310	-96.7	432	170
STA. 500+28 RT TO STA. 505+75 RT	1	161.7	0.85	-160.85	185.5	86
HAINESVILLE ROAD						
STA. 200+33 LT TO STA. 200+57 LT	1	1.3	0.85	-0.45	16.0	3
STA. 200+15 RT TO STA. 201+08 RT	25	18.3	21.3	3.0	31.5	21
TOTAL	391	588	333	-255	665	280

COLUMN 1: LOCATION FROM PLANS
COLUMN 2: CUT QUANTITIES FROM CROSS SECTIONS, WHICH DOES NOT INCLUDE UNSUITABLE MATERIAL
COLUMN 3: QUANTITIES FROM CROSS SECTIONS (FILL)
COLUMN 4: EARTH EXCAVATION THAT IS TO BE USED AS FILL FILL MATERIAL IN THE EMBANKMENT, SHRINKAGE FACTOR IS 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
COLUMN 7: TOPSOIL EXCAVATION AND PLACEMENT = AREA OF SOD AND TOPSOIL

NOTES:

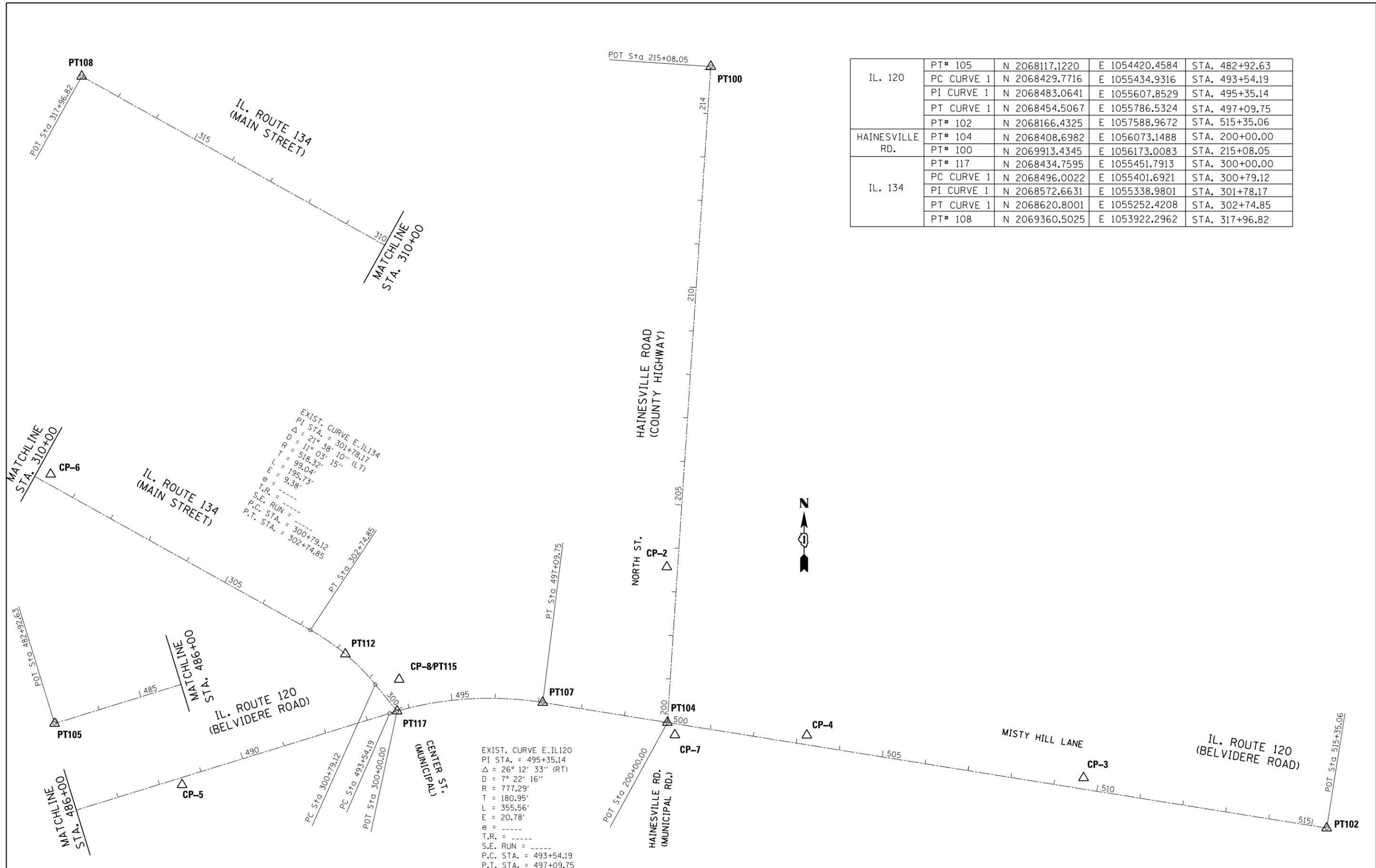
1. TOPSOIL SHALL BE EXCAVATED TO A DEPTH OF 12" THROUGHOUT THE PROJECT LIMITS.
2. EXCAVATED TOPSOIL REQUIRED AT LOCATIONS OF NEW SEEDING AREAS AS SHOWN ON THE LANDSCAPING PLAN SHALL BE PLACED AT A DEPTH OF 6" AND PAID FOR AS TOPSOIL EXCAVATION AND PLACEMENT.
3. EXCAVATED TOPSOIL NOT REQUIRED ON THE PROJECT SHALL BE CONSIDERED UNSUITABLE MATERIAL AND PAID FOR AS REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL.

NOTE: CONTRACTOR SHALL MILL BEFORE PATCHING

HOT-MIX ASPHALT MIXTURE REQUIREMENTS		QUALITY MANAGE- MENT PROGRAM (QMP)
MIXTURE TYPE	AIR VOIDS(%) @ N _{DES.}	
PAVEMENT RESURFACING		
POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, MIX "E", N70 (IL 9.5 mm), 1 3/4"	4% @ 70 GYR	QC/QA
LEVELING BINDER (MACHINE METHOD), N70, (IL 9.5 mm), 3/4"	4% @ 70 GYR	QC/QA
PATCHING		
CLASS D PATCH (HMA BINDER IL-19 mm), 13"	4% @ 70 GYR	QC/QA
DRIVEWAYS		
HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N50 (IL 9.5 mm), 2"	4% @ 50 GYR	QC/QA
HMA BASE COURSE (HMA BINDER IL-19 mm), PE - 6"	4% @ 50 GYR	QC/QA
PAVEMENT WIDENING		
POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, MIX "E", N70 (IL 9.5 mm), 1 3/4"	4% @ 70 GYR	QC/QA
LEVELING BINDER (MACHINE METHOD), N70, (IL 9.5 mm), 3/4"	4% @ 70 GYR	QC/QA
HMA BASE COURSE (HMA BINDER IL-19 mm), 7 3/4"	4% @ 70 GYR	QC/QA
HMA BASE COURSE WIDENING (HMA BINDER IL-19 mm), 7 3/4"	4% @ 70 GYR	QC/QA
HOT MIX ASPHALT MULTI-USE PATH		
HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N50 (IL 9.5 mm), 2"	4% @ 50 GYR	QC/QA
QMP DESIGNATION: QUALITY CONTROL FOR PERFORMANCE(QCP) QUALITY CONTROL/QUALITY ASSURANCE(QA/QC)		

THE UNIT WEIGHT USED TO CALCULATE ALL HMA SURFACE MIXTURE QUANTITIES IS 112 LBS/SQ YD/IN.

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



IL. 120	PT# 105	N 2068117.1220	E 1054420.4584	STA. 482+92.63
	PC CURVE 1	N 2068429.7716	E 1055434.9316	STA. 493+54.19
	PI CURVE 1	N 2068483.0641	E 1055607.8529	STA. 495+35.14
	PT CURVE 1	N 2068454.5067	E 1055786.5324	STA. 497+09.75
HAINESVILLE RD.	PT# 102	N 2068166.4325	E 1057588.9672	STA. 515+35.06
	PT# 104	N 2068408.6982	E 1056073.1488	STA. 200+00.00
IL. 134	PT# 100	N 2069913.4345	E 1056173.0083	STA. 215+08.05
	PT# 117	N 2068434.7595	E 1055451.7913	STA. 300+00.00
	PC CURVE 1	N 2068496.0022	E 1055401.6921	STA. 300+79.12
	PI CURVE 1	N 2068572.6631	E 1055338.9801	STA. 301+78.17
	PT CURVE 1	N 2068620.8001	E 1055252.4208	STA. 302+74.85
	PT# 108	N 2069360.5025	E 1053922.2962	STA. 317+96.82

FILE NAME =	USER NAME = PencePL	DESIGNED -	REVISED -
p:\IL\084EBIDINTEG\Illinois.gov\PWIDOT\Documents\IDOT Offices\District 1\Projects\PI704\DRAWING\CAD\Sheets\PI70409-sht-ATB.dwg		CHECKED -	REVISED -
Default	PLOT DATE = 10/27/2016	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

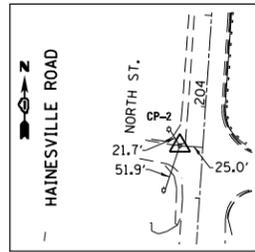
**ALIGNMENT, TIES AND BENCHMARKS
IL 120 / US 45 CHANNELIZATION, TS MODERNIZATION AND INTERCONNECT**

SCALE: 1"=100' SHEET OF SHEETS STA. TO STA.

F.A.P. RTE. 3338344	SECTION 116TS&N-2	COUNTY LAKE	TOTAL SHEETS 102	SHEET NO. 19
ILLINOIS FED. AID PROJECT			CONTRACT NO. 60W92	

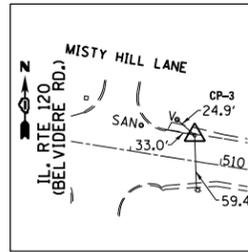
CONTROL POINT #2

SET "MAG" NAIL
 STA. 203+55.9
 N= 2068765.4593
 E= 1056071.8482



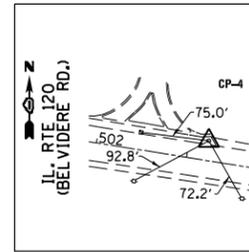
CONTROL POINT #3

SET "MAG" NAIL
 STA. 509+64.86
 N= 2068281.7622
 E= 1057029.9586



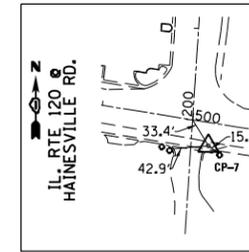
CONTROL POINT #4

SET "MAG" NAIL
 STA. 503+21.72
 N= 2068378.5275
 E= 1056394.1232



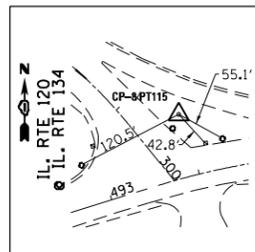
CONTROL POINT #7

SET "MAG" NAIL
 STA. 500+21.47
 N= 2068379.9880
 E= 1056090.3047



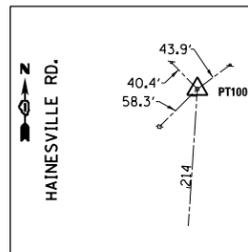
CONTROL POINT #8/PT115

SET "MAG" NAIL
 STA. 300+53.17
 N= 2068507.3751
 E= 1055456.5885



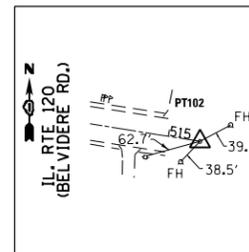
POINT #100

SET "MAG" NAIL
 STA. 215+08.05
 N= 2069913.4345
 E= 1056173.0083



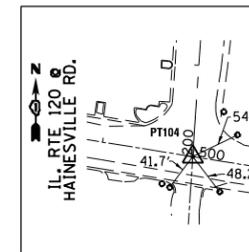
POINT #102

SET "MAG" NAIL
 STA. 515+35.06
 N= 2068166.4325
 E= 1057588.9672



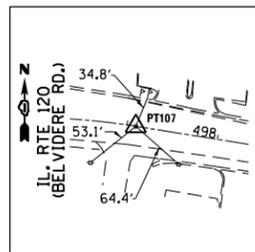
POINT #104

SET "MAG" NAIL
 STA. 0 - 0
 N= 2068408.6982
 E= 1056073.1488



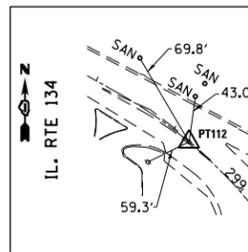
POINT #107

SET "MAG" NAIL
 STA. 497+09.75
 N= 2068454.5067
 E= 1055786.5324



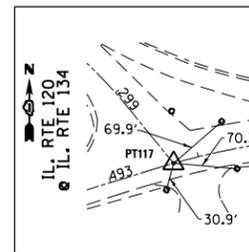
POINT #112

SET "MAG" NAIL
 STA. 301+78.17
 N= 2068566.2492
 E= 1055332.0282



POINT #117

SET "MAG" NAIL
 STA. 0 - 0
 N= 2068434.7595
 E= 1055451.7913



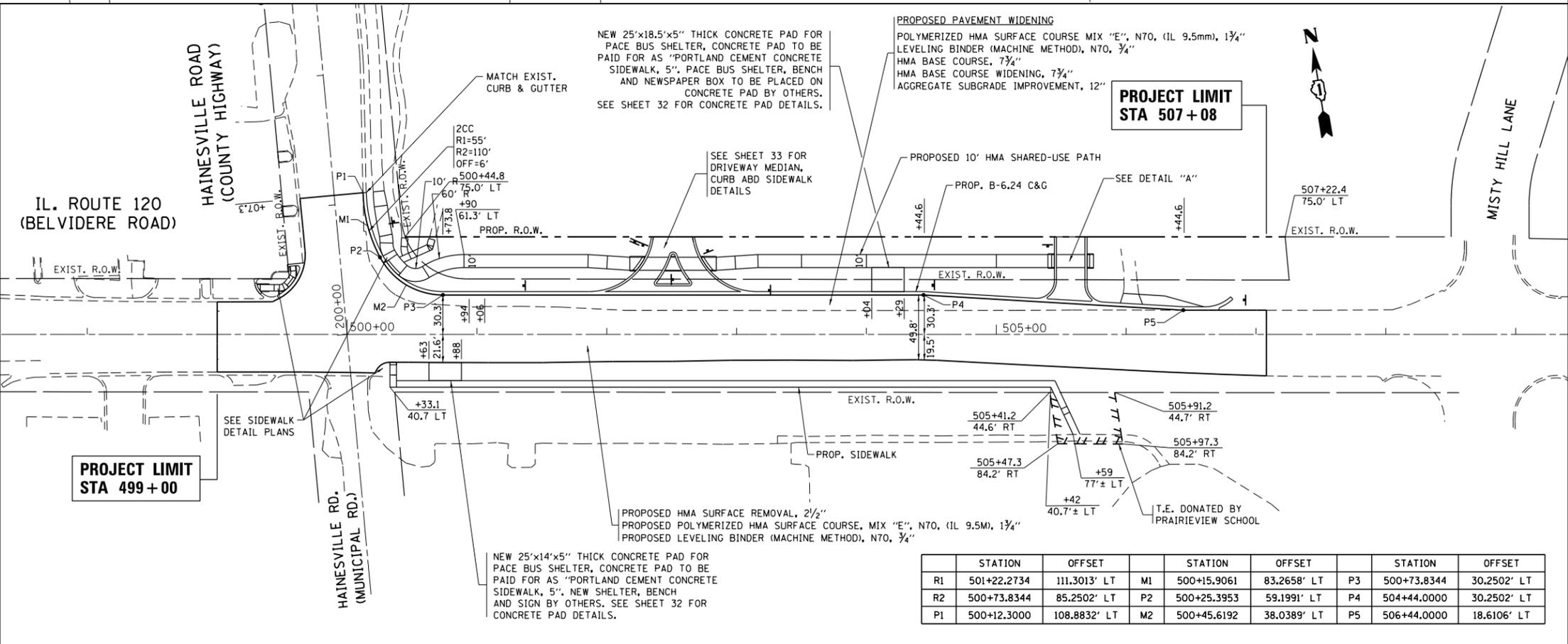
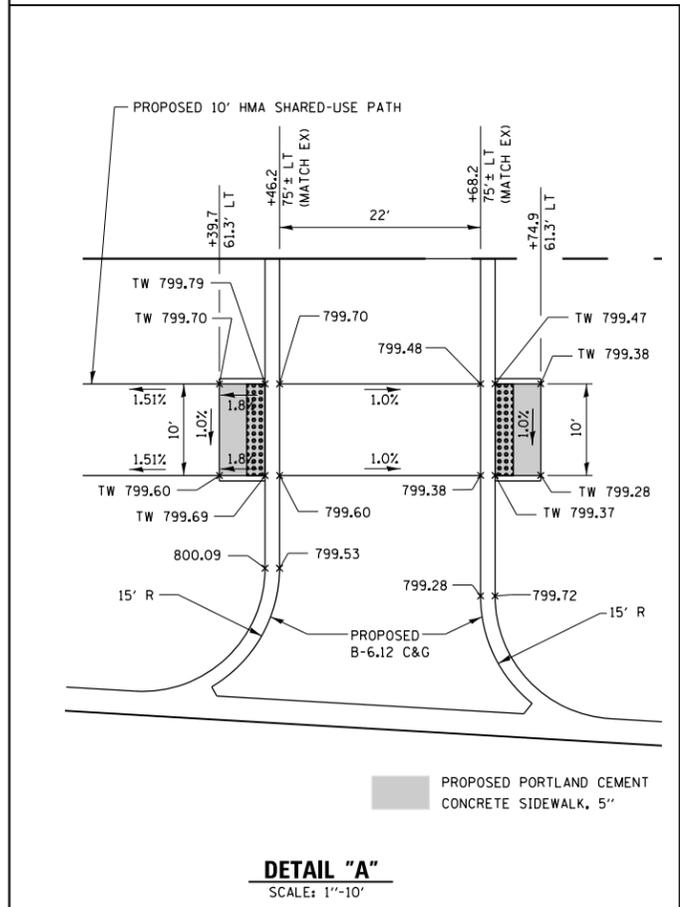
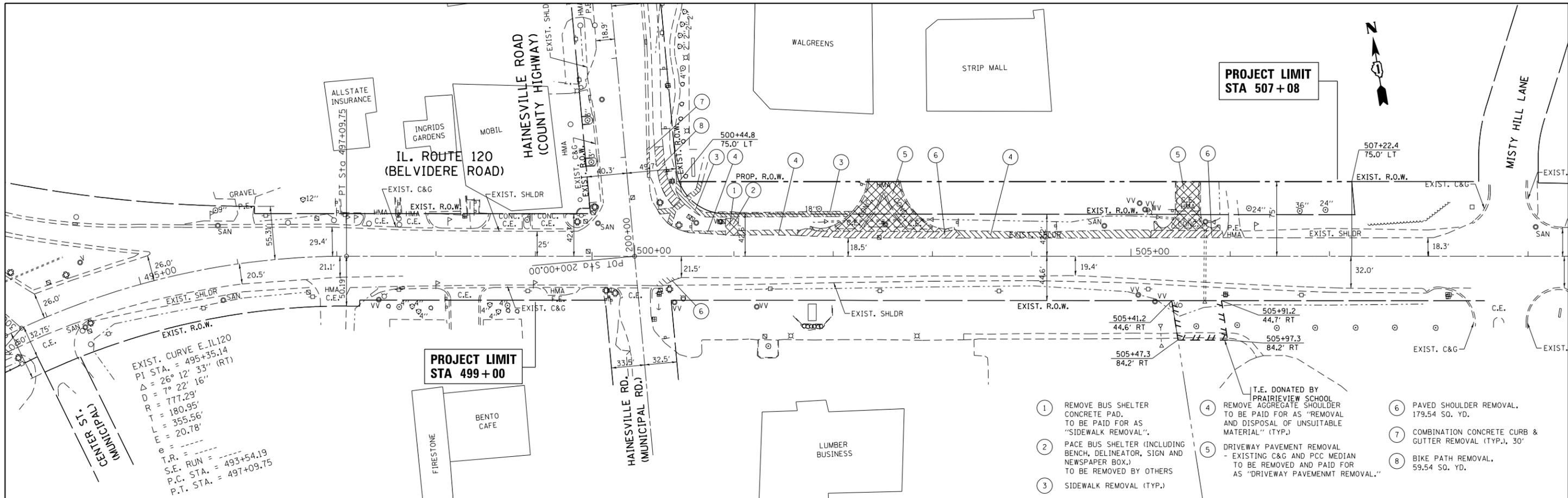
BENCHMARK #1

ELEV. 797.37
 □ - CUT IN NW CORNER CONC. BASE OF PRAIRIE VIEW SCHOOL SIGN
 STA. 509+30/56' (R)

BENCHMARK #2

ELEV. 802.27
 □ - CUT WEST CORNER OF CONC. BASE OF DBL HANDHOLD
 STA. 500+53/38' (L)

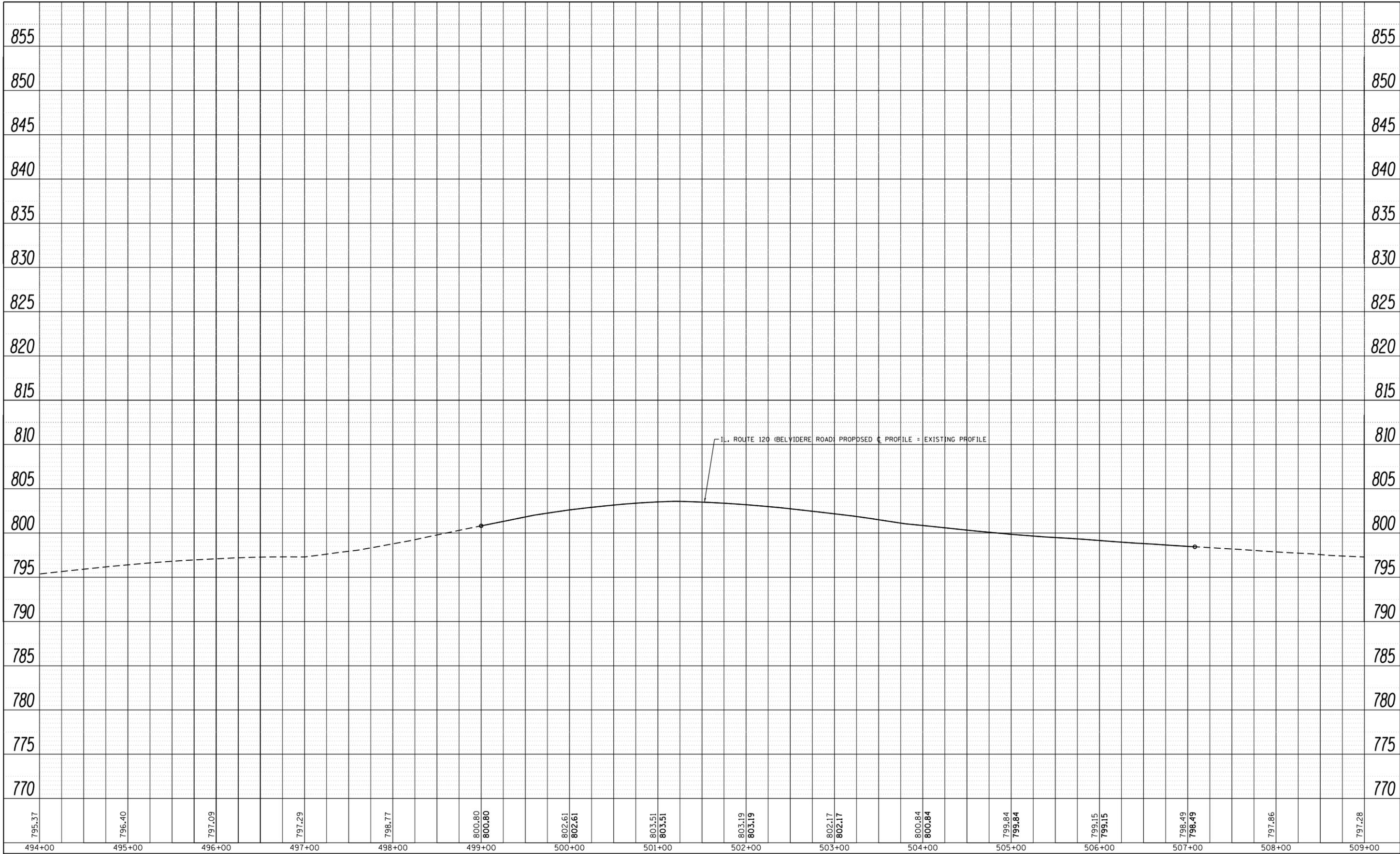
FILE NAME =	USER NAME = PencePL	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	ALIGNMENT, TIES AND BENCHMARKS			F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
pw\IL084EBIDINTEG.illinois.gov\PIWIDOT\Documents\IDOT Offices\District 1\Projects\PI704\DRAWING\CAD\Sheets\PI70409-sht-ATB.dwg		CHECKED -	REVISED -		IL 120 / US 45 CHANNELIZATION, TS MODERNIZATION AND INTERCONNECT			3338344	116TS&N-2	LAKE	102	20	
Default		DATE -	REVISED -		SCALE: NONE	SHEET	OF	SHEETS	STA.	TO	STA.	CONTRACT NO. 60W92	
												ILLINOIS FED. AID PROJECT	



STATION	OFFSET	STATION	OFFSET	STATION	OFFSET			
R1	501+22.2734	111.3013' LT	M1	500+15.9061	83.2658' LT	P3	500+73.8344	30.2502' LT
R2	500+73.8344	85.2502' LT	P2	500+25.3953	59.1991' LT	P4	504+44.0000	30.2502' LT
P1	500+12.3000	108.8832' LT	M2	500+45.6192	38.0389' LT	P5	506+44.0000	18.6106' LT

PLAN	SURVEYED	BY	DATE
	PLOTTED		
	ALIGNED		
	CHECKED		
	CARD FILE NAME		
	NO.		

PROFILE	SURVEYED	BY	DATE
	PLOTTED		
	GRADES CHECKED		
	STRUCTURE		
	NOT AT THIS OFFICE		
	NO.		



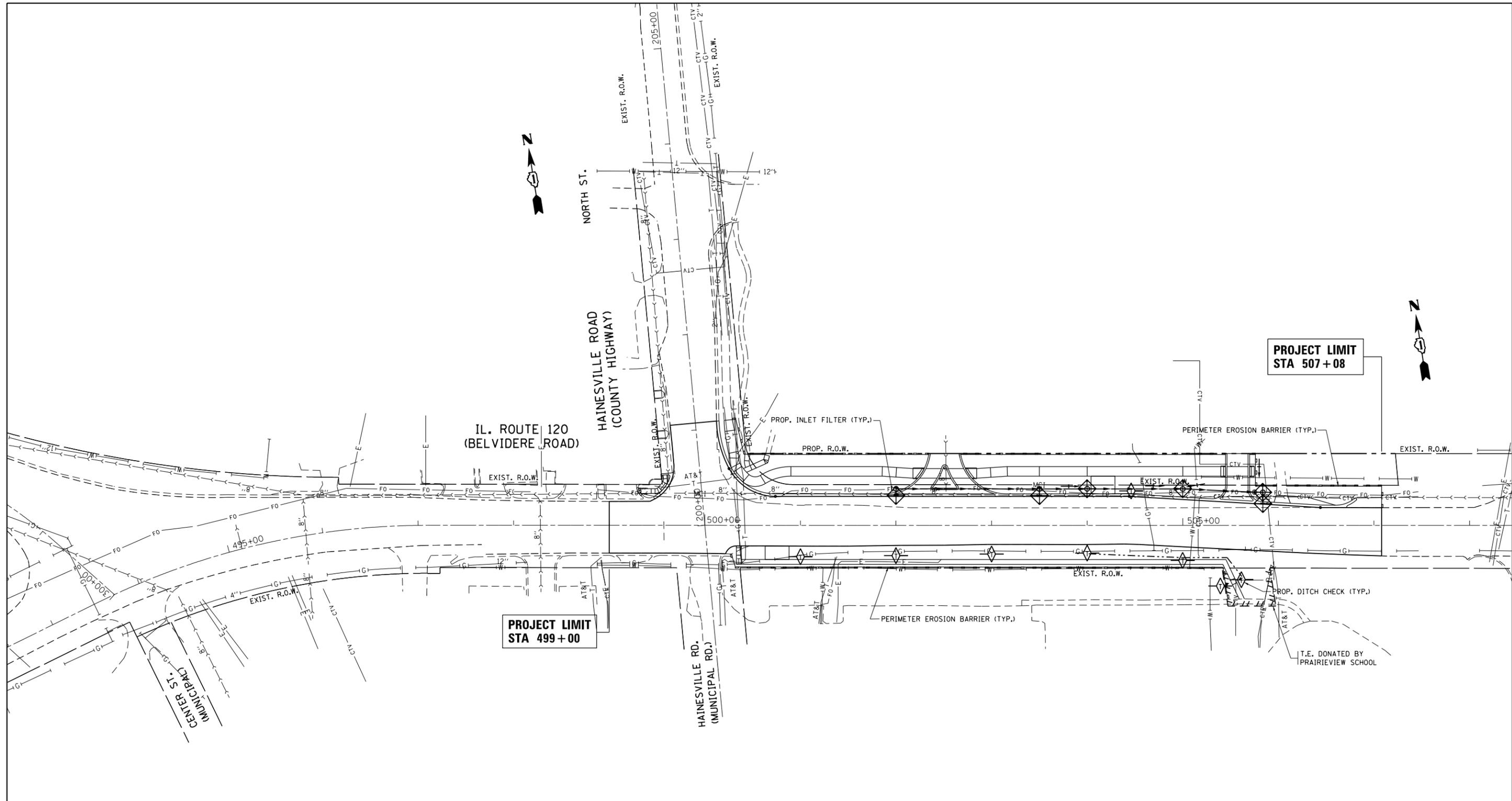
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	PLOT SCALE = 100.0000' / in.	CHECKED -	REVISED -
Default	PLOT DATE = 10/27/2016	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

ROADWAY PROFILE
IL 120 / US 45 CHANNELIZATION, TS MODERNIZATION AND INTERCONNECT

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3338.344	116TS&N-2	LAKE	102	22
CONTRACT NO. 60W92			ILLINOIS FED. AID PROJECT	



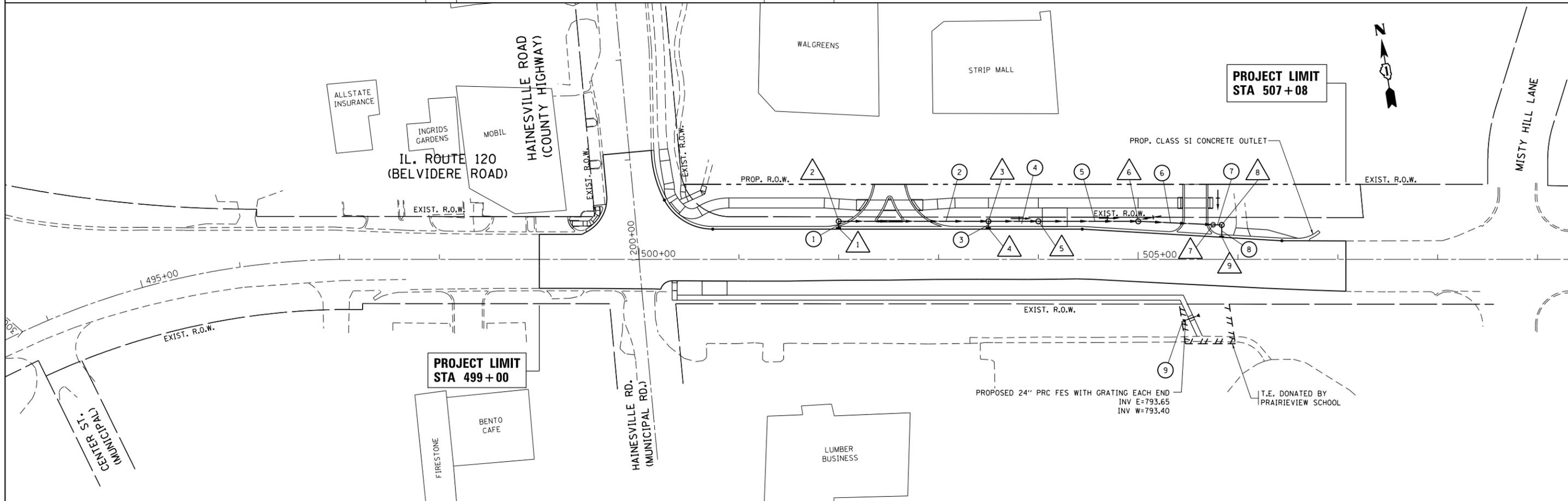
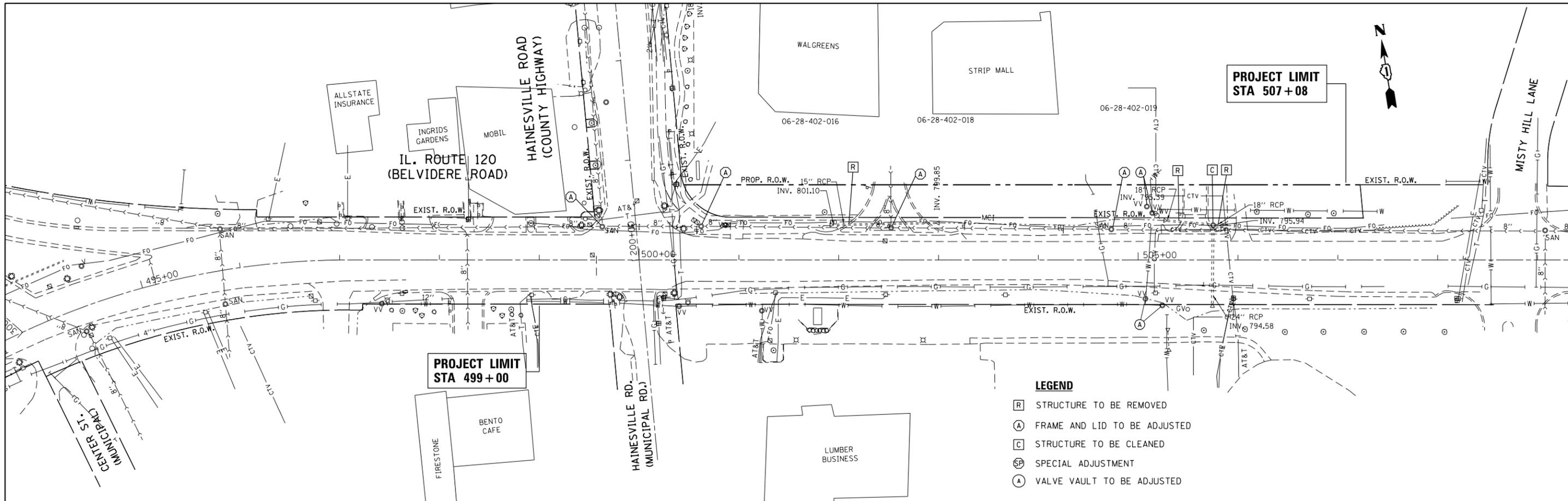
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Default	PLOT SCALE = 100.0000' / in.	CHECKED -	REVISED -
	PLOT DATE = 10/27/2016	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**EROSION AND SEDIMENT CONTROL PLAN
IL 120 / US 45 CHANNELIZATION, TS MODERNIZATION AND INTERCONNECT**

F.A.P. RTE. 3338344	SECTION 116TS&N-2	COUNTY LAKE	TOTAL SHEETS 102	SHEET NO. 23
CONTRACT NO. 60W92			ILLINOIS FED. AID PROJECT	

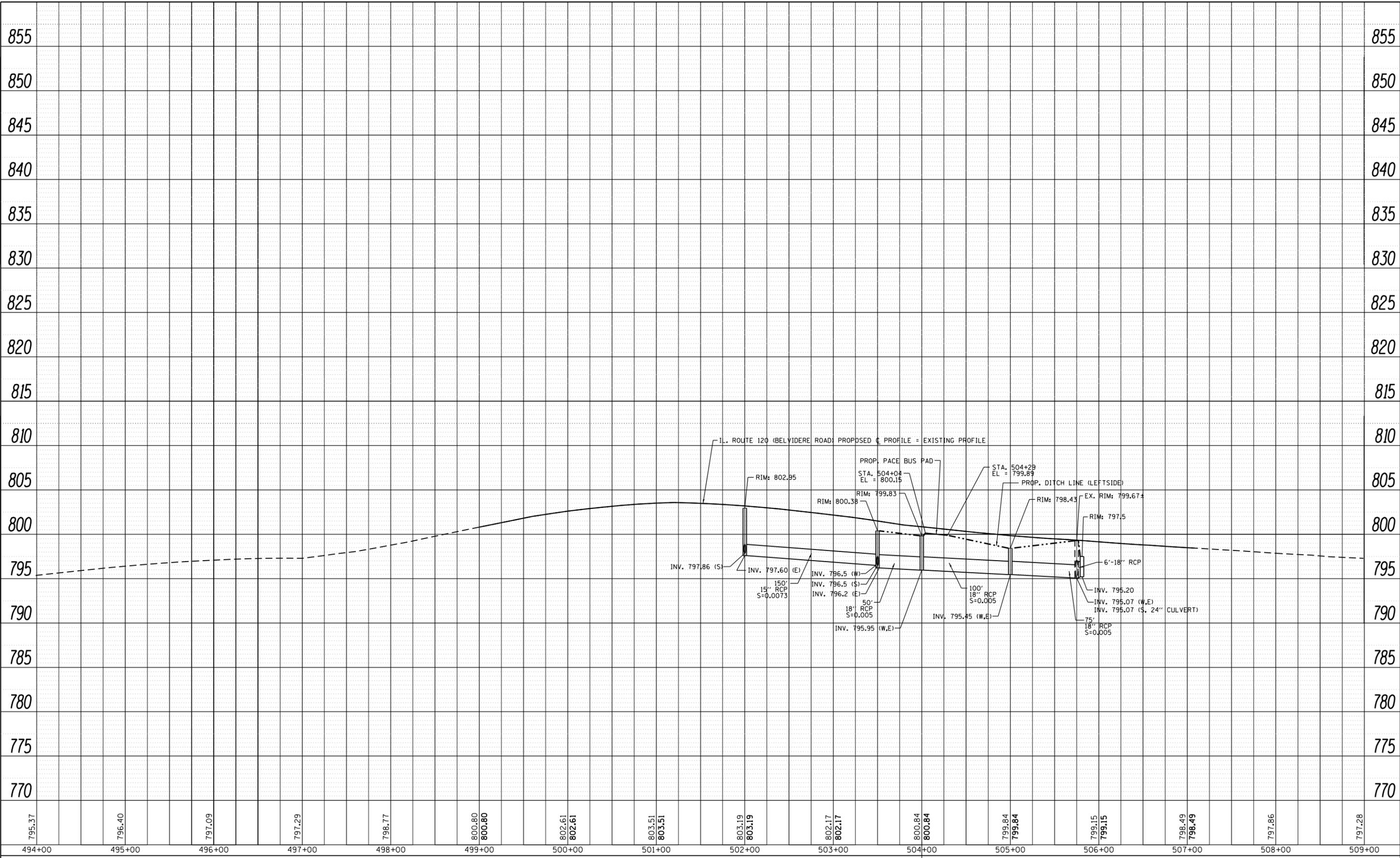
SCALE: 1" = 50' SHEET OF SHEETS STA. TO STA.



FILE NAME =	USER NAME = PencePL	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	DRAINAGE PLAN IL 120 / US 45 CHANNELIZATION, TS MODERNIZATION AND INTERCONNECT	F.A.P. R.E. = 3338.344	SECTION = 116TS&N-2	COUNTY = LAKE	TOTAL SHEETS = 102	SHEET NO. = 24		
Default	PLOT SCALE = 100.0000' / in.	CHECKED -	REVISED -			SCALE: 1"=50'	SHEET OF SHEETS	STA. TO STA.	CONTRACT NO. 60W92			
	PLOT DATE = 10/27/2016	DATE -	REVISED -			ILLINOIS FED. AID PROJECT						

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

PROFILE	SURVEYED	DATE
	PLOTTED	
	GRADES CHECKED	
	STRUCTURE NOTED	
NOTE BOOK NO.	NOT AT THIS OFFICE	



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	PLOT SCALE = 100.0000' / in.	CHECKED -	REVISOR -
Default	PLOT DATE = 10/27/2016	DATE -	REVISOR -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**DRAINAGE PROFILE
IL 120 / US 45 CHANNELIZATION, TS MODERNIZATION AND INTERCONNECT**

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3338.344	116TS&N-2	LAKE	102	25
CONTRACT NO. 60W92			ILLINOIS FED. AID PROJECT	

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

DRAINAGE STRUCTURES

STORM SEWERS

1

INL, TY-A, 2' DIA W/ TY-24 FRAME AND GRATE
 STA.=502+00, 31.25' LT
 RIM= 802.34
 INV.=797.90 (N)

FLAT TOP

8

MH, TY-A, 4' DIA W/ TY-8 GRATE
 STA.=507+83.7, 34.4' LT
 RIM= 797.50
 INV.=795.50 (S)
 INV.=795.20 (W)

FLAT TOP

2

MH, TY-A, 4' DIA W/ TY-1 F, CL
 STA.=502+00, 38.1' LT
 RIM= 802.95
 INV.=797.86 (S)
 INV.=797.60 (E)

9

INL, TY-A, 2' DIA W/ TY-24 FRAME AND GRATE
 STA.=507+83.7, 23.2' LT
 RIM= 798.70
 INV.=795.58 (N)

FLAT TOP

3

MH, TY-A, 4' DIA W/ TY-8 GRATE
 STA.=503+50, 38.1' LT
 RIM= 800.38
 INV.=796.50 (S)
 INV.=796.50 (W)
 INV.=796.20 (E)

4

INL, TY-A, 2' DIA W/ TY-24 FRAME AND GRATE
 STA.=503+50, 31.25' LT
 RIM= 800.53
 INV.=796.54 (N)

FLAT TOP

5

MH, TY-A, 4' DIA W/ TY-8 GRATE
 STA.=504+00, 38.1' LT
 RIM= 799.76
 INV.=795.95 (W)
 INV.=795.95 (E)

FLAT TOP

6

MH, TY-A, 4' DIA W/ TY-8 GRATE
 STA.=505+00, 38.1' LT
 RIM= 798.43
 INV.=795.45 (W)
 INV.=795.45 (E)

7

EXISTING
 MH, TY-A, 4' DIA W/ TY-1 F, CL
 STA.=505+75, 34.6' LT
 RIM= 799.67±
 INV.=795.17± (EX. W)
 INV.=795.17± (EX. NE)
 INV.=795.07± (EX. S)
 INV.=795.07 (PROP. W)
 INV.=795.07 (PROP. E)

1

12" DIA SS, CL A, TY 2
 LENGTH = 6.75'
 SLOPE = 0.59%
 TBF = 2.4 CU. YD.

2

15" DIA SS, CL A, TY 2
 LENGTH = 150'
 SLOPE = 0.73%
 TBF = 39.5 CU. YD.

3

12" DIA SS, CL A, TY 1
 LENGTH = 6.75'
 SLOPE = 0.59%
 TBF = 1.8 CU. YD.

4

18" DIA SS, CL A, TY 1
 LENGTH = 50'
 SLOPE = 0.50%
 TBF = 0.0 CU. YD.

5

18" DIA SS, CL A, TYP1
 LENGTH = 100'
 SLOPE = 0.50%
 TBF = 7.1 CU. YD.

6

18" DIA SS,
 (WATERMAIN REQUIREMENTS)
 LENGTH = 75'
 SLOPE = 0.50%
 TBF = 8.5 CU. YD.

7

18" DIA SS, CL A, TY 1
 LENGTH = 8.7'
 SLOPE = 1.49%
 TBF = 0.0 CU. YD.

8

12" DIA SS, CL A, TY 1
 LENGTH = 11.2'
 SLOPE = 0.71%
 TBF = 1.2 CU. YD.

9

24" DIA SS, CL A, TY 1
 LENGTH = 17.5'
 SLOPE = 1.43%
 TBF = 1.1 CU. YD.

(PIPE LENGTH AND SLOPE
 INCLUDES PRC FES WITH GRATING EACH END)

FILE NAME =	USER NAME = PencePL	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	PROPOSED DRAINAGE STRUCTURES AND STORM SEWER IL 120 / US 45 CHANNELIZATION, TS MODERNIZATION AND INTERCONNECT	F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
						3338344	116TS&N-2	LAKE	102	26	
						CONTRACT NO. 60W92					
Default	PLOT DATE = 10/27/2016	DATE -	REVISED -			SCALE:	SHEET	OF	SHEETS	STA.	TO

PART OF THE SOUTHEAST QUARTER OF SECTION 28, TOWNSHIP 45 NORTH, RANGE 10 EAST OF THE 3RD. PRINCIPAL MERIDIAN, IN LAKE COUNTY, ILLINOIS.

PARCEL NUMBER	OWNER	TOTAL HOLDINGS ACRES	PART TAKEN ACRES	AREA IN EXISTING R.O.W. ACRES	REMAINDER AREA ACRES	EASEMENT ACRES	EASEMENT AREA SQUARE FEET	EASEMENT PURPOSE	PERMANENT INDEX NUMBER	PROPERTY ACQUIRED BY
1K20001	CHICAGO TITLE LAND TRUST COMPANY, AS TRUSTEE UNDER TRUST NUMBER 8002356755 DATED MARCH 11, 2011	1.770	0.145		1.625				06-28-402-016	
1K20002	RUBY-07-HAINESVILLE, LLC, A DELEWARE LIMITED LIABILITY COMPANY	1.877	0.255		1.622				06-28-402-018 06-28-402-019	
1K20004	CHICAGO TITLE LAND TRUST COMPANY, AS SUCCESSOR TRUSTEE TO CITIZENS BANK AND TRUST COMPANY, AS TRUSTEE UNDER TRUST AGREEMENT DATED THE 26TH DAY OF APRIL, 1971, AND KNOWN AS TRUST NUMBER 395	1.037	0.156	0.058	0.881				06-28-403-002 06-28-400-007	

LEGEND

- SECTION CORNER
- QUARTER CORNER
- SECTION LINE
- QUARTER SECTION LINE
- QUARTER, QUARTER SECTION LINE
- PLATTED LOT LINES
- PROPERTY (DEED) LINE
- APL
- APPARENT PROPERTY LINE
- CENTERLINE
- EXISTING RIGHT OF WAY LINE
- PROPOSED RIGHT OF WAY LINE
- PROPOSED EASEMENT
- MEASURED DIMENSION
- 129.32' (CDMP)
- 129.32' (CDMP)
- 129.32'
- EXISTING BUILDING
- IRON PIPE OR ROD FOUND
- CUT CROSS FOUND OR SET
- *MAG' NAIL SET
- 1/2" REBAR SET
- T1, T2, T3: THESE STAKES REFERENCE FOUND OR SET MONUMENTATION. SET 5/8" INCH IRON ROD FLUSH WITH GROUND TO TIE FOUND IRON STAKE IDENTIFIED BY COLORED PLASTIC CAP BEARING SURVEYORS REGISTRATION NUMBER.
- BT1, BT2, BT3: THESE STAKES, IN CULTIVATED AREAS, REFERENCE FOUND OR SET MONUMENTATION. BURIED 3/8" INCH IRON ROD 20 INCHES BELOW GROUND TO TIE FOUND IRON STAKE. IDENTIFIED BY COLORED PLASTIC CAP BEARING SURVEYORS REGISTRATION NUMBER.
- M: 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)
COUNTY OF)

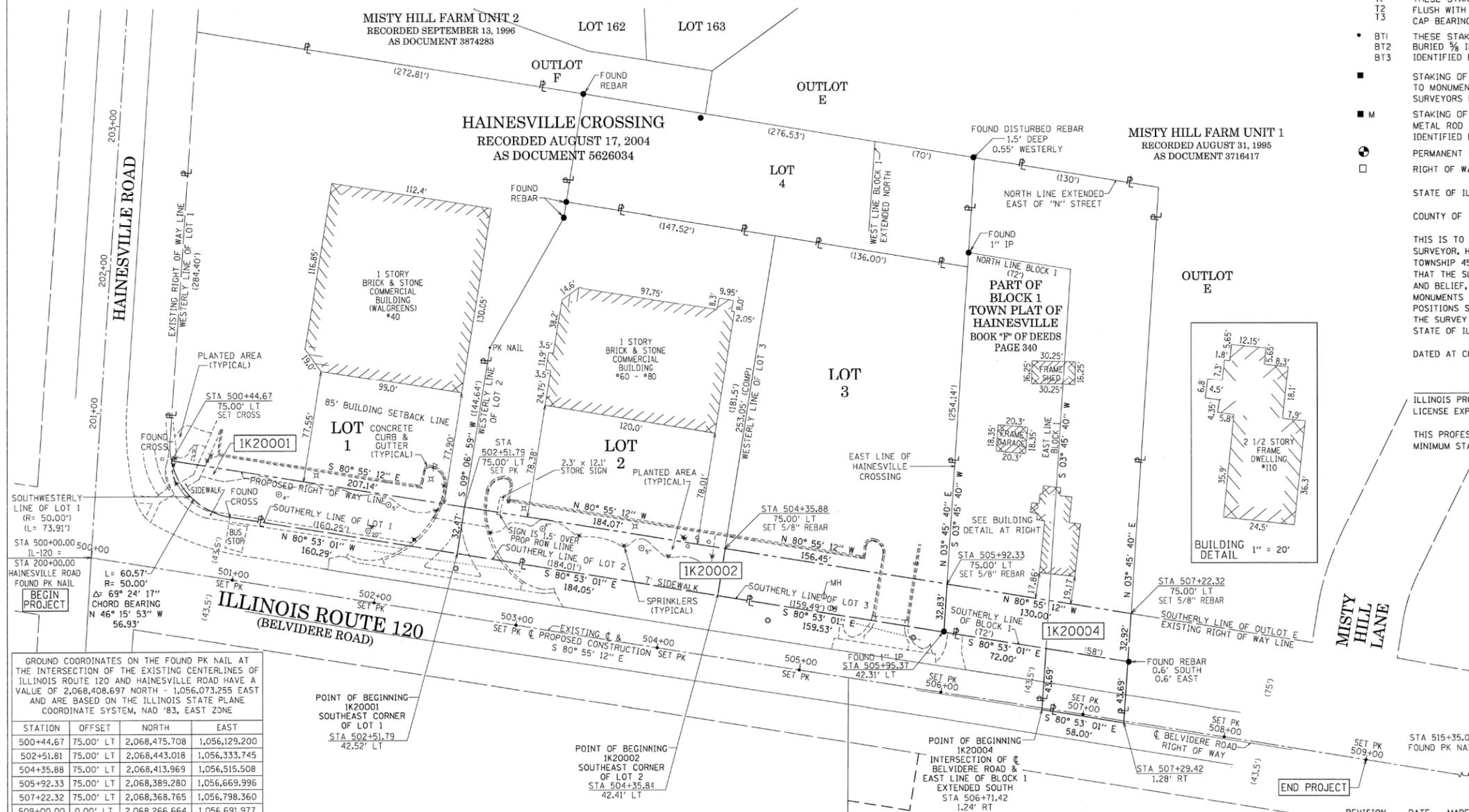
THIS IS TO CERTIFY THAT I, WILLIAM J. FLEMING, AN ILLINOIS PROFESSIONAL LAND SURVEYOR, HAVE SURVEYED THE PLAT OF HIGHWAYS SHOWN HEREON IN SECTION 28, TOWNSHIP 45 NORTH, RANGE 10 EAST OF THE THIRD PRINCIPAL MERIDIAN, LAKE COUNTY, AND BELIEF, THAT THE PLAT CORRECTLY REPRESENTS SAID SURVEY, THAT ALL MONUMENTS 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 CHICAGO, ILLINOIS THIS 12TH DAY OF DECEMBER, A.D. 2015.

ILLINOIS PROFESSIONAL LAND SURVEYOR 35-3226
LICENSE EXPIRATION DATE: 11/30/2016

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

WILLIAM J. FLEMING
35-3226
PROFESSIONAL LAND SURVEYOR



GROUND COORDINATES ON THE FOUND PK NAIL AT THE INTERSECTION OF THE EXISTING CENTERLINES OF ILLINOIS ROUTE 120 AND HAINESVILLE ROAD HAVE A VALUE OF 2,068,408.697 NORTH - 1,056,073.255 EAST AND ARE BASED ON THE ILLINOIS STATE PLANE COORDINATE SYSTEM, NAD '83, EAST ZONE

STATION	OFFSET	NORTH	EAST
500+44.67	75.00' LT	2,068,475.708	1,056,129.200
502+51.81	75.00' LT	2,068,443.018	1,056,333.745
504+35.88	75.00' LT	2,068,413.969	1,056,515.508
505+92.33	75.00' LT	2,068,389.280	1,056,669.996
507+22.32	75.00' LT	2,068,368.765	1,056,798.360
509+00.00	0.00' LT	2,068,266.664	1,056,691.977

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Suite 280
Chicago, IL 60631-2801
773 / 399 0112
www.graef-usa.com
Illinois Professional Design
Corporation 184-000938

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PTB 161/017 W0*2
GRAEF PROJECT
2012-3007.02

PLAT OF HIGHWAYS
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
ILLINOIS 120

SECTION: HAINESVILLE ROAD COUNTY: LAKE
PROJECT JOB NO.: R-91-016-11
STATION TO STATION
SCALE: 1" = 40' SHEET 2 OF 2

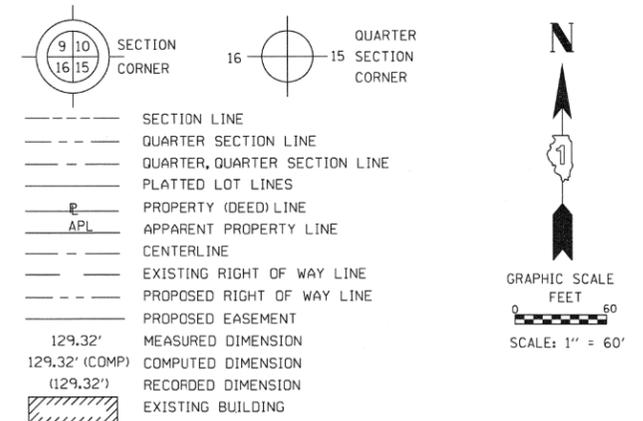
BUREAU OF LAND ACQUISITION
201 WEST CENTER COURT
SCHAUMBURG, ILLINOIS 60196

REVISION DATE MADE BY

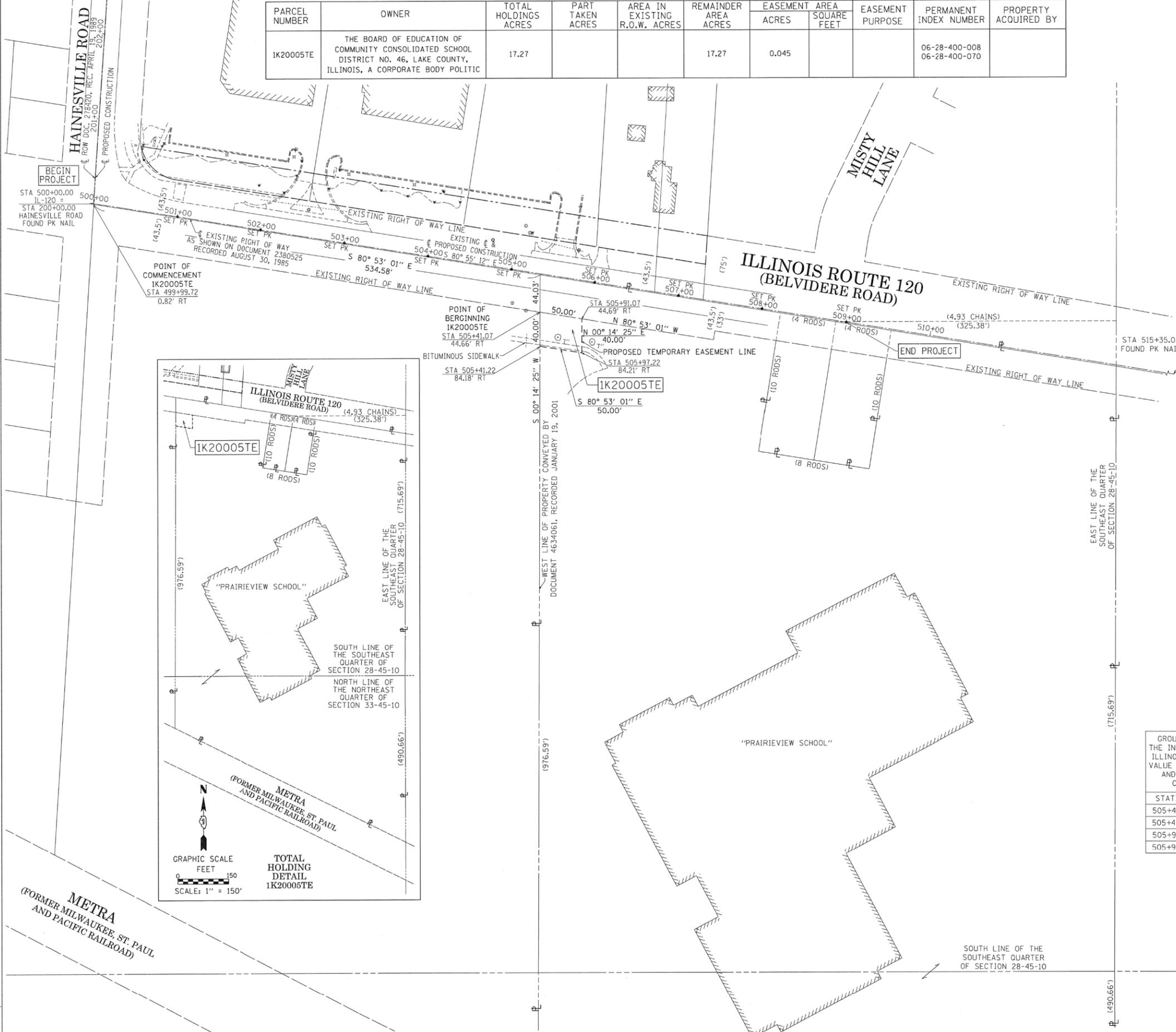
PART OF THE SOUTHEAST QUARTER OF SECTION 28, TOWNSHIP 45 NORTH, RANGE 10 EAST OF THE 3RD. PRINCIPAL MERIDIAN, IN LAKE COUNTY, ILLINOIS.

PARCEL NUMBER	OWNER	TOTAL HOLDINGS ACRES	PART TAKEN ACRES	AREA IN EXISTING R.O.W. ACRES	REMAINDER AREA ACRES	EASEMENT ACRES	AREA SQUARE FEET	EASEMENT PURPOSE	PERMANENT INDEX NUMBER	PROPERTY ACQUIRED BY
1K20005TE	THE BOARD OF EDUCATION OF COMMUNITY CONSOLIDATED SCHOOL DISTRICT NO. 46, LAKE COUNTY, ILLINOIS, A CORPORATE BODY POLITIC	17.27			17.27	0.045			06-28-400-008 06-28-400-070	

LEGEND



BEARINGS AND COORDINATES ARE BASED ON THE ILLINOIS STATE PLANE COORDINATE SYSTEM, NAD83, EAST ZONE, AND THE CENTERLINE OF PROPOSED CONSTRUCTION OF ILLINOIS ROUTE 120 BEARS S 80° 55' 12" E



- IRON PIPE OR ROD FOUND ⊕ 'MAG' NAIL SET
- + CUT CROSS FOUND OR SET ○ 5/8" REBAR SET
- T1 THESE STAKES REFERENCE FOUND OR SET MONUMENTATION, SET 5/8 INCH IRON ROD FLUSH WITH GROUND TO THE FOUND IRON STAKE IDENTIFIED BY COLORED PLASTIC CAP BEARING SURVEYORS REGISTRATION NUMBER.
- T2
- T3
- BT1 THESE STAKES, IN CULTIVATED AREAS, REFERENCE FOUND OR SET MONUMENTATION, BURIED 5/8 INCH IRON ROD 20 INCHES BELOW GROUND TO THE FOUND IRON STAKE, IDENTIFIED BY COLORED PLASTIC CAP BEARING SURVEYORS REGISTRATION NUMBER.
- BT2
- BT3
- STAKING OF PROPOSED RIGHT OF WAY, SET DIVISION OF HIGHWAYS SURVEY MARKER TO MONUMENT THE POSITION SHOWN, IDENTIFIED BY INSCRIPTION DATA AND SURVEYORS REGISTRATION NUMBER.
- M STAKING OF PROPOSED RIGHT OF WAY IN CULTIVATED AREAS, BURIED 5/8 INCH METAL ROD 20 INCHES BELOW GROUND TO MARK FUTURE SURVEY MARKER POSITION IDENTIFIED BY COLORED PLASTIC CAP BEARING SURVEYORS REGISTRATION NUMBER.
- ⊙ PERMANENT SURVEY MARKER, I.D.O.T. STANDARD 2135 (TO BE SET BY OTHERS).
- RIGHT OF WAY STAKING PROPOSED TO BE SET.

STATE OF ILLINOIS)
)SS
COUNTY OF)

THIS IS TO CERTIFY THAT I, WILLIAM J. FLEMING, AN ILLINOIS PROFESSIONAL LAND SURVEYOR, HAVE SURVEYED THE PLAT OF HIGHWAYS SHOWN HEREON IN SECTION 28, TOWNSHIP 45 NORTH, RANGE 10 EAST OF THE THIRD PRINCIPAL MERIDIAN, LAKE 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 CHICAGO, ILLINOIS THIS 8TH DAY OF JANUARY, A.D. 2016.

ILLINOIS PROFESSIONAL LAND SURVEYOR 35-3226
LICENSE EXPIRATION DATE: 11/30/2016

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



GROUND COORDINATES ON THE FOUND PK NAIL AT THE INTERSECTION OF THE EXISTING CENTERLINES OF ILLINOIS ROUTE 120 AND HAINESVILLE ROAD HAVE A VALUE OF 2,068,408.697 NORTH - 1,056,073.255 EAST AND ARE BASED ON THE ILLINOIS STATE PLANE COORDINATE SYSTEM, NAD '83, EAST ZONE

STATION	OFFSET	NORTH	EAST
505+41.07	44.66' RT	2,068,279.210	1,056,600.498
505+47.22	84.18' RT	2,068,239.210	1,056,600.330
505+91.07	44.69' RT	2,068,271.288	1,056,649.866
505+97.22	84.21' RT	2,068,231.288	1,056,649.698



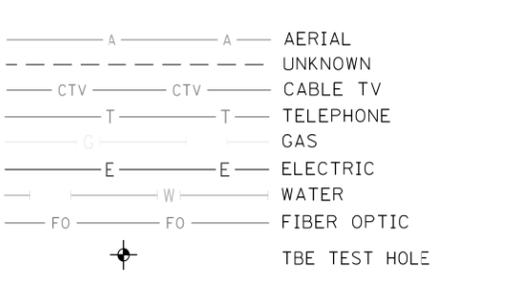
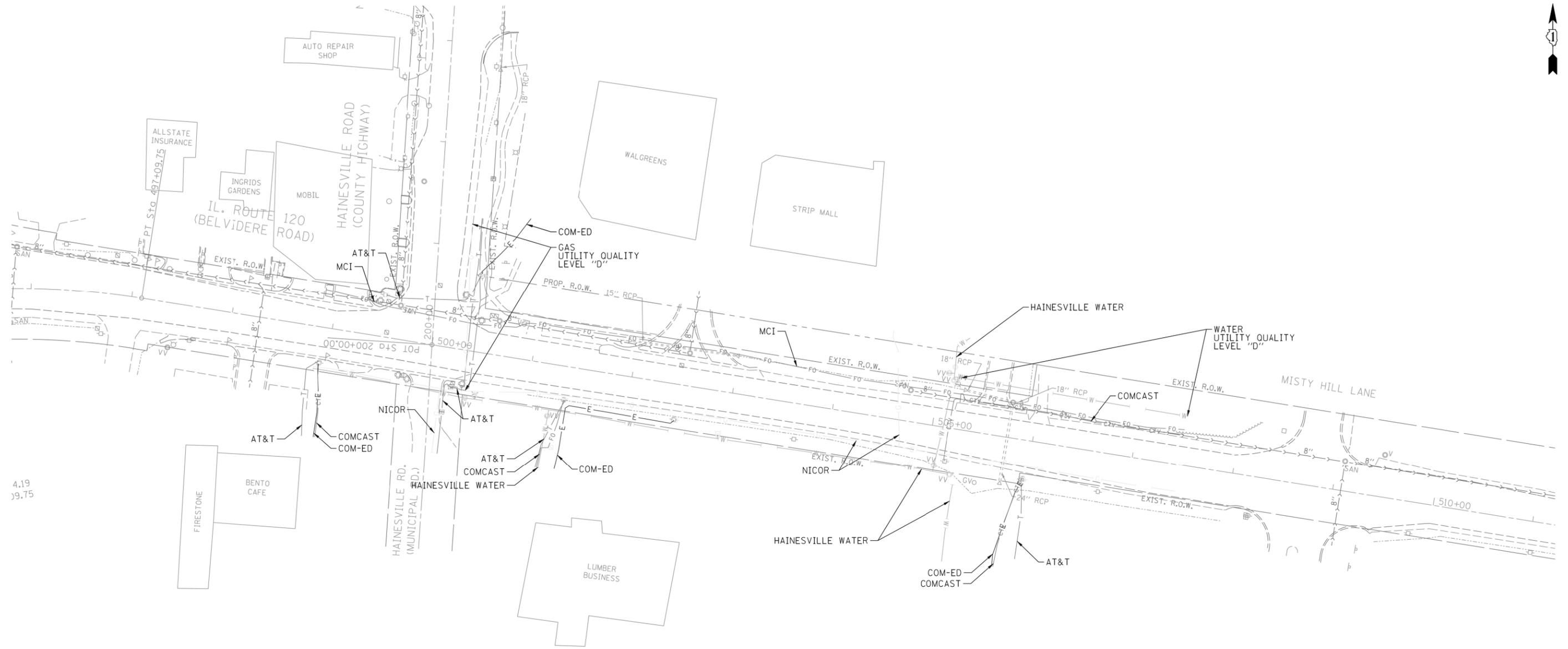
8501 West Higgins Road
Suite 280
Chicago, IL 60631-2801
773 / 399 0112
www.graef-usa.com
Illinois Professional Design Corporation 184-000938

PLAT OF HIGHWAYS
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
ILLINOIS 120
SECTION: HAINESVILLE ROAD COUNTY: LAKE
PROJECT JOB NO.: R-91-016-11
STATION 500+00.00 TO STATION 509+00.00
SCALE: 1" = 60' SHEET 3 OF 3

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

REVISION DATE MADE BY

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PLATS & LEGALS



UTILITY OWNERS

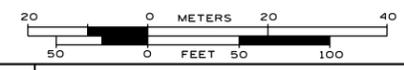
AT&T = TELEPHONE
 COMCAST = CABLE TV
 COMCAST = FIBER OPTIC
 COM-ED = ELECTRIC
 MCI = FIBER OPTIC
 NICOR = GAS
 HAINESVILLE WATER = WATER

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 10/14/13 through 10/21/13. Changes to utilities after 10/21/13 may have been made and therefore may result in variances from this plan. Consideration should be given to updating this plan if deemed advisable prior to final design and construction.

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



TBE Job No. IL09510543
 SUE Plan Page: 1 of 1



FILE NAME =	USER NAME = PencePL	DESIGNED - PLP	REVISED -
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Default	PLOT DATE = 10/19/2016	DATE -	REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

IL 120 / US 45 TS MODERNIZATION, INTERCONNECT, AND CHANNELIZATION
 SUE INVESTIGATION OF UNDERGROUND UTILITIES

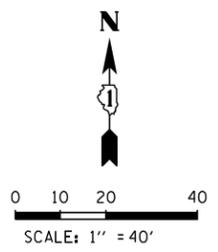
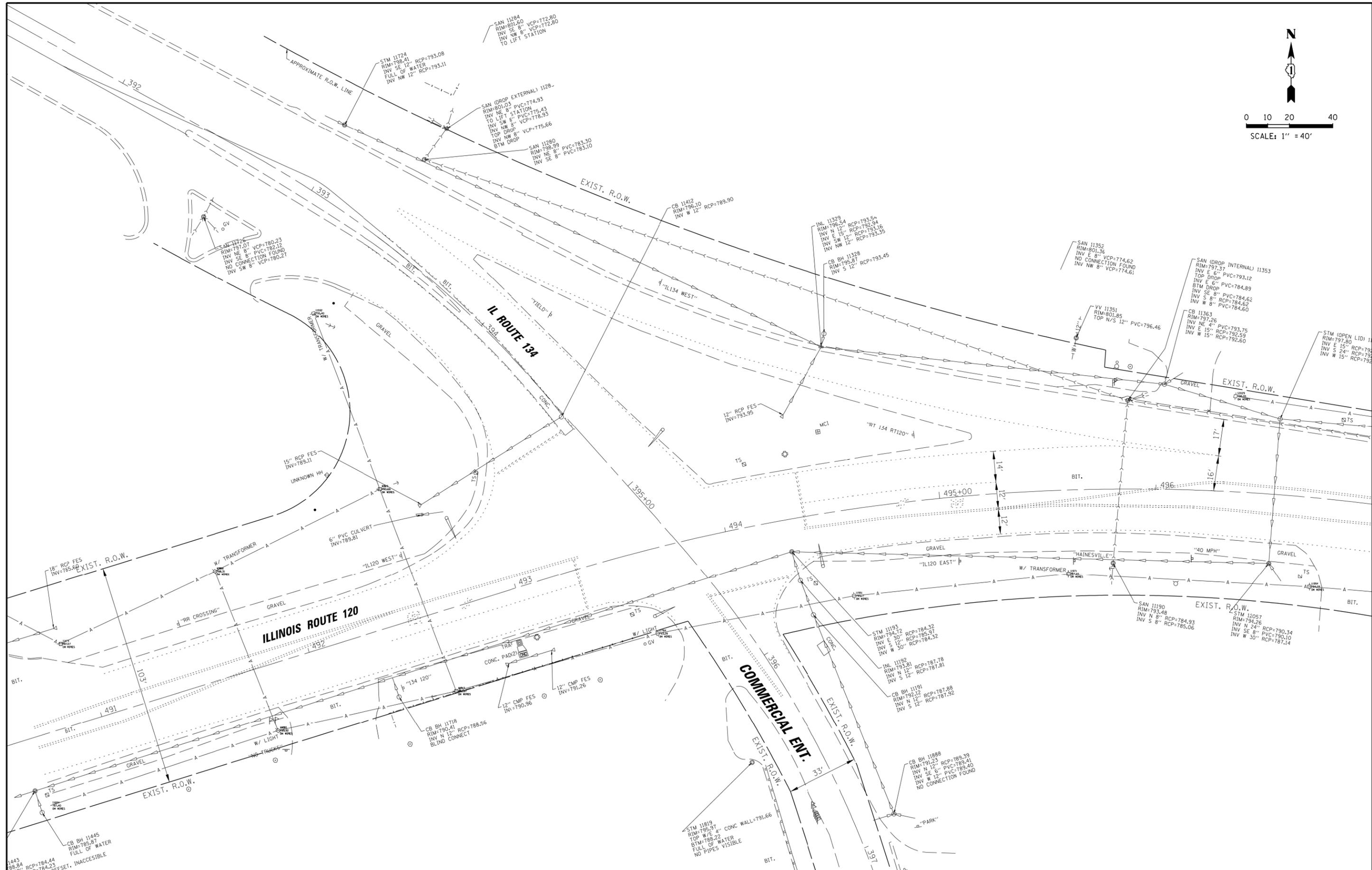
F.A.P. RTE. 3338344	SECTION 116TS&N-2	COUNTY LAKE	TOTAL SHEETS 102	SHEET NO. 28
CONTRACT NO. 60W92				
ILLINOIS FED. AID PROJECT				

SCALE: SHEET OF SHEETS STA. TO STA.

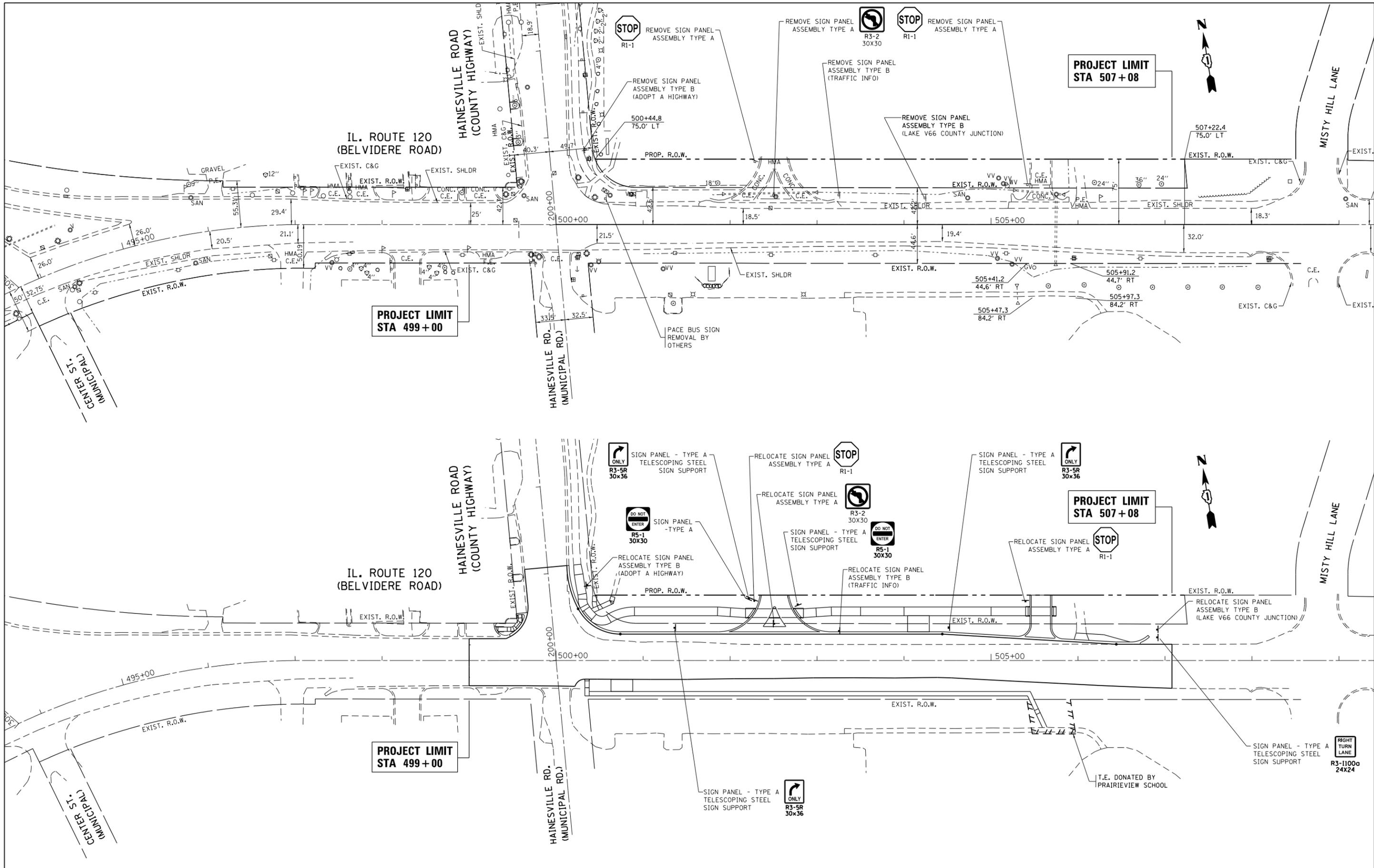
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 Rosemont, Illinois 60018
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 ALIGNED: _____
 CHECKED: _____
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FILE NAME = N:\CDDT\120226\6 - IL 120Traffic\PLAN\EX-UTIL_IL134.dgn	USER NAME = ejensen	DESIGNED - EAJ	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	EXISTING UTILITY PLAN IL ROUTE 120 AND IL ROUTE 134 /COMMERCIAL ENT.			F.A.P. RTE. 3338344	SECTION 116TS&N-2	COUNTY LAKE	TOTAL SHEETS 102	SHEET NO. 29
PLOT SCALE = 40'	PLOT DATE = 9/26/2016	DRAWN - FPB	REVISED -		SCALE: 1" = 20'	SHEET NO. OF SHEETS	STA. TO STA.	FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT	CONTRACT NO. 60W92		
		CHECKED - GMZ	REVISED -									
		DATE -	REVISED -									

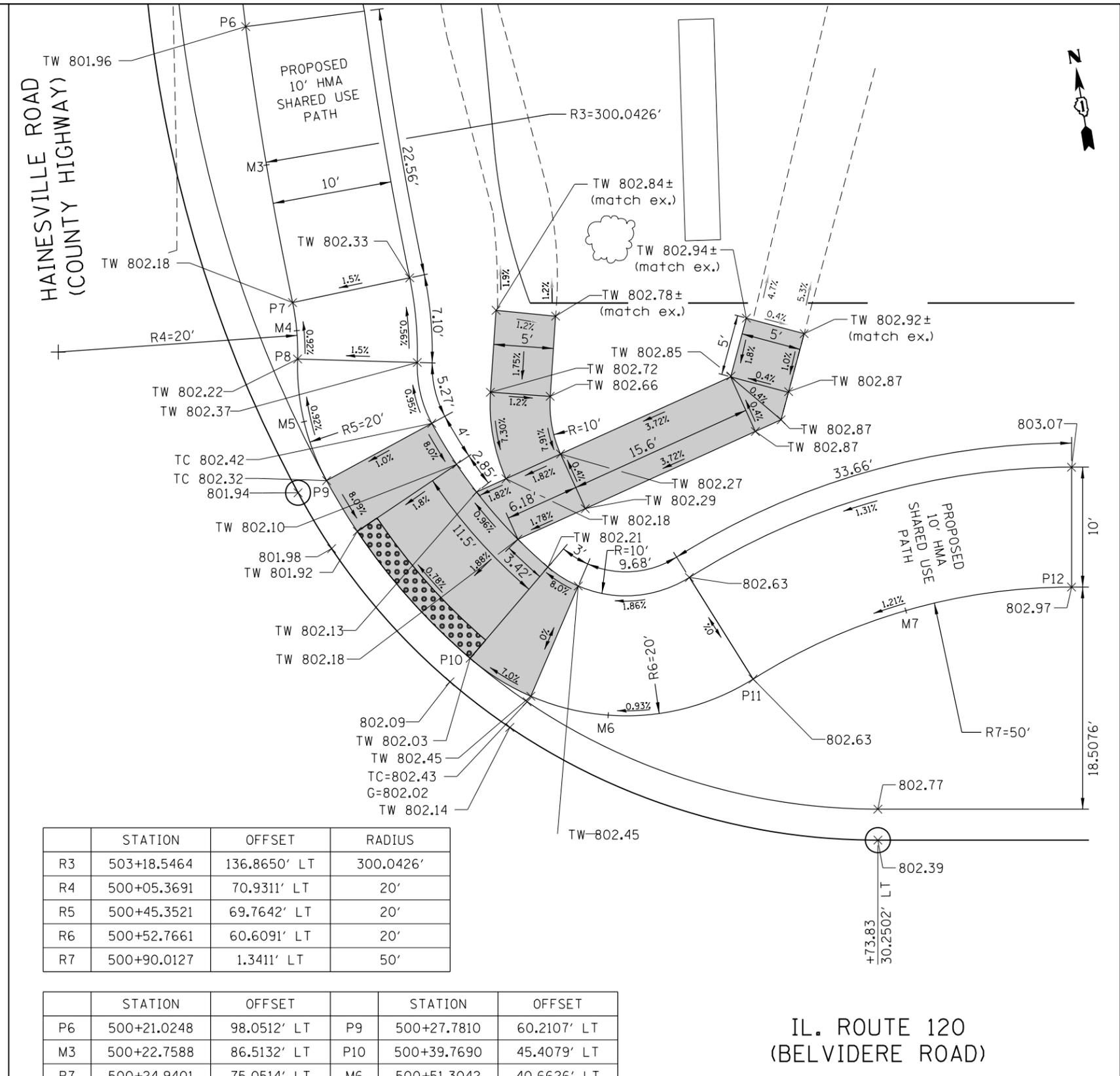
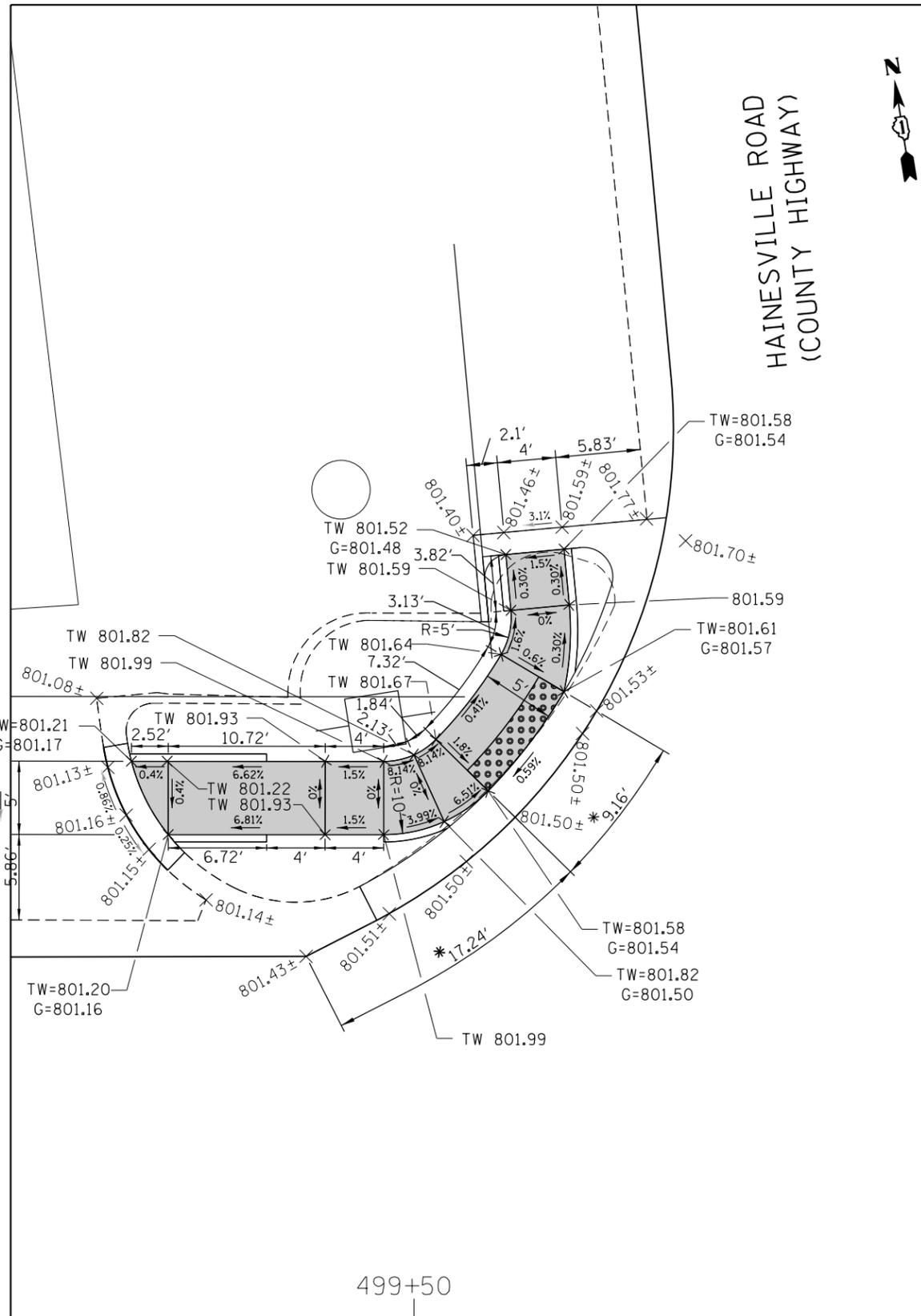


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		DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**IL 120 / US 45 TS MODERNIZATION, INTERCONNECT, AND CHANNELIZATION
TRAFFIC SIGNING PLAN**

F.A.P. RTE. 3338344	SECTION 116TS&N-2	COUNTY LAKE	TOTAL SHEETS 102	SHEET NO. 30
SCALE: SHEET OF SHEETS STA. TO STA.			CONTRACT NO. 60W92	
ILLINOIS FED. AID PROJECT				



	STATION	OFFSET	RADIUS
R3	503+18.5464	136.8650' LT	300.0426'
R4	500+05.3691	70.9311' LT	20'
R5	500+45.3521	69.7642' LT	20'
R6	500+52.7661	60.6091' LT	20'
R7	500+90.0127	1.3411' LT	50'

	STATION	OFFSET		STATION	OFFSET
P6	500+21.0248	98.0512' LT	P9	500+27.7810	60.2107' LT
M3	500+22.7588	86.5132' LT	P10	500+39.7690	45.4079' LT
P7	500+24.9401	75.0514' LT	M6	500+51.3042	40.6626' LT
M4	500+25.2897	72.7120' LT	P11	500+63.4080	43.6754' LT
P8	500+25.3606	70.3476' LT	M7	500+76.1692	49.3865' LT
M5	500+25.8991	65.1188' LT	P12	500+90.0127	51.3411' LT

IL. ROUTE 120
(BELVIDERE ROAD)

IL. ROUTE 120
(BELVIDERE ROAD)

* AS MEASURED ALONG
EX. EDGE OF PAVEMENT

PROPOSED PORTLAND CEMENT
CONCRETE SIDEWALK, 5'

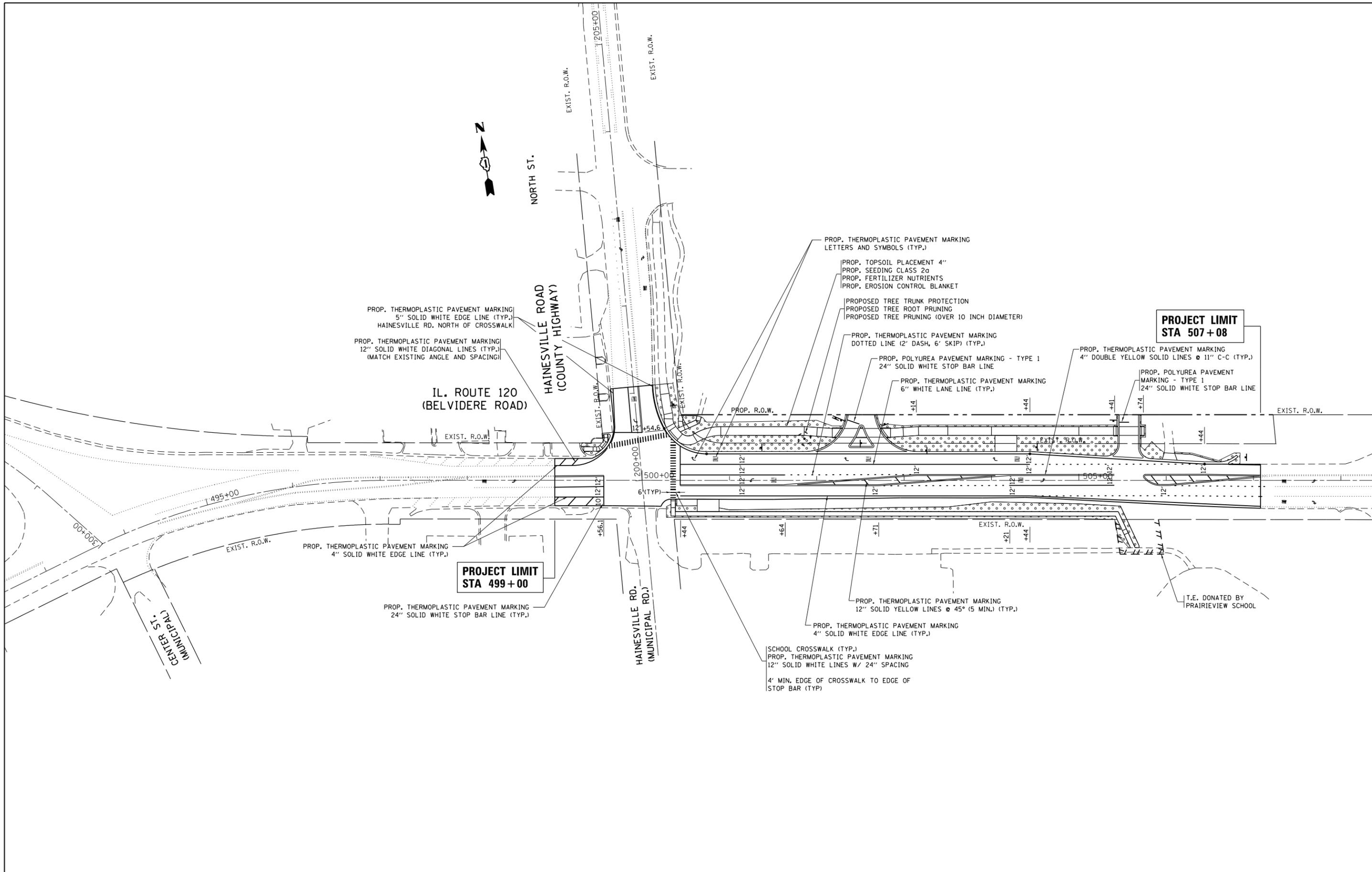
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Default	PLOT DATE = 10/27/2016	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL 120 / US 45 TS MODERNIZATION, INTERCONNECT, AND CHANNELIZATION
SIDEWALK DETAILS

F.A.P. RTE. 3338344	SECTION 116TS&N-2	COUNTY LAKE	TOTAL SHEETS 102	SHEET NO. 31
CONTRACT NO. 60W92				
ILLINOIS FED. AID PROJECT				

SCALE: SHEET OF SHEETS STA. TO STA.



FILE NAME =	USER NAME = PencePL	DESIGNED -	REVISED -
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Default	PLOT SCALE = 100.0000' / 1" =	CHECKED -	REVISED -
	PLOT DATE = 10/27/2016	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**PAVEMENT MARKING AND LANDSCAPING PLAN
IL 120 /US 45 CHANNELIZATION, TS MODERNIZATION AND INTERCONNECT**

F.A.P. RFE. 3338.344	SECTION 116TS&N-2	COUNTY LAKE	TOTAL SHEETS 102	SHEET NO. 34
CONTRACT NO. 60W92			ILLINOIS FED. AID PROJECT	

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

TRAFFIC SIGNAL LEGEND

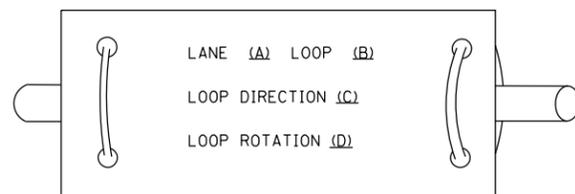
(NOT TO SCALE)

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 I					
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								

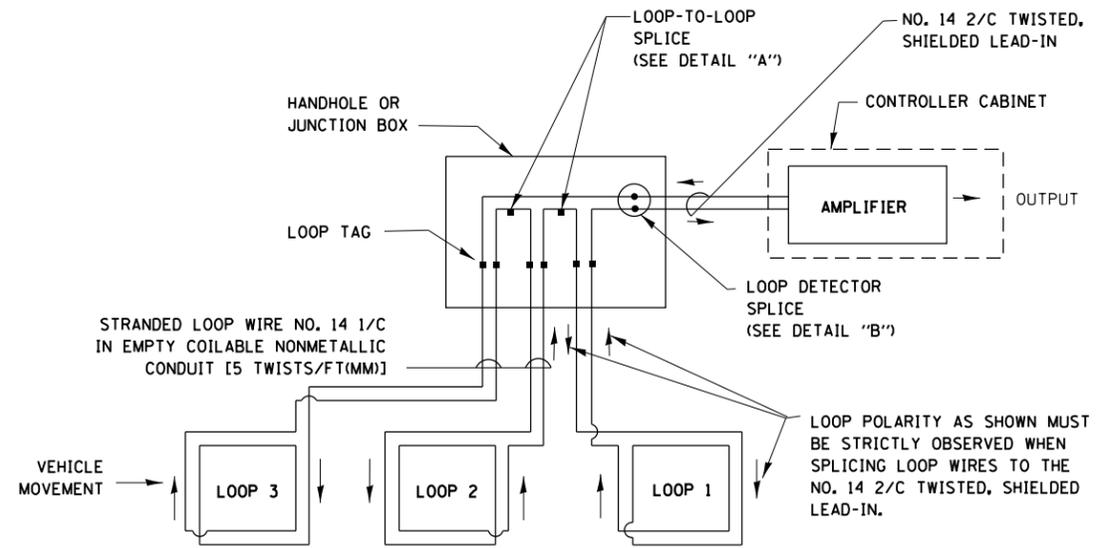
LOOP DETECTOR NOTES

1. 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.
2. 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.
3. 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.
4. ALL LOOP CABLE SHALL BE FASTENED WITH PLASTIC TIE WRAP TO THE HANDHOLE HOOKS.
5. 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.
6. 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.
7. 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

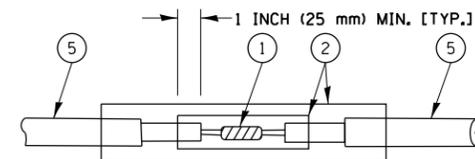


- A. LANE 1 IS THE LANE CLOSEST TO THE CENTERLINE OF THE ROADWAY
- B. LOOP #1 IS THE LOOP IN THE LANE CLOSEST TO THE INTERSECTION.
- C. LABEL LOOP CABLE "IN" OR LOOP CABLE "OUT".
- D. LABEL LOOP CABLE CLOCKWISE OR LOOP CABLE COUNTERCLOCKWISE.

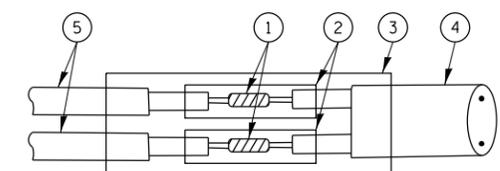


DETECTOR LOOP WIRING SCHEMATIC

- 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.

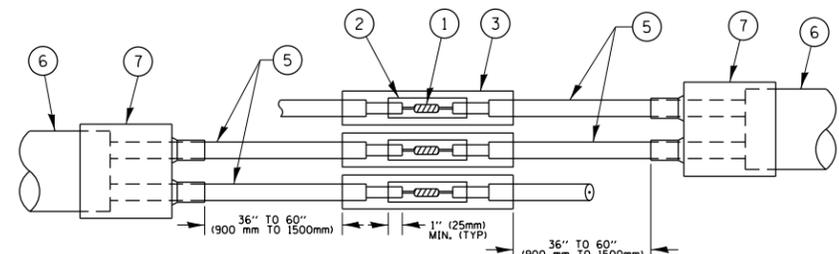


DETAIL "A"
LOOP-TO-LOOP SPLICE

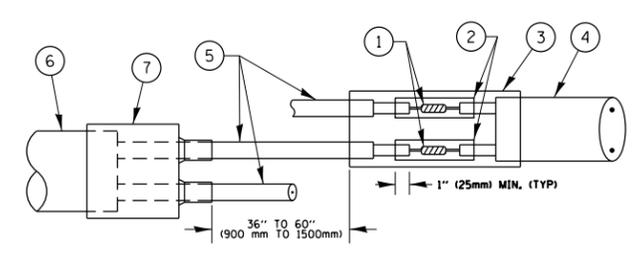


DETAIL "B"
LOOP-TO-CONTROLLER SPLICE

TYPE I LOOP



DETAIL "A"
LOOP-TO-LOOP SPLICE



DETAIL "B"
LOOP-TO-CONTROLLER SPLICE

PRE-FORMED LOOP

LOOP DETECTOR SPLICE

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

FILE NAME =	USER NAME = PencePL	DESIGNED -	REVISED -
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Default	PLOT DATE = 10/27/2016	DATE -	REVISED -

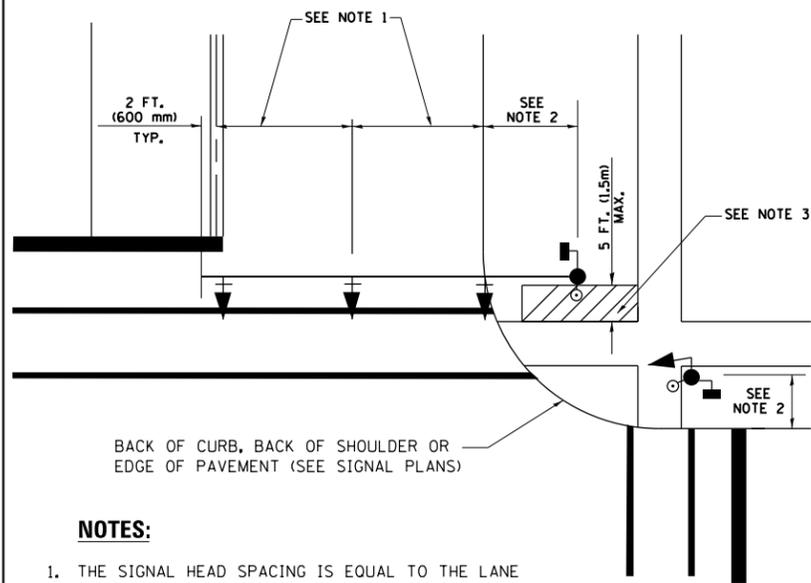
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**DISTRICT ONE
STANDARD TRAFFIC SIGNAL DESIGN DETAILS**

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

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3338.344	116TS&N-2	LAKE	102	37
TS-05		CONTRACT NO. 60W92		
ILLINOIS FED. AID PROJECT				

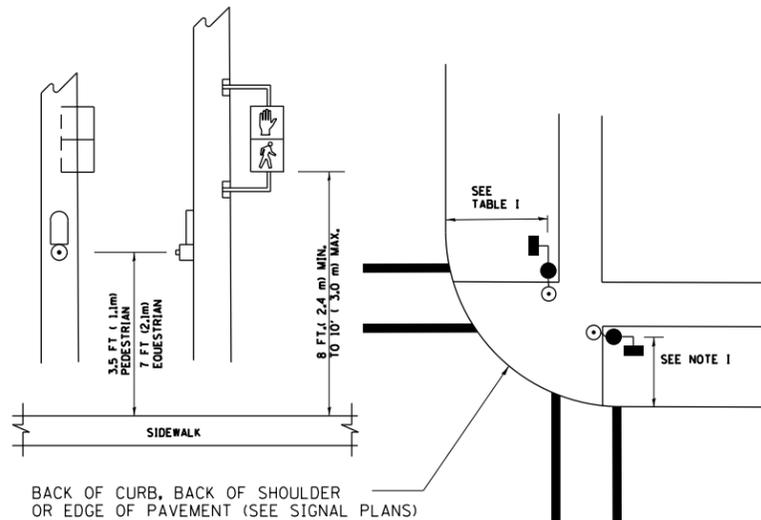
**TRAFFIC SIGNAL MAST ARM AND SIGNAL POST
MAST ARM MOUNTED SIGNALS IN EXISTING, PROPOSED OR
FUTURE SIDEWALK/BICYCLE PATH AREA. INTERSECTION SHOWN
WITH PEDESTRIAN SIGNALS AND PEDESTRIAN PUSHBUTTON DETECTORS.**



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."

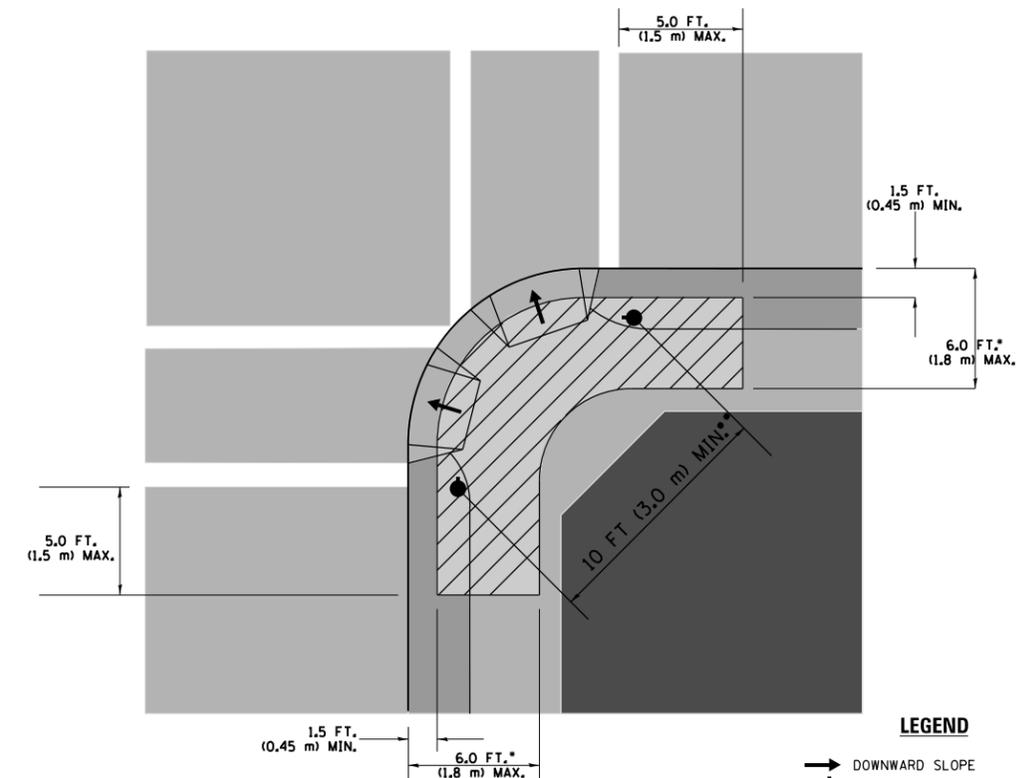
**PEDESTRIAN SIGNAL POST
AND
PEDESTRIAN PUSH BUTTON POST**



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:

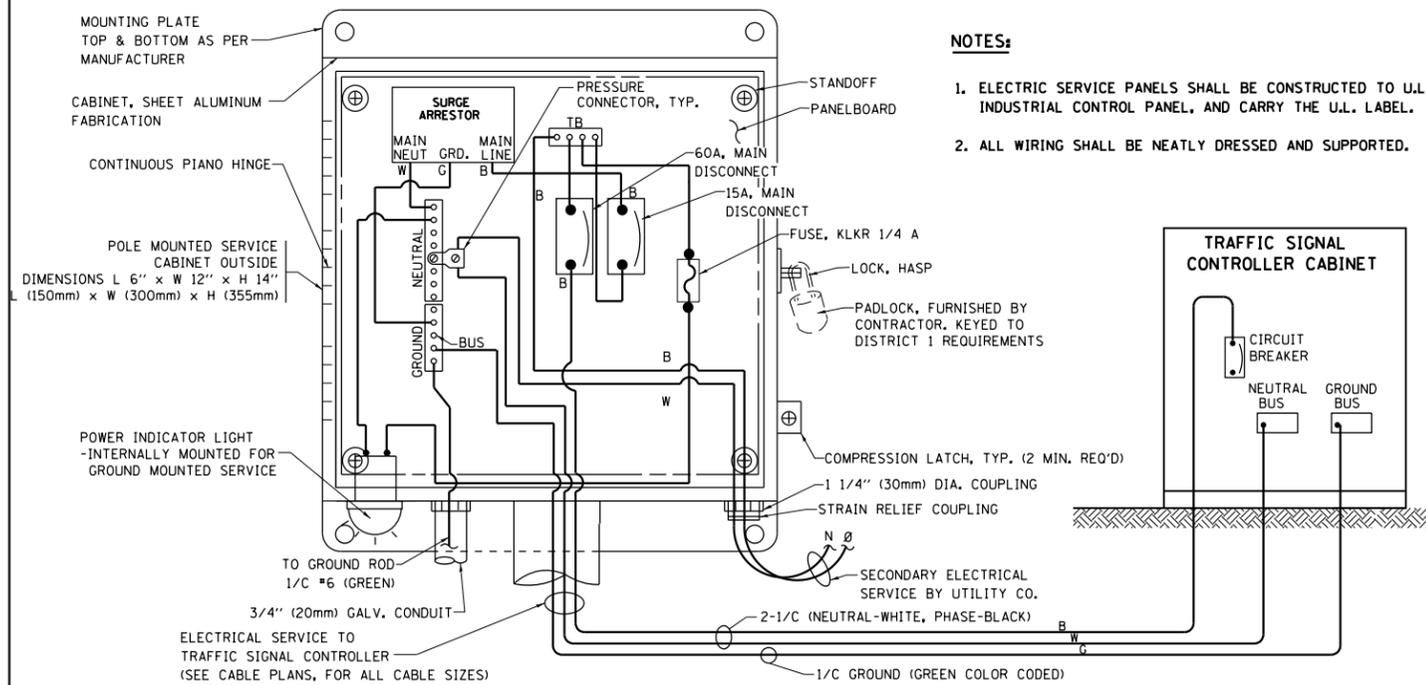
1. PEDESTRIAN SIGNAL HEADS SHALL BE MOUNTED WITH THE BOTTOM OF THE SIGNAL HOUSING INCLUDING BRACKETS NOT LESS THAN 8 FT (2.4 m) OR MORE THAN 10 FT (3 m) ABOVE SIDEWALK LEVEL, AND SHALL BE POSITIONED AND ADJUSTED TO PROVIDE MAXIMUM VISIBILITY AT THE BEGINNING OF THE CONTROLLED CROSSWALK.
2. THE BOTTOM 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

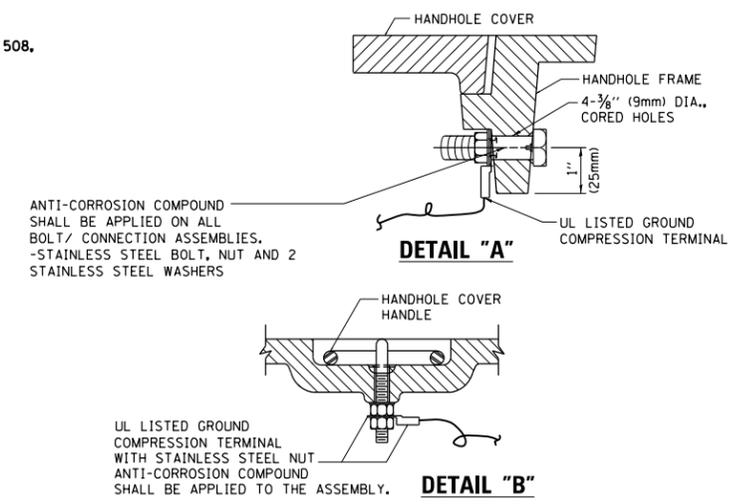
TRAFFIC SIGNAL EQUIPMENT	COMBINATION CONCRETE CURB AND GUTTER (MINIMUM DISTANCE FROM BACK OF CURB TO CENTERLINE OF FOUNDATION)	SHOULDER/NON-CURBED AREA (MINIMUM DISTANCE FROM EDGE OF PAVEMENT TO CENTERLINE OF FOUNDATION)
TRAFFIC SIGNAL MAST ARM POLE	6 FT (1.8m)	SHOULDER WIDTH + 2 FT (0.6m), MINIMUM 10 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.

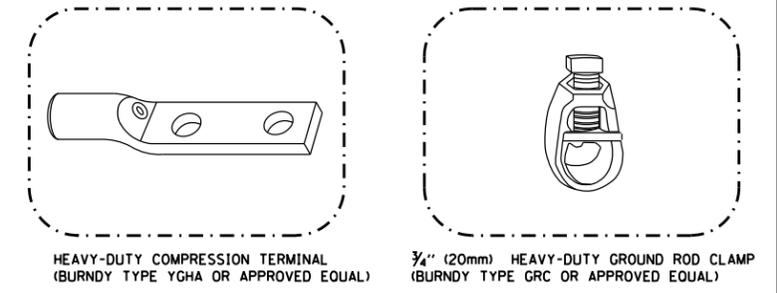
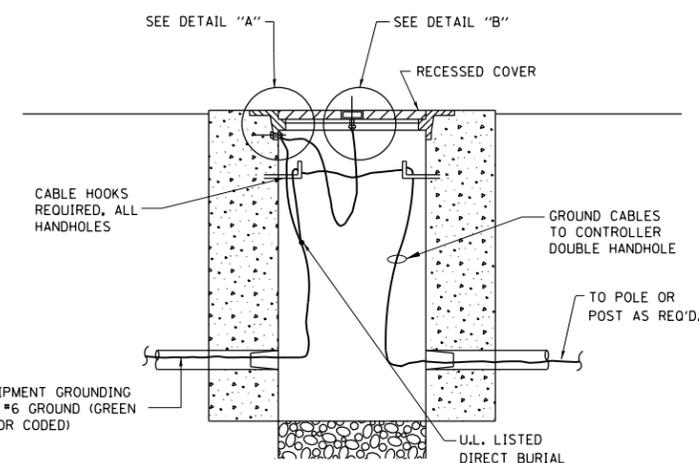


ELECTRICAL SERVICE - PANEL DIAGRAM (TYPICAL FOR POLE AND GROUND MOUNTED SERVICE)
SERVICE INSTALLATION POLE MOUNT (SHOWN)
 (NOT TO SCALE)

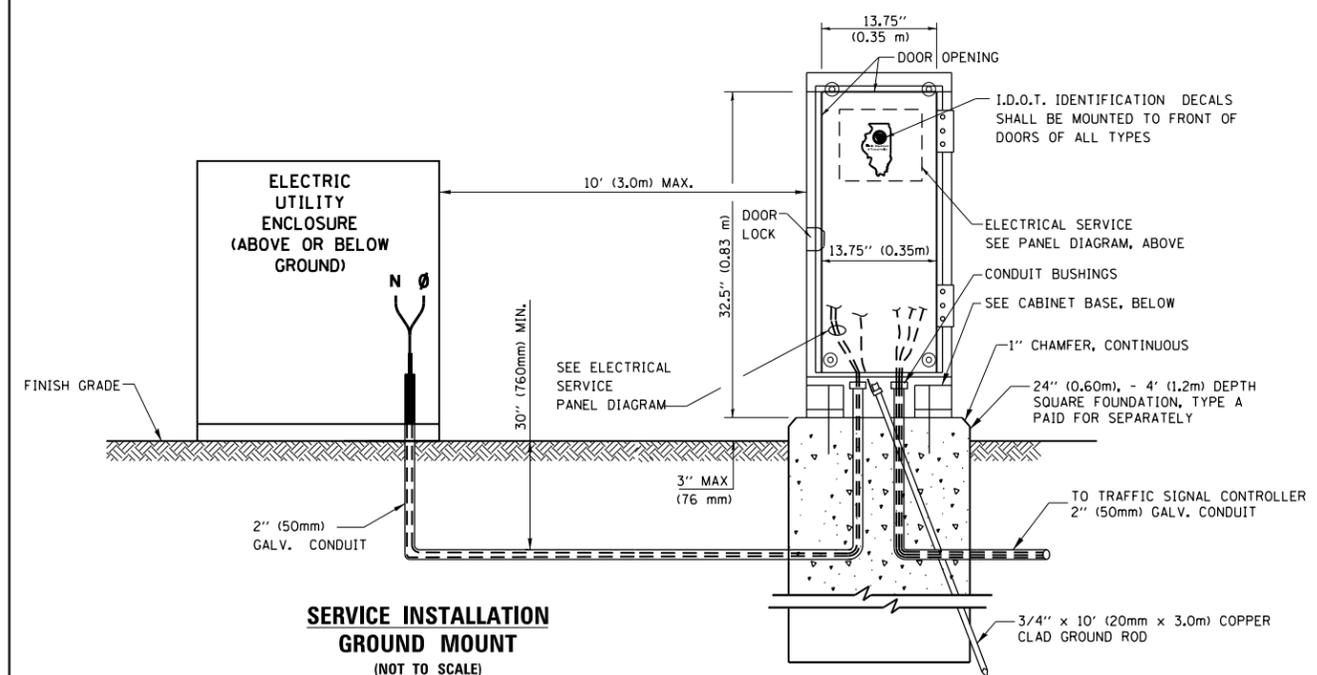
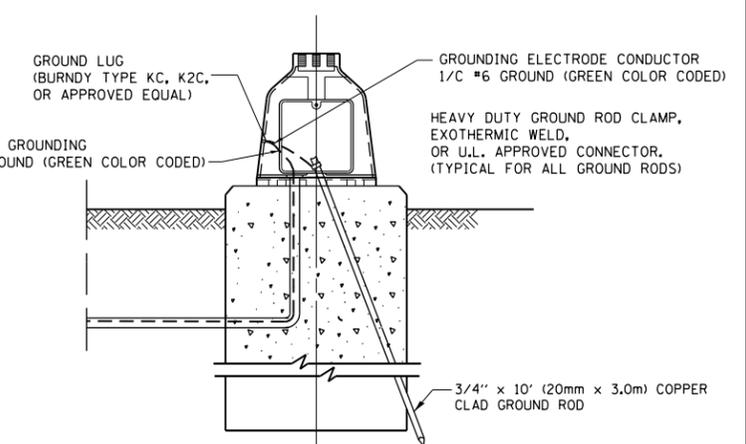
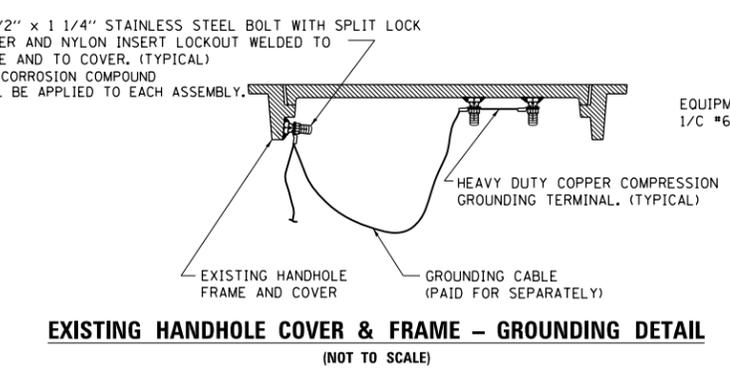


NOTES:
GROUNDING SYSTEM

1. 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 ENCLOSED. 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.
2. 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.
3. ALL EQUIPMENT GROUNDING CONDUCTORS SHALL TERMINATE AT THE GROUND BUS IN THE CONTROLLER CABINET.
4. THE CONTRACTOR SHALL PROVIDE A GROUND CABLE WITH CONNECTORS BETWEEN THE HANDHOLE COVER AND HANDHOLE FRAME.

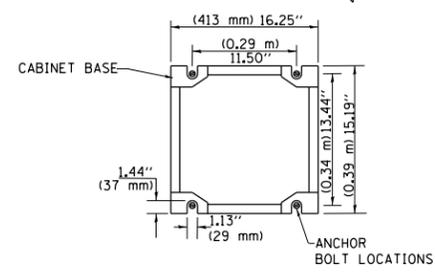


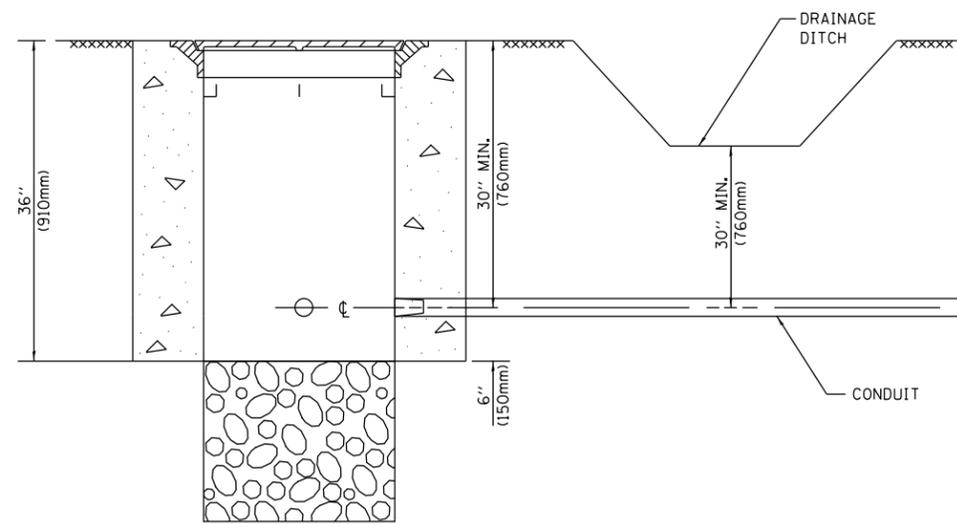
- NOTES:**
- ALL CLAMPS SHALL BE BRONZE OR COPPER, UL APPROVED.
 - GROUND CABLE SHALL BE LOOPED OVER HOOKS IN THE HANDHOLES 6.5' (2.0m) SLACK SHALL BE PROVIDED IN SINGLE HANDHOLES 13' (4.0m) OF SLACK SHALL BE PROVIDED IN DOUBLE HANDHOLES. 5' (1.4m) OF SLACK SHALL BE PROVIDED BETWEEN FRAME AND COVER.



SERVICE INSTALLATION GROUND MOUNT
 (NOT TO SCALE)

CABINET - BASE BOLT PATTERN
 (NOT TO SCALE)

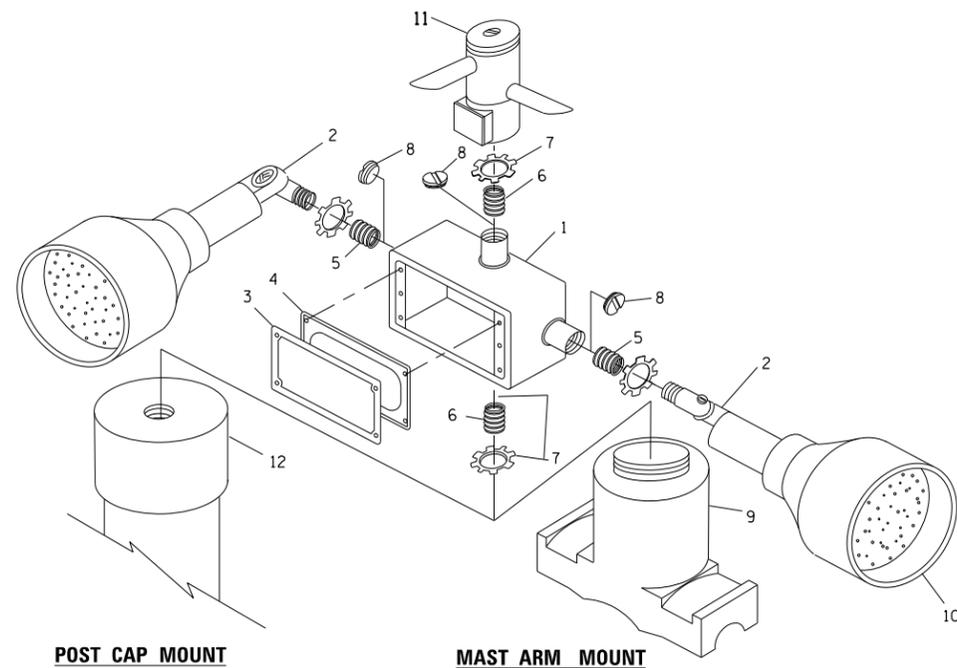




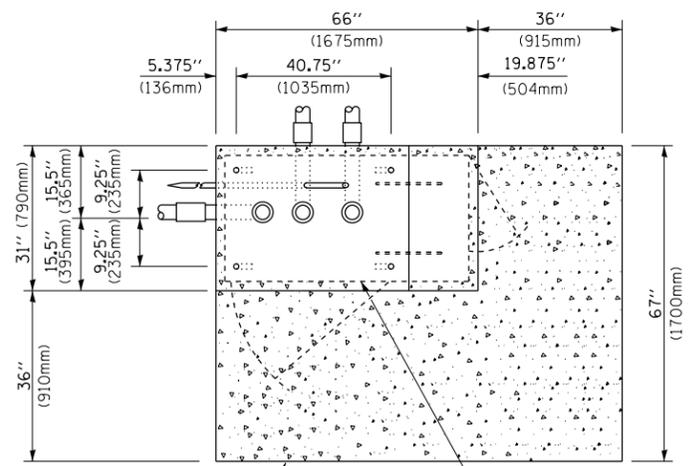
NOTES:

- 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.

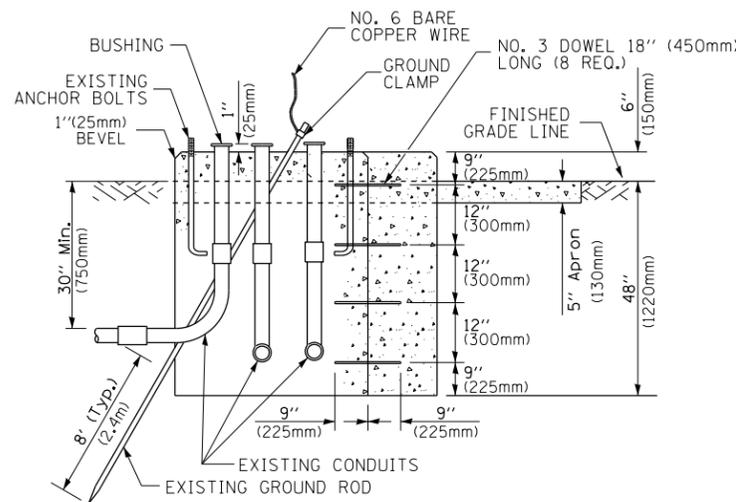
HANDHOLE WITH MINIMUM CONDUIT DEPTH
(NOT TO SCALE)



EMERGENCY VEHICLE DETECTOR WITH CONFIRMATION BEACON MOUNTING DETAIL



TOP VIEW
(NOT TO SCALE)

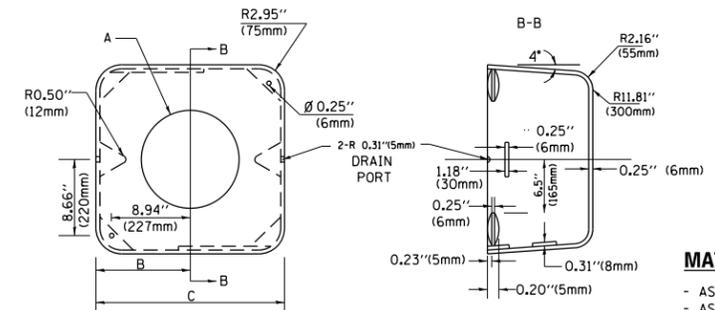


MODIFY EXISTING TYPE "D" FOUNDATION TO TYPE "C" FOUNDATION
(NOT TO SCALE)

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-0-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.



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

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

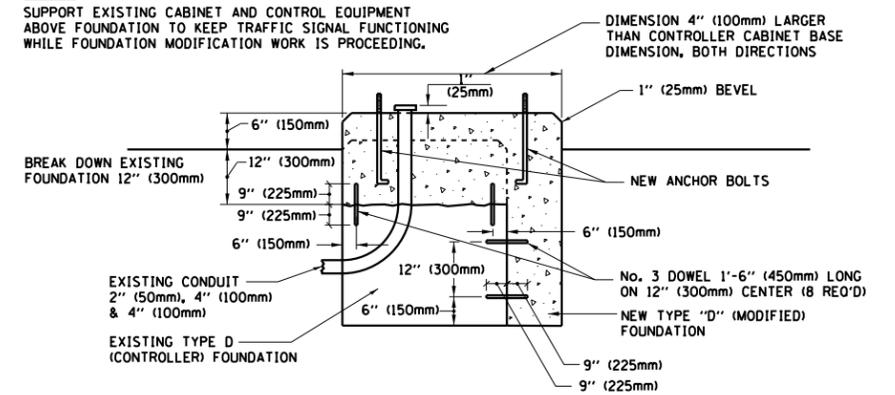
SHROUD

NOTES:

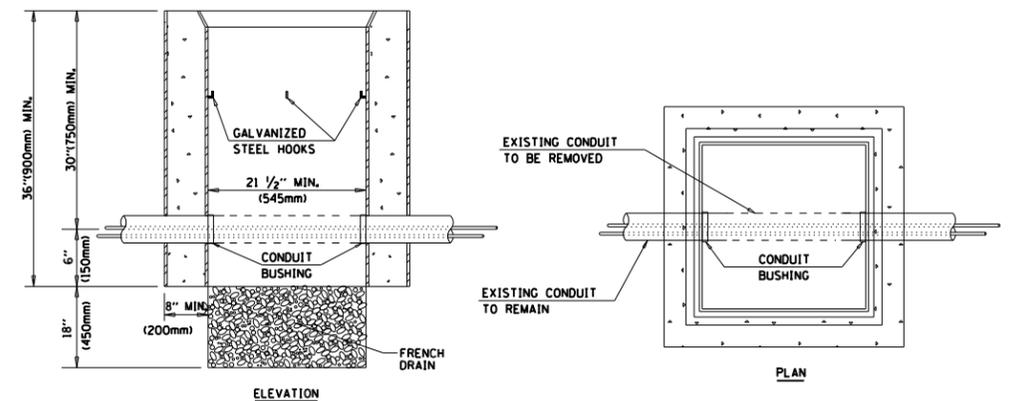
- DIMENSION "A" IS EQUAL TO THE DIAMETER OF THE MAST ARM POLE AT THE TOP OF THE SHROUD. THE SHROUD SHALL BE TIGHT TO THE MAST ARM POLE.
- THE SUPPLIER SHALL VERIFY THE ABOVE DIMENSIONS BASED ON MAST ARM REQUIREMENTS.
- THE HEIGHT OF THE SHROUD SHALL COVER THE ANCHOR BOLTS, NUTS AND MAST ARM POLE BASE.

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



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

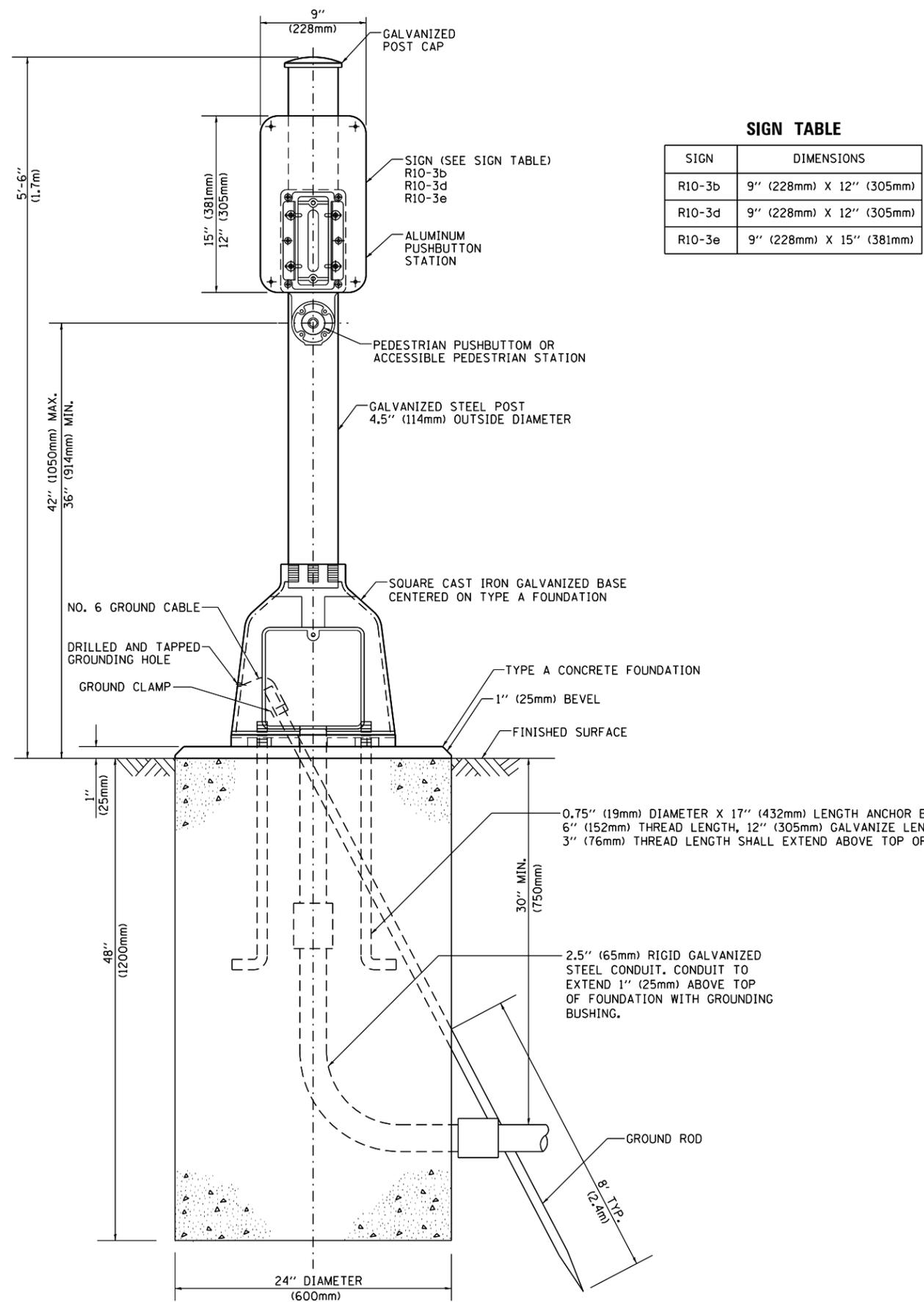
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Default	PLOT SCALE = 100.0000' / in.	DATE -	REVISED -
	PLOT DATE = 10/27/2016		

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DISTRICT ONE
STANDARD TRAFFIC SIGNAL DESIGN DETAILS

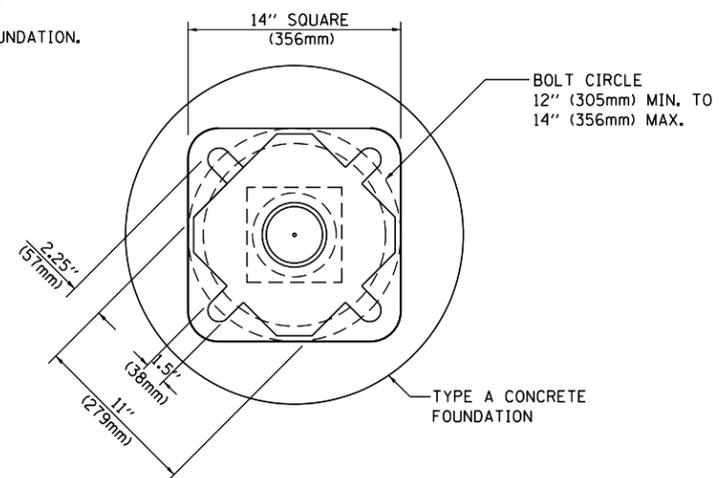
SCALE: NONE SHEET 6 OF 7 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3338.344	116TS&N-2	LAKE	102	41
	TS-05			
				CONTRACT NO. 60W92
ILLINOIS FED. AID PROJECT				



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)



BOLT PATTERN

PEDESTRIAN PUSH BUTTON POST, TYPE A

FILE NAME =	USER NAME = PencePL	DESIGNED -	REVISED -
p:\11084EBID\INTEG.illinois.gov\PIWIDOT\Documents\DOT Offices\District 1\Projects\PI704\DRAWING\Design\DistStd.dgn		CHECKED -	REVISED -
Default	PLOT DATE = 10/27/2016	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**DISTRICT ONE
STANDARD TRAFFIC SIGNAL DESIGN DETAILS**

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

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3338344	116TS&N-2	LAKE	102	42
TS-05		CONTRACT NO. 60W92		
ILLINOIS FED. AID PROJECT				

PROFILE
 CHECKED: []
 PLOTTED: []
 DATE: []
 BY: []
 TS SHT NO. 9

PLAN
 CHECKED: []
 PLOTTED: []
 DATE: []
 BY: []

SUBMITTED: []
 PLOTTED: []
 DATE: []
 BY: []

PROJECT: []
 DRAWING NO.: []
 TITLE: []

ENGINEER: []
 CHECKED: []
 DATE: []

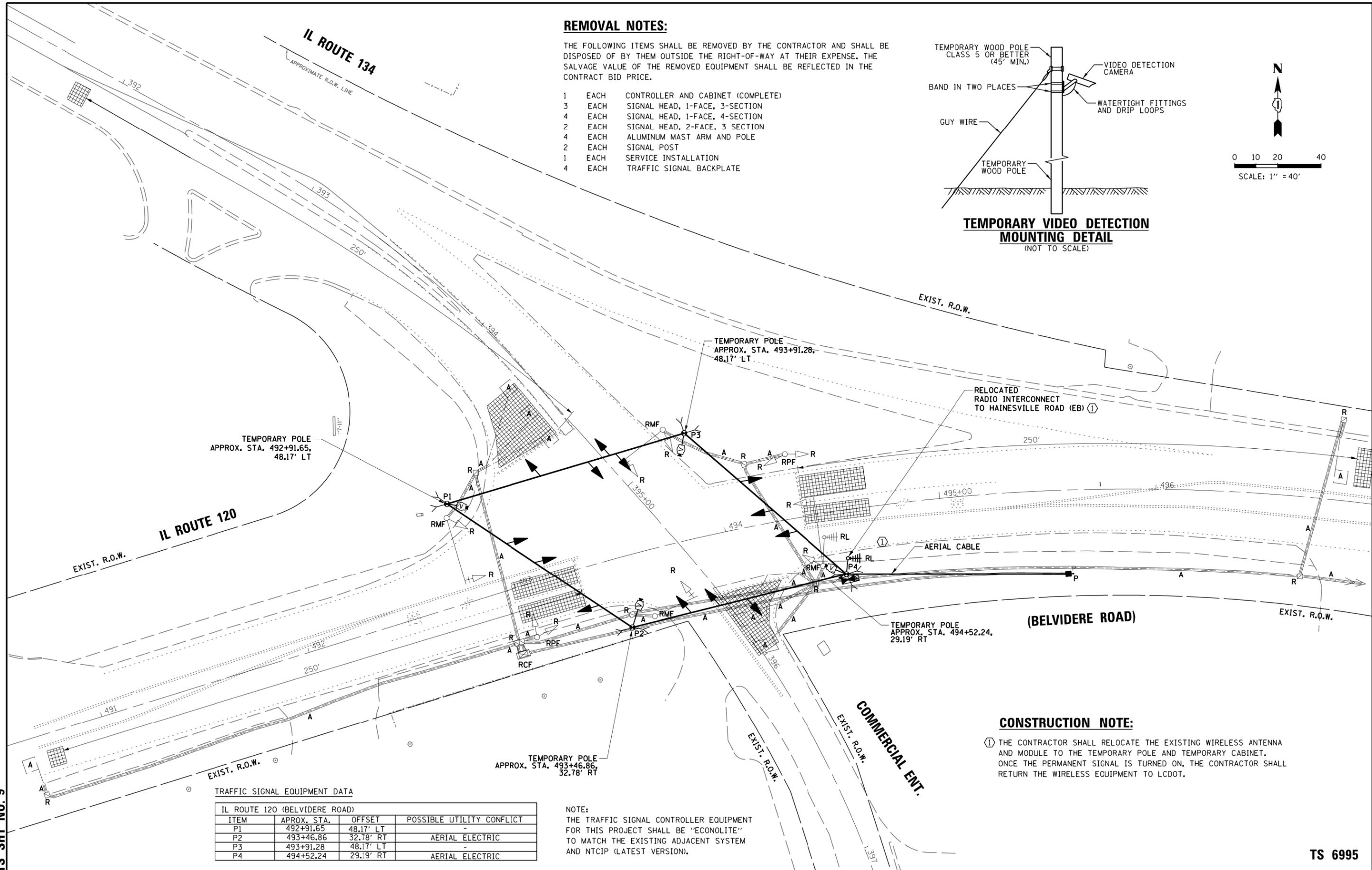
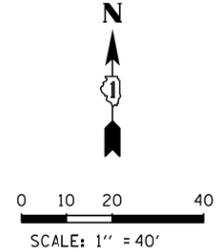
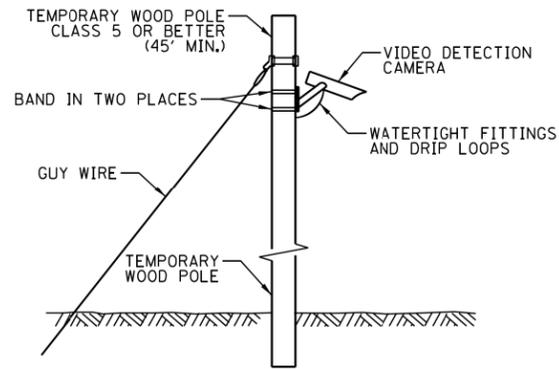
PROJECT: []
 DRAWING NO.: []
 TITLE: []

ENGINEER: []
 CHECKED: []
 DATE: []

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)
- 3 EACH SIGNAL HEAD, 1-FACE, 3-SECTION
- 4 EACH SIGNAL HEAD, 1-FACE, 4-SECTION
- 2 EACH SIGNAL HEAD, 2-FACE, 3 SECTION
- 4 EACH ALUMINUM MAST ARM AND POLE
- 2 EACH SIGNAL POST
- 1 EACH SERVICE INSTALLATION
- 4 EACH TRAFFIC SIGNAL BACKPLATE



TEMPORARY POLE
APPROX. STA. 492+91.65,
48.17' LT

TEMPORARY POLE
APPROX. STA. 493+91.28,
48.17' LT

TEMPORARY POLE
APPROX. STA. 494+52.24,
29.19' RT

TEMPORARY POLE
APPROX. STA. 493+46.86,
32.78' RT

TRAFFIC SIGNAL EQUIPMENT DATA

IL ROUTE 120 (BELVIDERE ROAD)			
ITEM	APROX. STA.	OFFSET	POSSIBLE UTILITY CONFLICT
P1	492+91.65	48.17' LT	-
P2	493+46.86	32.78' RT	AERIAL ELECTRIC
P3	493+91.28	48.17' LT	-
P4	494+52.24	29.19' RT	AERIAL ELECTRIC

NOTE:
THE TRAFFIC SIGNAL CONTROLLER EQUIPMENT FOR THIS PROJECT SHALL BE "ECONOLITE" TO MATCH THE EXISTING ADJACENT SYSTEM AND NTCIP (LATEST VERSION).

CONSTRUCTION NOTE:

① THE CONTRACTOR SHALL RELOCATE THE EXISTING WIRELESS ANTENNA AND MODULE TO THE TEMPORARY POLE AND TEMPORARY CABINET. ONCE THE PERMANENT SIGNAL IS TURNED ON, THE CONTRACTOR SHALL RETURN THE WIRELESS EQUIPMENT TO LCDOT.

TS SHT NO. 9

TS 6995

TEMPORARY CONTROLLER SEQUENCE

LEGEND:

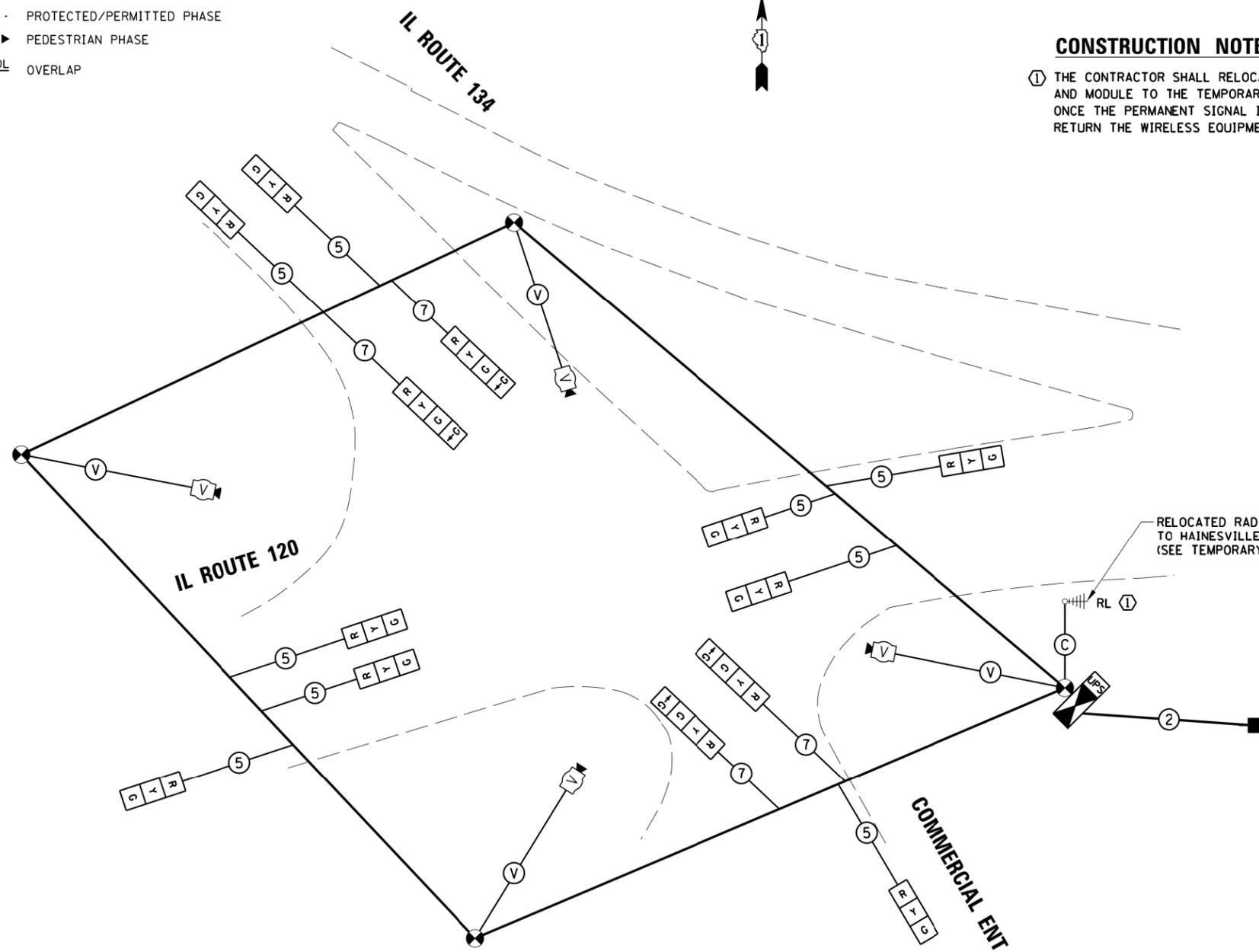
- ←(●)→ PROTECTED PHASE
- ←(●)·· PROTECTED/PERMITTED PHASE
- ←(●)→ PEDESTRIAN PHASE
- OL OVERLAP

CONSTRUCTION NOTE:

- ① THE CONTRACTOR SHALL RELOCATE THE EXISTING WIRELESS ANTENNA AND MODULE TO THE TEMPORARY POLE AND TEMPORARY CABINET. ONCE THE PERMANENT SIGNAL IS TURNED ON, THE CONTRACTOR SHALL RETURN THE WIRELESS EQUIPMENT TO LCDOT.

NOTE:

PHASES 3 AND 4 SHALL BE SPLIT PHASE.



TEMPORARY CABLE PLAN

NOTE:
THE TRAFFIC SIGNAL CONTROLLER EQUIPMENT FOR THIS PROJECT SHALL BE "ECONOLITE" TO MATCH THE EXISTING ADJACENT SYSTEM AND NTCIP (LATEST VERSION).

TRAFFIC SIGNAL ELECTRICAL SERVICE REQUIREMENTS

TYPE	NO. OF LAMPS	LED WATTAGE	% OPERATION	TOTAL WATTAGE
SIGNAL (RED)	13	11	50	71.5
(YELLOW)	13	20	5	13.0
(GREEN)	17	12	45	91.8
PERMISSIVE ARROW	-	10	10	-
PED. SIGNAL	-	20	100	-
CONTROLLER	1	100	100	100.0
UPS	1	25	100	25.0
VIDEO SYSTEM	1	150	100	150.0
BLANK-OUT SIGN	-	25	5	-
FLASHER	-	-	50	-
STREET NAME SIGN	-	120	50	-
-	-	-	-	-
ENERGY COSTS TO:				TOTAL = 451.3

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

ENERGY SUPPLY: CONTACT: NEW BUSINESS
PHONE: (866) 639-3532
COMPANY: COMMONWEALTH EDISON
ACCOUNT NUMBER: ---

DATE	BY	DATE	BY
DATE	BY	DATE	BY

CHRISTOPHER B. BURKE
ENGINEERING LTD.
201 West Center Court
Schaumburg, IL 60196
(847) 823-0500

TS SHT NO. 10

FILE NAME =	USER NAME = ejensen	DESIGNED - EAJ	REVISED -
N:\LCDOT\120226\6 - IL 120\Traffic\TCB_IL134.dgn		DRAWN - FPB	REVISED -
		CHECKED - GMZ	REVISED -
		DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TEMPORARY CABLE PLAN AND
TEMPORARY PHASE DESIGNATION DIAGRAM
IL ROUTE 120 AND IL ROUTE 134 / COMMERCIAL ENT.

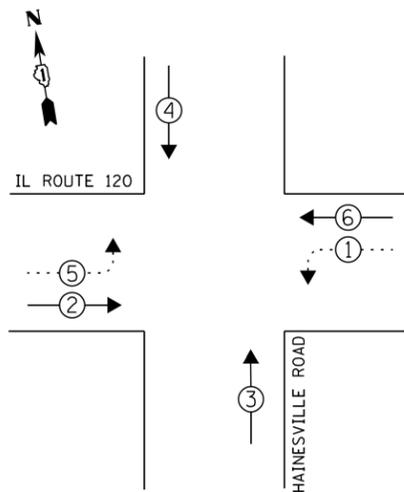
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3338344	116TS&N-2	LAKE	102	45
CONTRACT NO. 60W92				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

SCALE: N.T.S. SHEET NO. OF SHEETS STA. TO STA.

TS 6995

PROFILE
 CHECKED: _____
 PLOTTED: _____
 DATE: _____
 BY: _____
 NO. _____
 NOTE BOOK NO. _____
 STRUCTURE NOTATIONS CHECKED: _____
 STRUCTURE NOTATIONS CHECK: _____
 ENGINEERING LTD.
CHRISTOPHER B. BURKE
 205 West Center Court, Suite 600
 Schaumburg, IL 60196
 (847) 823-0500

TEMPORARY CONTROLLER SEQUENCE

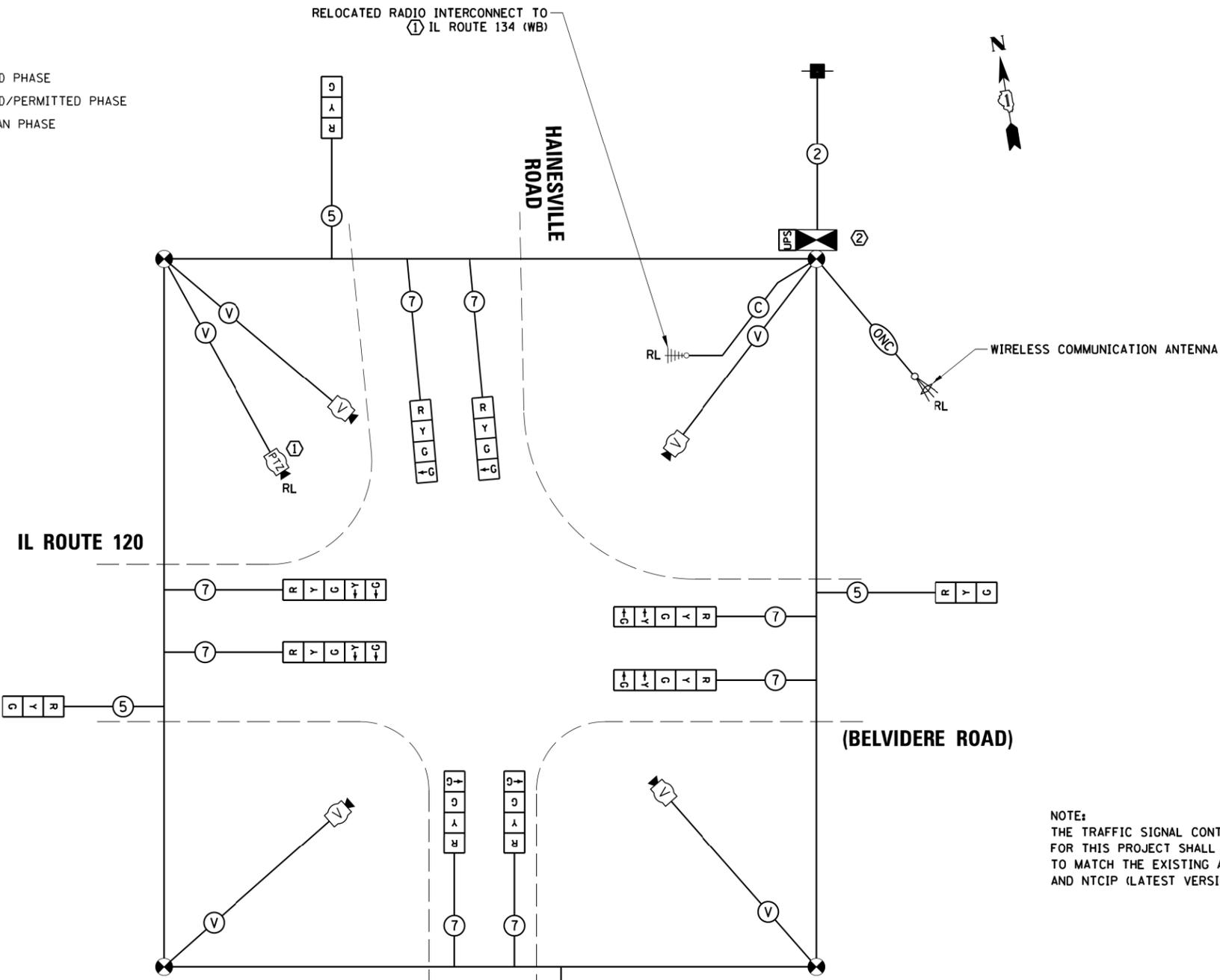


LEGEND:

- ← ⊙ → PROTECTED PHASE
- ← ⊙ · · ⊙ → PROTECTED/PERMITTED PHASE
- ← ⊙ ⊙ → PEDESTRIAN PHASE
- ⊙ OL OVERLAP

NOTE:

PHASES 3 AND 4 SHALL BE SPLIT PHASE.



NOTE:
 THE TRAFFIC SIGNAL CONTROLLER EQUIPMENT FOR THIS PROJECT SHALL BE "ECONOLITE" TO MATCH THE EXISTING ADJACENT SYSTEM AND NTCIP (LATEST VERSION).

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)	16	12	45	86.4
PERMISSIVE ARROW	8	10	10	8.0
PED. SIGNAL	-	20	100	40.0
CONTROLLER	1	100	100	100.0
UPS	1	25	100	25.0
VIDEO SYSTEM	1	150	100	150.0
BLANK-OUT SIGN	-	25	5	-
FLASHER	-	-	50	-
STREET NAME SIGN	-	120	50	-
-	-	-	-	-
ENERGY COSTS TO:			TOTAL =	447.4

ILLINOIS DEPARTMENT OF TRANSPORTATION
 DIVISION OF HIGHWAY/DISTRICT 1
 201 WEST CENTER COURT/SCHAUMBURG, ILLINOIS 60196-1096
 ENERGY SUPPLY: CONTACT: NEW BUSINESS
 PHONE: (866) 639-3532
 COMPANY: COMMONWEALTH EDISON
 ACCOUNT NUMBER: ---

TEMPORARY CABLE PLAN
(NOT TO SCALE)

CONSTRUCTION NOTES:

- ① THE CONTRACTOR SHALL REMOVE THE EXISTING WOOD POLE AND RELOCATE THE EXISTING WIRELESS INTERCONNECT FOR IL ROUTE 134, AND THE EXISTING LAYER II SWITCH, PTZ CAMERA, AND VIDEO ENCODER TO THE TEMPORARY TRAFFIC SIGNAL INSTALLATION. ALL COST ASSOCIATED WITH INSTALLING AND FURNISHING THE LUMINAIRE ARM AND MOUNTING BRACKETS FOR THE PTZ CAMERA SHALL BE INCLUDED IN THE COST OF THE PAY ITEM: TEMPORARY TRAFFIC SIGNAL INSTALLATION. THE PTZ CAMERA, VIDEO ENCODER, WIRELESS INTERCONNECT, AND LAYER II SWITCH SHALL REMAIN PROPERTY OF LCDOT, AND THE CONTRACTOR SHALL ARRANGE FOR THE EQUIPMENT'S DELIVERY AFTER THE PERMANENT TRAFFIC SIGNAL TURN-ON.
- ② THE CONTRACTOR SHALL RELOCATE THE EXISTING WIRELESS COMMUNICATION ANTENNA TO TRANSMIT THE VIDEO ENCODER AND LAYER II SWITCH DATA TO LCDOT. THE CABLE (ONC) FROM THE TRAFFIC SIGNAL CABINET TO THE ANTENNA SHALL BE PROVIDED BY THE CONTRACTOR. THE COST FOR PROVIDING THE CABLE, RELOCATING THE EXISTING WIRELESS COMMUNICATION ANTENNA AND PERIPHERAL EQUIPMENT SHALL BE INCLUDED IN THE UNIT COST OF THE TEMPORARY TRAFFIC SIGNAL INSTALLATION PAY ITEM. THE ANTENNA SHALL BE AIMED AT THE MUNDELEIN WATER TOWER (SOUTHEAST) NEAR IL 83 AND WINCHESTER ROAD. THE CONTRACTOR SHALL SCHEDULE A FIELD MEETING WITH LCDOT TRAFFIC (847-377-7000) TO AIM THE ANTENNA.

TS SHT NO. 15

TS 7000

FILE NAME = N:\LCDOT\120226\6 - IL 120\Traffic\TCB\HAINESVILLE.dgn	DESIGNED - EAJ	REVISIONS	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION		TEMPORARY CABLE PLAN AND TEMPORARY PHASE DESIGNATION DIAGRAM IL ROUTE 120 (BELVIDERE ROAD) AND HAINESVILLE ROAD		F.A.P. RTE. 3338344	SECTION 116TS&N-2	COUNTY LAKE	TOTAL SHEETS 102	SHEET NO. 50
PLOT SCALE = 48"	DRAWN - FPB	REVISIONS			SCALE: 1" = 20'		SHEET NO. OF SHEETS	STA. TO STA.	CONTRACT NO. 60W92		
PLOT DATE = 9/26/2016	CHECKED - GMZ	REVISIONS							FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT		

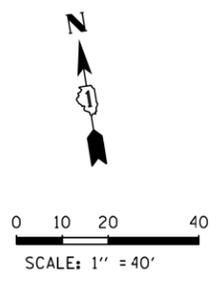
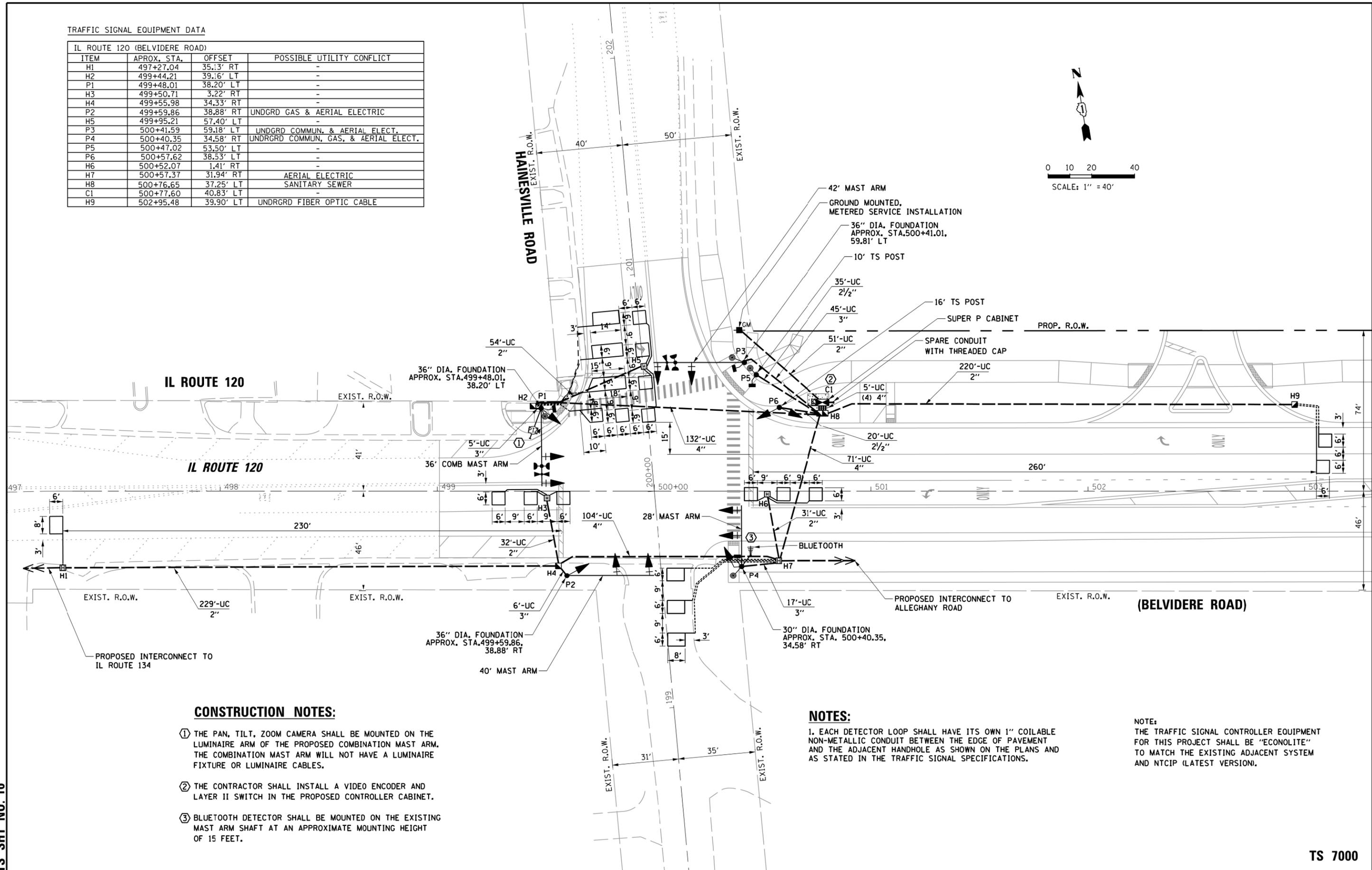
TRAFFIC SIGNAL EQUIPMENT DATA

IL ROUTE 120 (BELVIDERE ROAD)			
ITEM	APROX. STA.	OFFSET	POSSIBLE UTILITY CONFLICT
H1	497+27.04	35.13' RT	-
H2	499+44.21	39.16' LT	-
P1	499+48.01	38.20' LT	-
H3	499+50.71	3.22' RT	-
H4	499+55.98	34.33' RT	-
P2	499+59.86	38.88' RT	UNDRGRD GAS & AERIAL ELECTRIC
H5	499+95.21	57.40' LT	-
P3	500+41.59	59.18' LT	UNDRGRD COMMUN. & AERIAL ELECT.
P4	500+40.35	34.58' RT	UNDRGRD COMMUN, GAS, & AERIAL ELECT.
P5	500+47.02	53.50' LT	-
P6	500+57.62	38.53' LT	-
H6	500+52.07	1.41' RT	-
H7	500+57.37	31.94' RT	AERIAL ELECTRIC
H8	500+76.65	37.25' LT	SANITARY SEWER
C1	500+77.60	40.83' LT	-
H9	502+95.48	39.90' LT	UNDRGRD FIBER OPTIC CABLE

DATE: _____ BY: _____
 CHECKED: _____
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 ALIGNED: _____
 CHECKED: _____
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 CHECKED: _____
 PLOTTED: _____
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CHRISTOPHER B. BURKE
 ENGINEERING LTD.
 205 West Higgins Road, Suite 600
 Naperville, IL 60563
 (847) 823-0500

TS SHT NO. 16



CONSTRUCTION NOTES:

- ① THE PAN, TILT, ZOOM CAMERA SHALL BE MOUNTED ON THE LUMINAIRE ARM OF THE PROPOSED COMBINATION MAST ARM. THE COMBINATION MAST ARM WILL NOT HAVE A LUMINAIRE FIXTURE OR LUMINAIRE CABLES.
- ② THE CONTRACTOR SHALL INSTALL A VIDEO ENCODER AND LAYER II SWITCH IN THE PROPOSED CONTROLLER CABINET.
- ③ BLUETOOTH DETECTOR SHALL BE MOUNTED ON THE EXISTING MAST ARM SHAFT AT AN APPROXIMATE MOUNTING HEIGHT OF 15 FEET.

NOTES:

1. 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.

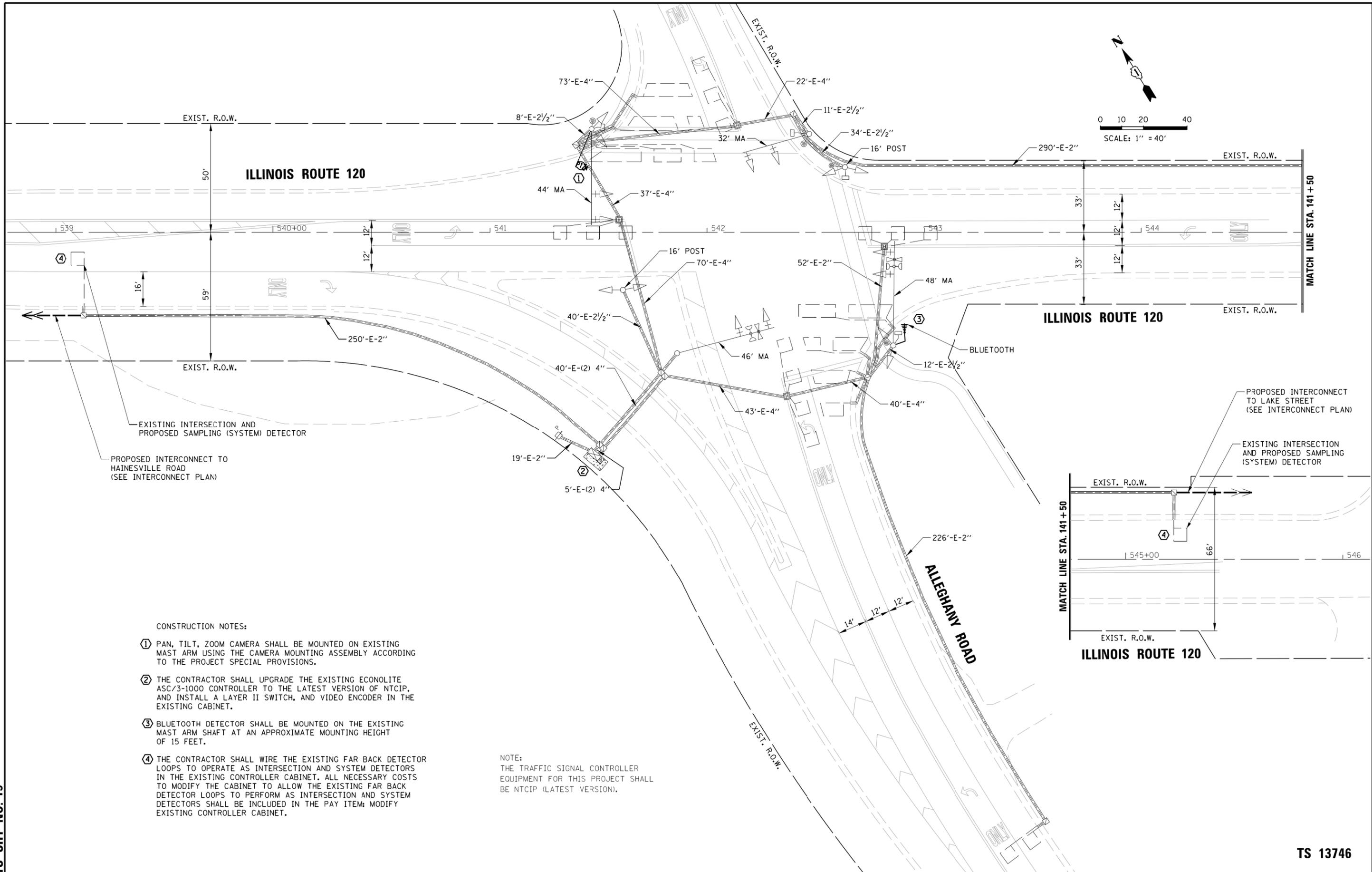
NOTE:
THE TRAFFIC SIGNAL CONTROLLER EQUIPMENT FOR THIS PROJECT SHALL BE "ECONOLITE" TO MATCH THE EXISTING ADJACENT SYSTEM AND NTCIP (LATEST VERSION).

FILE NAME = N:\CDDOT\1202225\6 - IL 120Traffic\TSD...HAINESVILLE.dgn	USER NAME = ejensen	DESIGNED - EAJ	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	TRAFFIC SIGNAL INSTALLATION PLAN IL ROUTE 120 AND HAINESVILLE ROAD	F.A.P. RTE. 3338344	SECTION 116TS&N-2	COUNTY LAKE	TOTAL SHEETS 102	SHEET NO. 51		
PLOT SCALE = 40'	CHECKED - GMZ	REVISIED -	REVISIED -			SCALE: 1" = 20'	SHEET NO. OF SHEETS	STA. TO STA.	CONTRACT NO. 60W92			
PLOT DATE = 9/26/2016	DATE -	REVISIED -	REVISIED -			FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT						

TS 7000

PROFILE
 CHECKED
 PLOTTED
 DATE
 BY
 ENGINEERING LTD.
 CHRISTOPHER B. BURKE
 205 West Higgins Road, Suite 600
 Naperville, IL 60563
 (847) 823-0500
 PLAN
 CHECKED
 PLOTTED
 DATE
 BY
 ENGINEERING LTD.
 CHRISTOPHER B. BURKE
 205 West Higgins Road, Suite 600
 Naperville, IL 60563
 (847) 823-0500
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TS SHT NO. 19



CONSTRUCTION NOTES:

- ① PAN, TILT, ZOOM CAMERA SHALL BE MOUNTED ON EXISTING MAST ARM USING THE CAMERA MOUNTING ASSEMBLY ACCORDING TO THE PROJECT SPECIAL PROVISIONS.
- ② THE CONTRACTOR SHALL UPGRADE THE EXISTING ECONOLITE ASC/3-1000 CONTROLLER TO THE LATEST VERSION OF NTCIP, AND INSTALL A LAYER II SWITCH, AND VIDEO ENCODER IN THE EXISTING CABINET.
- ③ BLUETOOTH DETECTOR SHALL BE MOUNTED ON THE EXISTING MAST ARM SHAFT AT AN APPROXIMATE MOUNTING HEIGHT OF 15 FEET.
- ④ THE CONTRACTOR SHALL WIRE THE EXISTING FAR BACK DETECTOR LOOPS TO OPERATE AS INTERSECTION AND SYSTEM DETECTORS IN THE EXISTING CONTROLLER CABINET. ALL NECESSARY COSTS TO MODIFY THE CABINET TO ALLOW THE EXISTING FAR BACK DETECTOR LOOPS TO PERFORM AS INTERSECTION AND SYSTEM DETECTORS SHALL BE INCLUDED IN THE PAY ITEM; MODIFY EXISTING CONTROLLER CABINET.

NOTE:
THE TRAFFIC SIGNAL CONTROLLER EQUIPMENT FOR THIS PROJECT SHALL BE NTCIP (LATEST VERSION).

FILE NAME =	USER NAME = ejensen	DESIGNED - EAJ	REVISED -
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		CHECKED - GMZ	REVISED -
		DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TRAFFIC SIGNAL MODIFICATION PLAN
IL ROUTE 120 (BELVIDERE ROAD) AND ALLEGHANY ROAD

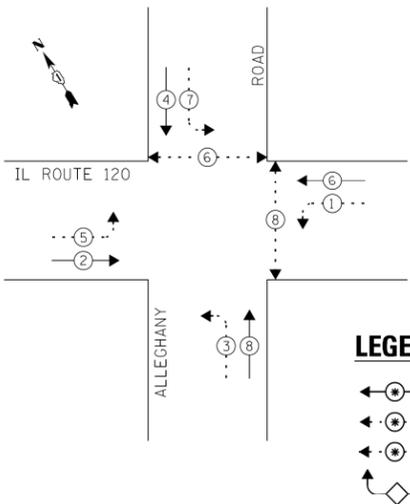
F.A.P. RTE. 3338344	SECTION 116TS&N-2	COUNTY LAKE	TOTAL SHEETS 102	SHEET NO. 54
CONTRACT NO. 60W92				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

TS 13746

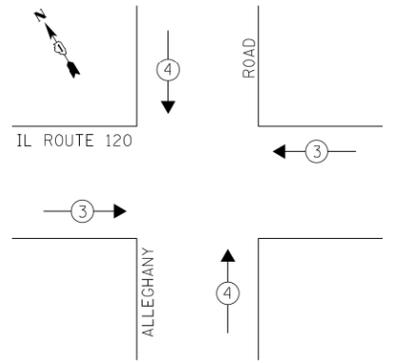
BY: [Signature] DATE: []
 CHECKED: [Signature] DATE: []
 PROFILE: [Signature] DATE: []
 NOTE BOOK NO.: []
 STRUCTURE: [] NOTATIONS: CHKD

TS SHT NO. 20
 VILLAGE OF GRAYSLAKE
 10 SOUTH SEYMOUR AVENUE
 GRAYSLAKE, IL 60030
 ENERGY SUPPLY: PHONE: (866) 639-3532
 COMPANY: COMED - NEW BUSINESS

EXISTING CONTROLLER SEQUENCE



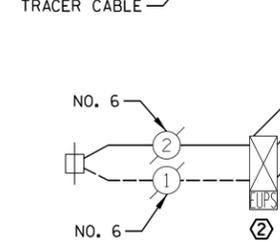
EXISTING EMERGENCY VEHICLE PREEMPTION SEQUENCE



ILLINOIS ROUTE 120

EXISTING INTERSECTION AND PROPOSED SAMPLING (SYSTEM) DETECTOR

PROPOSED INTERCONNECT TO HAINESVILLE ROAD

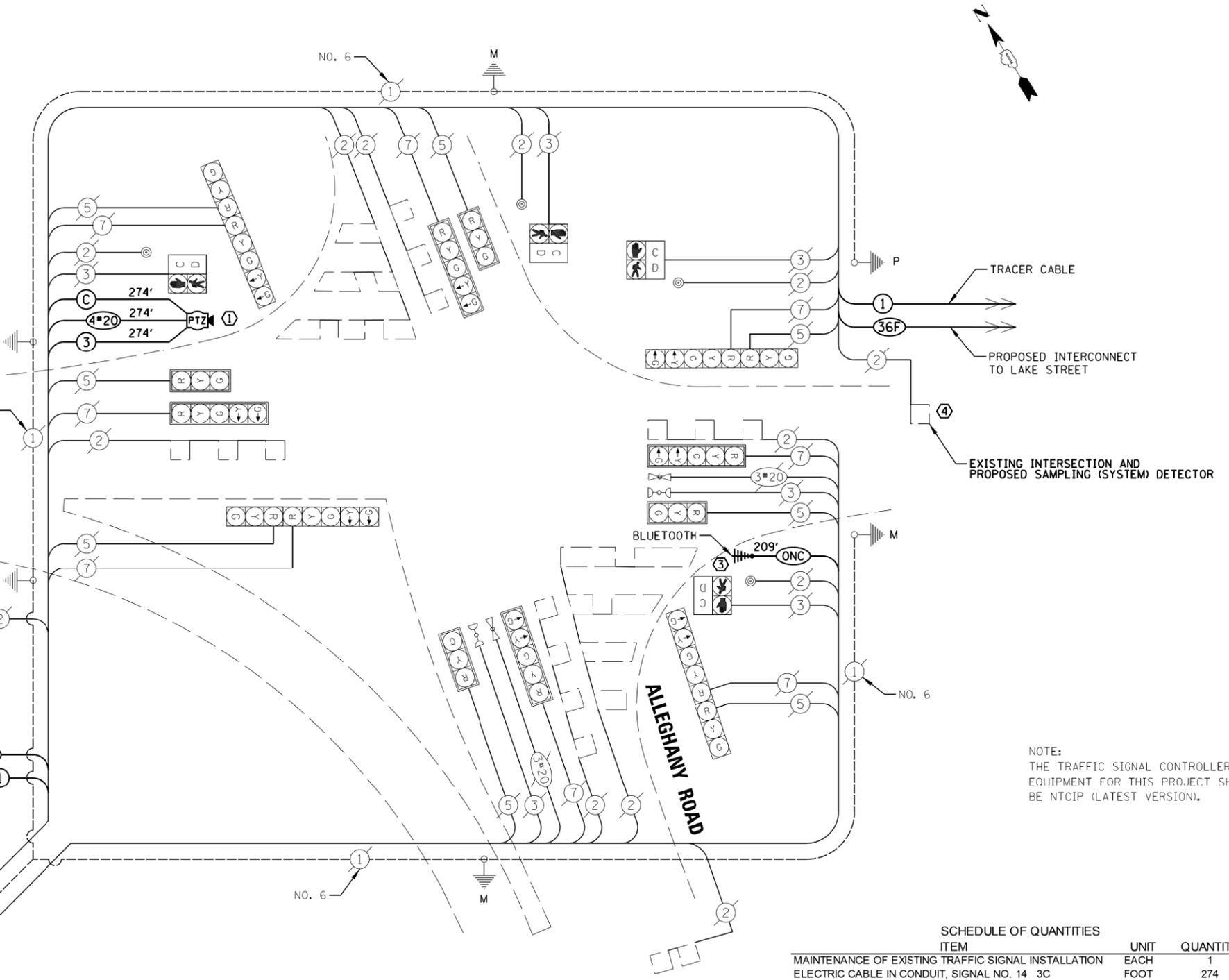


CONSTRUCTION NOTES:

- PAN, TILT, ZOOM CAMERA SHALL BE MOUNTED ON EXISTING MAST ARM USING THE CAMERA MOUNTING ASSEMBLY ACCORDING TO THE PROJECT SPECIAL PROVISIONS.
- THE CONTRACTOR SHALL UPGRADE THE EXISTING ECONOLITE ASC/3-1000 CONTROLLER TO THE LATEST VERSION OF NTCIP, AND INSTALL A LAYER II SWITCH, AND VIDEO ENCODER IN THE EXISTING CABINET.
- BLUETOOTH DETECTOR SHALL BE MOUNTED ON THE EXISTING MAST ARM SHAFT AT AN APPROXIMATE MOUNTING HEIGHT OF 15 FEET.
- THE CONTRACTOR SHALL WIRE THE EXISTING FAR BACK DETECTOR LOOPS TO OPERATE AS INTERSECTION AND SYSTEM DETECTORS IN THE EXISTING CONTROLLER CABINET. ALL NECESSARY COSTS TO MODIFY THE CABINET TO ALLOW THE EXISTING FAR BACK DETECTOR LOOPS TO PERFORM AS INTERSECTION AND SYSTEM DETECTORS SHALL BE INCLUDED IN THE PAY ITEM: MODIFY EXISTING CONTROLLER CABINET.

I.D.O.T. TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS					TOTAL WATTAGE
TYPE	NO. OF LAMPS	WATTAGE x INCAND.	LED	% OPERATION	
SIGNAL (RED)	16		17	0.50	136.0
(YELLOW)	16		25	0.25	100.0
(GREEN)	16		15	0.25	60.0
ARROW	16		12	0.10	19.2
PED. SIGNAL	4		25	1.00	100.0
CONTROLLER	1		100	1.00	100.0
LUMINAIRE	-		250	0.50	-
ILLUMINATED SIGN	-		25	0.50	-
VIDEO SYSTEM	-		150	1.00	-
BATTERY BACKUP SYSTEM	1		25	1.00	25.0
FLASHER	-		25	0.50	-
ENERGY COSTS TO:					TOTAL = 540.2

CABLE PLAN



NOTE: THE TRAFFIC SIGNAL CONTROLLER EQUIPMENT FOR THIS PROJECT SHALL BE NTCIP (LATEST VERSION).

SCHEDULE OF QUANTITIES

ITEM	UNIT	QUANTITY
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	274
MODIFY EXISTING CONTROLLER CABINET	EACH	1
ELECTRIC CABLE IN CONDUIT, COAXIAL	FOOT	274
ELECTRIC CABLE IN CONDUIT, VIDEO, NO. 20 4 C	FOOT	274
REMOTE CONTROLLED VIDEO SYSTEM	EACH	1
LAYER II (DATALINK) SWITCH	EACH	1
VIDEO ENCODER	EACH	1
UPGRADE EXISTING CONTROLLER TO NTCIP SPECIAL	EACH	1
OUTDOOR RATED NETWORK CABLE	FOOT	209
BLUETOOTH DETECTOR	EACH	1
CAMERA MOUNTING ASSEMBLY	EACH	1

FILE NAME: N:\CDDOT\120226\6 - IL 120\Traffic\CAB...
 USER NAME: ejensen
 DESIGNED: EAJ
 DRAWN: FPB
 CHECKED: GMZ
 DATE: 9/26/2016

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

SCHEDULE OF QUANTITIES, CABLE PLAN, PHASE DESIGNATION DIAGRAM AND EMERGENCY VEHICLE PREEMPTION SEQUENCE
 IL ROUTE 120 AND ALLEGHANY ROAD

F.A.P. RTE. 3338344	SECTION 116TS&N-2	COUNTY LAKE	TOTAL SHEETS 102	SHEET NO. 55
SCALE: N.T.S.		SHEET NO. OF SHEETS	STA. TO STA.	
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

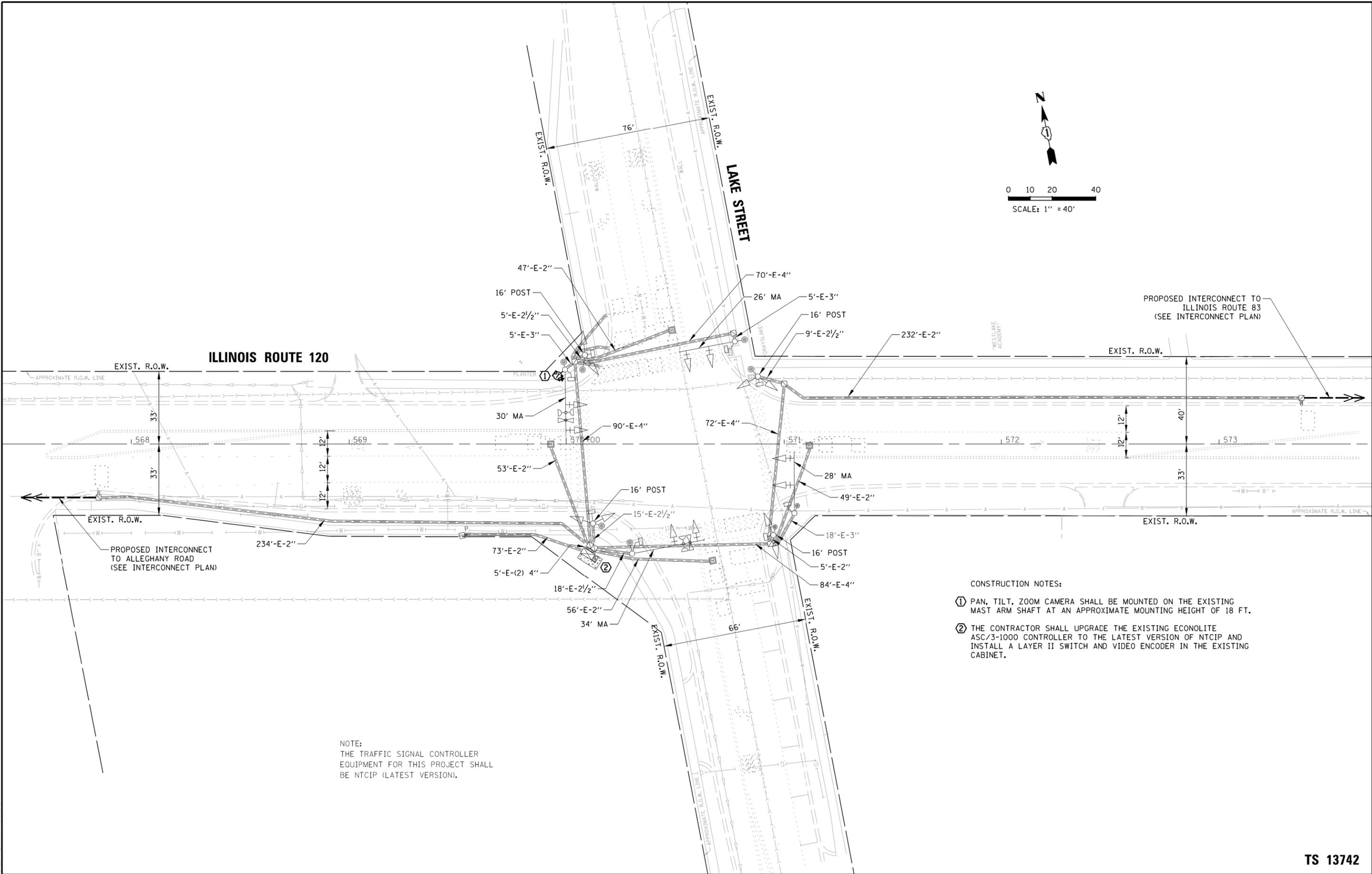
TS 13746

DATE	BY	DATE	BY
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DATE	BY	DATE	BY

CHRISTOPHER B. BURKE
 ENGINEERING LTD.
 205 West Higgins Road, Suite 600
 Rosemont, Illinois 60018
 (847) 823-0500

PROFILE
 CHECKED
 PLOTTED
 NOTE BOOK
 NO.

TS SHT NO. 21



- CONSTRUCTION NOTES:
- ① PAN, TILT, ZOOM CAMERA SHALL BE MOUNTED ON THE EXISTING MAST ARM SHAFT AT AN APPROXIMATE MOUNTING HEIGHT OF 18 FT.
 - ② THE CONTRACTOR SHALL UPGRADE THE EXISTING ECONOLITE ASC/3-1000 CONTROLLER TO THE LATEST VERSION OF NTCIP AND INSTALL A LAYER II SWITCH AND VIDEO ENCODER IN THE EXISTING CABINET.

NOTE:
 THE TRAFFIC SIGNAL CONTROLLER EQUIPMENT FOR THIS PROJECT SHALL BE NTCIP (LATEST VERSION).

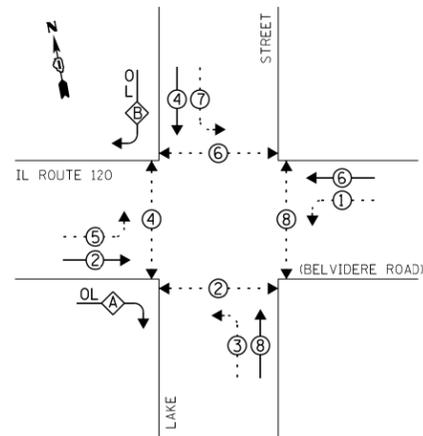
FILE NAME = N:\LC00T\120226\6 - IL 120Traffic\MOD\1AKE.dgn	USER NAME = ejensen	DESIGNED - EAJ	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	TRAFFIC SIGNAL MODIFICATION PLAN IL ROUTE 120 AND LAKE STREET				F.A.P. RTE. 3338344	SECTION 116TS&N-2	COUNTY LAKE	TOTAL SHEETS 102	SHEET NO. 56
	PLOT SCALE = 40'	CHECKED - GMZ	REVISED -		SCALE: 1" = 20'	SHEET NO.	OF SHEETS	STA.	TO STA.	CONTRACT NO. 60W92			
	PLOT DATE = 9/26/2016	DATE -	REVISED -		FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT								

TS 13742

BY: [Signature] DATE: []
 CHECKED: [Signature] DATE: []
 PLOTTED: [Signature] DATE: []
 PROFILE: [Signature] DATE: []
 NOTE BOOK NO. []
 STRUCTURE NOTATION: []
 FILE NAME: N:\L\CDOT\120226\6 - IL 120\Traffic\CABLING.dgn

TS SHT NO. 22
 CHRISTOPHER B. BURKE ENGINEERING LTD.
 205 West Main Street, Suite 600
 Schaumburg, IL 60196
 (847) 823-0500

EXISTING CONTROLLER SEQUENCE



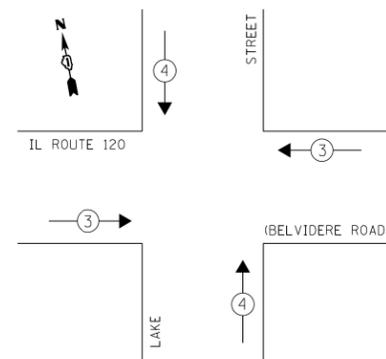
LEGEND:

- ← ⊙ → PROTECTED PHASE
- ← ⊙ · · ⊙ → PROTECTED/PERMITTED PHASE
- ← ⊙ ⊙ → PEDESTRIAN PHASE
- ⊙ OL ⊙ OVERLAP

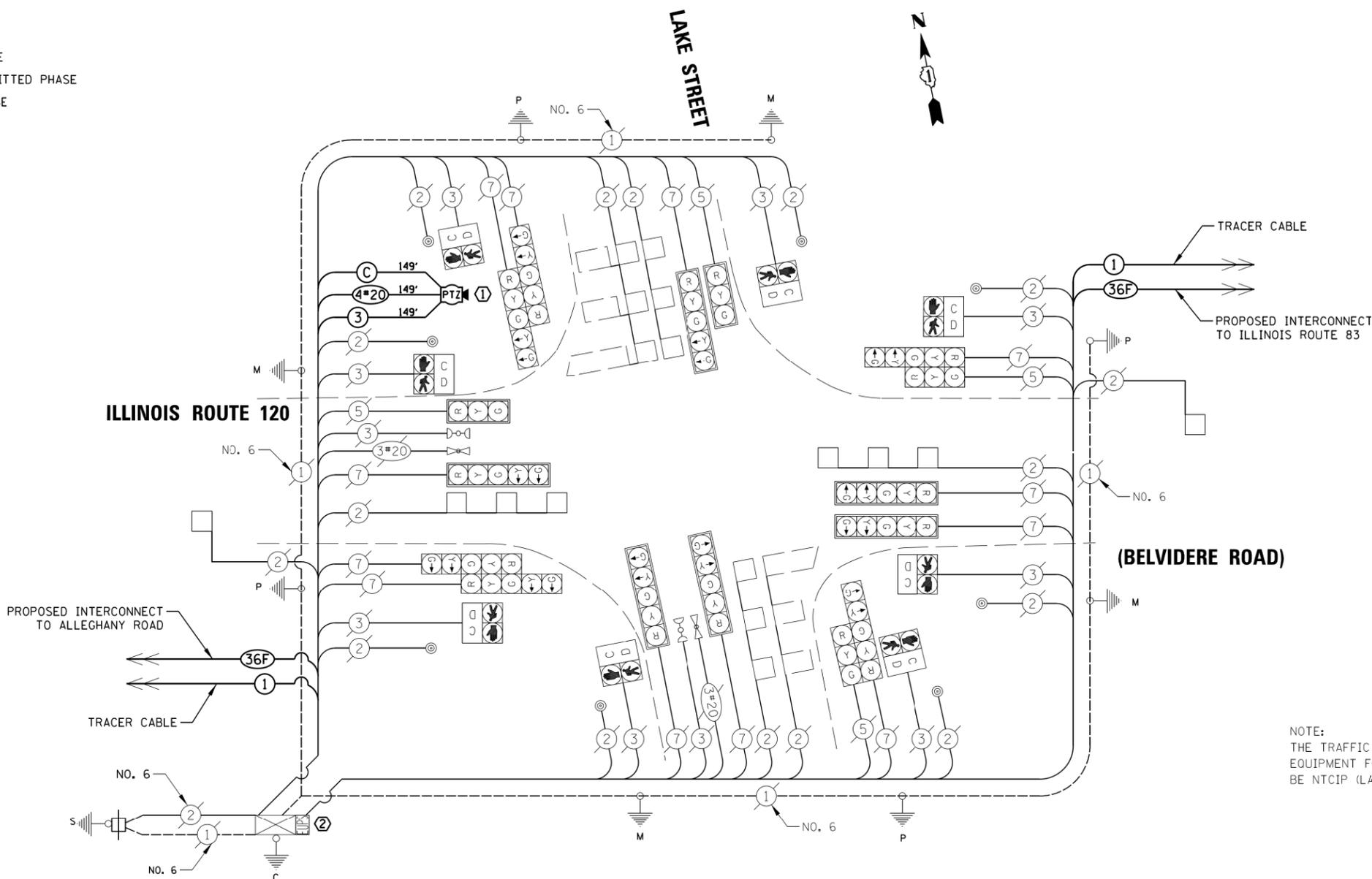
RIGHT TURN OVERLAP PHASE DESIGNATION

OVERLAP LETTER	PERMISSIVE PHASE	PROTECTED PHASE
A =	2 +	3
B =	4 +	5

EXISTING EMERGENCY VEHICLE PREEMPTION SEQUENCE



ILLINOIS ROUTE 120



CABLE PLAN

CONSTRUCTION NOTES:

- ① PAN, TILT, ZOOM CAMERA SHALL BE MOUNTED ON THE EXISTING MAST ARM SHAFT AT AN APPROXIMATE MOUNTING HEIGHT OF 18 FT.
- ② THE CONTRACTOR SHALL UPGRADE THE EXISTING ECONOLITE ASC/3-1000 CONTROLLER TO THE LATEST VERSION OF NTCIP AND INSTALL A LAYER II SWITCH AND VIDEO ENCODER IN THE EXISTING CABINET.

NOTE: THE TRAFFIC SIGNAL CONTROLLER EQUIPMENT FOR THIS PROJECT SHALL BE NTCIP (LATEST VERSION).

I.D.O.T. TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS					TOTAL WATTAGE
TYPE	NO. OF LAMPS	WATTAGE x INCAND.	LED x % OPERATION		
SIGNAL (RED)	16	17	0.50	136.00	
(YELLOW)	16	25	0.25	100.00	
(GREEN)	16	15	0.25	60.0	
ARROW	24	12	0.10	28.80	
PED. SIGNAL	8	25	1.00	200.0	
CONTROLLER	1	100	1.00	100.0	
LUMINAIRE	-	250	0.50	-	
ILLUMINATED SIGN	-	25	0.50	-	
VIDEO SYSTEM	-	150	1.00	-	
BATTERY BACKUP SYSTEM	-	25	1.00	-	
FLASHER	-	25	0.50	-	
ENERGY COSTS TO:				TOTAL =	624.80

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

ENERGY SUPPLY: PHONE: (847) 816-5492
 COMPANY: MAUREEN RAYE

FILE NAME = N:\L\CDOT\120226\6 - IL 120\Traffic\CABLING.dgn	USER NAME = ejensen	DESIGNED - EAJ	REVISED -
		DRAWN - FPB	REVISED -
		CHECKED - GMZ	REVISED -
		DATE -	REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

SCHEDULE OF QUANTITIES, CABLE PLAN, PHASE DESIGNATION DIAGRAM AND EMERGENCY VEHICLE PREEMPTION SEQUENCE
 ILL ROUTE 120 AND LAKE STREET

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

SCHEDULE OF QUANTITIES

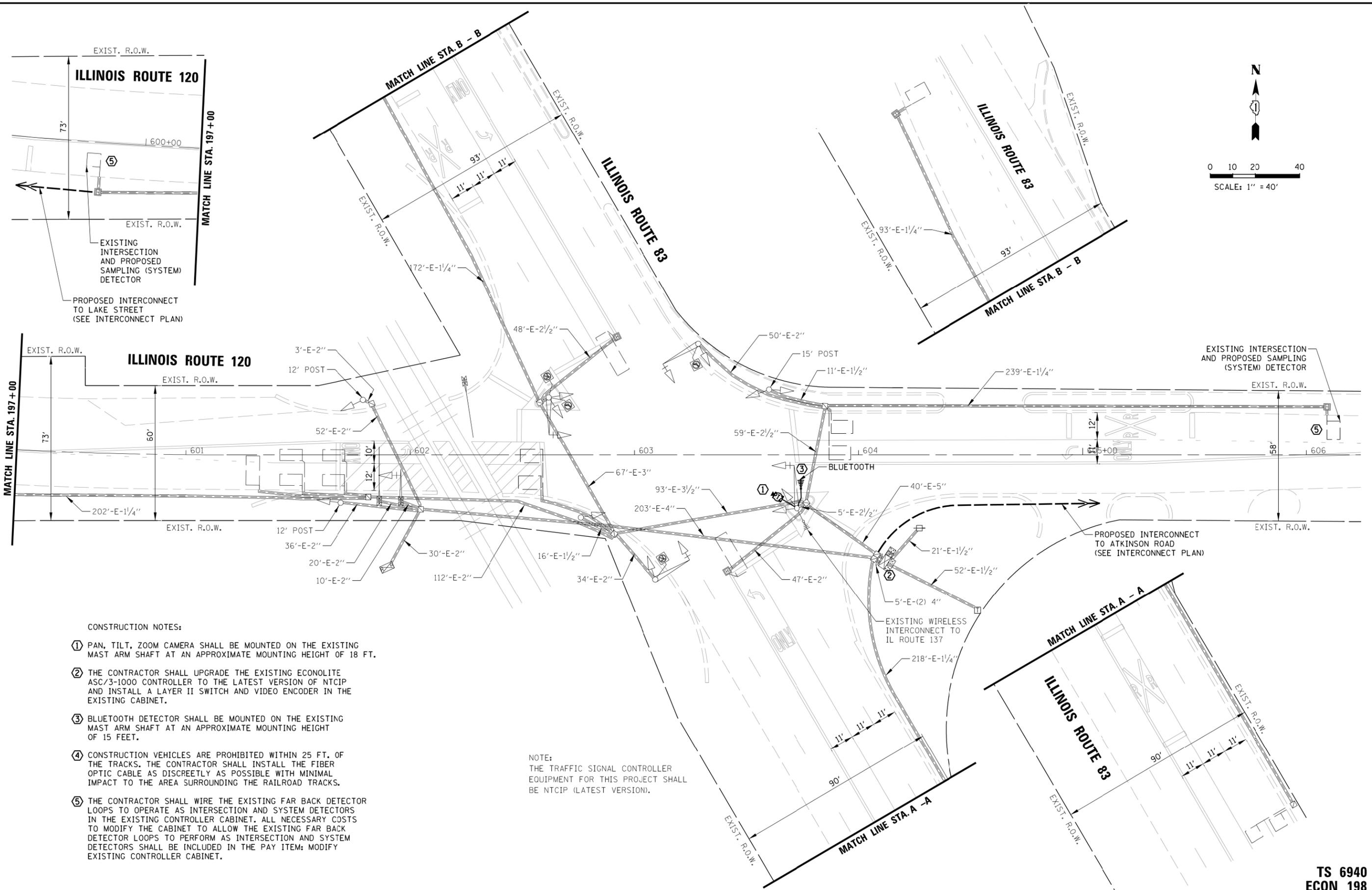
ITEM	UNIT	QUANTITY
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	149
ELECTRIC CABLE IN CONDUIT, COAXIAL	FOOT	149
ELECTRIC CABLE IN CONDUIT, VIDEO, NO. 20 4 C	FOOT	149
REMOTE CONTROLLED VIDEO SYSTEM	EACH	1
LAYER II (DATALINK) SWITCH	EACH	1
VIDEO ENCODER	EACH	1
UPGRADE EXISTING CONTROLLER TO NTCIP SPECIAL	EACH	1

TS 13742

F.A.P. RTE. 3338344	SECTION 116TS&N-2	COUNTY LAKE	TOTAL SHEETS 102	SHEET NO. 57
FED. ROAD DIST. NO. ILLINOIS		FED. AID PROJECT		

DATE	BY	PROJECT	DATE
		ILLINOIS ROUTE 120 AND ILLINOIS ROUTE 83	
DATE	BY	PROJECT	DATE
		ILLINOIS ROUTE 120 AND ILLINOIS ROUTE 83	
DATE	BY	PROJECT	DATE
		ILLINOIS ROUTE 120 AND ILLINOIS ROUTE 83	

TS SHT NO. 23



- CONSTRUCTION NOTES:
- PAN, TILT, ZOOM CAMERA SHALL BE MOUNTED ON THE EXISTING MAST ARM SHAFT AT AN APPROXIMATE MOUNTING HEIGHT OF 18 FT.
 - THE CONTRACTOR SHALL UPGRADE THE EXISTING ECONOLITE ASC/3-1000 CONTROLLER TO THE LATEST VERSION OF NTCIP AND INSTALL A LAYER II SWITCH AND VIDEO ENCODER IN THE EXISTING CABINET.
 - BLUETOOTH DETECTOR SHALL BE MOUNTED ON THE EXISTING MAST ARM SHAFT AT AN APPROXIMATE MOUNTING HEIGHT OF 15 FEET.
 - CONSTRUCTION VEHICLES ARE PROHIBITED WITHIN 25 FT. OF THE TRACKS. THE CONTRACTOR SHALL INSTALL THE FIBER OPTIC CABLE AS DISCREETLY AS POSSIBLE WITH MINIMAL IMPACT TO THE AREA SURROUNDING THE RAILROAD TRACKS.
 - THE CONTRACTOR SHALL WIRE THE EXISTING FAR BACK DETECTOR LOOPS TO OPERATE AS INTERSECTION AND SYSTEM DETECTORS IN THE EXISTING CONTROLLER CABINET. ALL NECESSARY COSTS TO MODIFY THE CABINET TO ALLOW THE EXISTING FAR BACK DETECTOR LOOPS TO PERFORM AS INTERSECTION AND SYSTEM DETECTORS SHALL BE INCLUDED IN THE PAY ITEM; MODIFY EXISTING CONTROLLER CABINET.

NOTE:
THE TRAFFIC SIGNAL CONTROLLER EQUIPMENT FOR THIS PROJECT SHALL BE NTCIP (LATEST VERSION).

FILE NAME =	USER NAME = ejensen	DESIGNED - EAJ	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	TRAFFIC SIGNAL MODIFICATION PLAN ILLINOIS ROUTE 120 AND ILLINOIS ROUTE 83			F.A.P. RTE. 3338344	SECTION 116TS&N-2	COUNTY LAKE	TOTAL SHEETS 102	SHEET NO. 58			
		DRAWN - FPB	REVISED -					SCALE: 1" = 20'	SHEET NO.	OF SHEETS	STA.	TO STA.	FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT	CONTRACT NO. 60W92
		CHECKED - GMZ	REVISED -												
		DATE - 9/26/2016	REVISED -												

DATE	BY	DATE	BY
REVISIONS	DATE	BY	DESCRIPTION
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TS SHT NO. 24

I.D.O.T. TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS					TOTAL WATTAGE
TYPE	NO. OF LAMPS	WATTAGE x INCAND.	LED	% OPERATION	
SIGNAL (RED)	16		17	0.50	136.0
(YELLOW)	16		25	0.25	100.0
(GREEN)	16		15	0.25	19.75
ARROW	10		12	0.10	12.0
PED. SIGNAL	2		25	1.00	50.0
CONTROLLER	1		100	1.00	100.0
LUMINAIRE	-		250	0.50	-
ILLUMINATED SIGN	-		25	0.50	-
VIDEO SYSTEM	-		150	1.00	-
BATTERY BACKUP SYSTEM	-		25	1.00	-
FLASHER	-		25	0.50	-
ENERGY COSTS TO:					TOTAL = 417.75

VILLAGE OF GRAYSLAKE
10 SOUTH SEYMOUR AVENUE
GRAYSLAKE, IL 60030

ENERGY SUPPLY: PHONE: (866) 639-3532
COMPANY: COMED - NEW BUSINESS

- CONSTRUCTION NOTES:
- PAN, TILT, ZOOM CAMERA SHALL BE MOUNTED ON THE EXISTING MAST ARM SHAFT AT AN APPROXIMATE MOUNTING HEIGHT OF 18 FT.
 - THE CONTRACTOR SHALL UPGRADE THE EXISTING ECONOLITE ASC/3-1000 CONTROLLER TO THE LATEST VERSION OF NTCIP AND INSTALL A LAYER II SWITCH AND VIDEO ENCODER IN THE EXISTING CABINET.
 - BLUETOOTH DETECTOR SHALL BE MOUNTED ON THE EXISTING MAST ARM SHAFT AT AN APPROXIMATE MOUNTING HEIGHT OF 15 FEET.
 - CONSTRUCTION VEHICLES ARE PROHIBITED WITHIN 25 FT. OF THE TRACKS, THE CONTRACTOR SHALL INSTALL THE FIBER OPTIC CABLE AS DISCREETLY AS POSSIBLE WITH MINIMAL IMPACT TO THE AREA SURROUNDING THE RAILROAD TRACKS.
 - THE CONTRACTOR SHALL WIRE THE EXISTING FAR BACK DETECTOR LOOPS TO OPERATE AS INTERSECTION AND SYSTEM DETECTORS IN THE EXISTING CONTROLLER CABINET. ALL NECESSARY COSTS TO MODIFY THE CABINET TO ALLOW THE EXISTING FAR BACK DETECTOR LOOPS TO PERFORM AS INTERSECTION AND SYSTEM DETECTORS SHALL BE INCLUDED IN THE PAY ITEM: MODIFY EXISTING CONTROLLER CABINET.

FILE NAME =	USER NAME = ejensen	DESIGNED - EAJ	REVISED -
N:\NCDOT\120226\6 - IL 120\Traffic\CAB\IL 83.dgn		DRAWN - FPB	REVISED -
		CHECKED - GMZ	REVISED -
		DATE -	REVISED -

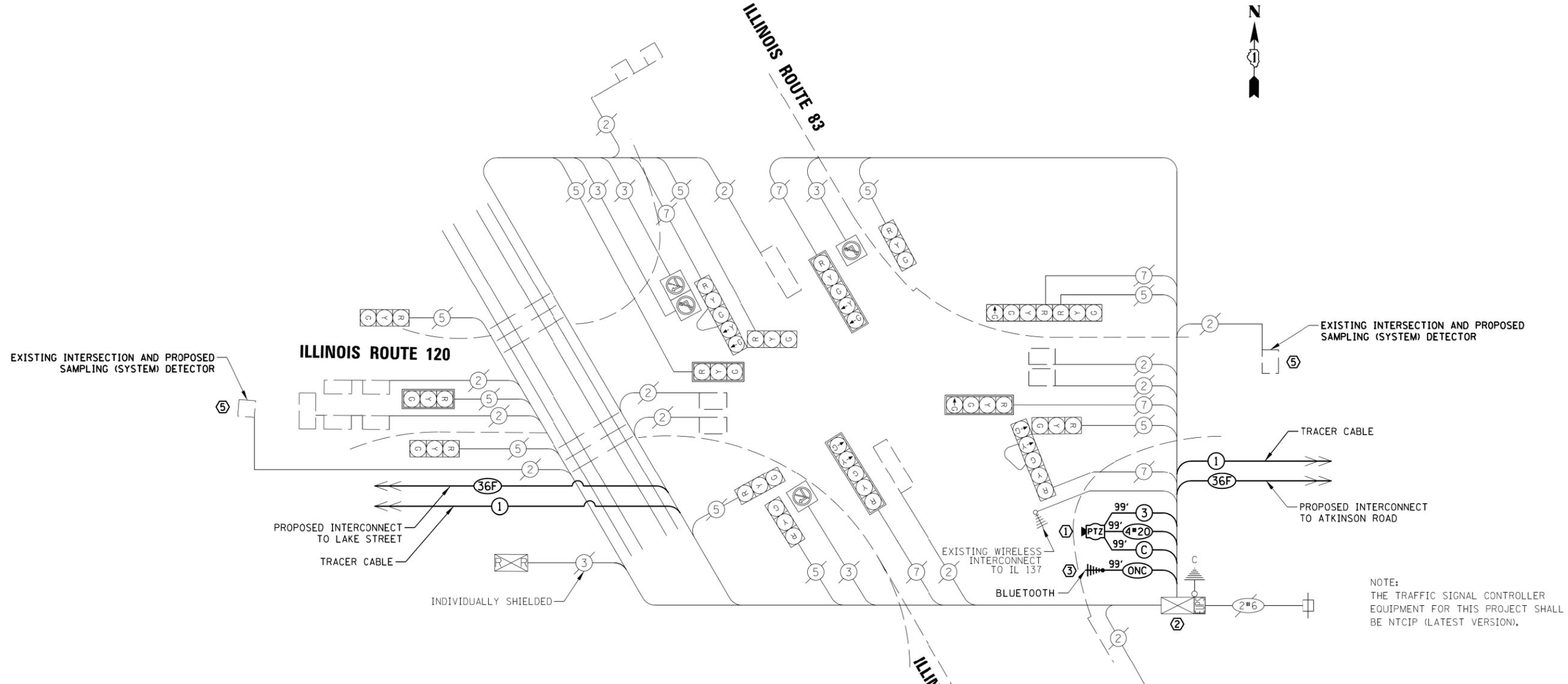
SCALE = 48"	DATE = 9/26/2016
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SCHEDULE OF QUANTITIES, CABLE PLAN, PHASE DESIGNATION DIAGRAM
AND EMERGENCY VEHICLE PREEMPTION SEQUENCE
IL ROUTE 120 AND IL ROUTE 83

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3338344	116TS&N-2	LAKE	102	59
CONTRACT NO. 60W92				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				



CABLE PLAN

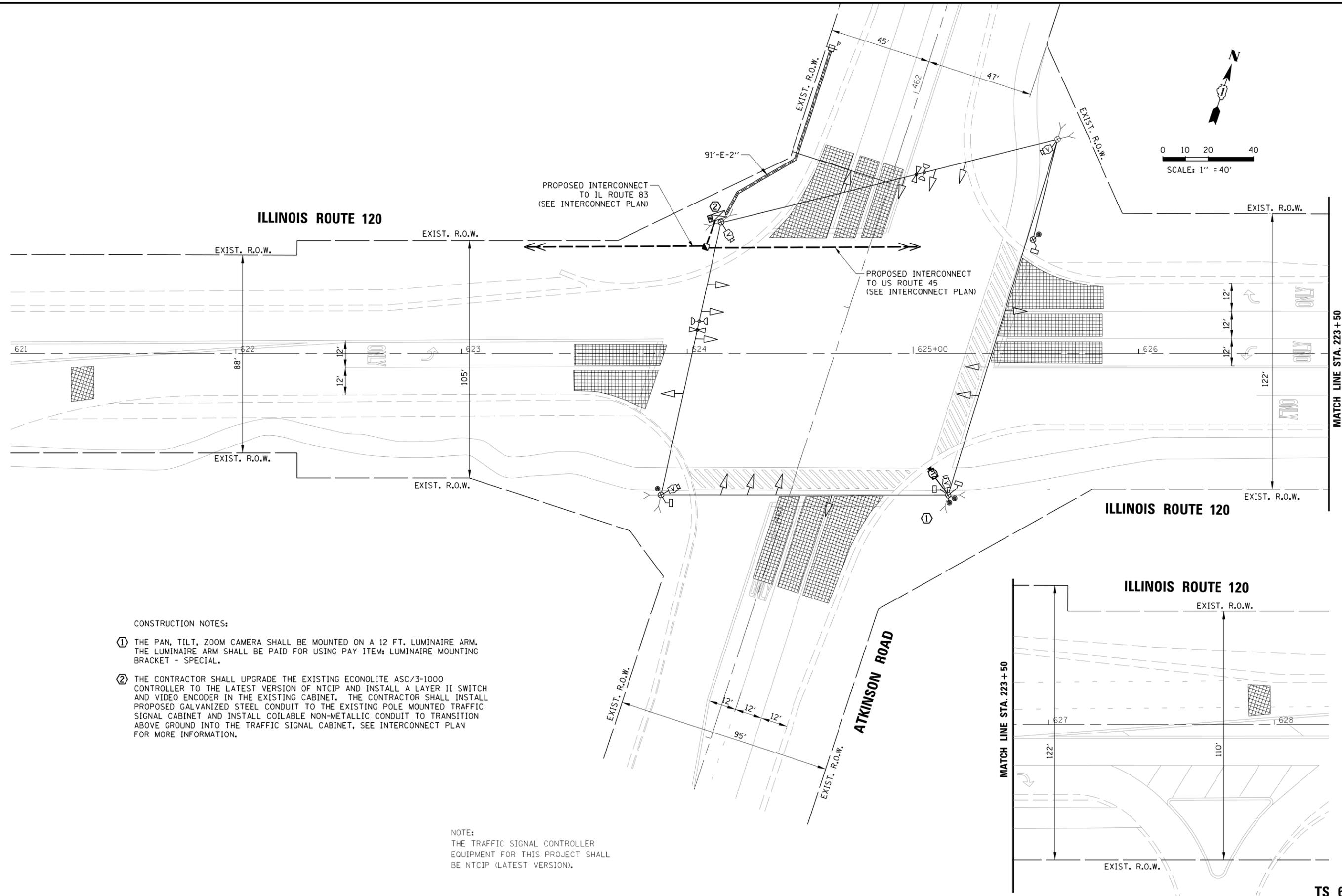
SCHEDULE OF QUANTITIES

ITEM	UNIT	QUANTITY
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	99
MODIFY EXISTING CONTROLLER CABINET	EACH	1
ELECTRIC CABLE IN CONDUIT, COAXIAL	FOOT	99
ELECTRIC CABLE IN CONDUIT, VIDEO, NO. 20 4 C	FOOT	99
REMOTE CONTROLLED VIDEO SYSTEM	EACH	1
LAYER II (DATALINK) SWITCH	EACH	1
VIDEO ENCODER	EACH	1
UPGRADE EXISTING CONTROLLER TO NTCIP SPECIAL	EACH	1
OUTDOOR RATED NETWORK CABLE	FOOT	99
BLUETOOTH DETECTOR	EACH	1

TS 6940
ECON 198

PROFILE: CHECKED [] PLOTTED [] GRADES CHECKED [] STRUCTURE NOTATIONS CHECKED []
 NOTE BOOK NO. _____
 PLAN: CHECKED [] PLOTTED [] ALIGNMENT CHECKED [] PLAN FILE NAME: N:\C00T\120226\6 - IL 120\Traffic\MOD_4\TKINSON.dgn
 NOTE BOOK NO. _____
 ENGINEERING LTD. ENGINEERING LTD.
CHRISTOPHER B. BURKE
 305 West Main Street, Suite 600
 Rockton, IL 60153
 (847) 823-0500

TS SHT NO. 26



- CONSTRUCTION NOTES:**
- ① THE PAN, TILT, ZOOM CAMERA SHALL BE MOUNTED ON A 12 FT. LUMINAIRE ARM. THE LUMINAIRE ARM SHALL BE PAID FOR USING PAY ITEM: LUMINAIRE MOUNTING BRACKET - SPECIAL.
 - ② THE CONTRACTOR SHALL UPGRADE THE EXISTING ECONOLITE ASC/3-1000 CONTROLLER TO THE LATEST VERSION OF NTCIP AND INSTALL A LAYER II SWITCH AND VIDEO ENCODER IN THE EXISTING CABINET. THE CONTRACTOR SHALL INSTALL PROPOSED GALVANIZED STEEL CONDUIT TO THE EXISTING POLE MOUNTED TRAFFIC SIGNAL CABINET AND INSTALL COILABLE NON-METALLIC CONDUIT TO TRANSITION ABOVE GROUND INTO THE TRAFFIC SIGNAL CABINET, SEE INTERCONNECT PLAN FOR MORE INFORMATION.

NOTE:
THE TRAFFIC SIGNAL CONTROLLER EQUIPMENT FOR THIS PROJECT SHALL BE NTCIP (LATEST VERSION).

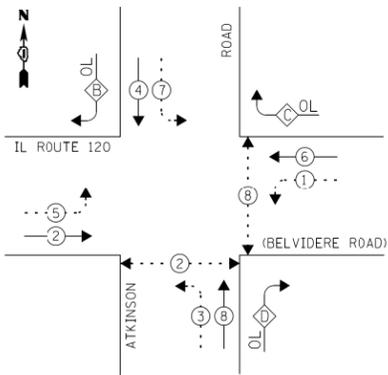
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	PLOT SCALE = 40'	CHECKED - GMZ	REVISED -		SCALE: 1" = 20'	SHEET NO.	OF	SHEETS	STA.	TO STA.	CONTRACT NO. 60W92		
	PLOT DATE = 9/26/2016	DATE -	REVISED -		FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT								

TS 6943

DATE: _____ BY: _____
 CHECKED: _____ PLOTTED: _____
 PROFILE: _____ SHADES CHECKED: _____
 NOTE BOOK: _____ STRUCTURE: _____ NOTATIONS: CHKD
 NO.: _____
 CHRISTOPHER B. BURKE ENGINEERING LTD.
 205 West Main Street, Suite 600
 Grayslake, IL 60030
 (847) 823-0500

TS SHT NO. 27

EXISTING CONTROLLER SEQUENCE



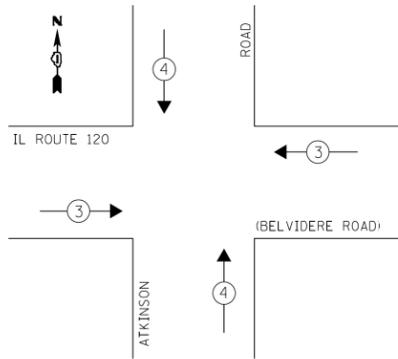
LEGEND:

- ⊙ — PROTECTED PHASE
- ⊙ · · — PROTECTED/PERMITTED PHASE
- ⊙ — PEDESTRIAN PHASE
- OL — OVERLAP

RIGHT TURN OVERLAP PHASE DESIGNATION

OVERLAP LETTER	PERMISSIVE PHASE	PROTECTED PHASE
B	4	5
C	6	7
D	8	1

EXISTING EMERGENCY VEHICLE PREEMPTION SEQUENCE



I.D.O.T. TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS					TOTAL WATTAGE
TYPE	NO. OF LAMPS	WATTAGE INCAND.	LED	% OPERATION	
SIGNAL (RED)	15		17	0.50	128.0
(YELLOW)	15		25	0.25	94.0
(GREEN)	15		15	0.25	56.0
ARROW	28		12	0.10	34.0
PED. SIGNAL	4		25	1.00	100.0
CONTROLLER	1		100	1.00	100.0
LUMINAIRE	-		250	0.50	-
ILLUMINATED SIGN	-		25	0.50	-
VIDEO SYSTEM	1		150	1.00	150.0
BATTERY BACKUP SYSTEM	1		25	1.00	25.0
FLASHER	-		25	0.50	-
ENERGY COSTS TO:					TOTAL = 687.0

VILLAGE OF GRAYSLAKE
10 SOUTH SEYMOUR AVENUE
GRAYSLAKE, IL 60030

ENERGY SUPPLY: PHONE: (866) 639-3532
COMPANY: COMED - NEW BUSINESS

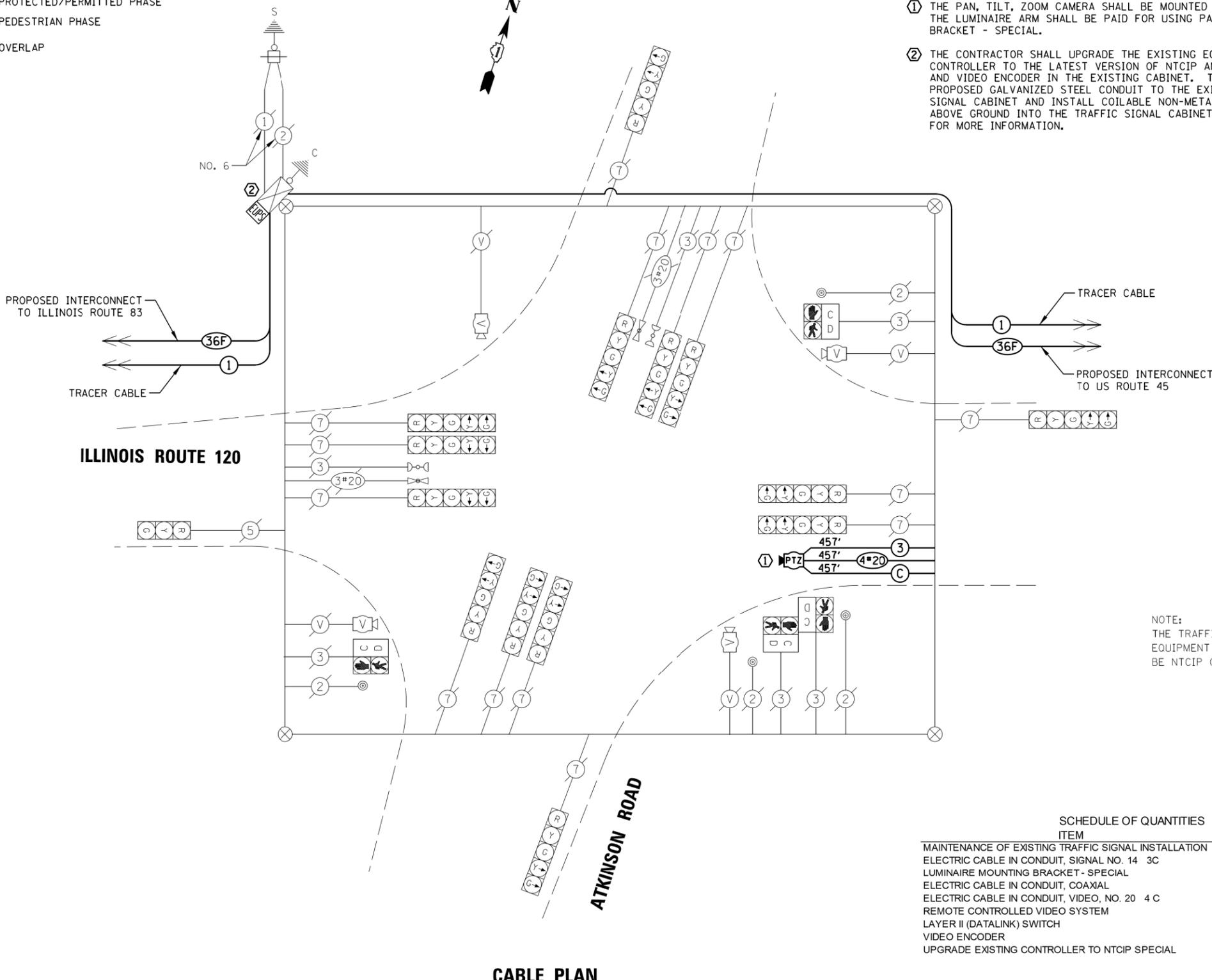
DESIGNED - EAJ	REVISOR -
DRAWN - FPB	REVISOR -
CHECKED - GMZ	REVISOR -
DATE -	REVISOR -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SCHEDULE OF QUANTITIES, CABLE PLAN, PHASE DESIGNATION DIAGRAM AND EMERGENCY VEHICLE PREEMPTION SEQUENCE
IL ROUTE 120 AND ATKINSON ROAD

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

F.A.P. RTE. 3338344	SECTION 116TS&N-2	COUNTY LAKE	TOTAL SHEETS 102	SHEET NO. 62
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT			CONTRACT NO. 60W92	



- CONSTRUCTION NOTES:
- THE PAN, TILT, ZOOM CAMERA SHALL BE MOUNTED ON A 12 FT. LUMINAIRE ARM. THE LUMINAIRE ARM SHALL BE PAID FOR USING PAY ITEM: LUMINAIRE MOUNTING BRACKET - SPECIAL.
 - THE CONTRACTOR SHALL UPGRADE THE EXISTING ECONOLITE ASC/3-1000 CONTROLLER TO THE LATEST VERSION OF NTCIP AND INSTALL A LAYER II SWITCH AND VIDEO ENCODER IN THE EXISTING CABINET. THE CONTRACTOR SHALL INSTALL PROPOSED GALVANIZED STEEL CONDUIT TO THE EXISTING POLE MOUNTED TRAFFIC SIGNAL CABINET AND INSTALL COILABLE NON-METALLIC CONDUIT TO TRANSITION ABOVE GROUND INTO THE TRAFFIC SIGNAL CABINET, SEE INTERCONNECT PLAN FOR MORE INFORMATION.

NOTE:
THE TRAFFIC SIGNAL CONTROLLER EQUIPMENT FOR THIS PROJECT SHALL BE NTCIP (LATEST VERSION).

ITEM	UNIT	QUANTITY
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	457
LUMINAIRE MOUNTING BRACKET - SPECIAL	EACH	1
ELECTRIC CABLE IN CONDUIT, COAXIAL	FOOT	457
ELECTRIC CABLE IN CONDUIT, VIDEO, NO. 20 4 C	FOOT	457
REMOTE CONTROLLED VIDEO SYSTEM	EACH	1
LAYER II (DATALINK) SWITCH	EACH	1
VIDEO ENCODER	EACH	1
UPGRADE EXISTING CONTROLLER TO NTCIP SPECIAL	EACH	1

CABLE PLAN

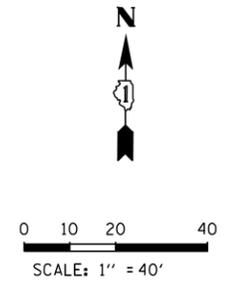
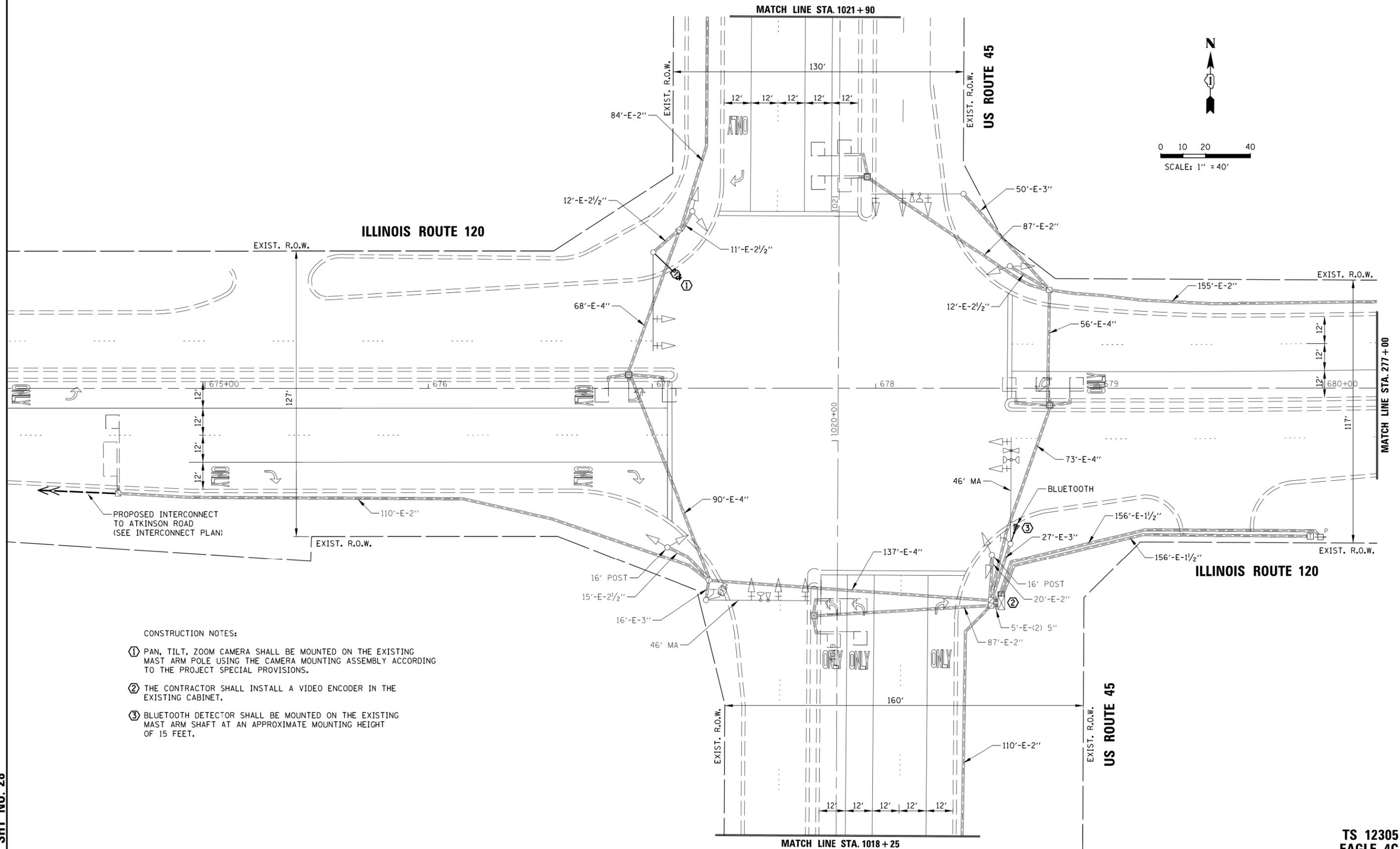
TS 6943

PROFILE
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 NOTE BOOK [] CHECKED []
 NO. []
 STRUCTURE NOTATIONS CHKD []

BY [] DATE []
 ENGINEERING LTD.
CHRISTOPHER B. BURKE
 35 West Higgins Road, Suite 600
 Rosemont, Illinois 60018
 (847) 823-0500

PLAN
 CHECKED [] PLOTTED []
 NOTE BOOK [] CHECKED []
 NO. []
 FILE NAME: N:\PROJECTS\2016\11\120\Traffic\120-11-14-16.dwg

TS SHT NO. 28



- CONSTRUCTION NOTES:
- ① PAN, TILT, ZOOM CAMERA SHALL BE MOUNTED ON THE EXISTING MAST ARM POLE USING THE CAMERA MOUNTING ASSEMBLY ACCORDING TO THE PROJECT SPECIAL PROVISIONS.
 - ② THE CONTRACTOR SHALL INSTALL A VIDEO ENCODER IN THE EXISTING CABINET.
 - ③ BLUETOOTH DETECTOR SHALL BE MOUNTED ON THE EXISTING MAST ARM SHAFT AT AN APPROXIMATE MOUNTING HEIGHT OF 15 FEET.

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	PLOT SCALE = 48'	CHECKED - GMZ	REVISED -		SCALE: 1" = 20'	SHEET NO.	OF SHEETS	STA.	TO STA.	CONTRACT NO. 60W92			
	PLOT DATE = 9/26/2016	DATE -	REVISED -		FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT								

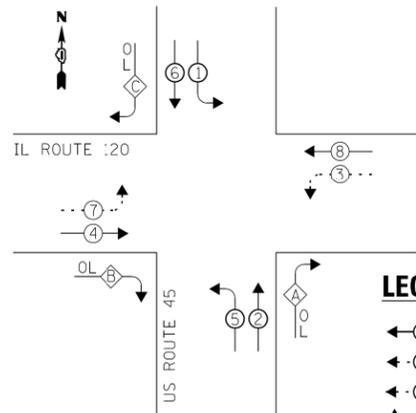
TS 12305
EAGLE 4C

PROFILE
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 PLOTTED: []
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 NO. []
 BY: []
 DATE: []
 TS SHT NO. 30

ENGINEERING LTD.
CHRISTOPHER B. BURKE
 105 West Higgins Road, Suite 600
 Rosemont, Illinois 60018
 (847) 823-0500

DATE: []
 BY: []
 CHECKED: []
 PLOTTED: []
 ALIGNED: []
 CHECKED: []
 FILE NAME: []
 NO. []

EXISTING CONTROLLER SEQUENCE



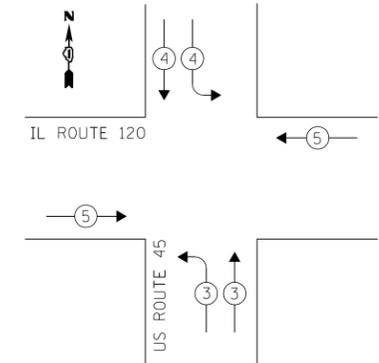
LEGEND:

- ← ⊕ → PROTECTED PHASE
- ← ⊕ ··· PROTECTED/PERMITTED PHASE
- ← ⊕ → PEDESTRIAN PHASE
- ← ⊕ → OVERLAP

RIGHT TURN OVERLAP PHASE DESIGNATION

OVERLAP LETTER	PERMISSIVE PHASE	PROTECTED PHASE
A	2	3
B	4	5
C	6	7

EXISTING EMERGENCY VEHICLE PREEMPTION SEQUENCE



I.D.O.T. TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS					TOTAL WATTAGE
TYPE	NO. OF LAMPS	WATTAGE x INCAND.	LED x % OPERATION		
SIGNAL (RED)	18	17	0.50	68.0	
(YELLOW)	18	25	0.25	50.0	
(GREEN)	18	15	0.25	30.0	
ARROW	20	12	0.10	9.6	
PED. SIGNAL	-	25	1.00	-	
CONTROLLER	1	100	1.00	100.0	
LUMINAIRE	-	250	0.50	-	
ILLUMINATED SIGN	-	25	0.50	-	
VIDEO SYSTEM	-	150	1.00	-	
BATTERY BACKUP SYSTEM	-	25	1.00	-	
FLASHER	-	25	0.50	-	
ENERGY COSTS TO:				TOTAL =	257.6

VILLAGE OF GRAYSLAKE
 10 SOUTH SEYMOUR AVENUE
 GRAYSLAKE, IL 60030

ENERGY SUPPLY: PHONE: (866) 639-3532
 COMPANY: COMED - NEW BUSINESS

ITEM	UNIT	QUANTITY
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	419
ELECTRIC CABLE IN CONDUIT, COAXIAL	FOOT	419
ELECTRIC CABLE IN CONDUIT, VIDEO, NO. 20 4C	FOOT	419
REMOTE CONTROLLED VIDEO SYSTEM	EACH	1
VIDEO ENCODER	EACH	1
OUTDOOR RATED NETWORK CABLE	FOOT	75
BLUETOOTH DETECTOR	EACH	1
CAMERA MOUNTING ASSEMBLY	EACH	1

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

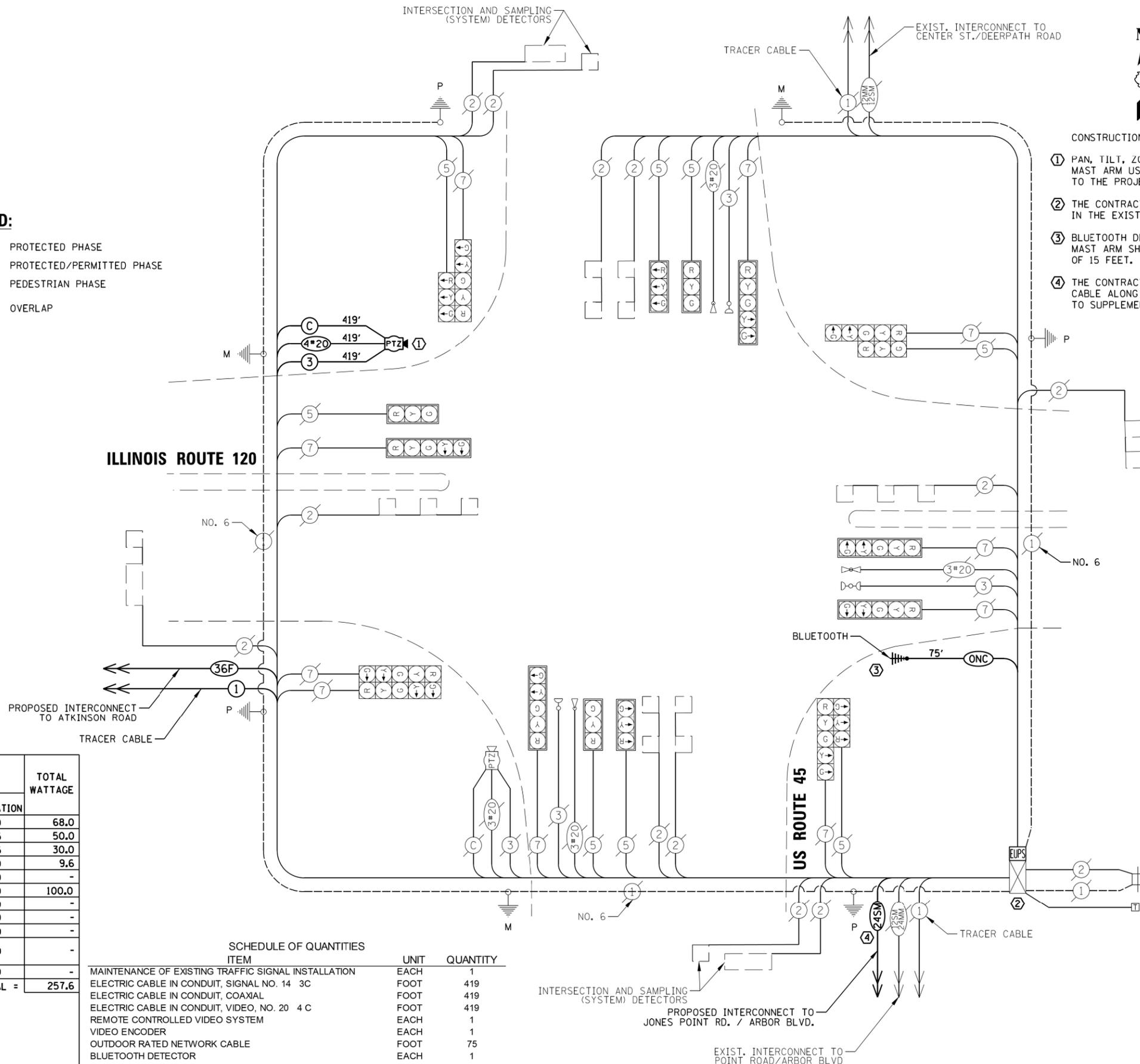
SCHEDULE OF QUANTITIES, CABLE PLAN, PHASE DESIGNATION DIAGRAM AND EMERGENCY VEHICLE PREEMPTION SEQUENCE
 IL ROUTE 120 AND US ROUTE 45

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



CONSTRUCTION NOTES:

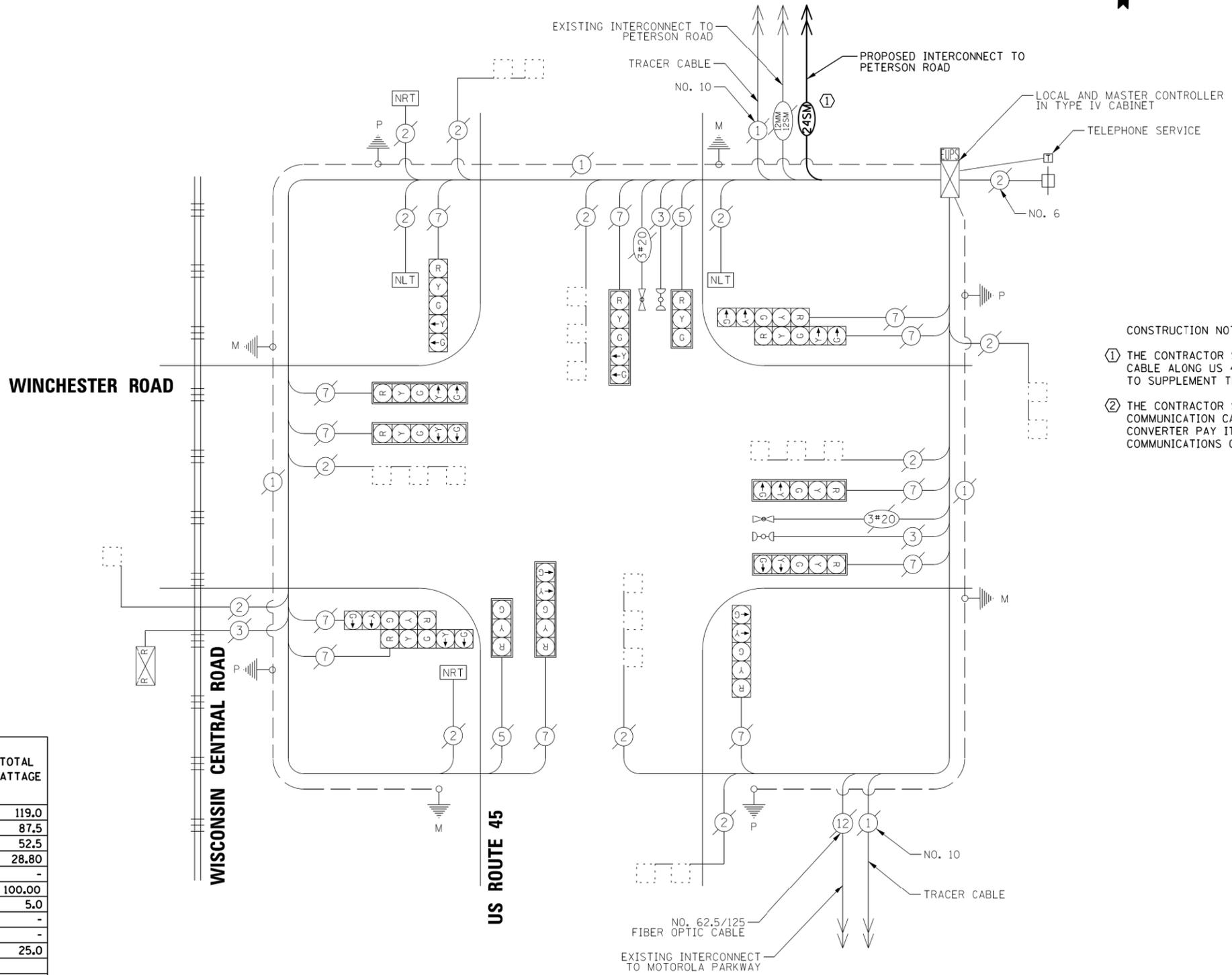
- 1 PAN, TILT, ZOOM CAMERA SHALL BE MOUNTED ON THE EXISTING MAST ARM USING THE CAMERA MOUNTING ASSEMBLY ACCORDING TO THE PROJECT SPECIAL PROVISIONS.
- 2 THE CONTRACTOR SHALL INSTALL A VIDEO ENCODER IN THE EXISTING CABINET.
- 3 BLUETOOTH DETECTOR SHALL BE MOUNTED ON THE EXISTING MAST ARM SHAFT AT AN APPROXIMATE MOUNTING HEIGHT OF 15 FEET.
- 4 THE CONTRACTOR SHALL INSTALL 24 SINGLE MODE FIBER OPTIC CABLE ALONG US 45, AS SHOWN ON THE INTERCONNECT SCHEMATIC, TO SUPPLEMENT THE EXISTING TRAFFIC SIGNAL INTERCONNECT.



TS 12305
EAGLE 4C

FILE NAME = N:\C00T\120226\6 - IL 120\Traffic\CABL	USER NAME = ejensen	DESIGNED - EAJ	REVISED -	SCHEDULE OF QUANTITIES, CABLE PLAN, PHASE DESIGNATION DIAGRAM AND EMERGENCY VEHICLE PREEMPTION SEQUENCE IL ROUTE 120 AND US ROUTE 45	F.A.P. RTE. 3338344	SECTION 116TS&N-2	COUNTY LAKE	TOTAL SHEETS 102	SHEET NO. 65	
PLLOT SCALE = 40'	PLLOT DATE = 9/26/2016	DRAWN - FPB	REVISED -		SCALE: 1" = 20'	FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT	CONTRACT NO. 60W92	
		CHECKED - GMZ	REVISED -		SHEET NO. OF SHEETS					
		DATE -	REVISED -		STA. TO STA.					

PROFILE
 CHECKED _____
 PLOTTED _____
 NOTE BOOK NO. _____
 STRUCTURE NOTATIONS CHECKED _____
 BY _____
 DATE _____
 ENGINEERING LTD.
CHRISTOPHER B. BURKE
 15 West Higgins Road, Suite 600
 Rosemont, Illinois 60018
 (847) 823-0500
 SUBMITTED _____
 PLOTTED _____
 NOTE BOOK NO. _____
 CHECKED _____
 FILE NAME: N:\LC001\2022\6 - IL 120\Traffic\CABL\116TS&N-2\116TS&N-2.dgn



- CONSTRUCTION NOTE:**
- ① THE CONTRACTOR SHALL INSTALL 24 SINGLE MODE FIBER OPTIC CABLE ALONG US 45, AS SHOWN ON THE INTERCONNECT SCHEMATIC, TO SUPPLEMENT THE EXISTING TRAFFIC SIGNAL INTERCONNECT.
 - ② THE CONTRACTOR SHALL INSTALL A MEDIA CONVERTER IN THE COMMUNICATION CABINET AT US 45 AND WINCHESTER ROAD. THE MEDIA CONVERTER PAY ITEM SHALL INCLUDE THE MAINTENANCE OF THE COMMUNICATIONS CABINET. SEE INTERCONNECT PLANS FOR LOCATION.

I.D.O.T. TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS					TOTAL WATTAGE
TYPE	NO. OF LAMPS	WATTAGE X INCAND.	LED	% OPERATION	
SIGNAL (RED)	14		17	0.50	119.0
(YELLOW)	14		25	0.25	87.5
(GREEN)	14		15	0.25	52.5
ARROW	24		12	0.10	28.80
PED. SIGNAL	-		25	1.00	-
CONTROLLER	1		100	1.00	100.00
ILLUMINATED SIGN	4	25		0.05	5.0
VIDEO SYSTEM	-	150		1.00	-
LUMINAIRE	-	250		0.50	-
BATTERY BACKUP	1	25		1.00	25.0
FLASHER				0.50	
ENERGY COSTS TO:					TOTAL = 417.8

VILLAGE OF LIBERTYVILLE
 118 W. COOK AVENUE
 LIBERTYVILLE, ILLINOIS 60048
 ENERGY SUPPLY: CONTACT: NEW BUSINESS
 PHONE: (866) 639-3532
 COMPANY: COMED - NEW BUSINESS

TS SHT NO. 34

FILE NAME = N:\LC001\2022\6 - IL 120\Traffic\CABL\116TS&N-2\116TS&N-2.dgn	USER NAME = ejensen	DESIGNED - EAJ	REVISED -
PLOT SCALE = 48"		DRAWN - FPB	REVISED -
PLOT DATE = 9/26/2016		CHECKED - GMZ	REVISED -
		DATE -	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

SCHEDULE OF QUANTITIES, CABLE PLAN, PHASE DESIGNATION DIAGRAM AND EMERGENCY VEHICLE PREEMPTION SEQUENCE US ROUTE 45 AND WINCHESTER ROAD			
SCALE: 1" = 20'	SHEET NO. OF SHEETS	STA. TO STA.	

F.A.P. RTE. 3338344	SECTION 116TS&N-2	COUNTY LAKE	TOTAL SHEETS 102	SHEET NO. 69
CONTRACT NO. 60W92				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

**TS 12330
 EAGLE 1J**

EXISTING SEQUENCE OF OPERATION

MOVEMENT	1	2	3	4	5	6	7	8	9	10A	10B	11	12	13	14	15	16A	16B	17A	17B	18	19	20A	20B	21A	21B	22	23	24A	24B	25A	25B
PHASE	1 + 5	1 + 6	2 + 5	2 + 6	3 + 7	3 + 8	4 + 7	4 + 8																								
INTERVAL	1	2	3	4	5	6	7	8	9	10A	10B	11	12	13	14	15	16A	16B	17A	17B	18	19	20A	20B	21A	21B	22	23	24A	24B	25A	25B
CHANGE TO	1+6	2+5	2+6	2+6	2+6	2+6	2+6	2+6	3+7	3+7	3+7	3+7	3+7	3+7	3+7	3+7	3+7	3+7	3+7	3+7	3+7	3+7	3+7	3+7	3+7	3+7	3+7	3+7	3+7	3+7	3+7	
U.S. ROUTE 45 FAR RIGHT MAST ARM SIGNAL	N/B	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R
U.S. ROUTE 45 FAR LEFT AND END MAST ARM SIGNALS	N/B	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R
U.S. ROUTE 45 FAR RIGHT MAST ARM SIGNALS	S/B	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R
U.S. ROUTE 45 FAR LEFT AND END MAST ARM SIGNALS	S/B	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R
WINCHESTER ROAD NEAR RIGHT AND FAR RIGHT MAST ARM SIGNALS	E/B	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R
WINCHESTER ROAD FAR LEFT AND END MAST ARM SIGNALS	E/B	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R
WINCHESTER ROAD NEAR RIGHT AND FAR RIGHT MAST ARM SIGNALS	W/B	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R
WINCHESTER ROAD FAR LEFT AND END MAST ARM SIGNALS	W/B	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R

PHASES 2 AND 6 SHALL BE ON RECALL.

RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
344	46-R	LAKE	257	175
STA.	TO STA.			
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT		

EXISTING RAILROAD PREEMPTION SEQUENCE OF OPERATION

CHANGE FROM NORMAL SEQUENCE OF OPERATION INTERVAL NUMBER	1	5	7	9	11	15	19	23	PREEMPTOR NUMBER 3	PREEMPTOR NUMBER 4	PREEMPTOR NUMBER 2													
CHANGE FROM EMERGENCY VEHICLE PREEMPTION SEQUENCE OF OPERATION INTERVAL NUMBER									2	3														
RAILROAD PREEMPTION SEQUENCE OF OPERATION INTERVAL NUMBER	1A	1B	1C	1D	1E	1F	1G	1H	1I	1J	1K	1L	1M	1N	1P	1Q	1R	1S	2	3	4	5	CLEAR TO NORMAL SEQUENCE	
CHANGE TO RAILROAD PREEMPTION SEQUENCE OF OPERATION INTERVAL NUMBER	2	1C	2	1E	2	1G	2	2	1K	2	2	1M	2	1Q	2	1S	2	3	4	5				
U.S. ROUTE 45 FAR RIGHT MAST ARM SIGNAL	N/B	R	R	R	Y	R	Y	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R
U.S. ROUTE 45 FAR LEFT AND END MAST ARM SIGNALS	N/B	R	R	R	Y	R	Y	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R
U.S. ROUTE 45 FAR RIGHT MAST ARM SIGNALS	S/B	R	Y	R	R	R	Y	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R
U.S. ROUTE 45 FAR LEFT AND END MAST ARM SIGNALS	S/B	R	Y	R	R	R	Y	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R
WINCHESTER ROAD NEAR RIGHT AND FAR RIGHT MAST ARM SIGNALS	E/B	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R
WINCHESTER ROAD FAR LEFT AND END MAST ARM SIGNALS	E/B	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R
WINCHESTER ROAD NEAR RIGHT AND FAR RIGHT MAST ARM SIGNALS	W/B	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R
WINCHESTER ROAD FAR LEFT AND END MAST ARM SIGNALS	W/B	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R
U.S. ROUTE 45 ILLUMINATED NLT SIGNS	N/B	NLT	NLT	NLT	NLT	NLT	NLT	NLT	NLT	NLT	NLT	NLT	NLT	NLT	NLT	NLT	NLT							
U.S. ROUTE 45 ILLUMINATED NRT SIGNS	S/B	NRT	NRT	NRT	NRT	NRT	NRT	NRT	NRT	NRT	NRT	NRT	NRT	NRT	NRT	NRT	NRT							

RAILROAD PREEMPTION SEQUENCE SHALL PROVIDE THE PROPER CLEARANCE INTERVAL TO RESUME THE NORMAL SEQUENCE OF OPERATION OR PROPER CLEARANCE INTERVAL TO DISPLAY AN EMERGENCY VEHICLE INTERVAL (IF APPLICABLE) AFTER RAILROAD PREEMPTION INTERVAL 5 IS TERMINATED.

NRT = "NO RIGHT TURN" OR



NLT = "NO LEFT TURN" OR



EXISTING EMERGENCY VEHICLE PREEMPTION SEQUENCE OF OPERATION

CHANGE FROM NORMAL SEQUENCE OF OPERATION INTERVAL NUMBER	1	1	5	5	7	7	9	9	11	15	15	19	19	23	23	PREEMPTOR NUMBER 3	PREEMPTOR NUMBER 4	CLEAR TO NORMAL SEQUENCE							
EMERGENCY VEHICLE PREEMPTION SEQUENCE OF OPERATION INTERVAL NUMBER	1A	1B	1C	1D	1E	1F	1G	1H	1I	1J	1K	1L	1M	1N	1P	1Q	1R	1S	1T	1U	1V	1W	2	3	CLEAR TO NORMAL SEQUENCE
CHANGE TO EMERGENCY VEHICLE PREEMPTION SEQUENCE OF OPERATION INTERVAL NUMBER	2	3	2	1E	3	2	1M	3	2	1L	3	2	1P	2	3	1S	2	3	1V	2	3				
U.S. ROUTE 45 FAR RIGHT MAST ARM SIGNAL	N/B	R	R	R	R	R	G	Y	R	G	Y	R	R	R	R	R	R	R	R	R	R	R	R	R	R
U.S. ROUTE 45 FAR LEFT AND END MAST ARM SIGNALS	N/B	R	R	R	R	R	G	Y	R	G	Y	R	R	R	R	R	R	R	R	R	R	R	R	R	R
U.S. ROUTE 45 FAR RIGHT MAST ARM SIGNALS	S/B	R	R	G	Y	R	R	R	R	G	Y	R	R	R	R	R	R	R	R	R	R	R	R	R	R
U.S. ROUTE 45 FAR LEFT AND END MAST ARM SIGNALS	S/B	R	R	G	Y	R	R	R	R	G	Y	R	R	R	R	R	R	R	R	R	R	R	R	R	R
WINCHESTER ROAD NEAR RIGHT AND FAR RIGHT MAST ARM SIGNALS	E/B	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R
WINCHESTER ROAD FAR LEFT AND END MAST ARM SIGNALS	E/B	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R
WINCHESTER ROAD NEAR RIGHT AND FAR RIGHT MAST ARM SIGNALS	W/B	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R
WINCHESTER ROAD FAR LEFT AND END MAST ARM SIGNALS	W/B	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R

EMERGENCY VEHICLE SEQUENCE SHALL PROVIDE THE PROPER CLEARANCE INTERVAL TO RESUME THE NORMAL SEQUENCE OF OPERATION AND PROPER CLEARANCE INTERVAL TO DISPLAY A DIFFERENT EMERGENCY VEHICLE INTERVAL AFTER EMERGENCY VEHICLE INTERVAL 2 OR 3 IS TERMINATED.

REVISIONS	NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
SEQUENCE OF OPERATION, EMERGENCY AND RAILROAD PREEMPTION SEQUENCE OF OPERATIONS
 U.S. ROUTE 45 & WINCHESTER ROAD
 DATE: 5/21/99
 DRAWN BY: MLB
 CHECKED BY: CJS
 SCALE: NONE

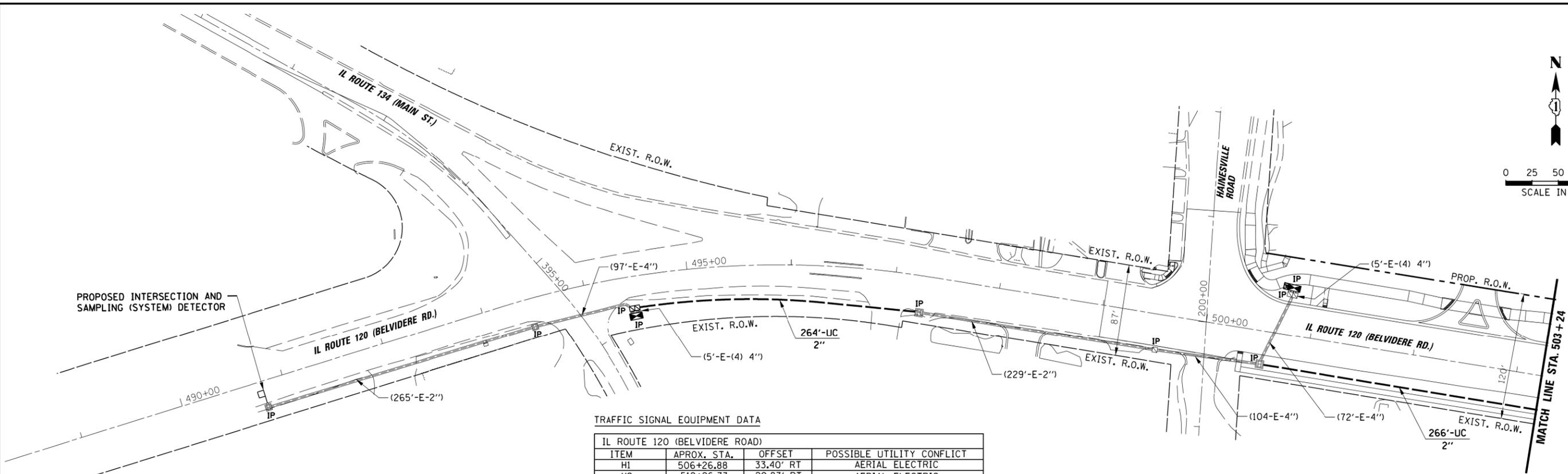
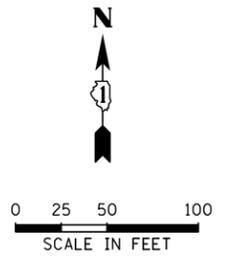
TS 12305
EAGLE 1J

DATE: _____ BY: _____
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 STRUCTURE NOTATIONS CHECKED: _____
 TS SHT NO. 35

DATE: _____ BY: _____
 CHECKED: _____
 PLOTTED: _____
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 CHECKED: _____
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 CHECKED: _____
 PLOTTED: _____
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 NO.: _____

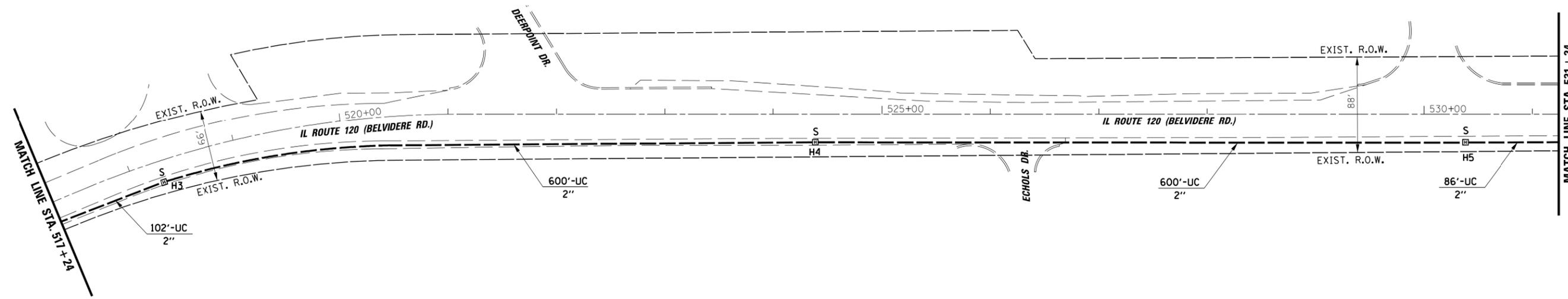
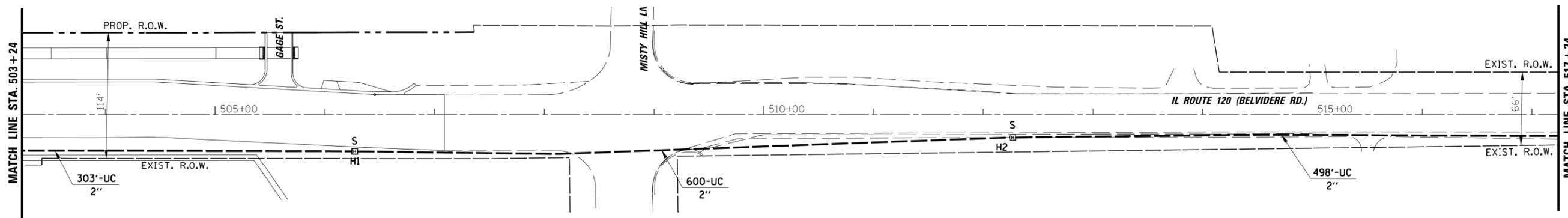
CHRISTOPHER B. BURKE
 ENGINEERING LTD.
 1575 West Higgins Road, Suite 600
 Naperville, Illinois 60563
 (847) 823-0500

TS SHT NO. 38



TRAFFIC SIGNAL EQUIPMENT DATA

ITEM	APROX. STA.	OFFSET	POSSIBLE UTILITY CONFLICT
H1	506+26.88	33.40' RT	AERIAL ELECTRIC
H2	512+26.73	20.83' RT	AERIAL ELECTRIC
H3	518+27.42	19.81' RT	AERIAL ELECTRIC
H4	524+38.61	26.20' RT	AERIAL ELECTRIC
H5	530+37.97	26.31' RT	AERIAL ELECTRIC

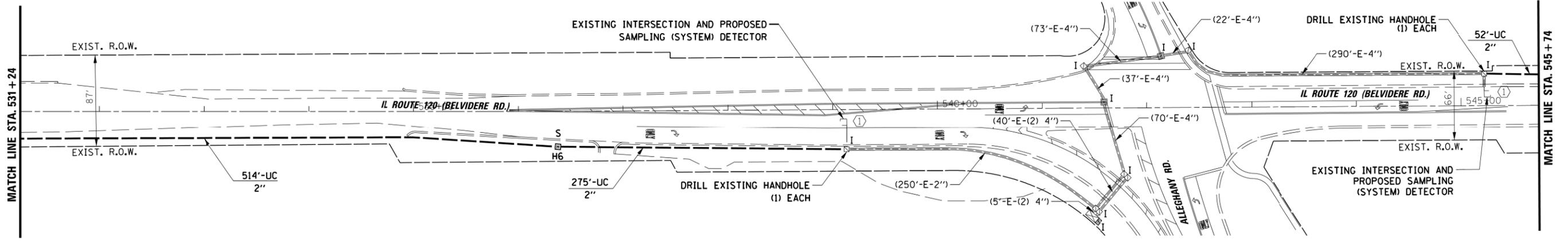


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CHRISTOPHER B. BURKE
ENGINEERING LTD.
1575 West Higgins Road, Suite 600
Bloomington, IL 61810
(847) 823-0500

DATE	BY	REVISIONS
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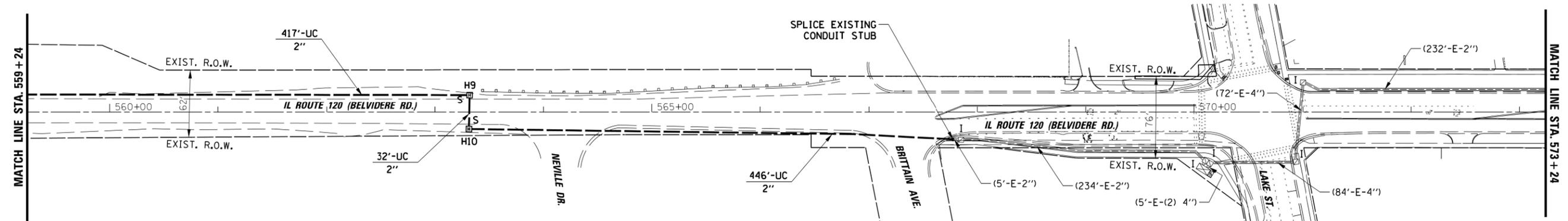
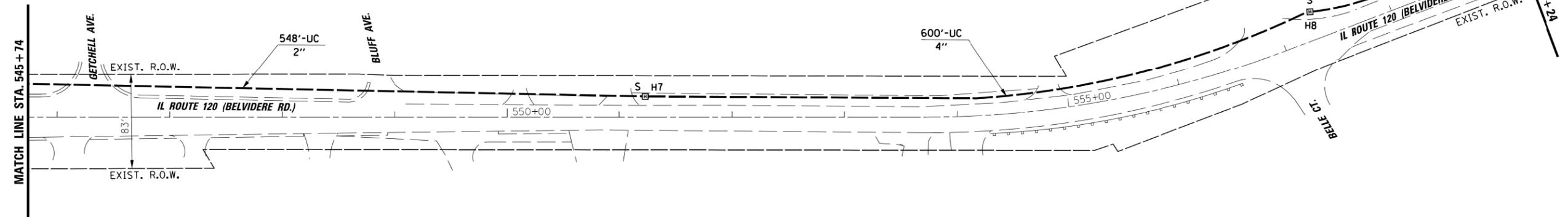
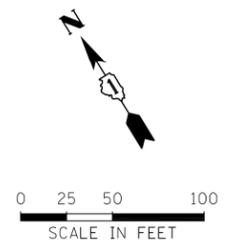
TS SHT NO. 39



TRAFFIC SIGNAL EQUIPMENT DATA

ITEM	APROX. STA.	OFFSET	POSSIBLE UTILITY CONFLICT
H6	536+37.54	34.22' RT	AERIAL ELECTRIC
H7	551+23.01	18.33' LT	UNDGRD & AERIAL COMMUN.
H8	557+31.79	24.78' LT	SANITARY SEWER
H9	563+31.92	16.12' LT	UNDGRD COMMUN. CABLE
H10	563+31.30	15.54' RT	AERIAL ELECTRIC

CONSTRUCTION NOTES:
 ① THE CONTRACTOR SHALL WIRE THE EXISTING FAR BACK DETECTOR LOOPS TO OPERATE AS INTERSECTION AND SYSTEM DETECTORS IN THE EXISTING CONTROLLER CABINET. (SEE INTERSECTION PLANS FOR MORE DETAIL)



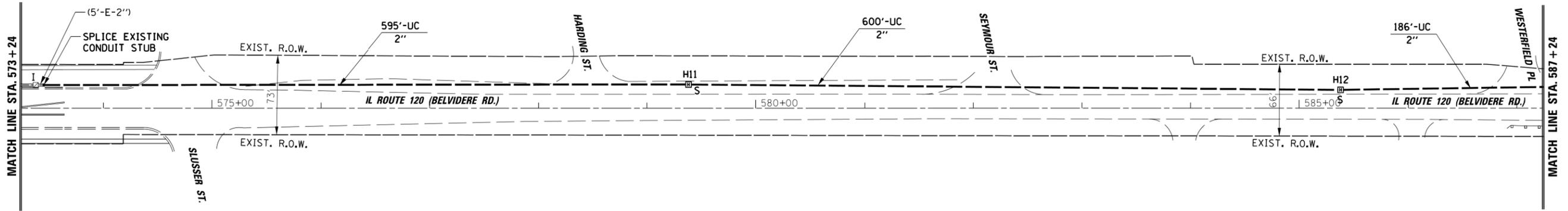
PROFILE
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 PLOTTED: []
 NOTE BOOK NO. []
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PLAN
 CHECKED: []
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 FILE NAME: []

BY: []
 DATE: []

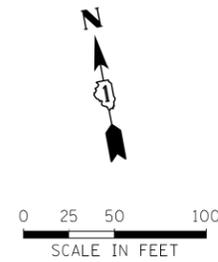
ENGINEERING LTD.
 1575 West Higgins Road, Suite 600
 (847) 823-0500

TS SHT NO. 40



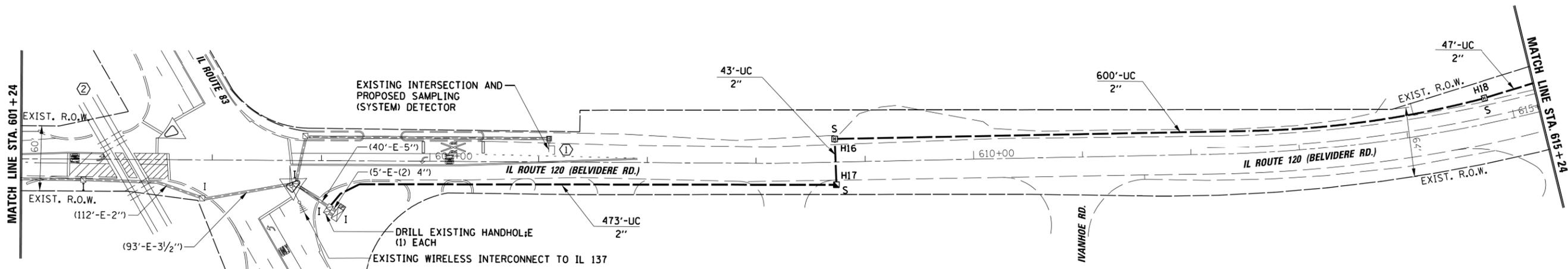
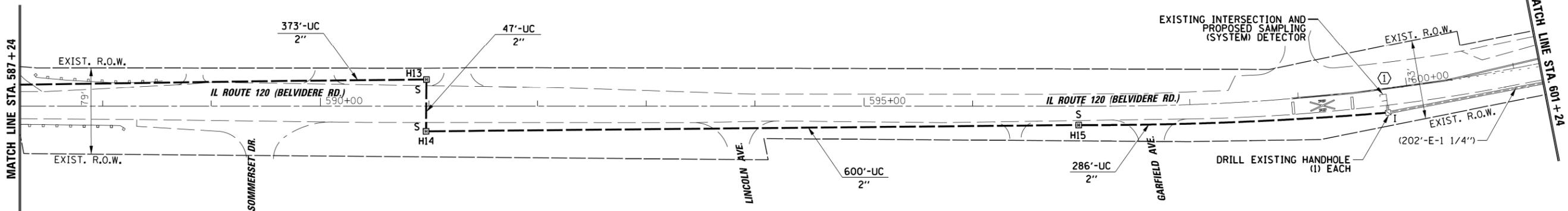
TRAFFIC SIGNAL EQUIPMENT DATA

IL ROUTE 120 (BELVIDERE ROAD)			
ITEM	APROX. STA.	OFFSET	POSSIBLE UTILITY CONFLICT
H11	579+38.02	21.77' LT	-
H12	585+37.94	16.83' LT	-
H13	590+97.89	24.25' LT	AERIAL ELECTRIC
H14	590+97.50	23.15' RT	AERIAL ELECTRIC
H15	596+97.47	17.39' RT	AERIAL ELECTRIC
H16	608+72.51	21.72' LT	-
H17	608+73.20	20.74' RT	AERIAL ELECTRIC
H18	614+76.39	23.34' LT	STORM SEWER



CONSTRUCTION NOTE:

- THE CONTRACTOR SHALL WIRE THE EXISTING FAR BACK DETECTOR LOOPS TO OPERATE AS INTERSECTION AND SYSTEM DETECTORS IN THE EXISTING CONTROLLER CABINET. (SEE INTERSECTION PLANS FOR MORE DETAIL)
- CONSTRUCTION VEHICLES ARE PROHIBITED WITHIN 25 FT. OF THE TRACKS. THE CONTRACTOR SHALL INSTALL THE FIBER OPTIC CABLE AS DISCREETLY AS POSSIBLE WITH MINIMAL IMPACT TO THE AREA SURROUNDING THE RAILROAD TRACKS.



FILE NAME = N:\LC007\120225\6 - IL 120\Traffic\INT-03_IL120.dgn	USER NAME = ejensen	DESIGNED - EAJ	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	INTERCONNECT PLAN (SHEET 3 OF 8) IL ROUTE 120 (BELVIDERE ROAD) FROM IL ROUTE 134 (MAIN ST.) TO US ROUTE 45			F.A.P. RTE. 3338344	SECTION 116TS&N-2	COUNTY LAKE	TOTAL SHEETS 102	SHEET NO. 75
PLOT SCALE = 100'		CHECKED - GMZ	REVISED -		SCALE: 1" = 50'	SHEET NO. OF SHEETS	STA. TO STA.	FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT	CONTRACT NO. 60W92	
PLOT DATE = 9/26/2016		DATE -	REVISED -									

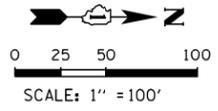
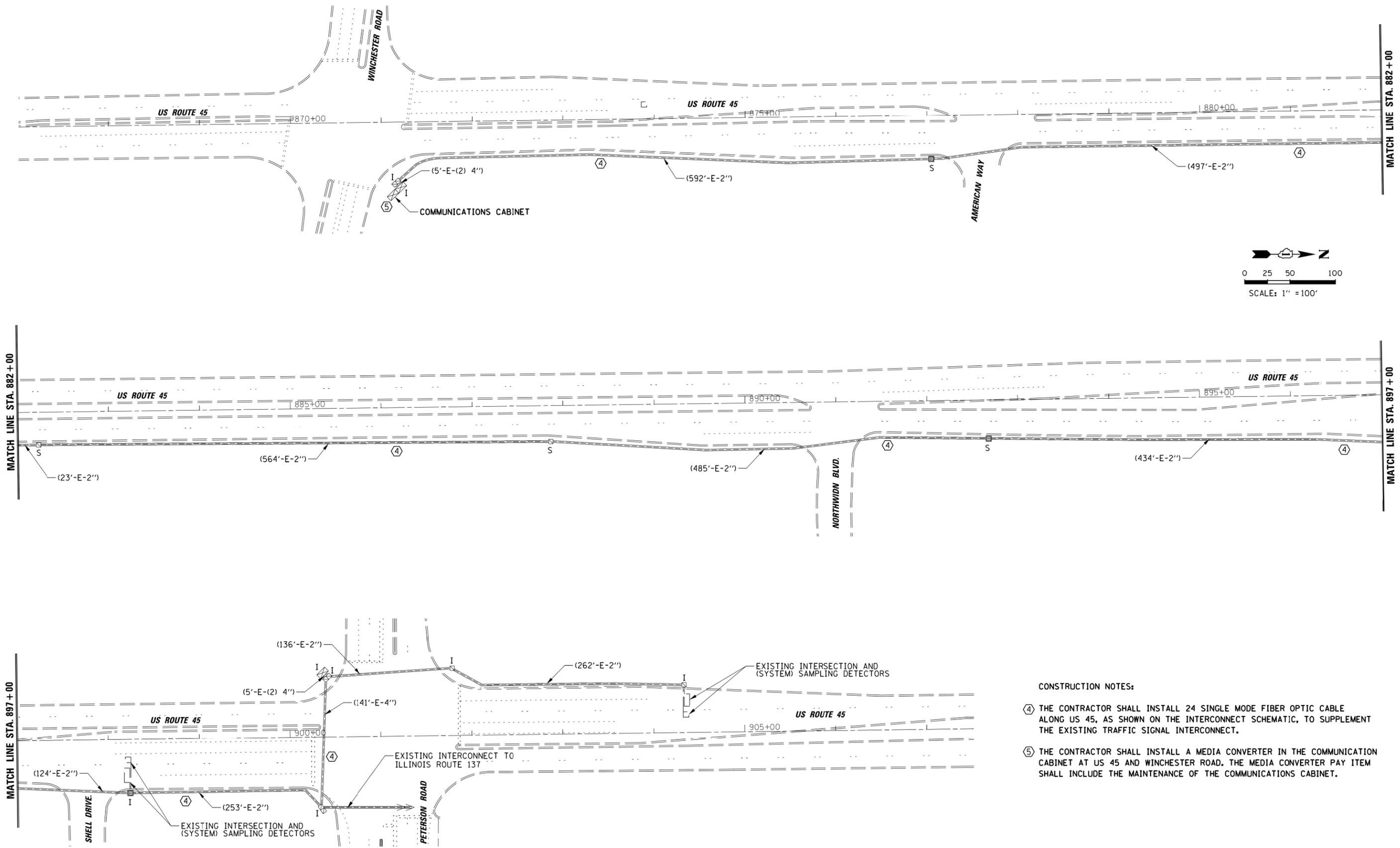
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DATE	BY	DATE	BY
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CHRISTOPHER B. BURKE ENGINEERING LTD.
 1575 West Higgins Road, Suite 600
 Naperville, IL 60563
 (847) 823-0500

DATE	BY

TS SHT NO. 43



- CONSTRUCTION NOTES:**
- ④ THE CONTRACTOR SHALL INSTALL 24 SINGLE MODE FIBER OPTIC CABLE ALONG US 45, AS SHOWN ON THE INTERCONNECT SCHEMATIC, TO SUPPLEMENT THE EXISTING TRAFFIC SIGNAL INTERCONNECT.
 - ⑤ THE CONTRACTOR SHALL INSTALL A MEDIA CONVERTER IN THE COMMUNICATIONS CABINET AT US 45 AND WINCHESTER ROAD. THE MEDIA CONVERTER PAY ITEM SHALL INCLUDE THE MAINTENANCE OF THE COMMUNICATIONS CABINET.

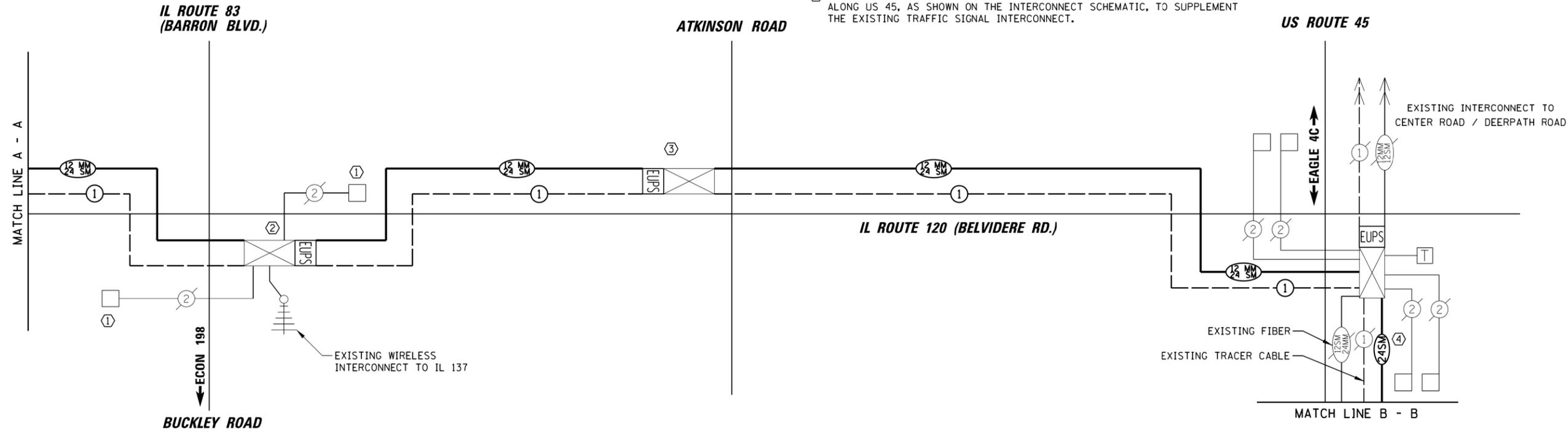
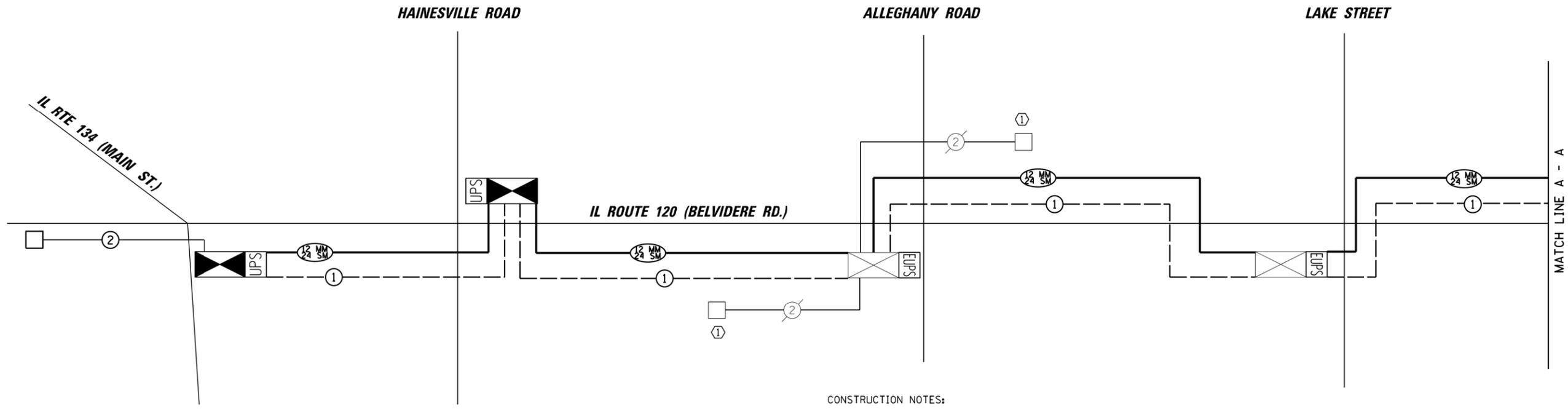
FILE NAME = N:\LC00T\120226\6 - IL 120\Traffic\INT-06_US45.dgn	USER NAME = ejensen	DESIGNED - EAJ	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	INTERCONNECT PLAN (SHEET 6 OF 8) US ROUTE 45 FROM WINCHESTER ROAD TO PETERSON ROAD			F.A.P. RTE. 3338344	SECTION 116TS&N-2	COUNTY LAKE	TOTAL SHEETS 102	SHEET NO. 78
PLOT SCALE = 100'		CHECKED - GMZ	REVISED -		SCALE: 1" = 50'	SHEET NO.	OF SHEETS	STA.	TO STA.	CONTRACT NO. 60W92		
PLOT DATE = 9/26/2016		DATE -	REVISED -		FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT							

EAGLE 4C

PROFILE
 CHECKED
 GRADES CHECKED
 STRUCTURE NOTATIONS CHECKED
 NO. _____
 DATE _____
 BY _____
 TS SHT NO. 46

PLAN
 NOTE BOOK NO. _____
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 DATE _____

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 205 West Higgins Road, Suite 600
 Naperville, IL 60563
 (847) 823-0500



- CONSTRUCTION NOTES:
- ① THE CONTRACTOR SHALL WIRE THE EXISTING FAR BACK DETECTOR LOOPS TO OPERATE AS INTERSECTION AND SYSTEM DETECTORS IN THE EXISTING CONTROLLER CABINET. (SEE INTERSECTION PLANS FOR MORE DETAIL)
 - ② CONSTRUCTION VEHICLES ARE PROHIBITED WITHIN 25 FT. OF THE TRACKS. THE CONTRACTOR SHALL INSTALL THE FIBER OPTIC CABLE AS DISCREETLY AS POSSIBLE WITH MINIMAL IMPACT TO THE AREA SURROUNDING THE RAILROAD TRACKS.
 - ③ THE CONTRACTOR SHALL INSTALL PROPOSED COILABLE NON-METALLIC CONDUIT FROM THE HANDHOLE TO THE POLE MOUNTED CONTROLLER CABINET. THE COST FOR THE COILABLE NON-METALLIC CONDUIT SHALL BE INCLUDED IN THE UNIT COST OF THE PAY ITEM: UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA.
 - ④ THE CONTRACTOR SHALL INSTALL 24 SINGLE MODE FIBER OPTIC CABLE ALONG US 45, AS SHOWN ON THE INTERCONNECT SCHEMATIC, TO SUPPLEMENT THE EXISTING TRAFFIC SIGNAL INTERCONNECT.



TS SHT NO. 46

ECON 198
EAGLE 4C

FILE NAME = N:\LC00T\120226\6 - IL 120\Traffic\SCH_1120_01.dgn	USER NAME = ejensen	DESIGNED - EAJ	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	INTERCONNECT SCHEMATIC (SHEET 1 OF 2) IL ROUTE 120 (BELVIDERE ROAD) FROM IL ROUTE 134 (MAIN ST.) TO U.S. ROUTE 45			F.A.P. RTE. 3338344	SECTION 116TS&N-2	COUNTY LAKE	TOTAL SHEETS 102	SHEET NO. 81
PLOT SCALE = 48'		CHECKED - GMZ	REVISED -		SCALE: 1" = 20'	SHEET NO.	OF SHEETS	STA.	TO STA.	CONTRACT NO. 60W92		
PLOT DATE = 9/26/2016		DATE -	REVISED -		FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT							



THE FOLLOWING INTERSECTIONS ARE TO BE INCLUDED IN THE ITEM:
OPTIMIZE TRAFFIC SIGNAL SYSTEM

IL 120 AT IL 134
IL 120 AT HAINESVILLE ROAD
IL 120 AT ALLEGHANY ROAD
IL 120 AT LAKE STREET
IL 120 AT IL 83
IL 120 AT ATKINSON ROAD
IL 120 AT US 45

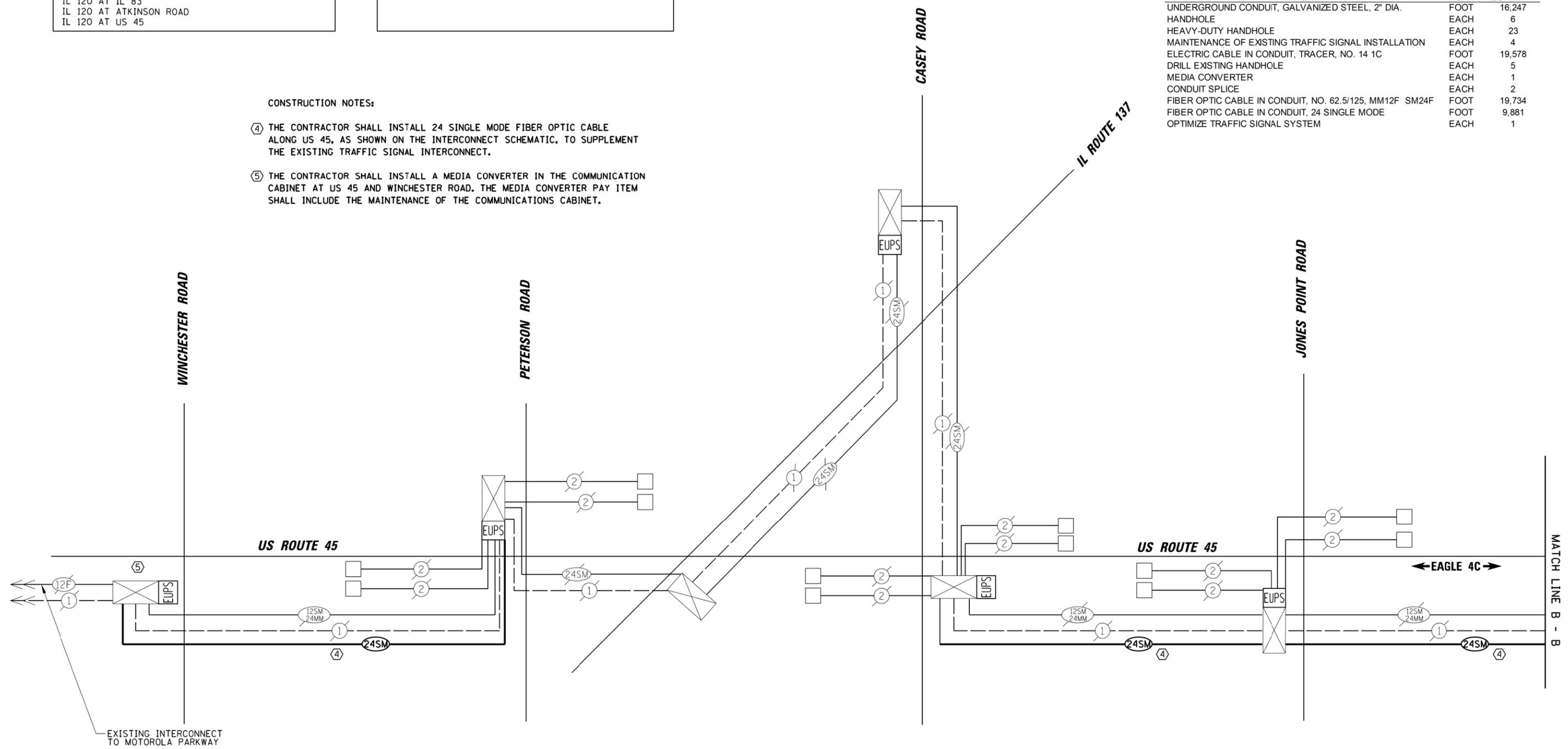
THE FOLLOWING INTERSECTIONS ARE TO BE INCLUDED IN THE ITEM:
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION

US 45 AT JONES POINT ROAD
US 45 AT CASEY ROAD
US 45 AT PETERSON ROAD
US 45 AT WINCHESTER ROAD

SCHEDULE OF QUANTITIES		
ITEM	UNIT	QUANTITY
UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA.	FOOT	16,247
HANDHOLE	EACH	6
HEAVY-DUTY HANDHOLE	EACH	23
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	4
ELECTRIC CABLE IN CONDUIT, TRACER, NO. 14 1C	FOOT	19,578
DRILL EXISTING HANDHOLE	EACH	5
MEDIA CONVERTER	EACH	1
CONDUIT SPLICE	EACH	2
FIBER OPTIC CABLE IN CONDUIT, NO. 62.5/125, MM12F SM24F	FOOT	19,734
FIBER OPTIC CABLE IN CONDUIT, 24 SINGLE MODE	FOOT	9,881
OPTIMIZE TRAFFIC SIGNAL SYSTEM	EACH	1

CONSTRUCTION NOTES:

- ④ THE CONTRACTOR SHALL INSTALL 24 SINGLE MODE FIBER OPTIC CABLE ALONG US 45, AS SHOWN ON THE INTERCONNECT SCHEMATIC, TO SUPPLEMENT THE EXISTING TRAFFIC SIGNAL INTERCONNECT.
- ⑤ THE CONTRACTOR SHALL INSTALL A MEDIA CONVERTER IN THE COMMUNICATION CABINET AT US 45 AND WINCHESTER ROAD. THE MEDIA CONVERTER PAY ITEM SHALL INCLUDE THE MAINTENANCE OF THE COMMUNICATIONS CABINET.



PROFILE
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 NOTE BOOK NO. _____
 STRUCTURE NOTATION: _____

PLAN
 DATE: _____
 BY: _____
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 PLOTTED: _____
 NOTE BOOK NO. _____
 STRUCTURE NOTATION: _____

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 Rosemont, Illinois 60018
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TS SHT NO. 47

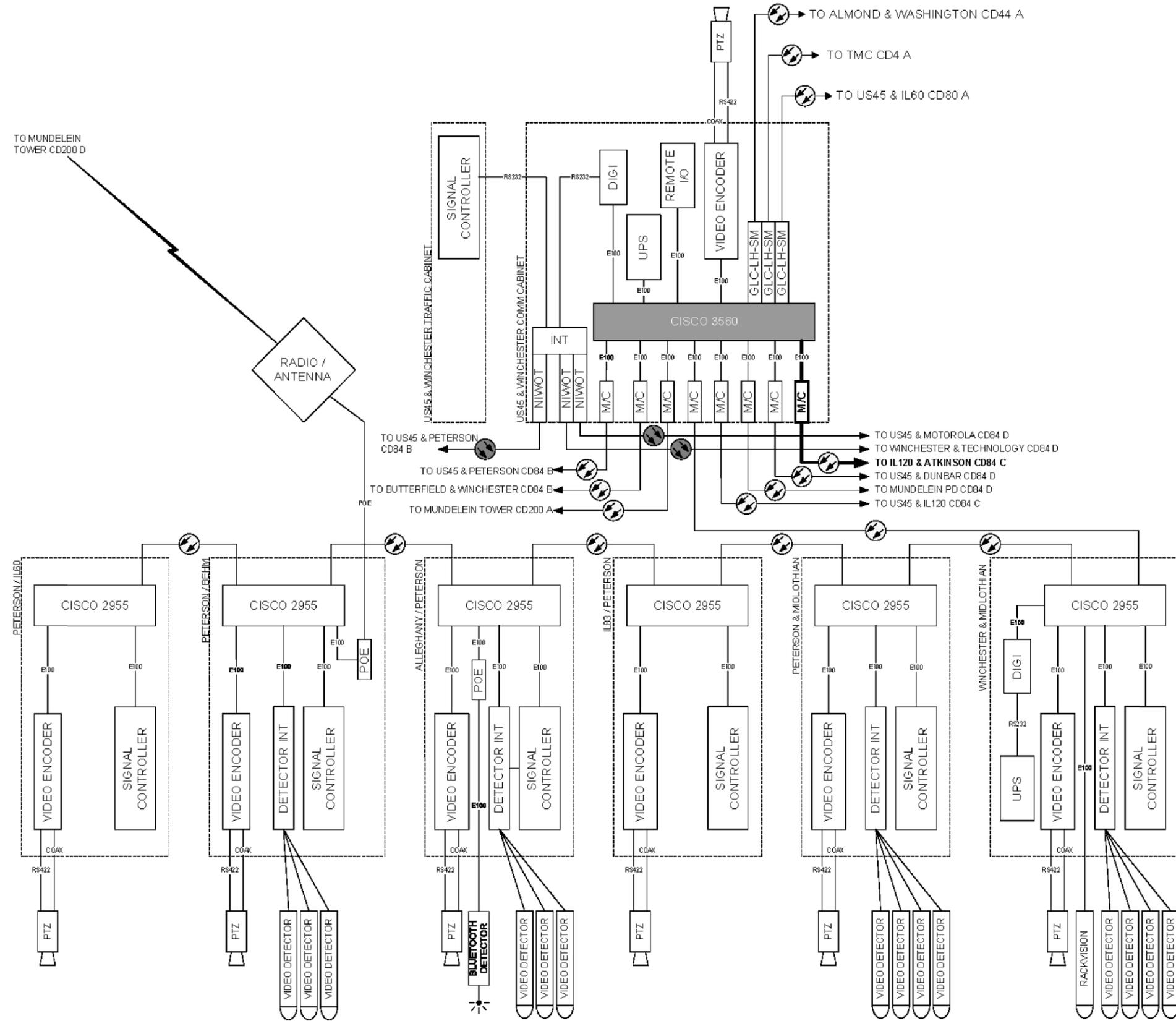
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PLOT DATE = 9/26/2016		CHECKED - GMZ	REVISED -
		DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

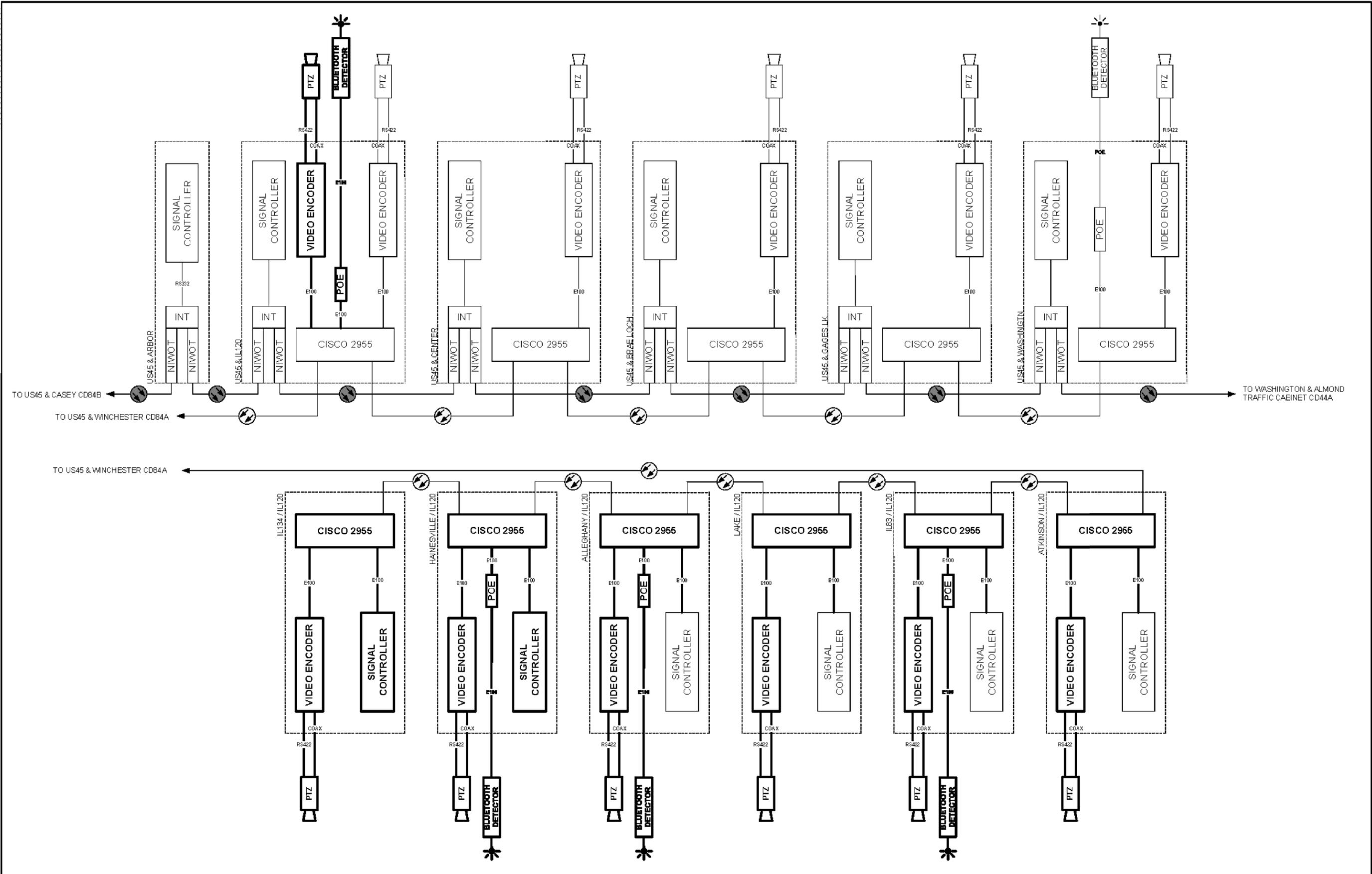
INTERCONNECT SCHEMATIC (SHEET 2 OF 2) FROM WINCHESTER ROAD TO PETERSON ROAD AND FROM CASEY ROAD TO U.S. ROUTE 45			
SCALE: 1" = 20'	SHEET NO.	OF SHEETS	STA. TO STA.

F.A.P. RTE. 3338344	SECTION 116TS&N-2	COUNTY LAKE	TOTAL SHEETS 102	SHEET NO. 82
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT CONTRACT NO. 60W92		

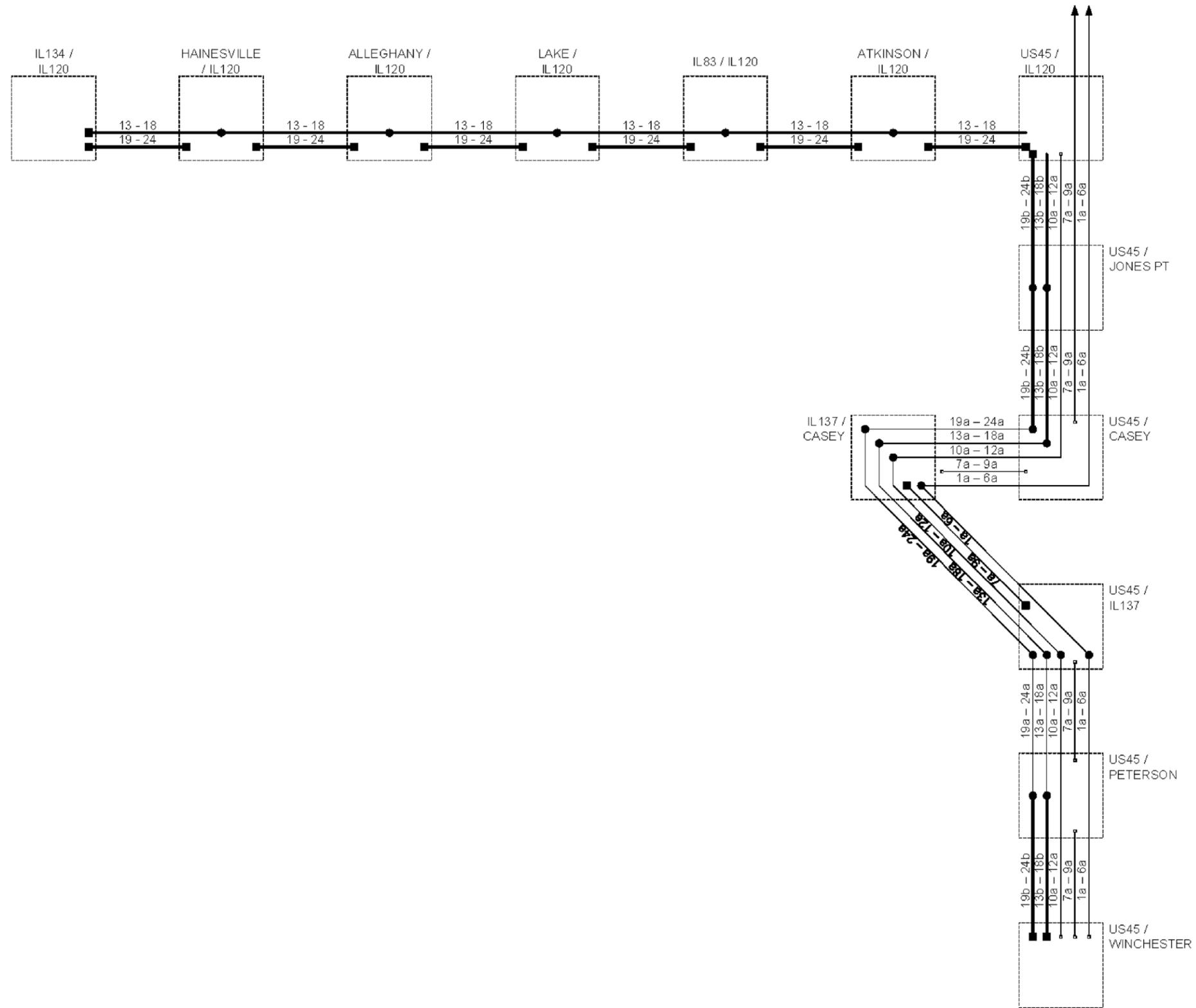
EAGLE 4C



DESIGNED - DG	REVISED - 2014.08.06	LAKE COUNTY DIVISION OF TRANSPORTATION	84A		ROUTE	SECTION	ROUTE	SECTION	SHEET	SHEETS
DRAWN - YM	REVISED - 2014.10.10		US45 / WINCHESTER							
CHECKED - DG	REVISED -		SCALE N/A							
DATE 2015.12.01	REVISED -									

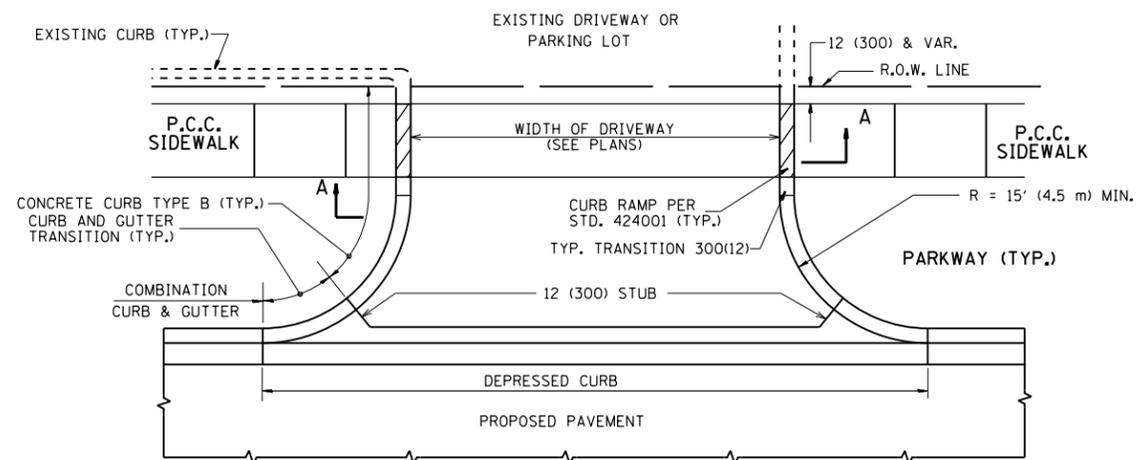


DESIGNED - DG	REVISED -	LAKE COUNTY DIVISION OF TRANSPORTATION	84C		ROUTE	SECTION	ROUTE SECTION	SHEET	SHEETS
DRAWN - YM	REVISED -		US45 / WINCHESTER						
CHECKED - DG	REVISED -		SCALE N/A						
DATE 2015.12.01	REVISED -								

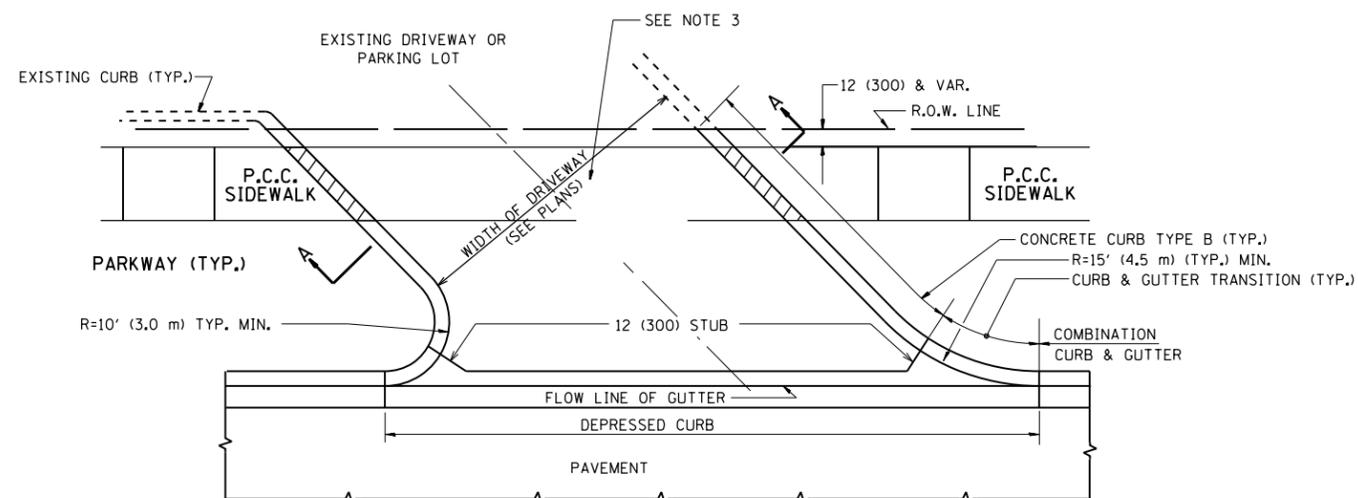


- EXISTING CONNECTOR / EXISTING FIBER
- NEW CONNECTOR / EXISTING FIBER
- |— EXISTING FUSION SPLICE / EXISTING FIBER
- NEW FUSION SPLICE / EXISTING FIBER
- NEW CONNECTOR / NEW FIBER
- NEW FUSION SPLICE / NEW FIBER

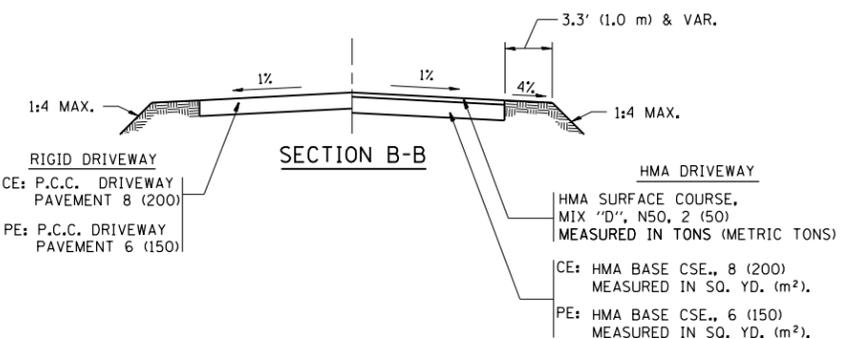
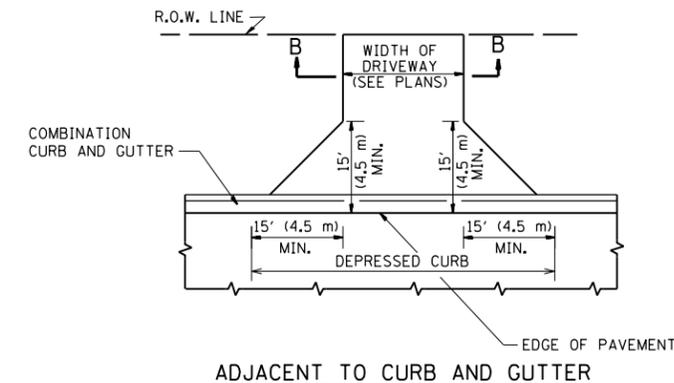
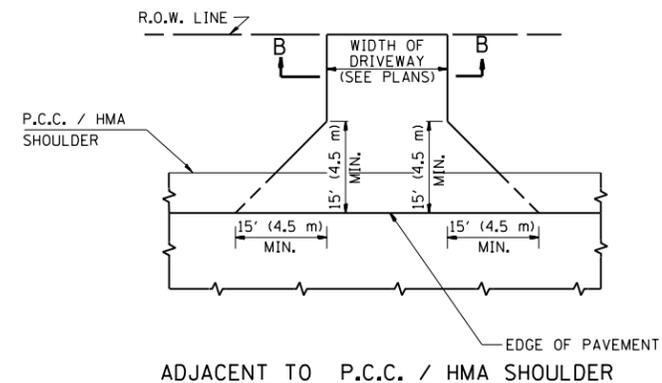
	DESIGNED - DG	REVISED -	LAKE COUNTY DIVISION OF TRANSPORTATION	FIBER SPLICING DIAGRAM 1		ROUTE	SECTION	ROUTE	SECTION	SHEET	SHEETS
	DRAWN - YM	REVISED -									
	CHECKED - DG	REVISED -		SCALE N/A							
	DATE 2015.12.01	REVISED -									



WITH CONCRETE CURB, TYPE B



WITH CONCRETE CURB, TYPE B



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. (m²).

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.

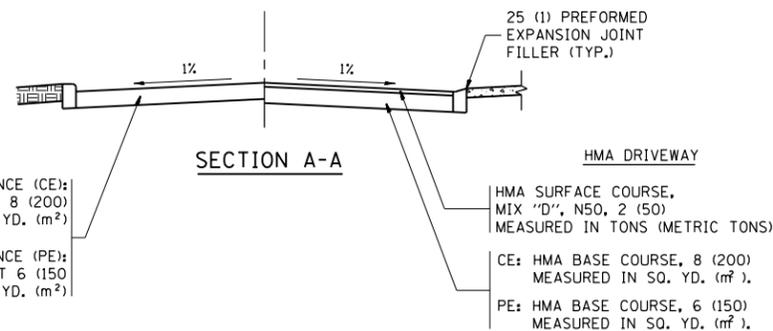
COMMERCIAL DRIVEWAYS SHALL BE CONSTRUCTED WITH CONCRETE CURB, TYPE B RETURNS EXCEPT WHEN THE SIDEWALK EDGE IS 4 FEET (1.2 METERS) OR LESS FROM THE BACK OF CURB, CONSTRUCT A FLARE DRIVEWAY WITHOUT CURB.

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.

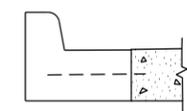
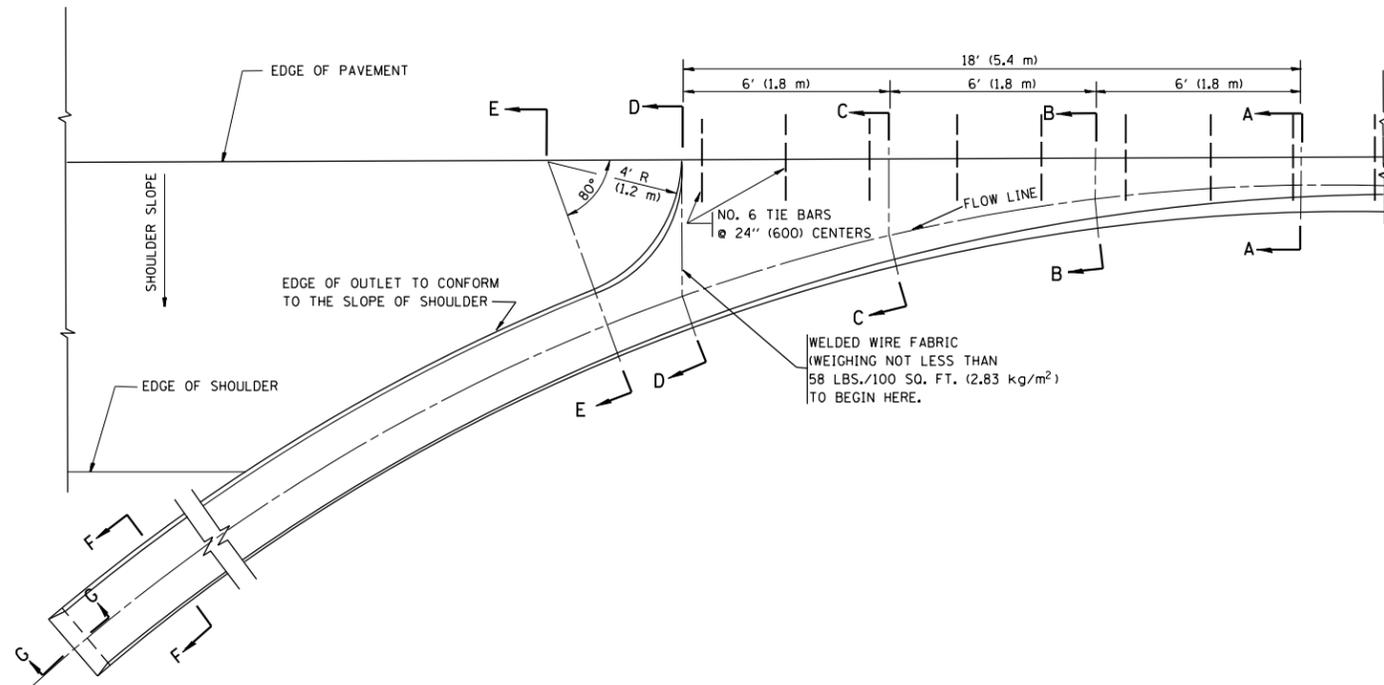
COMBINATION CONCRETE CURB & GUTTER SHALL BE MEASURED STRAIGHT ACROSS THE DRIVEWAY. NO ADDITIONAL COMPENSATION WILL BE ALLOWED FOR THE CURB & GUTTER TRANSITION.

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.

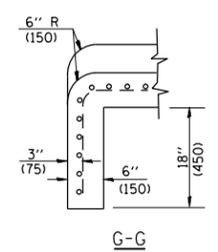
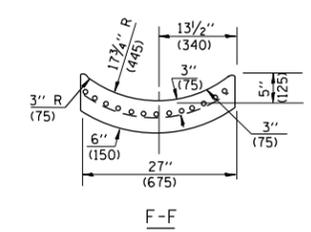
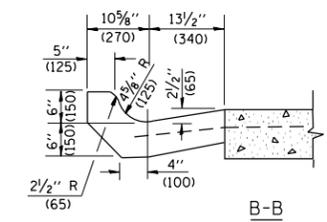
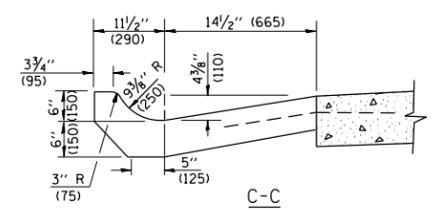
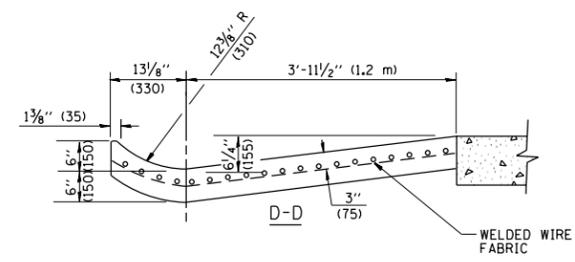
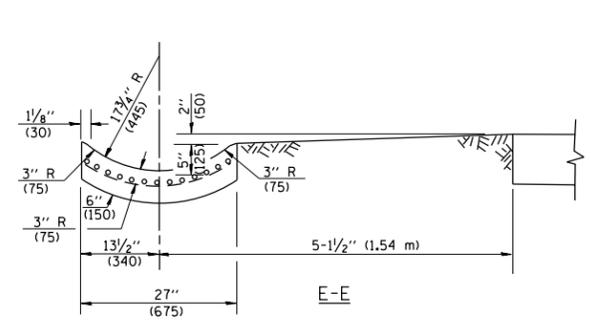


FILE NAME =	USER NAME = PencePL	DESIGNED - R. SHAH	REVISED - P. LaFLUER 04-15-03	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	DRIVEWAY DETAILS - DISTANCE BETWEEN R.O.W. AND FACE OF CURB & EDGE OF SHOULDER >= 15' (4.5 m)	F.A.P. RTE. 3338344	SECTION 116TS&N-2	COUNTY LAKE	TOTAL SHEETS 102	SHEET NO. 87	
pw:\IL084EBIDINTEG\Illinois.gov\PIDOT\Documents\DOT Offices\District 1\Projects\P17040\DrawData\Design\DistStd.dgn	PLOT SCALE = 100.0000' / in.	CHECKED -	REVISED - R. BORO 01-01-07			SCALE: NONE	SHEET NO. 1 OF 1 SHEETS	STA. TO STA.	BD0156-07 (BD-01)		CONTRACT NO. 60W92
PLOT DATE = 10/27/2016	DATE - 11-04-95	REVISED - R. BORO 06-11-08	REVISED - R. BORO 09-06-11					FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT			



A-A *

* DIMENSIONS OF THE CURB & GUTTER AT SECTION A-A ARE SHOWN ON STATE STANDARD 606001. FOR DETAILS OF OUTLET FOR CONCRETE CURB & GUTTER, TYPE B-6.24 (B-15.60) SEE STATE STANDARD 606006.



GENERAL NOTES

GUTTER OUTLET SHALL BE TIED TO THE PAVEMENT IN ACCORDANCE WITH DETAILS FOR LONGITUDINAL CONSTRUCTION JOINT SHOWN ON STANDARD 420001.

TIE BARS SHALL BE NO. 20 (NO.6) AT 24\"/>

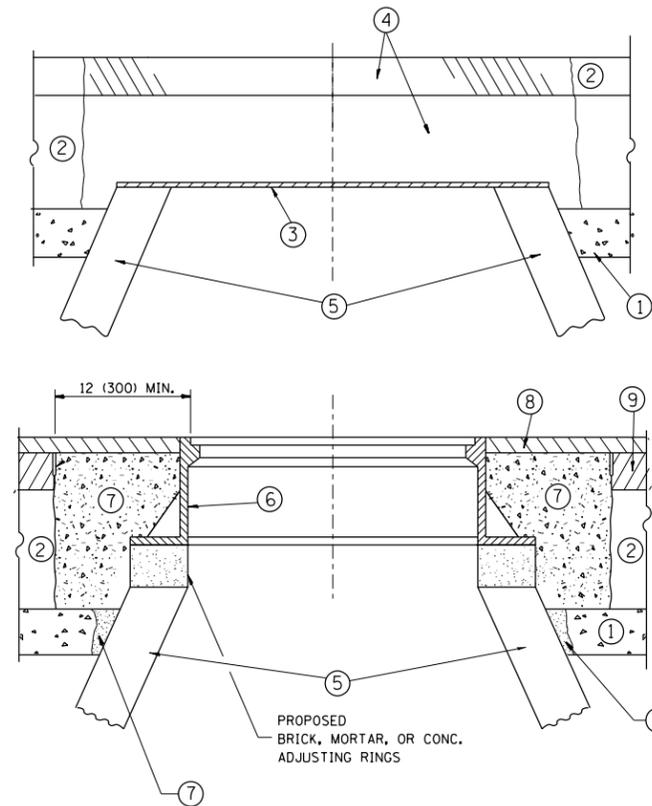
IF THE AVERAGE GRADE OF PAVEMENT FOR THE DISTANCE FROM SECTION A-A TO D-D EXCEEDS 2%, THIS DISTANCE SHALL BE INCREASED 6' (1.8 m) FOR EACH 1% INCREASE IN GRADE.

QUANTITIES

FOR SECTION A-A TO E-E AND CURTAIN WALL =
 1.25 CU. YDS. (0.96 m³) CLASS SI CONCRETE (OUTLET) FOR 9\"/>

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

FILE NAME =	USER NAME = PencePL	DESIGNED - M. DE YONG	REVISED - R. SHAH 09-09-94	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	OUTLET FOR CONCRETE CURB AND GUTTER			F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
pw:\11084EBIDINTEG.illinois.gov\PI\DOT\Documents\IDOT Offices\District 1\Projects\PI7044\Drawings\Design\DistStd.dgn			REVISED - R. SHAH 10-25-94		3338.344	116TS&N-2	LAKE	102	88			
PLOT SCALE = 100.0000' / 1\"/>												
PLOT DATE = 10/27/2016	DATE = 08-04-86	REVISED -			SCALE: NONE	SHEET NO. 1 OF 1 SHEETS	STA. TO STA.	BD600-01 (BD-03) CONTRACT NO. 60W92 <small>FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT</small>				



CONSTRUCTION PROCEDURES

STAGE 1 (BEFORE PAVEMENT MILLING)

- A) REMOVE A MINIMUM OF 12 (300) OF THE PAVEMENT FROM AROUND THE STRUCTURE.
- B) REMOVE THE EXISTING FRAME AND LID FROM THE STRUCTURE.
- C) COVER THE STRUCTURE OPENING WITH A 36 (900) DIAMETER METAL PLATE.
- D) BACKFILL WITH CRUSHED STONE AND A MINIMUM 1/2 (40) THICK HMA SURFACE MIX APPROVED BY THE ENGINEER.

STAGE 2 (AFTER PAVEMENT MILLING)

- A) REMOVE THE HMA SURFACE MIX AND CRUSHED STONE.
- B) INSTALL THE FRAME AND LID; ADJUST THE FRAME TO ITS FINAL SURFACE ELEVATION.
- C) THE SURROUNDING SPACE SHALL BE FILLED WITH CLASS PP-1* CONCRETE TO THE ELEVATION OF THE SURFACE OF THE EXISTING BASE COURSE OR THE BINDER COURSE.

* UNLESS OTHERWISE SPECIFIED IN THE PLANS.

THE PROCEDURE EXPLAINED ABOVE SHALL CONFORM TO THE APPLICABLE PORTIONS OF SECTIONS 353, 406, 602, AND 603 OF THE STANDARD SPECIFICATIONS EXCEPT THAT "THE CONTRACTOR SHALL ADJUST THE STRUCTURES TO THE FINISHED PAVEMENT ELEVATION NO MORE THAN 5 CALENDAR DAYS PRIOR TO PLACEMENT OF THE FINAL LIFT OF SURFACE UNLESS APPROVED BY THE ENGINEER."

LEGEND

- ① SUB-BASE GRANULAR MATERIAL
- ② EXISTING PAVEMENT
- ③ 36 (900) DIAMETER METAL PLATE
- ④ PROPOSED CRUSHED STONE AND HMA SURFACE MIX
- ⑤ EXISTING STRUCTURE
- ⑥ FRAME AND LID (SEE NOTES)
- ⑦ CLASS PP-1* CONCRETE
- ⑧ PROPOSED HMA SURFACE COURSE
- ⑨ PROPOSED HMA BINDER COURSE

LOCATION OF STRUCTURES:

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

BASIS OF PAYMENT:

REMOVING FRAMES AND LIDS ON DRAINAGE AND UTILITY STRUCTURES IN THE PAVEMENT PRIOR TO MILLING, AND ADJUSTING TO FINAL GRADE PRIOR TO PLACING THE SURFACE COURSE, WILL BE PAID FOR AT THE CONTRACT UNIT PRICE EACH FOR "FRAMES AND LIDS TO BE ADJUSTED (SPECIAL)."

THIS WORK WILL NOT BE PAID FOR WHEN DRAINAGE AND UTILITY STRUCTURES ARE SPECIFIED FOR PAYMENT AS STRUCTURE RECONSTRUCTION.

NEW FRAMES AND LIDS, WHEN SPECIFIED, WILL BE PAID FOR SEPARATELY.

NOTES:

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

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

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

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

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

DETAILS FOR FRAMES AND LIDS ADJUSTMENT WITH MILLING

ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN

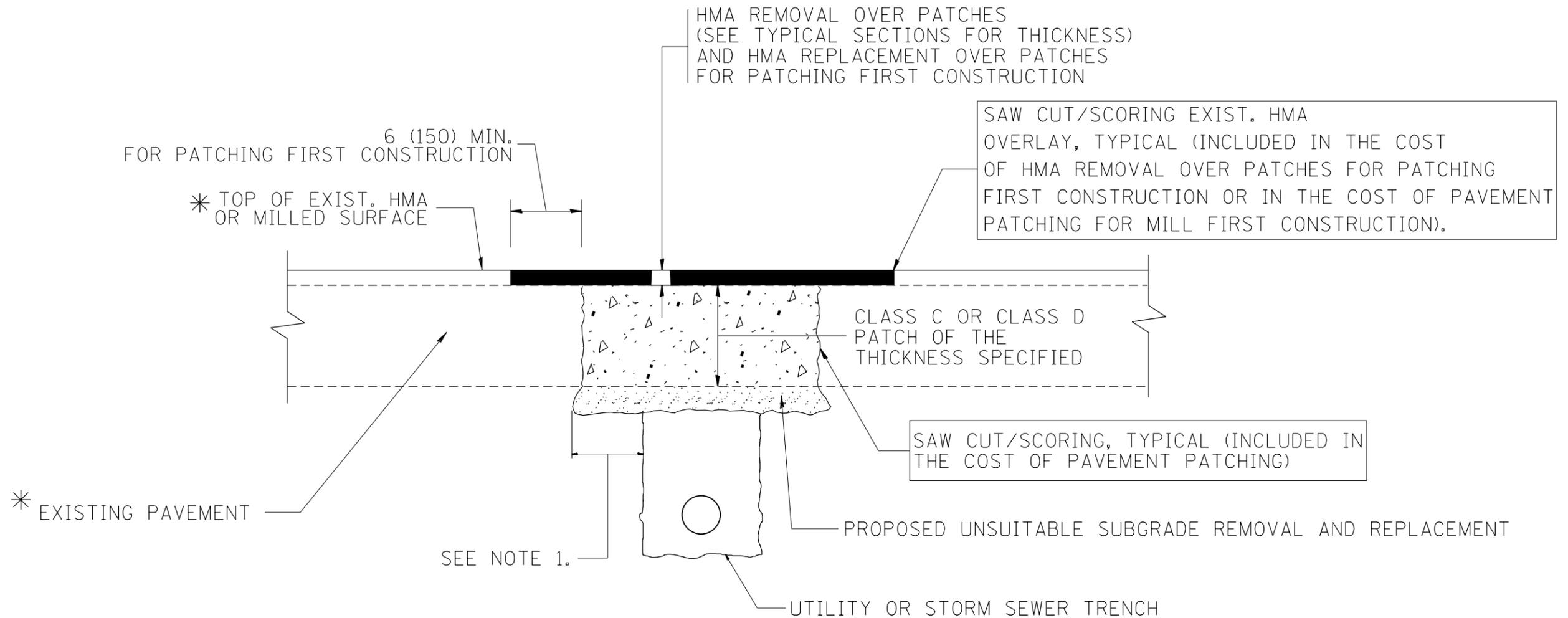
FILE NAME =	USER NAME = PencePL	DESIGNED - R. SHAH	REVISED - R. WIEDEMAN 05-14-04
pw\11084EBIDINTEG.illinois.gov\PIWIDOT\Documents\IDOT Offices\District 1\Projects\PI704\Drawings\Design\DistStd.dgn			REVISED - R. BORO 01-01-07
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	PLOT DATE = 10/27/2016	DATE - 10-25-94	REVISED - R. BORO 12-06-11

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**DETAILS FOR
FRAMES AND LIDS ADJUSTMENT WITH MILLING**

SCALE: NONE SHEET NO. 1 OF 1 SHEETS STA. TO STA.

F.A.P. RTE. 3338344	SECTION 116TS&N-2	COUNTY LAKE	TOTAL SHEETS 102	SHEET NO. 89
BD600-03 (BD-8)		CONTRACT NO. 60W92		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



* SEE TYPICAL SECTIONS FOR THICKNESS AND MATERIALS

NOTES:

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

SEQUENCE OF CONSTRUCTION (PATCHING FIRST)

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

SEQUENCE OF CONSTRUCTION (MILLING FIRST)

1. MILL HMA FIRST IF THERE IS AT LEAST 4 1/2 INCHES OR MORE OF HMA MATERIAL ON TOP OF THE EXISTING PAVEMENT OR IF THE PAVEMENT IS FULL DEPTH HMA. A MINIMUM OF 2 INCHES OF HMA MATERIAL SHALL BE IN PLACE AFTER MILLING.
2. REMOVE AND REPLACE WITH FULL DEPTH CLASS D PATCHES TO TOP OF MILLED SURFACE.

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

FILE NAME =	USER NAME = PencePL	DESIGNED - R. SHAH	REVISED - A. ABBAS 04-27-98	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	PAVEMENT PATCHING FOR HMA SURFACED PAVEMENT			F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
pw\11084EBIDINTEG.illinois.gov\PIWIDOT\Documents\IDOT Offices\District 1\Projects\PI704\Drawings\Design\DistStd.dgn			REVISED - R. BORO 01-01-07					3338344	116TS&N-2	LAKE	102	90
PLOT SCALE = 100.0000' / 1in.	CHECKED -	REVISED - R. BORO 09-04-07			BD400-04 (BD-22)			CONTRACT NO. 60W92				
PLOT DATE = 10/27/2016	DATE - 10-25-94	REVISED - K. ENG 10-27-08			SCALE: NONE	SHEET NO. 1 OF 1 SHEETS	STA.	TO STA.	FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT			

VARIABLE - TO MEET EXISTING DIMENSIONS AND FIELD CONDITIONS (SEE NOTE ②)

PROP. CONC. CURB OR CURB AND GUTTER REPLACEMENT IN ACCORDANCE WITH STATE STANDARD 606001. (SEE NOTE ②)

SAW CUT FULL DEPTH - INCLUDED IN THE COST OF SIDEWALK, DRIVEWAY OR MEDIAN SURFACE REMOVAL PAY ITEM.

EXISTING SIDEWALK, DRIVEWAY, MEDIAN SURFACE, SOD OR GROUND.

PROPOSED SIDEWALK, DRIVEWAY PAVEMENT, MEDIAN SURFACE OR SODDING SALT TOLERANT WITH TOP SOIL, 4" (100) SOD RESTORATION (SEE NOTE ①).

SUITABLE BACKFILL MATERIAL (INCLUDED IN THE COST OF CURB OR CURB AND GUTTER REMOVAL AND REPLACEMENT)

PROPOSED 3/4" (20) PREFORMED EXPANSION JOINT AT CONCRETE SIDEWALKS, DRIVEWAYS, AND MEDIANS. (INCLUDED IN THE COST OF CURB OR CURB AND GUTTER REMOVAL AND REPLACEMENT.)

UNSUITABLE SUB-BASE MATERIAL TO BE REMOVED, IF DIRECTED BY THE ENGINEER, SHALL BE REPLACED WITH EITHER SUB-BASE GRANULAR MATERIAL, TYPE B OR ADDITIONAL THICKNESS OF CONCRETE.

REMOVAL AND REPLACEMENT 4" (100) OR LESS IS INCLUDED IN THE COST OF CURB OR CURB AND GUTTER REMOVAL AND REPLACEMENT.

REMOVAL AND REPLACEMENT IN EXCESS OF 4" (100) WILL BE PAID FOR IN ACCORDANCE WITH ARTICLE 109.04 OF THE STANDARD SPECIFICATIONS.

PROPOSED #6 (20) EPOXY COATED TIE BARS 24" (600) LONG AT 24" (600) CENTERS WILL NOT BE PAID FOR SEPARATELY. DELETE EPOXY COATED TIE BARS IF EXISTING TIE BARS ARE USUABLE AS DETERMINED BY THE ENGINEER. (SEE NOTE ③).

BASIS OF PAYMENT:
THIS WORK WILL BE PAID FOR AT THE CONTRACT UNIT PRICE PER FOOT (METER) FOR "CURB REMOVAL AND REPLACEMENT" OR "COMBINATION CONCRETE CURB AND GUTTER REMOVAL AND REPLACEMENT".

SEE STATE STANDARD 606001
EXISTING OR PROPOSED HMA SURFACE (IF APPLICABLE)
1/4" (5) **

18" (450) MAX.

3" (75) MIN.

EXISTING CONCRETE PAVEMENT, CONCRETE BASE COURSE OR FLEXIBLE PAVEMENT

* 3" (75) MINIMUM FROM TOP AND BOTTOM OF THE CONCRETE PAVEMENT OR BASE COURSE.

** IF THE FINAL SURFACE OF THE PAVEMENT IS CONCRETE, THE GUTTER IS TO BE FLUSH WITH THE PAVEMENT.

NOTE: ① SIDEWALK, DRIVEWAY PAVEMENT OR MEDIAN SURFACE SHALL BE SIMILAR TO THE MATERIAL BEING REMOVED AND WILL BE PAID FOR SEPARATELY.

SODDING, SALT TOLERANT AND TOP SOIL, FURNISH AND PLACE 4" WILL BE PAID FOR SEPARATELY.

② FERTILIZER FOR THE PLACEMENT OF THE SOD IS NOT REQUIRED

③ CURB OR CURB AND GUTTER REPLACEMENT SHALL MATCH THE SHAPE OF THE EXISTING CURB OR CURB AND GUTTER UNLESS OTHERWISE SPECIFIED.

④ FOR CURB OR CURB AND GUTTER REMOVAL AND REPLACEMENT ADJACENT TO FLEXIBLE PAVEMENT DELETE EPOXY COATED TIE BARS.

⑤ LONGITUDINAL BARS, IF ENCOUNTERED IN THE EXISTING CURB OR CURB AND GUTTER, ARE NOT TO BE REPLACED. CUTTING AND REMOVING LONGITUDINAL BARS SHALL BE INCLUDED IN THE COST OF CURB OR CURB AND GUTTER REMOVAL AND REPLACEMENT.

⑥ THE COST OF HMA SURFACE REMOVAL IN THE EXISTING GUTTER FLAG SHALL BE INCLUDED IN THE COST OF THE CURB AND GUTTER REMOVAL AND REPLACEMENT.

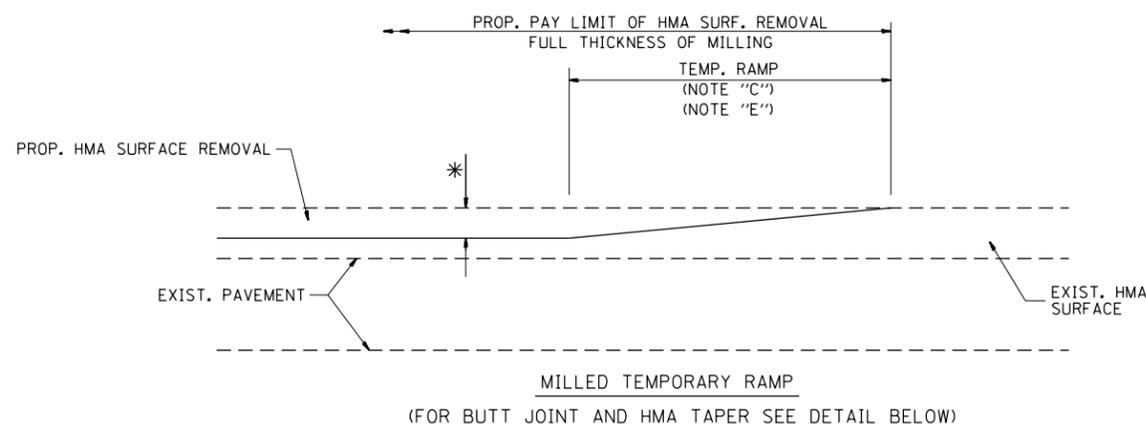
⑦ THE REMOVAL AND REPLACEMENT OF THE EXISTING CURB OR CURB AND GUTTER SHALL BE DONE IN ACCORDANCE WITH THE APPLICABLE PORTIONS OF SECTION 440 AND 606 OF THE STANDARD SPECIFICATIONS.

⑧ THE LOCATIONS OF REMOVAL AND REPLACEMENT OF EXISTING CURB OR CURB AND GUTTER SHALL BE DETERMINED BY THE RESIDENT ENGINEER AT THE TIME OF CONSTRUCTION.

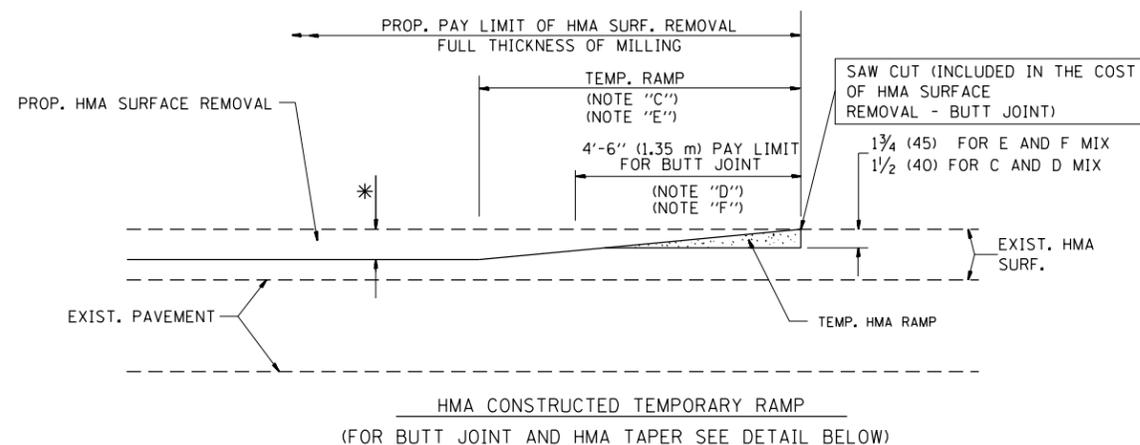
CURB OR CURB AND GUTTER REMOVAL AND REPLACEMENT

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

FILE NAME =	USER NAME = PencePL	DESIGNED - A. HOUSEH	REVISED - R. SHAH 10-03-96	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	CURB OR CURB AND GUTTER REMOVAL AND REPLACEMENT	F.A.P. RTE. 3338344	SECTION 116TS&N-2	COUNTY LAKE	TOTAL SHEETS 102	SHEET NO. 91		
pw\11084EBIDINTEG.illinois.gov\PIWIDOT\Documents\DOT Offices\District 1\Projects\PI704\Drawings\Design\DistStd.dgn	PLOT SCALE = 100.0000' / 1in.	CHECKED -	REVISED - M. GOMEZ 01-22-01			SCALE: NONE	SHEET NO. 1 OF 1 SHEETS	STA.	TO STA.	FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT		
PLOT DATE = 10/27/2016	DATE - 03-11-94	REVISED - R. BORO 12-15-09				BD600-06 (BD-24) CONTRACT NO. 60W92						

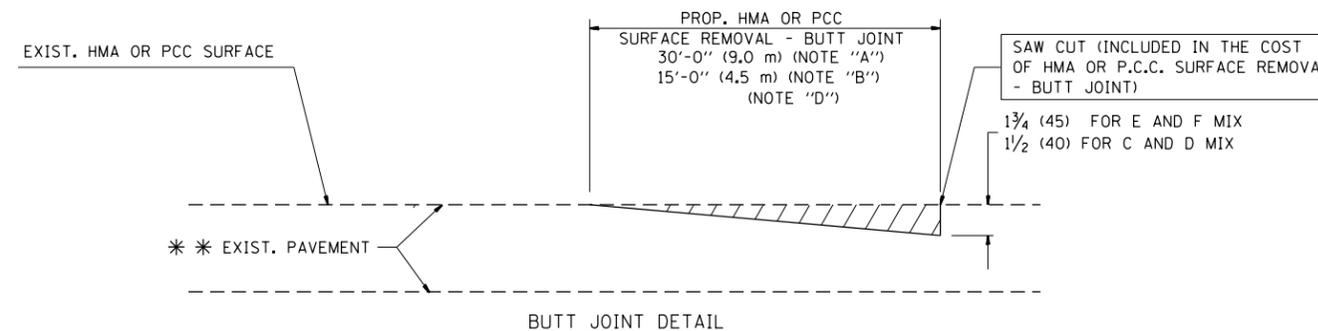


OPTION 1

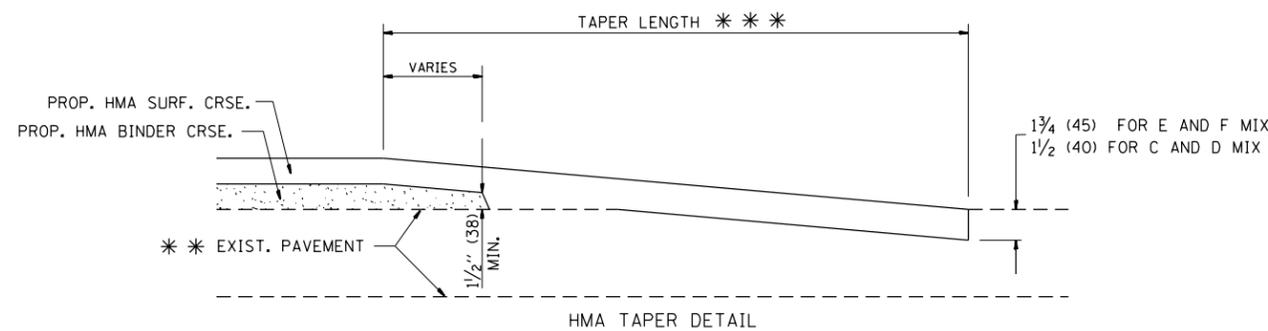


OPTION 2

TYPICAL TEMPORARY RAMP



BUTT JOINT DETAIL



HMA TAPER DETAIL

TYPICAL BUTT JOINT AND HMA TAPER FOR RESURFACING ONLY

*** PC CONCRETE, HMA OR HMA RESURFACED PAVEMENT.

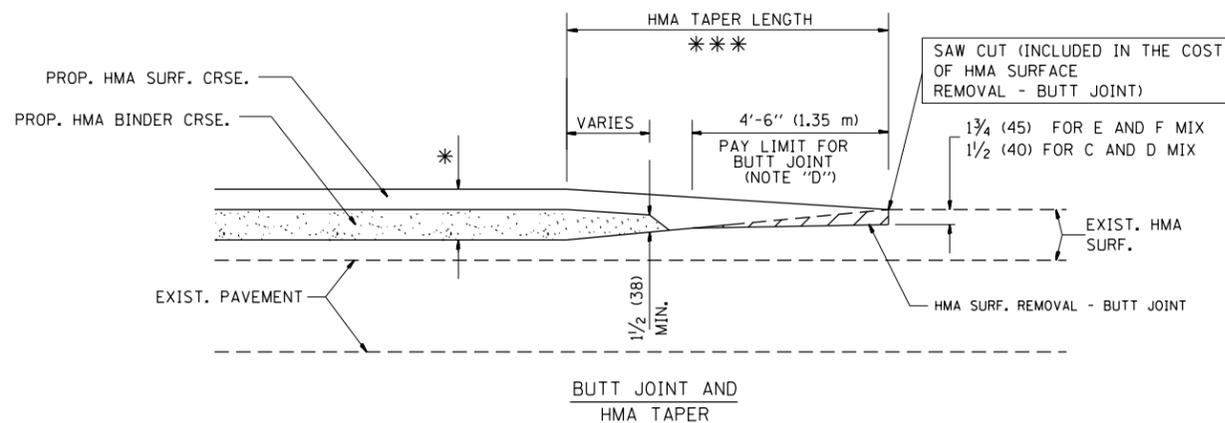
NOTES

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

BASIS OF PAYMENT:

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

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



TYPICAL BUTT JOINT AND HMA TAPER FOR MILLING AND RESURFACING

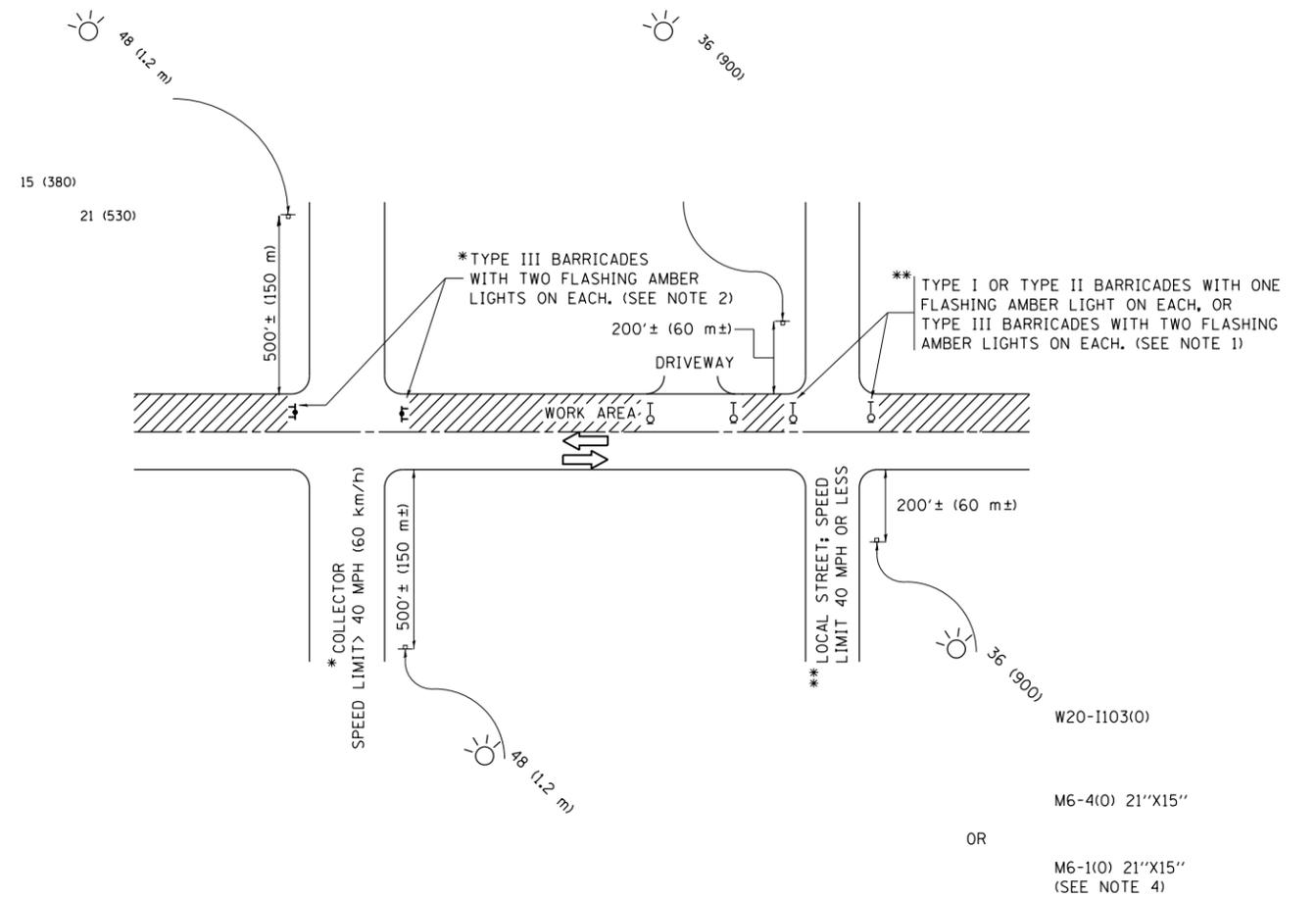
FILE NAME =	USER NAME = PencePL	DESIGNED - M. DE YONG	REVISED - R. SHAH 10-25-94
pw\11084EBIDINTEG.illinois.gov\PI\DOT\Documents\DOT Offices\District 1\Projects\PI704\Drawings\Design\DistStd.dgn			REVISED - A. ABBAS 03-21-97
	PLOT SCALE = 100.0000' / 1in.	CHECKED -	REVISED - M. GOMEZ 04-06-01
	PLOT DATE = 10/27/2016	DATE - 06-13-90	REVISED - R. BORO 01-01-07

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**BUTT JOINT AND
HMA TAPER DETAILS**

SCALE: NONE SHEET NO. 1 OF 1 SHEETS STA. TO STA.

F.A.P. RTE. 3338.344	SECTION 116TS&N-2	COUNTY LAKE	TOTAL SHEETS 102	SHEET NO. 92
BD400-05 BD32		CONTRACT NO. 60W92		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



NOTES:

1. SIDE ROAD WITH A SPEED LIMIT OF 40 MPH (60 km/h) OR LESS AS SHOWN ON THE DRAWING AND AS DIRECTED BY THE ENGINEER:
 - a) ONE "ROAD CONSTRUCTION AHEAD" SIGN 36 x 36 (900x900) WITH A FLASHER MOUNTED ON IT APPROXIMATELY 200' (60 m) IN ADVANCE OF THE MAIN ROUTE.
 - b) THE CLOSED PORTION OF THE MAIN ROUTE SHALL BE PROTECTED BY BLOCKING WITH TYPE I, TYPE II OR TYPE III BARRICADES, 1/3 OF THE CROSS SECTION OF THE CLOSED PORTION.
2. SIDE ROAD WITH A SPEED LIMIT GREATER THAN 40 MPH (60 km/h) AS SHOWN ON THE DRAWING AND AS DIRECTED BY THE ENGINEER:
 - a) ONE "ROAD CONSTRUCTION AHEAD" SIGN 48 x 48 (1.2 m x 1.2 m) WITH A FLASHER MOUNTED ON IT APPROXIMATELY 500' (150 m) IN ADVANCE OF THE MAIN ROUTE.
 - b) THE CLOSED PORTION OF THE MAIN ROUTE SHALL BE PROTECTED BY BLOCKING WITH TYPE III BARRICADES, 1/2 OF THE CROSS SECTION OF THE CLOSED PORTION.
3. CONES MAY BE SUBSTITUTED FOR BARRICADES OR DRUMS AT HALF THE SPACING DURING DAY OPERATIONS. CONES SHALL BE A MINIMUM OF 28 (710) IN HEIGHT.
4. WHEN THE SIDE ROAD LIES BETWEEN THE BEGINNING OF THE MAINLINE SIGNING AND THE WORK ZONE, A SINGLE HEADED ARROW (M6-1) SHALL BE USED IN LIEU OF THE DOUBLE HEADED ARROW (M6-4).
5. WHEN WORK IS BEING PERFORMED ON A SIDE ROAD OR DRIVEWAY, FOLLOW THE APPLICABLE STANDARD(S). THE DIRECTIONAL ARROW (M6-1 OR M6-4) SHALL BE COVERED OR REMOVED WHEN NO LONGER CONSISTENT WITH THE TRAFFIC CONTROL SET-UP.
6. ADVANCE WARNING SIGNS ARE TO BE OMITTED ON DRIVEWAYS UNLESS OTHERWISE SPECIFIED IN THE PLANS OR BY THE ENGINEER.
7. THE TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS SHALL BE INCLUDED IN THE COST OF SPECIFIED TRAFFIC CONTROL STANDARDS OR ITEMS.

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

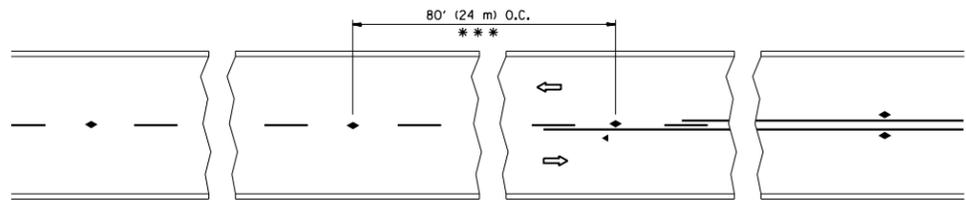
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p:\11084EBIDINTEG\illinois.gov\PIWIDOT\Documents\IDOT Offices\District 1\Projects\PI704\DRAWING\Design\DistStd.dgn			REVISED - T. RAMMACHER 01-06-00
Default	PLOT SCALE = 100.0000' / in.	CHECKED -	REVISED - A. SCHUETZE 07-01-13
	PLOT DATE = 10/27/2016	DATE - 06-89	REVISED - A. SCHUETZE 09-15-16

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

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

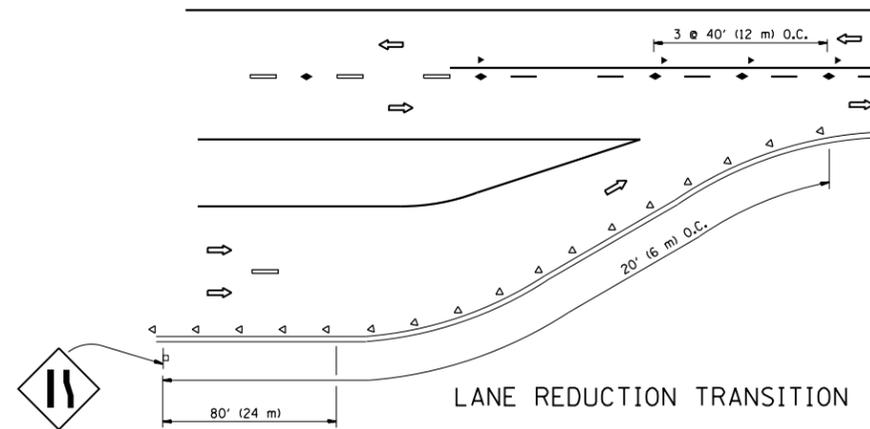
SCALE: NONE SHEET 1 OF 1 SHEETS STA. TO STA.

F.A.P. RTE. 3338344	SECTION 116TS&N-2	COUNTY LAKE	TOTAL SHEETS 102	SHEET NO. 93
TC-10		CONTRACT NO. 60W92		
ILLINOIS FED. AID PROJECT				

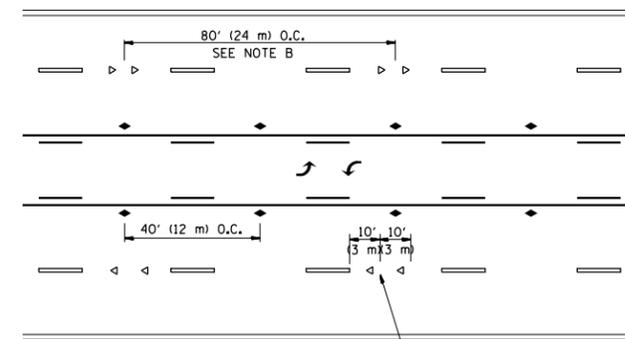


*** REDUCE TO 40' (12 m) O.C. ON CURVES WITH POSTED OR ADVISORY SPEED 45 M.P.H. (70 km/h) OR LESS.

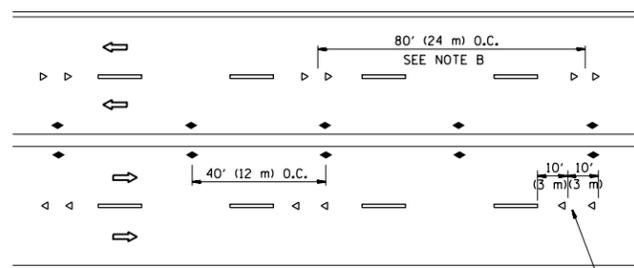
TWO-LANE/TWO-WAY



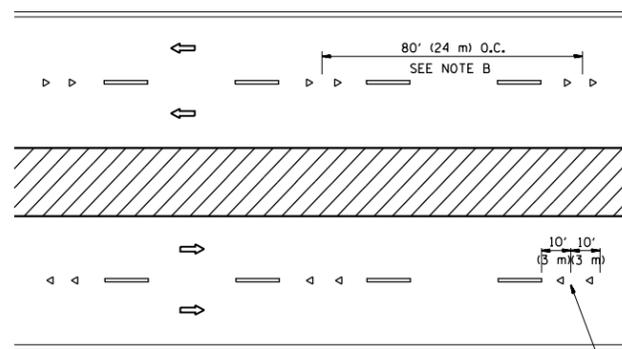
LANE REDUCTION TRANSITION



TWO-WAY LEFT TURN



MULTI-LANE/UNDIVIDED



MULTI-LANE/DIVIDED

GENERAL NOTES

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

SYMBOLS

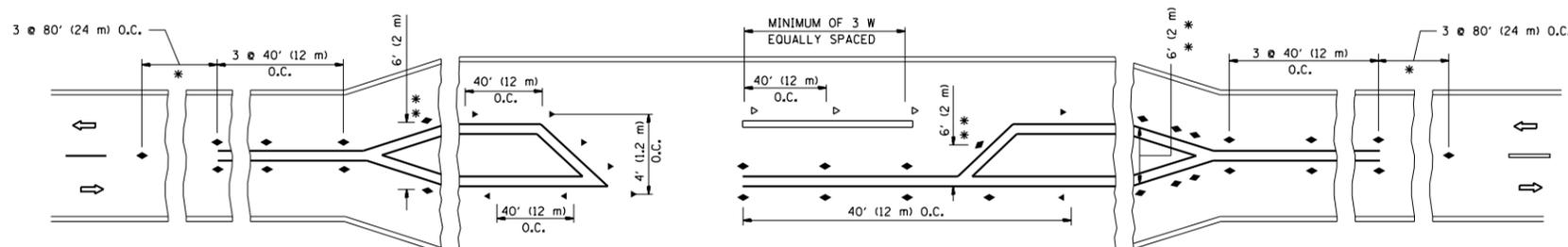
- YELLOW STRIPE
- WHITE STRIPE
- ◀ ONE-WAY AMBER MARKER
- ◁ ONE-WAY CRYSTAL MARKER (W/O)
- ◆ TWO-WAY AMBER MARKER

LANE MARKER NOTES

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

DESIGN NOTES

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



* SEE TWO-LANE/TWO-WAY WHERE MARKERS CONTINUE
 ** WHERE THE MEDIAN WIDTH IS 6' (2 m) OR LESS USE TWO-WAY MARKERS.

LEFT TURN

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

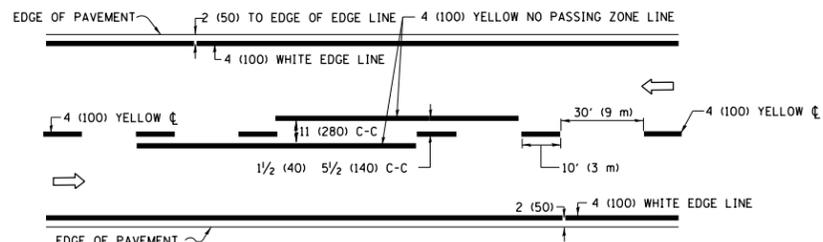
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		DATE -	REVISED - T. RAMMACHER 01-06-00
			REVISED - C. JUCIUS 09-09-09

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

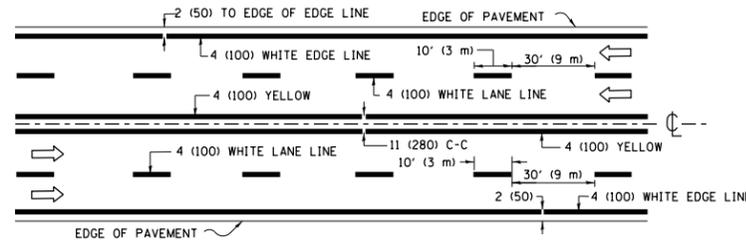
TYPICAL APPLICATIONS
 RAISED REFLECTIVE PAVEMENT MARKERS (SNOW-PLOW RESISTANT)

SCALE: NONE SHEET NO. 1 OF 1 SHEETS STA. TO STA.

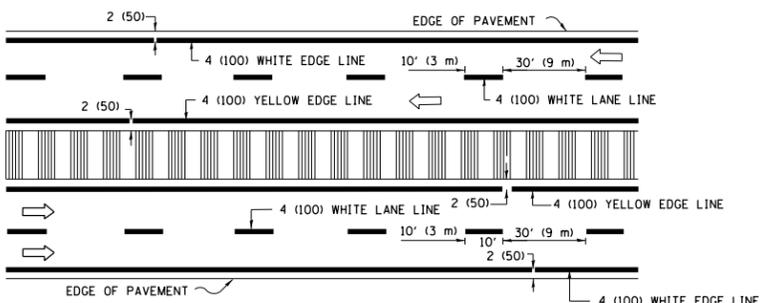
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3338344	116TS&N-2	LAKE	102	94
TC-11		CONTRACT NO. 60W92		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



2-LANE ROADWAY

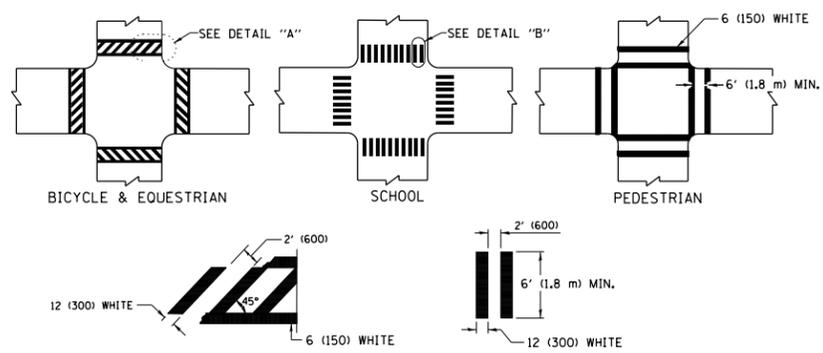


MULTI-LANE UNDIVIDED



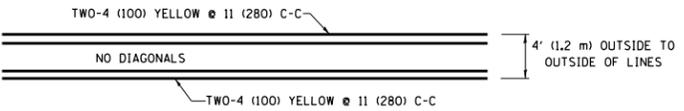
MULTI-LANE DIVIDED WITH MEDIAN

TYPICAL LANE AND EDGE LINE MARKING

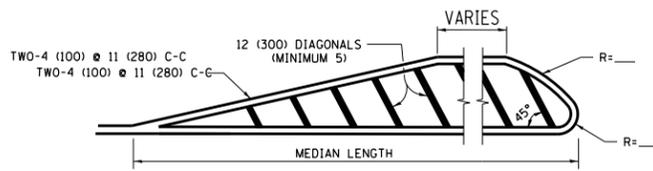


TYPICAL CROSSWALK MARKING

* MARKINGS SHALL BE INSTALLED PARALLEL TO THE CENTERLINE OF THE ROAD WHICH IT CROSSES

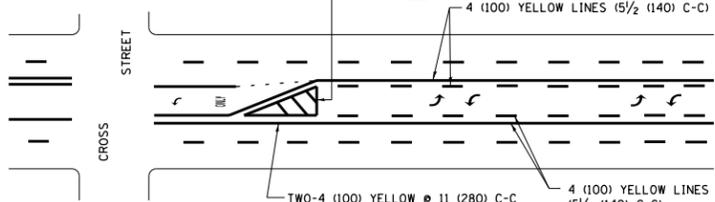


4' (1.2 m) WIDE MEDIANS ONLY



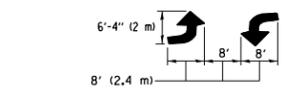
MEDIANS OVER 4' (1.2 m) WIDE

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



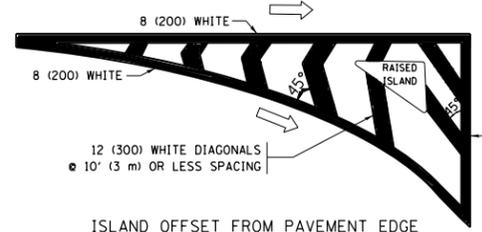
MEDIAN WITH TWO-WAY LEFT TURN LANE TYPICAL PAINTED MEDIAN MARKING

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

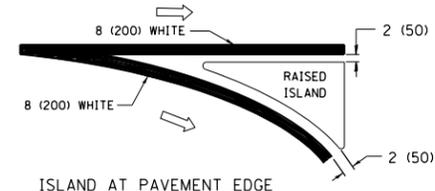


TYPICAL LEFT (OR RIGHT) TURN LANE TYPICAL TURN LANE MARKING

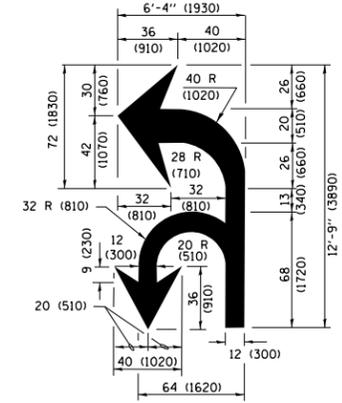
FULL SIZE LETTERS 8' (2.4 m) AND ARROWS SHALL BE USED.
AREA = 15.6 SQ. FT. (1.5 m²) ONLY AREA = 20.8 SQ. FT. (1.9 m²)
* TURN LANES IN EXCESS OF 400' (120 m) IN LENGTH MAY HAVE AN ADDITIONAL SET OF ARROW - "ONLY" INSTALLED MIDWAY BETWEEN THE OTHER TWO SETS OF ARROW - "ONLY".



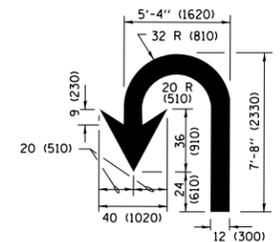
ISLAND OFFSET FROM PAVEMENT EDGE



ISLAND AT PAVEMENT EDGE TYPICAL ISLAND MARKING



COMBINATION LEFT AND U-TURN



U-TURN

LANE REDUCTION TRANSITION

* LANE REDUCTION ARROWS REQUIRED AT SPEEDS OF 45 MPH OR GREATER OR WHEN SPECIFIED IN PLANS.

D(FT)	SPEED LIMIT
345	30
425	35
500	40
580	45
665	50
750	55

TYPE OF MARKING	WIDTH OF LINE	PATTERN	COLOR	SPACING /REMARKS
CENTERLINE ON 2 LANE PAVEMENT	4 (100)	SKIP-DASH	YELLOW	10' (3 m) LINE WITH 30' (9 m) SPACE
CENTERLINE ON MULTI-LANE UNDIVIDED PAVEMENT	2 @ 4 (100)	SOLID	YELLOW	11 (280) C-C
NO PASSING ZONE LINES FOR ONE DIRECTION FOR BOTH DIRECTIONS	4 (100) 2 @ 4 (100)	SOLID SOLID	YELLOW YELLOW	5 1/2 (140) C-C FROM SKIP-DASH CENTERLINE 11 (280) C-C OMIT SKIP-DASH CENTERLINE BETWEEN
LANE LINES	4 (100) 5 (125) ON FREEWAYS	SKIP-DASH SKIP-DASH	WHITE WHITE	10' (3 m) LINE WITH 30' (9 m) SPACE
DOTTED LINES (EXTENSIONS OF CENTER, LANE OR TURN LANE MARKINGS)	SAME AS LINE BEING EXTENDED	SKIP-DASH	SAME AS LINE BEING EXTENDED	2' (600) LINE WITH 6' (1.8 m) SPACE
EDGE LINES	4 (100)	SOLID	YELLOW-LEFT WHITE-RIGHT	OUTLINE MEDIANS IN YELLOW
TURN LANE MARKINGS	6 (150) LINE; FULL SIZE LETTERS & SYMBOLS (8' (2.4m))	SOLID	WHITE	SEE TYPICAL TURN LANE MARKING DETAIL
TWO WAY LEFT TURN MARKING	2 @ 4 (100) EACH DIRECTION 8' (2.4m) LEFT ARROW	SKIP-DASH AND SOLID IN PAIRS	YELLOW WHITE	10' (3 m) LINE WITH 30' (9 m) SPACE FOR SKIP-DASH; 5 1/2 (140) C-C BETWEEN SOLID LINE AND SKIP-DASH LINE SEE TYPICAL TWO-WAY LEFT TURN MARKING DETAIL
CROSSWALK LINES (PEDESTRIAN) A. DIAGONALS (BIKE & EQUESTRIAN) B. LONGITUDINAL BARS (SCHOOL)	2 @ 6 (150) 12 (300) @ 45° 12 (300) @ 90°	SOLID SOLID SOLID	WHITE WHITE WHITE	NOT LESS THAN 6' (1.8 m) APART 2' (600) APART 2' (600) APART SEE TYPICAL CROSSWALK MARKING DETAILS.
STOP LINES	24 (600)	SOLID	WHITE	PLACE 4' (1.2 m) IN ADVANCE OF AND PARALLEL TO CROSSWALK, IF PRESENT, OTHERWISE, PLACE AT DESIRED STOPPING POINT, PARALLEL TO CROSSROAD CENTERLINE, WHERE POSSIBLE.
PAINTED MEDIANS	2 @ 4 (100) WITH 12 (300) DIAGONALS @ 45° NO DIAGONALS USED FOR 4' (1.2 m) WIDE MEDIANS	SOLID	YELLOW; TWO WAY TRAFFIC WHITE; ONE WAY TRAFFIC	11 (280) C-C FOR THE DOUBLE LINE SEE TYPICAL PAINTED MEDIAN MARKING.
GORE MARKING AND CHANNELIZING LINES	8 (200) WITH 12 (300) DIAGONALS @ 45°	SOLID	WHITE	DIAGONALS: 15' (4.5 m) C-C (LESS THAN 30MPH (50 km/h)) 20' (6 m) C-C 30MPH (50 km/h) TO 45MPH (70 km/h) 30' (9 m) C-C (OVER 45MPH (70 km/h))
RAILROAD CROSSING	24 (600) TRANSVERSE LINES; "RR" IS 6' (1.8 m) LETTERS; 16 (400) LINE FOR "X"	SOLID	WHITE	SEE STATE STANDARD 780001 AREA OF: "R"=3.6 SQ. FT. (0.33 m ²) EACH "X"=54.0 SQ. FT. (5.0 m ²)
SHOULDER DIAGONALS (REQUIRED FOR SHOULDERS ≥ 8')	12 (300) @ 45°	SOLID	WHITE - RIGHT YELLOW - LEFT	50' (15 m) C-C (LESS THAN 30MPH (50 km/h)) 75' (25 m) C-C (30 MPH (50 km/h) TO 45MPH (70 km/h)) 150' (45 m) C-C (OVER 45MPH (70 km/h))
U TURN ARROW	SEE DETAIL	SOLID	WHITE	16.3 SF
2 ARROW COMBINATION LEFT AND U TURN	SEE DETAIL	SOLID	WHITE	30.4 SF

FOR FURTHER DETAILS ON PAVEMENT MARKING REFER TO STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION AND STATE STANDARD 780001.

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

FILE NAME =	USER NAME = PencePL	DESIGNED - EVERS	REVISED - C. JUCIUS 09-09-09
pw\1\084EBIDINTEG\illinois.gov\PIWIDOT\Documents\DOT Offices\District 1\Projects\PI704\Drawings\Design\DistStd.dgn		CHECKED -	REVISED - C. JUCIUS 07-01-13
Default	PLOT SCALE = 100.0000' / in.	DATE - 03-19-90	REVISED - C. JUCIUS 12-21-15
	PLOT DATE = 10/27/2016		REVISED - C. JUCIUS 04-12-16

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

DISTRICT ONE TYPICAL PAVEMENT MARKINGS			
SCALE: NONE	SHEET 1	OF 1 SHEETS	STA. TO STA.

F.A.P. RTE. 3338344	SECTION 116T5&N-2	COUNTY LAKE	TOTAL SHEETS 102	SHEET NO. 95
TC-13		CONTRACT NO. 60W92	ILLINOIS FED. AID PROJECT	

TURN BAY ENTRANCE AT START OF LANE CLOSURE TAPER

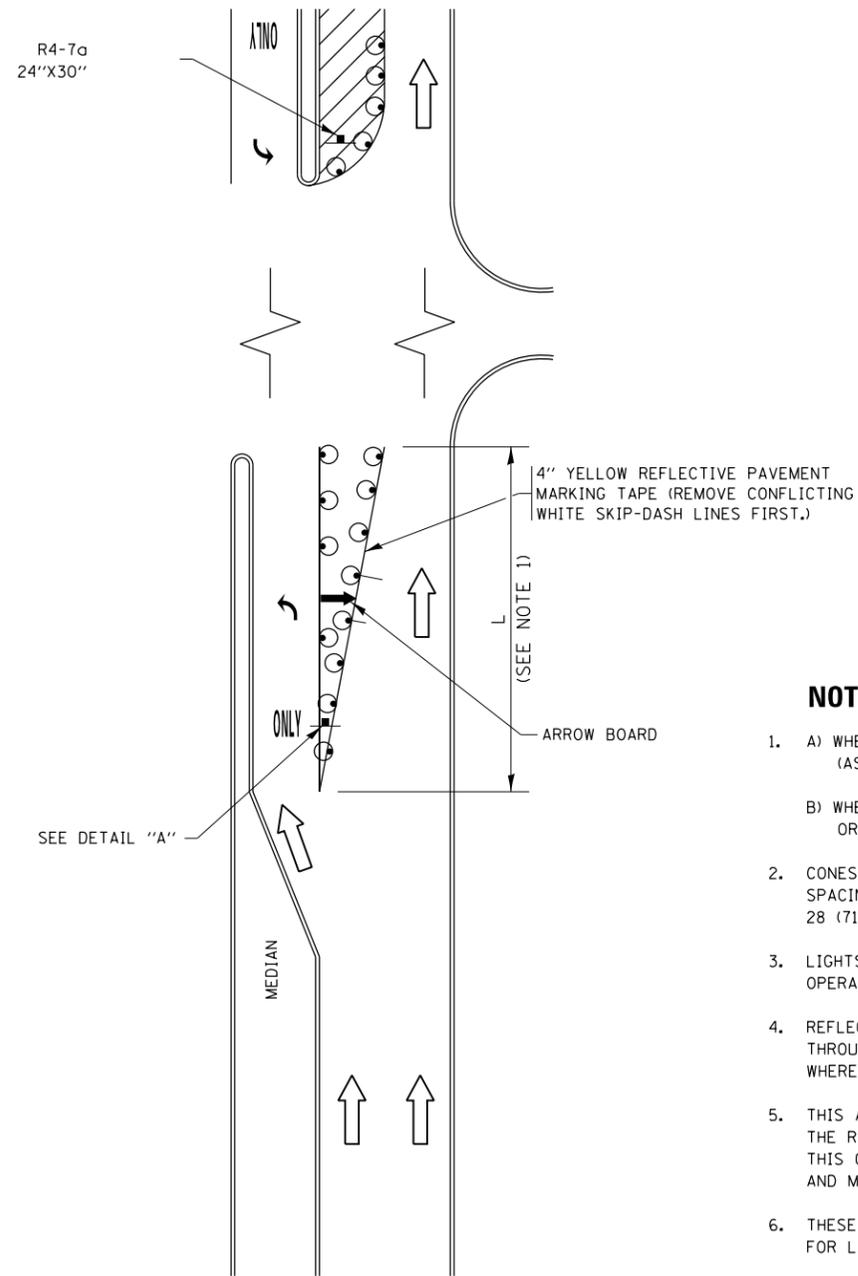
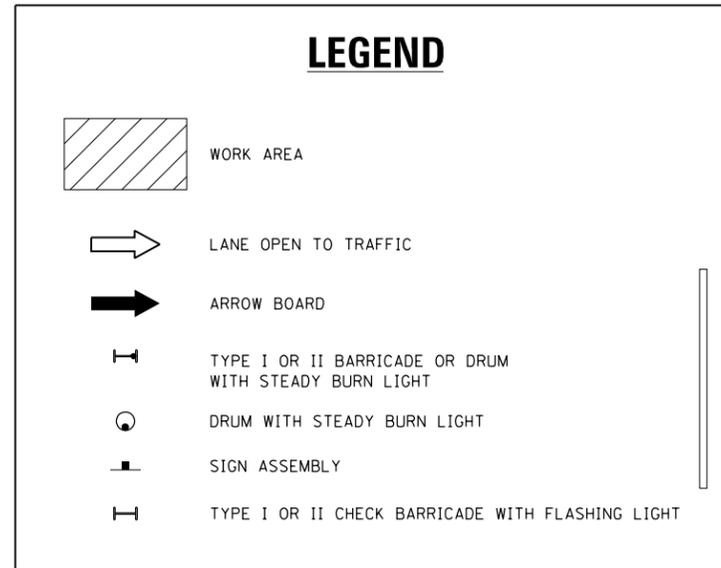


FIGURE 1



NOTES:

1. A) WHEN "L" IS \leq THE STORAGE LENGTH OF THE TURN LANE (AS SHOWN IN FIG. 1), USE FIGURE 1.
B) WHEN "L" IS $>$ THE STORAGE LENGTH OF THE TURN LANE OR THE TURN LANE IS WITHIN THE LANE CLOSURE, USE FIGURE 2.
2. CONES MAY BE SUBSTITUTED FOR BARRICADES OR DRUMS AT HALF THE SPACING DURING DAY OPERATIONS. CONES SHALL BE A MINIMUM OF 28 (710) IN HEIGHT.
3. LIGHTS WILL NOT BE REQUIRED ON BARRICADES OR DRUMS FOR DAY OPERATIONS. ALL LIGHTS SHALL BE MONODIRECTIONAL.
4. REFLECTIVE TEMPORARY PAVEMENT MARKINGS SHALL BE PLACED THROUGHOUT THE BARRICADED AREAS OF EACH TURN BAY AS SHOWN WHERE THE CLOSURE TIME IS GREATER THAN FOURTEEN (14) DAYS.
5. THIS APPLICATION ALSO APPLIES WHEN WORK IS BEING PERFORMED IN THE RIGHT LANE(S) AND THE RIGHT TURN BAY IS TO REMAIN OPEN. UNDER THIS CONDITION, "RIGHT TURN LANE" R3-I100R 24 x 24 (600 x 600) AND M6-2R 21 x 15 (530 x 380) SHALL BE USED.
6. THESE CONTROLS SHALL SUPPLEMENT MAINLINE TRAFFIC CONTROL FOR LANE CLOSURES.
7. THE SIGNS SHALL BE MOUNTED ABOVE THE BARRICADES/DRUMS ON SEPARATE SIGN SUPPORTS THAT MEET NCHRP 350 OR MASH PREQUIREMENTS.
8. TRAFFIC CONTROL AND PROTECTION AT TURN BAYS (TO REMAIN OPEN TO TRAFFIC) SHALL BE INCLUDED IN THE COST OF SPECIFIED TRAFFIC CONTROL STANDARDS OR ITEMS.

TURN BAY ENTRANCE WITHIN A LANE CLOSURE

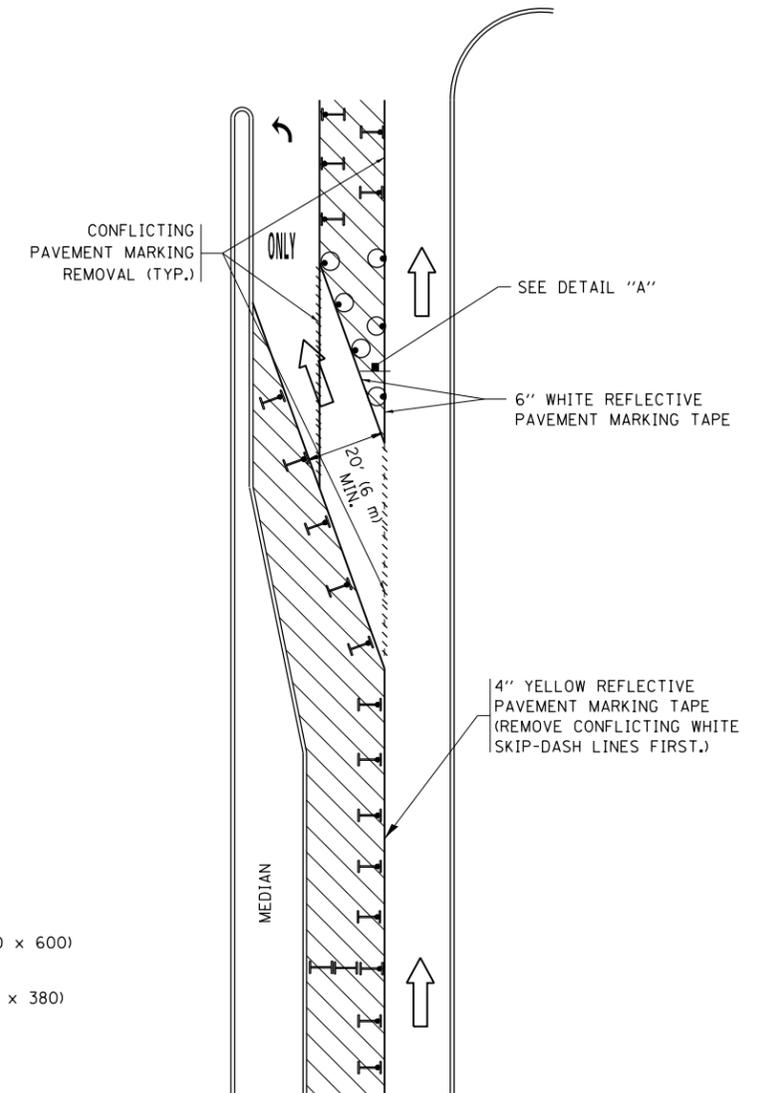
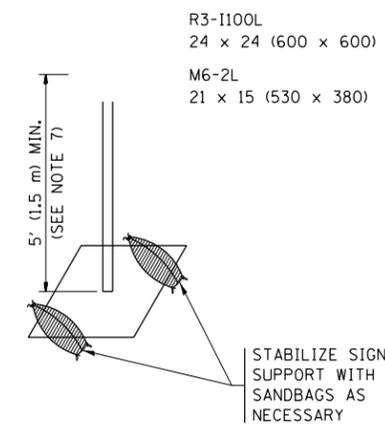


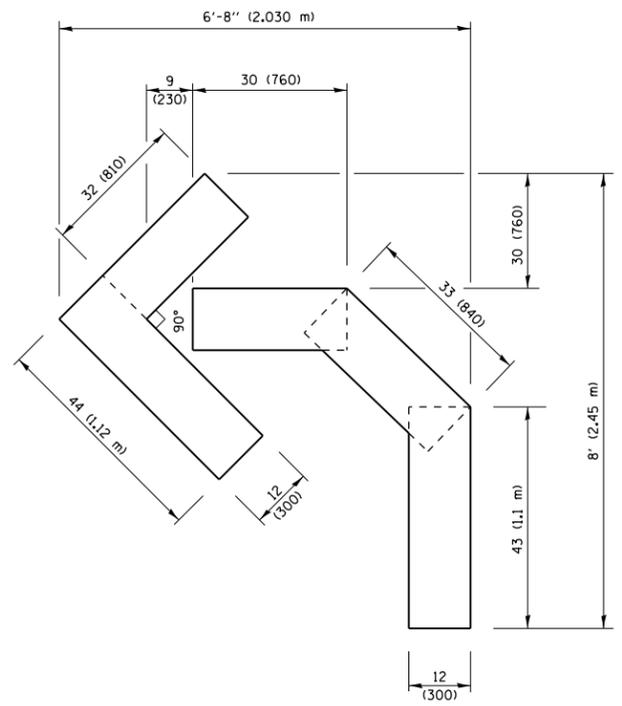
FIGURE 2



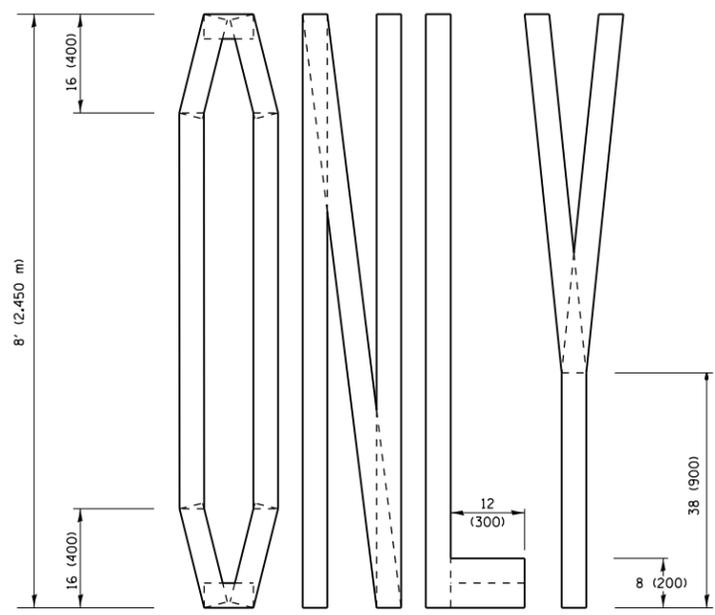
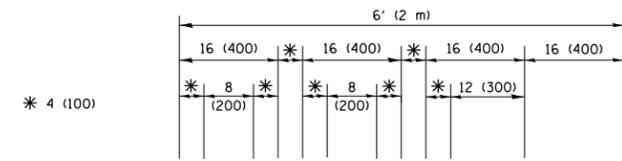
DETAIL A

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

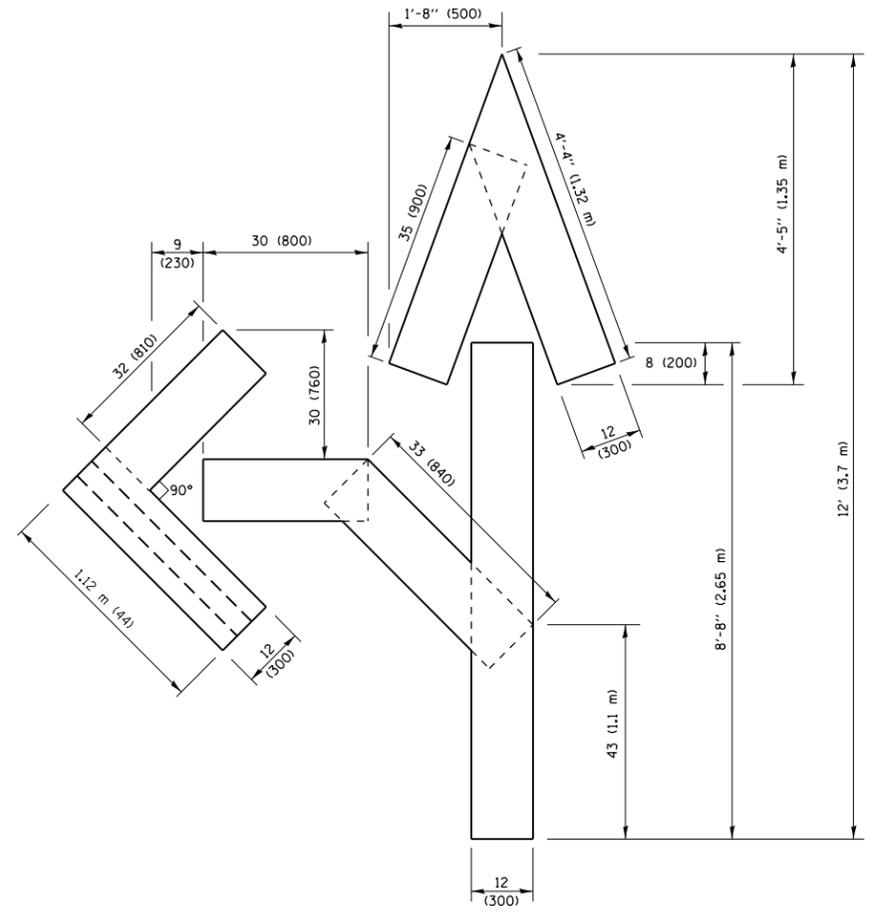
FILE NAME =	USER NAME = PencePL	REVISED - T. RAMMACHER 09-08-94	REVISED - R. BORO 09-14-09	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	TRAFFIC CONTROL AND PROTECTION AT TURN BAYS (TO REMAIN OPEN TO TRAFFIC)			F.A.P. R.T.E. =	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
Default		REVISED - A. HOUSEH 11-07-95	REVISED - A. SCHUETZE 07-01-13					3338344	116TS&N-2	LAKE	102	96
	PLOT SCALE = 100.0000' / in.	REVISED - A. HOUSEH 10-12-96	REVISED - A. SCHUETZE 09-15-16		TC-14			CONTRACT NO. 60W92				
	PLOT DATE = 10/27/2016	REVISED - T. RAMMACHER 01-06-00	REVISED -		ILLINOIS FED. AID PROJECT							



QUANTITY
 4 (100) LINE = 45.5 ft. (13.9 m)
 15.2 sq. ft. (1.41 sq. m)

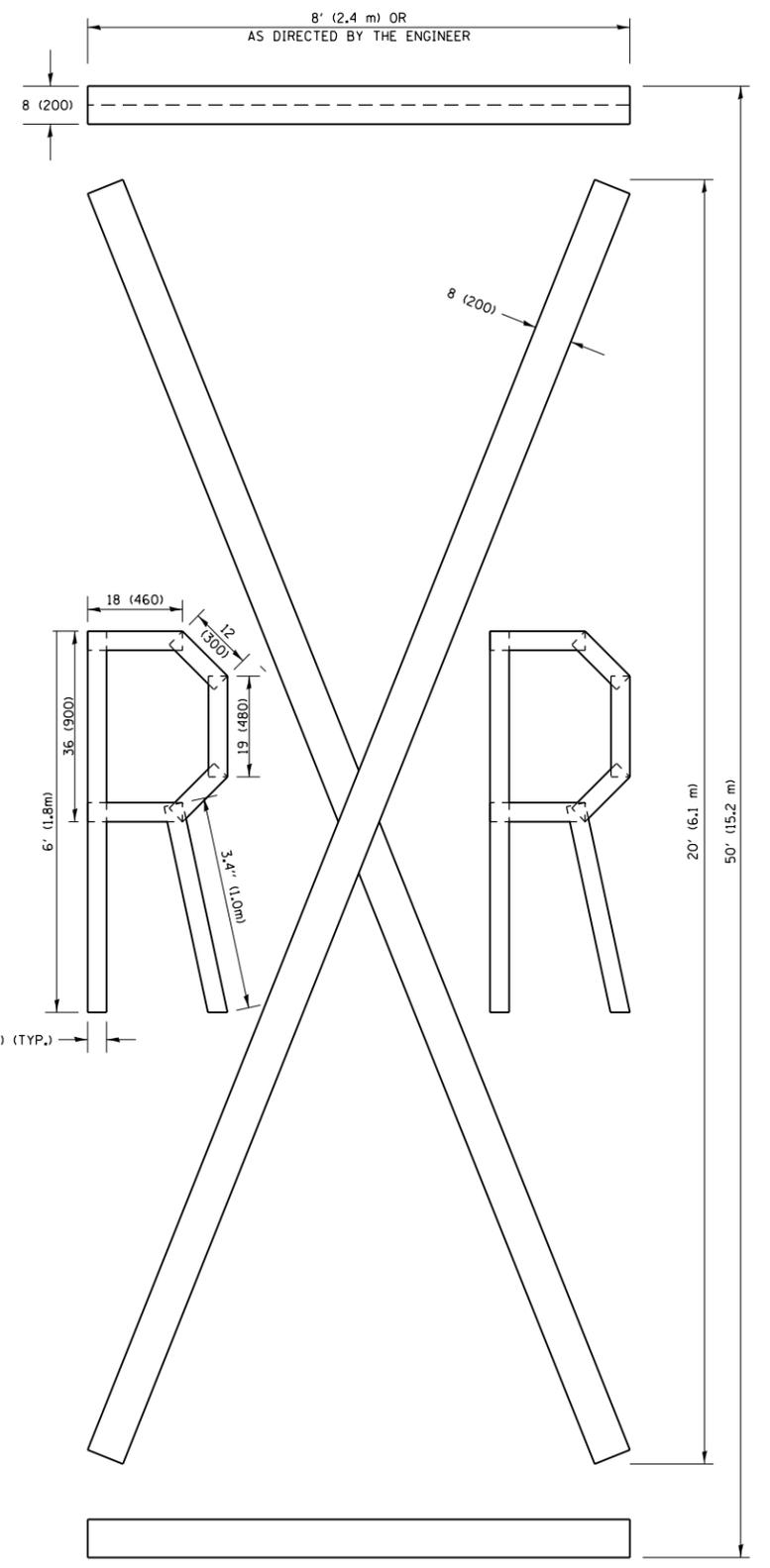


QUANTITY
 4 (100) LINE = 64.1 ft. (19.5 m)
 21.4 sq. ft. (1.99 sq. m)



QUANTITY
 4 (100) LINE = 82.5 ft. (25.1 m)
 27.5 sq. ft. (2.53 sq. m)

NOTE:
 ALL QUANTITIES OF PLACEMENT ARE REPRESENTED IN LINEAR FEET OF 4" LINES TO MATCH THE 4" TEMPORARY TAPE PAY ITEM AND REPRESENTS THE TOTAL QUANTITY OF 4" TAPE REQUIRED.



QUANTITY
 4 (100) LINE = 225.9 ft. (68.9 m)
 75.3 sq. ft. (6.99 sq. m)

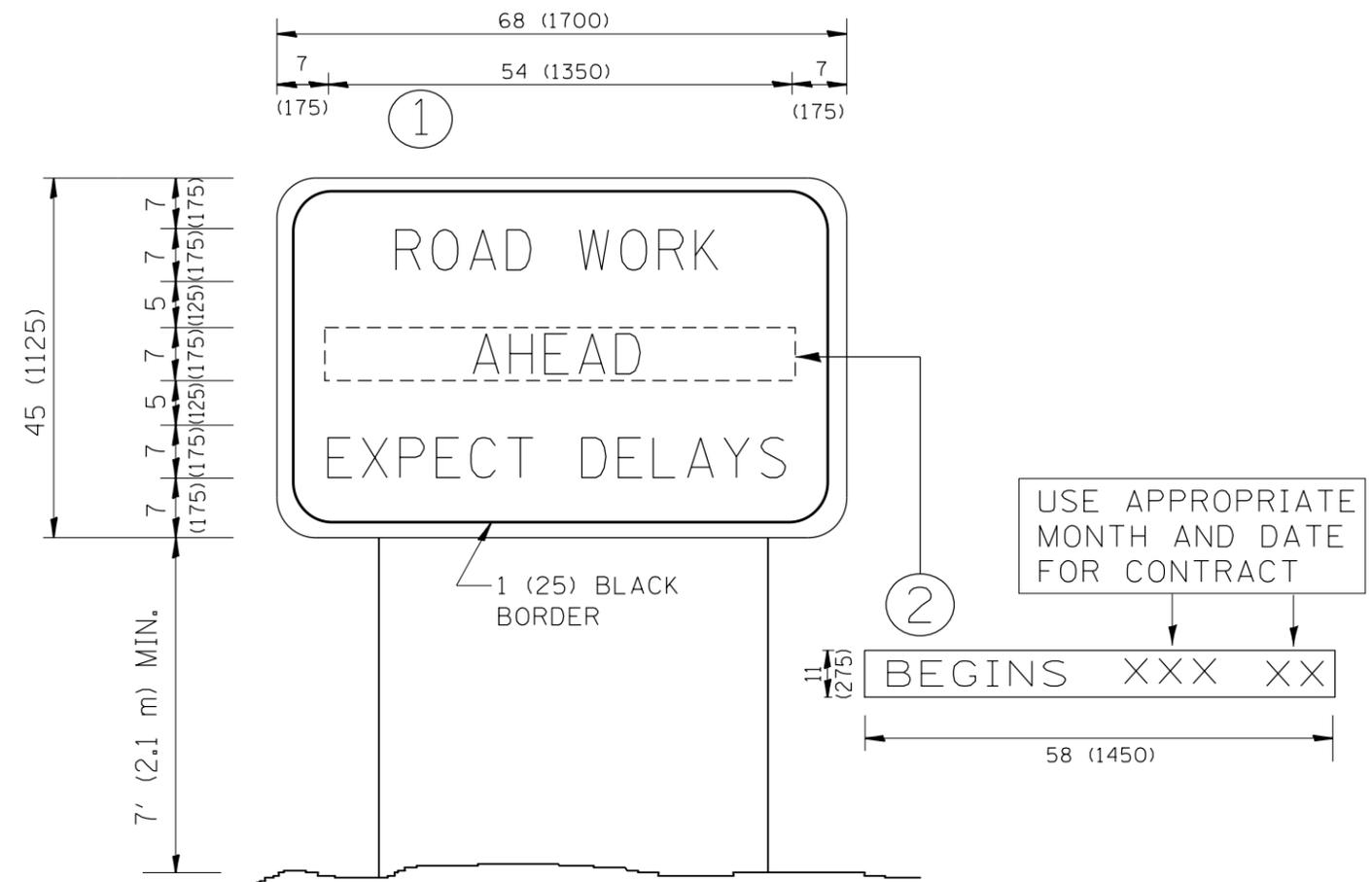
All dimensions are in inches (millimeters) unless otherwise shown.

FILE NAME =	USER NAME = PencePL	DESIGNED -	REVISED -T. RAMMACHER 03-02-98
pw:\11\084EBIDINTEG.illinois.gov\PIWIDOT\Documents\DOT Offices\District 1\Projects\PI704\Drawings\DistStd.dgn		CHECKED -	REVISED -E. GOMEZ 08-28-00
		DATE -	REVISED -E. GOMEZ 08-28-00
		DATE -	REVISED -A. SCHUETZE 09-15-16

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

SHORT TERM PAVEMENT MARKING LETTERS AND SYMBOLS			
SCALE: NONE	SHEET NO. 1 OF 1 SHEETS	STA.	TO STA.

F.A.P. RTE. 3338344	SECTION 116TS&N-2	COUNTY LAKE	TOTAL SHEETS 102	SHEET NO. 97
TC-16		CONTRACT NO. 60W92		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



NOTES:

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

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

FILE NAME =	USER NAME = PencePL	DESIGNED -	REVISED - R. MIRS 09-15-97
p:\11\084EBIDINTEG.illinois.gov\PI\DOT\Documents\DOT Offices\District 1\Projects\PI704\DRAWING\Design\DistStd.dgn		CHECKED -	REVISED - R. MIRS 12-11-97
		DATE -	REVISED - T. RAMMACHER 02-02-99
			REVISED - C. JUCIUS 01-31-07

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

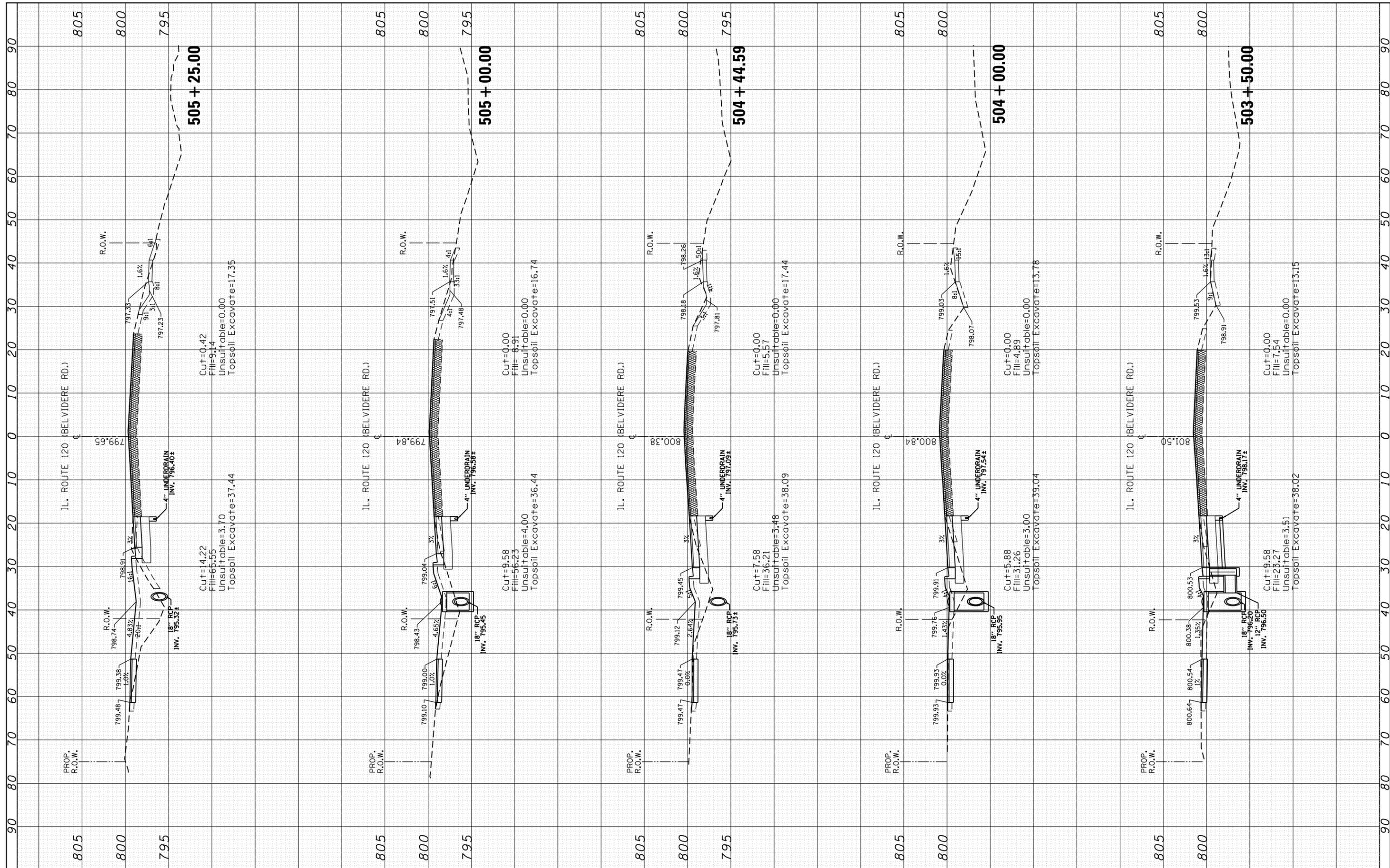
**ARTERIAL ROAD
INFORMATION SIGN**

SCALE: NONE SHEET NO. 1 OF 1 SHEETS STA. TO STA.

F.A.P. RTE. 3338344	SECTION 116TS&N-2	COUNTY LAKE	TOTAL SHEETS 102	SHEET NO. 98
TC-22		CONTRACT NO. 60W92		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

FINISH	SURVEYED	BY	DATE
SURVEY	PLOTTED		
NOTE BOOK	TEMPLATE		
AREAS	CHECKED		
NO.			

ORIGINAL	SURVEYED	BY	DATE
SURVEY	PLOTTED		
NOTE BOOK	TEMPLATE		
AREAS	CHECKED		
NO.			



FILE NAME =	USER NAME = PencePL	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	IL 120 / US 45 TS MODERNIZATION, INTERCONNECT, AND CHANNELIZATION CROSS SECTIONS	F.A.P. R.T.E. 3338344	SECTION 116TS&N-2	COUNTY LAKE	TOTAL SHEETS 102	SHEET NO. 101
CONTRACT NO. 60W92	CONTRACT NO. 60W92	CONTRACT NO. 60W92	CONTRACT NO. 60W92							
SCALE:	SHEET	OF	SHEETS			STA. 503+50.00 TO STA. 505+25.00	ILLINOIS FED. AID PROJECT			

