

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
535	118N-2	LAKE	58	1
ILLINOIS			CONTRACT NO. 60X57	

\* 58 + 4 = 62 TOTAL SHEETS

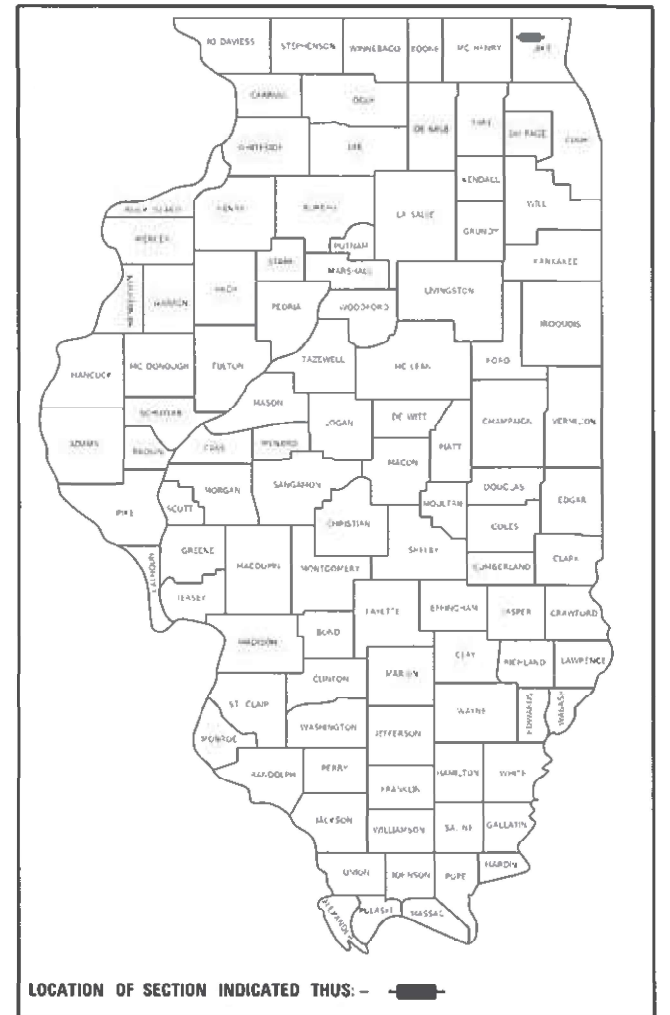
FOR INDEX OF SHEETS, SEE SHEET NO. 2

IMPROVEMENT IS LOCATED IN  
WAUCONDA AND FREEMONT  
TOWNSHIPS

PROPOSED  
HIGHWAY PLANS

FAP ROUTE 535: IL 60  
AT WILSON ROAD  
SECTION: 118N-2  
INTERSECTION RECONSTRUCTION, CULVERT EXTENSION/REPLACEMENT  
& TRAFFIC SIGNAL INSTALLATION  
PROJECT: HSIP-6TRI(158)  
LAKE COUNTY  
C-91-135-14

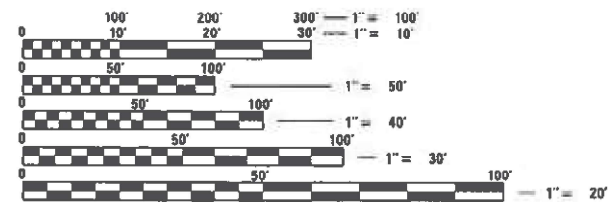
D-91-135-14



LOCATION OF SECTION INDICATED THUS: - [Symbol]

TRAFFIC DATA

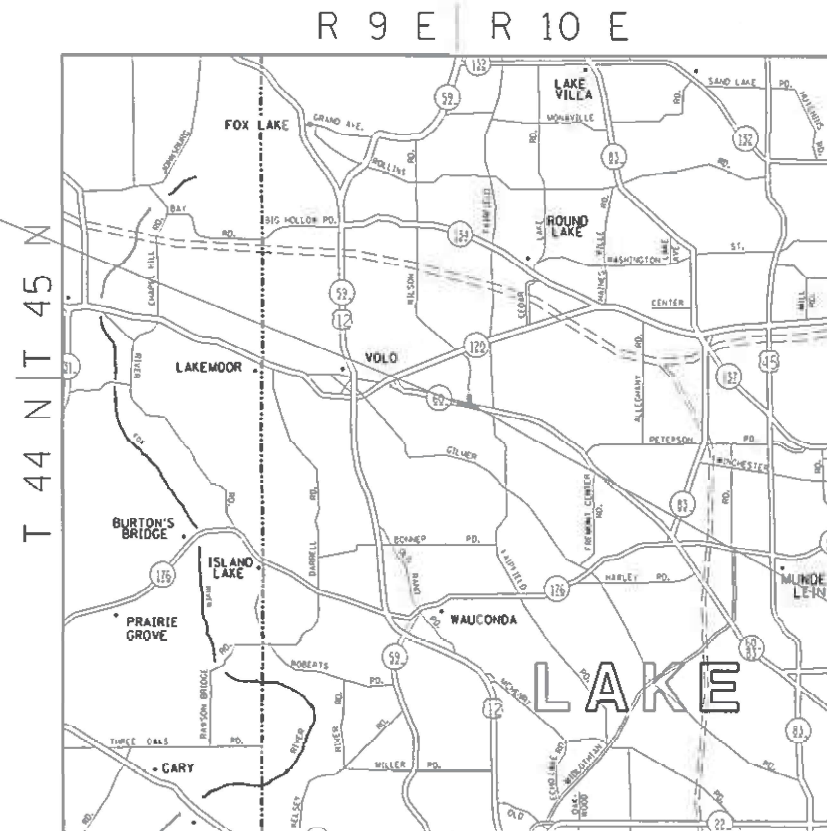
2019 ADT = 13,300 (IL-60)  
2019 ADT = 4000 (WILSON ROAD)  
POSTED SPEED LIMIT = 55 MPH (IL- 60)  
POSTED SPEED LIMIT = 35 MPH (WILSON ROAD)



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 BEGINS  
STA. 492 + 00



PROJECT ENDS  
STA. 505 + 00

PROJECT MANAGER: ALAIN MIDY (847)221-3056

WAUCONDA & FREEMONT TOWNSHIPS

GROSS AND NET LENGTH OF IMPROVEMENT = 1300 LINEAL FEET = 0.30 MILE

CONTRACT NO. 60X57

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

SUBMITTED MAY 4 2021  
Jose Pires (CRB)  
REGIONAL ENGINEER

June 25, 2021  
Joe A. Etk  
ENGINEER OF DESIGN AND ENVIRONMENT

June 25, 2021  
James M. Gu  
DIRECTOR OF HIGHWAYS PROJECT IMPLEMENTATION 13

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OF THE STATE OF ILLINOIS

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51	ARTERIAL ROAD INFORMATION SIGN (TC-22)
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*	40A & 40B SHEETS ADDED HERE
**	45A SHEETS ADDED HERE

STANDARD NO.	DESCRIPTION
000001-08	STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS
280001-07	TEMPORARY EROSION CONTROL SYSTEMS
442201-03	CLASS C AND D PATCHES
542301-03	PRECAST REINFORCED CONCRETE FLARED END SECTION
542311-07	TRAVERSABLE PIPE GRATE FOR CONCRETE END SECTIONS
701001-02	OFF-ROAD OPERATIONS 2L, 2W, MORE THAN 15'
701201-05	LANE CLOSURE, 2L, 2W, DAY ONLY, FOR SPEEDS > 45 MPH
701301-04	LANE CLOSURE, 2L, 2W, SHORT TIME OPERATIONS
701311-03	LANE CLOSURE, 2L, 2W SLOW, MOVING OPERATIONS- DAY ONLY,
701326-04	LANE CLOSURE, 2L, 2W, PAVEMENT WIDENING FOR SPEEDS > 45 MPH
701701-10	URBAN LANE CLOSURE, MULTILANE INTERSECTION
701901-08	TRAFFIC CONTROL DEVICES
704001-08	TEMPORARY CONCRETE BARRIER
720001-01	SIGN PANEL MOUNTING DETAIL
720006-04	SIGN PANEL ERECTION DETAILS
725001-01	OBJECT AND TERMINAL MARKERS
780001-05	TYPICAL PAVEMENT MARKINGS
782006-01	GUARDRAIL AND BARRIER WALL REFLECTOR MOUNTING DETAILS
805001-01	ELECTRIC SERVICE INSTALLATION DETAILS
814001-03	HANDHOLES
814006-03	DOUBLE HANDHOLES
857001-01	STANDARD PHASE DESIGNATION DIAGRAMS AND PHASE SEQUENCES
862001-01	UNINTERRUPTABLE POWER SUPPLY (UPS)
873001-02	TRAFFIC SIGNAL GROUNDING & BONDING
877001-08	STEEL MAST ARM ASSEMBLY & POLE 16' THROUGH 55'
877011-10	STEEL COMBO MAST ARM ASSEMBLY AND POLE 16' THROUGH 55'
878001-11	CONCRETE FOUNDATION DETAILS
880006-01	TRAFFIC SIGNAL MOUNTING DETAILS
886001-01	DETECTOR LOOP INSTALLATIONS
886006-01	TYPICAL LAYOUTS FOR DETECTOR LOOPS

**GENERAL NOTES**

THIS PROJECT REQUIRES A US ARMY CORPS OF ENGINEERS (USACE) 404 PERMIT THAT WILL BE SECURED BY THE DEPARTMENT. AS A CONDITION OF THIS PERMIT, THE CONTRACTOR WILL NEED TO SUBMIT AN IN-STREAM WORK PLAN TO THE DEPARTMENT FOR APPROVAL. GUIDELINES ON ACCEPTABLE IN-STREAM WORK TECHNIQUES CAN BE FOUND ON THE USACE WEBSITE. THE USACE DEFINES AND DETERMINES IN-STREAM WORK. THE COST OF ALL MATERIALS AND LABOR NECESSARY TO COMPLY WITH THE ABOVE PROVISIONS TO PREPARE AND IMPLEMENT AN IN-STREAM WORK PLAN WILL NOT BE PAID FOR SEPARATELY, BUT SHALL BE CONSIDERED AS INCLUDED IN THE UNIT BID PRICES OF THE CONTRACT AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED.

BEFORE STARTING ANY EXCAVATION, THE CONTRACTOR SHALL CALL "JULIE" AT 800-892-0123 OR 811 FOR FIELD LOCATIONS OF BURIED ELECTRIC, TELEPHONE AND GAS FACILITIES. (48 HOUR NOTIFICATION IS REQUIRED).

THE CONTRACTOR SHALL COORDINATE CONSTRUCTION ACTIVITIES WITH UTILITY COMPANIES AND WAUCONDA AND FREEMONT TOWNSHIPS

THE CONTRACTOR WILL NOT BE ALLOWED TO SET UP A YARD OR FIELD OFFICE ON STATE PROPERTY WITHOUT WRITTEN PERMISSION FROM THE DEPARTMENT

**GENERAL NOTES (CONTINUED)**

WHEN MILLED PAVEMENT IS OPEN TO TRAFFIC THE MAXIMUM GRADE DIFFERENTIAL BETWEEN PASSES OF THE MILLING MACHINE SHALL NOT EXCEED 1 1/2 INCHES (40 MM) WHERE THE SPEED LIMIT IS 45 MPH (45 KM/H) OR LESS AND 1 INCH WHERE THE SPEED LIMIT IS GREATER THAN 45 MPH (45 KM/H). WITH WRITTEN APPROVAL FROM THE ENGINEER, A MAXIMUM GRADE DIFFERENTIAL OF 3 INCHES MAY BE ALLOWED IF THE EDGE OF THE MILLING IS SLOPED A MINIMUM 1:3 (V:H).

BUTT JOINTS WILL BE INSTALLED AT THE ENDS OF ALL RESURFACING (WHERE RESURFACING MEETS EXISTING PAVEMENT), IN ACCORDANCE WITH THE "BUTT JOINT AND HOT-MIX ASPHALT TAPER DETAILS" SHEET INCLUDED IN THE PLANS, UNLESS OTHERWISE SPECIFIED.

THE RESIDENT ENGINEER SHALL CONTACT MR. WALTER CZARNY, IDOT'S AREA TRAFFIC FIELD ENGINEER, VIA EMAIL AT WALTER.CZARNY@ILLINOIS.GOV A MINIMUM OF 2 WEEKS PRIOR TO PLACEMENT OF PERMANENT PAVEMENT MARKING.

BEFORE BEGINNING ANY WORK, THE CONTRACTOR SHALL RETAIN AND RECORD FOR FUTURE REFERENCE, ALL EXISTING PAVEMENT MARKING LINES (AND RAISED REFLECTIVE PAVEMENT MARKERS) IN ORDER THAT THESE LOCATIONS CAN BE RE-ESTABLISHED FOR STRIPING. EXACT LOCATIONS OF ALL PAVEMENT MARKINGS SHALL BE AS DIRECTED BY THE ENGINEER.

IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY ALL DIMENSIONS AND CONDITIONS EXISTING IN THE FIELD PRIOR TO CONSTRUCTION AND ORDERING OF MATERIALS

THE CONTRACTOR SHALL CONTACT THE DISTRICT ONE TRAFFIC CONTROL SUPERVISOR AT (847)705-4470 A MINIMUM OF 72 HOURS IN ADVANCE OF BEGINNING WORK.

THE CONTRACTOR SHALL BE REQUIRED TO PROVIDE ACCESS TO ABUTTING PROPERTY AT ALL TIMES DURING THE CONSTRUCTION OF THIS PROJECT.

PRIOR TO EMBANKMENT PLACEMENT, ALL VEGETATION, LOOSE MATERIAL, AND UNSTABLE MATERIAL SHOULD BE REMOVED TO DEPTH ENCOUNTERED AND REPLACED WITH SUITABLE EMBANKMENT MATERIAL. ANY EMBANKMENT WIDENING ON EXISTING SLOPES SHOULD BE BENCHED IN ACCORDANCE WITH ARTICLE 205.04 OF THE STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION.

THE CONTRACTOR SHALL CHECK THE PROPOSED TRAFFIC SIGNAL EQUIPMENT LOCATIONS FOR OVERHEAD UTILITY CONFLICTS, THE CONTRACTOR SHALL COORDINATE ANY CONFLICTS WITH THE UTILITY COMPANIES AND THE RESIDENT ENGINEER BEFORE ORDERING MATERIALS.

ALL PAVEMENT PATCHING LOCATIONS WILL BE DETERMINED IN THE FIELD BY THE ENGINEER.

THE THICKNESS OF THE HMA MIXTURE SHOWN ON THE PLANS IS THE NOMINAL THICKNESS. DEVIATIONS FROM THE NOMINAL THICKNESS WILL BE PERMITTED WHEN SUCH DEVIATIONS OCCUR DUE TO IRREGULARITIES IN THE EXISTING SURFACE OR BASE ON WHICH THE HMA MIXTURE IS PLACED

ALL DROP-OFFS GREATER THAN 18 INCHES MUST BE BACKFILLED AT THE END OF EACH WORK DAY AND EXCAVATED AREA MUST BE PROTECTED WITH DEVICES PLACED AT THE DROP-OFF ELEVATION TO PRESERVE LANE WIDTH. THE REFLECTIVE AREA AND WARNING LIGHT SHALL BE RAISED TO THE ELEVATION ABOVE TRAVELING LANE REQUIRED BY STANDARD 701901.

GEOTECHNICAL FABRIC FOR GROUND STABILIZATION AND/OR AGGREGATE SUBGRADE IMPROVEMENT (CU YD) HAVE BEEN PROVIDED FOR USE AT THE LOCATIONS INDICATED FOR SOILS THAT TEND TO BE UNSTABLE AND/OR UNSUITABLE. THE ACTUAL NEED FOR REMOVAL AND REPLACEMENT WITH ABOVE ITEM WILL BE DETERMINED IN THE FIELD AT THE TIME OF CONSTRUCTION BY THE GEOTECHNICAL ENGINEER. ALL POTENTIALLY UNSTABLE SOILS SHOULD BE TESTED WITH A STATIC OR DYNAMIC CONE PENETROMETER AND TREATED IN ACCORDANCE WITH ARTICLE 301.04 OF THE SSRBC AND IDOT SUBGRADE STABILITY MANUAL. IF UNSTABLE AND/OR UNSUITABLE SOILS ARE NOT ENCOUNTERED, THEN THE QUANTITY SHALL BE DEDUCTED AND NO ADDITIONAL COMPENSATION WILL BE DUE TO THE CONTRACTOR.

ANY AGGREGATE SUBGRADE IMPROVEMENT CONTAMINATED AND/OR DAMAGED BY THE CONTRACTOR'S VEHICLES AND/OR EQUIPMENTS IS TO BE REMOVED AND REPLACED AS DIRECT BY THE ENGINEER AT CONTRACTOR EXPENSE.

REV-SEP

FILE NAME =	USER NAME = paraynoal	DESIGNED -	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>INDEX OF SHEETS, LIST OF STATE STANDARDS &amp; GENERAL NOTES FAP 535 / IL ROUTE 60 AT WILSON ROAD</b>	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
pw\planroom.dot\illinois.gov\PIDOT\Documents\IDOT Offices\District 1\Projects\P109410\Drawn\Design\P109410-Design.dgn	CHECKED -	REVISED -	535			118N-2	LAKE	57	2	
PLOT SCALE = 100.0588' / in.	DATE -	REVISED -	CONTRACT NO. 60X57							
PLOT DATE = 6/11/2021	DATE -	REVISED -	SCALE: 1"=50'							
					SHEET NO. 1 OF 1 SHEETS		STA. TO STA.		FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT	

SUMMARY OF QUANTITIES			TOTAL QUANTITIES URBAN	CONSTRUCTION TYPE CODE					SUMMARY OF QUANTITIES			TOTAL QUANTITIES URBAN	CONSTRUCTION TYPE CODE				
CODE NO	ITEM	UNIT		ROADWAY 0004 FED 90% STATE 10%	INTERCONNECT 0021 FED 90% STATE 6.3% COUNTY 3.7%	SIGNALS 0021 FED 90% STATE 10%	EVP 0021 FIRE DEPT 100%	CODE NO	ITEM	UNIT	ROADWAY 0004 FED 90% STATE 10%		INTERCONNECT 0021 FED 90% STATE 6.3% COUNTY 3.7%	SIGNALS 0021 FED 90% STATE 10%	EVP 0021 FIRE DEPT 100%		
20200100	EARTH EXCAVATION	CU YD	1770	1770				28000400	PERIMETER EROSION BARRIER	FOOT	300	300					
20100110	TREE REMOVAL (6 TO 15 UNITS DIAMETER)	UNIT	38	38													
20201200	REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL	CU YD	820	820				28000510	INLET FILTERS	EACH	10	10					
20100210	TREE REMOVAL (6 OVER 15 UNITS DIAMETER)	UNIT	136	136				28001100	TEMPORARY EROSION CONTROL BLANKET	SQ YD	7550	7550					
20800150	TRENCH BACKFILL	CU YD	19	19													
21001000	GEOTECHNICAL FABRIC FOR GROUND STABILIZATION	SO YD	475	475				30300001	AGGREGATE SUBGRADE IMPROVEMENT	CU YD	475	475					
21101505	TOPSOIL EXCAVATION AND PLACEMENT	CU YD	1592	1592				30300112	AGGREGATE SUBGRADE IMPROVEMENT 12"	SO YD	1430	1430					
25000210	SEEDING, CLASS 2A	ACRE	0.5	0.5				35501308	HOT-MIX ASPHALT BASE COURSE, 6"	SO YD	50	50					
25000400	NITROGEN FERTILIZER NUTRIENT	POUND	188	188				40600290	BITUMINOUS MATERIALS (TACK COAT)	POUND	5000	5000					
25000500	PHOSPHORUS FERTILIZER NUTRIENT	POUND	188	188				40600400	MIXTURE FOR CRACKS, JOINTS, AND FLANGEWAYS	TON	9	9					
25000600	POTASSIUM FERTILIZER NUTRIENT	POUND	188	188				40600982	HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT	SO YD	9	9					
25100630	EROSION CONTROL BLANKET	SO YD	7550	7550				40603090	HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N90	TON	1430	1430					
25200200	SUPPLEMENTAL WATERING	UNIT	151	151				40603200	POLYMERIZED HOT-MIX ASPHALT BINDER COURSE, IL-4.75, N50	TON	307	307					
28000250	TEMPORARY EROSION CONTROL SEEDING	POUND	156	156				40604060	HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N50	TON	6	6					
28000305	TEMPORARY DITCH CHECKS	FOOT	18	18				40604172	POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, MIX "E", N70	TON	730	730					
									* SPECIALTY ITEMS								

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		DATE -	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**IL ROUTE 60 AT WILSON ROAD  
SUMMARY OF QUANTITIES**

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
535	118N-2	LAKE	57	3
CONTRACT NO. 60X57			REV-SEP	
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

SUMMARY OF QUANTITIES			TOTAL QUANTITIES URBAN	CONSTRUCTION TYPE CODE					SUMMARY OF QUANTITIES			TOTAL QUANTITIES URBAN	CONSTRUCTION TYPE CODE				
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44000159	HOT-MIX ASPHALT SURFACE REMOVAL, 2 1/2"	SO YD	6000	6000				542A0241	PIPE CULVERTS, CLASS A, TYPE 1 36"	FOOT	29	29					
44201803	CLASS D PATCHES, TYPE II, 13 INCH	SO YD	20	20				550A0070	STORM SEWERS, CLASS A, TYPE 1, 15"	FOOT	200	200					
44201807	CLASS D PATCHES, TYPE III, 13 INCH	SO YD	25	25				60500050	REMOVING CATCH BASINS	EACH	2	2					
44201809	CLASS D PATCHES, TYPE IV, 13 INCH	SO YD	40	40				* 63000003	STEEL PLATE BEAM GUARDRAIL, TYPE A, 9 FOOT POSTS	FOOT	1870	1870					
44201914	CLASS D PATCHES, TYPE II, 22 INCH	SO YD	20	20				* 63100167	TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT	EACH	4	4					
48101620	AGGREGATE SHOULDERS, TYPE B 10"	SO YD	930	930				63200310	GUARDRAIL REMOVAL	FOOT	310	310					
48203029	HOT-MIX ASPHALT SHOULDERS, 8"	SO YD	1920	1920				64300350	IMPACT ATTENUATORS (FULLY REDIRECTIVE, WIDE), TEST LEVEL 2	EACH	4	4					
50105220	PIPE CULVERT REMOVAL	FOOT	220	220				* 66900530	SOIL DISPOSAL ANALYSIS	EACH	2	2					
50800105	REINFORCEMENT BARS	POUND	112	112				* 66901001	REGULATED SUBSTANCES PRE-CONSTRUCTION PLAN	LSUM	1	1					
54002020	EXPANSION BOLTS 3/4 INCH	EACH	32	32				* 66901003	REGULATED SUBSTANCES FINAL CONSTRUCTION REPORT	LSUM	1	1					
54213660	PRECAST REINFORCED CONCRETE FLARED END SECTIONS 15"	EACH	8	8				* 66901006	REGULATED SUBSTANCES MONITORING	CAL DA	15	15					
54213681	PRECAST REINFORCED CONCRETE FLARED END SECTIONS 36"	EACH	4	4				67000400	ENGINEER'S FIELD OFFICE, TYPE A	CAL MO	9	9					
54248510	CONCRETE COLLAR	CU YD	2.4	2.4				67100100	MOBILIZATION	L SUM	1	1					
542A0220	PIPE CULVERTS, CLASS A, TYPE 1 15"	FOOT	149	149				70103815	TRAFFIC CONTROL SURVEILLANCE	CAL DA	30	30					
								* SPECIALTY ITEMS									

REV-SEP

SUMMARY OF QUANTITIES			TOTAL QUANTITIES URBAN	CONSTRUCTION TYPE CODE					SUMMARY OF QUANTITIES			TOTAL QUANTITIES URBAN	CONSTRUCTION TYPE CODE				
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70300100	SHORT TERM PAVEMENT MARKING	FOOT	4200	4200				* 78000100	THERMOPLASTIC PAVEMENT MARKING - LETTERS AND SYMBOLS	SO FT	72.6	72.6					
70300150	SHORT TERM PAVEMENT MARKING REMOVAL	SO FT	1400	1400													
70300210	TEMPORARY PAVEMENT MARKING LETTERS AND SYMBOLS	SO FT	72.6	72.6				* 78000200	THERMOPLASTIC PAVEMENT MARKING - LINE 4"	FOOT	7700	7700					
70300220	TEMPORARY PAVEMENT MARKING - LINE 4"	FOOT	7700	7700				* 78000400	THERMOPLASTIC PAVEMENT MARKING - LINE 6"	FOOT	700	700					
70300240	TEMPORARY PAVEMENT MARKING - LINE 6"	FOOT	700	700				* 78000600	THERMOPLASTIC PAVEMENT MARKING - LINE 12"	FOOT	150	150					
70300260	TEMPORARY PAVEMENT MARKING - LINE 12"	FOOT	150	150				* 78000650	THERMOPLASTIC PAVEMENT MARKING - LINE 24"	FOOT	100	100					
70300280	TEMPORARY PAVEMENT MARKING - LINE 24"	FOOT	100	100													
70300520	PAVEMENT MARKING TAPE, TYPE III 4"	FOOT	1050	1050				* 78100100	RAISED REFLECTIVE PAVEMENT MARKER	EACH	30	30					
70300904	PAVEMENT MARKING TAPE, TYPE IV 4"	FOOT	5500	5500				* 78200005	GUARDRAIL REFLECTORS, TYPE A	EACH	30	30					
70400100	TEMPORARY CONCRETE BARRIER	FOOT	1160	1160				* 78200011	BARRIER WALL REFLECTORS, TYPE C	EACH	180	180					
70400200	RELOCATE TEMPORARY CONCRETE BARRIER	FOOT	1130	1130				78300200	RAISED REFLECTIVE PAVEMENT MARKER REMOVAL	EACH	18	18					
70600320	IMPACT ATTENUATORS, RELOCATE (FULLY REDIRECTIVE), TEST LEVEL 2	EACH	2	2				* 81028200	UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA.	FOOT	2841		604	2237			
* 72000100	SIGN PANEL - TYPE 1	SO FT	70	49	21			* 81028220	UNDERGROUND CONDUIT, GALVANIZED STEEL, 3" DIA.	FOOT	104		104				
* 72501000	TERMINAL MARKER - DIRECT APPLIED	EACH	3	3													
									* SPECIALTY ITEMS								

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		CHECKED -	REVISED -
		DATE -	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**IL ROUTE 60 AT WILSON ROAD  
SUMMARY OF QUANTITIES**

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
535	118N-2	LAKE	57	5
FED. ROAD DIST. NO. 1 (ILLINOIS) FED. AID PROJECT			CONTRACT NO. 60X57	

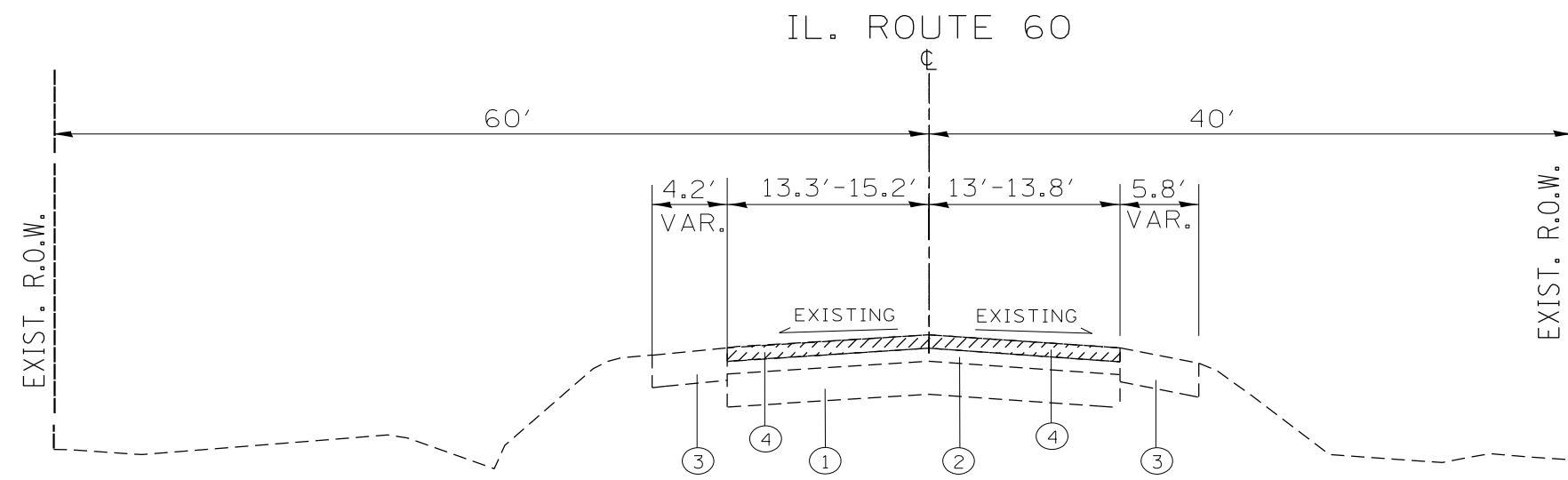
REV-SEP

SUMMARY OF QUANTITIES			TOTAL QUANTITIES URBAN	CONSTRUCTION TYPE CODE					SUMMARY OF QUANTITIES			TOTAL QUANTITIES URBAN	CONSTRUCTION TYPE CODE				
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* 81028240	UNDERGROUND CONDUIT, GALVANIZED STEEL, 4" DIA.	FOOT	194	194				* 87502500	TRAFFIC SIGNAL POST, GALVANIZED STEEL 16 FT.	EACH	2	2					
* 81400200	HEAVY-DUTY HANDHOLE	EACH	8	5	3			* 87700160	STEEL MAST ARM ASSEMBLY AND POLE, 24 FT.	EACH	2	2					
* 81400300	DOUBLE HANDHOLE	EACH	1	1				* 87702960	STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 46 FT.	EACH	1	1					
* 85000200	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1		1			* 87800100	CONCRETE FOUNDATION, TYPE A	FOOT	12	12					
* 87300925	ELECTRIC CABLE IN CONDUIT, TRACER, NO. 14 1C	FOOT	2801		2801			* 87800150	CONCRETE FOUNDATION, TYPE C	FOOT	4	4					
* 87301225	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	256	256				* 87800400	CONCRETE FOUNDATION, TYPE E 30-INCH DIAMETER	FOOT	20	20					
* 87301245	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	FOOT	1164	1164				* 87800415	CONCRETE FOUNDATION, TYPE E 36-INCH DIAMETER	FOOT	13	13					
* 87301255	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C	FOOT	540	540				* 87900200	DRILL EXISTING HANDHOLE	EACH	1		1				
* 87301305	ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1 PAIR	FOOT	842	842				* 88030020	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST-ARM MOUNTED	EACH	4	4					
* 87301805	ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2 C	FOOT	30	30				* 88030050	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED	EACH	4	4					
* 87301900	ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C	FOOT	408	408				* 88030100	SIGNAL HEAD, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED	EACH	2	2					
* SPECIALTY ITEMS																	

REV-SEP

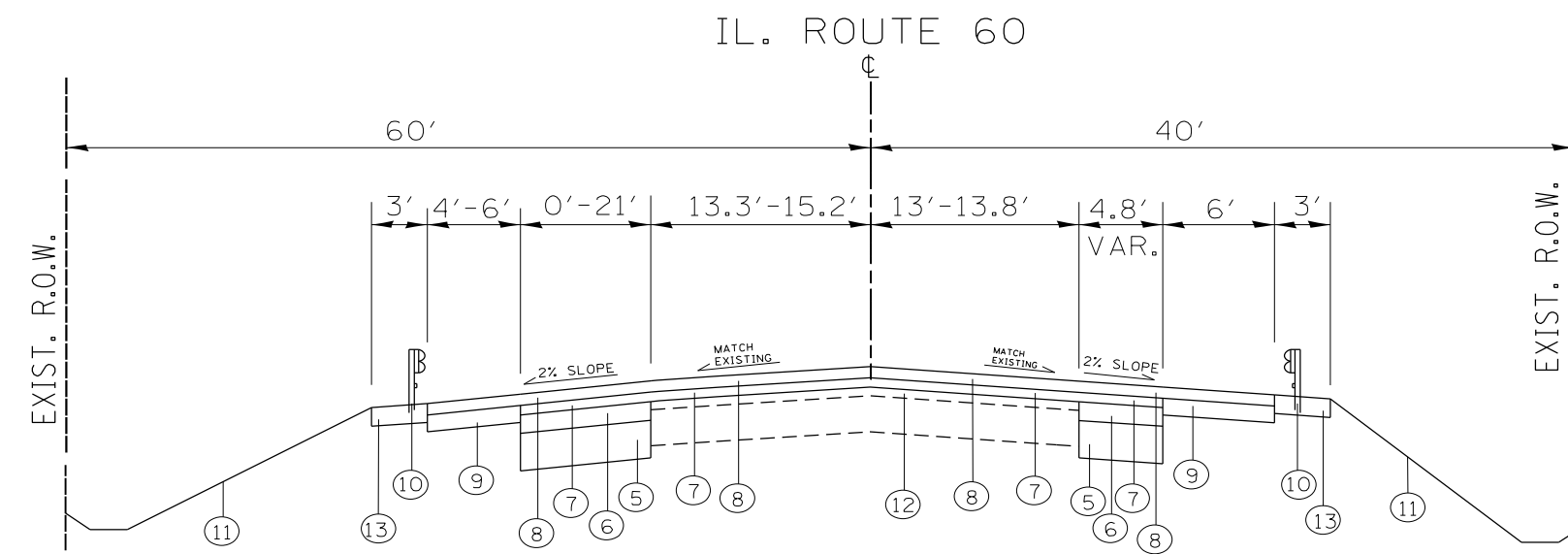
SUMMARY OF QUANTITIES				CONSTRUCTION TYPE CODE					SUMMARY OF QUANTITIES				CONSTRUCTION TYPE CODE						
CODE NO	ITEM	UNIT	TOTAL QUANTITIES URBAN	ROADWAY 0004 FED 90% STATE 10%	INTERCONNECT 0021 FED 90% STATE 6.3% COUNTY 3.7%	SIGNALS 0021 FED 90% STATE 10%	EVP 0021 FIRE DEPT 100%			CODE NO	ITEM	UNIT	TOTAL QUANTITIES URBAN	ROADWAY 0004 FED 90% STATE 10%	INTERCONNECT 0021 FED 90% STATE 6.3% COUNTY 3.7%	SIGNALS 0021 FED 90% STATE 10%	EVP 0021 FIRE DEPT 100%		
* 88030110	SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST-ARM MOUNTED	EACH	2		2					* X1400219	SPLICE FIBER IN CABINET	EACH	1			1			
* 88200410	TRAFFIC SIGNAL BACKPLATE, LOUVERED, FORMED PLASTIC	EACH	6		6					X2501800	SEEDING, CLASS 4 (MODIFIED)	ACRE	1.25	1.25					
* 88500100	INDUCTIVE LOOP DETECTOR	EACH	3		3					X2502024	SEEDING, CLASS 4B (MODIFIED)	ACRE	1.25	1.25					
* 88600100	DETECTOR LOOP, TYPE I	FOOT	176		176					X7010216	TRAFFIC CONTROL AND PROTECTION, (SPECIAL)	L SUM	1	1					
* 88700200	LIGHT DETECTOR	EACH	2				2			X7030005	TEMPORARY PAVEMENT MARKING REMOVAL	SO FT	3340	3340					
* 88700300	LIGHT DETECTOR AMPLIFIER	EACH	1				1			* X8620200	UNINTERRUPTABLE POWER SUPPLY, SPECIAL	EACH	1		1				
* X0324085	EMERGENCY VEHICLE PRIORITY SYSTEM LINE SENSOR CABLE, NO. 20 3/C	FOOT	256				256			* X8710024	FIBER OPTIC CABLE IN CONDUIT, NO. 62.5/125, MM12F SM24F	FOOT	2827			2827			
* X1400081	FULL-ACTUATED CONTROLLER AND TYPE SUPER P CABINET (SPECIAL)	EACH	1		1					Z0013798	CONSTRUCTION LAYOUT	L SUM	1	1					
* X1400102	OUTDOOR RATED NETWORK CABLE	FOOT	181		181					Z0028415	GEOTECHNICAL REINFORCEMENT	SO YD	475	475					
* X1400150	SERVICE INSTALLATION, GROUND MOUNTED, METERED	EACH	1		1					Z0030850	TEMPORARY INFORMATION SIGNING	SO FT	77.1	77.1					
* X1400201	RADAR VEHICLE DETECTION SYSTEM, SINGLE APPROACH, STOP BAR	EACH	1		1					* Z0033046	RE-OPTIMIZE TRAFFIC SIGNAL SYSTEM LEVEL 2	EACH	1			1			
* X1400215	REMOTE CONTROLLED VIDEO SYSTEM	EACH	1		1					Ø Z0076600	TRAINEES	HOURS	500	500					
* X1400217	TERMINATE FIBER IN CABINET	EACH	24			24				Ø Z0076604	TRAINEES-TRAINING PROGRAM GRADUATE	HOURS	500	500					
										* SPECIALTY ITEMS									

Ø 0042 REV-SEP



EXISTING TYPICAL CROSS SECTION  
ILLINOIS ROUTE 60  
(STA. 492+00 TO STA. 505+00)

- LEGEND**
- ① EXISTING P.C.C. PAVEMENT, ± 9"
  - ② EXISTING HMA SURFACE COURSE, ± 13"
  - ③ EXISTING AGGREGATE SHOULDER, TYPE B, 6"
  - ④ PROPOSED HMA SURFACE REMOVAL, 2 1/2"
  - ⑤ PROPOSED AGGREGATE SUBGRADE IMPROVEMENT, 12"
  - ⑥ PROPOSED HMA BINDER COURSE, IL-19, N90, 7 3/4"
  - ⑦ PROPOSED POLYMERIZED HMA BINDER COURSE, N50, IL 4.75 3/4"
  - ⑧ PROPOSED POLYMERIZED HMA SURFACE COURSE, (IL 9.5 mm), MIX "E", N70, 1 3/4"
  - ⑨ PROPOSED HMA SHOULDER, 8" (SURFACE AND BINDER)
  - ⑩ PROPOSED GUARDRAIL (SEE PLAN SHEET)
  - ⑪ PROPOSED TOPSOIL, 6"
  - ⑫ EXISTING HMA AFTER REMOVAL, ± 11"
  - ⑬ PROPOSED AGGREGATE SHOULDER, TYPE B, 10"



PROPOSED TYPICAL CROSS SECTION  
ILLINOIS ROUTE 60  
(STA. 492+00 TO STA. 505+00)

HOT-MIX ASPHALT MIXTURE REQUIREMENTS		
MIXTURE TYPE	AIR VOIDS (%) @des	QUALITY MANAGEMENT PROGRAM (QMP)
<b>PAVEMENT WIDENING</b>		
POLYMERIZED HMA SURFACE COURSE, MIX "E", N70 (IL 9.5 mm), 1 3/4"	4% AT 70 GYR.	QC/OA
POLYMERIZED HMA BINDER COURSE, IL-4.75, N50, 3/4"	3.5% AT 50 GYR.	QC/OA
HMA BINDER COURSE, IL-19, N90, 7 3/4"	4% AT 90 GYR.	QC/OA
<b>PAVEMENT RESURFACING</b>		
POLYMERIZED HMA SURFACE COURSE, MIX "E", N70 (IL 9.5 mm), 1 3/4"	4% AT 70 GYR.	QC/OA
POLYMERIZED HMA BINDER COURSE, IL-4.75, N50, 3/4"	3.5% AT 50 GYR.	QC/OA
<b>PATCHING</b>		
CLASS D PATCH (HMA BINDER, IL-19.0 mm)	4% AT 70 GYR.	QC/OA
<b>HMA SHOULDER, 8"</b>		
POLYMERIZED HMA SURFACE COURSE, MIX "E", N70 (IL 9.5 mm), 1 3/4"	4% AT 70 GYR.	QC/OA
HMA BINDER COURSE, IL-19, N90, 6 1/4"	4% AT 90 GYR.	QC/OA
<b>HMA DRIVEWAYS</b>		
HMA SURFACE COURSE, MIX "D", N50 (IL 9.5 mm), 2"	4% AT 50 GYR.	QC/OA
HMA BASE COURSE, (HMA BINDER IL-19 mm), 6"	4% AT 50 GYR.	QC/OA
<b>TEMPORARY PAVEMENT (VARIABLE DEPTH)</b>		
HMA SURFACE COURSE, MIX "D", N70 (IL 9.5 mm); VARIABLE DEPTH	4% AT 70 GYR.	QC/OA
QMP DESIGNATION: QUALITY CONTROL/QUALITY ASSURANCE (QC/OA); QUALITY CONTROL FOR PERFORMANCE (QCP) PAY FOR PERFORMANCE (PFP)		

**NOTES:**

THE UNIT WEIGHT USED TO CALCULATE ALL HMA SURFACE COURSE MIXTURES 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 SPECIAL PROVISIONS."

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

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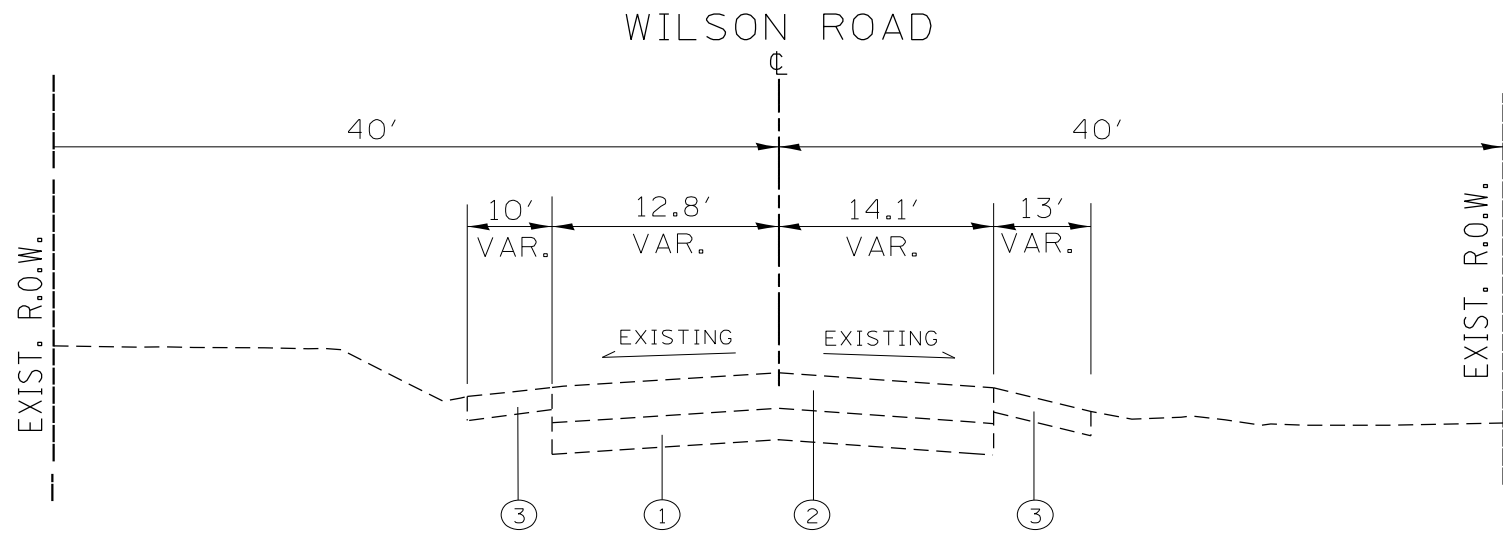
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**TYPICAL SECTIONS  
IL ROUTE 60 AT WILSON ROAD**

SCALE: N/A SHEET NO. \_\_\_ OF \_\_\_ SHEETS STA. \_\_\_\_\_ TO STA. \_\_\_\_\_

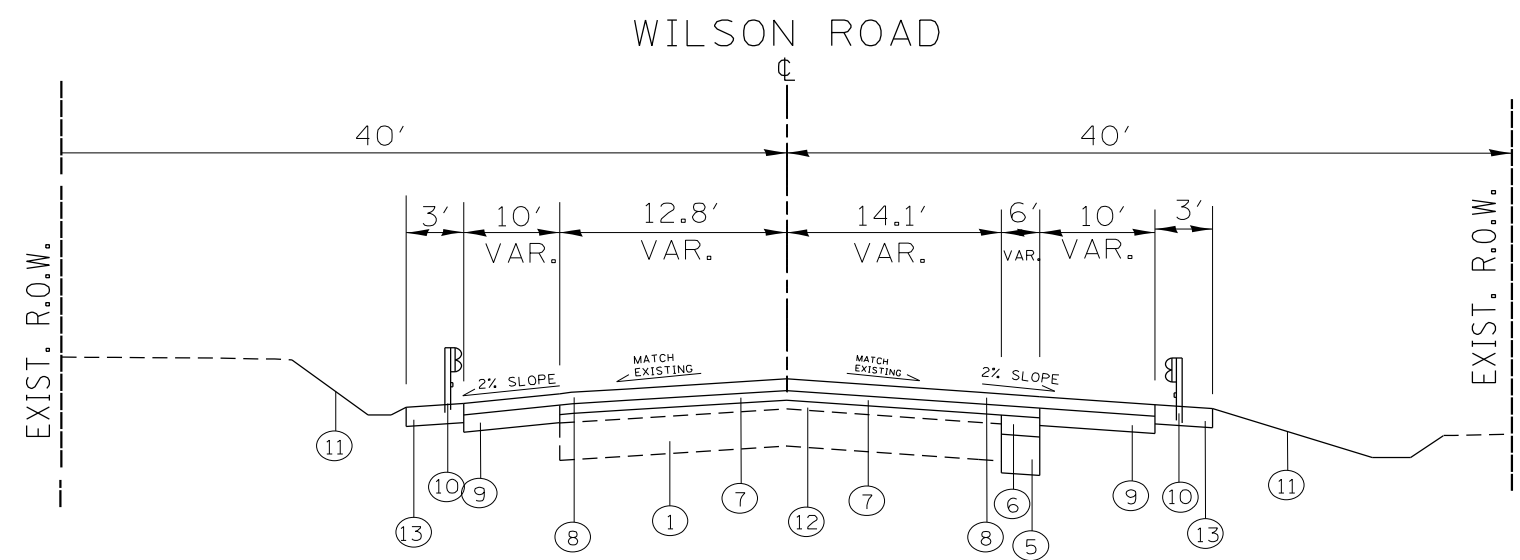
F.A.P. RTE.:	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
535	118N-2	LAKE	57	8
CONTRACT NO. 60X57				
ILLINOIS FED. AID PROJECT				





EXISTING TYPICAL CROSS SECTION  
WILSON ROAD  
(STA. 200+00 TO STA. 201+50)

- LEGEND**
- ① EXISTING P.C.C. PAVEMENT, ± 9"
  - ② EXISTING HMA SURFACE COURSE, ± 13"
  - ③ EXISTING AGGREGATE SHOULDER, TYPE B, 6"
  - ④ PROPOSED HMA SURFACE REMOVAL, 2 1/2"
  - ⑤ PROPOSED AGGREGATE SUBGRADE IMPROVEMENT, 12"
  - ⑥ PROPOSED HMA BINDER COURSE, IL-19, N90, 7 3/4"
  - ⑦ PROPOSED POLYMERIZED HMA BINDER COURSE, N50, IL 4.75 3/4"
  - ⑧ PROPOSED POLYMERIZED HMA SURFACE COURSE, (IL 9.5 mm), MIX "E", N70, 1 3/4"
  - ⑨ PROPOSED HMA SHOULDER, 8" (SURFACE AND BINDER)
  - ⑩ PROPOSED GUARDRAIL (SEE PLAN SHEET)
  - ⑪ PROPOSED TOPSOIL, 6"
  - ⑫ EXISTING HMA AFTER REMOVAL, ± 11"
  - ⑬ PROPOSED AGGREGATE SHOULDER, TYPE B, 10"



PROPOSED TYPICAL CROSS SECTION  
WILSON ROAD  
(STA. 200+00 TO STA. 201+50)

## EARTHWORK SCHEDULE (IL 60)

IL RTE 60 AT WILSON ROAD	EARTH EXCAVATION (CU. YD.)	TOP SOIL EXCAVATION (CU. YD.)	EXCAVATION USED AS EMBANKMENT (SHRINKAGE 15%) (CU. YD.)	EXCAVATION USED AS TOP SOIL EXCAVATION (SHRINKAGE 15%) (CU. YD.)	EMBANKMENT (CU. YD.)	TOP SOIL PLACEMENT (CU. YD.)	EARTH WORK BALANCE SURPLUS (+) OR SHORTAGE (-) (CU. YD.)	TOP SOIL BALANCE SURPLUS (+) OR SHORTAGE (-) (CU. YD.)
	1646	1530	1399	1301	1220	482	179	819
<b>TOTAL</b>	1646	1530	1399	1301	1220	482	179	819

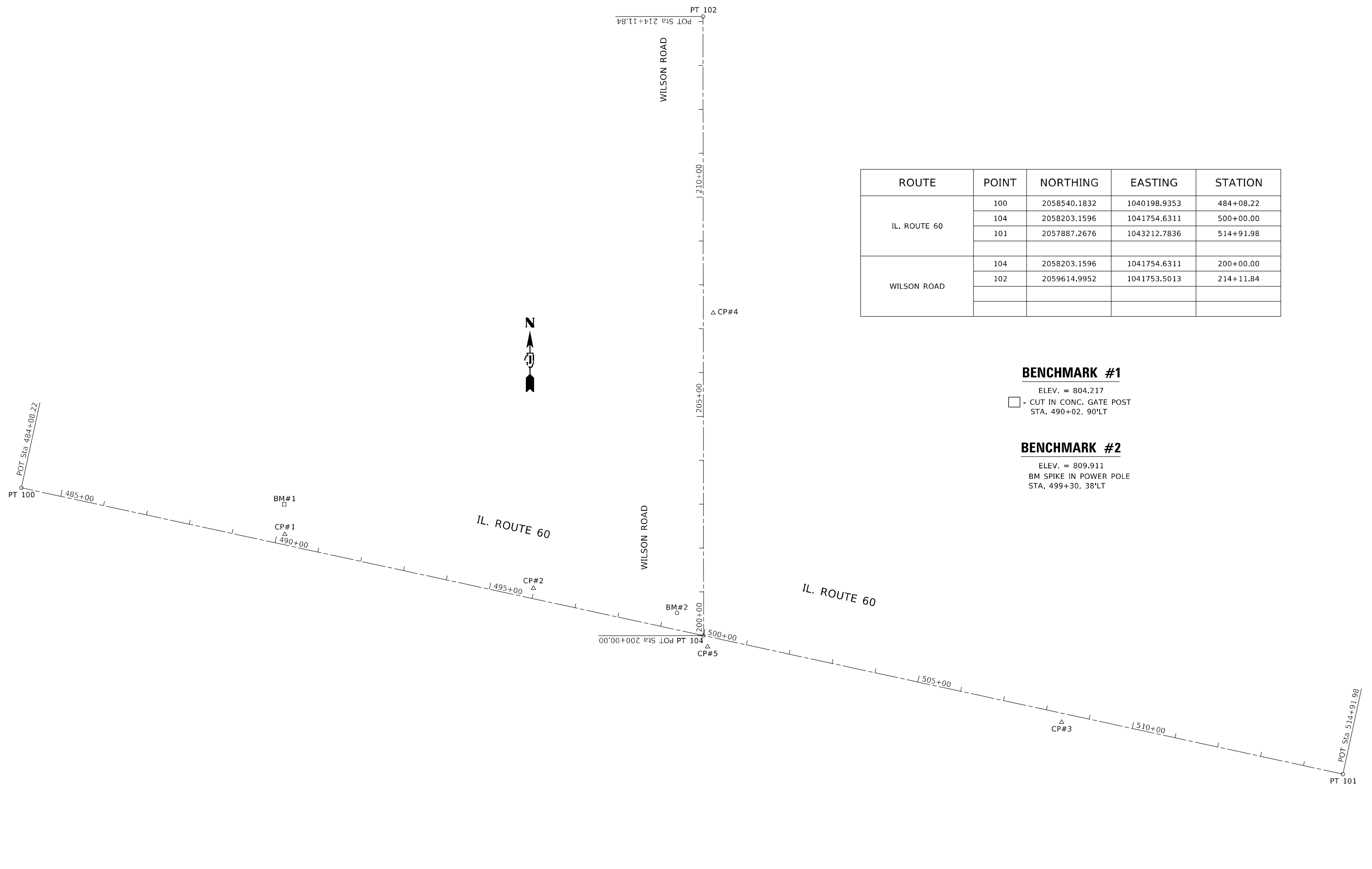
## EARTHWORK SCHEDULE (WILSON RD.)

IL RTE 60 AT WILSON ROAD	EARTH EXCAVATION (CU. YD.)	TOP SOIL EXCAVATION (CU. YD.)	EXCAVATION USED AS EMBANKMENT (SHRINKAGE 15%) (CU. YD.)	EXCAVATION USED AS TOP SOIL EXCAVATION (SHRINKAGE 15%) (CU. YD.)	EMBANKMENT (CU. YD.)	TOP SOIL PLACEMENT (CU. YD.)	EARTH WORK BALANCE SURPLUS (+) OR SHORTAGE (-) (CU. YD.)	TOP SOIL BALANCE SURPLUS (+) OR SHORTAGE (-) (CU. YD.)
	124	62	105	53	51	53	55	0
<b>TOTAL</b>	124	62	105	53	51	53	55	0

## TREE REMOVAL

STATION	OFFSET	TREE REMOVAL (6 TO 15 UNITS DIAMETER) (UNIT)	TREE REMOVAL (OVER 15 UNITS DIAMETER) (UNIT)
494+60	33	14	
494+92	35		24
495+05	38		18
496+51	28		42
497+11	35	12	
498+04	34		24
499+31	33		18
499+57	38	12	

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ROUTE	POINT	NORTHING	EASTING	STATION
IL. ROUTE 60	100	2058540.1832	1040198.9353	484+08.22
	104	2058203.1596	1041754.6311	500+00.00
	101	2057887.2676	1043212.7836	514+91.98
WILSON ROAD	104	2058203.1596	1041754.6311	200+00.00
	102	2059614.9952	1041753.5013	214+11.84

**BENCHMARK #1**

ELEV. = 804.217  
 □ - CUT IN CONC. GATE POST  
 STA. 490+02, 90'LT

**BENCHMARK #2**

ELEV. = 809.911  
 BM SPIKE IN POWER POLE  
 STA. 499+30, 38'LT

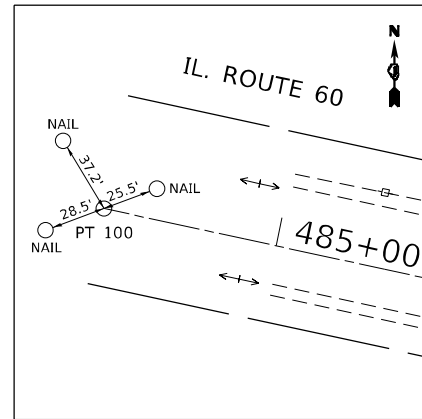
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PLOT DATE = 5/12/2021	CHECKED -	REVISED -
	DATE -	REVISED -

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**ALIGNMENT, TIES AND BENCHMARKS  
 IL. ROUTE 60 AT WILSON ROAD**

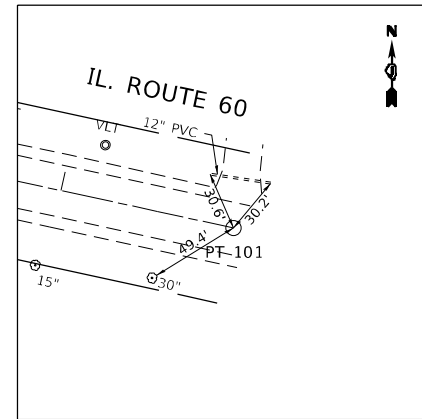
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F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
535	118N-2	LAKE	57	11
CONTRACT NO. 60X57				
ILLINOIS FED. AID PROJECT				



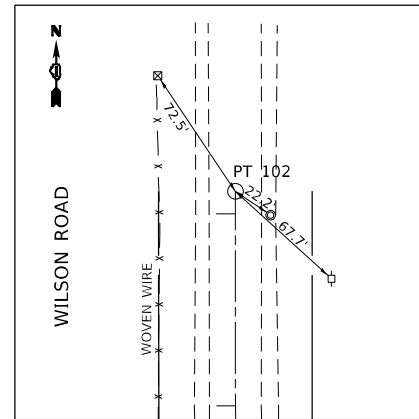
**POINT 100**

STA. 484+08.22  
 N= 2058540.1832  
 E= 1040198.9353  
 ELEV.= 816.235



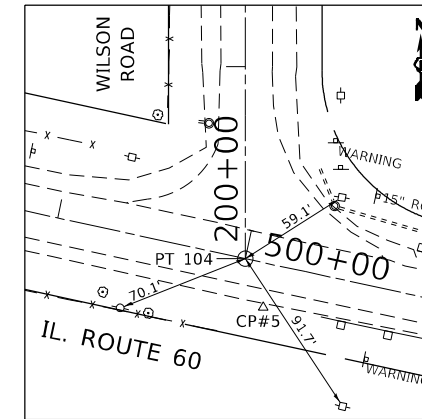
**POINT 101**

STA. 514+91.98  
 N= 2057887.2676  
 E= 1043212.7836  
 ELEV.= 800.612



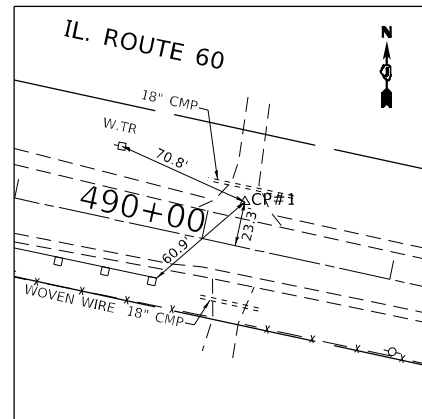
**POINT 102**

STA. 214+11.84  
 N= 2059614.9952  
 E= 1041753.5013  
 ELEV.= 800.653



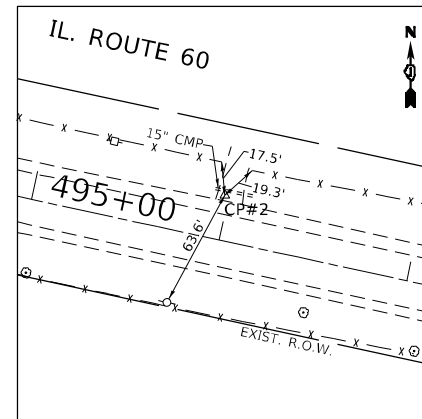
**POINT 104**

STA. 200+00.00  
 N= 2058203.1596  
 E= 1041754.6311  
 ELEV.= 800.654



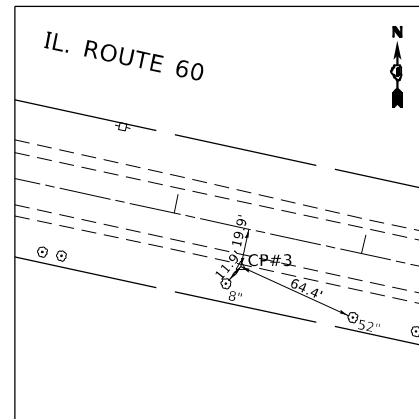
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 ELEV.= 803.635



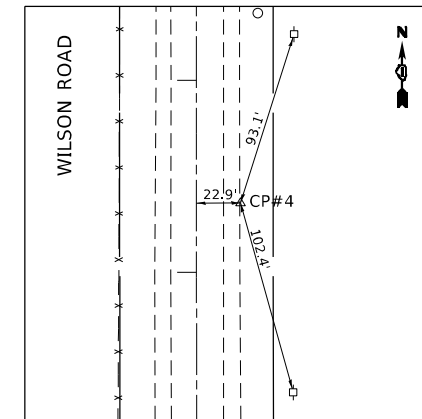
**CONTROL POINT 2**

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 ELEV.= 802.121



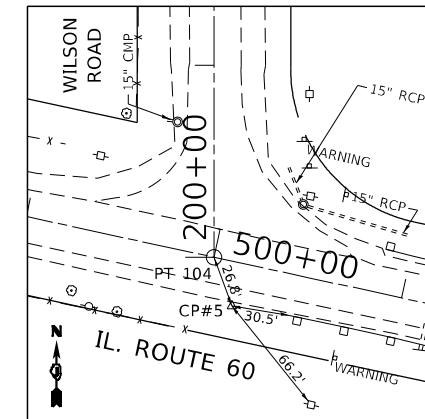
**CONTROL POINT 3**

STA. 508+39.87  
 N= 2058005.8713  
 E= 1042571.2378  
 ELEV.= 807.775



**CONTROL POINT 4**

STA. 207+35.97  
 N= 2058939.1506  
 E= 1041776.9061  
 ELEV.= 801.764



**CONTROL POINT 5**

STA. 500+14.36  
 N= 2058177.7806  
 E= 1041763.8230  
 ELEV.= 806.741

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USER NAME = guillaumefp	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 200,0000' / in.	CHECKED -	REVISED -
PLOT DATE = 5/12/2021	DATE -	REVISED -

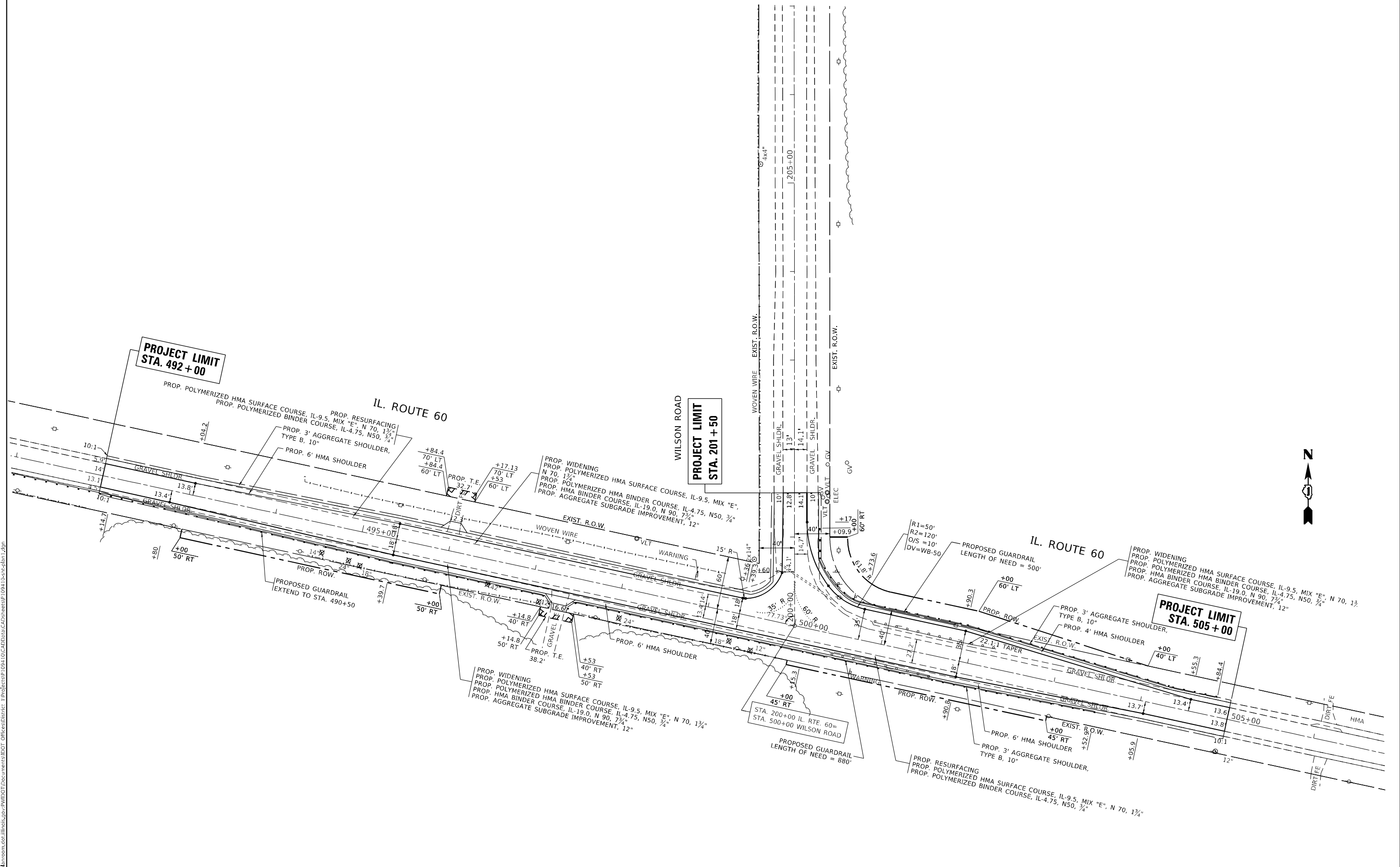
**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**ALIGNMENT, TIES AND BENCHMARKS  
 IL. ROUTE 60 AT WILSON ROAD**

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
535	118N-2	LAKE	57	12
CONTRACT NO. 60X57				
ILLINOIS FED. AID PROJECT				

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**PROJECT LIMIT**  
STA. 492+00

**PROJECT LIMIT**  
STA. 201+50

**PROJECT LIMIT**  
STA. 505+00

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

**EXISTING AND PROPOSED ROADWAY PLAN**  
**IL. ROUTE 60 (AT WILSON ROAD)**

USER NAME = bauercl	DESIGNED -	REVISED -
DRAWN -	REVISOR -	REVISION -
PLOT SCALE = 100,000' / in.	CHECKED -	REVISED -
PLOT DATE = 6/15/2021	DATE -	REVISED -

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
535	118N-2	LAKE	57	13
CONTRACT NO. 60X57				
ILLINOIS FED. AID PROJECT				

MAINTENANCE OF TRAFFIC GENERAL NOTES

ALL OF THE TRAFFIC CONTROL DEVICES SHALL BE IN PLACE BEFORE CONSTRUCTION IS STARTED. ALL TEMPORARY PAVEMENT MARKINGS & TRAFFIC CONTROL DEVICES SHALL BE IN PLACE AT THE BEGINNING OF EACH STAGE, AND SHALL BE MAINTAINED FOR THE DURATION OF THAT STAGE UNLESS OTHERWISE DIRECTED BY THE ENGINEER.

A MINIMUM OF TWO (2) ELEVEN FOOT (11') LANES, ONE IN EACH DIRECTION, SHALL BE KEPT OPEN TO TRAFFIC ON IL ROUTE 60 AND ON WILSON ROAD.

ALL PAVEMENT MARKINGS CONFLICTING WITH STAGED TRAFFIC PATTERNS SHALL BE REMOVED. TYPE III MARKING TAPE SHALL BE USED ON THE FINAL WEARING SURFACE OR ON THE EXISTING PAVEMENT TO REMAIN WHEN THE TEMPORARY PAVEMENT MARKING WILL CONFLICT WITH THE PERMANENT PAVEMENT MARKING SUCH AS ON TAPERS OR LANE SHIFTS. PAVEMENT MARKING PAINT SHALL BE USED ON ALL SURFACES TO BE REMOVED OR COVERED WITH SURFACE COURSE.

ACCESS SHALL BE MAINTAINED TO ALL PROPERTIES DURING CONSTRUCTION OPERATIONS WITH THE USE OF AGGREGATE FOR TEMPORARY ACCESS AND/OR BY CONSTRUCTING ONE HALF OF PROPOSED DRIVEWAYS AT A TIME.

PROVIDE TEMPORARY HMA RAMP WEDGE TO TRANSITION THE DIFFERENTIAL ELEVATIONS CAUSED BY STAGED CONSTRUCTION BETWEEN THE NEW CONSTRUCTION AND THE EXISTING PAVEMENT. ANY PAVEMENT DROP-OFFS GREATER THAN 3 INCHES IMMEDIATELY ADJACENT TO TRAFFIC SHALL NOT BE LEFT OVERNIGHT. PROVIDE TEMPORARY HMA RAMP WEDGE OR OTHER MITIGATING MEASURES APPROVED BY THE ENGINEER. THE RAMP WEDGE SHALL USE HMA SURFACE COURSE AND WILL BE PAID FOR WITH THE APPLICABLE MIXTURE TYPE PER TON.

CHANNELIZING DEVICES ARE TO BE PLACED AT SAME LEVEL AS TRAVELING LANE OR SHOULDER PROFILE.

CHANNELIZING DEVICES MAY BE PLACED AT THE DROP-OFF ELEVATION TO PRESERVE LANE WIDTH. THE REFLECTIVE AREA AND WARNING LIGHT SHALL BE RAISED TO THE ELEVATION ABOVE THE TRAVELING LANE OR SHOULDER PROFILE AS REQUIRED BY STANDARD 701901.

CHANNELIZING DEVICES ARE TO BE PLACED AT THE SAME LEVEL AS SIDE SLOPE PROFILE TO BE FULLY VISIBLE.

DROP-OFFS GREATER THAN 18 IN. SHALL NOT BE EXPOSED TO TRAFFIC FOR GREATER THAN 48 HRS. ADDITIONALLY, PYLONS OF FLASHING LIGHTS SHALL BE PLACED AT DROP-OFFS GREATER THAN 18 IN.

THE CONTRACTOR SHALL MAINTAIN TRAFFIC IN ACCORDANCE WITH THE PLANS, SPECIAL PROVISIONS, STATE STANDARDS AND AS DIRECTED BY THE ENGINEER.

TYPE II BARRICADES SHALL BE PLACED ALONG THE ROADWAY AS INDICATED ON THE PLANS OR AS DIRECTED BY THE ENGINEER. TYPE II BARRICADES WITH DIRECTIONAL ARROWS SHALL BE PLACED AT LANE SHIFTS (TAPER SECTIONS) AS INDICATED ON THE PLANS OR DIRECTED BY THE ENGINEER. BARRICADES WITH LEG EXTENSIONS SHALL BE USED WHERE NEEDED TO PROVIDE A MINIMUM DISTANCE OF 36" BETWEEN THE PAVEMENT AND TOP OF BARRICADE. BARRICADES IN TAPER SECTIONS SHALL HAVE DIRECTION INDICATOR PANELS. ALL TYPE II BARRICADES SHALL BE NON-METALLIC.

THE CONTRACTOR SHALL INFORM THE ENGINEER OF ANY CHANGES IN STAGING AT LEAST TWO (2) WORKING DAYS IN ADVANCE.

TEMPORARY SIGNING, AS SHOWN, SHALL CONFORM TO THE APPLICABLE STANDARDS INCLUDED IN THE SPECIAL PROVISIONS AND CONTRACT PLANS OR AS DIRECTED BY THE ENGINEER.

ALL "ROAD CONSTRUCTION AHEAD" SIGNS SHALL BE EQUIPPED WITH MONO-DIRECTIONAL AMBER FLASHING LIGHTS.

ROAD NAME PLATES SHALL BE INSTALLED ON "ROAD CONSTRUCTION AHEAD" SIGNS AT INTERSECTIONS SHOWN ON THE PLANS.

EXISTING TRAFFIC CONTROL DEVICES WITHIN THE LIMITS OF CONSTRUCTION, ARE TO BE PROTECTED FROM DAMAGE BY THE CONTRACTOR. ANY DAMAGED SIGNS CAUSED BY HIS WORK SHALL BE REPLACED BY THE CONTRACTOR.

TRAFFIC CONTROL DEPICTED ON THE MAINTENANCE OF TRAFFIC PLANS IS THE MINIMUM REQUIREMENT. OTHER WORK OR SIGNING MAY BE REQUIRED BY THE ENGINEER.

MAINTENANCE OF TRAFFIC STAGING NOTES

PRE-STAGE

APPLICABLE HIGHWAY STANDARDS FOR TRAFFIC CONTROL AND PROTECTION FOR DAY-TIME LANE CLOSURES SHALL BE UTILIZED TO PERFORM THE FOLLOING WORK:

- MAINTAIN DRIVEWAYS AND ENTRANCE ACCESS WITH TEMPORARY ACCESS (EACH)
- RELOCATION OF UTILITIES

STAGE I

TRAVEL WAY SHALL REMAIN AS ONE LANE IN EACH DIRECTION ON IL ROUTE 60 AND ON WILSON ROAD.

ALL PROPOSED WORK SHALL BE EXECUTED WITHIN THE WORK AREA, THIS INCLUDES, BUT IS NOT LIMITED TO:

1. PERFORM EARTH AND PROPOSED DITCH GRADING IN WORK ZONE
2. CONSTRUCT PAVEMENT WIDENING, SHOULDERS, CULVERTS EXTENSION AND GUARDRAIL PLACEMENT ON NORTH SIDE OF IL 60 AND ON EACH SIDE OF WILSON ROAD.

STAGE II

TRAVEL WAY SHALL REMAIN AS ONE LANE IN EACH DIRECTION ON IL ROUTE 60 AND ON WILSON ROAD.

ALL PROPOSED WORK SHALL BE EXECUTED WITHIN THE WORK AREA, THIS INCLUDES, BUT IS NOT LIMITED TO:

1. PERFORM EARTH AND PROPOSED DITCH GRADING IN WORK ZONE
2. CONSTRUCT PAVEMENT WIDENING, SHOULDERS, CULVERTS EXTENSION AND GUARDRAIL PLACEMENT ON SOUTH SIDE OF IL 60.

STAGE III (NOT SHOWN ON MAINTENANCE OF TRAFFIC PLAN SHEETS)

ALL REMAINING PROPOSED WORK SHALL BE COMPLETED DURING THIS STAGE. THIS INCLUDES, BUT IS NOT LIMITED TO:

- RESURFACING OF REMAINING EXISTING PAVEMENT
- PLACEMENT OF HMA SURFACE COURSE WITHIN THE ENTIRE PROJECT LIMITS
- INSTALLATION OF PROPOSED LANDSCAPING THROUGHOUT PROJECT LIMITS
- INSTALLATION OF PROPOSED ROADWAY SIGNS
- INSTALLATION OF PROPOSED THERMOPLASTIC PAVEMENT MARKINGS AND RAISED REFLECTIVE PAVEMENT MARKERS (WHERE APPLICABLE)
- INSTALLATION OF PROPOSED TRAFFIC SIGNALS

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	DRAWN -	REVISED -
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PLOT DATE = 6/17/2021	DATE -	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

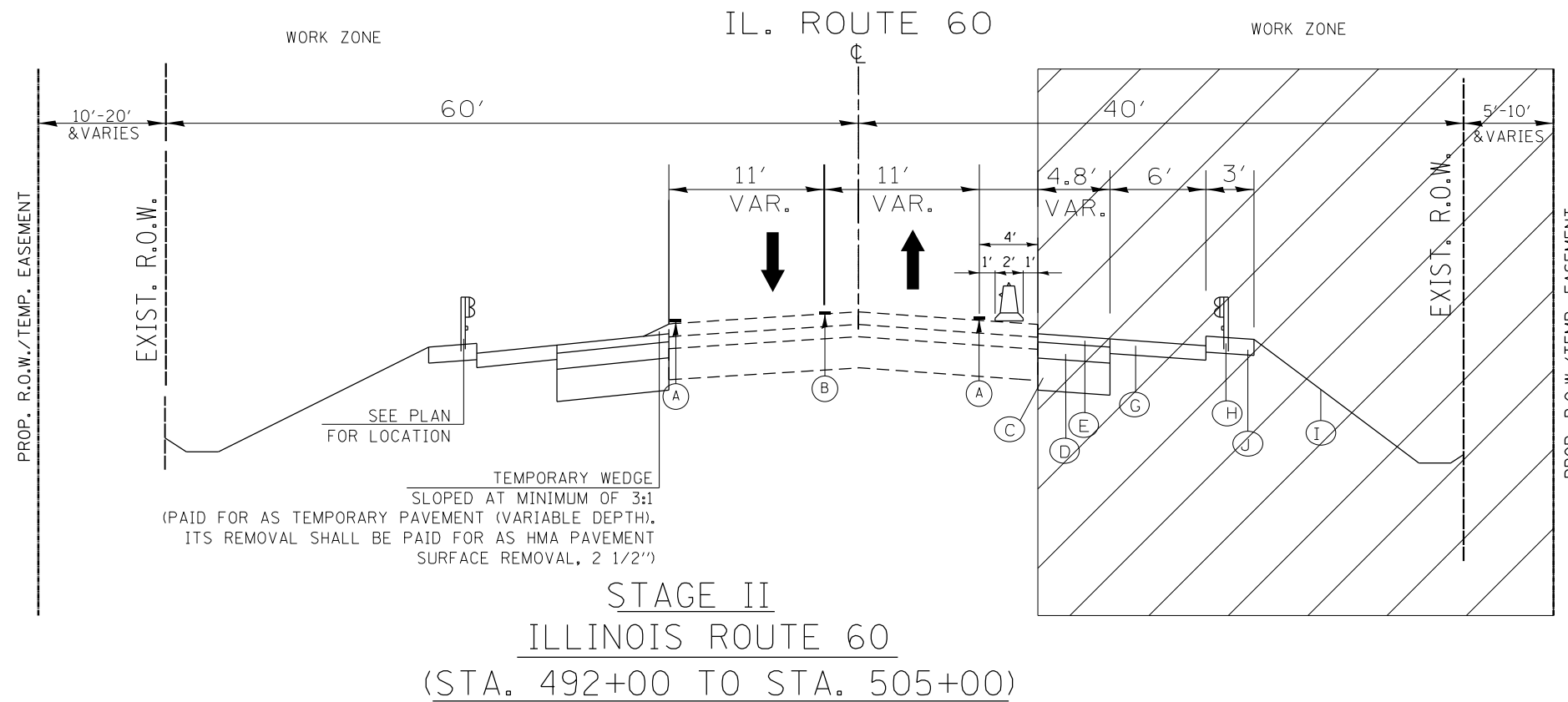
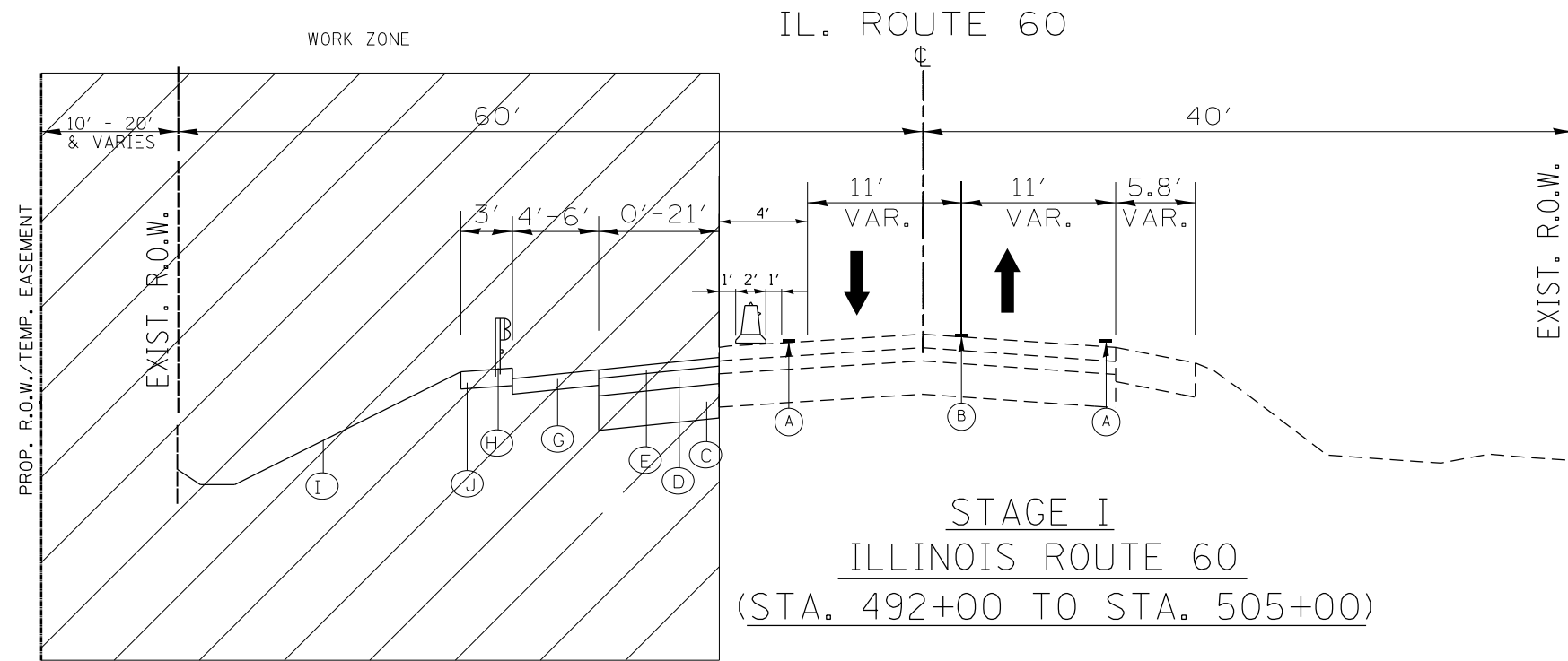
**IL ROUTE 60 AT WILSON ROAD  
CONSTRUCTION STAGING NOTES**

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
535	118N-2	LAKE	57	14
CONTRACT NO. 60X57				
ILLINOIS FED. AID PROJECT				

LEGEND

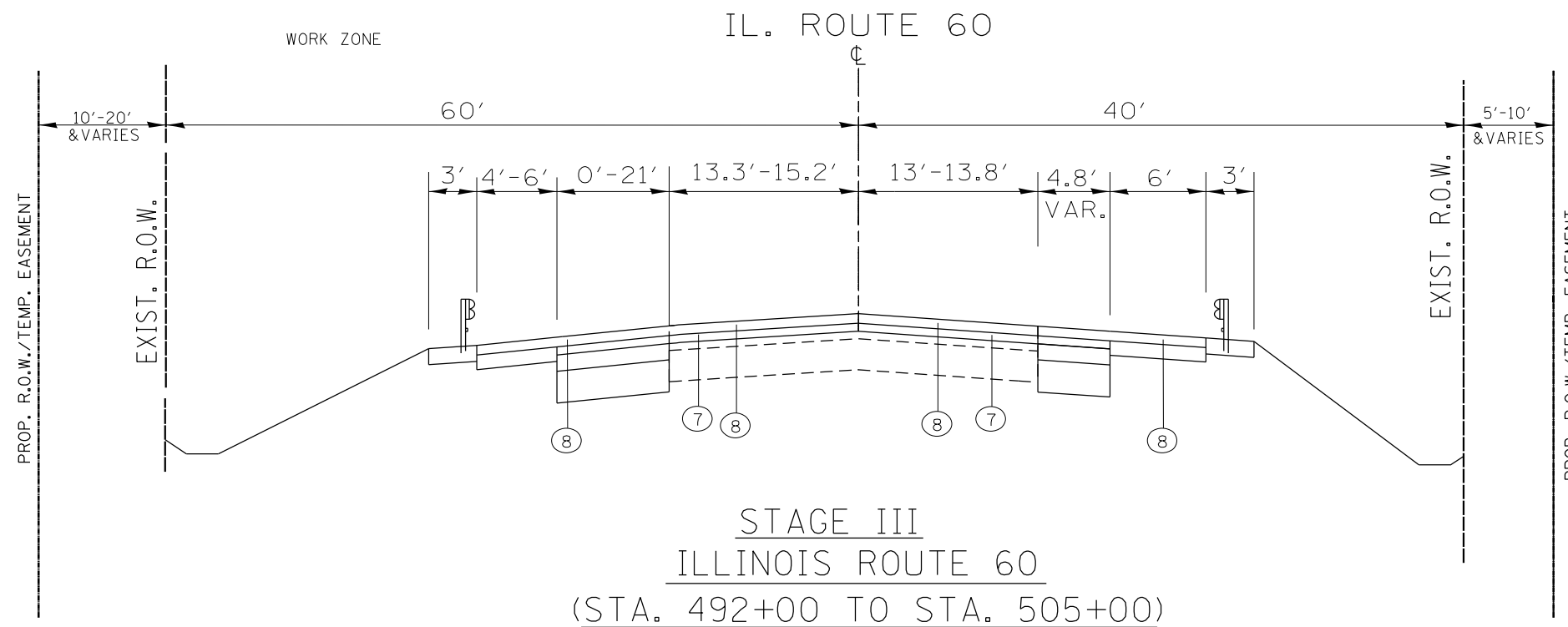
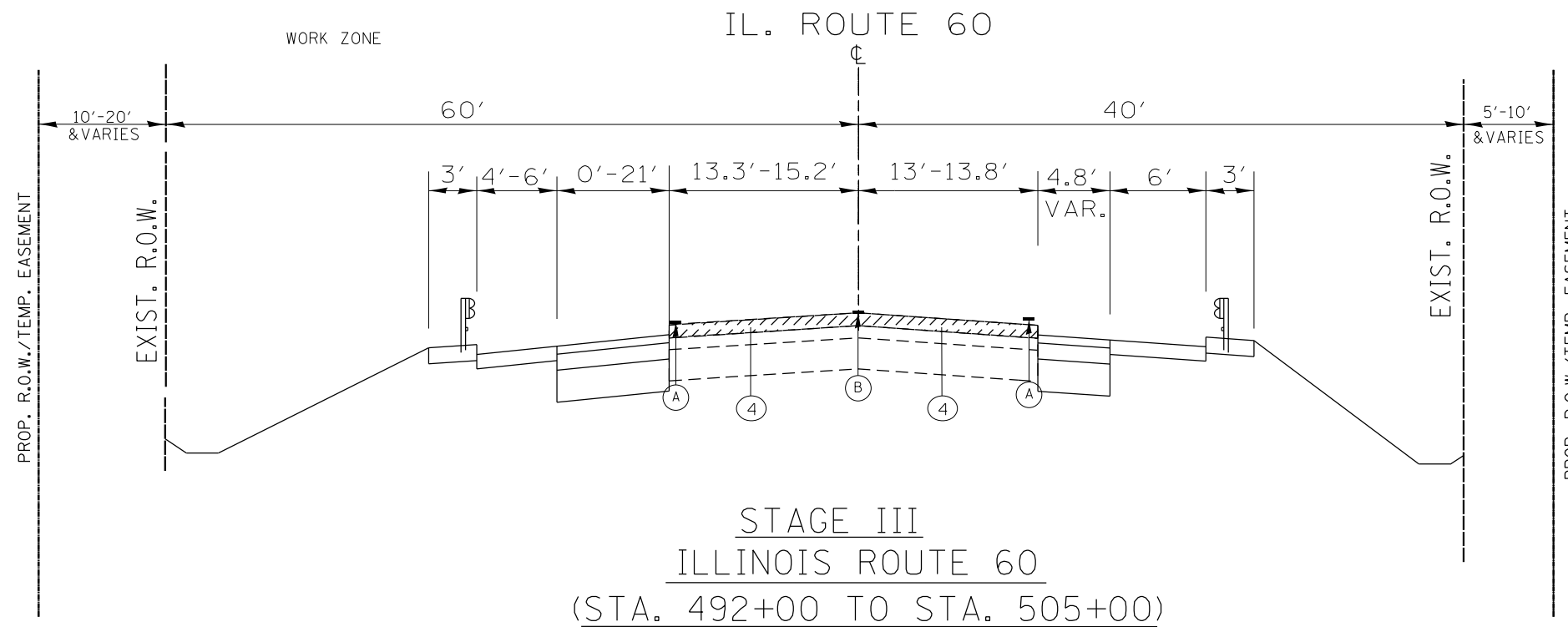
- (A) PAVEMENT MARKING, TAPE, TYPE IV, 4" (WHITE)
- (B) PAVEMENT MARKING, TAPE, TYPE IV, 4" (DOUBLE YELLOW)
- (C) PROPOSED AGGREGATE SUBGRADE IMPROVEMENT, 12"
- (D) PROPOSED HMA BINDER COURSE, IL-19, N90, 7 3/4"
- (E) PROPOSED POLYMERIZED HMA BINDER COURSE, N50, IL 4.75 3/4"
- (F) PROPOSED POLYMERIZED HMA SURFACE COURSE, MIX "E", N70, 1 3/4"
- (G) PROPOSED HMA SHOULDER, (BINDER ONLY)
- (H) PROPOSED GUARDWAIL (SEE PLAN SHEET)
- (I) PROPOSED TOPSOIL, 6"
- (J) PROPOSED AGGREGATE SHOULDER, TYPE B, 10"



FILE NAME =	USER NAME = guillaumefp	DESIGNED -	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>CONSTRUCTION STAGING: TYPICAL SECTIONS IL ROUTE 60</b>			F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
pw:\plan-room.dot.illinois.gov\PIDOT\Documents\IDOT Offices\District 1\Projects\P109410\DRAWING\Design\P109410-sht-details.dgn		CHECKED -	REVISED -					535	118N-2	LAKE	57	15
PLOT SCALE = 100.0097' / in.		DATE -	REVISED -		CONTRACT NO. 60X57			ILLINOIS FED. AID PROJECT				
PLOT DATE = 6/17/2021					SCALE: N/A	SHEET NO.	OF SHEETS	STA.	TO STA.			

**LEGEND**

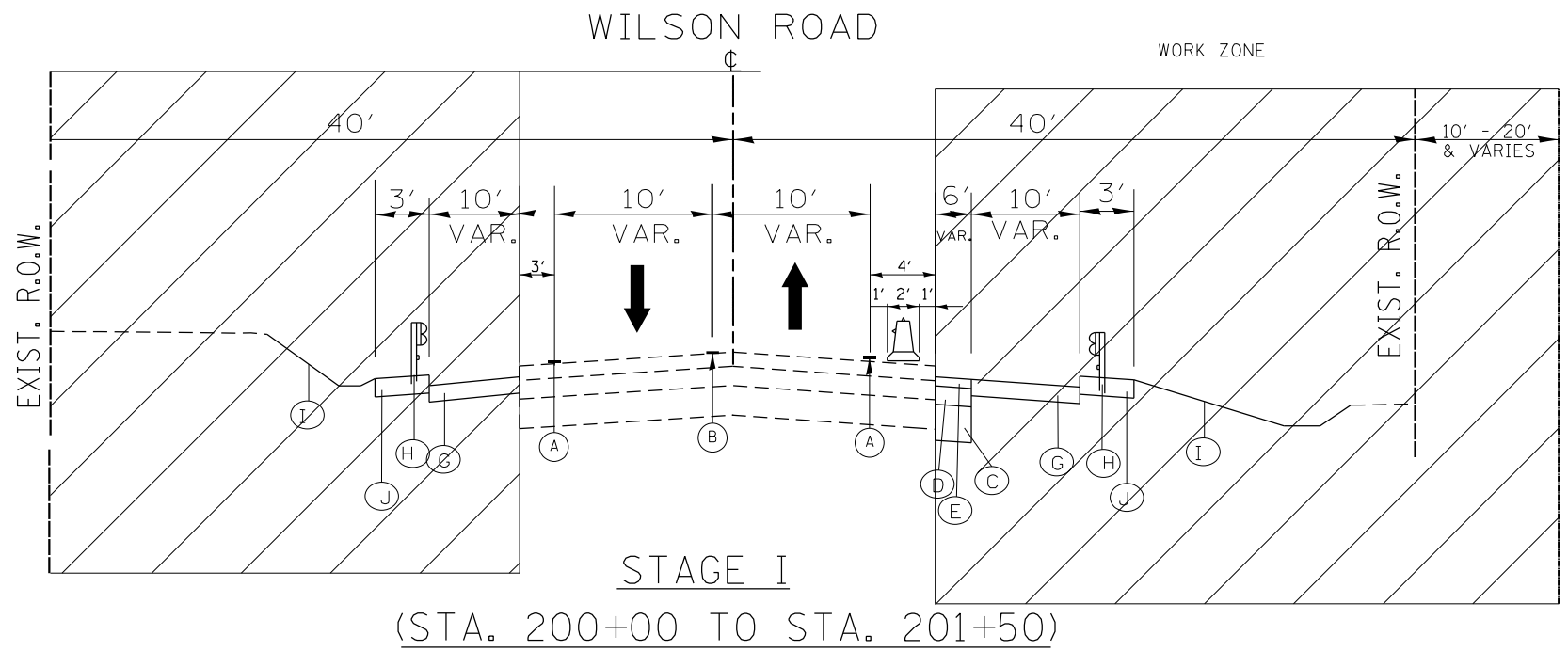
- ① EXISTING P.C.C. PAVEMENT, ± 9"
- ② EXISTING HMA SURFACE COURSE, ± 13"
- ③ EXISTING AGGREGATE SHOULDER, TYPE B, 6"
- ④ PROPOSED HMA SURFACE REMOVAL, 2 1/2"
- ⑤ PROPOSED AGGREGATE SUBGRADE IMPROVEMENT, 12"
- ⑥ PROPOSED HMA BINDER COURSE, IL-19, N90, 7 3/4"
- ⑦ PROPOSED POLYMERIZED HMA BINDER COURSE, N50, IL 4.75 3/4"
- ⑧ PROPOSED POLYMERIZED HMA SURFACE COURSE, MIX "E", N70, 1 3/4"
- ⑨ PROPOSED HMA SHOULDER, 8" (SURFACE AND BINDER)
- ⑩ PROPOSED GUARDWALL (SEE PLAN SHEET)
- ⑪ PROPOSED TOPSOIL, 6"
- ⑫ EXISTING HMA SURFACE OVERLAY
- ⑬ PROPOSED AGGREGATE SHOULDER, TYPE B, 10"



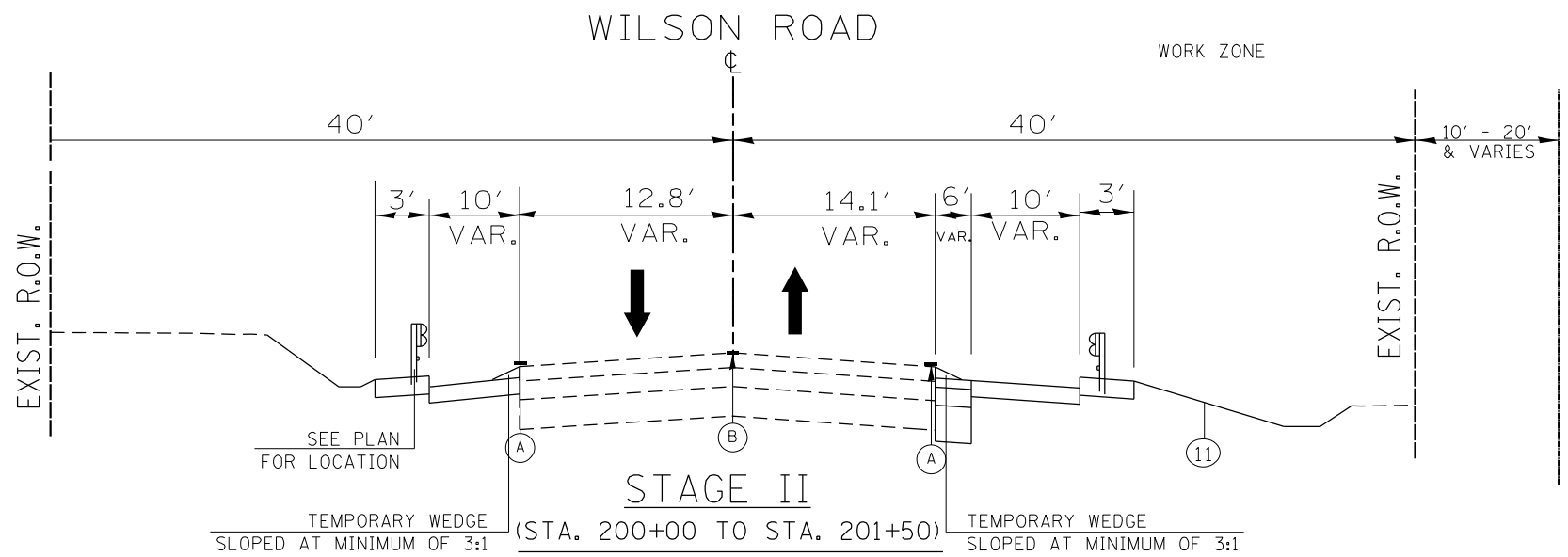
- Ⓐ PAVEMENT MARKING. TAPE, TYPE IV, 4" (WHITE)
- Ⓑ PAVEMENT MARKING. TAPE, TYPE IV, 4" (DOUBLE YELLOW)

FILE NAME =	USER NAME = paraynoal	DESIGNED -	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>CONSTRUCTION STAGING: TYPICAL SECTIONS IL ROUTE 60</b>			F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
pw:\planroom.dot.illinois.gov\PIDOT\Documents\IDOT Offices\District 1\Projects\P109410\DRAWING\Design\P109410-sht-details.dgn								535	118N-2	LAKE	57	16
PLOT SCALE = 100.0097' / in.					CHECKED -	CONTRACT NO. 60X57			ILLINOIS FED. AID PROJECT			
PLOT DATE = 6/15/2021					DATE -	SCALE: N/A	SHEET NO.	OF SHEETS	STA.	TO STA.		





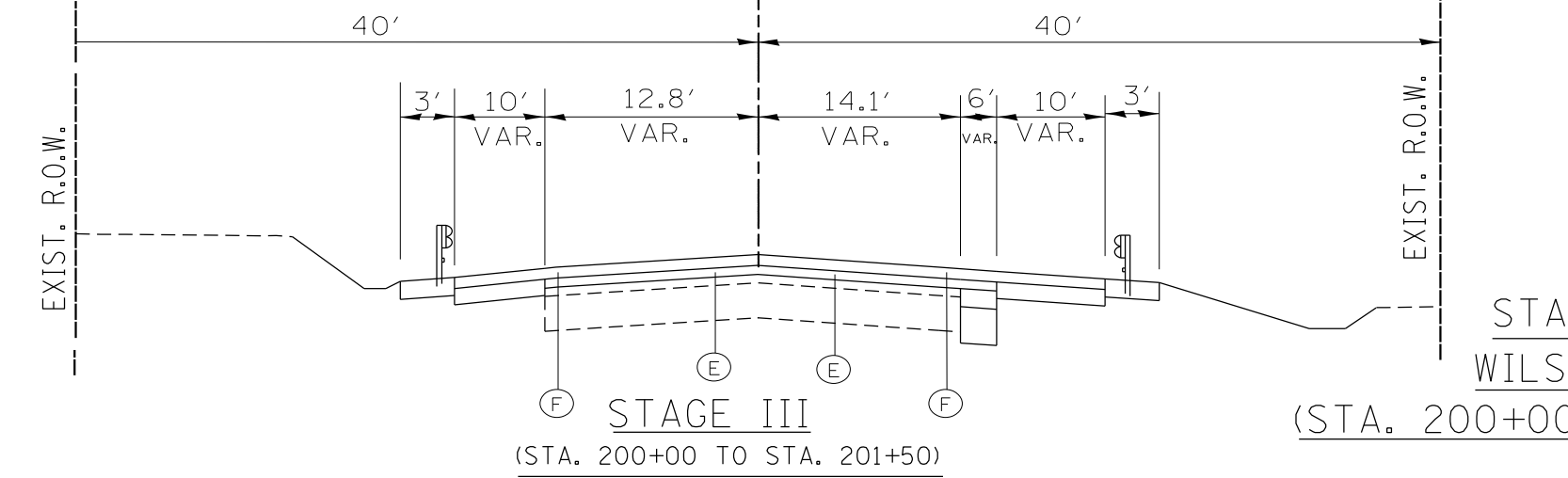
STAGE I  
(STA. 200+00 TO STA. 201+50)



STAGE II  
(STA. 200+00 TO STA. 201+50)

TEMPORARY WEDGE SLOPED AT MINIMUM OF 3:1 (PAID FOR AS TEMPORARY PAVEMENT (VARIABLE DEPTH). ITS REMOVAL SHALL BE PAID FOR AS HMA PAVEMENT SURFACE REMOVAL, 2 1/2")

TEMPORARY WEDGE SLOPED AT MINIMUM OF 3:1 (PAID FOR AS TEMPORARY PAVEMENT (VARIABLE DEPTH). ITS REMOVAL SHALL BE PAID FOR AS PAVEMENT REMOVAL)



STAGE III  
(STA. 200+00 TO STA. 201+50)

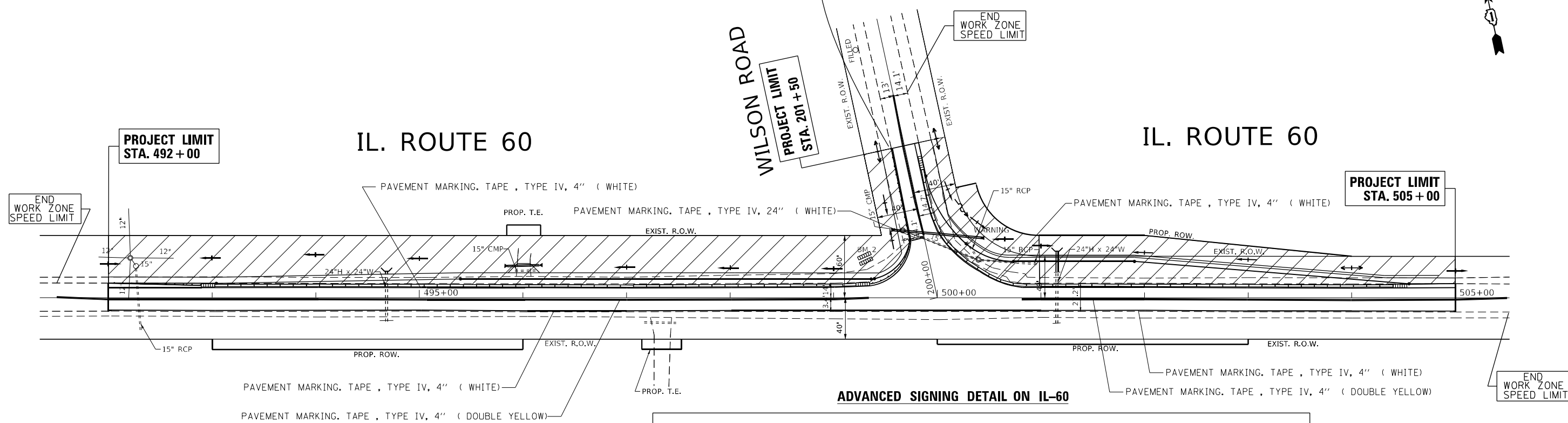
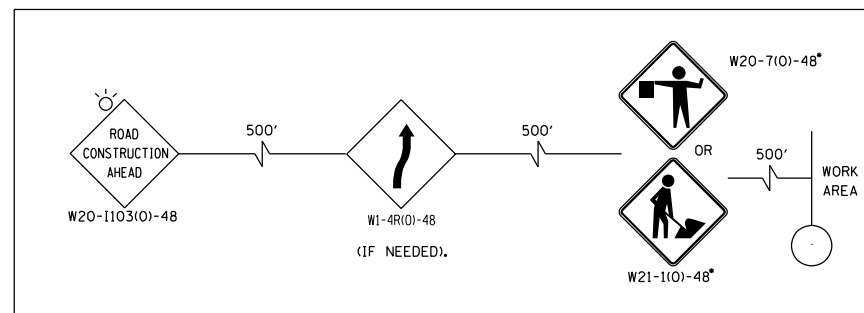
STAGE III  
WILSON ROAD  
(STA. 200+00 TO STA. 201+50)

LEGEND

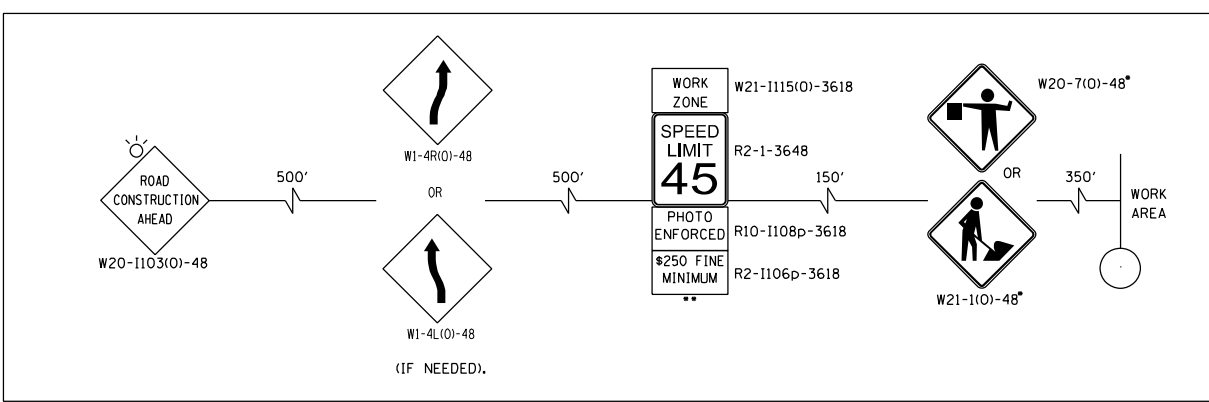
- (A) PAVEMENT MARKING, TAPE, TYPE IV, 4" (WHITE)
- (B) PAVEMENT MARKING, TAPE, TYPE IV, 4" (DOUBLE YELLOW)
- (C) PROPOSED AGGREGATE SUBGRADE IMPROVEMENT, 12"
- (D) PROPOSED HMA BINDER COURSE, IL-19, N90, 7 3/4"
- (E) PROPOSED POLYMERIZED HMA BINDER COURSE, N50, IL 4.75 3/4"
- (F) PROPOSED POLYMERIZED HMA SURFACE COURSE, MIX "E", N70, 1 3/4"
- (G) PROPOSED HMA SHOULDER, (BINDER ONLY)
- (H) PROPOSED GUARDWAIL (SEE PLAN SHEET)
- (I) PROPOSED TOPSOIL, 6"
- (J) PROPOSED AGGREGATE SHOULDER, TYPE B, 10"

FILE NAME =	USER NAME = guillaumejp	DESIGNED -	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>CONSTRUCTION STAGING: TYPICAL SECTIONS WILSON ROAD</b>			F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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PLOT DATE = 6/17/2021	DATE -	REVISED -	REVISED -		SCALE: N/A			SHEET NO. OF SHEETS STA. TO STA.		CONTRACT NO. 60X57		
								ILLINOIS FED. AID PROJECT				

**ADVANCED SIGNING DETAIL ON WILSON RD.**



**ADVANCED SIGNING DETAIL ON IL-60**



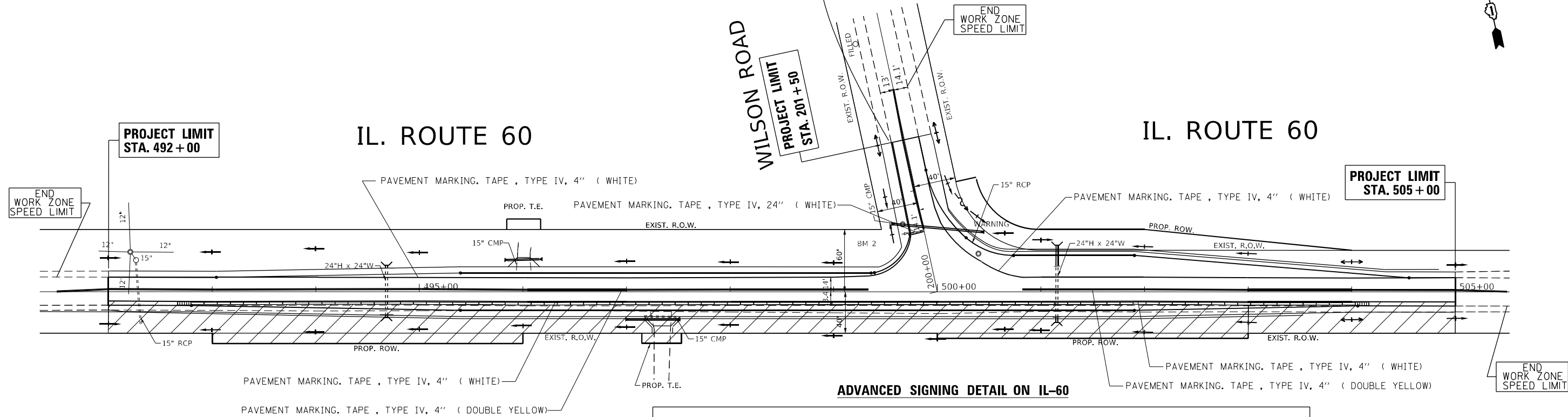
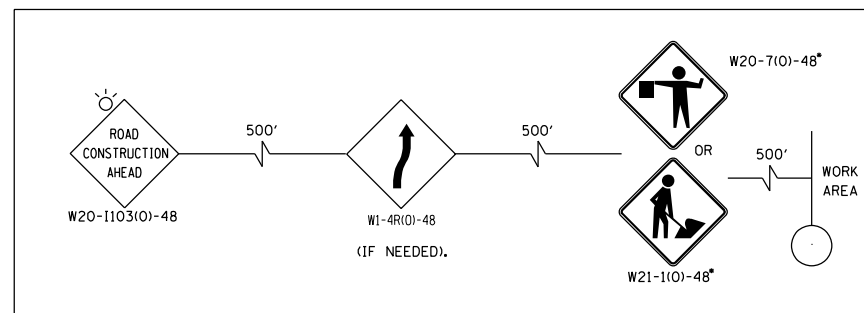
**LEGEND:**

- WORK ZONE
- DIRECTION OF TRAFFIC
- MAINTENANCE OF TRAFFIC SIGN
- TEMPORARY CONC. BARRIER
- TYPE II BARRICADES WITH BI-DIRECTIONAL FLASHING LIGHT  
50' C-C ON TANGENT, 20' C-C ON TAPERS AND 12' ON RADII
- TYPE III BARRICADE WITH FLASHING LIGHTS

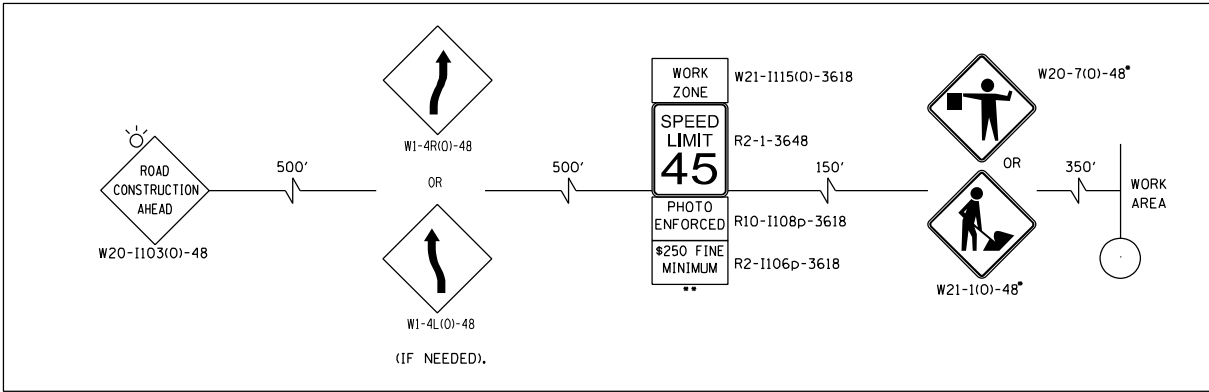
**NOTES:**

- SIGN SHALL BE TAKEN DOWN WHEN WORKERS OR FLAGGERS ARE NOT PRESENT.
- PLACE WORK ZONE SPEED LIMIT SIGNING 500' FROM WORK ZONE AND WITHIN 500' DOWNSTREAM OF IL-60 AND WILSON ROAD.

**ADVANCED SIGNING DETAIL ON WILSON RD.**



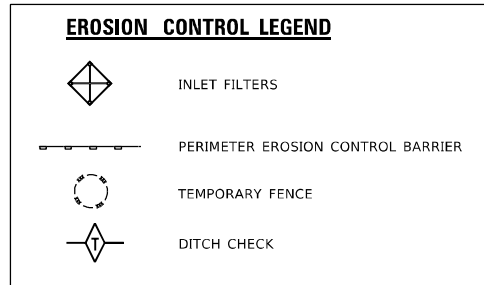
**ADVANCED SIGNING DETAIL ON IL-60**



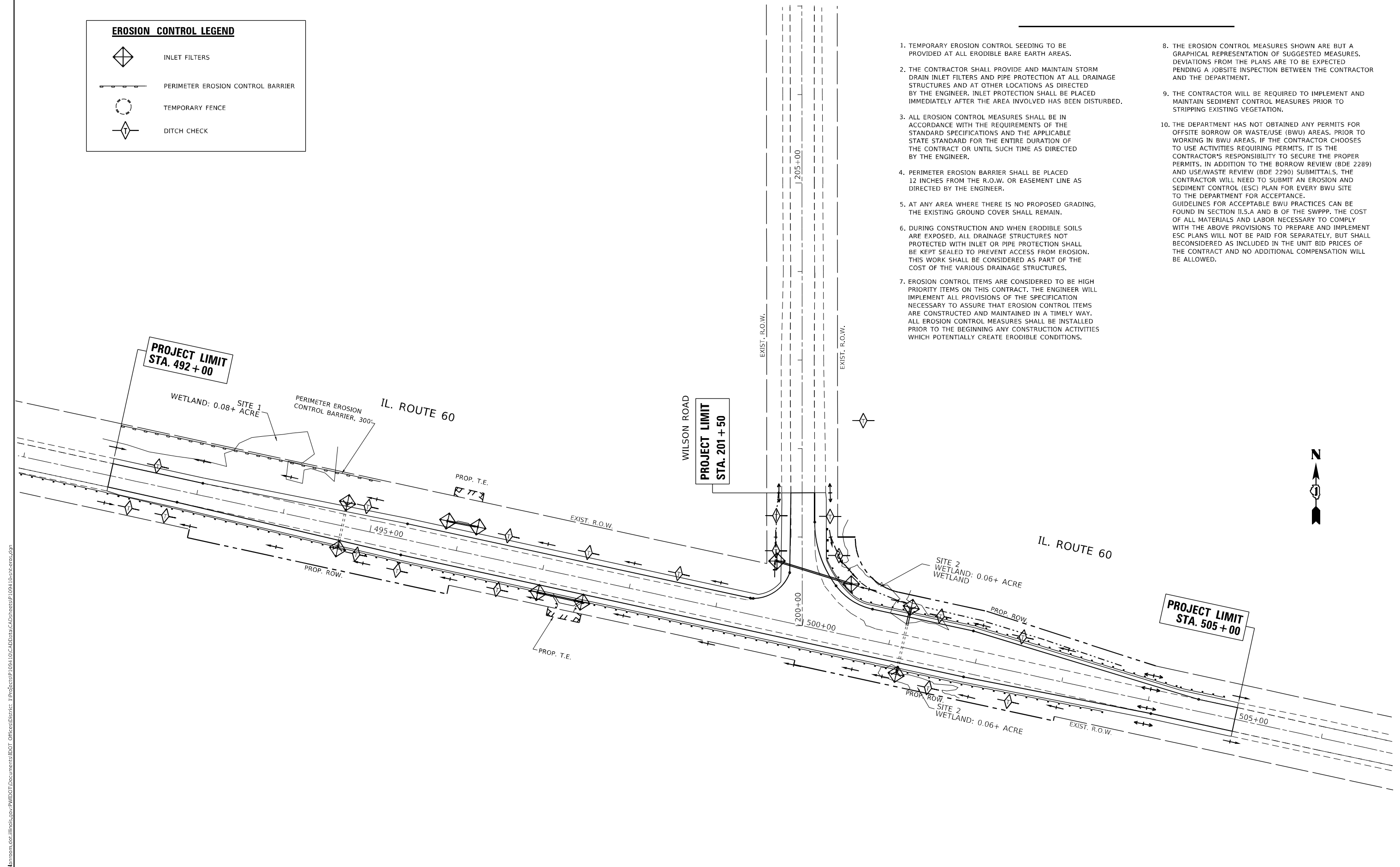
**LEGEND:**

	WORK ZONE
	DIRECTION OF TRAFFIC
	MAINTENANCE OF TRAFFIC SIGN
	TEMPORARY CONC. BARRIER
	TYPE II BARRICADES WITH BI-DIRECTIONAL FLASHING LIGHT 50' C-C ON TANGENT, 20' C-C ON TAPERS AND 12' ON RADII
	TYPE III BARRICADE WITH FLASHING LIGHTS

- NOTES:**
- \* SIGN SHALL BE TAKEN DOWN WHEN WORKERS OR FLAGGERS ARE NOT PRESENT.
  - \*\* PLACE WORK ZONE SPEED LIMIT SIGNING 500' FROM WORK ZONE AND WITHIN 500' DOWNSTREAM OF IL-60 AND WILSON ROAD.



1. TEMPORARY EROSION CONTROL SEEDING TO BE PROVIDED AT ALL ERODIBLE BARE EARTH AREAS.
2. THE CONTRACTOR SHALL PROVIDE AND MAINTAIN STORM DRAIN INLET FILTERS AND PIPE PROTECTION AT ALL DRAINAGE STRUCTURES AND AT OTHER LOCATIONS AS DIRECTED BY THE ENGINEER. INLET PROTECTION SHALL BE PLACED IMMEDIATELY AFTER THE AREA INVOLVED HAS BEEN DISTURBED.
3. ALL EROSION CONTROL MEASURES SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE STATE STANDARD FOR THE ENTIRE DURATION OF THE CONTRACT OR UNTIL SUCH TIME AS DIRECTED BY THE ENGINEER.
4. PERIMETER EROSION BARRIER SHALL BE PLACED 12 INCHES FROM THE R.O.W. OR EASEMENT LINE AS DIRECTED BY THE ENGINEER.
5. AT ANY AREA WHERE THERE IS NO PROPOSED GRADING, THE EXISTING GROUND COVER SHALL REMAIN.
6. DURING CONSTRUCTION AND WHEN ERODIBLE SOILS ARE EXPOSED, ALL DRAINAGE STRUCTURES NOT PROTECTED WITH INLET OR PIPE PROTECTION SHALL BE KEPT SEALED TO PREVENT ACCESS FROM EROSION. THIS WORK SHALL BE CONSIDERED AS PART OF THE COST OF THE VARIOUS DRAINAGE STRUCTURES.
7. EROSION CONTROL ITEMS ARE CONSIDERED TO BE HIGH PRIORITY ITEMS ON THIS CONTRACT. THE ENGINEER WILL IMPLEMENT ALL PROVISIONS OF THE SPECIFICATION NECESSARY TO ASSURE THAT EROSION CONTROL ITEMS ARE CONSTRUCTED AND MAINTAINED IN A TIMELY WAY. ALL EROSION CONTROL MEASURES SHALL BE INSTALLED PRIOR TO THE BEGINNING ANY CONSTRUCTION ACTIVITIES WHICH POTENTIALLY CREATE ERODIBLE CONDITIONS.
8. THE EROSION CONTROL MEASURES SHOWN ARE BUT A GRAPHICAL REPRESENTATION OF SUGGESTED MEASURES. DEVIATIONS FROM THE PLANS ARE TO BE EXPECTED PENDING A JOBSITE INSPECTION BETWEEN THE CONTRACTOR AND THE DEPARTMENT.
9. THE CONTRACTOR WILL BE REQUIRED TO IMPLEMENT AND MAINTAIN SEDIMENT CONTROL MEASURES PRIOR TO STRIPPING EXISTING VEGETATION.
10. THE DEPARTMENT HAS NOT OBTAINED ANY PERMITS FOR OFFSITE BORROW OR WASTE/USE (BWU) AREAS. PRIOR TO WORKING IN BWU AREAS, IF THE CONTRACTOR CHOOSES TO USE ACTIVITIES REQUIRING PERMITS, IT IS THE CONTRACTOR'S RESPONSIBILITY TO SECURE THE PROPER PERMITS. IN ADDITION TO THE BORROW REVIEW (BDE 2289) AND USE/WASTE REVIEW (BDE 2290) SUBMITTALS, THE CONTRACTOR WILL NEED TO SUBMIT AN EROSION AND SEDIMENT CONTROL (ESC) PLAN FOR EVERY BWU SITE TO THE DEPARTMENT FOR ACCEPTANCE. GUIDELINES FOR ACCEPTABLE BWU PRACTICES CAN BE FOUND IN SECTION 11.5.A AND B OF THE SWPPP. THE COST OF ALL MATERIALS AND LABOR NECESSARY TO COMPLY WITH THE ABOVE PROVISIONS TO PREPARE AND IMPLEMENT ESC PLANS WILL NOT BE PAID FOR SEPARATELY, BUT SHALL BE CONSIDERED AS INCLUDED IN THE UNIT BID PRICES OF THE CONTRACT AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED.



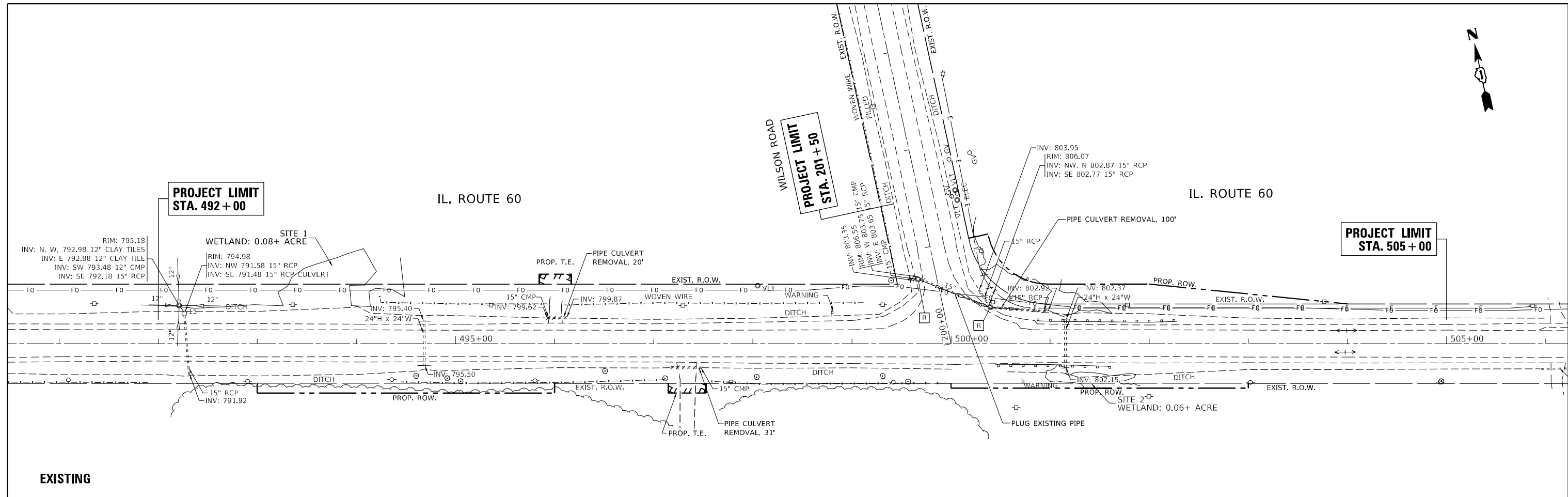
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	DRAWN -	REVISED -
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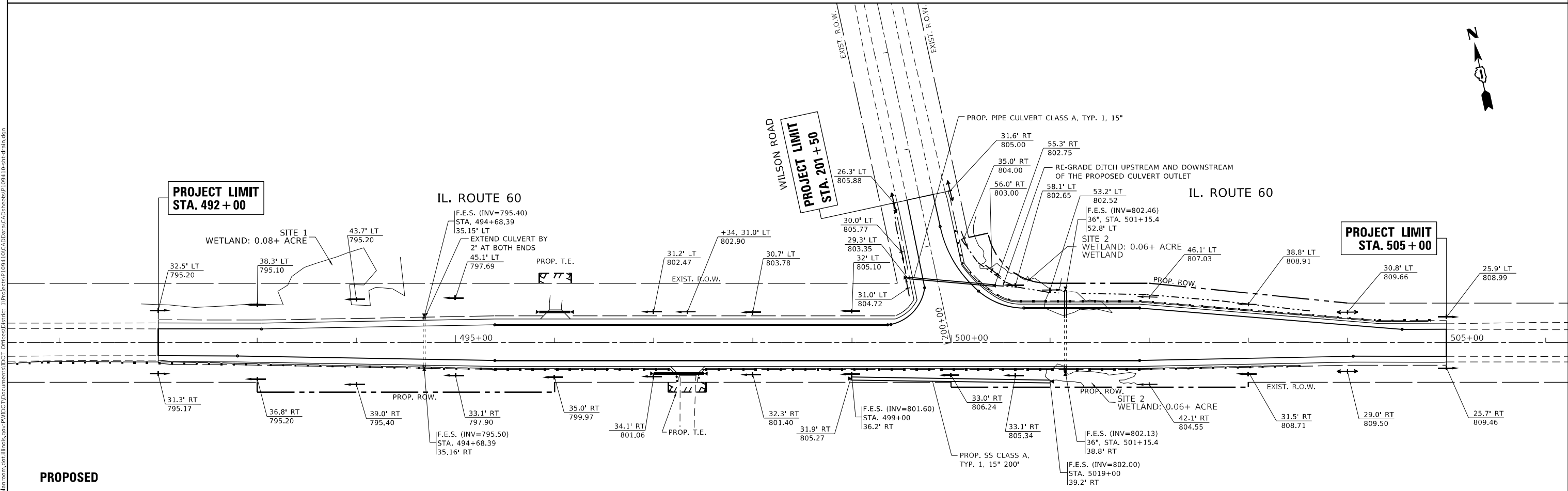
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

<b>EROSION CONTROL PLAN</b>			
<b>IL. ROUTE 60 AT WILSON ROAD</b>			
SCALE: 1"=50'	SHEET	OF SHEETS	STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
535	118N-2	LAKE	57	18
CONTRACT NO. 60X57				
ILLINOIS FED. AID PROJECT				



**EXISTING**



**PROPOSED**

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 OFFICE: DISTRICT 5  
 DATE: 6/15/2021

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	DRAWN -	REVISED -
PLOT SCALE = 100,0000' / in.	CHECKED -	REVISED -
PLOT DATE = 6/15/2021	DATE -	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

<b>EXISTING &amp; PROPOSED DRAINAGE PLAN</b>			
<b>IL. ROUTE 60 AT WILSON ROAD</b>			
SCALE: 1"=50'	SHEET	OF SHEETS	STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
535	118N-2	LAKE	57	19
CONTRACT NO. 60X57				
ILLINOIS FED. AID PROJECT				

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION  
DIVISION OF HIGHWAYS**

# PLAT OF HIGHWAYS

**ROUTE: IL. ROUTE 60**  
**SECTION: AT WILSON ROAD**  
**COUNTY: LAKE**  
**LIMITS: AT WILSON ROAD**

**JOB NO.: R-91-033-13**

\* IL. ROUTE 60

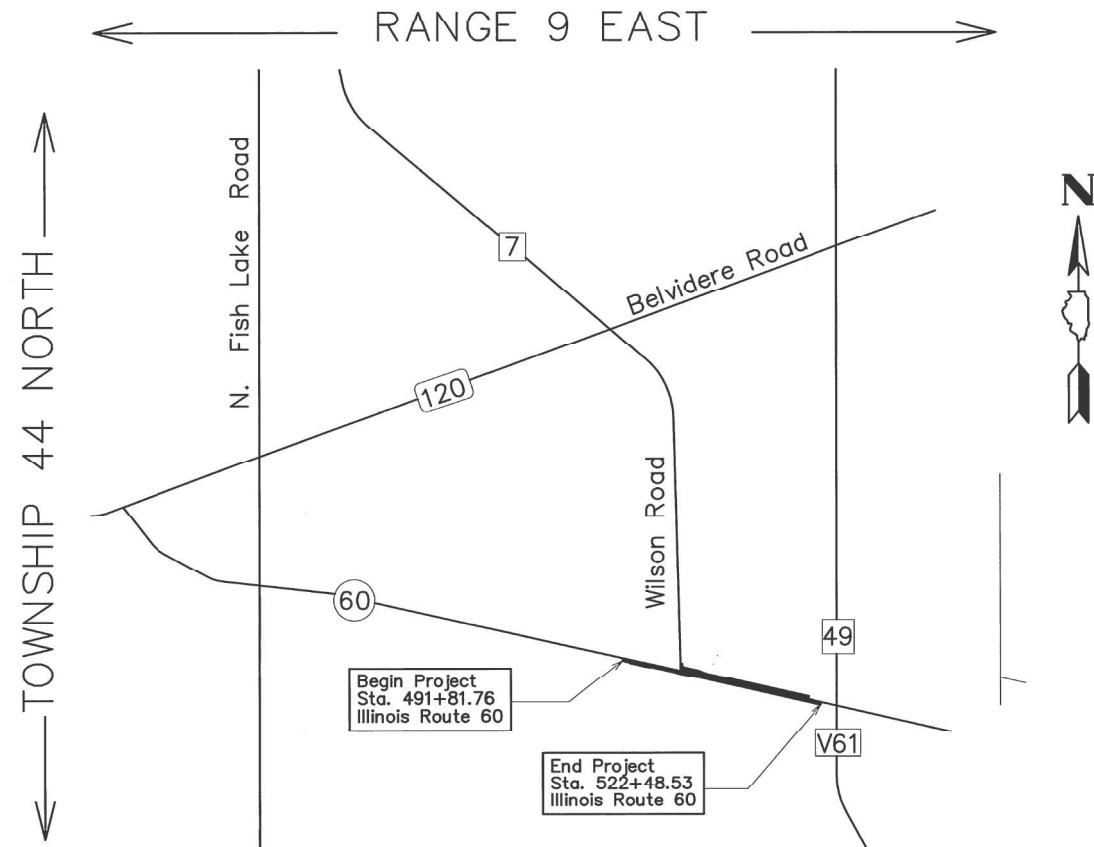
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1		LAKE	3	1
F.H.W.A. REQ.	ILLINOIS	PROJECT		

R-91-033-13

DISTRICT HEADQUARTERS: - \*

LOCATION OF SECTION INDICATED THUS: - ■

PRINTED BY THE AUTHORITY  
OF THE STATE OF ILLINOIS



**LOCATION MAP**

Not to Scale

PROJECT LENGTH = 3,067 FT. = 0.581 MILE

PARCEL NUMBER	OWNER	SHEET NUMBER	PROPERTY ACQUIRED BY
1KW0001 1KW0001TE	JoJan Devoted, LLC, an Illinois limited liability company	2, 4	
1KW0002PE	Commonwealth Edison Company	2, 4	
1KW0003TE	The Chapel, an Illinois religious corporation.	2, 4	
1KW0004	Megara Properties LLC - Series 19, an Illinois limited liability company	2, 3 & 4	
1KW0005	Megara Properties LLC - Series 19, an Illinois limited liability company	2, 3 & 4	

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**PLAT OF HIGHWAYS  
IL ROUTE 60 AT WILSON ROAD**

ASM Consultants, Inc.  
16 E Wilson St, Batavia IL 60510  
Tel (630) 879-0200 Fax (630) 454-3774  
advanced@advct.com  
Professional Design Firm #184-006014 expires 4/30/2021  
ASM PROJECT NO. 777-005

SHEET 1 OF 5 SHEETS

**IDOT USE ONLY**  
**RECEIVED**  
**JUN 13 2019**  
 PLATS & LEGALS

PART OF THE EAST HALF SE 1/4 OF SECTION 1, TWP. 44 N., R. 9 E. AND THE WEST HALF OF THE SW 1/4 OF SECTION 6, TWP. 44 N., R. 10 E. OF THE 3RD. P.M., LAKE COUNTY, ILLINOIS.

PARCEL NUMBER	TOTAL HOLDINGS ACRES	PART TAKEN ACRES	AREA IN EXISTING R.O.W. ACRES	REMAINDER AREA ACRES	EASEMENT AREA		PARCEL INDEX NUMBER
					ACRES	SQUARE FEET	
1KW0001	19.998	0.864	0.798	19.134			09-01-400-014
1KW0001TE					0.009	382	
1KW0002PE	9.217		0.293	9.217	0.397		10-06-300-001
1KW0003TE	65.299	N/A	N/A	N/A	0.007	327	09-01-400-030
1KW0004	84.820	1.670	1.594	83.150			10-06-300-006 (PT) 10-06-100-004
1KW0005	96.270	1.893	1.882	94.377			10-06-300-006 (PT) 10-07-100-002

LINE & CURVE DATA	
L1	S.88°14'20"E. 20.01'
L2	S.00°05'55"E. 19.29'
L3	S.00°05'55"E. 107.48'
L4	N.00°05'55"W. 155.56'
L5	N.00°05'55"W. 61.42'
L6	S.00°05'55"E. 46.06'
C1	R = 40.38' A = 54.74' CH. BRG. S.38°56'11"E. CHORD = 50.65'

**LEGEND**

SECTION CORNER 9 10 16 15  
QUARTER SECTION CORNER

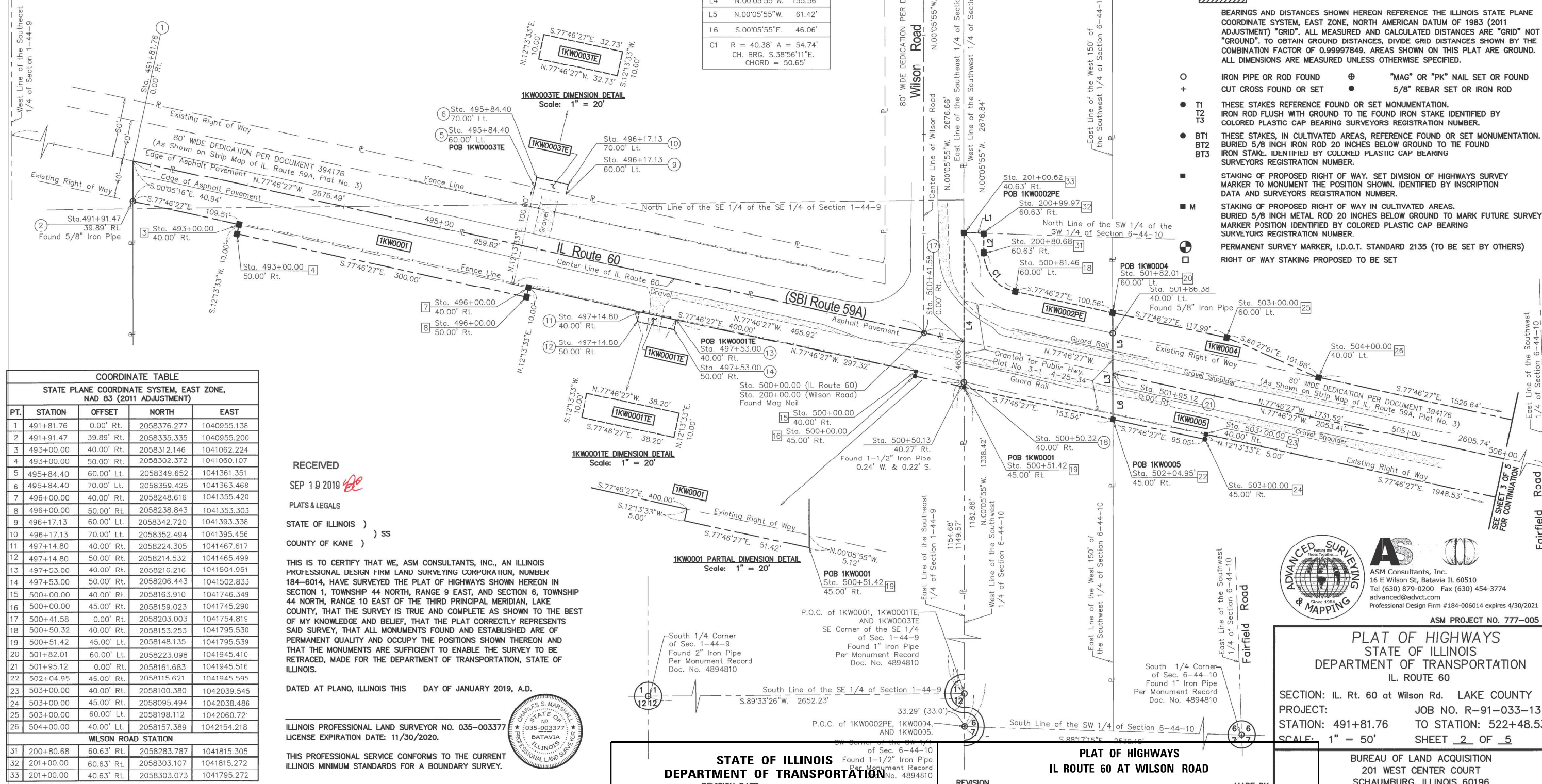
SECTION / QUARTER SECTION LINE  
PLATTED LOT LINES  
PROPERTY (DEED) LINE  
APPARENT PROPERTY LINE  
EXISTING CENTERLINE  
PROPOSED CENTERLINE  
EXISTING RIGHT OF WAY LINE  
PROPOSED RIGHT OF WAY LINE  
EXISTING EASEMENT  
PROPOSED EASEMENT  
EXISTING ACCESS CONTROL LINE  
PROPOSED ACCESS CONTROL LINE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

129.32' (COMP)  
(129.32')

BEARINGS AND DISTANCES SHOWN HEREON REFERENCE THE ILLINOIS STATE PLANE COORDINATE SYSTEM, EAST ZONE, NORTH AMERICAN DATUM OF 1983 (2011 ADJUSTMENT) "GRID". ALL MEASURED AND CALCULATED DISTANCES ARE "GRID" NOT "GROUND". TO OBTAIN GROUND DISTANCES, DIVIDE GRID DISTANCES SHOWN BY THE COMBINATION FACTOR OF 0.99997849. AREAS SHOWN ON THIS PLAT ARE GROUND. ALL DIMENSIONS ARE MEASURED UNLESS OTHERWISE SPECIFIED.

O IRON PIPE OR ROD FOUND  
+ CUT CROSS FOUND OR SET  
● T1 THESE STAKES REFERENCE FOUND OR SET MONUMENTATION.  
● T2 IRON ROD FLUSH WITH GROUND TO THE FOUND IRON STAKE IDENTIFIED BY COLORED PLASTIC CAP BEARING SURVEYORS REGISTRATION NUMBER.  
● BT1 THESE STAKES, IN CULTIVATED AREAS, REFERENCE FOUND OR SET MONUMENTATION.  
● BT2 BURIED 5/8 INCH IRON ROD 20 INCHES BELOW GROUND TO THE FOUND IRON STAKE. IDENTIFIED BY COLORED PLASTIC CAP BEARING SURVEYORS REGISTRATION NUMBER.  
● 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

0 50 100  
SCALE: 1" = 50'



**COORDINATE TABLE**

STATE PLANE COORDINATE SYSTEM, EAST ZONE, NAD 83 (2011 ADJUSTMENT)

PT.	STATION	OFFSET	NORTH	EAST
1	491+81.76	0.00' Rt.	2058376.277	1040955.138
2	491+91.47	39.89' Rt.	2058333.335	1040955.200
3	493+00.00	40.00' Rt.	2058312.146	1041062.224
4	493+00.00	50.00' Rt.	2058302.372	1041060.107
5	495+84.40	60.00' Lt.	2058349.652	1041361.351
6	495+84.40	70.00' Lt.	2058359.425	1041363.468
7	496+00.00	40.00' Rt.	2058248.616	1041355.420
8	496+00.00	50.00' Rt.	2058238.843	1041353.303
9	496+17.13	60.00' Lt.	2058342.720	1041393.338
10	496+17.13	70.00' Lt.	2058352.494	1041395.456
11	497+14.80	40.00' Rt.	2058224.305	1041467.617
12	497+14.80	50.00' Rt.	2058214.532	1041465.499
13	497+53.00	40.00' Rt.	2058021.216	1041504.951
14	497+53.00	50.00' Rt.	2058206.443	1041502.833
15	500+00.00	40.00' Rt.	2058163.910	1041746.349
16	500+00.00	45.00' Rt.	2058159.023	1041745.290
17	500+41.58	0.00' Rt.	2058203.003	1041754.819
18	500+50.32	40.00' Rt.	2058153.253	1041795.530
19	500+51.42	45.00' Lt.	2058148.135	1041795.539
20	501+82.01	60.00' Lt.	2058223.098	1041945.410
21	501+95.12	0.00' Rt.	2058161.683	1041945.516
22	502+04.95	45.00' Rt.	2058115.621	1041945.595
23	503+00.00	40.00' Rt.	2058100.380	1042039.545
24	503+00.00	45.00' Rt.	2058095.494	1042038.486
25	503+00.00	60.00' Lt.	2058198.112	1042060.721
26	504+00.00	40.00' Lt.	2058157.389	1042154.218
<b>WILSON ROAD STATION</b>				
31	200+80.68	60.63' Rt.	2058283.787	1041815.305
32	201+00.00	60.63' Rt.	2058303.107	1041815.272
33	201+00.00	40.63' Rt.	2058303.073	1041795.272

RECEIVED  
SEP 19 2019

PLATS & LEGALS  
STATE OF ILLINOIS )  
COUNTY OF KANE ) SS

THIS IS TO CERTIFY THAT WE, ASM CONSULTANTS, INC., AN ILLINOIS PROFESSIONAL DESIGN FIRM LAND SURVEYING CORPORATION, NUMBER 184-6014, HAVE SURVEYED THE PLAT OF HIGHWAYS SHOWN HEREON IN SECTION 1, TOWNSHIP 44 NORTH, RANGE 9 EAST, AND SECTION 6, TOWNSHIP 44 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 PLANO, ILLINOIS THIS DAY OF JANUARY 2019, A.D.

ILLINOIS PROFESSIONAL LAND SURVEYOR NO. 035-003377  
LICENSE EXPIRATION DATE: 11/30/2020.

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

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

REVISION DATE:

PLAT OF HIGHWAYS  
IL ROUTE 60 AT WILSON ROAD

MADE BY

ADVANCED SURVEYING & MAPPING  
AS  
ASM Consultants, Inc.  
16 E Wilson St, Batavia IL 60510  
Tel (630) 879-0200 Fax (630) 454-3774  
advanced@advct.com  
Professional Design Firm #184-06014 expires 4/30/2021  
ASM PROJECT NO. 777-005

PLAT OF HIGHWAYS  
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION  
IL ROUTE 60

SECTION: IL Rt. 60 at Wilson Rd. LAKE COUNTY  
PROJECT: JOB NO. R-91-033-13  
STATION: 491+81.76 TO STATION: 522+48.53  
SCALE: 1" = 50' SHEET 2 OF 5

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

PART OF THE EAST HALF SE 1/4 OF SECTION 1, TWP. 44 N., R. 9 E. AND THE WEST HALF OF THE SW 1/4 OF SECTION 6, TWP. 44 N., R. 10 E. OF THR 3RD. P.M., LAKE COUNTY, ILLINOIS.

PARCEL NUMBER	TOTAL HOLDINGS ACRES	PART TAKEN ACRES	AREA IN EXISTING R.O.W. ACRES	REMAINDER AREA ACRES	EASEMENT AREA		PARCEL INDEX NUMBER
					ACRES	SQUARE FEET	
1KW0004	84.820	1.670	1.594	83.150			10-06-300-006 (PT) 10-06-100-004
1KW0005	96.270	1.893	1.882	94.377			10-06-300-006 (PT) 10-07-100-002

**LEGEND**

SECTION CORNER: 9 10 16 15  
QUARTER SECTION CORNER: 16 15

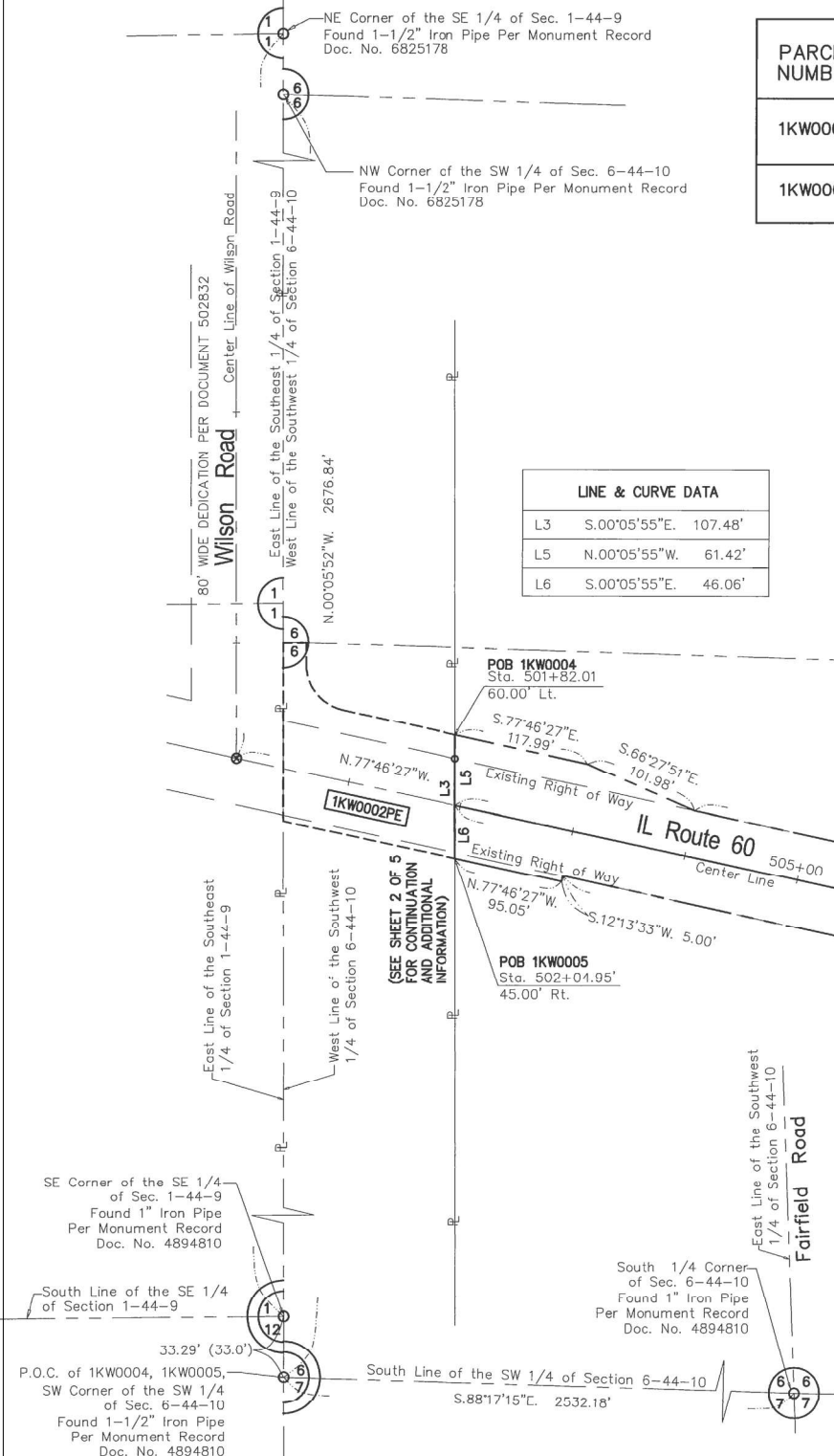
- SECTION / QUARTER SECTION LINE
- PLATTED LOT LINES
- PROPERTY (DEED) LINE
- APPL APPARENT PROPERTY LINE
- EXISTING CENTERLINE
- PROPOSED CENTERLINE
- EXISTING RIGHT OF WAY LINE
- PROPOSED RIGHT OF WAY LINE
- EXISTING EASEMENT
- PROPOSED EASEMENT
- EXISTING ACCESS CONTROL LINE
- AC PROPOSED ACCESS CONTROL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

Scale: 1" = 80'

**LINE & CURVE DATA**

L3	S.00°05'55"E.	107.48'
L5	N.00°05'55"W.	61.42'
L6	S.00°05'55"E.	46.06'

- IRON PIPE OR ROD FOUND
  - + CUT CROSS FOUND OR SET
  - T1 THESE STAKES REFERENCE FOUND OR SET MONUMENTATION.
  - T2 IRON ROD FLUSH WITH GROUND TO THE FOUND IRON STAKE IDENTIFIED BY COLORED PLASTIC CAP BEARING SURVEYORS REGISTRATION NUMBER.
  - T3
  - BT1 THESE STAKES, IN CULTIVATED AREAS, REFERENCE FOUND OR SET MONUMENTATION.
  - BT2 BURIED 5/8 INCH IRON ROD 20 INCHES BELOW GROUND TO THE FOUND IRON STAKE. IDENTIFIED BY COLORED PLASTIC CAP BEARING SURVEYORS REGISTRATION NUMBER.
  - 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
- BEARINGS AND DISTANCES SHOWN HEREON REFERENCE THE ILLINOIS STATE PLANE COORDINATE SYSTEM, EAST ZONE, NORTH AMERICAN DATUM OF 1983 (2011 ADJUSTMENT) "GRID". ALL MEASURED AND CALCULATED DISTANCES ARE "GRID" NOT "GROUND". TO OBTAIN GROUND DISTANCES, DIVIDE GRID DISTANCES SHOWN BY THE COMBINATION FACTOR OF 0.99997849. AREAS SHOWN ON THIS PLAT ARE GROUND. ALL DIMENSIONS ARE MEASURED UNLESS OTHERWISE SPECIFIED.



**COORDINATE TABLE**  
STATE PLANE COORDINATE SYSTEM, EAST ZONE, NAD 83 (2011 ADJUSTMENT)

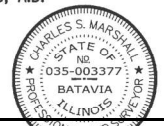
PT.	STATION	OFFSET	NORTH	EAST
27	519+26.64	40.00' Lt.	2057834.101	1043646.233
28	519+26.64	0.00' Rt.	2057795.006	1043637.769
29	522+48.53	40.00' Rt.	2057687.749	1043943.883
30	522+48.53	0.00' Rt.	2057726.842	1043952.354

STATE OF ILLINOIS )  
COUNTY OF KANE )

THIS IS TO CERTIFY THAT WE, ASM CONSULTANTS, INC., AN ILLINOIS PROFESSIONAL DESIGN FIRM LAND SURVEYING CORPORATION, NUMBER 184-6014, HAVE SURVEYED THE PLAT OF HIGHWAYS SHOWN HEREON IN SECTION 1, TOWNSHIP 44 NORTH, RANGE 9 EAST, AND SECTION 6, TOWNSHIP 44 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 PLANO, ILLINOIS THIS DAY OF JANUARY 2019, A.D.

ILLINOIS PROFESSIONAL LAND SURVEYOR NO. 035-003377  
LICENSE EXPIRATION DATE: 11/30/2020.



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

**ADVANCED SURVEYING & MAPPING**  
AS  
ASM Consultants, Inc.  
16 E Wilson St, Batavia IL 60510  
Tel (630) 879-0200 Fax (630) 454-3774  
advanced@advct.com  
Professional Design Firm #184-006014 expires 4/30/2021  
ASM PROJECT NO. 777-005

RECEIVED  
SEP 19 2019  
PLATS & LEGALS

**PLAT OF HIGHWAYS**  
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION  
IL. ROUTE 60

SECTION: IL. Rt. 60 at Wilson Rd. LAKE COUNTY  
PROJECT: JOB NO. R-91-033-13  
STATION: 491+81.76 TO STATION: 522+48.53  
SCALE: 1" = 50' SHEET 3 OF 5

**STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION**  
IL ROUTE 60 AT WILSON ROAD  
BUREAU OF LAND ACQUISITION  
201 WEST CENTER COURT  
SCHAUMBURG, ILLINOIS 60196



PART OF THE EAST HALF SE 1/4 OF SECTION 1, TWP. 44 N., R. 9 E. AND THE WEST HALF OF THE SW 1/4 OF SECTION 6, TWP. 44 N., R. 10 E. OF THE 3RD. P.M., LAKE COUNTY, ILLINOIS.

**LEGEND**

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

0 300 600  
SCALE: 1" = 300'

BEARINGS AND DISTANCES SHOWN HEREON REFERENCE THE ILLINOIS STATE PLANE COORDINATE SYSTEM, EAST ZONE, NORTH AMERICAN DATUM OF 1983 (2011 ADJUSTMENT) "GRID". ALL MEASURED AND CALCULATED DISTANCES ARE "GRID" NOT "GROUND". TO OBTAIN GROUND DISTANCES, DIVIDE GRID DISTANCES SHOWN BY THE COMBINATION FACTOR OF 0.99997849. AREAS SHOWN ON THIS PLAT ARE GROUND. ALL DIMENSIONS ARE MEASURED UNLESS OTHERWISE SPECIFIED.

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

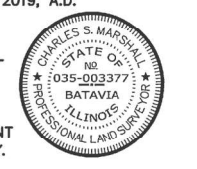
STATE OF ILLINOIS )  
COUNTY OF KANE ) SS

THIS IS TO CERTIFY THAT WE, ASM CONSULTANTS, INC., AN ILLINOIS PROFESSIONAL DESIGN FIRM LAND SURVEYING CORPORATION, NUMBER 184-6014, HAVE SURVEYED THE PLAT OF HIGHWAYS SHOWN HEREON IN SECTION 1, TOWNSHIP 44 NORTH, RANGE 9 EAST, AND SECTION 6, TOWNSHIP 44 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 BATAVIA, ILLINOIS THIS DAY OF JANUARY 2019, A.D.

ILLINOIS PROFESSIONAL LAND SURVEYOR NO. 35-3377  
LICENSE EXPIRATION DATE: 11/30/2020.

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



**ADVANCED SURVEYING & MAPPING**

**ASMC**

ASM Consultants, Inc.  
16 E Wilson St, Batavia IL 60510  
Tel (630) 879-0200 Fax (630) 454-3774  
advanced@advct.com  
Professional Design Firm #184-006014 expires 4/30/2021

ASM PROJECT NO. 777-005

**PLAT OF HIGHWAYS**  
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION  
IL ROUTE 60

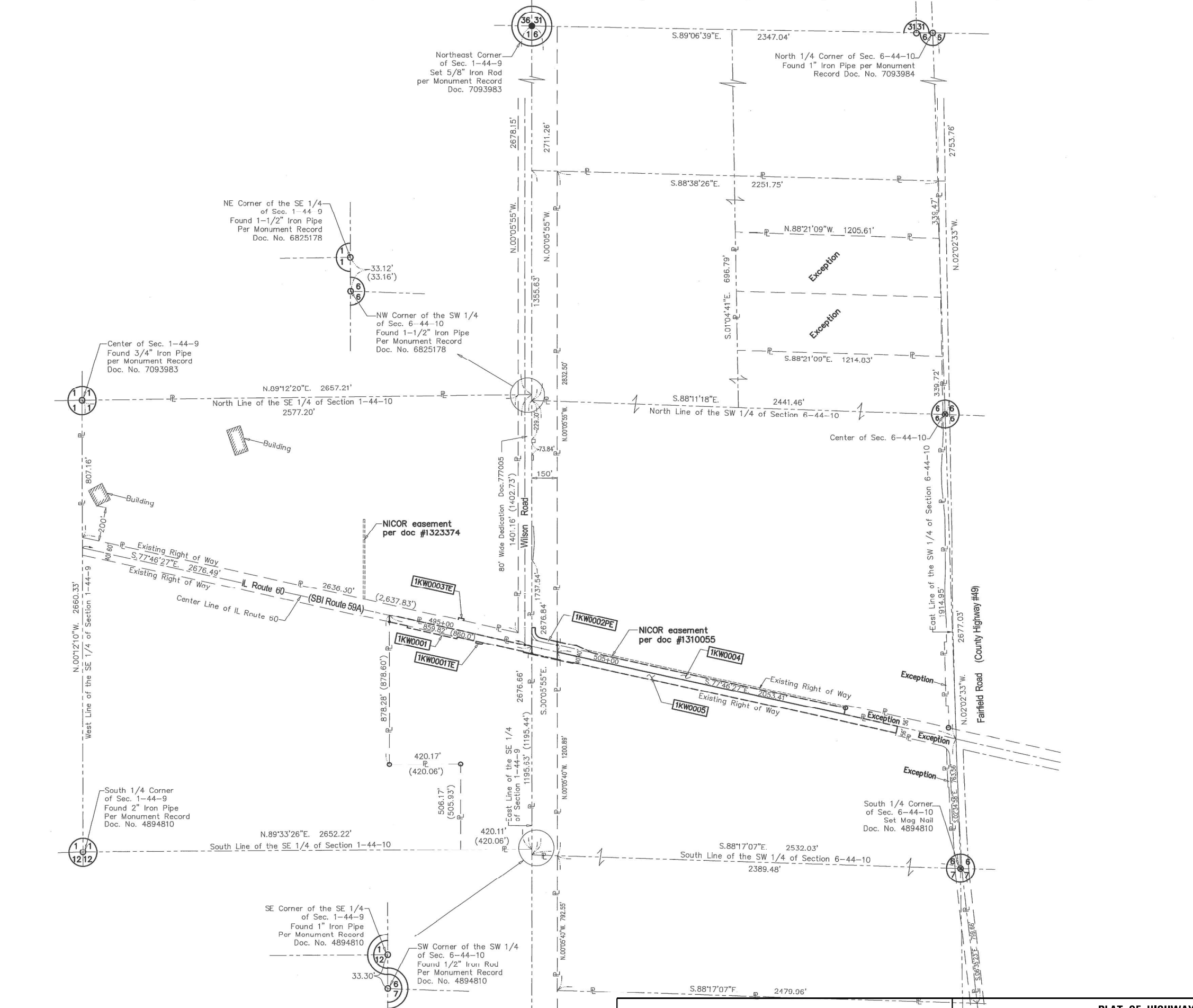
SECTION: IL Rt. 60 at Wilson Rd. LAKE COUNTY  
PROJECT: JOB NO. R-91-033-13  
STATION: 491+81.76 TO STATION: 522+48.53  
SCALE: 1" = 50' SHEET 4 OF 5

RECEIVED

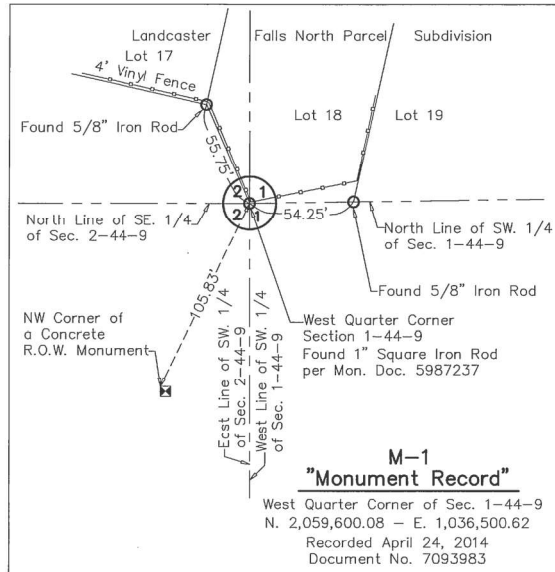
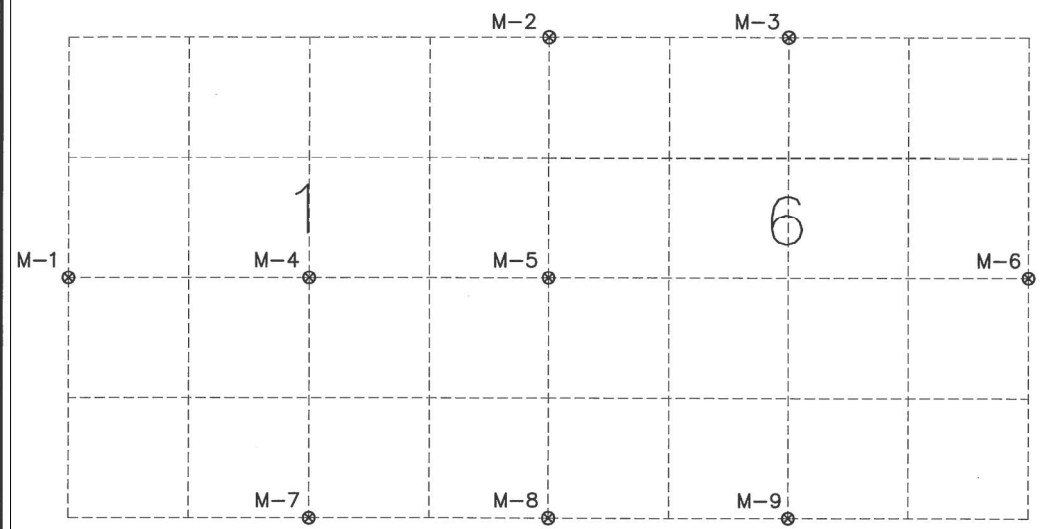
PLAT OF HIGHWAYS JUN 13 2019  
IL ROUTE 60 AT WILSON ROAD  
PLATS & LEGALS  
MADE BY

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION  
REVISION DATE:

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



PART OF THE EAST HALF SE 1/4 OF SECTION 1, TWP. 44 N., R. 9 E. AND THE WEST HALF OF THE SW 1/4 OF SECTION 6, TWP. 44 N., R. 10 E. OF THR 3RD. P.M., LAKE COUNTY, ILLINOIS.



**LEGEND**

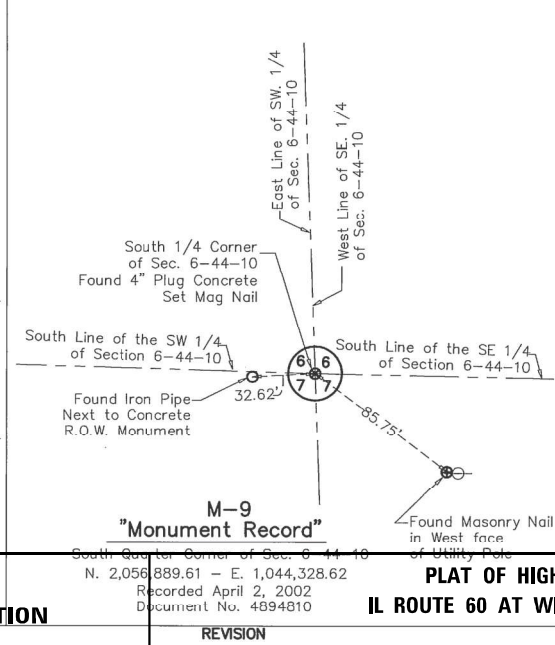
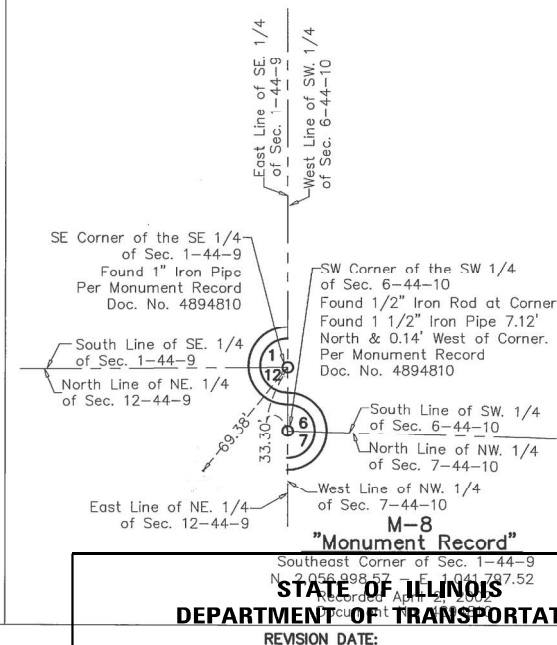
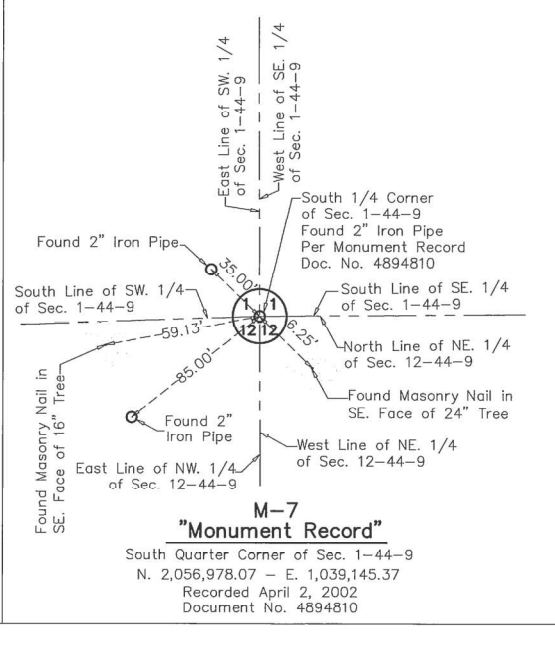
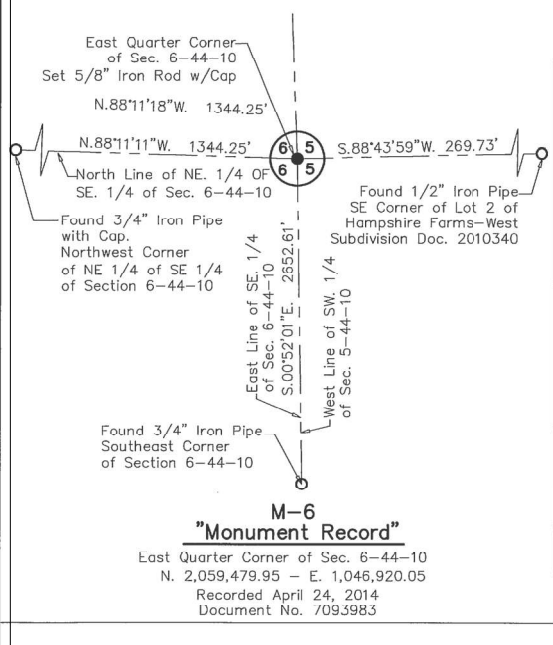
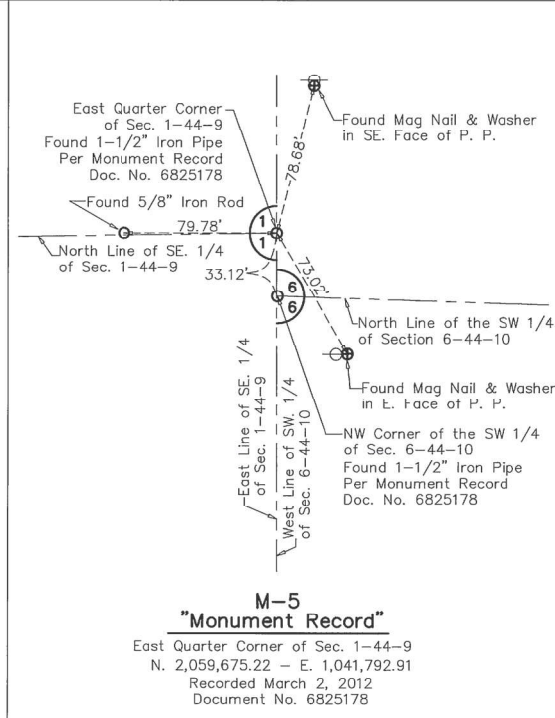
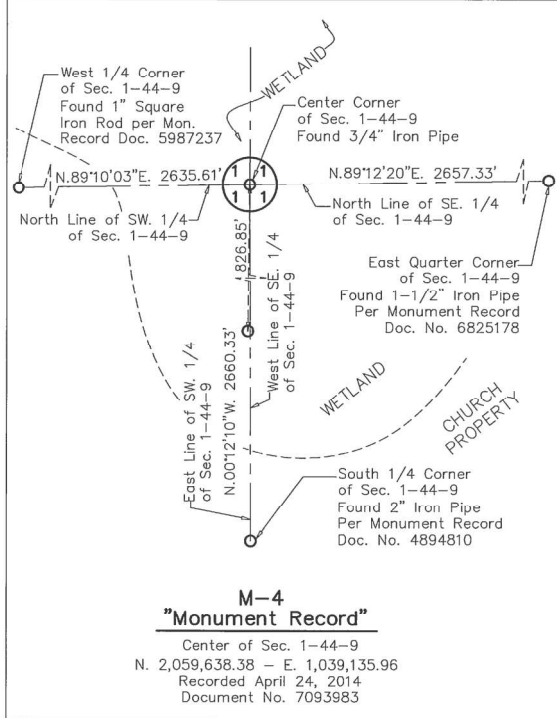
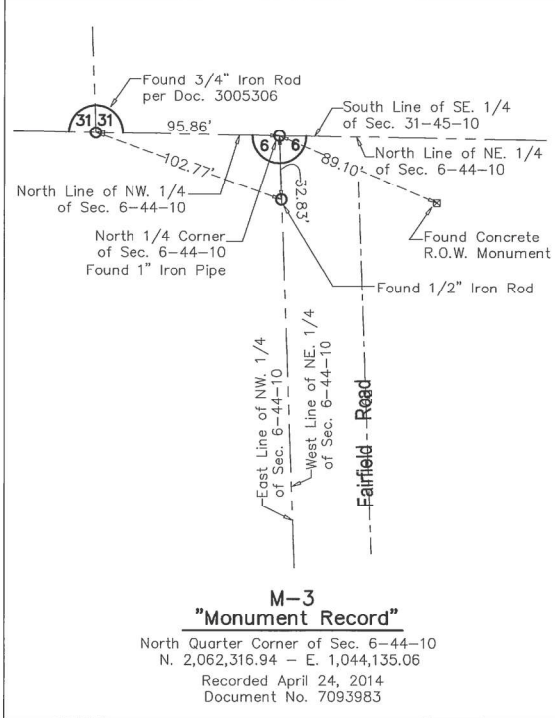
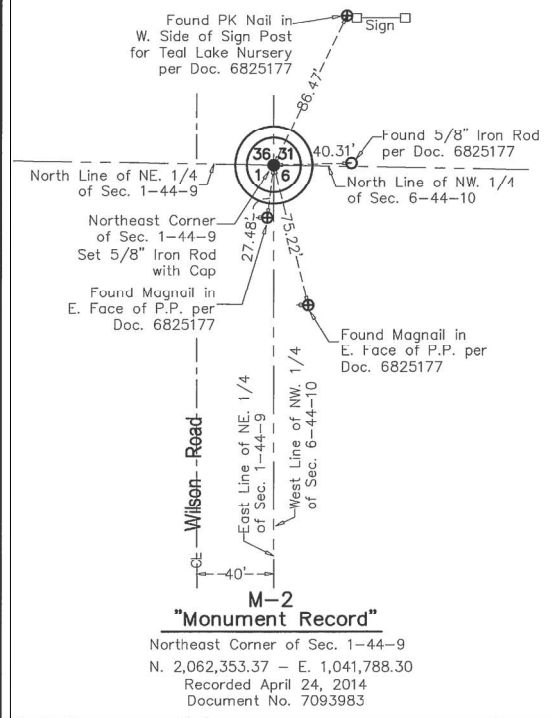
- SECTION CORNER
- QUARTER SECTION CORNER
- SECTION / QUARTER SECTION LINE
- PLATTED LOT LINES
- PROPERTY (DEED) LINE
- APL APPARENT PROPERTY LINE
- EXISTING CENTERLINE
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- MEASURED DIMENSION
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- EXISTING BUILDING

IRON PIPE OR ROD FOUND  
 CUT CROSS FOUND OR SET  
 T1 THESE STAKES REFERENCE FOUND OR SET MONUMENTATION. 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  
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 ○ 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 KANE )

THIS IS TO CERTIFY THAT WE, ASM CONSULTANTS, INC., AN ILLINOIS PROFESSIONAL DESIGN FIRM LAND SURVEYING CORPORATION, NUMBER 184-6014, HAVE SURVEYED THE PLAT OF HIGHWAYS SHOWN HEREON IN SECTION 1, TOWNSHIP 44 NORTH, RANGE 9 EAST, AND SECTION 6, TOWNSHIP 44 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 PLANO, ILLINOIS THIS DAY OF JANUARY 2019, A.D.



ILLINOIS PROFESSIONAL LAND SURVEYOR NO. 035-003377  
 LICENSE EXPIRATION DATE: 11/30/2020.

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

ADVANCED SURVEYING & MAPPING  
 ASM CONSULTANTS, INC.  
 16 E Wilson St, Batavia IL 60510  
 Tel (630) 879-0200 Fax (630) 454-3774  
 advanced@advct.com  
 Professional Design Firm #184-006014 expires 4/30/2021

ASM PROJECT NO. 777-005

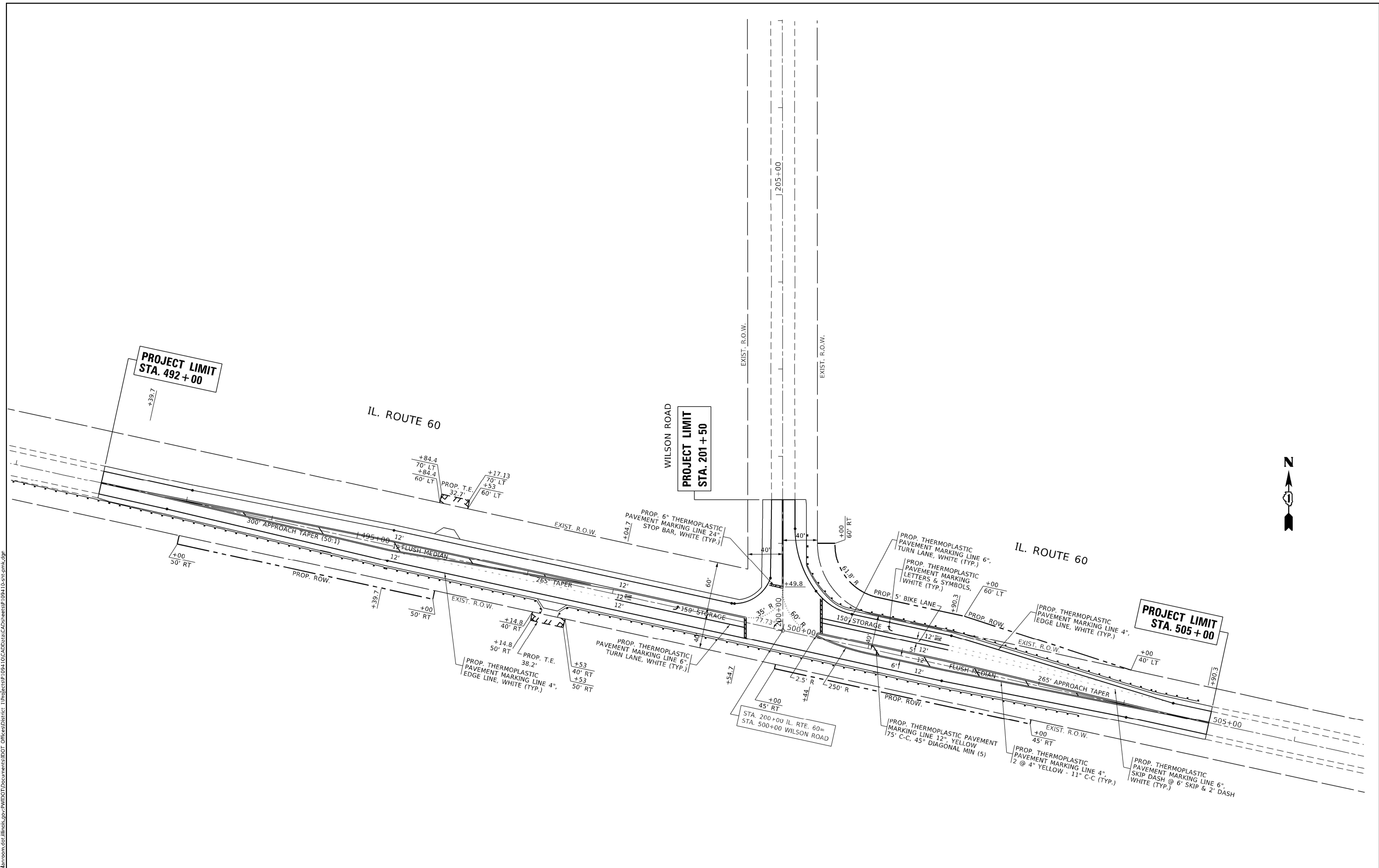
**PLAT OF HIGHWAYS**  
 STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION  
 IL ROUTE 60

SECTION: IL Rt. 60 at Wilson Rd. LAKE COUNTY  
 PROJECT: JOB NO. R-91-033-13  
 STATION: 491+81.76 TO STATION: 522+48.53  
 SCALE: 1" = 50' SHEET 5 OF 5

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

RECEIVED JUN 13 2019  
 PLATS & LEGALS  
 MADE BY

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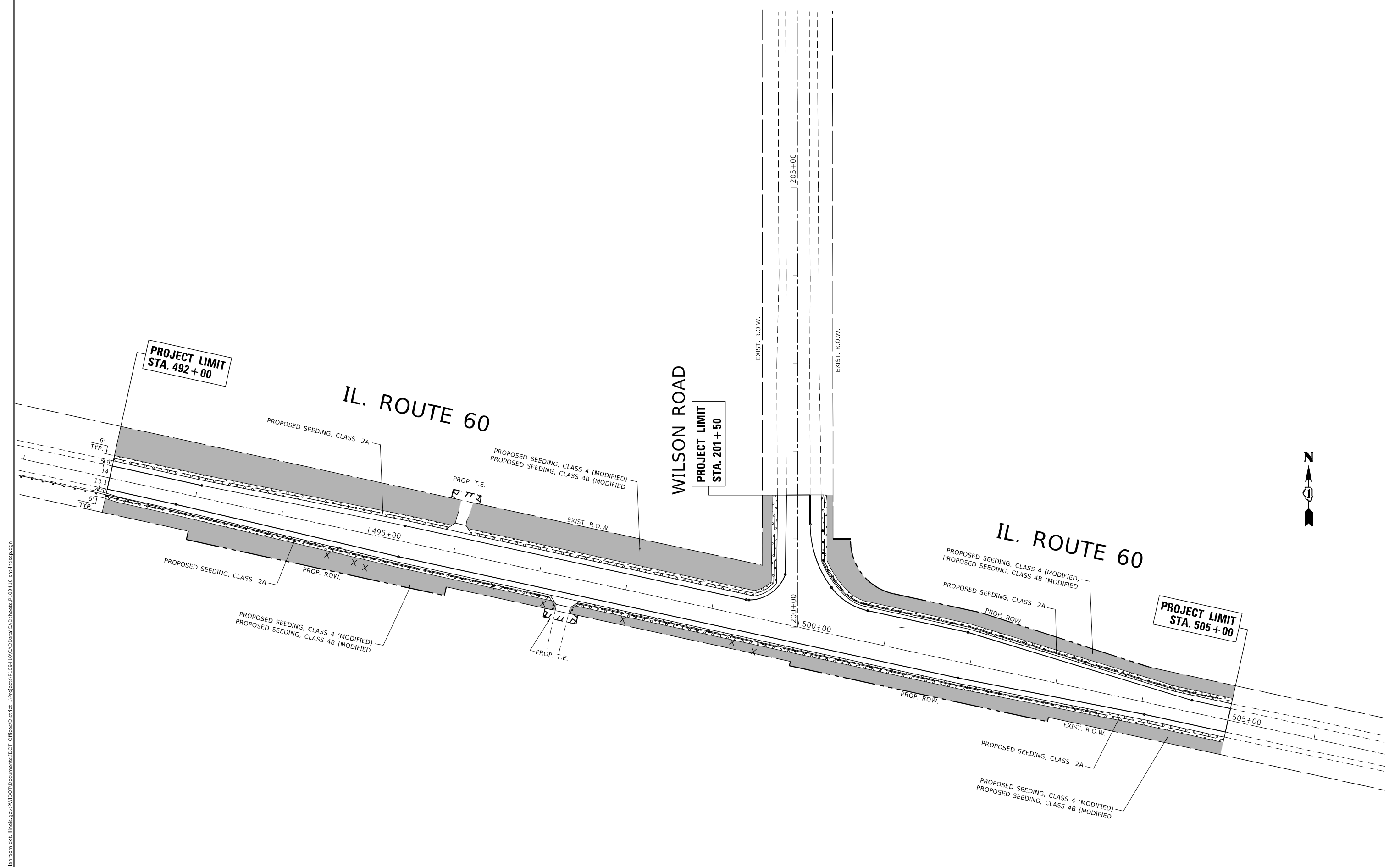
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	DRAWN -	REVISED -
PLOT SCALE = 100.0000' / in.	CHECKED -	REVISED -
PLOT DATE = 5/13/2021	DATE -	REVISED -

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

<b>PROPOSED PAVEMENT MARKING PLAN          IL. ROUTE 60 (AT WILSON ROAD)</b>			
SCALE: 1"=50'	SHEET	OF SHEETS	STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
535	118N-2	LAKE	57	25
CONTRACT NO. 60X57				
ILLINOIS FED. AID PROJECT				

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PROJECT LIMIT  
STA. 492+00

WILSON ROAD  
PROJECT LIMIT  
STA. 201+50

PROJECT LIMIT  
STA. 505+00



USER NAME = gagliarobc	DESIGNED -	REVISED -
DRAWN -	REVISED -	
PLOT SCALE = 100,0000' / in.	CHECKED -	REVISED -
PLOT DATE = 6/17/2021	DATE -	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

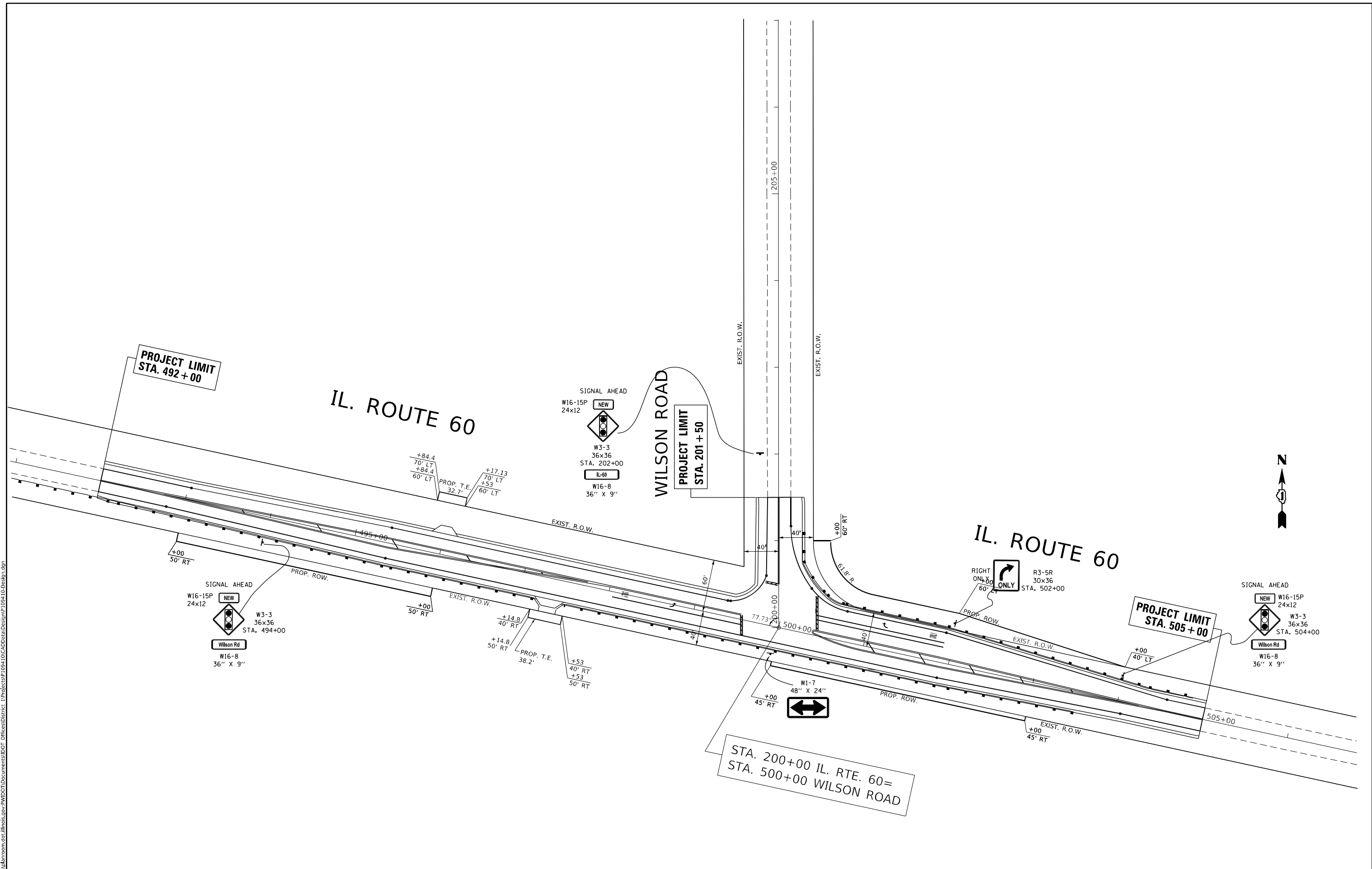
PROPOSED LANDSCAPING PLAN  
IL. ROUTE 60 (AT WILSON ROAD)

SCALE: 1"=50'

SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
535	118N-2	LAKE	1	1
CONTRACT NO. 60X57				
ILLINOIS FED. AID PROJECT				

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 USER: gquillamefp  
 DATE: 6/17/2021



STA. 200+00 IL. RTE. 60=  
 STA. 500+00 WILSON ROAD

USER NAME = gquillamefp	DESIGNED - _____	REVISED - _____
DRAWN - _____	REVISOR - _____	REVISOR - _____
PLOT SCALE = 100,0000' / in.	CHECKED - _____	REVISOR - _____
PLOT DATE = 6/17/2021	DATE - _____	REVISOR - _____

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

<b>SIGNING PLAN</b> <b>IL. ROUTE 60 (AT WILSON ROAD)</b>	
SCALE: 1"=50'	SHEET ____ OF ____ SHEETS
STA. _____	TO STA. _____

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
535	118N-2	LAKE	57	27
CONTRACT NO. 60X57				
ILLINOIS FED. AID PROJECT				



# TRAFFIC SIGNAL LEGEND

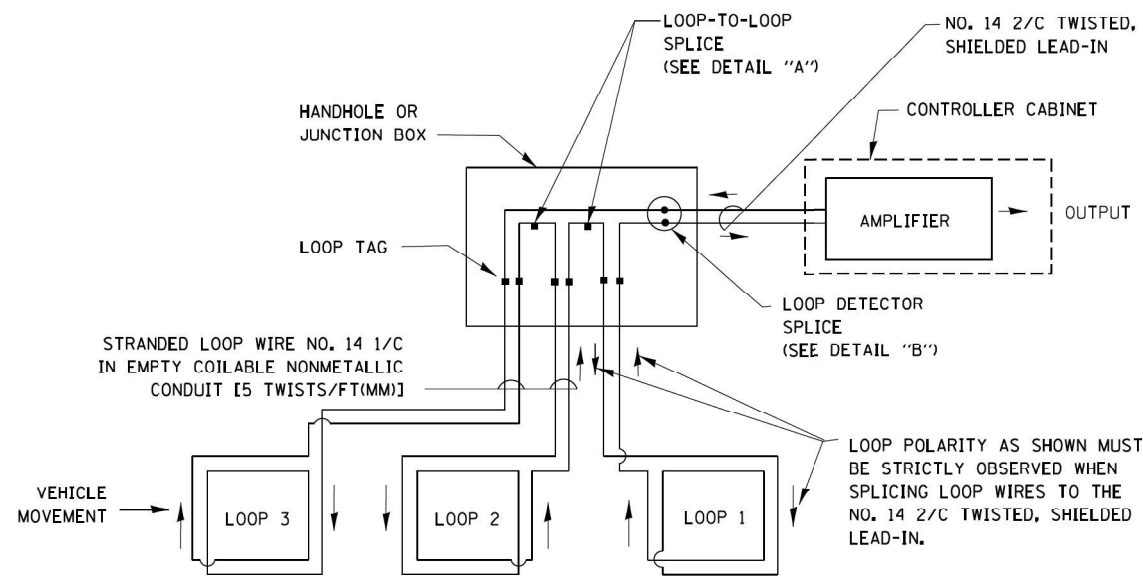
(NOT TO SCALE)

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

TS SHT NO. 02

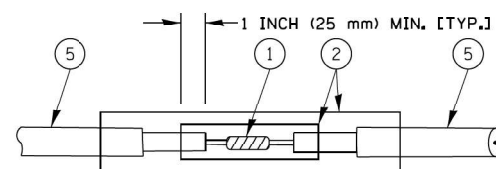
**LOOP DETECTOR NOTES**

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.

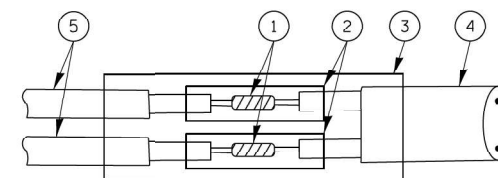


**DETECTOR LOOP WIRING SCHEMATIC**

- 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.



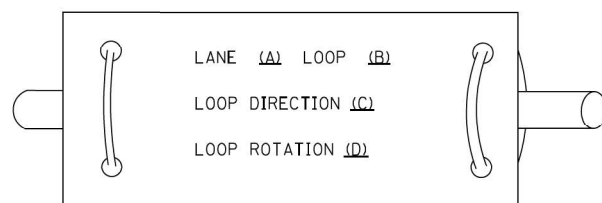
DETAIL "A"  
LOOP-TO-LOOP SPLICE



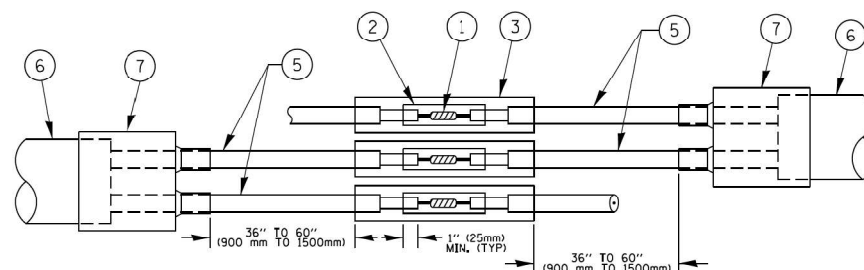
DETAIL "B"  
LOOP-TO-CONTROLLER SPLICE

**TYPE I LOOP**

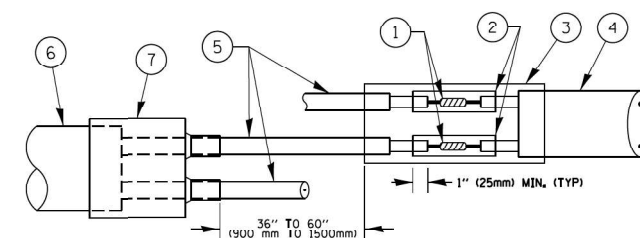
**LOOP LEAD-IN CABLE TAG**



- 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.



DETAIL "A"  
LOOP-TO-LOOP SPLICE



DETAIL "B"  
LOOP-TO-CONTROLLER SPLICE

**PREFORMED LOOP**

**LOOP DETECTOR SPLICE**

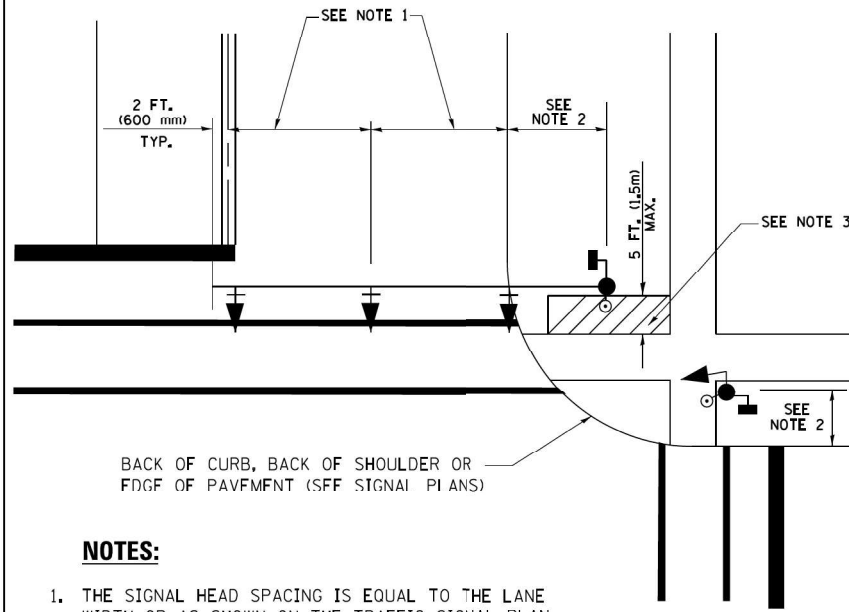
- ① WESTERN UNION SPLICE SOLDERED WITH ROSIN CORE FLUX. ALL EXPOSED SURFACES OF THE SOLDER SHALL BE SMOOTH. THE WESTERN UNION SPLICES SHALL BE STAGGERED.
- ② WCSMW 30/100 HEAT SHRINK TUBE, MINIMUM LENGTH 3" (75 mm), UNDERWATER GRADE.
- ③ WCS 200/750 HEAT SHRINK TUBE, MINIMUM LENGTH 6" (150 mm), UNDERWATER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

TS SHT NO. 03

FILE NAME =	USER NAME = footej	DESIGNED - DAD	REVISED - DAG 1-1-14	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>DISTRICT ONE STANDARD TRAFFIC SIGNAL DESIGN DETAILS</b>			F.A. RTE. = 535	SECTION = 118N-2	COUNTY = LAKE	TOTAL SHEETS = 57	SHEET NO. = 30
ca:\pwork\pwork\footej\0108315\ts05.dgn		DRAWN - BCK	REVISED -		SCALE: NONE	SHEET NO. 2 OF 7 SHEETS	STA. TO STA.	<b>TS-05</b>		CONTRACT NO. 60X57		
		CHECKED - DAD	REVISED -		FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT							
		DATE - 10-28-09	REVISED -									



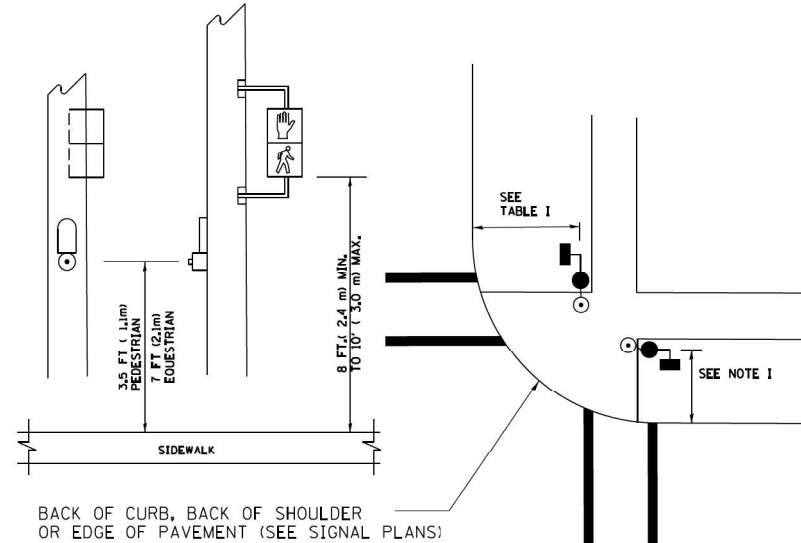
**TRAFFIC SIGNAL MAST ARM AND SIGNAL POST  
MAST ARM MOUNTED SIGNALS IN EXISTING, PROPOSED OR  
FUTURE SIDEWALK/BICYCLE PATH AREA. INTERSECTION SHOWN  
WITH PEDESTRIAN SIGNALS AND PEDESTRIAN PUSHBUTTON DETECTORS.**



**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."

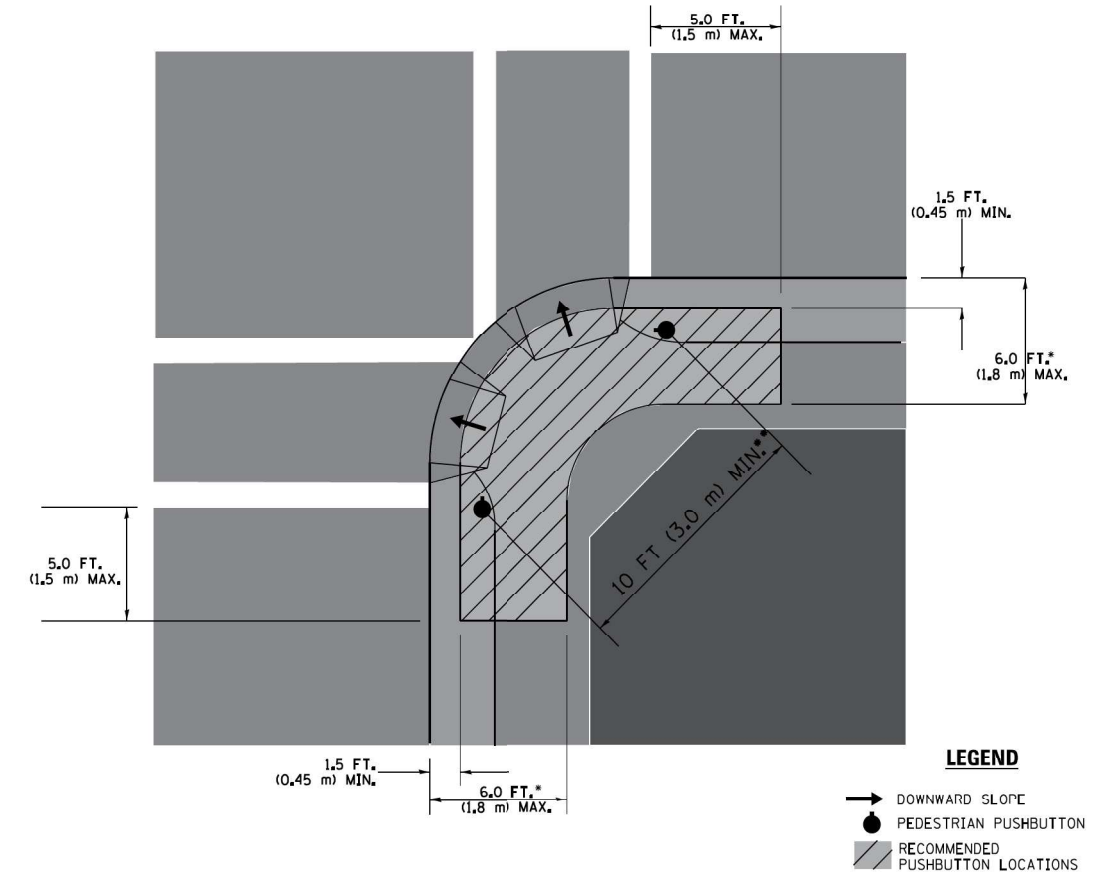
**PEDESTRIAN SIGNAL POST  
AND  
PEDESTRIAN PUSH BUTTON POST**



**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**

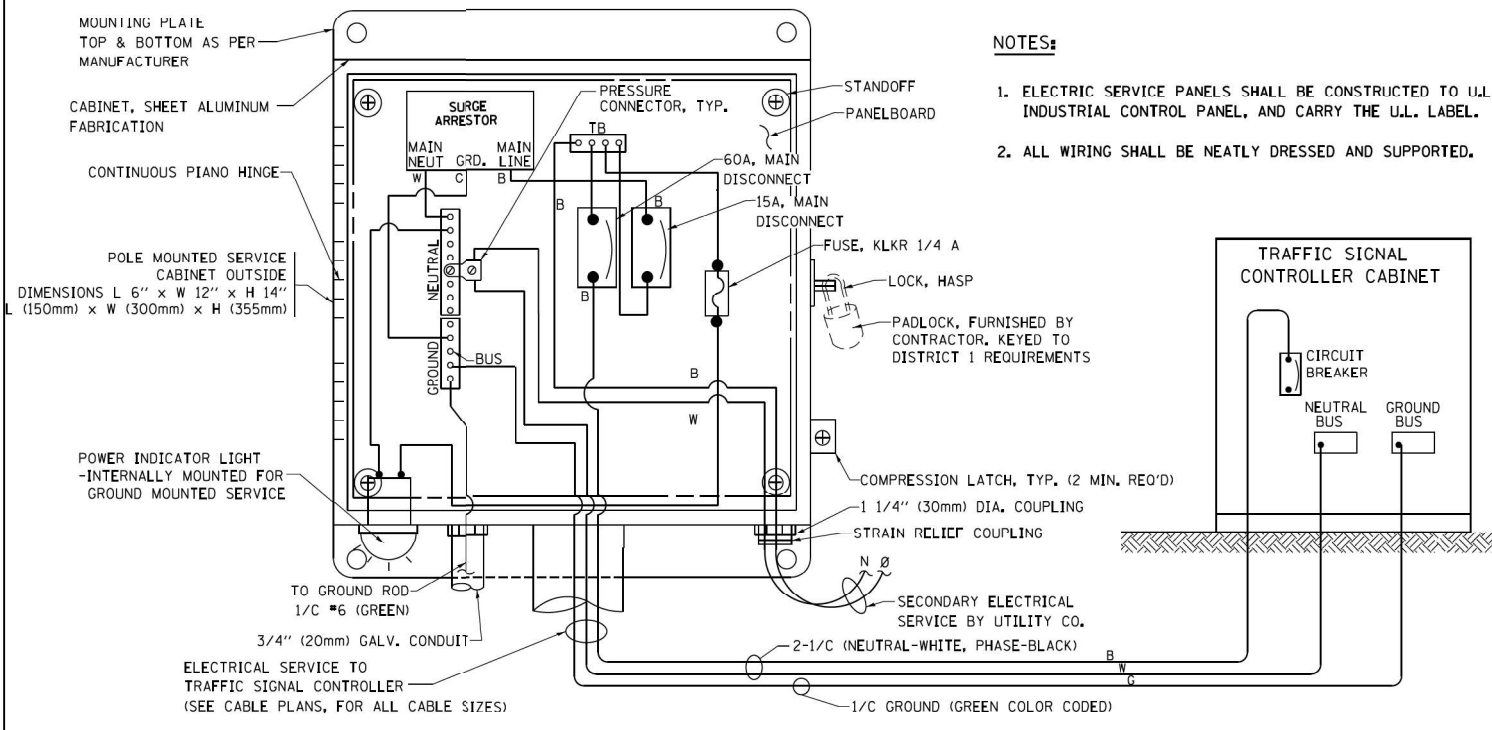
TRAFFIC SIGNAL EQUIPMENT	COMBINATION CONCRETE CURB AND GUTTER (MINIMUM DISTANCE FROM BACK OF CURB TO CENTERLINE OF FOUNDATION)	SHOULDER/NON-CURBED AREA (MINIMUM DISTANCE FROM EDGE OF PAVEMENT TO CENTERLINE OF FOUNDATION)
TRAFFIC SIGNAL MAST ARM POLE	6 FT (1.8m)	SHOULDER WIDTH + 2 FT (0.6m), MINIMUM 10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

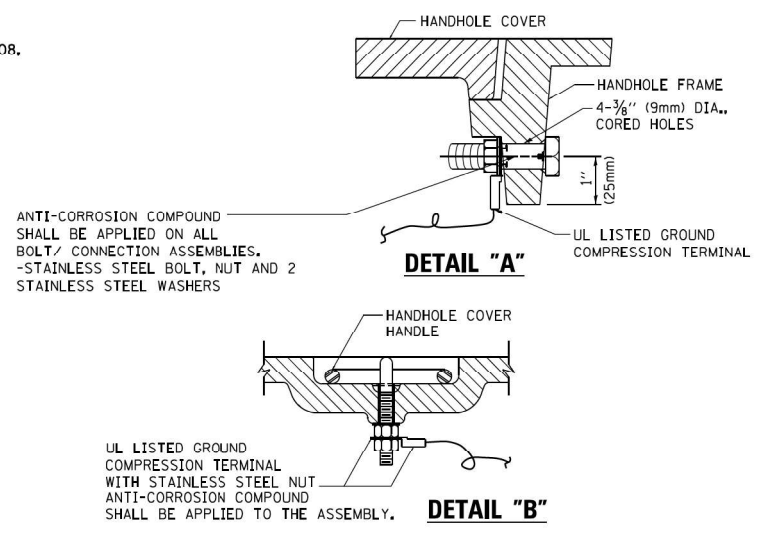
1. CONTACT THE "AREA TRAFFIC SIGNAL MAINTENANCE AND OPERATIONS ENGINEER" FOR ASSISTANCE IN LOCATING THE TRAFFIC SIGNAL EQUIPMENT WHEN THERE ARE CONFLICTS WITH DITCHES OR THE MINIMUM OFFSET DISTANCES CANNOT BE MET.
2. MINIMUM DISTANCE FROM THE BACK OF CURB TO THE ROADWAY SIDE OF THE FOUNDATION.
3. MINIMUM 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.

TS SHT NO. 04

FILE NAME =	USER NAME = footenj	DESIGNED - DAD	REVISED - DAG 1-1-14	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>DISTRICT ONE STANDARD TRAFFIC SIGNAL DESIGN DETAILS</b>	F.A. RTE. =	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
ca:\p\work\p\dot\footenj\00108315\ts05.dgn	DRAWN - BCK	REVISED -	535			118N-2	LAKE	57	31	
PLOT SCALE = 50.0000' / in.	CHECKED - DAD	REVISED -	<b>TS-05</b>			CONTRACT NO. 60X57				
PLOT DATE = 1/13/2014	DATE - 10-28-09	REVISED -	FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT							
				SCALE: NONE	SHEET NO. 3 OF 7 SHEETS	STA.	TO STA.			

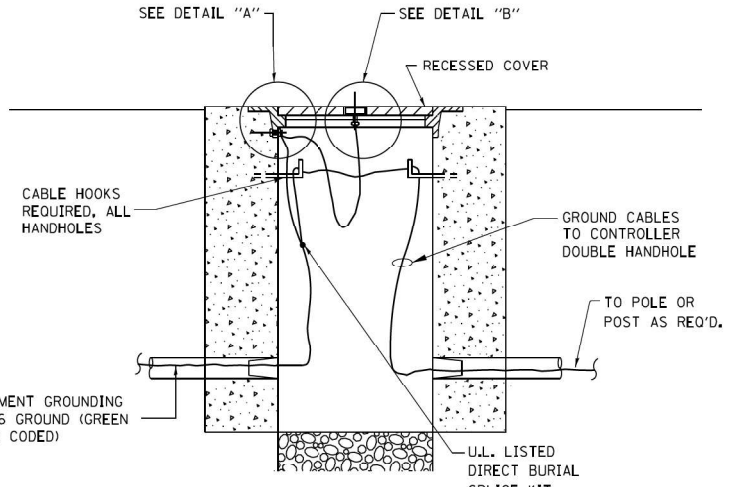


**ELECTRICAL SERVICE – PANEL DIAGRAM (TYPICAL FOR POLE AND GROUND MOUNTED SERVICE) SERVICE INSTALLATION POLE MOUNT (SHOWN) (NOT TO SCALE)**

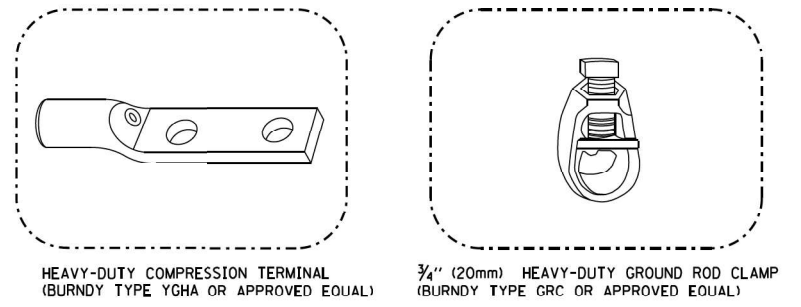


**NOTES:**  
**GROUNDING SYSTEM**

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

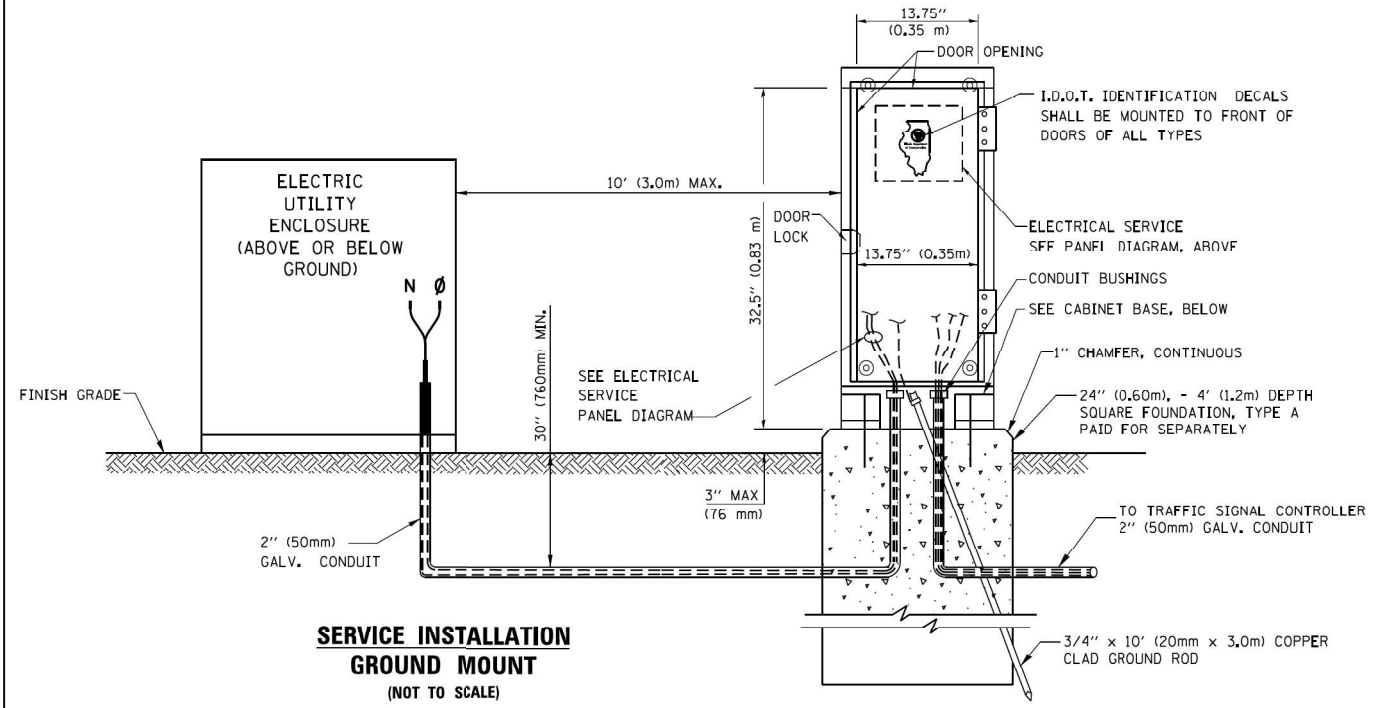


**HANDHOLE COVER & FRAME – GROUNDING DETAIL (NOT TO SCALE)**

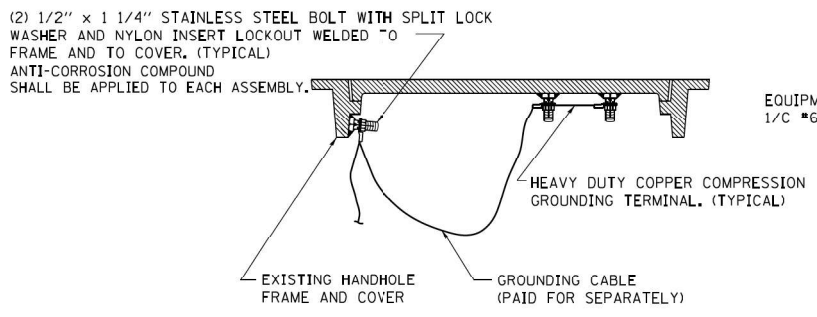


**NOTES:**

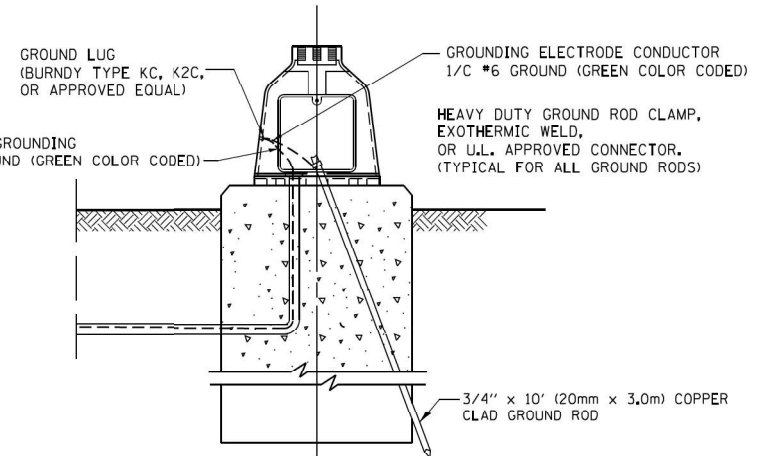
- ALL CLAMPS SHALL BE BRONZE OR COPPER, U.L. APPROVED.
- GROUND CABLE SHALL BE LOOPED OVER HOOKS IN THE HANDHOLES. 6.5' (2.0m) SLACK SHALL BE PROVIDED IN SINGLE HANDHOLES. 13' (4.0m) OF SLACK SHALL BE PROVIDED IN DOUBLE HANDHOLES. 5' (1.4m) OF SLACK SHALL BE PROVIDED BETWEEN FRAME AND COVER.



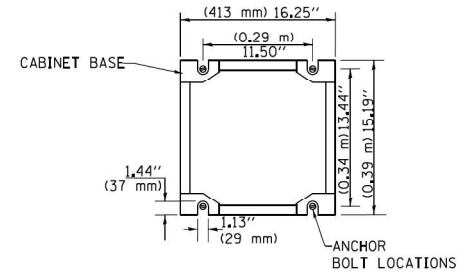
**SERVICE INSTALLATION GROUND MOUNT (NOT TO SCALE)**



**EXISTING HANDHOLE COVER & FRAME – GROUNDING DETAIL (NOT TO SCALE)**



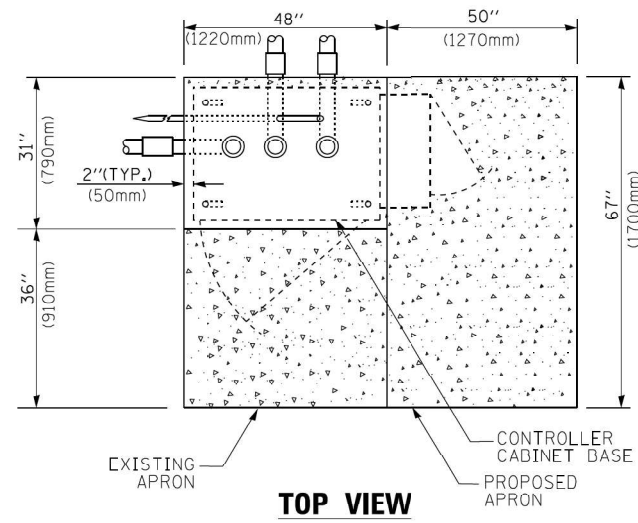
**MAST ARM POLE / POST-GROUNDING DETAIL (NOT TO SCALE)**



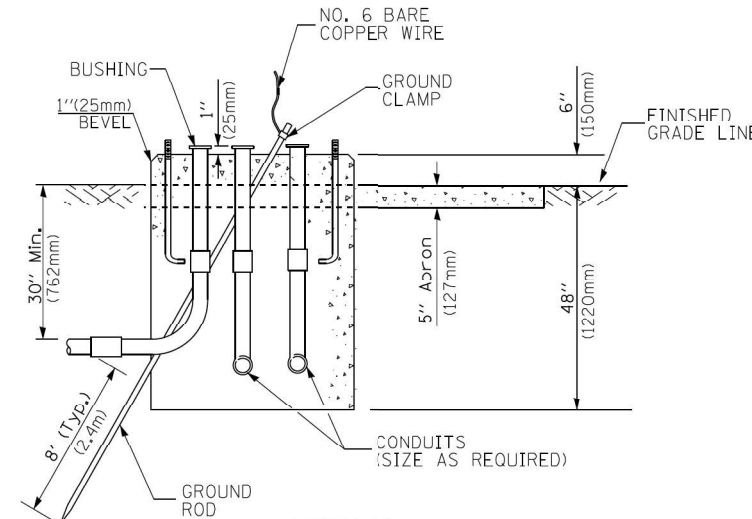
**CABINET – BASE BOLT PATTERN (NOT TO SCALE)**

TS SHT NO. 05

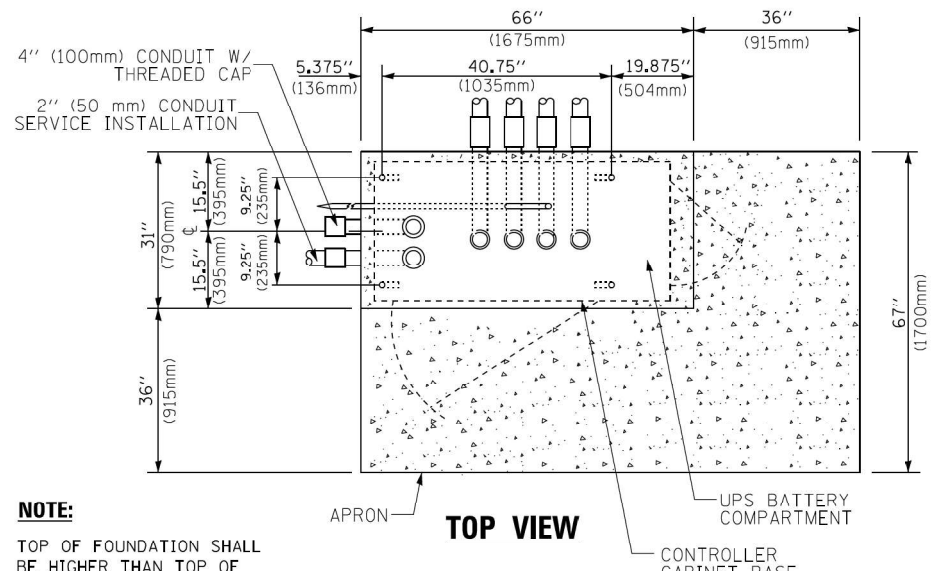
FILE NAME =	USER NAME = footen.j	DESIGNED - DAD	REVISED - DAG 1-1-14	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>DISTRICT ONE STANDARD TRAFFIC SIGNAL DESIGN DETAILS</b>			F.A. RTE. = 535	SECTION = 118N-2	COUNTY = LAKE	TOTAL SHEETS = 57	SHEET NO. = 32
DRAWN - BCK	CHECKED - DAD	DATE - 10-28-09	REVISED -		SCALE: NONE	SHEET NO. 4 OF 7 SHEETS	STA. TO STA.	<b>TS-05</b>		CONTRACT NO. 60X57		
PLOT SCALE = 50.0000' / in.					FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT							
PLOT DATE = 1/13/2014												



**TOP VIEW**

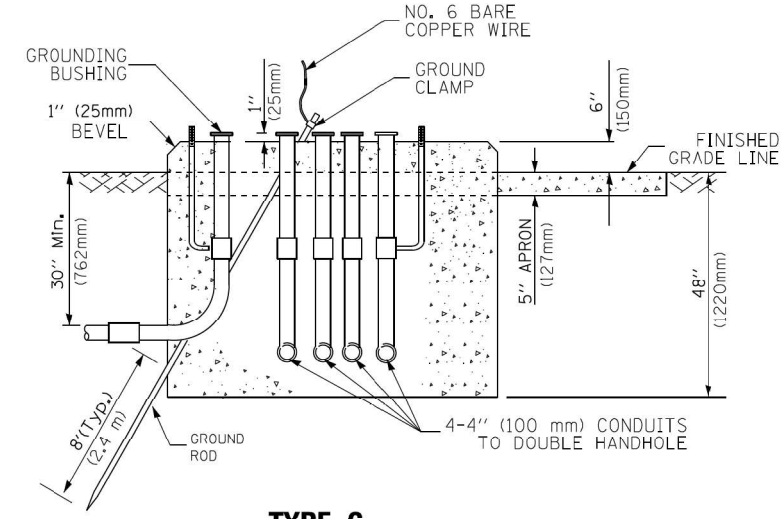


**TYPE D  
FOR GROUND MOUNTED  
CONTROLLER CABINET  
AND UPS BATTERY CABINET**

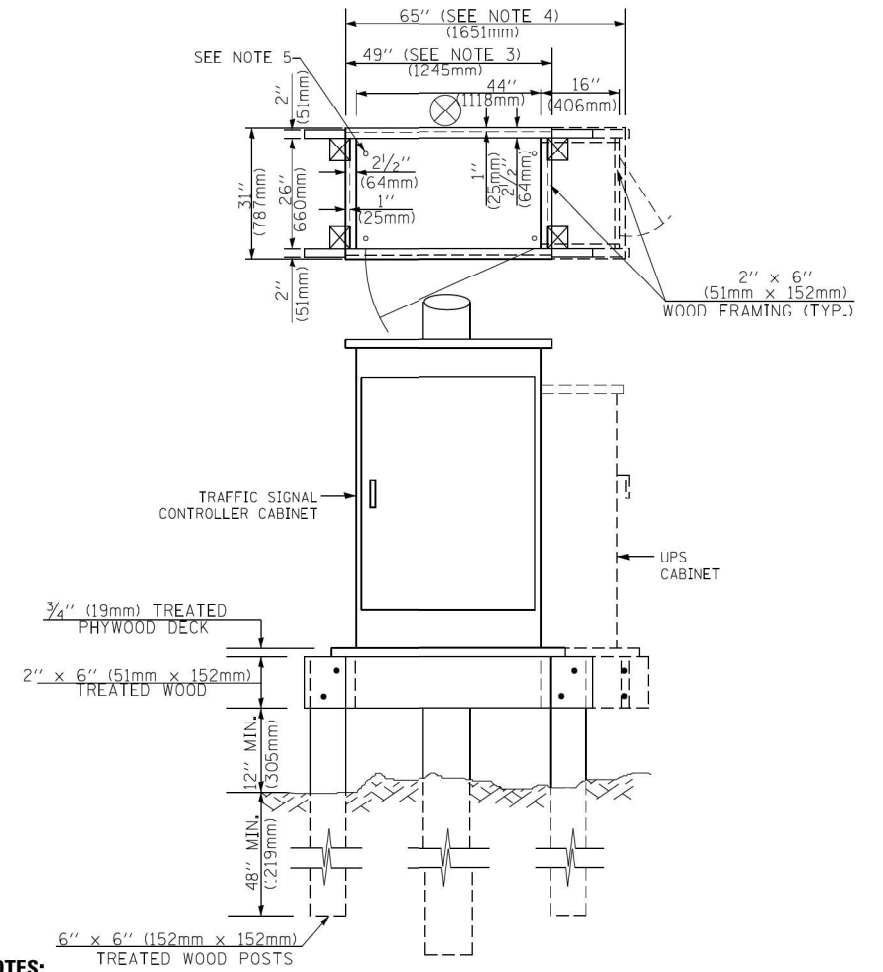


**TOP VIEW**

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



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



**NOTES:**

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

**TEMPORARY SIGNAL CONTROLLER  
WOOD SUPPORT PLATFORM**

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

**CABLE SLACK**

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

**VERTICAL CABLE LENGTH**

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

**DEPTH OF FOUNDATION**

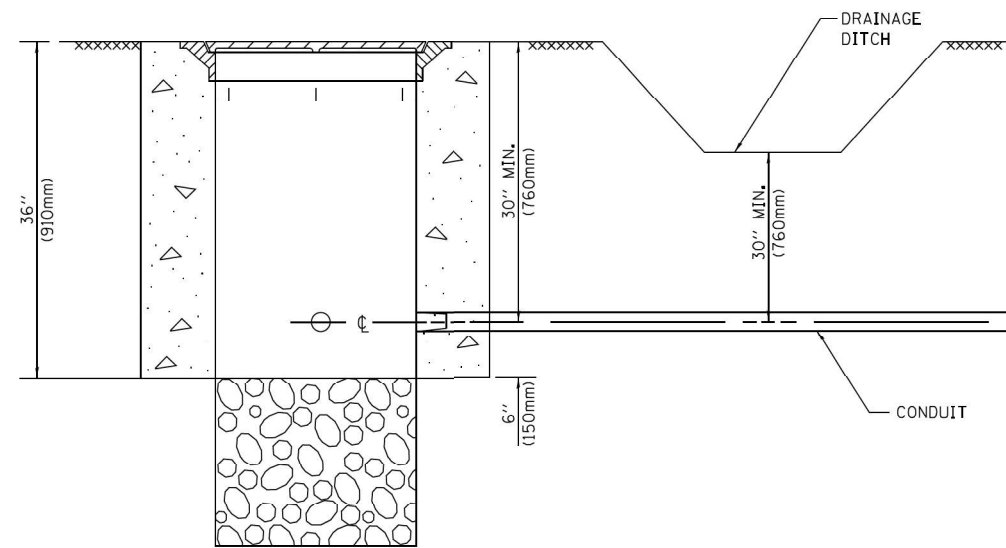
MAST ARM LENGTH	① FOUNDATION DEPTH	FOUNDATION DIAMETER	SPIRAL DIAMETER	QUANTITY OF REBARS	SIZE OF REBARS
Less than 30' (9.1 m)	10'-0" (3.0 m)	30" (750mm)	24" (600mm)	8	6(19)
Greater than or equal to 30' (9.1 m) and less than 40' (12.2 m)	13'-6" (4.1 m)	30" (750mm)	24" (600mm)	8	6(19)
Greater than or equal to 40' (12.2 m) and less than 50' (15.2 m)	11'-0" (3.4 m)	36" (900mm)	30" (750mm)	12	7(22)
Greater than or equal to 50' (15.2 m) and up to 55' (16.8 m)	13'-0" (4.0 m)	36" (900mm)	30" (750mm)	12	7(22)
Greater than or equal to 56' (16.8 m) and less than 65' (19.8 m)	15'-0" (4.6 m)	42" (1060mm)	36" (900mm)	16	8(25)
Greater than or equal to 65' (19.8 m) and up to 75' (22.9 m)	21'-0" (6.4 m)	42" (1060mm)	36" (900mm)	16	8(25)

**NOTES:**

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

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

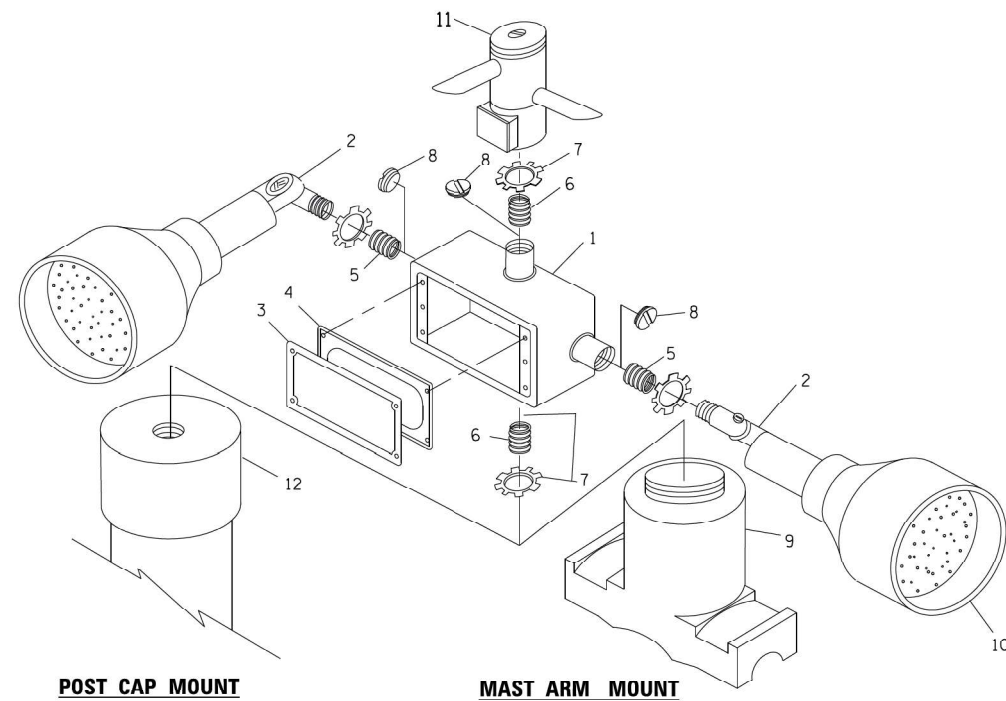
TS SHT NO. 06



**NOTES:**

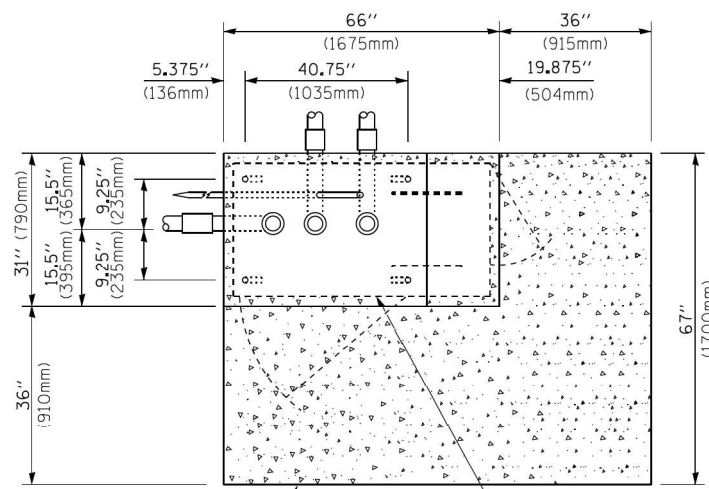
1. CONDUIT DEPTH SHALL BE A MINIMUM OF 30" (760mm) BELOW THE BOTTOM OF THE DRAINAGE DITCH OR ANY SLOPING GROUND
2. THE MINIMUM CONDUIT DEPTH APPLIES TO ALL CONDUIT PLACED UNDER ROADWAY PAVEMENT, MULTI-USE PATHS, SIDEWALKS AND SOIL SURFACES.
3. THE MINIMUM CONDUIT DEPTH APPLIES TO ALL HANDHOLES, HEAVY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

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

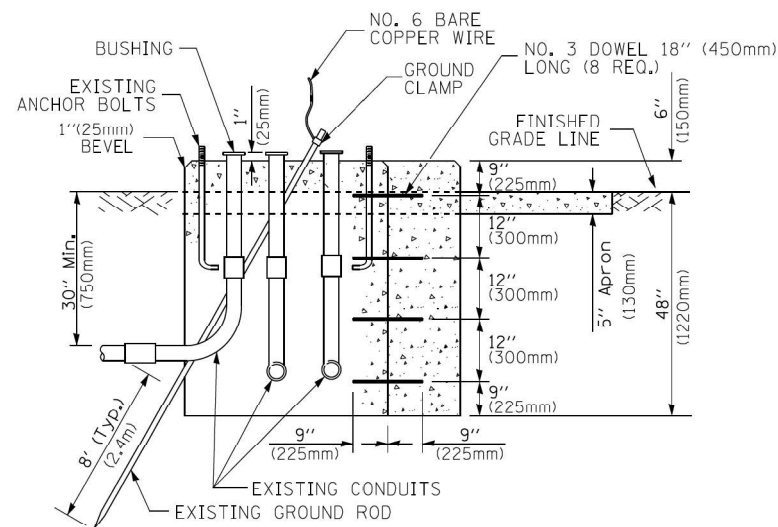


**EMERGENCY VEHICLE DETECTOR WITH CONFIRMATION BEACON MOUNTING DETAIL**

TS SHT NO. 07



**TOP VIEW**  
(NOT TO SCALE)

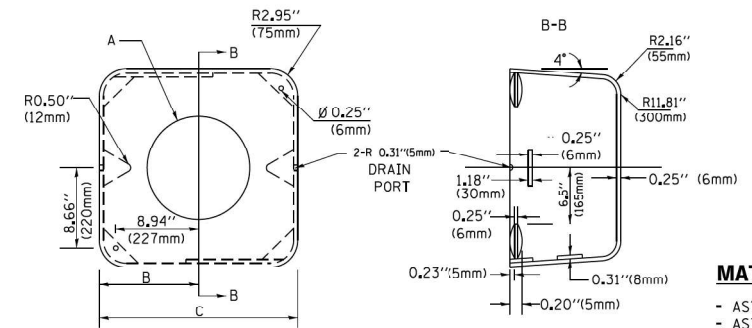


**MODIFY EXISTING TYPE "D" FOUNDATION TO TYPE "C" FOUNDATION**  
(NOT TO SCALE)

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:**

1. ALL ELECTRICAL ITEMS, EXCEPT ITEMS #2 AND #11 SHALL BE ALUMINUM OR GALVANIZED
2. ITEM #1- OZ/GEDNEY FSX-1-50 OR EQUIVALENT  
ITEM #2- MULBERRY CON-O-SHADE LAMP SHIELD OR EQUIVALENT  
ITEM #9- "BAND-IT" SADDLE BRACKET OR EQUIVALENT
3. 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
VARIES	9.5"(241mm)	19"(483mm)	7" (178mm) - 12" (300mm)	53 lbs (24kg)
VARIES	10.75"(273mm)	21.5"(546mm)	7" (178mm) - 12" (300mm)	68 lbs (31 kg)
VARIES	13.0"(330mm)	26"(660mm)	7" (178mm) - 12" (300mm)	81 lbs (37 kg)
VARIES	18.5"(470mm)	37"(940mm)	7" (178mm) - 12" (300mm)	126 lbs (57 kg)

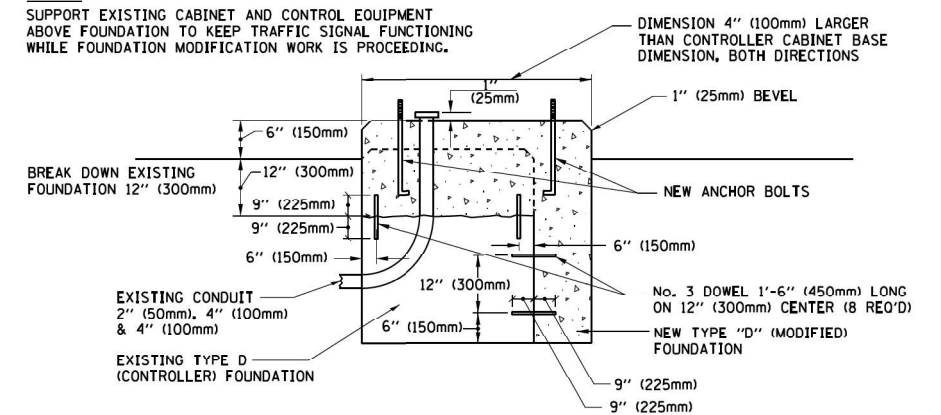
**SHROUD**

**NOTES:**

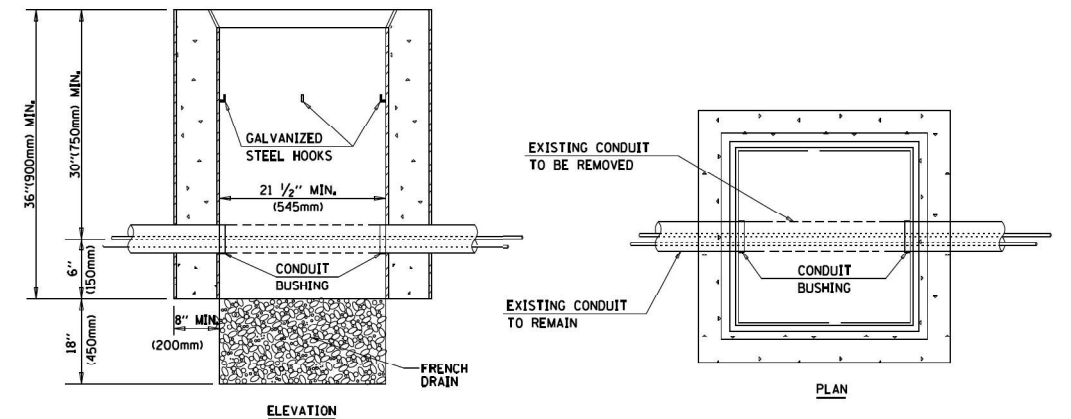
1. DIMENSION "A" IS EQUAL TO THE DIAMETER OF THE MAST ARM POLE AT THE TOP OF THE SHROUD. THE SHROUD SHALL BE TIGHT TO THE MAST ARM POLE.
2. THE SUPPLIER SHALL VERIFY THE ABOVE DIMENSIONS BASED ON MAST ARM REQUIREMENTS.
3. THE HEIGHT OF THE SHROUD SHALL COVER THE ANCHOR BOLTS, NUTS AND MAST ARM POLE BASE.

**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:**

1. HANDHOLE CONSTRUCTED PER STATE STANDARD 814001.
2. 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**

FILE NAME =	USER NAME = footen_j	DESIGNED - DAD	REVISED - DAG 1-1-14
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	PLOT SCALE = 50.0000 ' / in.	CHECKED - DAD	REVISED -
	PLOT DATE = 1/13/2014	DATE - 10-28-09	REVISED -

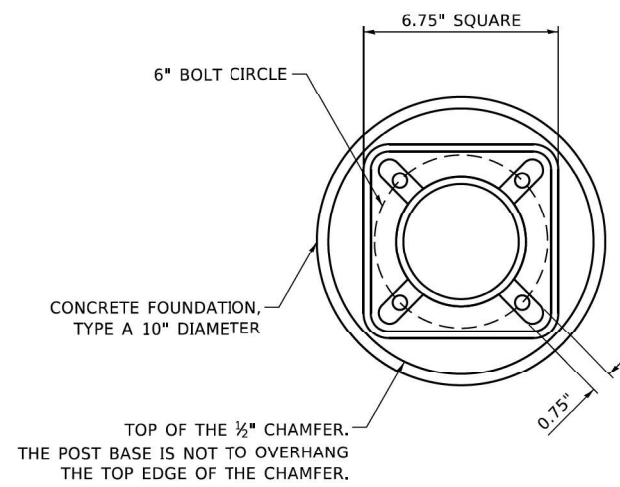
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

DISTRICT ONE  
STANDARD TRAFFIC SIGNAL DESIGN DETAILS

SCALE: NONE

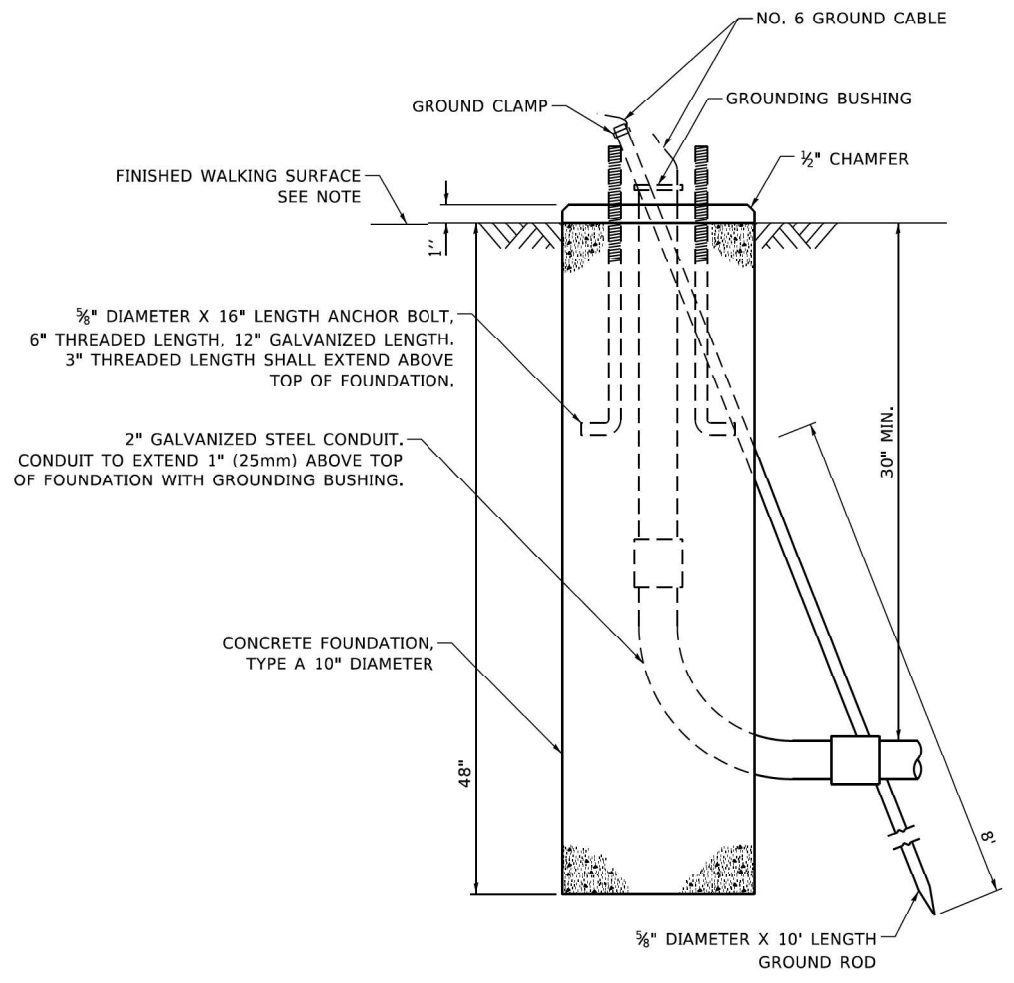
SHEET NO. 6 OF 7 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
535	118N-2	LAKE	57	34
TS-05		CONTRACT NO. 60X57		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

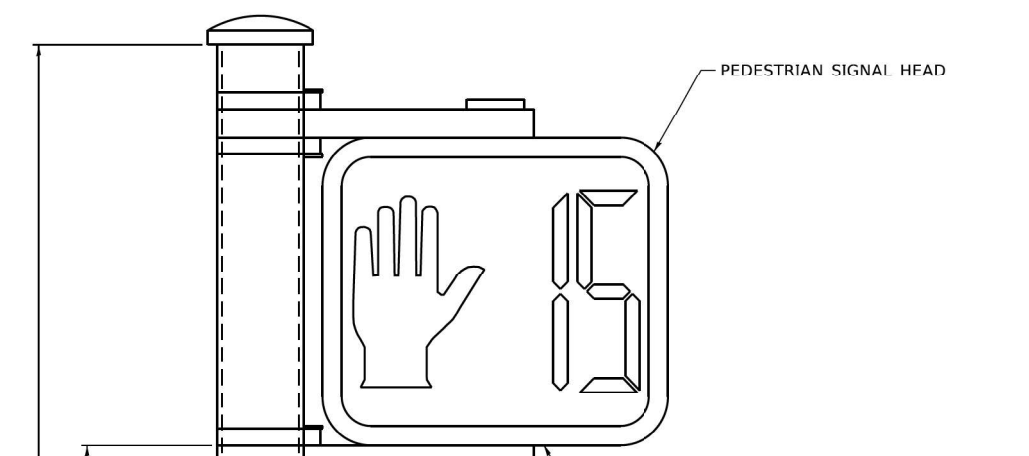


**BOLT PATTERN**

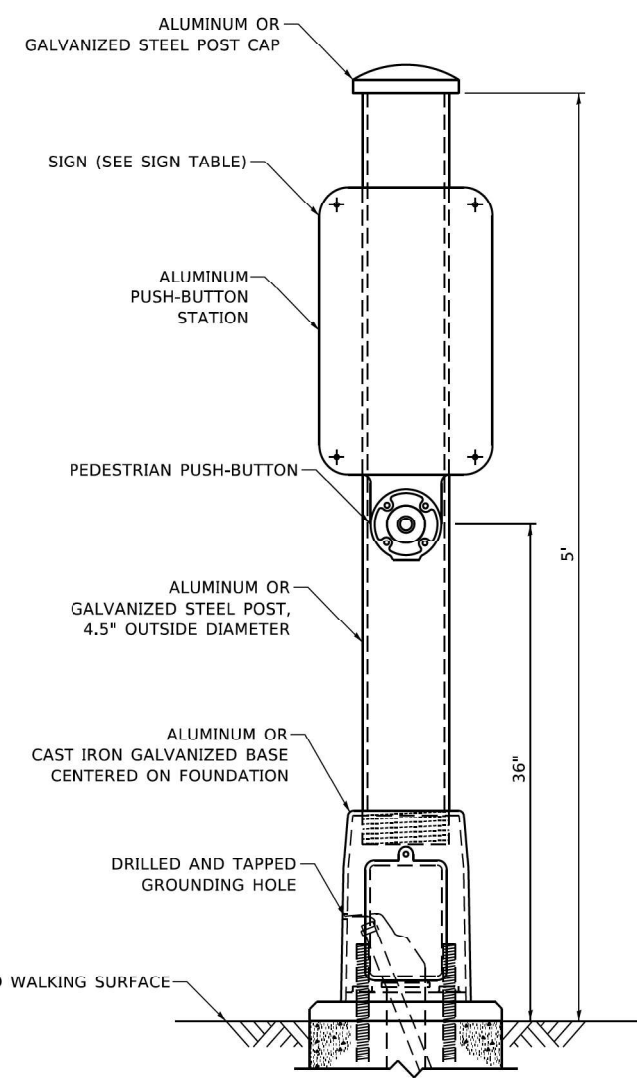
NOTE:  
 1. IF THE PEDESTRIAN SIGNAL POST FOUNDATION IS INSTALLED WITHIN OR BEHIND A BARRIER CURB, THE TOP OF THE FOUNDATION SHALL BE INSTALLED FLUSH WITH THE TOP OF THE BARRIER CURB.



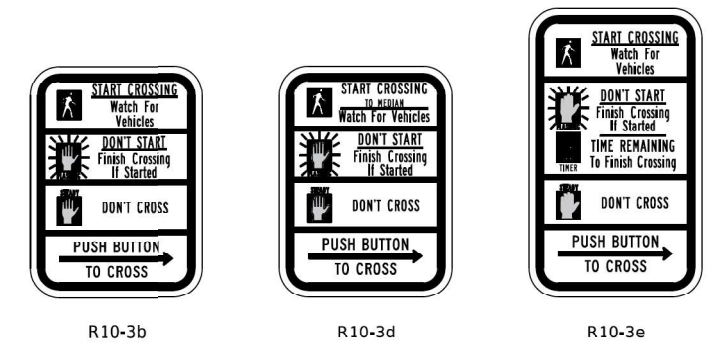
**CONCRETE FOUNDATION,  
TYPE A 10-INCH DIAMETER**



**PEDESTRIAN SIGNAL POST, 10 FT.**



**PEDESTRIAN SIGNAL POST, 5 FT.**



**SIGN TABLE**

SIGN	DIMENSIONS
R10-3b (RAILROAD ONLY)	9" X 12"
R10-3d (RAILROAD ONLY)	9" X 12"
R10-3e	9" X 15"

NOTES:  
 1. THE SIGN PANELS SHALL BE TYPE AP SHEETING.  
 2. THE ARROW ON SIGNS FOR PUSH-BUTTONS SERVING TWO DIRECTIONS ON THE SAME PHASE SHALL BE BI-DIRECTIONAL.  
 3. THE SIGN FOR DUAL-CALL PUSH-BUTTONS SHALL HAVE NO ARROW.

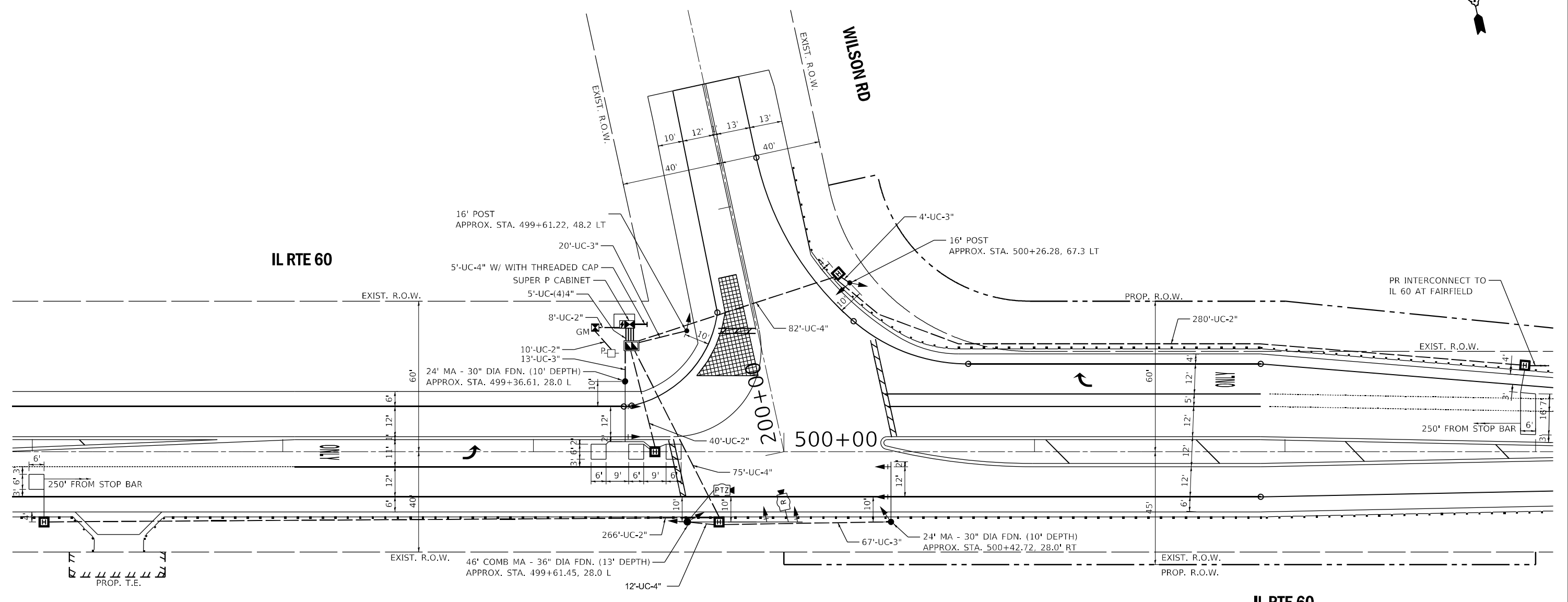
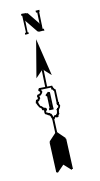
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**TS SHT NO. 08**

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PLOT SCALE = 100.0000' / in.	DRAWN - IP	REVISED -
PLOT DATE = 1/9/2020	CHECKED - LP	REVISED -
	DATE - 10/15/2018	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.
535	118N-2	LAKE	57	35
<b>TS-05</b>			CONTRACT NO. 60X57	
		ILLINOIS	FED. AID PROJECT	



**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.
2. THE MOUNTING LOCATIONS OF THE RADAR DETECTORS WILL BE DETERMINED PER THE MANUFACTURER'S RECOMMENDATIONS.
3. PTZ CAMERA TO BE INSTALLED ON LUMINAIRE ARM.

**LAKE COUNTY PASSAGE  
TS 6914**

TS SHT NO 09  
FILE NAME: M:\2023\18-03-2500 DGT\_170\_190 - Various Traffic Signal Design\Graphics\20-011\CADD\60X57\_Sheet\_Proposed\_Rte.dgn

**Sam Schwartz**  
223 W. JACKSON  
SUITE 1101  
CHICAGO, IL 60606  
TEL: (773) 305-0800

USER NAME = esalutz	DESIGNED - ECS	REVISED -
PLOT SCALE = 40,0000 * / in.	DRAWN - ECS	REVISED -
PLOT DATE = 5/13/2021	CHECKED - PAW	REVISED -
	DATE - 01/21/2021	REVISED -

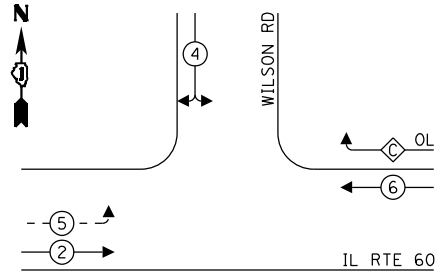
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**TRAFFIC SIGNAL INSTALLATION PLAN  
IL ROUTE 60 AT WILSON RD**

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
535	118N-2	LAKE	57	36
CONTRACT NO. 60X57				
ILLINOIS FED. AID PROJECT				

**PROPOSED CONTROLLER SEQUENCE**

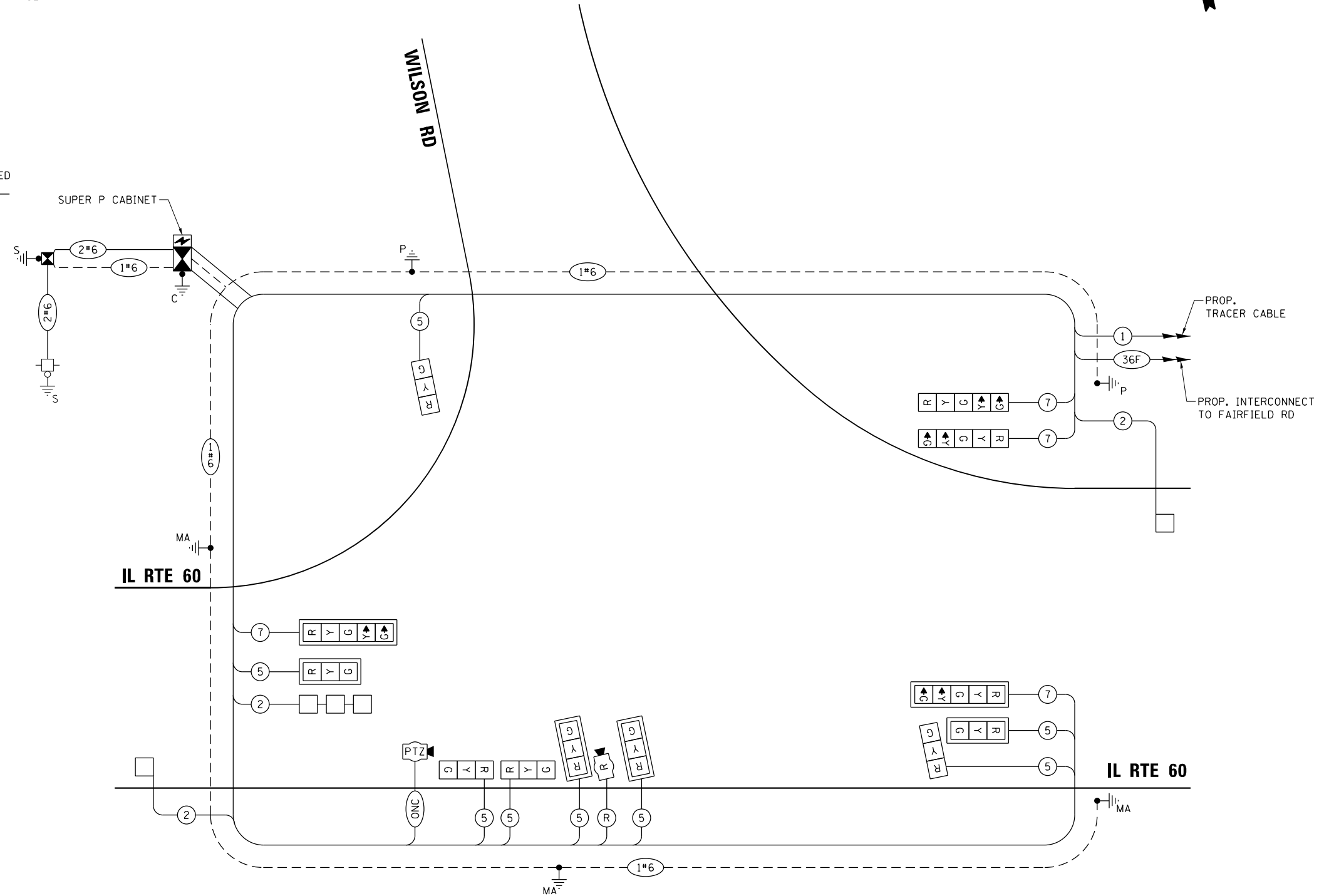


**LEGEND:**

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

**RIGHT TURN OVERLAP PHASE DESIGNATION:**

$$\frac{\text{OVERLAP LETTER}}{C} = \frac{\text{PERMISSIVE PHASE}}{6} + \frac{\text{PROTECTED PHASE}}{4}$$



**CABLE PLAN**  
(NOT TO SCALE)

**TRAFFIC SIGNAL ELECTRICAL SERVICE REQUIREMENTS**

TYPE	NO. OF LAMPS	LED WATTAGE	% OPERATION	TOTAL WATTAGE
SIGNAL (RED)	12	11	50	66.0
(YELLOW)	12	20	5	12.0
(GREEN)	12	12	45	64.8
PERMISSIVE ARROW	8	10	10	8.0
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	-
LUMINAIRE	-	-	-	-
TOTAL =				325.8

ENERGY COSTS TO:  
ILLINOIS DEPARTMENT OF TRANSPORTATION  
201 W CENTER CT  
SCHAUMBERG, IL 60196  
ENERGY SUPPLY: CONTACT: TERRI BLECK  
PHONE: (847) 816-5239  
COMPANY: COMMONWEALTH EDISON  
ACCOUNT NUMBER: ---

TS SHT NO. 10

**Sam Schwartz**  
223 W. JACKSON  
SUITE 1101  
CHICAGO, IL 60606  
TEL: (773) 305-0800

USER NAME = esalutz	DESIGNED - ECS	REVISED -
PLOT SCALE = 40,0000 * / in.	DRAWN - ECS	REVISED -
PLOT DATE = 5/13/2021	CHECKED - PAW	REVISED -
	DATE - 01/21/2021	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**CABLE PLAN, PHASE DESIGNATION DIAGRAM  
AND EMERGENCY VEHICLE PREEMPTION SEQUENCE  
IL ROUTE 60 AT WILSON ROAD**

SCALE: NTS SHEET OF SHEETS STA. TO STA.

F.A.P. RTE. 535	SECTION 118N-2	COUNTY LAKE	TOTAL SHEETS 57	SHEET NO. 37
CONTRACT NO. 60X57				

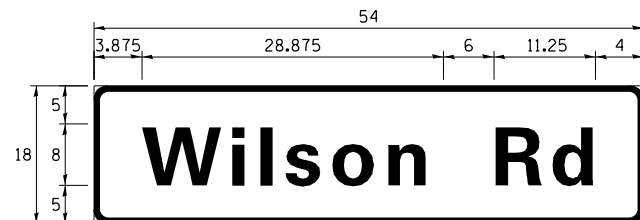
**LAKE COUNTY PASSAGE  
TS 6914**

ILLINOIS FED. AID PROJECT

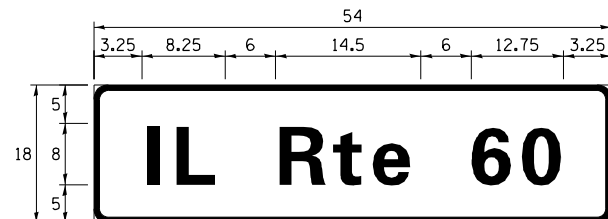
TS SHT NO. 11  
FILE NAME: M:\2023\11-Various Traffic Signs\Design\Graphics\20-20-011\CADD\60X57\_Sheet\_Mast\_Arm\_Sign\_6\_S00.dgn

**SIGN PANEL – TYPE 1 OR TYPE 2**

ALL DIMENSIONS ARE IN INCHES UNLESS NOTED OTHERWISE



DESIGN SERIES	AREA (SQ FT)	SIGN PANEL TYPE	SHEETING TYPE	QTY. REQUIRED
D	6.75	1	ZZ	2



DESIGN SERIES	AREA (SQ FT)	SIGN PANEL TYPE	SHEETING TYPE	QTY. REQUIRED
D	6.75	1	ZZ	1

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

**SCHEDULE OF QUANTITIES**

ITEM DESCRIPTION	UNITS	TOTAL QTY.
SIGN PANEL - TYPE 1	SQ FT	21
UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA.	FOOT	606
UNDERGROUND CONDUIT, GALVANIZED STEEL, 3" DIA.	FOOT	104
UNDERGROUND CONDUIT, GALVANIZED STEEL, 4" DIA.	FOOT	194
HEAVY-DUTY HANDHOLE	EACH	5
DOUBLE HANDHOLE	EACH	1
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	FOOT	1164
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C	FOOT	540
ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1 PAIR	FOOT	842
ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2C	FOOT	30
ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C	FOOT	408
TRAFFIC SIGNAL POST, GALVANIZED STEEL 16 FT.	EACH	2
STEEL MAST ARM ASSEMBLY AND POLE, 24 FT.	EACH	2
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE, 46 FT.	EACH	1
CONCRETE FOUNDATION, TYPE A	FOOT	12
CONCRETE FOUNDATION, TYPE C	FOOT	4
CONCRETE FOUNDATION, TYPE E, 30-INCH DIAMETER	FOOT	20
CONCRETE FOUNDATION, TYPE E, 36-INCH DIAMETER	FOOT	13
SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST ARM MOUNTED	EACH	4
SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED	EACH	4
SIGNAL HEAD, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED	EACH	2
SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST ARM MOUNTED	EACH	2
TRAFFIC SIGNAL BACKPLATE, LOUVERED, FORMED PLASTIC	EACH	6
INDUCTIVE LOOP DETECTOR	EACH	3
DETECTOR LOOP, TYPE I	FOOT	176
FULL-ACTUATED CONTROLLER AND TYPE SUPER P CABINET	EACH	1
OUTDOOR RATED NETWORK CABLE (LCDOT)	FOOT	179
SERVICE INSTALLATION, GROUND MOUNTED, METERED	EACH	1
RADAR VEHICLE DETECTION SYSTEM, SINGLE APPROACH, STOP BAR	EACH	1
UNINTERRUPTIBLE POWER SUPPLY, SPECIAL	EACH	1
REMOTE CONTROLLED VIDEO SYSTEM (LCDOT)	EACH	1

**Sam Schwartz**  
223 W. JACKSON  
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TEL: (773) 305-0800

USER NAME = esalutz	DESIGNED - ECS	REVISED -
PLOT SCALE = 40,0000 */ in.	DRAWN - ECS	REVISED -
PLOT DATE = 5/13/2021	CHECKED - PAW	REVISED -
	DATE - 01/21/2021	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**MAST ARM MOUNTED STREET NAME SIGNS  
AND SCHEDULE OF QUANTITIES  
IL RTE 60 AT WILSON ROAD**

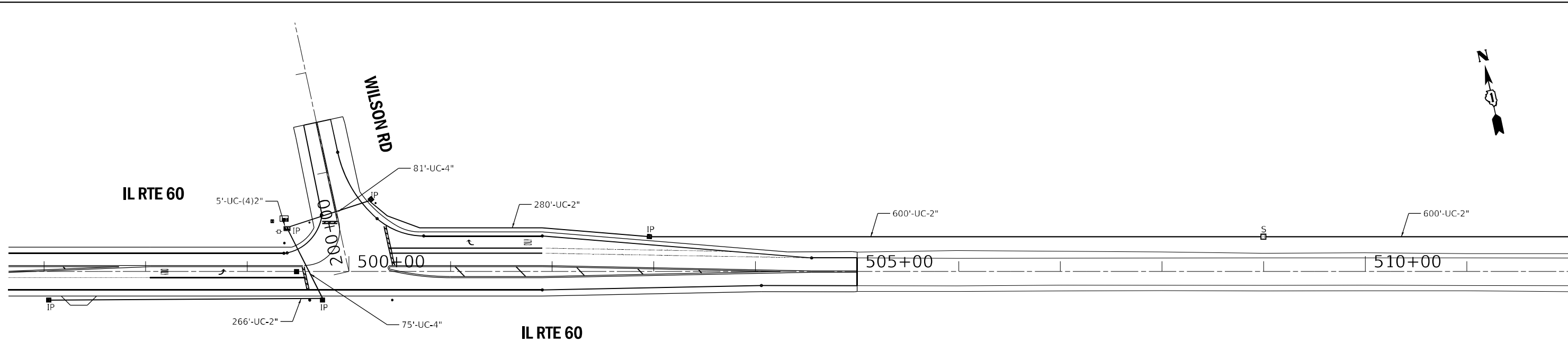
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
535	118N-2	LAKE	57	38
			CONTRACT NO. 60X57	
SCALE: NTS	SHEET OF SHEETS	STA. TO STA.	ILLINOIS FED. AID PROJECT	

**LAKE COUNTY PASSAGE  
TS 6914**

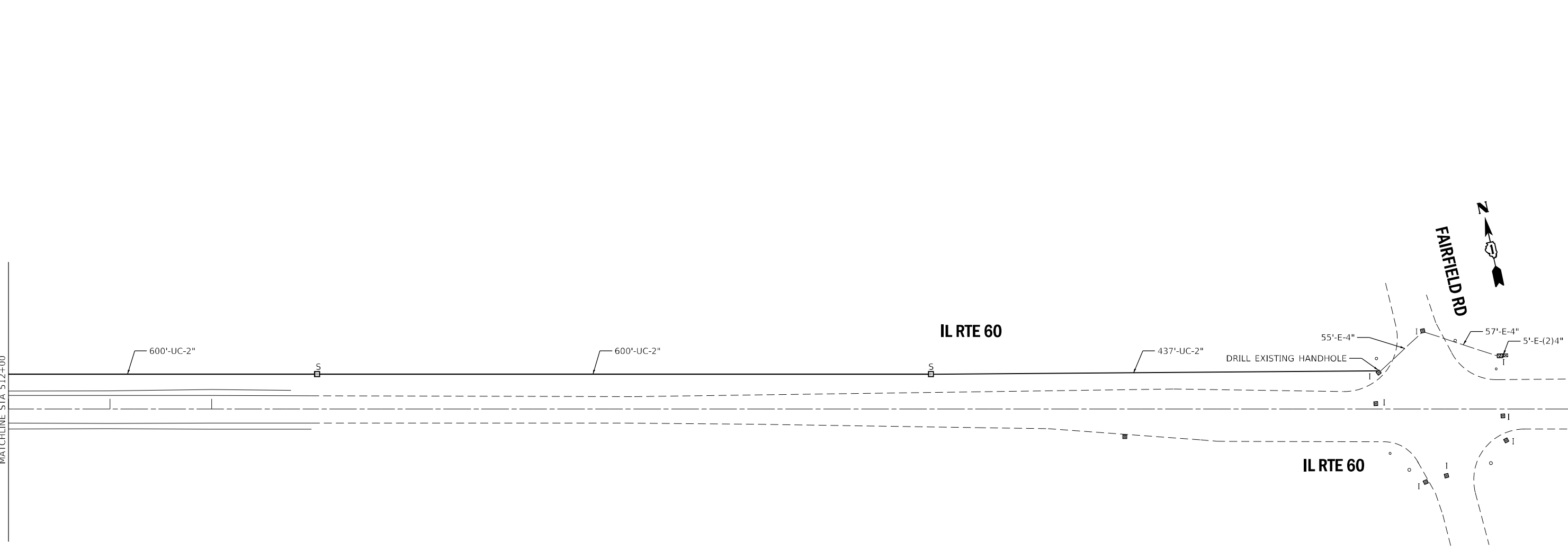


TS SHT NO. 12

FILE NAME: M:\2019\11\_CAD\11\_CADD\11\_CADD\60X57\_Sheet\_Proposed Interconnect\_Plan.dwg



MATCHLINE STA 512+00



LAKE COUNTY PASSAGE

**Sam Schwartz**  
 223 W. JACKSON  
 SUITE 1101  
 CHICAGO, IL 60606  
 TEL: (773) 305-0800

USER NAME = esalutz	DESIGNED - ECS	REVISED -
DRAWN - ECS	REVISIONS -	
PLOT SCALE = 100,0000' / in.	CHECKED - PAW	REVISED -
PLOT DATE = 5/13/2021	DATE - 01/21/2021	REVISED -

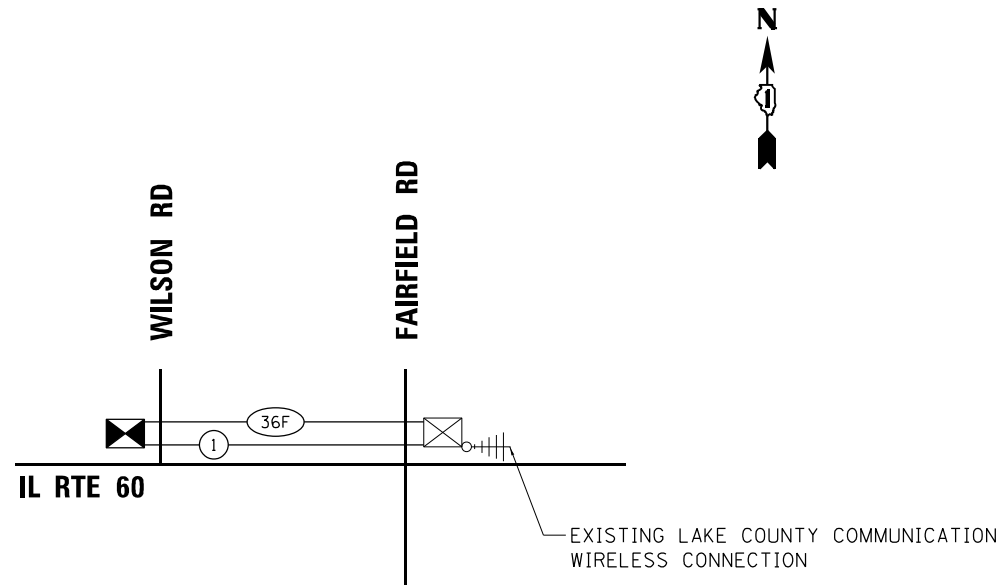
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

PROPOSED INTERCONNECT PLAN  
IL RTE 60 - WILSON RD TO FAIRFIELD RD

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
535	118N-2	LAKE	57	39
CONTRACT NO. 60X57				
ILLINOIS FED. AID PROJECT				

TS SHT NO. 13  
 FILE NAME: M:\2019\13\_CMT\8-03-2500\_PLOT\_RTB\_190 - Various Traffic\_Signals\_Design\Graphics\NO-26\011\CADD\60X57\_Sheet\_Proposed Interconnect\_Schematic.dgn



**SCHEDULE OF QUANTITIES**

ITEM DESCRIPTION	UNITS	TOTAL QTY.
UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA.	FOOT	2237
HEAVY-DUTY HANDHOLE	EACH	3
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
ELECTRIC CABLE IN CONDUIT, TRACER, NO. 14 1C	FOOT	2801
DRILL EXISTING HANDHOLE	EACH	1
FIBER OPTIC CABLE IN CONDUIT, NO. 62.5/125, MM12F SM 24F	FOOT	2827
LAYER II (DATA LINK) SWITCH (LCDOT)	EACH	24
TERMINATE FIBER IN CABINET (LCDOT)	EACH	1
SPLICE FIBER IN CABINET (LCDOT)	EACH	1
RE-OPTIMIZE TRAFFIC SIGNAL SYSTEM LEVEL 2	EACH	1

**Sam Schwartz**  
 223 W. JACKSON  
 SUITE 1101  
 CHICAGO, IL 60606  
 TEL: (773) 305-0800

USER NAME = esalutz	DESIGNED - ECS	REVISED -
PLOT SCALE = 100,9132' / in.	DRAWN - ECS	REVISED -
PLOT DATE = 5/13/2021	CHECKED - PAW	REVISED -
	DATE - 01/21/2021	REVISED -







STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

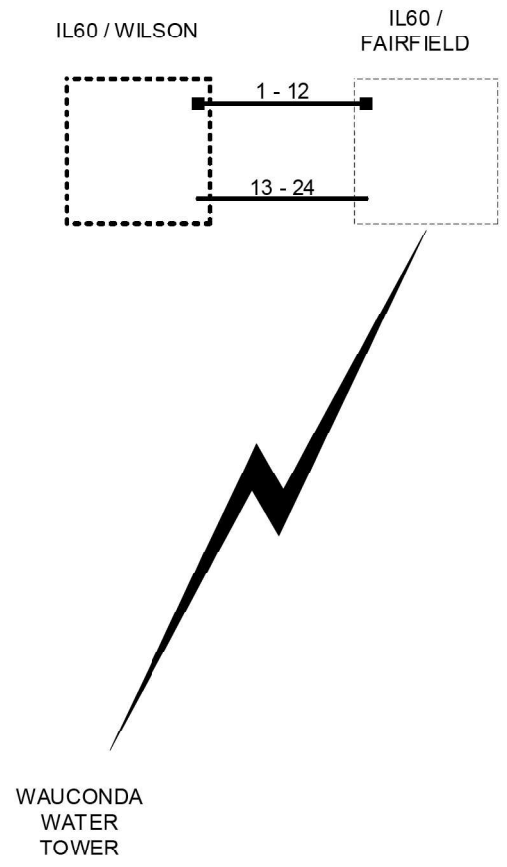
**PROPOSED INTERCONNECT SCHEMATIC AND SCHEDULE OF QUANTITIES**  
**IL ROUTE 60 – WILSON RD TO FAIRFIELD RD**

SCALE: NTS SHEET OF SHEETS STA. TO STA.

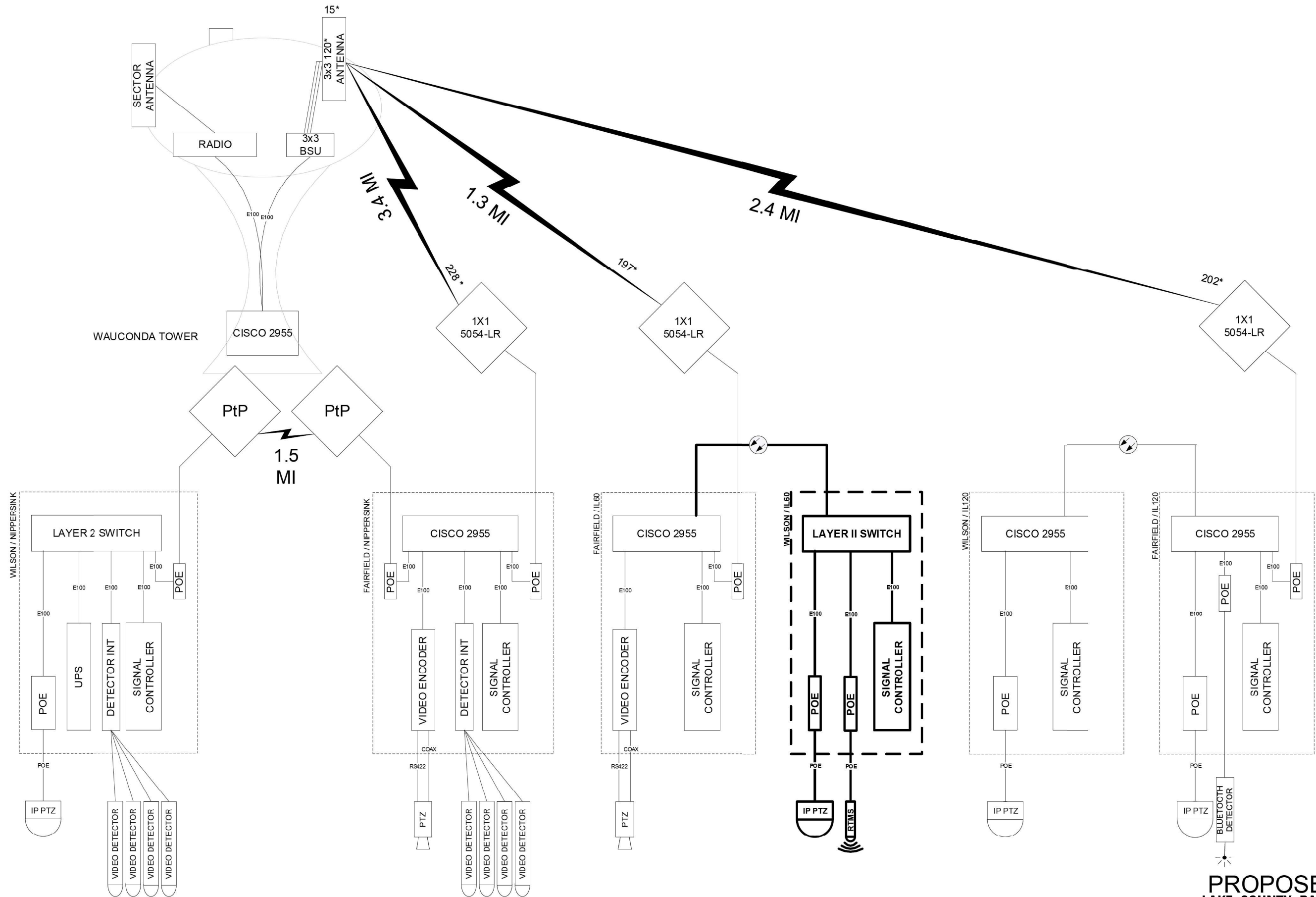
**LAKE COUNTY PASSAGE**

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
535	118N-2	LAKE	57	40
CONTRACT NO. 60X57				
ILLINOIS FED. AID PROJECT				

-  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	IL60 / WILSON FIBER SPLICING DIAGRAM		ROUTE	SECTION	SECTION NUMBER	SHEET	SHEETS
DRAWN - YM	REVISED -		535		118N-2	57	40A		
CHECKED - DG	REVISED -		SCALE N/A		CONTRACT NO. 60X57				
DATE 2020.12.10	REVISED -								



**PROPOSED  
LAKE COUNTY PASSAGE**

DESIGNED - DG	REVISED -
DRAWN - YM	REVISED -
CHECKED - DG	REVISED -
DATE 2020.12.10	REVISED -

LAKE COUNTY  
DIVISION OF TRANSPORTATION

204B  
WAUCONDA TOWER

ROUTE	SECTION	SECTION NUMBER	SHEET	SHEETS
535		118N-2	40B	57

**BILL OF MATERIALS**

STATION	U BAR		EXPANSION BOLTS No.	CONCRETE COLLAR CU. YD	REINF. BARS LBS
	No.	LENGTH			
494+68.39	8	10'-0"	16	1.2	56
501+15.40	8	10'-0"	16	1.2	56
		TOTAL	32	2.4	112

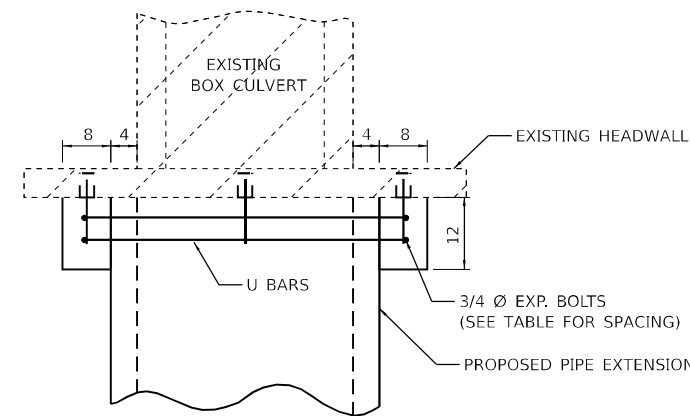
**GENERAL NOTES**

CONCRETE COLLARS SHALL BE CONSTRUCTED OF CLASS SI CONCRETE IN ACCORDANCE WITH SECTION 503 OF THE STANDARD SPECIFICATIONS

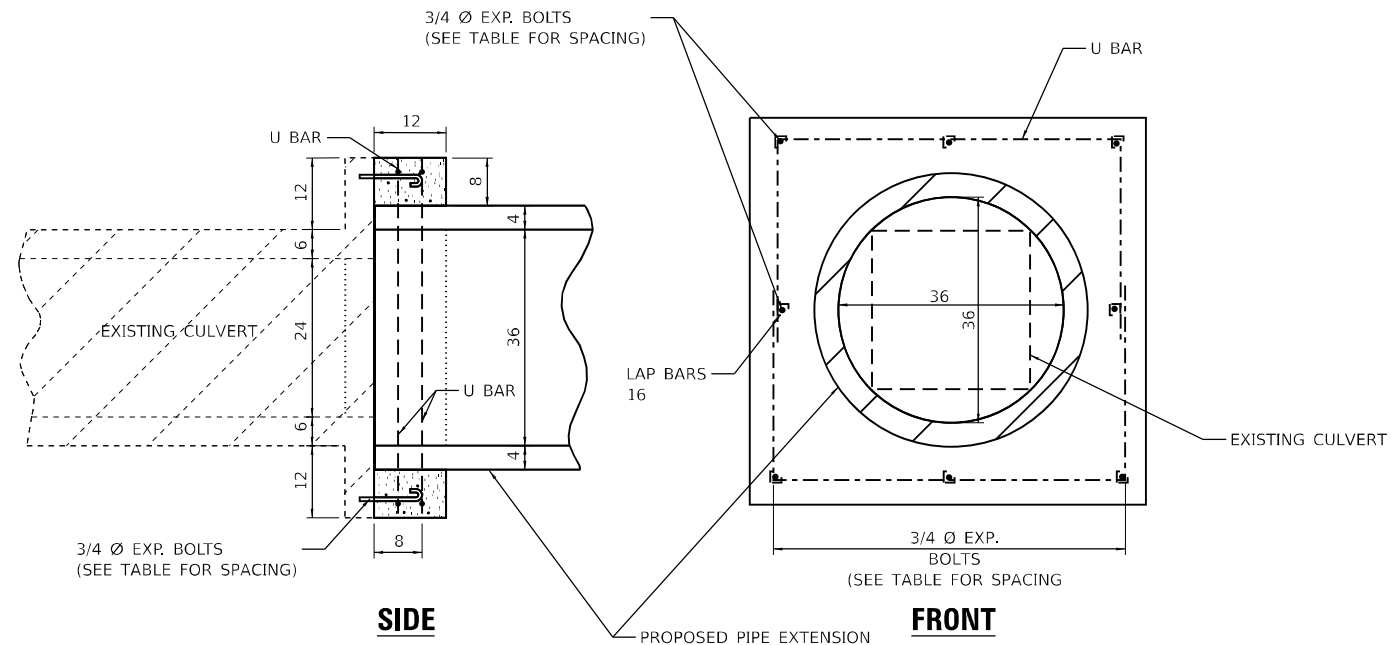
REINFORCEMENT BARS SHALL CONFORM TO SECTION 508 OF THE STANDARD SPECIFICATIONS.

THE CONCRETE WILL BE PAID FOR AT THE CONTRACT UNIT PRICE PER CUBIC YARD FOR CONCRETE COLLAR. REINFORCEMENT WILL BE PAID FOR AT THE CONTRACT UNIT PRICE PER POUND FOR REINFORCEMENT BARS. EXPANSION BOLTS, WHEN REQUIRED, WILL BE PAID FOR AT THE CONTRACT UNIT PRICE EACH FOR EXPANSION BOLTS OF THE SIZE INDICATED, WHICH PRICE SHALL INCLUDE FURNISHING, DRILLING HOLES, AND INSTALLING THE EXPANSION BOLTS COMPLETE IN PLACE. THESE BOLTS SHALL EXTEND AT LEAST 8 INCHES INTO THE NEW CONCRETE.

ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE NOTED.

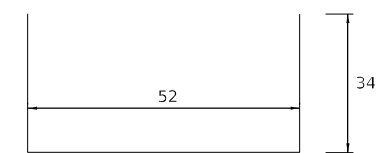


**PLAN OF CULVERT WITH STRAIGHT HEADWALL**

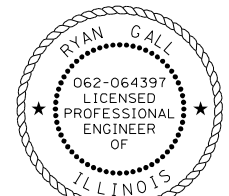


**SIDE**

**FRONT**



**(#4) U BAR**



Signed: *[Signature]*  
Date: 05/07/2021  
License Expires: 11/30/2021

**PLACEMENT DETAILS FOR EXPANSION BOLTS**

H OR S	NUMBER OF EXPANSION BOLTS REQUIRED PER SIDE			
	EXTENSIONS < 15'		EXTENSIONS > 15'	
	NUMBER	SPACING	NUMBER	SPACING
24	*		*	
30	2	18	2	18
36	2	24	2	24
48	3	18	3	18
60	4	16	3	24
72	5	15	4	20
84	5	18	4	24
96	6	15	5	21
108	6	19	5	24
120	7	18	6	21
132	8	17	6	24
144	8	19	7	22

MODEL: D:\p\c\h\... FILE NAME: 21180399.24 DDOT D1.PTB 187-006 W034 IL 60 Culvert\CDM\Design\p\redm\filesheet\180399.24-detailed-culvert.dwg

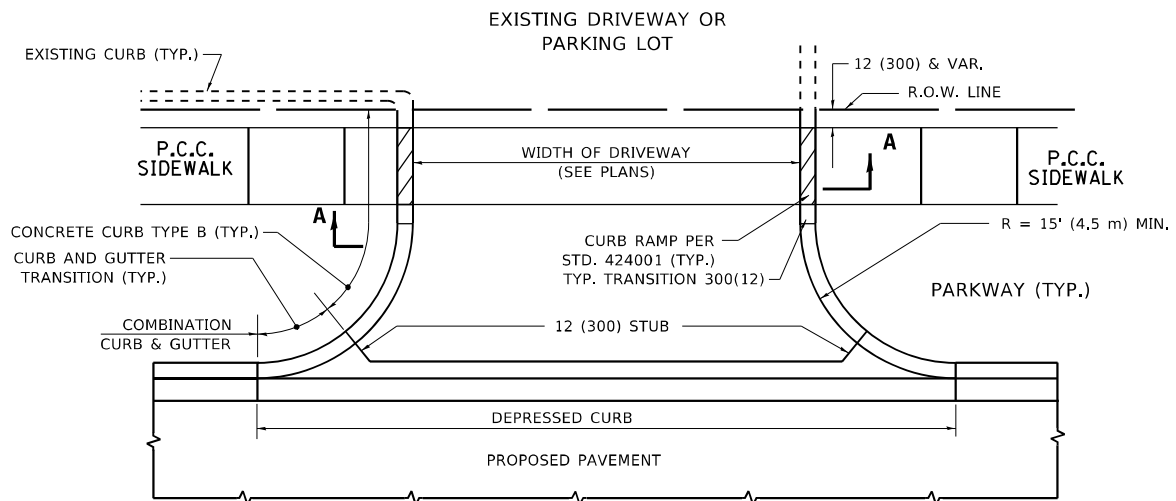
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	DRAWN - JB	REVISED -
PLOT SCALE = 40,0000 */ in.	CHECKED - JH	REVISED -
PLOT DATE = 5/7/2021	DATE - 02/21/2020	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

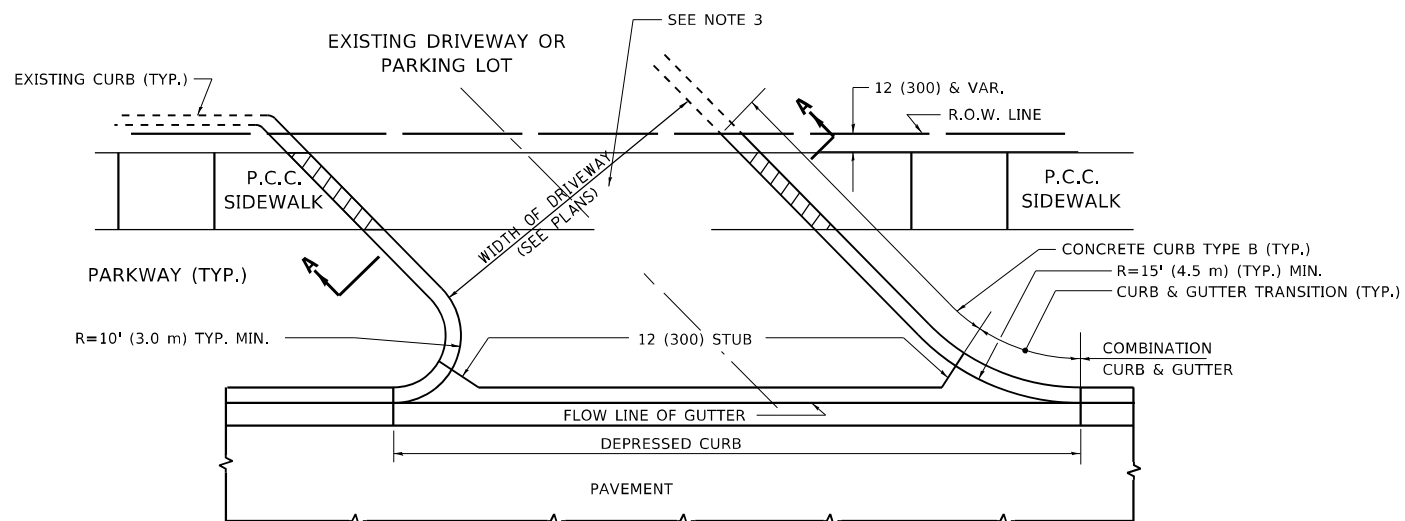
**CONCRETE COLLAR FOR PIPE EXTENSIONS**

SCALE: SHEET OF SHEETS STA. TO STA.

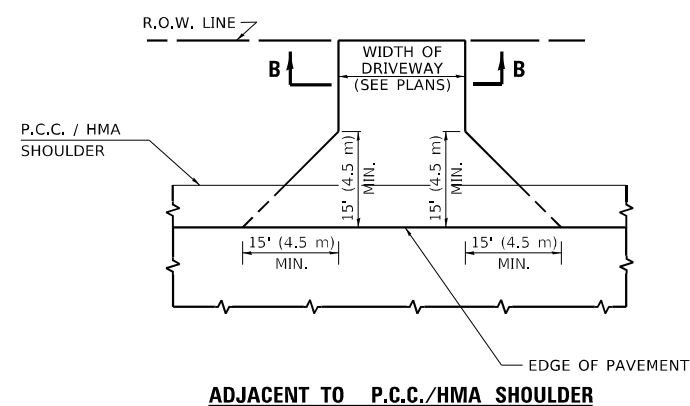
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
535	118N-2	LAKE	57	41
			CONTRACT NO. 60X57	
ILLINOIS FED. AID PROJECT				



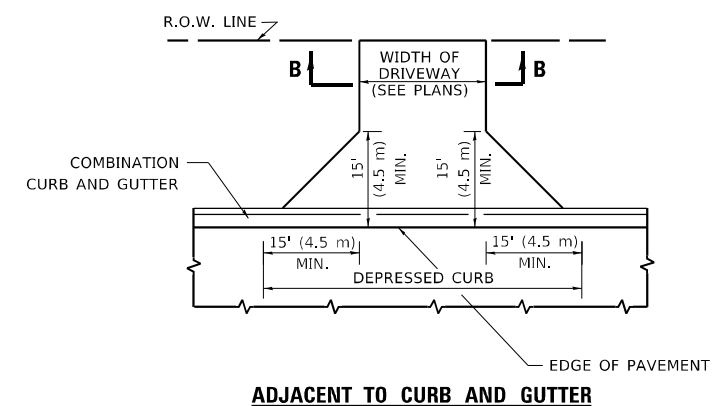
**WITH CONCRETE CURB, TYPE B**



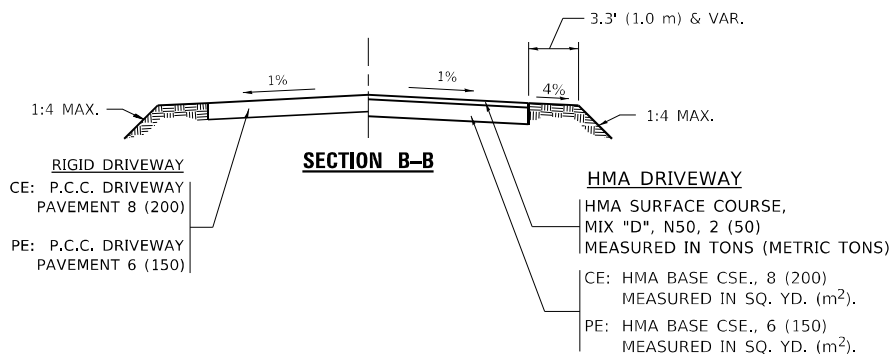
**WITH CONCRETE CURB, TYPE B**



**ADJACENT TO P.C.C./HMA SHOULDER**



**ADJACENT TO CURB AND GUTTER**



**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.

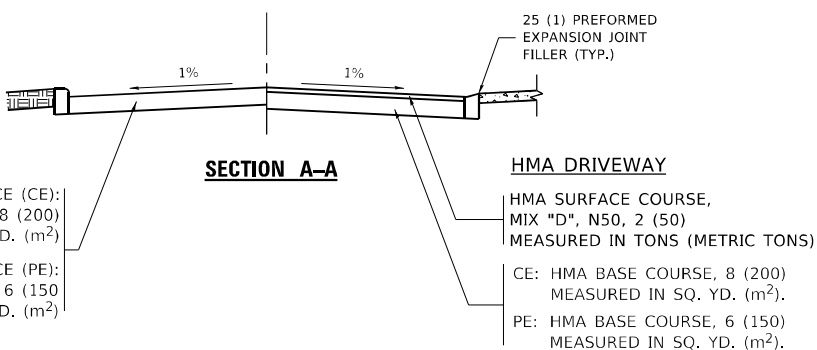
COMMERCIAL DRIVEWAYS SHALL BE CONSTRUCTED WITH CONCRETE CURB, TYPE B RETURNS EXCEPT WHEN THE SIDEWALK EDGE IS 4 FEET (1.2 METERS) OR LESS FROM THE BACK OF CURB, CONSTRUCT A FLARE DRIVEWAY WITHOUT CURB.

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.



**RIGID DRIVEWAY**

COMMERCIAL ENTRANCE (CE):  
P.C.C. DRIVEWAY PAVEMENT 8 (200)  
MEASURED IN SQ. YD. (m<sup>2</sup>)

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

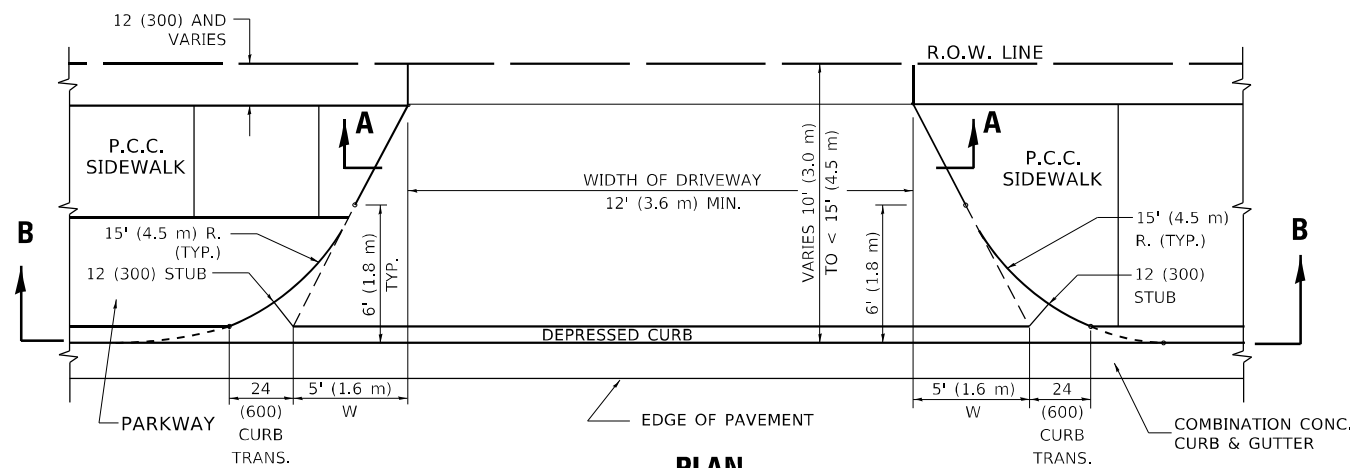
**SECTION A-A**

**HMA DRIVEWAY**

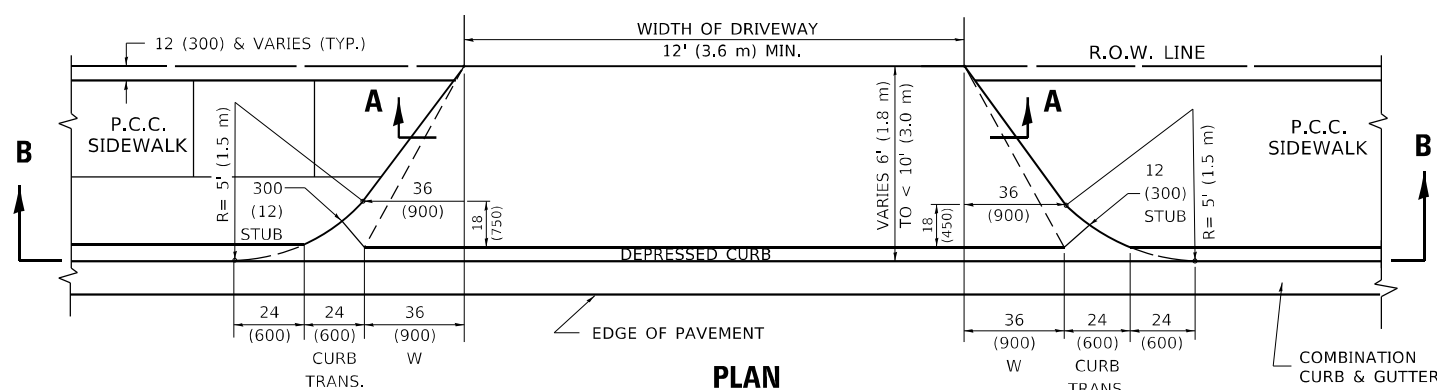
HMA SURFACE COURSE,  
MIX "D", N50, 2 (50)  
MEASURED IN TONS (METRIC TONS)

CE: HMA BASE COURSE, 8 (200)  
MEASURED IN SQ. YD. (m<sup>2</sup>).  
PE: HMA BASE COURSE, 6 (150)  
MEASURED IN SQ. YD. (m<sup>2</sup>).

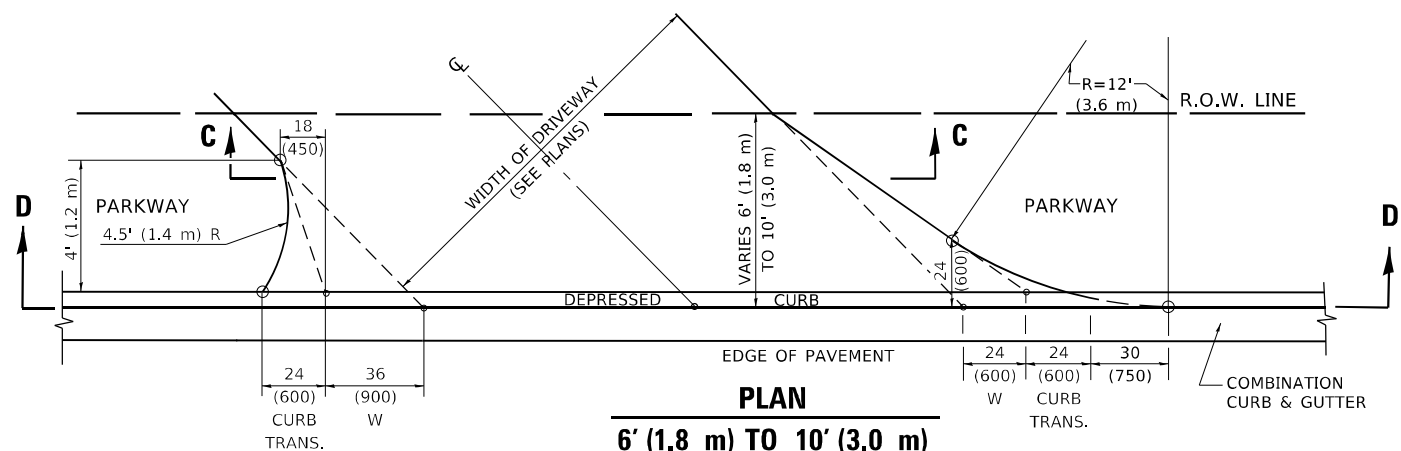
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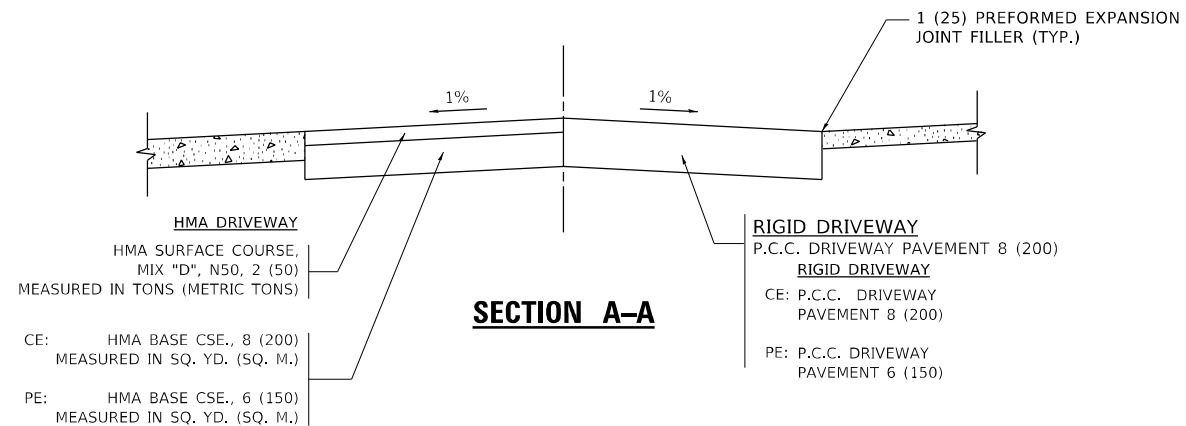
**PLAN**  
10' (3.0 m) TO < 15' (4.5 m)



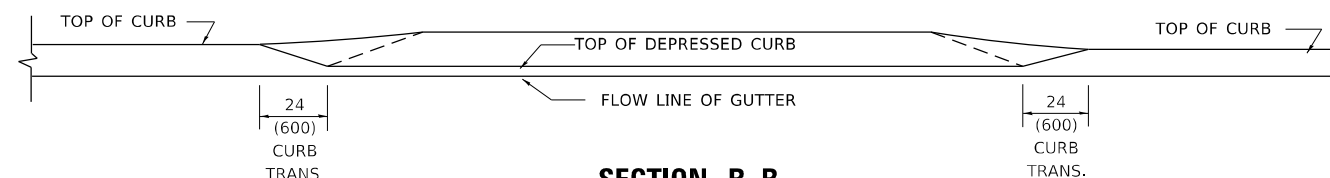
**PLAN**  
6' (1.8 m) TO < 10' (3.0 m)



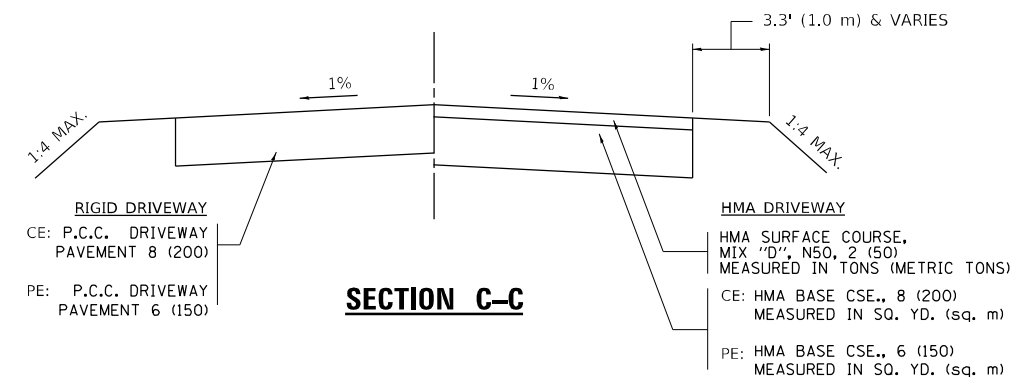
**PLAN**  
6' (1.8 m) TO 10' (3.0 m)



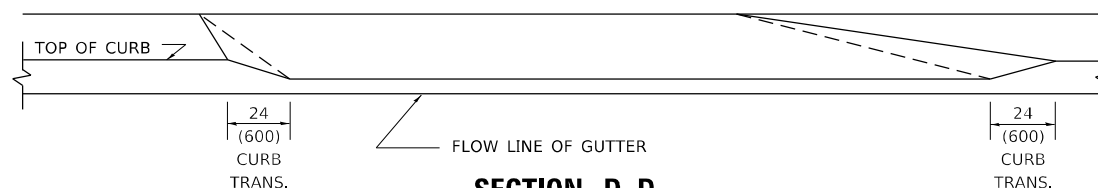
**SECTION A-A**



**SECTION B-B**



**SECTION C-C**



**SECTION D-D**

**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 ILLUSTRATION 10 IN THE PERMIT HANDBOOK. WHERE SIDEWALKS EXIST, DRIVEWAYS SHALL BE REPLACED WITH RIGID PAVEMENT. WHERE NO SIDEWALKS EXIST, DRIVEWAYS SHALL BE REPLACED IN KIND. SIDEWALK CROSS SLOPE THRU DRIVEWAY AREA TO BE A MAXIMUM OF 1:50.

WHEN THE DISTANCE BETWEEN R.O.W. AND THE BACK OF CURB IS EQUAL TO OR LESS THAN 8' (2.4 m), THE P.C.C. SIDEWALK SHALL EXTEND TO THE BACK OF 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.

THE 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.

"W" VARIES FROM 36 (900) TO 5' (1.5 m) PROPORTIONAL TO THE LENGTH (L), FROM 6' (1.8 m) TO 10' (3 m).

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

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

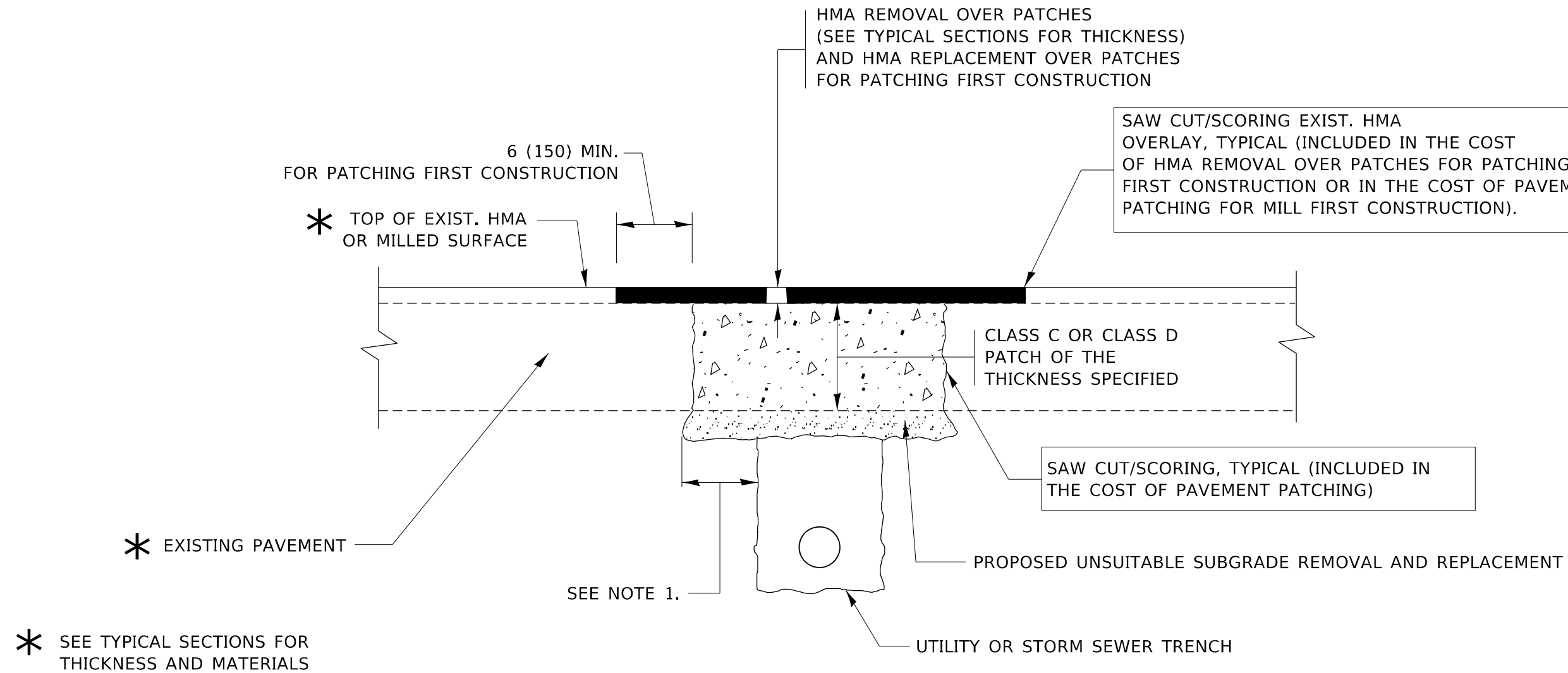
**DRIVEWAY DETAILS**  
**DISTANCE BETWEEN ROW AND FACE OF CURB < 15' (4.5m)**

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
535	118N-2	LAKE	57	43
<b>BD400-02 (BD-02)</b>			CONTRACT NO. 60X57	

ILLINOIS FED. AID PROJECT

USER NAME = guillaumefp	DESIGNED - R. SHAH	REVISED - M. GOMEZ 04-06-01
PLOT SCALE = 100,0000' / in.	DRAWN -	REVISED - P. LofLUER 04-15-03
PLOT DATE = 5/12/2021	CHECKED -	REVISED - R. BORO 01-01-07
	DATE - 11-06-95	REVISED - R. BORO 09-06-11



**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 4½ 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.

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	DRAWN -	REVISED - R. BORO 01-01-07
PLOT SCALE = 100,0000' / in.	CHECKED -	REVISED - R. BORO 09-04-07
PLOT DATE = 5/12/2021	DATE - 10-25-94	REVISED - K. ENG 10-27-08

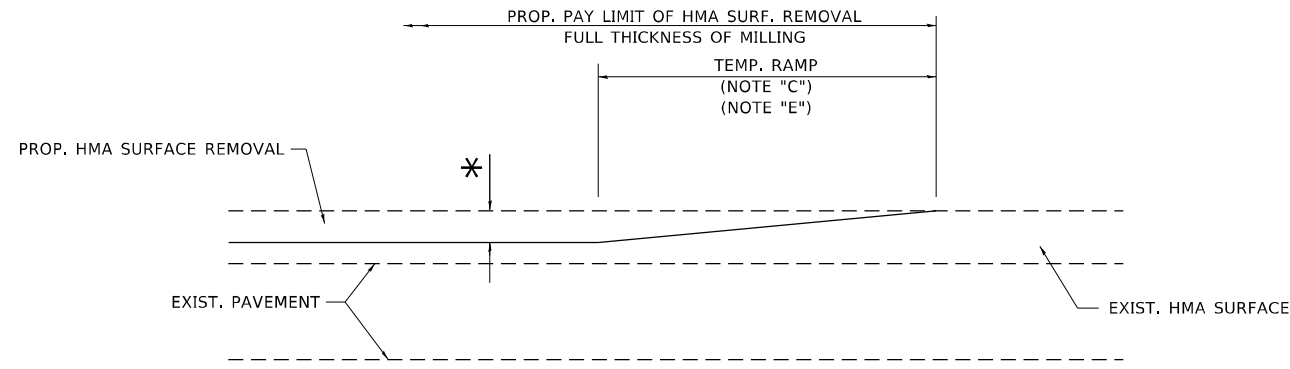
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**PAVEMENT PATCHING FOR  
HMA SURFACED PAVEMENT**

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
535	118N-2	LAKE	57	44
BD400-04 (BD-22)			CONTRACT NO. 60X57	
ILLINOIS FED. AID PROJECT				

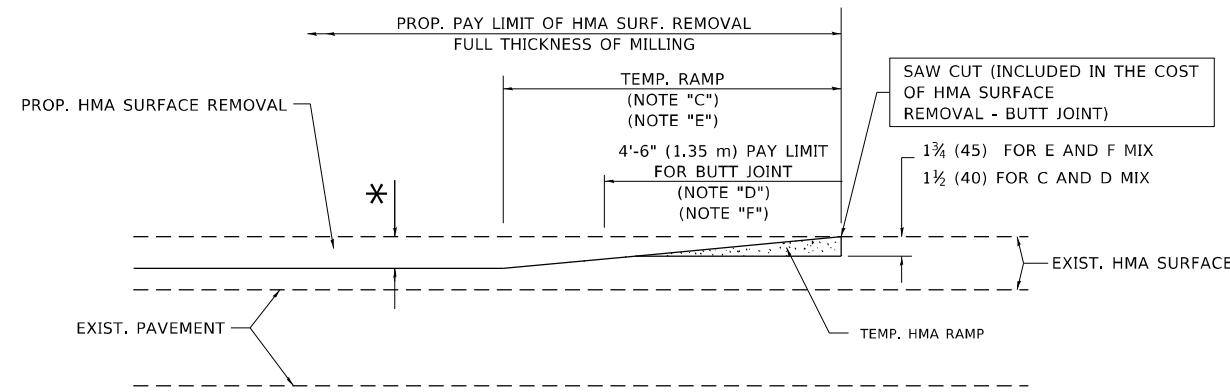




**MILLED TEMPORARY RAMP**

(FOR BUTT JOINT AND HMA TAPER SEE DETAIL BELOW)

**OPTION 1**

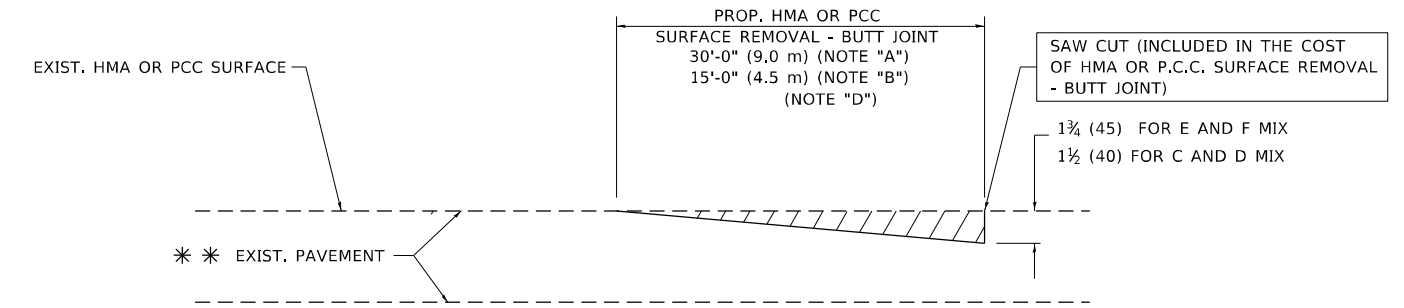


**HMA CONSTRUCTED TEMPORARY RAMP**

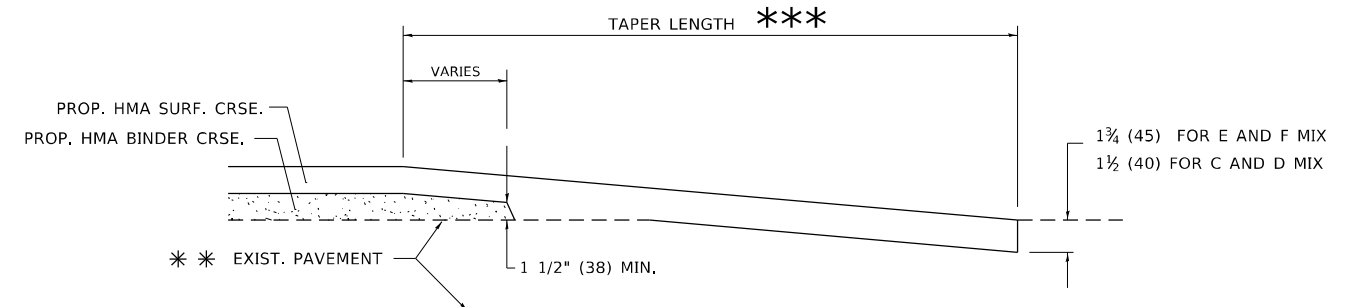
(FOR BUTT JOINT AND HMA TAPER SEE DETAIL BELOW)

**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.

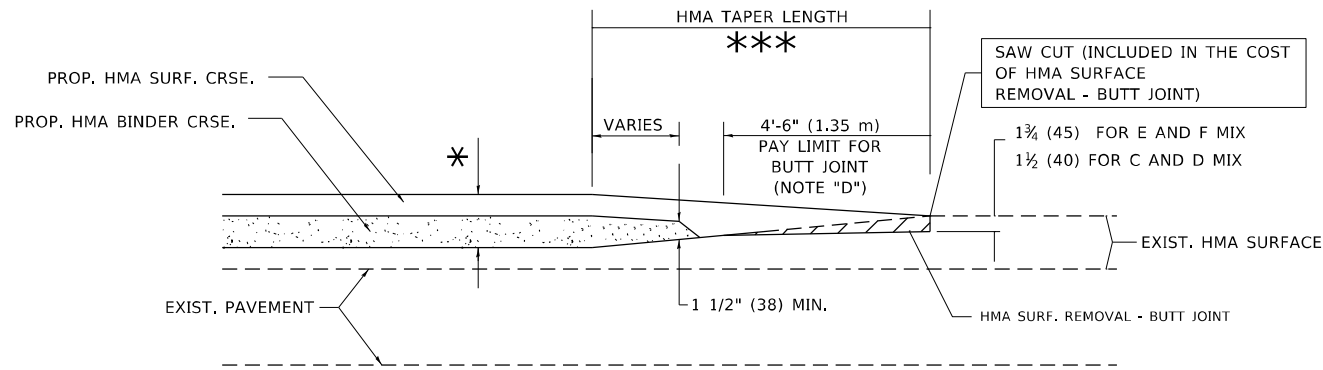
**NOTES**

- 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.  
\* SEE TYPICAL SECTIONS FOR MILLING THICKNESS.
- G. SEE ARTICLE 406.08 AND 406.14 OF THE STANDARD SPECIFICATIONS FOR "HMA AND/OR PCC SURFACE REMOVAL, BUTT JOINT".  
\*\*\* 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.



**BUTT JOINT AND HMA TAPER**

**TYPICAL BUTT JOINT AND HMA TAPER FOR MILLING AND RESURFACING**

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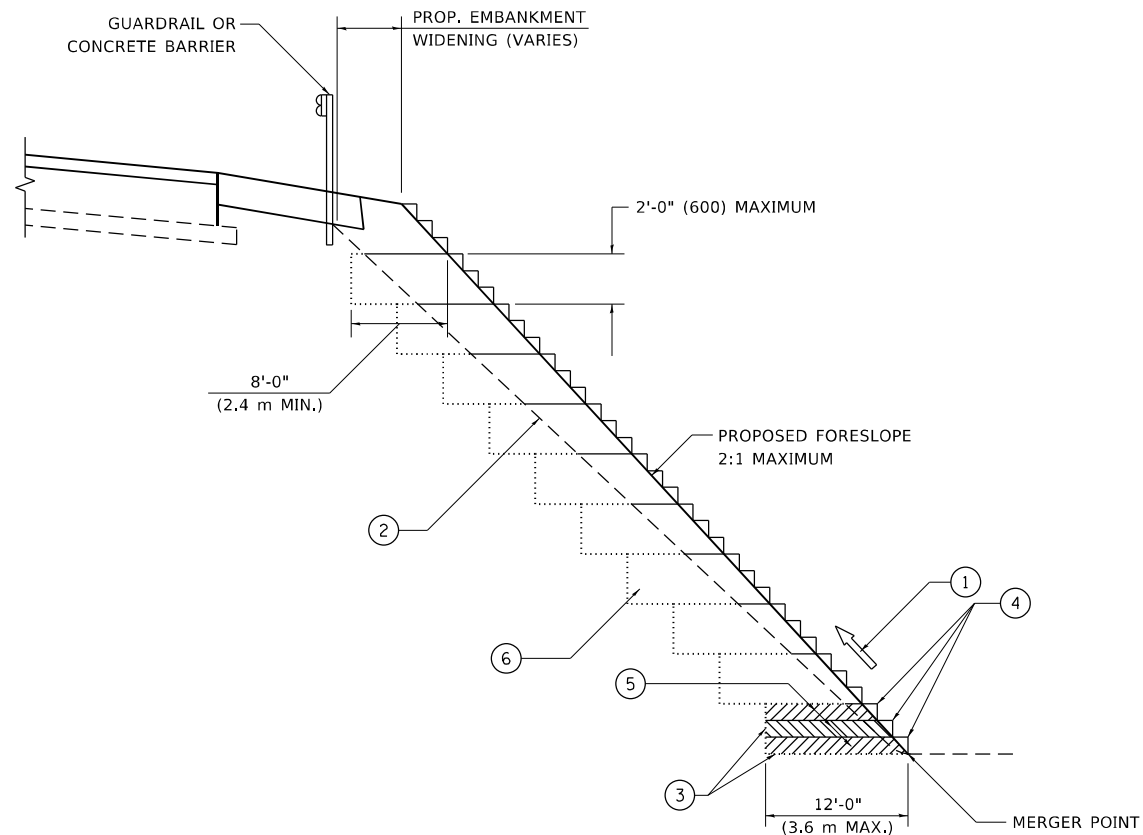
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PLOT DATE = 5/12/2021	CHECKED -	REVISED - M. GOMEZ 04-06-01
	DATE - 06-13-90	REVISED - R.BORO 01-01-07

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**BUTT JOINT AND HMA TAPER DETAILS**

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
535	118N-2	LAKE	57	45
BD400-05 BD32		CONTRACT NO. 60X57		
ILLINOIS FED. AID PROJECT				



**TYPICAL BENCHING DETAIL  
FOR EMBANKMENT**

**NOTES:**

- ① CONSTRUCT SUCCEEDING BENCH CUTS AND EMBANKMENT PLACEMENT AND COMPACTION FROM BOTTOM TO TOP IN STAIRSTEP FASHION.
- ② EXISTING FORESLOPE PREPARED IN ACCORDANCE WITH ARTICLE 205.03 OF THE STANDARD SPECIFICATIONS.
- ③ BENCH CUT EXISTING SLOPE TYPICAL FOR EACH STEP.
- ④ TRIM TO FINAL SLOPE.
- ⑤ EQUAL 8-INCH (200) LIFTS OF EMBANKMENT COMPACTED IN ACCORDANCE WITH ARTICLE 205.05 OF THE STANDARD SPECIFICATIONS.
- ⑥ EXCAVATION OF BENCH CUTS WITHIN EXISTING EMBANKMENT WILL BE PAID FOR AT THE CONTRACT UNIT PRICE PER CUBIC METER OR CUBIC YARD FOR "EARTH EXCAVATION". THIS PRICE WILL INCLUDE ALL LABOR AND MATERIAL, NO ADDITIONAL COMPENSATION WILL BE ALLOWED.
- ⑦ SLOPES SHALL BE BENCHED ACCORDING TO THIS DETAIL WHEN THE SLOPE IS STEEPER THAN 4:1 AND THE HEIGHT IS GREATER THAN 5' (1.5 m).

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

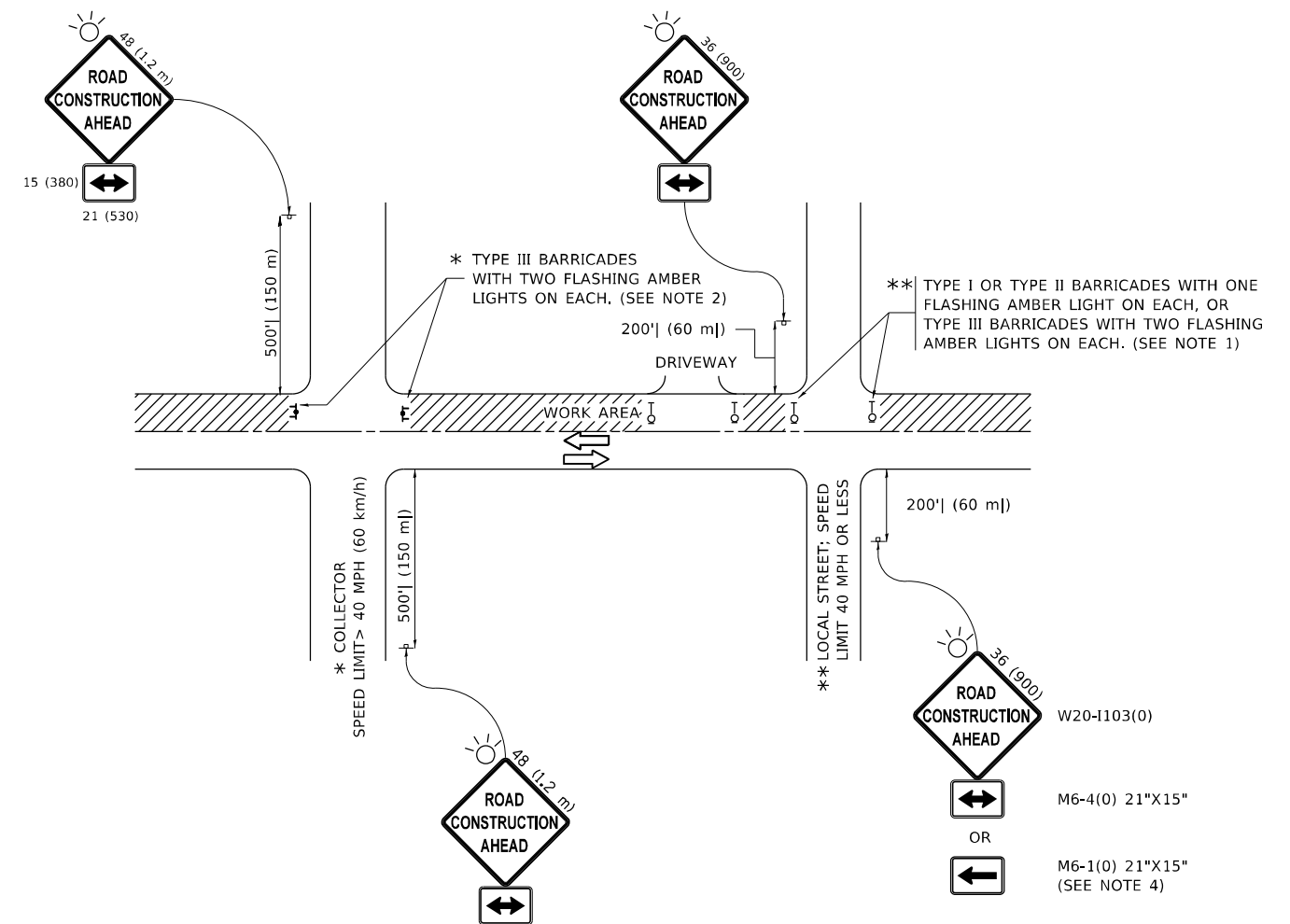
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USER NAME = guillaumefp	DESIGNED -	REVISED -
PLOT SCALE = 100,0000 ' / in.	DRAWN - CADD	REVISED -
PLOT DATE = 6/16/2021	CHECKED - S.E.B.	REVISED -
	DATE - 06-16-04	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

<b>BENCHING DETAIL FOR EMBANKMENT WIDENING</b>			
SCALE: NONE	SHEET 1	OF 1 SHEETS	STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
535	118N-2	LAKE	57	45A
<b>BD-51</b>			CONTRACT NO. 60X57	
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) 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. 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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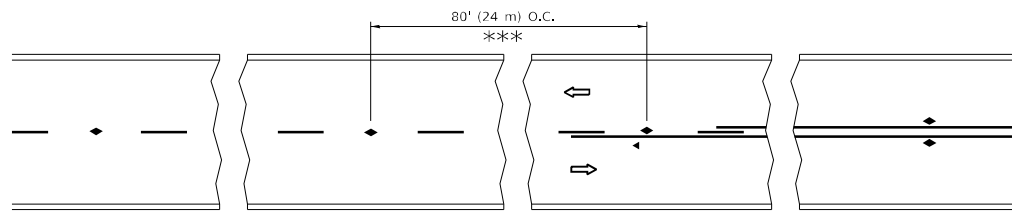
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PLOT DATE = 5/12/2021	DATE - 06-89	REVISED - A. SCHUETZE 07-01-13
		REVISED - A. SCHUETZE 09-15-16

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

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

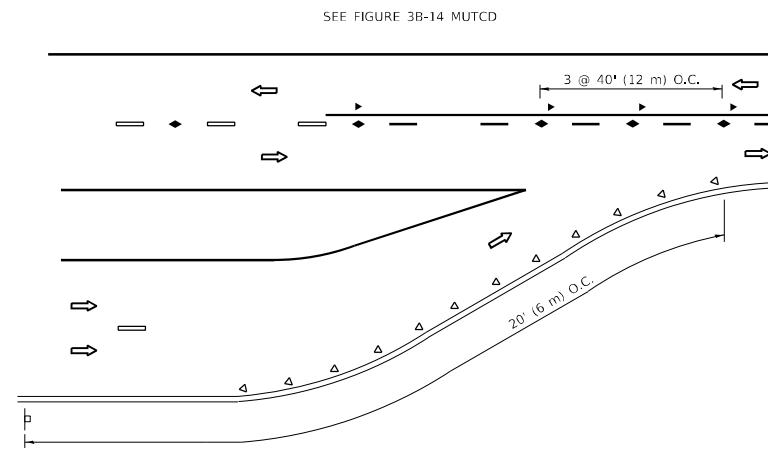
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F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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<b>TC-10</b>			CONTRACT NO. 60X57	
ILLINOIS FED. AID PROJECT				

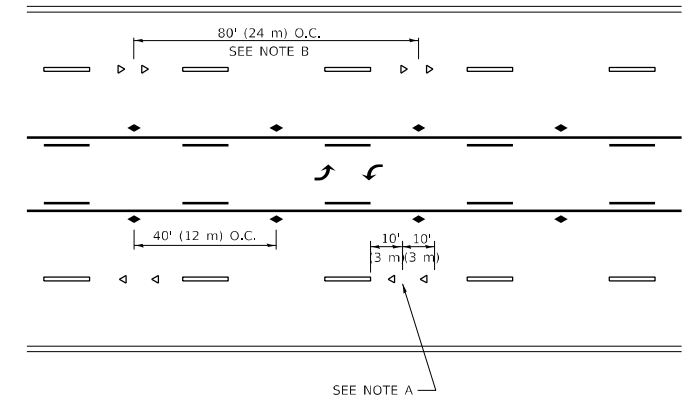


\*\*\* REDUCE TO 40' (12 m) O.C. ON CURVES WITH POSTED OR ADVISORY SPEED 45 M.P.H. (70 km/h) OR LESS.

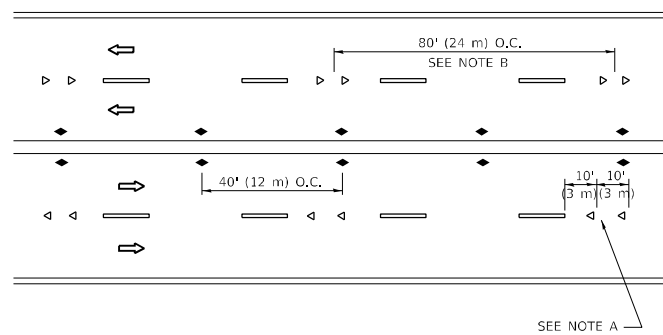
**TWO-LANE/TWO-WAY**



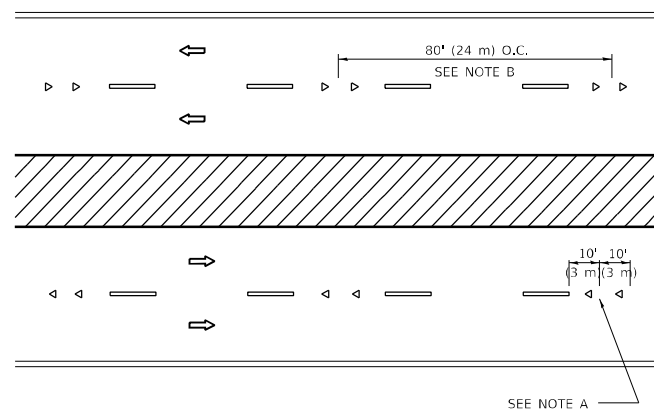
**LANE REDUCTION TRANSITION**



**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.
4. MARKERS ARE TO BE USED ADJACENT TO BOTH SOLID WHITE LINES IN DUAL LEFT TURN LANES

**SYMBOLS**

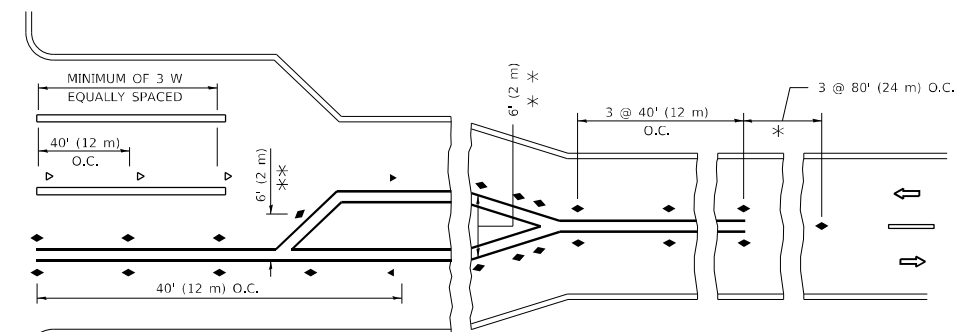
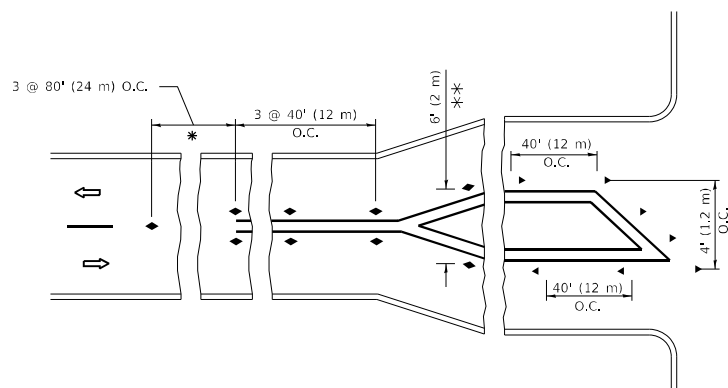
- YELLOW STRIPE
- WHITE STRIPE
- ◀ ONE-WAY AMBER MARKER
- ◀ ONE-WAY CRYSTAL MARKER (W/O)
- ◆ TWO-WAY AMBER MARKER

**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.

**TURN LANES**

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

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	DRAWN -	REVISED - T. RAMMACHER 01-06-00
PLOT SCALE = 100,0000' / in.	CHECKED -	REVISED - C. JUCIUS 09-09-09
PLOT DATE = 5/12/2021	DATE -	REVISED - C. JUCIUS 07-01-13

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

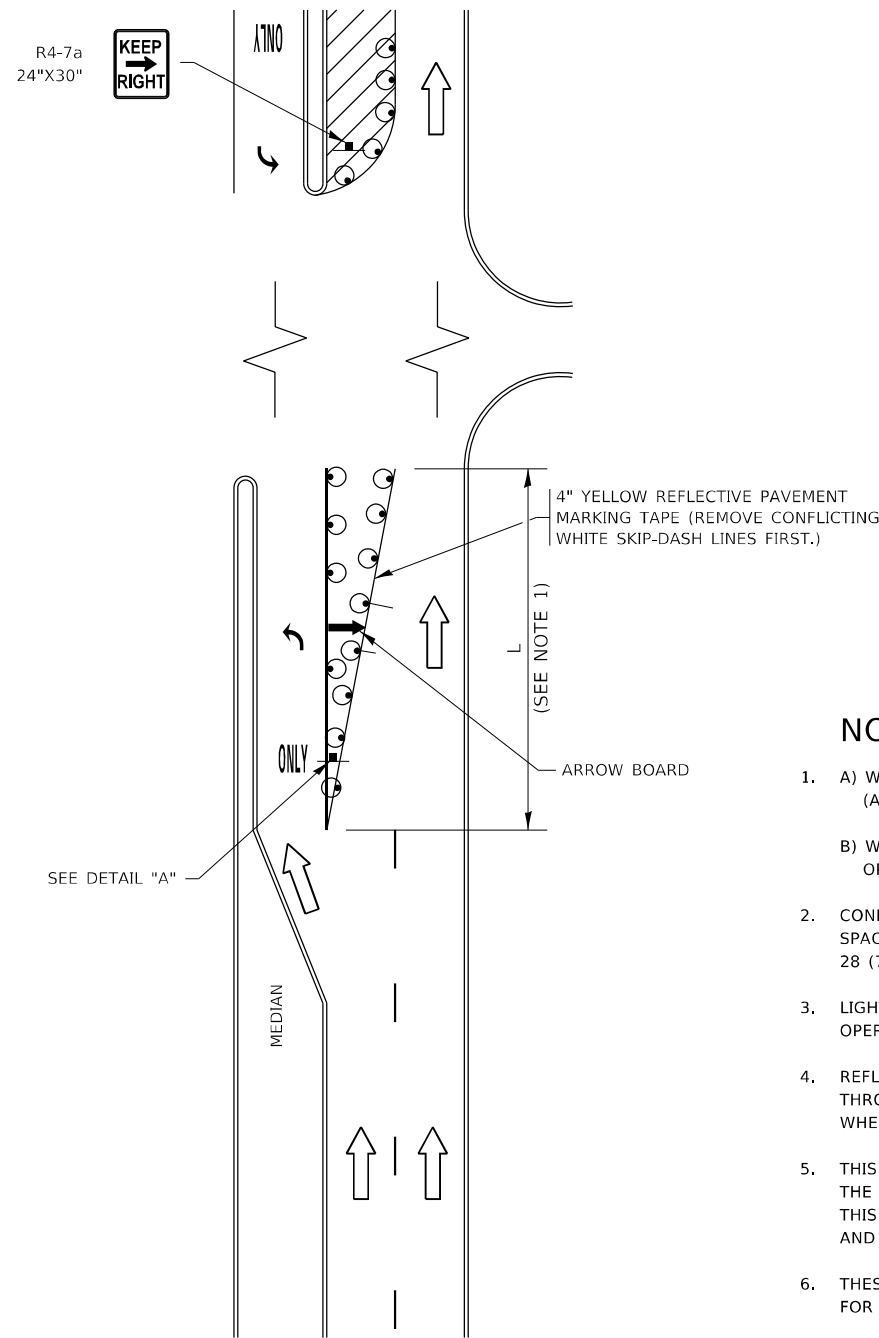
**TYPICAL APPLICATIONS  
 RAISED REFLECTIVE PAVEMENT MARKERS (SNOW-PLOW RESISTANT)**

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
535	118N-2	LAKE	57	47
TC-11		CONTRACT NO. 60X57		
ILLINOIS FED. AID PROJECT				

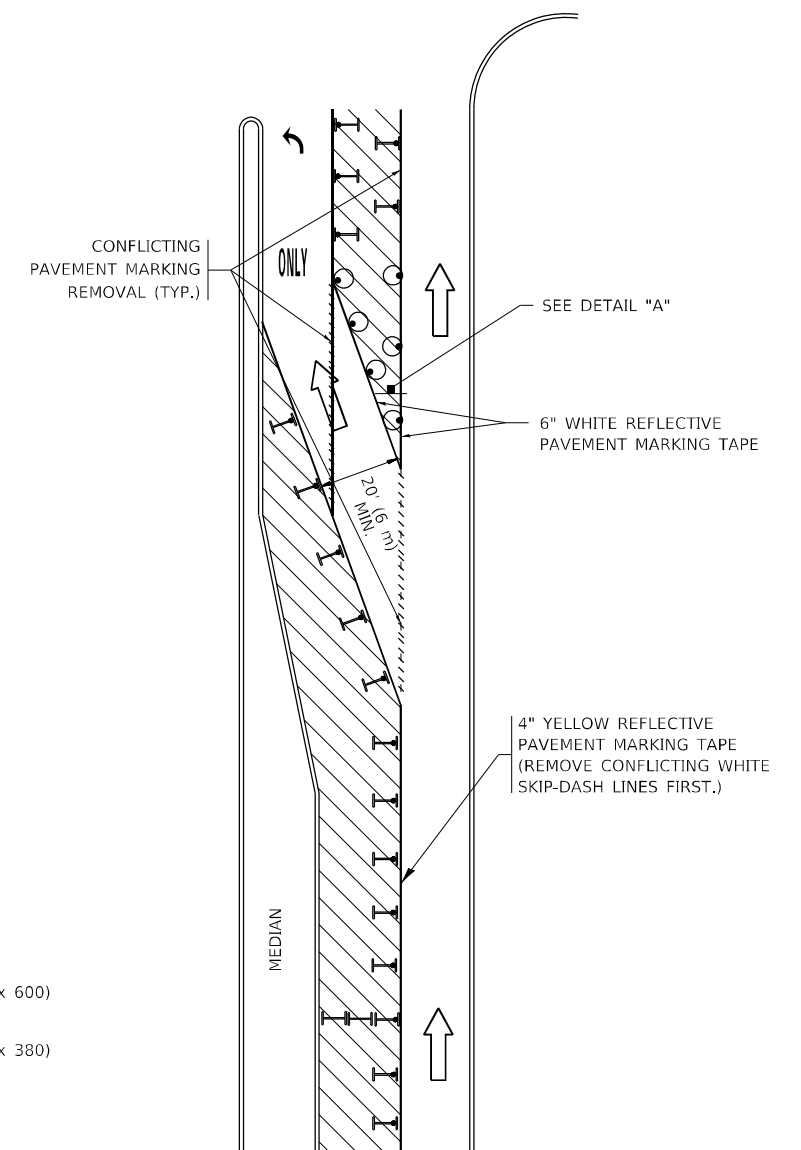


# TURN BAY ENTRANCE AT START OF LANE CLOSURE TAPER

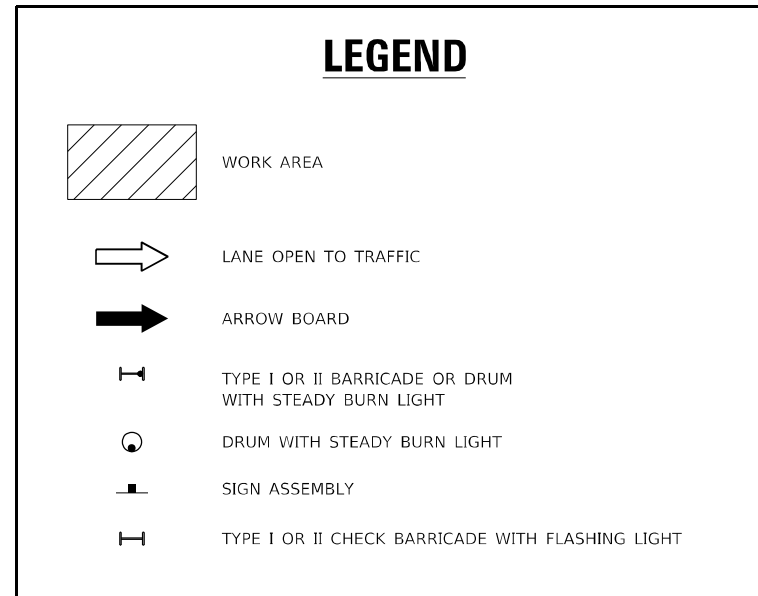


**FIGURE 1**

# TURN BAY ENTRANCE WITHIN A LANE CLOSURE

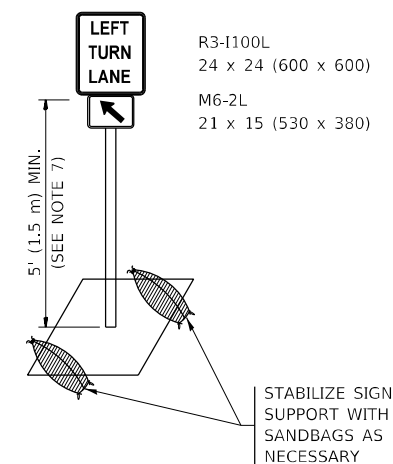


**FIGURE 2**



**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" R3-1100R 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 REQUIREMENTS.
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.



**DETAIL A**

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

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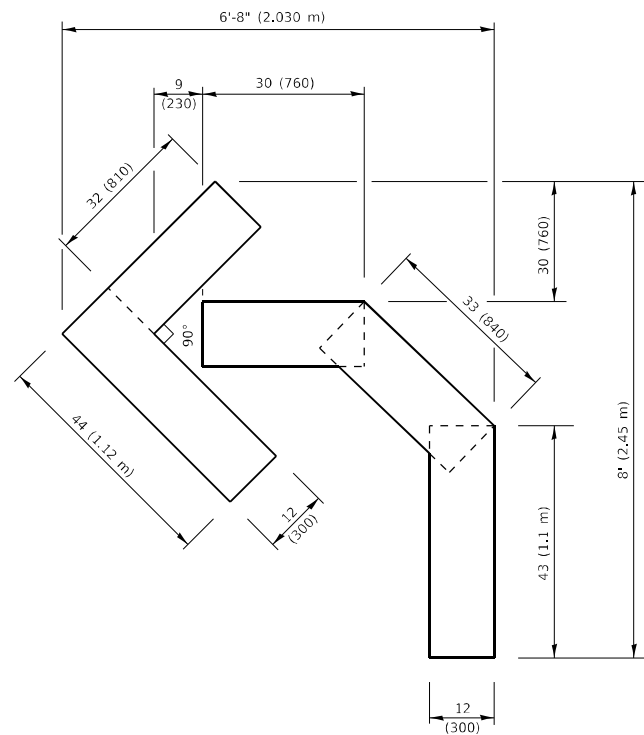
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PLOT SCALE = 100,0000' / in.	CHECKED - A. HOUSEH 10-12-96	REVISED - A. SCHUETZE 09-15-16
PLOT DATE = 5/12/2021	DATE - T. RAMMACHER 01-06-00	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**TRAFFIC CONTROL AND PROTECTION AT TURN BAYS  
(TO REMAIN OPEN TO TRAFFIC)**

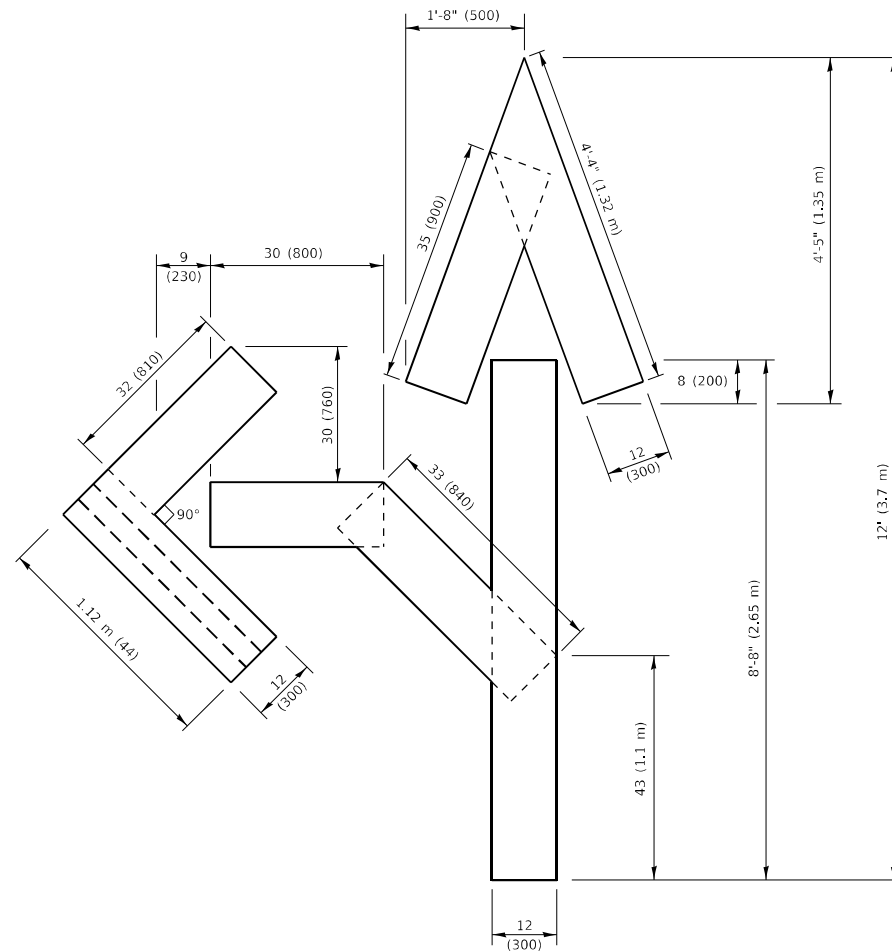
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F.A.P. RTE. 535	SECTION 118N-2	COUNTY LAKE	TOTAL SHEETS 57	SHEET NO. 49
TC-14		CONTRACT NO. 60X57		
ILLINOIS FED. AID PROJECT				



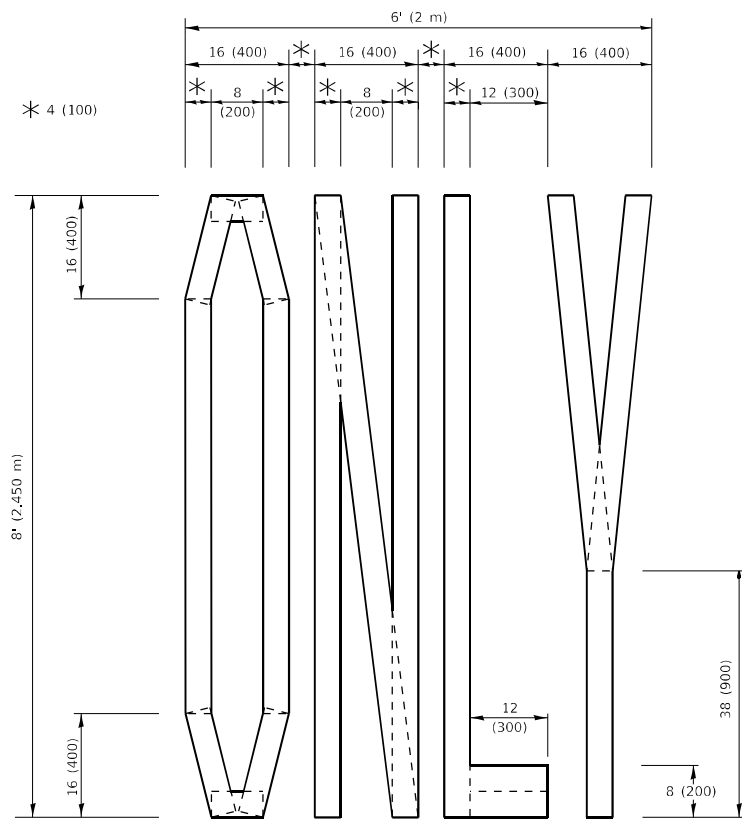
**QUANTITY**

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



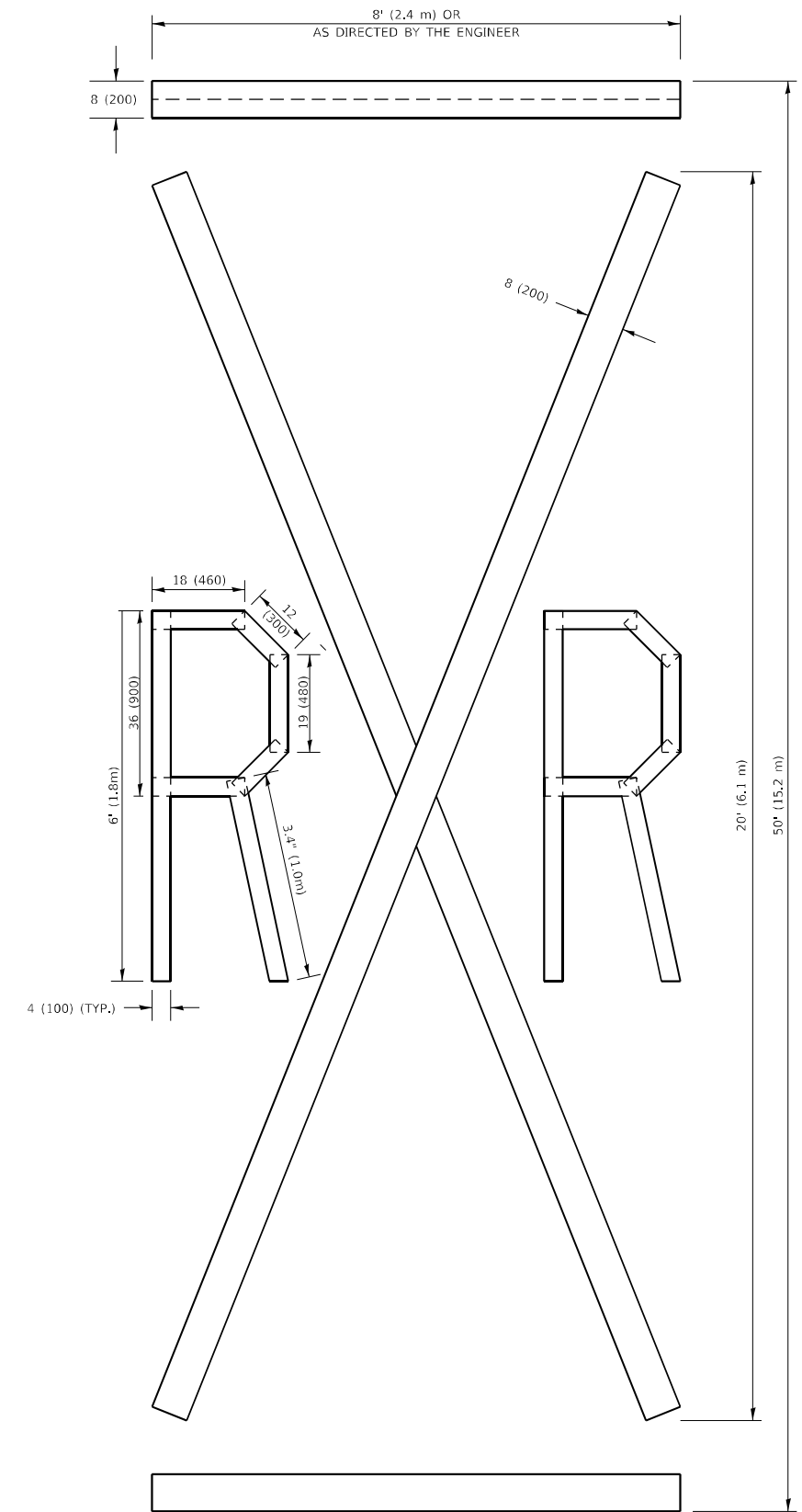
**QUANTITY**

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



**QUANTITY**

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



**QUANTITY**

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

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

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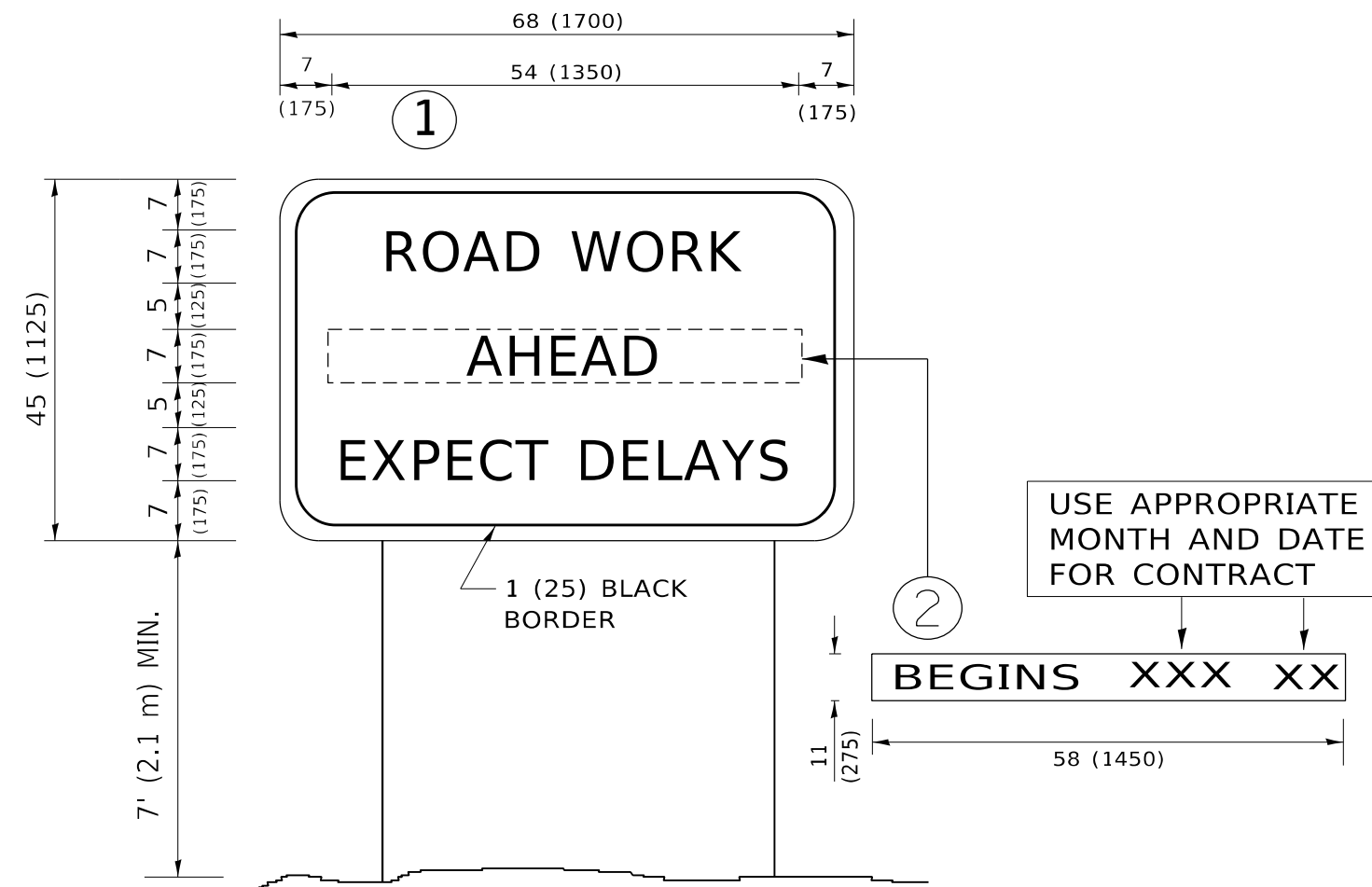
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PLOT DATE = 5/12/2021	CHECKED -	REVISED - E. GOMEZ 08-28-00
	DATE - 09-18-94	REVISED - A. SCHUETZE 09-15-16

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**SHORT TERM PAVEMENT MARKING LETTERS AND SYMBOLS**

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

F.A.P. RTE. 535	SECTION 118N-2	COUNTY LAKE	TOTAL SHEETS 57	SHEET NO. 50
<b>TC-16</b>		CONTRACT NO. 60X57		
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.

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	DATE -	REVISED - C. JUCIUS 01-31-07

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**ARTERIAL ROAD  
INFORMATION SIGN**

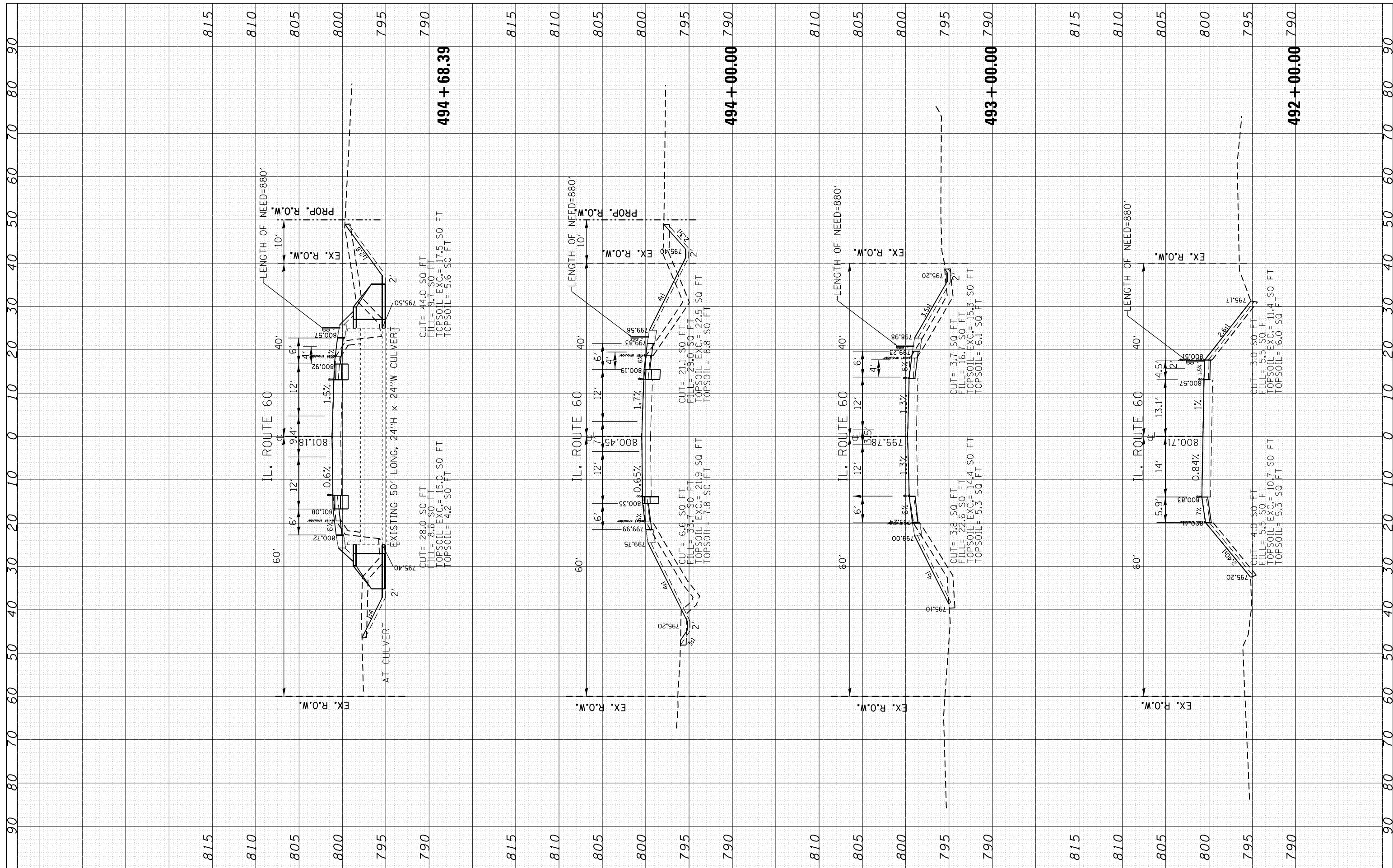
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F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
535	118N-2	LAKE	57	51
TC-22			CONTRACT NO. 60X57	
ILLINOIS FED. AID PROJECT				



FINIAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
AREAS	TEMPLATE		
CHECKED	AREAS		

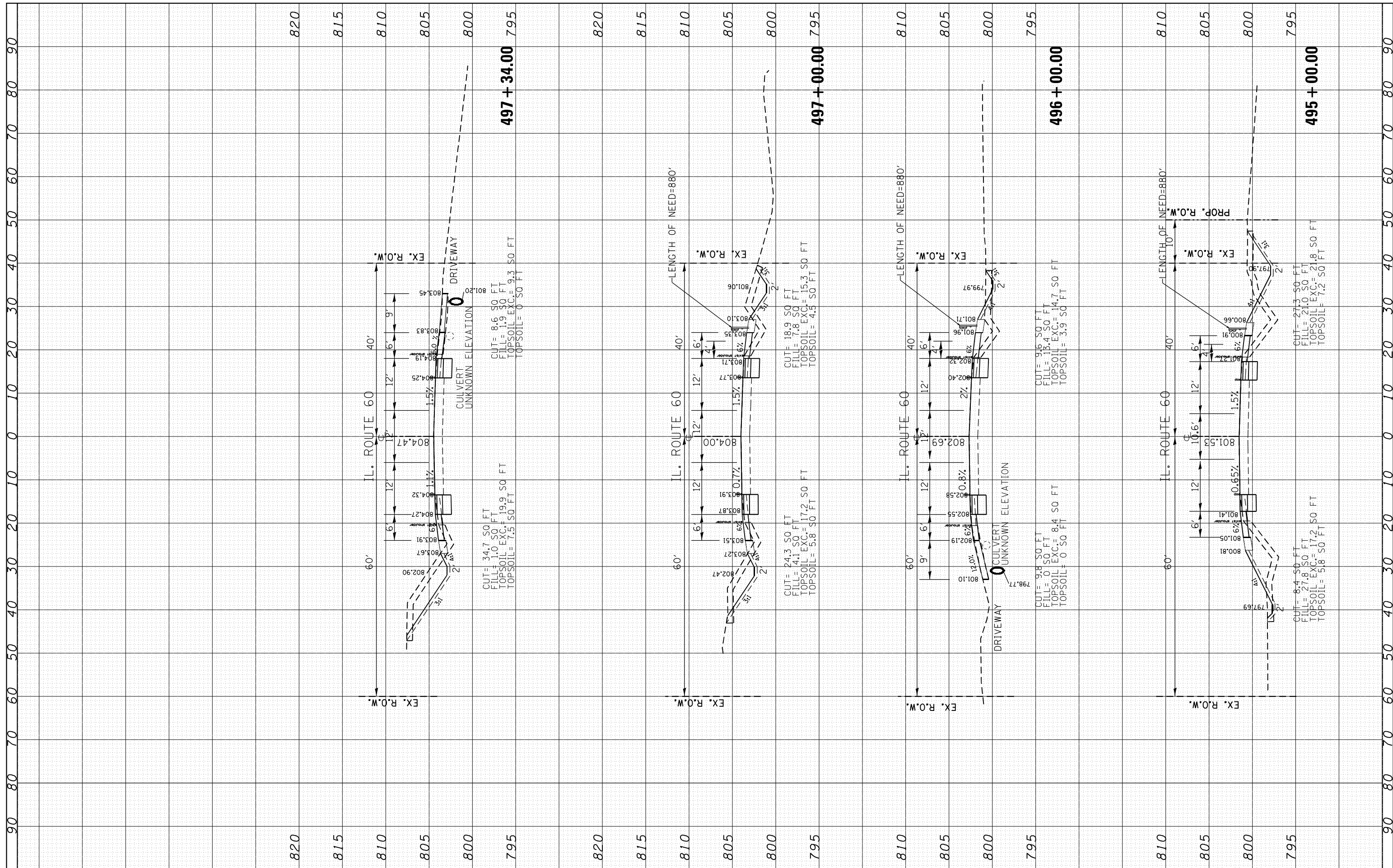
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DATE -	REVISIED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

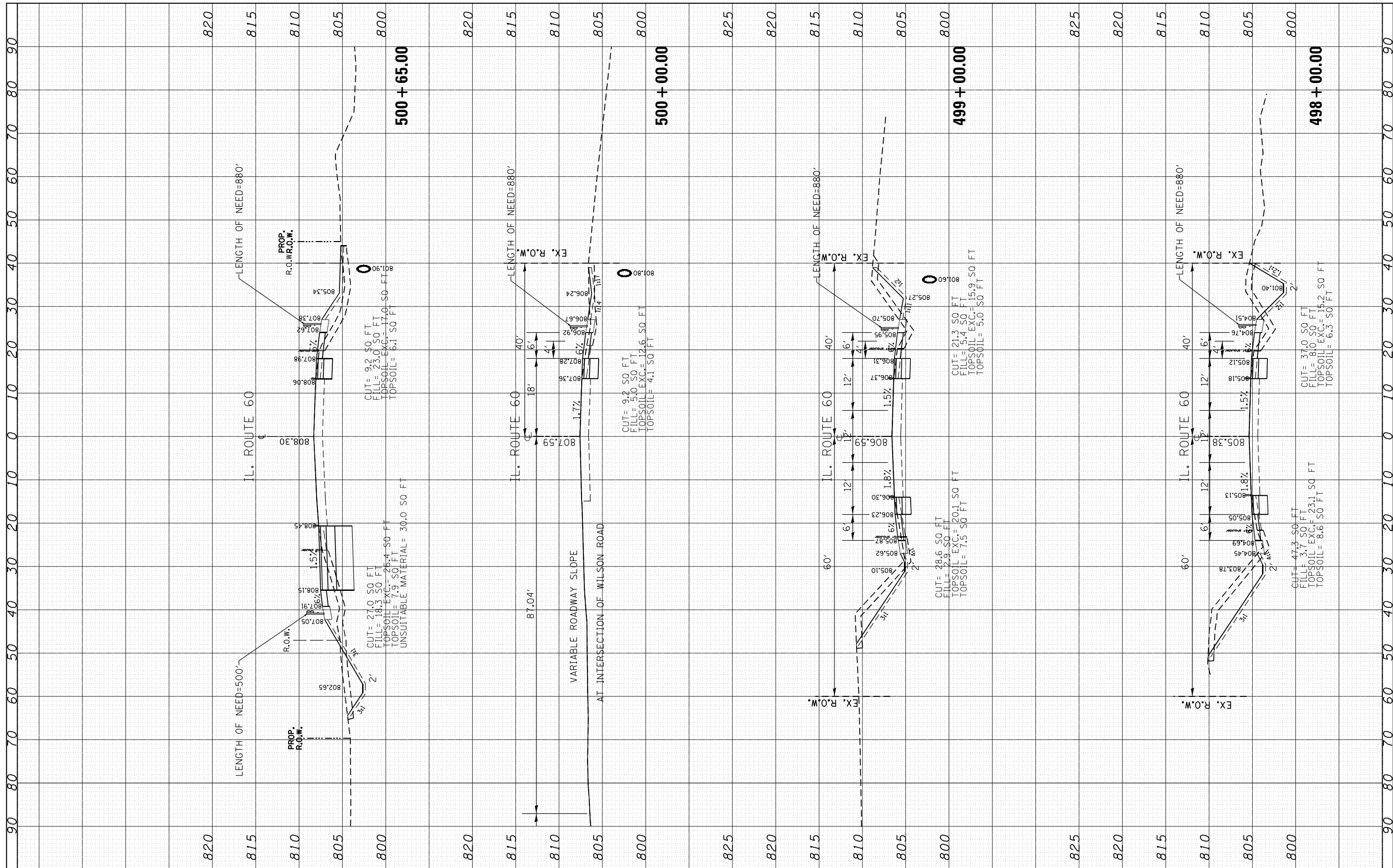
**CROSS SECTIONS  
IL. ROUTE 60 AT WILSON RD.**

SCALE: SHEET OF SHEETS STA. 495+00.00 TO STA. 497+34.00

F.A.P. RTE. 535	SECTION 118N-2	COUNTY LAKE	TOTAL SHEETS 57	SHEET NO. 53
CONTRACT NO. 60X57				ILLINOIS FED. AID PROJECT

FINIAL SURVEY	SURVEYED	BY	DATE
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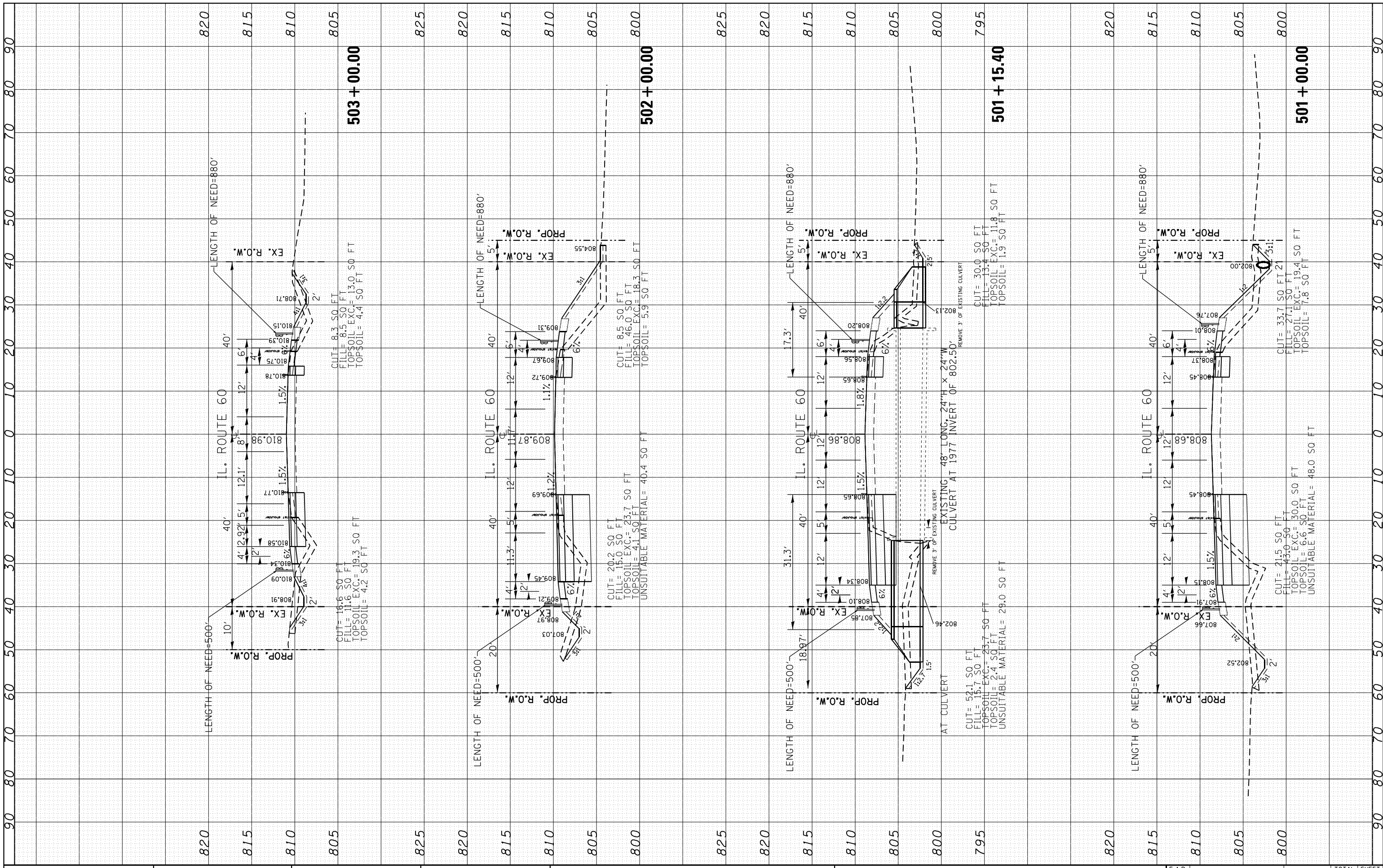
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NOTE BOOK	PLOTTED		
AREAS CHECKED	TEMPLATE		
	AREAS CHECKED		



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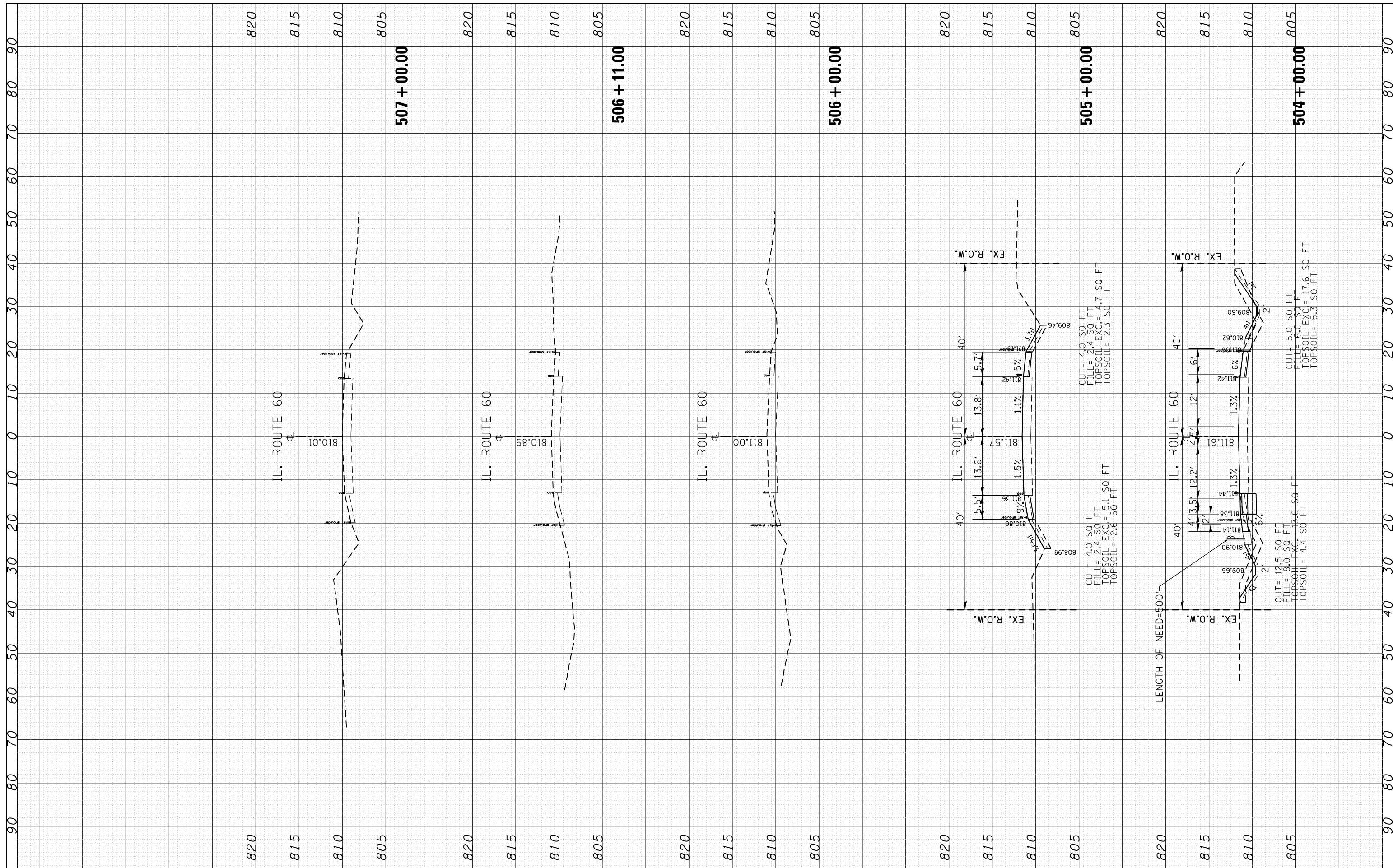
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STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION		CROSS SECTIONS IL. ROUTE 60 AT WILSON RD.	
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F.A.P. RTE. 535	SECTION 118N-2	COUNTY LAKE	TOTAL SHEETS 57 SHEET NO. 55
ILLINOIS FED. AID PROJECT		CONTRACT NO. 60X57	

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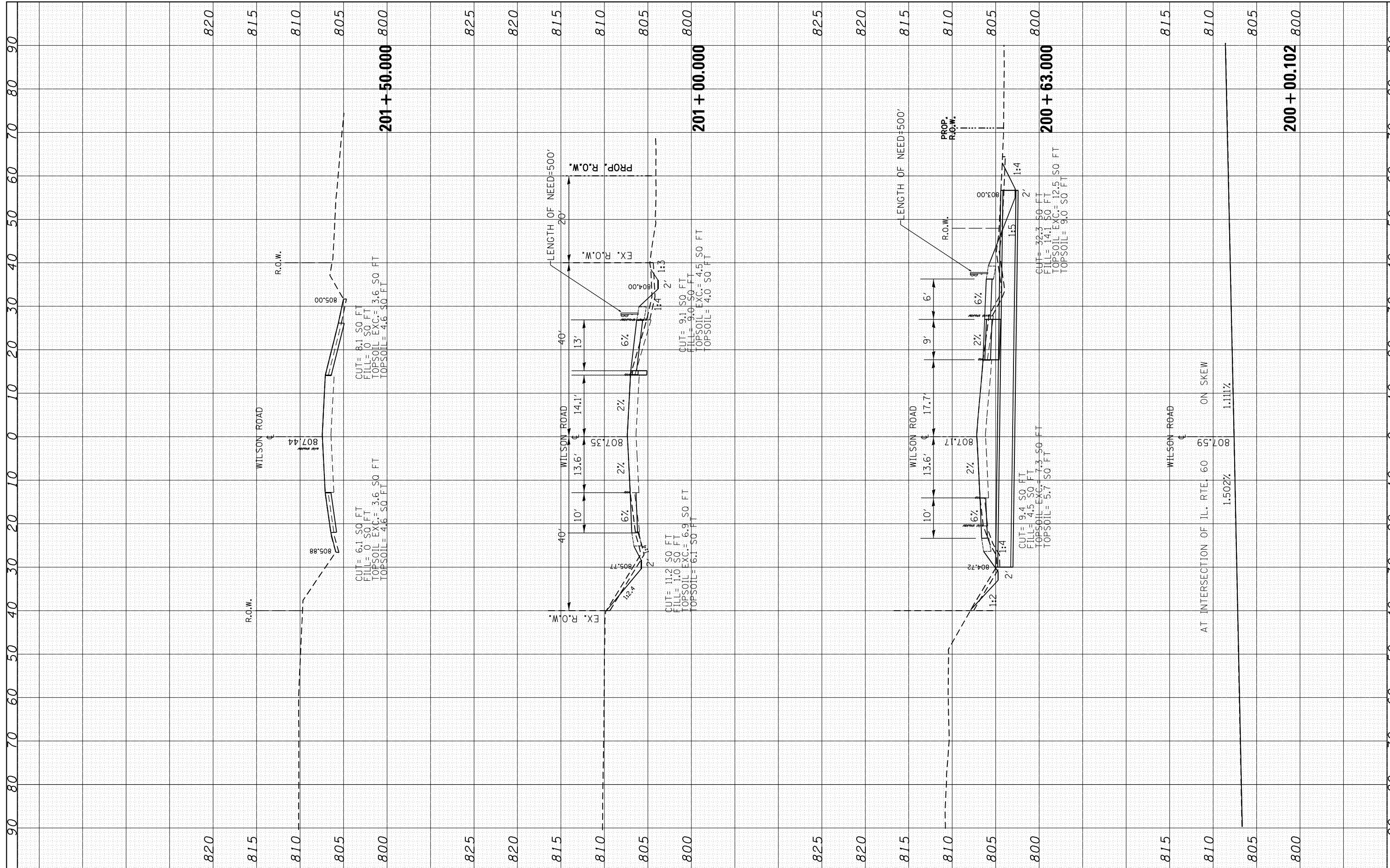
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	PLOT DATE = 6/16/2021	DATE -	REVISED -									

NO.	
AREAS CHECKED	
NOTE BOOK	
PLOTTED	
SURVEYED	
BY	
DATE	

NO.	
AREAS CHECKED	
NOTE BOOK	
PLOTTED	
SURVEYED	
BY	
DATE	



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	PLOT DATE = 6/16/2021	DATE -	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**CROSS SECTIONS  
IL. ROUTE 60 AT WILSON RD.**

SCALE: SHEET OF SHEETS STA. 200+00.102 TO STA. 201+50.000

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
535	118N-2	LAKE	57	57
CONTRACT NO. 60X57				
ILLINOIS FED. AID PROJECT				