

06-12-2015 LETTING ITEM 225

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

**PROPOSED
HIGHWAY PLANS**

F.A.P. ROUTE 337 (ILL 22)
AT OLD BARRINGTON RD
SECTION 19-N-2
PROJECT: ACNHPP-0337(011)

**WIDENING, CHANNELIZATION, RESURFACING
AND TRAFFIC SIGNAL INSTALLATION
LAKE COUNTY**

C-91-451-11

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
337	19-N-2	LAKE	8	1
ILLINOIS CONTRACT NO. 60P06				

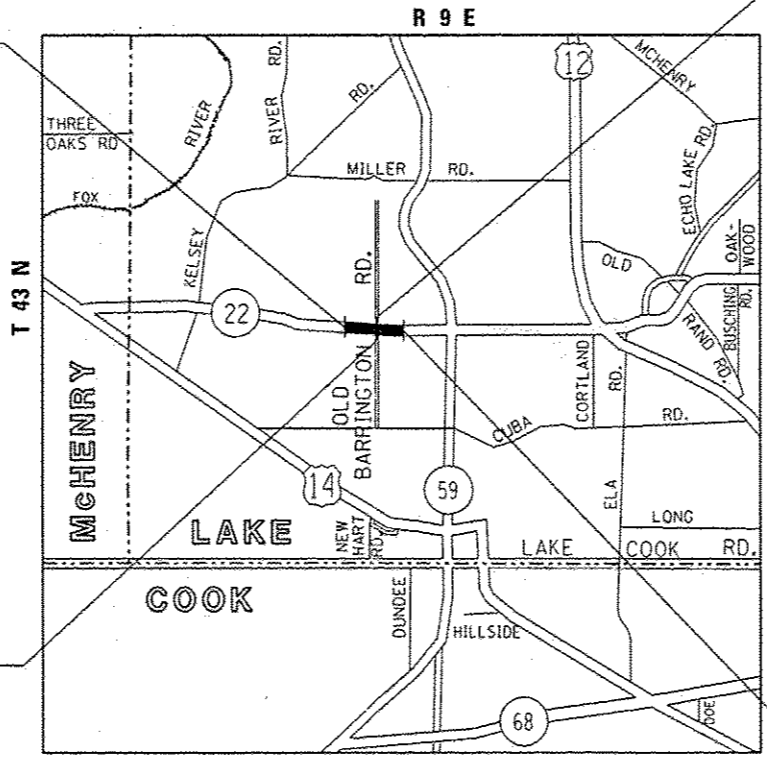
FOR INDEX OF SHEETS, SEE SHEET NO. 2

THIS PROJECT IS LOCATED IN THE
VILLAGE OF NORTH BARRINGTON AND
UNINCORPORATED CUBA TOWNSHIP



IMPROVEMENT BEGINS
STA 215 + 78.00

IMPROVEMENT ENDS
STA 52 + 69.60



IMPROVEMENT BEGINS
STA 50 + 94.00

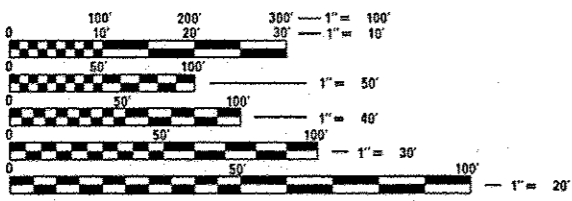
TRAFFIC DATA:

IL 22 2013 ADT = 13,800
POSTED SPEED = 50 MPH

OLD BARRINGTON RD:
NORTH LEG 2011 ADT = 1,800
POSTED SPEED = 35 MPH

SOUTH LEG 2011 ADT = 1,250
POSTED SPEED = 30 MPH

IMPROVEMENT ENDS
STA 230 + 53.67



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

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

PROJECT ENGINEER: KARI SMITH (847) 705-4437
PROJECT MANAGER: KEN ENG (847) 705-4247

CONTRACT NO. 60P06

GROSS AND NET LENGTH = 1475.67 LIN. FT. = 0.279 MILES

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

SUBMITTED February 9, 2015

John Fortman
DEPUTY DIRECTOR OF HIGHWAYS, REGION ENGINEER

May 8, 2015
D. D. Baranzoni PE
ENGINEER OF DESIGN AND ENVIRONMENT

May 8, 2015
Omec Osman PE
DIRECTOR OF HIGHWAYS, CHIEF ENGINEER

**PRINTED BY THE AUTHORITY
OF THE STATE OF ILLINOIS**

INDEX OF SHEETS

STATE STANDARDS

GENERAL NOTES

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- 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 REQUIRED)
- THE CONTRACTOR SHALL COORDINATE CONSTRUCTION ACTIVITIES WITH UTILITY COMPANIES, VILLAGE OF NORTH BARRINGTON AND CUBA TOWNSHIP.
- THE CONTRACTOR WILL NOT BE ALLOWED TO SET UP A YARD OR FIELD OFFICE ON STATE PROPERTY WITHOUT THE WRITTEN PERMISSION OF THE DEPARTMENT.
- THE CONTRACTOR SHALL CONTACT THE DISTRICT ONE TRAFFIC CONTROL SUPERVISOR AT (847) 705-4470 A MINIMUM OF 72 HOURS IN ADVANCE OF BEGINNING WORK.
- IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY ALL DIMENSIONS AND CONDITIONS EXISTING IN THE FIELD PRIOR TO CONSTRUCTION AND ORDERING OF MATERIALS.
- DO NOT SCALE PLANS FOR CONSTRUCTION DIMENSIONS.
- 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 RESIDENT ENGINEER.
- THE CONTRACTOR SHALL BE REQUIRED TO PROVIDE ACCESS TO ADJUTING PROPERTY AT ALL TIMES DURING THE CONSTRUCTION OF THIS PROJECT.
- ALL PAVEMENT PATCHING LOCATIONS WILL BE DETERMINED IN THE FIELD BY THE RESIDENT ENGINEER.
- EXISTING BROKEN FRAMES AND LIDS SHALL BE REMOVED AND DISPOSED OF BY THE CONTRACTOR AND SHALL BE REPLACED AS DIRECTED BY THE RESIDENT ENGINEER. REPLACEMENT FRAMES AND LIDS WILL BE PAID FOR ACCORDING TO ARTICLE 109.04 OF THE STANDARD SPECIFICATIONS UNLESS A SEPARATE PAY ITEM HAS BEEN PROVIDED.
- WHEN MILLED PAVEMENT IS OPEN TO TRAFFIC, THE MAXIMUM GRADE DIFFERENTIAL BETWEEN PASSES OF THE MILLING MACHINE SHALL NOT EXCEED 1/2 INCHES WHERE THE SPEED LIMIT IS 45 MPH OR LESS, AND 1 INCH WHERE THE SPEED LIMIT IS OVER 45 MPH. WITH WRITTEN APPROVAL FROM THE RESIDENT ENGINEER, A MAXIMUM GRADE DIFFERENTIAL OF 3 INCHES MAY BE ALLOWED IF THE EDGE OF THE MILLING IS SLOPED A MINIMUM OF 1V:3H.
- BUTT JOINTS WILL BE INSTALLED AT THE ENDS OF RESURFACING (WHERE RESURFACING MEETS EXISTING PAVEMENT) IN ACCORDANCE WITH THE "BUTT JOINT AND HMA TAPER DETAILS" SHEET INCLUDED IN THE PLANS, UNLESS OTHERWISE SPECIFIED.
- UNLESS OTHER CONDITIONS WARRANT EXTENDED LANE CLOSURE AS DETERMINED AND APPROVED IN WRITING BY THE RESIDENT ENGINEER OR AS PROVIDED FOR IN THE CONTRACT SPECIFICATIONS, OVERNIGHT CLOSURES SHALL NOT BE ALLOWED FOR REHABILITATION PROJECTS INVOLVING DAYTIME MILLING AND RESURFACING OPERATIONS AND CLASS D PATCHING.
- PAVEMENT MARKING TAPE, TYPE III SHALL BE USED FOR SHORT TERM PAVEMENT MARKINGS ON ALL FINAL SURFACES. THE COST OF THE PAVEMENT MARKING TAPE, TYPE III SHALL BE INCLUDED IN THE COST OF SHORT TERM PAVEMENT MARKING
- DOUBLE LANE MARKERS ARE TO BE USED AS SHOWN ON THE DISTRICT ONE DETAIL "TYPICAL APPLICATIONS - RAISED REFLECTIVE PAVEMENT MARKERS (SNOW-PLOW RESISTANT)" SHOWN IN THE PLANS.
- THE RESIDENT ENGINEER SHALL CONTACT WALTER CZARNY, AREA TRAFFIC FIELD ENGINEER AT (847) 715-8419, A MINIMUM OF 2 WEEKS PRIOR TO PLACEMENT OF PERMANENT PAVEMENT MARKINGS.
- MATCH EXISTING PAVEMENT MARKINGS AT PROJECT LIMITS
- ANY PAVEMENT MARKINGS AND RAISED REFLECTIVE PAVEMENT MARKERS OBLITERATED BY MILLING AND RESURFACING OPERATIONS ON SIDE STREETS AND ENTRANCES SHALL BE REPLACED AND PAID FOR IN KIND.
- ALL DAMAGE TO EXISTING PAVEMENT MARKINGS OR RAISED REFLECTIVE PAVEMENT MARKERS OUTSIDE THE REMOVAL LINE SHOWN ON THE PLANS SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE.
- FULL DEPTH SAWCUT OF REMOVAL ITEMS AS NOTED ON THE PLANS, SPECIFIED IN THE STANDARD SPECIFICATIONS, OR AS REQUIRED BY THE RESIDENT ENGINEER SHALL BE INCLUDED IN THE COST OF THE ITEM BEING REMOVED.
- THE REMOVAL OF GUARDRAIL TERMINAL SECTIONS SHALL BE INCLUDED IN THE UNIT PRICE PER FOOT FOR GUARDRAIL REMOVAL.

SEE SHEET 3 FOR CONTINUATION

FILE NAME :	USER NAME :	DESIGNED :	REVISED :	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	IL RTE 22 AT OLD BARRINGTON ROAD INDEX OF SHEETS, LIST OF STATE STANDARDS & GENERAL NOTES	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
ct:\pwr\prk\pudot\valchokov\09184109\	44509-ahg-gennote.dgn	DRAWN	REVISED			337	19-N-2	LAKE	81	2
Default	PLOT SCALE * 100.0000 / in.	CHECKED	REVISED					CONTRACT NO. 60PO6		
	PLOT DATE * 2/18/2015	DATE	REVISED			SCALE:	SHEET	OF	SHEETS	STA.

GENERAL NOTES (CONTINUED)

22. IF UNSUITABLE/UNSTABLE SOILS ARE ENCOUNTERED DURING CONSTRUCTION, THEY SHOULD BE REPLACED WITH MATERIAL THAT MEETS THE AGGREGATE SUBGRADE IMPROVEMENT SPECIAL PROVISION (CURRENT VERSION). THE ACTUAL NEED FOR REMOVAL AND REPLACEMENT WITH AGGREGATE SUBGRADE IMPROVEMENT SHOULD BE DETERMINED IN THE FIELD AT THE TIME OF CONSTRUCTION BY THE GEOTECHNICAL ENGINEER OR SOILS INSPECTOR. ALL POTENTIALLY UNSTABLE SOILS SHOULD BE TESTED WITH A CONE PENETROMETER AND TREATED IN ACCORDANCE WITH ARTICLE 301.04 OF THE STANDARD SPECIFICATIONS AND THE UNDERCUT GUIDELINES IN THE IDOT SUBGRADE STABILITY MANUAL. ANY MATERIAL NOT NEEDED AT THE TIME OF CONSTRUCTION FOR UNDERCUT REPLACEMENT SHOULD BE DELETED FROM THE CONTRACT WITH NO EXTRA COMPENSATION TO THE CONTRACTOR.
23. 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.
24. TEMPORARY FENCE SHALL BE INSTALLED AND MAINTAINED AT THE LIMITS OF CONSTRUCTION WHERE THE OFFSITE ELEVATIONS ARE HIGHER THAN THE WORK ZONE AND AT THE EDGE OF ALL WETLANDS AND WATERS NOT TO BE IMPACTED.
25. THE DEPARTMENT HAS NOT OBTAINED ANY PERMITS FOR OFFSITE BORROW, 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 SHALL 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 II.G.1 AND 2 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.
26. IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO VERIFY ALL DIMENSIONS AND CONDITIONS EXISTING IN THE FIELD PRIOR TO ORDERING MATERIALS AND BEGINNING CONSTRUCTION. THIS SHALL INCLUDE LOCATING THE MAST ARM FOUNDATIONS AND VERIFYING THE MAST ARMS LENGTHS.
27. THE EXACT LOCATION OF ALL UTILITIES SHALL BE VERIFIED BY THE CONTRACTOR BEFORE ORDERING ANY MATERIALS AND STARTING ANY WORK. FOR LOCATIONS OF UTILITIES, LOCALLY OWNED EQUIPMENT, LEASED ENFORCEMENT CAMERA SYSTEM FACILITIES AND IDOT UNDERGROUND FACILITIES, CONTACT THE LOCAL COUNTIES, MUNICIPALITIES AND IDOT FOR LOCATES. THE CONTRACTOR SHALL CALL "JULIE" AT (800) 892-0123 OR 811. IN THE CITY OF CHICAGO CONTACT DIGGER AT (312) 744-7000 FOR FIELD LOCATIONS OF BURIED UTILITIES (48 HOURS NOTIFICATION REQUIRED).
28. 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.
29. THE CONTRACTOR SHALL COORDINATE CONSTRUCTION ACTIVITIES WITH UTILITY COMPANIES, LOCAL GOVERNMENT AGENCIES AND IDOT.

FILE NAME *	USER NAME * Vellohkavvy	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	IL RTE 22 AT OLD BARRINGTON ROAD INDEX OF SHEETS, LIST OF STATE STANDARDS & GENERAL NOTES	P.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
c:\pwwork\p\rdot\velo\kavvy\d01941091	44509-shr-gennote.dgn	DRAWN -	REVISED -			337	19-N-2	LAKE	81	3	
Default	PLOT SCALE * 100.0000 / in.	CHECKED -	REVISED -			CONTRACT NO. 60P06					
	PLOT DATE * 2/10/2015	DATE -	REVISED -			SCALE:	SHEET	OF	SHEETS	STA.	TO STA.

URBAN

SUMMARY OF QUANTITIES			CONSTRUCTION TYPE CODE					
CODE NO	ITEM	UNIT	TOTAL QUANTITIES	0004 80% FED 20% STATE ROADWAY	0021 80% FED 10% STATE 5% VILL 5% TWP T. SIGNAL	0021 100% LAKE ZURICH F.P.D. E.V.P.		
* 20100110	TREE REMOVAL (6 TO 15 UNITS DIAMETER)	UNIT	20	20				
* 20100500	TREE REMOVAL, ACRES	ACRE	1.24	1.24				
* 20101000	TEMPORARY FENCE	FOOT	50	50				
* 20101100	TREE TRUNK PROTECTION	EACH	10	10				
* 20101200	TREE ROOT PRUNING	EACH	10	10				
* 20101300	TREE PRUNING (1 TO 10 INCH DIAMETER)	EACH	10	10				
20200100	EARTH EXCAVATION	CU YD	4283	4283				
20201200	REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL	CU YD	2429	2429				
20800150	TRENCH BACKFILL	CU YD	39	39				
21001000	GEOTECHNICAL FABRIC FOR GROUND STABILIZATION	SQ YD	548	548				
21101505	TOPSOIL EXCAVATION AND PLACEMENT	CU YD	3732	3732				
* 21101805	COMPOST FURNISH AND PLACE, 2"	SQ YD	445	445				
21400100	GRADING AND SHAPING DITCHES	FOOT	47	47				
* 25000210	SEEDING, CLASS 2A	ACRE	0.36	0.36				
* 25000400	NITROGEN FERTILIZER NUTRIENT	POUND	33	33				

URBAN

SUMMARY OF QUANTITIES			CONSTRUCTION TYPE CODE					
CODE NO	ITEM	UNIT	TOTAL QUANTITIES	0004 80% FED 20% STATE ROADWAY	0021 80% FED 10% STATE 5% VILL 5% TWP T. SIGNAL	0021 100% LAKE ZURICH F.P.D. E.V.P.		
* 25000600	POTASSIUM FERTILIZER NUTRIENT	POUND	33	33				
25100115	MULCH, METHOD 2	ACRE	1.8	1.8				
25100630	EROSION CONTROL BLANKET	SQ YD	7508	7508				
25100635	HEAVY DUTY EROSION CONTROL BLANKET	SQ YD	1217	1217				
* 25100900	TURF REINFORCEMENT MAT	SQ YD	536	536				
* 25200200	SUPPLEMENTAL WATERING	UNIT	7	7				
28000250	TEMPORARY EROSION CONTROL SEEDING	POUND	181	181				
28000305	TEMPORARY DITCH CHECKS	FOOT	310	310				
28000400	PERIMETER EROSION BARRIER	FOOT	5180	5180				
28001200	TEMPORARY HEAVY DUTY EROSION CONTROL BLANKET	SQ YD	1217	1217				
28100105	STONE RIPRAP, CLASS A3	SQ YD	10	10				
28100107	STONE RIPRAP, CLASS A4	SQ YD	60	60				
28200200	FILTER FABRIC	SQ YD	70	70				
30300001	AGGREGATE SUBGRADE IMPROVEMENT	CU YD	397	397				
30300112	AGGREGATE SUBGRADE IMPROVEMENT 12"	SQ YD	3507	3507				

FILE NAME *	USER NAME * Volkmar	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	IL ROUTE 22 AT OLD BARRINGTON ROAD SUMMARY OF QUANTITIES	F.A.P. RTE. 337	SECTION 19-N-2	COUNTY LAKE	TOTAL SHEETS 81	SHEET NO. 4	
PLT SCALE * 100.0000' / 1"	CHECKED -	REVISED -	SCALE:			SHEET NO. OF SHEETS	STA. TO STA.	FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT			
PLT DATE * 2/10/2005	DATE -	REVISED -	* = SPECIALTY ITEMS								

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URBAN

URBAN

SUMMARY OF QUANTITIES			CONSTRUCTION TYPE CODE					
CODE NO	ITEM	UNIT	TOTAL QUANTITIES	0004 80% FED 20% STATE ROADWAY	0021 80% FED 10% STATE 5% VILL 5% TWP T. SIGNAL	0021 100% LAKE ZURICH F.P.D. E.V.P.		
31101200	SUBBASE GRANULAR MATERIAL, TYPE B 4"	SQ YD	594	594				
35501308	HOT-MIX ASPHALT BASE COURSE, 6"	SQ YD	195	195				
35600706	HOT-MIX ASPHALT BASE COURSE WIDENING, 7 1/2"	SQ YD	1515	1515				
40600275	BITUMINOUS MATERIALS (PRIME COAT)	POUND	4800	4800				
40600400	MIXTURE FOR CRACKS, JOINTS, AND FLANGEWAYS	TON	8	8				
40600635	LEVELING BINDER (MACHINE METHOD), N70	TON	243	243				
40600982	HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT	SQ YD	52	52				
40603340	HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N70	TON	620	620				
44000100	PAVEMENT REMOVAL	SQ YD	622	622				
44000158	HOT-MIX ASPHALT SURFACE REMOVAL, 2 1/4"	SQ YD	4955	4955				
44000200	DRIVEWAY PAVEMENT REMOVAL	SQ YD	283	283				
44004250	PAVED SHOULDER REMOVAL	SQ YD	250	250				
44201769	CLASS D PATCHES, TYPE III, 10 INCH	SQ YD	36	36				
44201789	CLASS D PATCHES, TYPE II, 12 INCH	SQ YD	30	30				

SUMMARY OF QUANTITIES			CONSTRUCTION TYPE CODE					
CODE NO	ITEM	UNIT	TOTAL QUANTITIES	0004 80% FED 20% STATE ROADWAY	0021 80% FED 10% STATE 5% VILL 5% TWP T. SIGNAL	0021 100% LAKE ZURICH F.P.D. E.V.P.		
44201794	CLASS D PATCHES, TYPE III, 12 INCH	SQ YD	10	10				
44201796	CLASS D PATCHES, TYPE IV, 12 INCH	SQ YD	142	142				
44300200	STRIP REFLECTIVE CRACK CONTROL TREATMENT	FOOT	3091	3091				
48102100	AGGREGATE WEDGE SHOULDER, TYPE B	TON	62	62				
48203030	HOT-MIX ASPHALT SHOULDERS, 8 1/4"	SQ YD	1333	1333				
50100100	REMOVAL OF EXISTING STRUCTURES	EACH	1	1				
50105220	PIPE CULVERT REMOVAL	FOOT	329	329				
54001001	BOX CULVERT END SECTIONS, CULVERT NO. 1	EACH	2	2				
54010502	PRECAST CONCRETE BOX CULVERTS 5' X 2'	FOOT	44	44				
54213660	PRECAST REINFORCED CONCRETE FLARED END SECTIONS 15"	EACH	4	4				
54213669	PRECAST REINFORCED CONCRETE FLARED END SECTIONS 24"	EACH	2	2				
54214527	PRECAST REINFORCED CONCRETE FLARED END SECTIONS, EQUIVALENT ROUND-SIZE 42"	EACH	2	2				
54215559	METAL END SECTIONS 24"	EACH	6	6				
54260311	TRAVERSABLE PIPE GRATE	FOOT	67	67				* = SPECIALTY ITEMS

FILE NAME :	USER NAME : veltmorr	DESIGNED -	REVISED -
		DRAWN -	REVISED -
		CHECKED -	REVISED -
		DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

IL ROUTE 22 AT OLD BARRINGTON ROAD SUMMARY OF QUANTITIES				F.A.P. RTE. 337	SECTION 19-N-2	COUNTY LAKE	TOTAL SHEETS 81	SHEET NO. 5
SCALE:	SHEET NO.	OF	SHEETS	STA.	TO	STA.	CONTRACT NO. 60P06	
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT								

URBAN

SUMMARY OF QUANTITIES			CONSTRUCTION TYPE CODE					
CODE NO	ITEM	UNIT	TOTAL QUANTITIES	0004 80% FED 20% STATE ROADWAY	0021 80% FED 10% STATE 5% VILL 5% TWP T. SIGNAL	0021 100% LAKE ZURICH F.P.D. E.V.P.		
542A5497	PIPE CULVERTS, CLASS A, TYPE 1	FOOT	68	68				
	EQUIVALENT ROUND-SIZE 42"							
542D0229	PIPE CULVERTS, CLASS D, TYPE 1 24"	FOOT	60	60				
542D5470	PIPE CULVERTS, CLASS D, TYPE 1	FOOT	89	89				
	EQUIVALENT ROUND-SIZE 15"							
54390180	INSERTION CULVERT LINER 24"	FOOT	220.4	220.4				
60100060	CONCRETE HEADWALLS FOR PIPE DRAINS	EACH	6	6				
60107600	PIPE UNDERDRAINS 4"	FOOT	800	800				
60108100	PIPE UNDERDRAINS 4" (SPECIAL)	FOOT	100	100				
63200310	GUARDRAIL REMOVAL	FOOT	726	726				
* 66900200	NON-SPECIAL WASTE DISPOSAL	CU YD	2325	2325				
* 66900450	SPECIAL WASTE PLANS AND REPORTS	L SUM	1	1				
* 66900530	SOIL DISPOSAL ANALYSIS	EACH	1	1				
67000400	ENGINEER'S FIELD OFFICE, TYPE A	CAL MO	6	6				
67100100	MOBILIZATION	L SUM	1	1				
70106800	CHANGEABLE MESSAGE SIGN	CAL MO	2	2				
70300100	SHORT TERM PAVEMENT MARKING	FOOT	2715	2715				

URBAN

SUMMARY OF QUANTITIES			CONSTRUCTION TYPE CODE					
CODE NO	ITEM	UNIT	TOTAL QUANTITIES	0004 80% FED 20% STATE ROADWAY	0021 80% FED 10% STATE 5% VILL 5% TWP T. SIGNAL	0021 100% LAKE ZURICH F.P.D. E.V.P.		
70300210	TEMPORARY PAVEMENT MARKING LETTERS AND SYMBOLS	SQ FT	73	73				
70300220	TEMPORARY PAVEMENT MARKING - LINE 4"	FOOT	7411	7411				
70300240	TEMPORARY PAVEMENT MARKING - LINE 6"	FOOT	230	230				
70300260	TEMPORARY PAVEMENT MARKING - LINE 12"	FOOT	100	100				
70300280	TEMPORARY PAVEMENT MARKING - LINE 24"	FOOT	86	86				
70301000	WORK ZONE PAVEMENT MARKING REMOVAL	SQ FT	8746	8746				
70400100	TEMPORARY CONCRETE BARRIER	FOOT	350	350				
70600260	IMPACT ATTENUATORS, TEMPORARY (FULLY REDIRECTIVE, NARROW), TEST LEVEL 3	EACH	2	2				
* 72000100	SIGN PANEL - TYPE 1	SQ FT	76.5	63	13.5			
* 72000200	SIGN PANEL - TYPE 2	SQ FT	91	67	24			
* 72300100	INSTALL EXISTING SIGN PANEL	SQ FT	30	30				
* 72400100	REMOVE SIGN PANEL ASSEMBLY - TYPE A	EACH	17	17				
* 72400200	REMOVE SIGN PANEL ASSEMBLY - TYPE B	EACH	1	1				
* 72900100	METAL POST - TYPE A	FOOT	164	164				

* = SPECIALTY ITEMS

URBAN

URBAN

SUMMARY OF QUANTITIES			CONSTRUCTION TYPE CODE					
CODE NO	ITEM	UNIT	TOTAL QUANTITIES	0004 80% FED 20% STATE ROADWAY	0021 80% FED 10% STATE 5% VILL 5% TWP T. SIGNAL	0021 100% LAKE ZURICH F.P.D. E.V.P.		
* 78000100	THERMOPLASTIC PAVEMENT MARKING - LETTERS AND SYMBOLS	SQ FT	73	73				
* 78000200	THERMOPLASTIC PAVEMENT MARKING - LINE 4"	FOOT	7411	7411				
* 78000400	THERMOPLASTIC PAVEMENT MARKING - LINE 6"	FOOT	230	230				
* 78000600	THERMOPLASTIC PAVEMENT MARKING - LINE 12"	FOOT	100	100				
* 78000650	THERMOPLASTIC PAVEMENT MARKING - LINE 24"	FOOT	86	86				
* 78100100	RAISED REFLECTIVE PAVEMENT MARKER	EACH	2	2				
* 78200530	BARRIER WALL MARKERS, TYPE C	EACH	30	30				
78300100	PAVEMENT MARKING REMOVAL	SQ FT	500	500				
78300200	RAISED REFLECTIVE PAVEMENT MARKER REMOVAL	EACH	2	2				
* 80500020	SERVICE INSTALLATION - POLE MOUNTED	EACH	1		1			
* 81028200	UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA.	FOOT	640		640			
* 81028210	UNDERGROUND CONDUIT, GALVANIZED STEEL, 2 1/2" DIA.	FOOT	50		50			

SUMMARY OF QUANTITIES			CONSTRUCTION TYPE CODE					
CODE NO	ITEM	UNIT	TOTAL QUANTITIES	0004 80% FED 20% STATE ROADWAY	0021 80% FED 10% STATE 5% VILL 5% TWP T. SIGNAL	0021 100% LAKE ZURICH F.P.D. E.V.P.		
* 81028220	UNDERGROUND CONDUIT, GALVANIZED STEEL, 3" DIA.	FOOT	81		81			
* 81028240	UNDERGROUND CONDUIT, GALVANIZED STEEL, 4" DIA.	FOOT	216		216			
* 81400200	HEAVY-DUTY HANDHOLE	EACH	7		7			
* 81400300	DOUBLE HANDHOLE	EACH	1		1			
* 87301225	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	260			260		
* 87301245	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	FOOT	1210			1210		
* 87301255	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C	FOOT	600			600		
* 87301305	ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1 PAIR	FOOT	1175			1175		
* 87301805	ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2 C	FOOT	50			50		
* 87301900	ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C	FOOT	530			530		
* 87502480	TRAFFIC SIGNAL POST, GALVANIZED STEEL 14 FT.	EACH	2		2			

* = SPECIALTY ITEMS

FILE NAME :	USER NAME : ValicMarty	DESIGNED -	REVISED -
c:\pwwork\valic\marty\1000000\1144500-21-500.dgn		DRAWN -	REVISED -
		CHECKED -	REVISED -
		DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL ROUTE 22 AT OLD BARRINGTON ROAD SUMMARY OF QUANTITIES				F.A.P. RTE. 337	SECTION 19-N-2	COUNTY LAKE	TOTAL SHEETS 81	SHEET NO. 7
SCALE:	SHEET NO.	OF SHEETS	STA.	TO STA.	FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT			

URBAN

SUMMARY OF QUANTITIES			CONSTRUCTION TYPE CODE					
CODE NO	ITEM	UNIT	TOTAL QUANTITIES	0004 80% FED 20% STATE ROADWAY	0021 80% FED 10% STATE 5% VILL 5% TWP T. SIGNAL	0021 100% LAKE ZURICH F.P.D. E.V.P.		
* 87502500	TRAFFIC SIGNAL POST, GALVANIZED STEEL 16 FT.	EACH	2		2			
* 87700180	STEEL MAST ARM ASSEMBLY AND POLE, 28 FT.	EACH	2		2			
* 87700190	STEEL MAST ARM ASSEMBLY AND POLE, 30 FT.	EACH	1		1			
* 87700200	STEEL MAST ARM ASSEMBLY AND POLE, 32 FT.	EACH	1		1			
* 87800100	CONCRETE FOUNDATION, TYPE A	FOOT	16		16			
* 87800150	CONCRETE FOUNDATION, TYPE C	FOOT	4		4			
* 87800400	CONCRETE FOUNDATION, TYPE E 30-INCH DIAMETER	FOOT	10		10			
* 87800415	CONCRETE FOUNDATION, TYPE E 36-INCH DIAMETER	FOOT	66		66			
* 88030020	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST-ARM MOUNTED	EACH	6		6			
* 88030050	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED	EACH	2		2			
* 88030100	SIGNAL HEAD, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED	EACH	2		2			

URBAN

SUMMARY OF QUANTITIES			CONSTRUCTION TYPE CODE					
CODE NO	ITEM	UNIT	TOTAL QUANTITIES	0004 80% FED 20% STATE ROADWAY	0021 80% FED 10% STATE 5% VILL 5% TWP T. SIGNAL	0021 100% LAKE ZURICH F.P.D. E.V.P.		
* 88030110	SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST-ARM MOUNTED	EACH	2		2			
* 88200410	TRAFFIC SIGNAL BACKPLATE, LOUVERED, FORMED PLASTIC	EACH	8		8			
* 88500100	INDUCTIVE LOOP DETECTOR	EACH	6		6			
* 88600100	DETECTOR LOOP, TYPE I	FOOT	500		500			
* 88700200	LIGHT DETECTOR	EACH	2			2		
* 88700300	LIGHT DETECTOR AMPLIFIER	EACH	1			1		
* A2005556	TREE, NYSSA SYLVATICA (BLACK TUPELO), 6' HEIGHT, CLUMP FORM, BALLED AND BURLAPPED	EACH	2	2				
* A2006568	TREE, QUERCUS BICOLOR (SWAMP WHITE OAK), 7' HEIGHT, CLUMP FORM, BALLED AND BURLAPPED	EACH	8	8				
* A2007616	TREE, TAXODIUM DISTICHUM (COMMON BALD CYPRESS), 2" CALIPER, BALLED AND BURLAPPED	EACH	5	5				
* B2000564	TREE, AMELANCHIER CANADENSIS (SHADBLOW SERVICEBERRY), 5' HEIGHT, SHRUB FORM, BALLED AND BURLAPPED	EACH	6	6				

* = SPECIALTY ITEMS

URBAN

URBAN

SUMMARY OF QUANTITIES				CONSTRUCTION TYPE CODE				
CODE NO	ITEM	UNIT	TOTAL QUANTITIES	0004 80% FED 20% STATE ROADWAY	0021 80% FED 10% STATE 5% VILL 5% TWP T. SIGNAL	0021 100% LAKE ZURICH F.P.D. E.V.P.		
* C2009640	SHRUB, SAMBUCUS CANADENSIS (COMMON ELDERBERRY), 3' HEIGHT BALLED AND BURLAPPED	EACH	130	130				
* C2C00424	SHRUB, ARONIA ARBUTIFOLIA BRILLIANT ISSIMA (BRILLANT RED CHOKEBERRY), 2' HEIGHT, CONTAINER	EACH	220	220				
* C2C01424	SHRUB, CORNUS AMOMUM (SILKY DOGWOOD), 2' HEIGHT, CONTAINER	EACH	650	650				
* C2C01536	SHRUB, CORNUS RACEMOSA (GREY DOGWOOD), 3' HEIGHT, CONTAINER	EACH	625	625				
* C2C01965	SHRUB, ARONIA MELANOCARPA (IROQUOIS BEAUTY (IROQUOIS BEAUTY BLACK CHOKEBERRY), CONTAINER GROWN, 5-GALLON	EACH	175	175				
* C2C06024	SHRUB, RHUS TYPHINA (STAGHORN SUMAC), 2' HEIGHT, CONTAINER	EACH	160	160				
* K0013030	PERENNIAL PLANTS, WETLAND TYPE, 2" DIAMETER BY 4" DEEP PLUG	UNIT	20	20				
* K0029632	WEED CONTROL, NON-SELECTIVE AND NON-RESIDUAL	GALLON	2.5	2.5				
* K0029634	WEED CONTROL, PRE-EMERGENT GRANULAR HERBICIDE	POUND	36	36				

SUMMARY OF QUANTITIES				CONSTRUCTION TYPE CODE				
CODE NO	ITEM	UNIT	TOTAL QUANTITIES	0004 80% FED 20% STATE ROADWAY	0021 80% FED 10% STATE 5% VILL 5% TWP T. SIGNAL	0021 100% LAKE ZURICH F.P.D. E.V.P.		
* X0324085	EMERGENCY VEHICLE PRIORITY SYSTEM LINE SENSOR CABLE, NO. 20 3/C	FOOT	260			260		
* X2502014	SEEDING, CLASS 4A (MODIFIED)	ACRE	1.45	1.45				
* X2502024	SEEDING, CLASS 4B (MODIFIED)	ACRE	1.45	1.45				
X4021000	TEMPORARY ACCESS (PRIVATE ENTRANCE)	EACH	3	3				
X7010216	TRAFFIC CONTROL AND PROTECTION, (SPECIAL)	L SUM	1	1				
X7030030	WET REFLECTIVE TEMPORARY TAPE TYPE III, 4 INCH	FOOT	14466	14466				
X7030055	WET REFLECTIVE TEMPORARY TAPE TYPE III, 24 INCH	FOOT	44	44				
X7040125	PINNING TEMPORARY CONCRETE BARRIER	EACH	42	42				
* X8620200	UNINTERRUPTABLE POWER SUPPLY, SPECIAL	EACH	1		1			
Z0013798	CONSTRUCTION LAYOUT	L SUM	1	1				
Z0030850	TEMPORARY INFORMATION SIGNING	SQ FT	52	52				
Z0062456	TEMPORARY PAVEMENT	SQ YD	594	594				
Z0068100	STEEL CASINGS 28"	FOOT	150	150				

* = SPECIALTY ITEMS

22

FILE NAME:	USER NAME: yelchm	DESIGNED: -	REVISED: -
C:\work\p1\01\111111\111111\111111\111111.dgn		DRAWN: -	REVISED: -
PLOT SCALE: 100,000' / 1"		CHECKED: -	REVISED: -
PLOT DATE: 2/10/2005		DATE: -	REVISED: -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL ROUTE 22 AT OLD BARRINGTON ROAD			
SUMMARY OF QUANTITIES			
SCALE:	SHEET NO. OF SHEETS	STA.	TO STA.

F.A.P. RTE. 337	SECTION 19-N-2	COUNTY LAKE	TOTAL SHEETS 81	SHEET NO. 9
CONTRACT NO. 60P06			FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT	

URBAN

URBAN

SUMMARY OF QUANTITIES			CONSTRUCTION TYPE CODE					
CODE NO	ITEM	UNIT	TOTAL QUANTITIES	0004 80% FED 20% STATE ROADWAY	0021 80% FED 10% STATE 5% VILL 5% TWP T. SIGNAL	0021 100% LAKE ZURICH F.P.D. E.V.P.		
X1200032	STEEL CASING PIPE AUGERED AND JACKED 28"	FOOT	150	150				
*X1400081	FULL-ACTUATED CONTROLLER AND TYPE SUPER P CABINET (SPECIAL)	EACH	1		1			
Ø 20076600	TRAINEES	HOUR	500	500				
Ø 20076604	TRAINEES - TRAINING PROGRAM GRADUATE	HOUR	500	500				

SUMMARY OF QUANTITIES			CONSTRUCTION TYPE CODE					
CODE NO	ITEM	UNIT	TOTAL QUANTITIES	0004 80% FED 20% STATE ROADWAY	0021 80% FED 10% STATE 5% VILL 5% TWP T. SIGNAL	0021 100% LAKE ZURICH F.P.D. E.V.P.		

* = SPECIALTY ITEMS

2
4

FILE NAME : Ø0042	USER NAME : Vellamary	DESIGNED -	REVISED -
PLT SCALE : 100,0000 1" = 100'	CHECKED -	DRAWN -	REVISED -
PLT DATE : 2/10/2005	DATE -	CHECKED -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL ROUTE 22 AT OLD BARRINGTON ROAD
SUMMARY OF QUANTITIES

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

F.A.P. R.T.E. 337	SECTION 19-N-2	COUNTY LAKE	TOTAL SHEETS 81	SHEET NO. 10
CONTRACT NO. 60P06				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

LEGEND - EXISTING

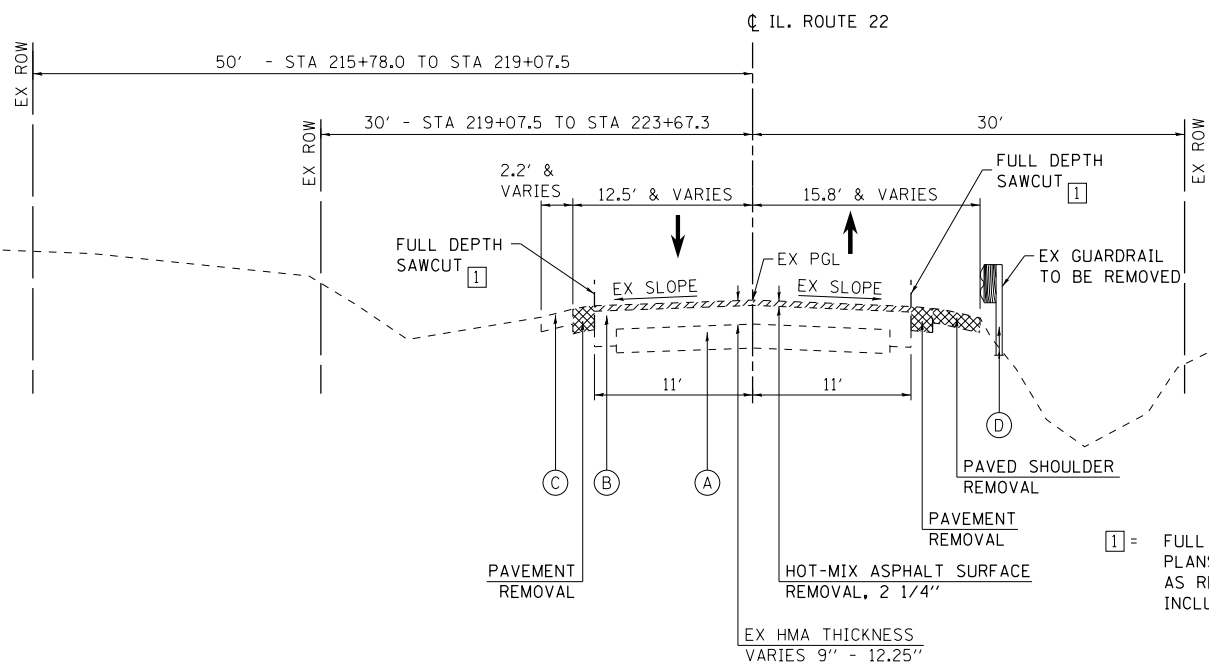
- (A) PCC PAVEMENT
- (B) HOT-MIX ASPHALT WIDENING AND OVERLAY
- (C) AGGREGATE SHOULDER
- (D) GUARDRAIL
- (E) HOT-MIX ASPHALT

LEGEND - PROPOSED

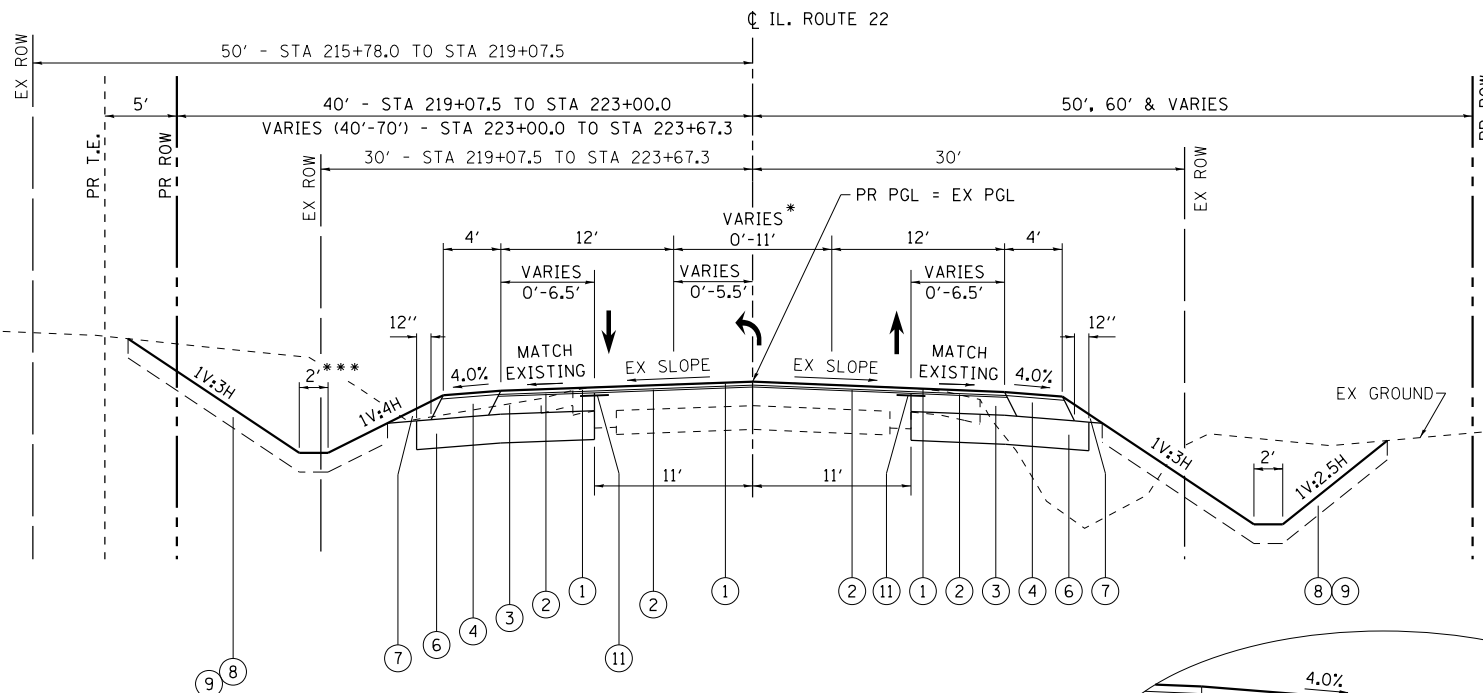
- (1) HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N70, 1 1/2"
- (2) LEVELING BINDER (MACHINE METHOD), N70, 3/4"
- (3) HOT-MIX ASPHALT BASE COURSE WIDENING, 7 1/2"
- (4) HOT-MIX ASPHALT SHOULDER
- (5) NOT USED
- (6) AGGREGATE SUBGRADE IMPROVEMENT, 12" (SY)
- (7) AGGREGATE SHOULDER, TYPE B - WEDGE
- (8) TOPSOIL, 8"
- (9) SEEDING
- (10) AGGREGATE SUBGRADE IMPROVEMENT, 24" (CY) - STA 225+00 TO STA 227+00
- (11) STRIP REFLECTIVE CRACK CONTROL TREATMENT

THE CONTRACTOR SHALL MILL FIRST BEFORE PATCHING

NOTE:
PATCHING QUANTITY SHOWN ON SOQ SHEET IS COMBINED QUANTITY FOR MAINLINE AREA PATCHING AND PATCHING FOR CULVERT REMOVAL AND REPLACEMENT



EXISTING TYPICAL SECTION
STA. 215+78.00 TO 224+00.00



PROPOSED TYPICAL SECTION

STA. 215+78.00 TO 224+00

* = MEDIAN DEVELOPS BETWEEN STA. 217+92.65 AND STA. 220+67.65

*** = 4 FT WIDE DITCH BOTTOM AT STA 223+00 LT
6 FT WIDE DITCH BOTTOM AT STA 223+25 LT AND STA 223+50 LT
NON-TYPICAL DITCH AT STA 223+50 LT & RT,
SEE CROSS SECTIONS FOR DETAILS

HOT-MIX ASPHALT MIXTURE REQUIREMENTS			OMP
MIXTURE TYPE	AIR Voids @ Ndes		
PAVEMENT RESURFACING			
HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N70 (IL 9.5 mm)	4% AT 70 GYR.	QC/OA	
LEVELING BINDER (MACHINE METHOD), N70 (IL-9.5 mm)	4% AT 70 GYR.	QC/OA	
TEMPORARY PAVEMENT			
HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N50, 10" (FULL DEPTH)	4% AT 50 GYR.	QC/OA	
PAVEMENT WIDENING			
HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N70 (IL 9.5 mm)	4% AT 70 GYR.	QC/OA	
LEVELING BINDER (MACHINE METHOD), N70 (IL-9.5 mm)	4% AT 70 GYR.	QC/OA	
HMA BASE COURSE WIDENING (HMA BINDER IL-19 mm); 7 1/2"	4% AT 70 GYR.	QC/OA	
HMA SHOULDER			
HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N70 (IL 9.5 mm), 1 1/2"	4% AT 70 GYR.	QC/OA	
HMA SHOULDER (HMA BINDER IL-19 mm), 8 1/4"	4% AT 70 GYR.	QC/OA	
DRIVEWAYS			
HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N70 (IL 9.5 mm), 2"	4% AT 70 GYR.	QC/OA	
HMA BASE COURSE (HMA BINDER IL-19 mm); PE - 6"	4% AT 50 GYR.	QC/OA	
PATCHING			
CLASS D PATCHES (HMA BINDER IL-19 mm)	4% AT 70 GYR.	QC/OA	
OMP DESIGNATION: QUALITY CONTROL/QUALITY ASSURANCE (QC/OA); QUALITY CONTROL FOR PERFORMANCE (QCP)			

- NOTE 1: THE UNIT WEIGHT USED TO CALCULATE ALL HMA SURFACE MIXTURE QUANTITIES IS 112 LBS/SQ YD/IN
- NOTE 2: THE "AC TYPE" FOR POLYMERIZED HMA MIXES SHALL BE "SBS/SBR PG 76-22" AND FOR NON-POLYMERIZED HMA THE "AC TYPE" SHALL BE "PG 64-22" UNLESS MODIFIED BY DISTRICT ONE SPECIAL PROVISIONS. FOR USE OF RECYCLED MATERIALS SEE SPECIAL PROVISIONS.
- NOTE 3: "PCC TEMPORARY PAVEMENT SHALL CONSIST OF CLASS PV CONCRETE MEETING THE REQUIREMENTS OF ART. 1020 OF THE STANDARD SPECIFICATIONS"; 8" THICK. TEMPORARY PCC PAVEMENT DOES NOT REQUIRE DOWEL BARS.
- NOTE 4: TEMPORARY HMA PAVEMENT AND/OR TEMPORARY PCC PAVEMENT SHOULD BE BUILT OVER 4" SUBBASE GRANULAR MATERIAL TYPE B (CA-6) (PAY ITEM 31101200, SUBBASE GRANULAR MATERIAL, TYPE B 4" (SQ YD))
- NOTE 5: QUALITY MANAGEMENT PROGRAM (OMP) IDENTIFIES THE PARTICULAR QUALITY CONTROL SPECIFICATION THAT APPLIES TO THE HMA MIXTURE

FILE NAME =	USER NAME = Velichkovv	DESIGNED -	REVISED -
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Default	PLOT SCALE = 100.0000' / in.	CHECKED -	REVISED -
	PLOT DATE = 2/10/2015	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL 22 AT OLD BARRINGTON ROAD
TYPICAL SECTIONS

SCALE: SHEET OF SHEETS STA. TO STA.

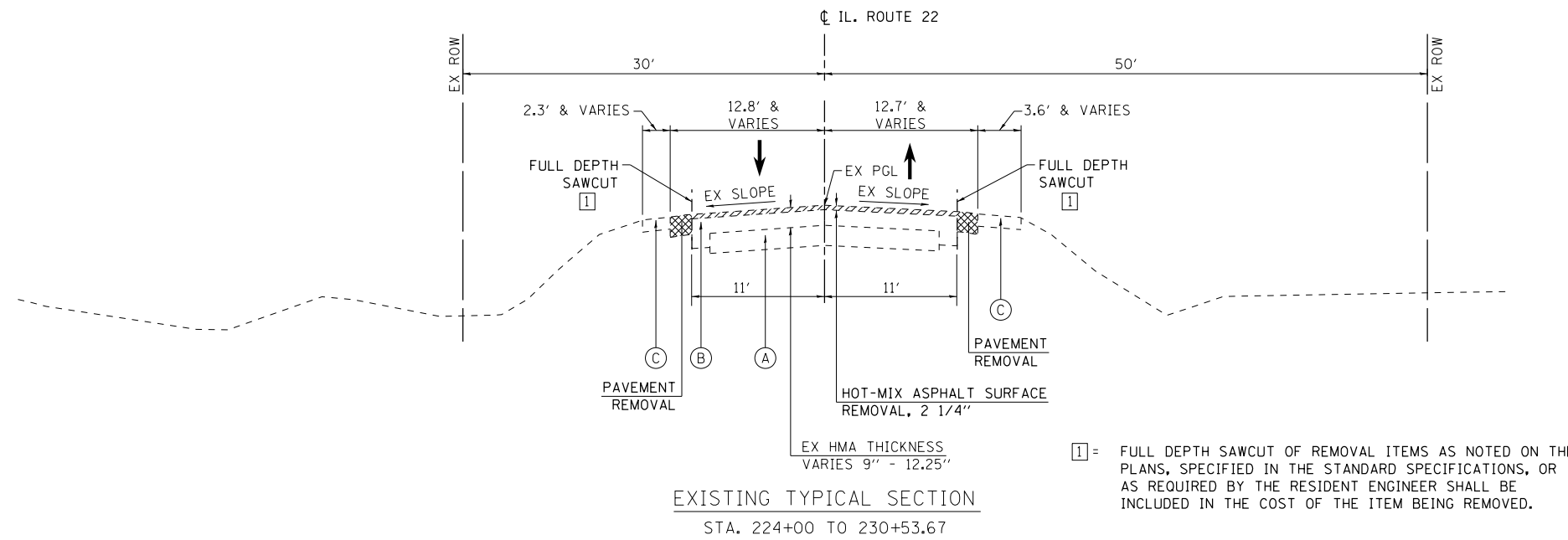
F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
337	19-N-2	LAKE	81	11
				CONTRACT NO. 60P06
ILLINOIS FED. AID PROJECT				

LEGEND - EXISTING

- (A) PCC PAVEMENT
- (B) HOT-MIX ASPHALT WIDENING AND OVERLAY
- (C) AGGREGATE SHOULDER
- (D) GUARDRAIL
- (E) HOT-MIX ASPHALT

LEGEND - PROPOSED

- (1) HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N70, 1 1/2"
- (2) LEVELING BINDER (MACHINE METHOD), N70, 3/4"
- (3) HOT-MIX ASPHALT BASE COURSE WIDENING, 7 1/2"
- (4) HOT-MIX ASPHALT SHOULDER
- (5) NOT USED
- (6) AGGREGATE SUBGRADE IMPROVEMENT, 12" (SY)
- (7) AGGREGATE SHOULDER, TYPE B - WEDGE
- (8) TOPSOIL, 8"
- (9) SEEDING
- (10) AGGREGATE SUBGRADE IMPROVEMENT, 24" (CY) - STA 225+00 TO STA 227+00
- (11) STRIP REFLECTIVE CRACK CONTROL TREATMENT



1 = FULL DEPTH SAWCUT OF REMOVAL ITEMS AS NOTED ON THE PLANS, SPECIFIED IN THE STANDARD SPECIFICATIONS, OR AS REQUIRED BY THE RESIDENT ENGINEER SHALL BE INCLUDED IN THE COST OF THE ITEM BEING REMOVED.

GEOTECHNICAL NOTES

SUBGRADE

UNDERCUT AND REPLACEMENT WITH AGGREGATE SUBGRADE IMPROVMENT AND FABRIC AT THE FOLLOWING LOCATION:
 STA 225+00 TO STA 227+00 24 INCH UNDERCUT BOTH SIDES OF ROADWAY

IF UNSUITABLE/UNSTABLE SOILS ARE ENCOUNTERED DURING CONSTRUCTION, THEY SHOULD BE REPLACED WITH MATERIAL THAT MEETS THE AGGREGATE SUBGRADE IMPROVEMENT SPECIAL PROVISION (CURRENT VERSION). THE ACTUAL NEED FOR REMOVAL AND REPLACEMENT WITH AGGREGATE SUBGRADE IMPROVEMENT SHOULD BE DETERMINED IN THE FIELD AT THE TIME OF CONSTRUCTION BY THE GEOTECHNICAL ENGINEER OR SOILS INSPECTOR. ALL POTENTIALLY UNSTABLE SOILS SHOULD BE TESTED WITH A CONE PENETROMETER AND TREATED IN ACCORDANCE WITH ARTICLE 301.04 OF THE STANDARD SPECIFICATIONS AND THE UNDERCUT GUIDELINES IN THE IDOT SUBGRADE STABILITY MANUAL. ANY MATERIAL NOT NEEDED AT THE TIME OF CONSTRUCTION FOR UNDERCUT REPLACEMENT SHOULD BE DELETED FROM THE CONTRACT WITH NO EXTRA COMPENSATION TO THE CONTRACTOR.

UNDERDRAINS

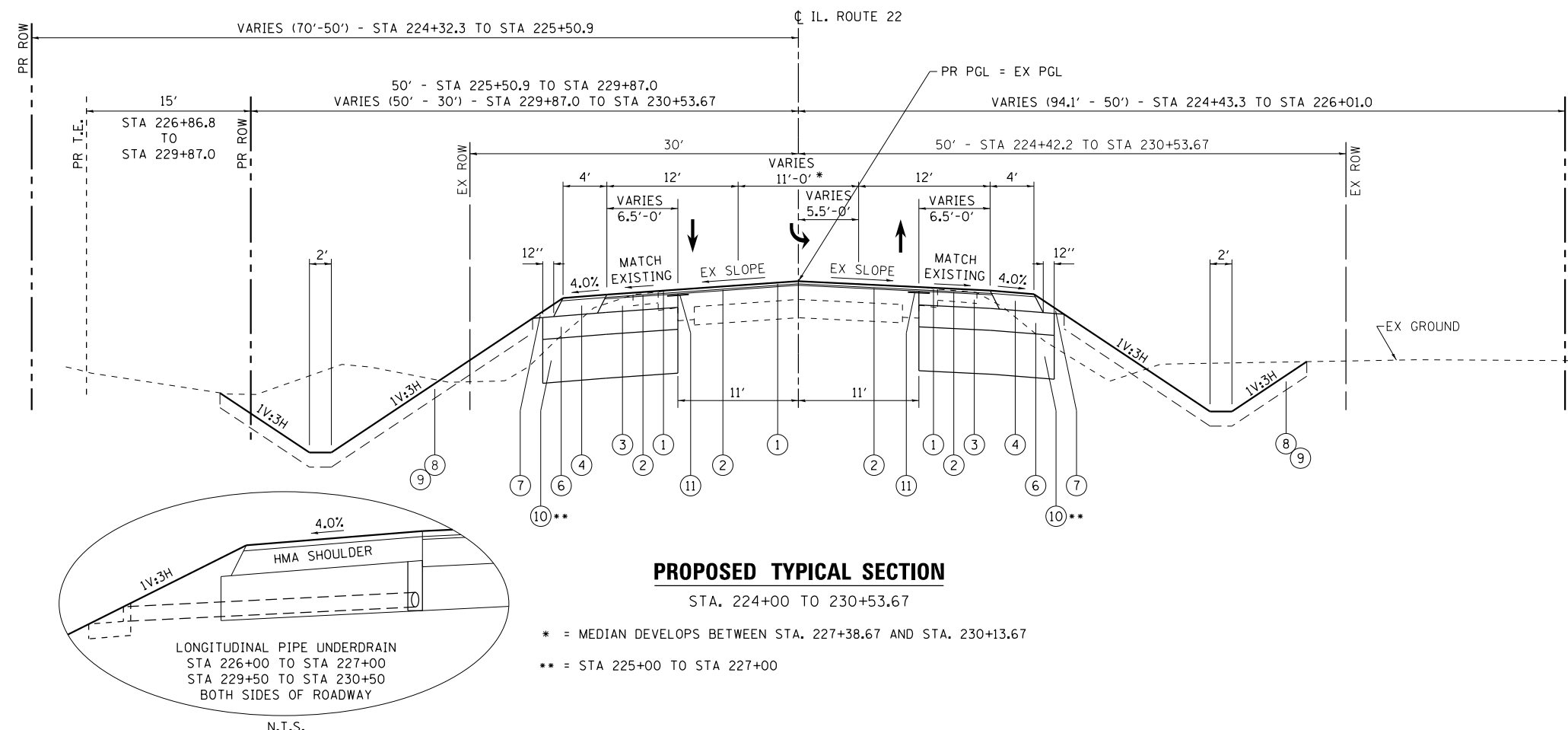
LONGITUDINAL PIPE UNDERDRAINS TO BE INSTALLED AT THE OUTSIDE OF NEW PAVEMENT AT THE FOLLOWING LOCATIONS:
 STA 216+00 TO STA 218+00 BOTH SIDES OF ROADWAY
 STA 226+00 TO STA 227+00 BOTH SIDES OF ROADWAY
 STA 229+50 TO STA 230+50 BOTH SIDES OF ROADWAY

ALL PIPE UNDERDRAINS SHALL BE PLACED AT A DEPTH OF 30" BELOW THE TOP OF PROPOSED PAVEMENT OR AS DEEP AS POSSIBLE AND IN ACCORDANCE WITH CHECK SHEET #19 OF THE SUPPLEMENTAL SPECIFICATIONS AND RECURRING SPECIAL PROVISIONS. THE COST OF MAKING PIPE UNDERDRAIN CONNECTIONS TO DRAINAGE STRUCTURES SHALL BE INCLUDED IN THE COST OF PIPE UNDERDRAINS ITEM.

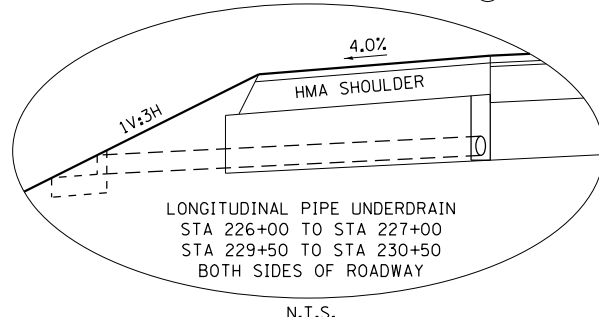
EARTHWORK

TOPSOIL STRIPPING DEPTH = 12 INCHES.

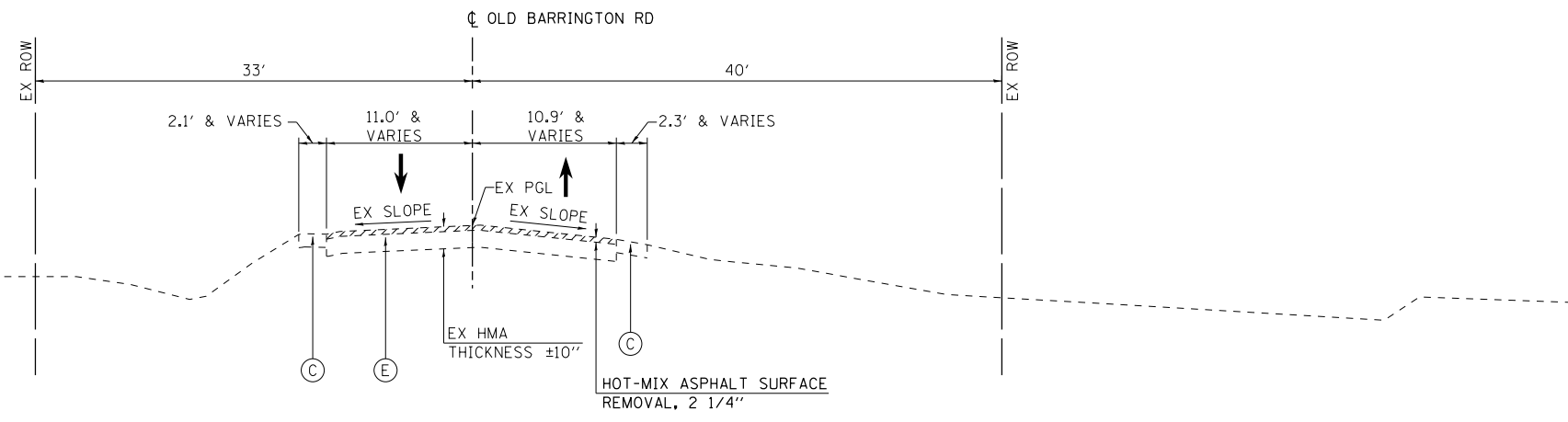
ALL TOPSOIL AND VEGETATION SHALL BE REMOVED FROM AREAS OF PROPOSED EMBANKMENT WIDENING. BENCHING OF EXISTING SLOPES SHALL BE ACCORDING TO "BENCHING DETAIL FOR EMBANKMENT WIDENING".



* = MEDIAN DEVELOPS BETWEEN STA. 227+38.67 AND STA. 230+13.67
 ** = STA 225+00 TO STA 227+00



FILE NAME =	USER NAME = Velichkovv	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	IL 22 AT OLD BARRINGTON ROAD TYPICAL SECTIONS	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
Default	44509-sh-typical.dgn	DRAWN -	REVISED -			337	19-N-2	LAKE	81	12	
	PLOT SCALE = 100.0000' / 1"	CHECKED -	REVISED -			CONTRACT NO. 60P06					
	PLOT DATE = 2/10/2015	DATE -	REVISED -			ILLINOIS FED. AID PROJECT					



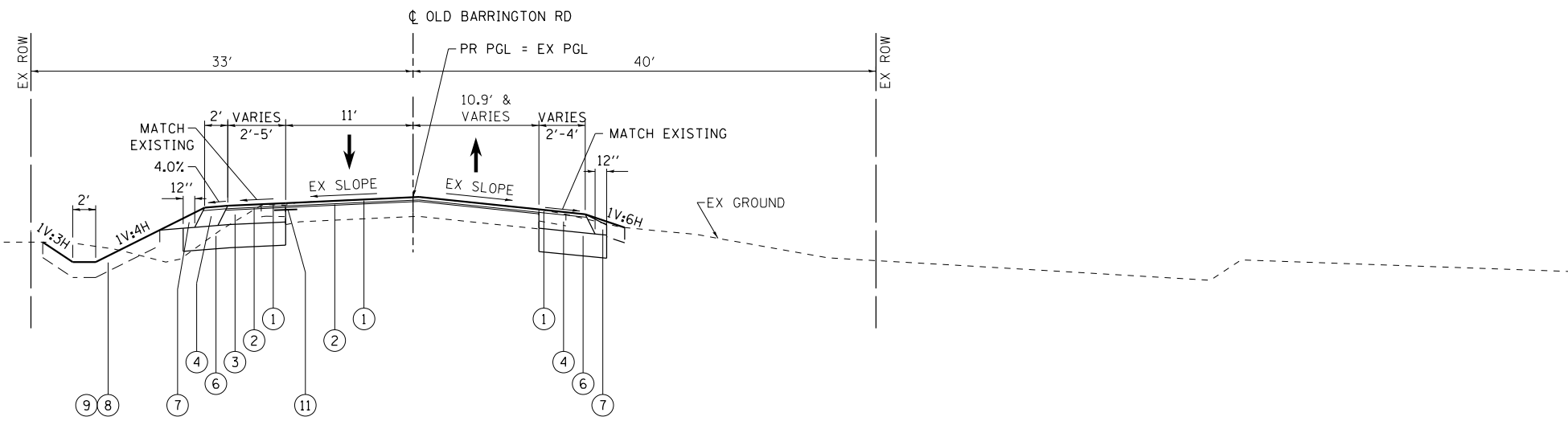
EXISTING TYPICAL SECTION
STA 50+94.0 TO STA 52+00

LEGEND - EXISTING

- (A) PCC PAVEMENT
- (B) HOT-MIX ASPHALT WIDENING AND OVERLAY
- (C) AGGREGATE SHOULDER
- (D) GUARDRAIL
- (E) HOT-MIX ASPHALT

LEGEND - PROPOSED

- (1) HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N70, 1 1/2"
- (2) LEVELING BINDER (MACHINE METHOD), N70, 3/4"
- (3) HOT-MIX ASPHALT BASE COURSE WIDENING, 7 1/2"
- (4) HOT-MIX ASPHALT SHOULDER
- (5) NOT USED
- (6) AGGREGATE SUBGRADE IMPROVEMENT, 12" (SY)
- (7) AGGREGATE SHOULDER, TYPE B - WEDGE
- (8) TOPSOIL, 8"
- (9) SEEDING
- (10) AGGREGATE SUBGRADE IMPROVEMENT, 24" (CY) - STA 225+00 TO STA 227+00
- (11) STRIP REFLECTIVE CRACK CONTROL TREATMENT



PROPOSED TYPICAL SECTION
STA 50+94.0 TO STA 52+00

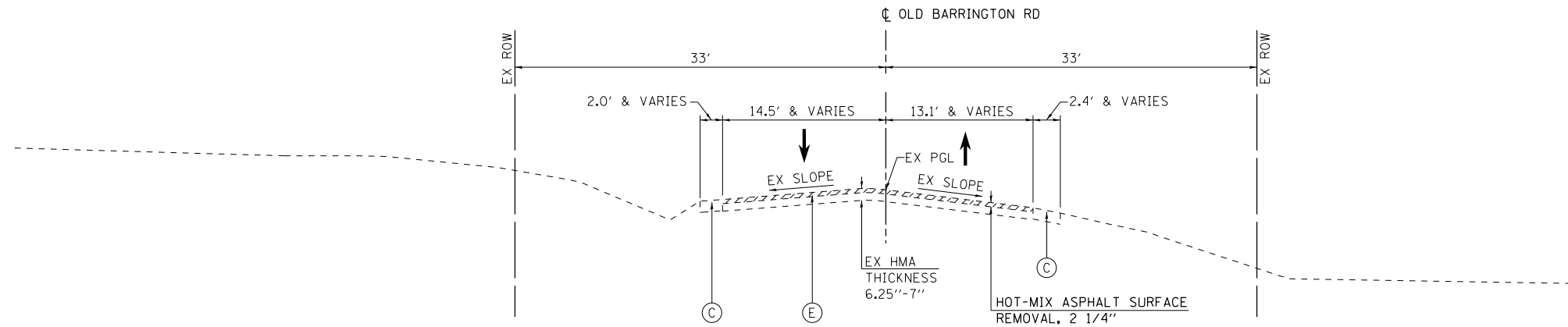
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	44509-sh-t-typical.dgn	DRAWN -	REVISED -				337	19-N-2	LAKE	81	13
Default	PLOT SCALE = 100.0000' / in.	CHECKED -	REVISED -	SCALE: SHEET OF SHEETS STA. TO STA.		CONTRACT NO. 60P06					
	PLOT DATE = 2/10/2015	DATE -	REVISED -	ILLINOIS FED. AID PROJECT							

LEGEND - EXISTING

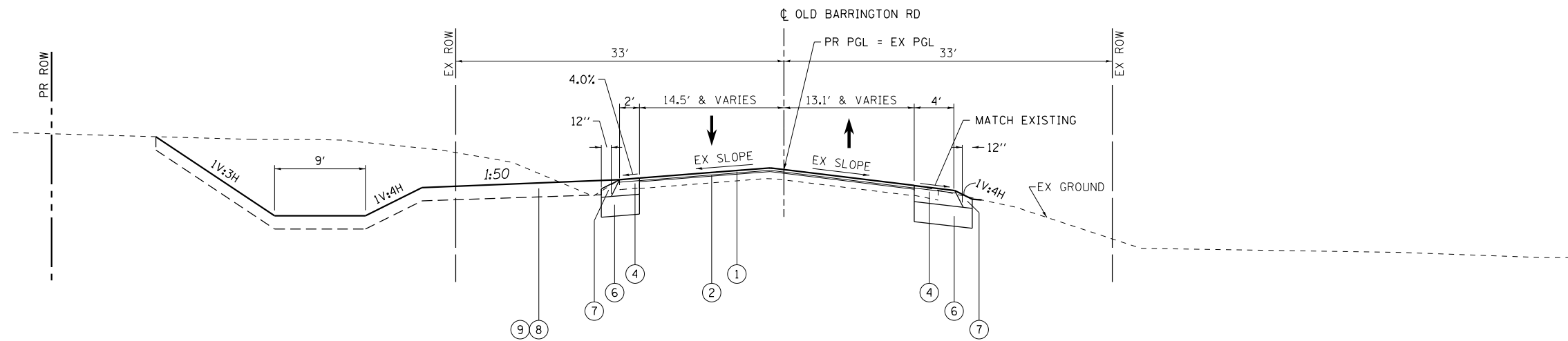
- (A) PCC PAVEMENT
- (B) HOT-MIX ASPHALT WIDENING AND OVERLAY
- (C) AGGREGATE SHOULDER
- (D) GUARDRAIL
- (E) HOT-MIX ASPHALT

LEGEND - PROPOSED

- (1) HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N70, 1 1/2"
- (2) LEVELING BINDER (MACHINE METHOD), N70, 3/4"
- (3) HOT-MIX ASPHALT BASE COURSE WIDENING, 7 1/2"
- (4) HOT-MIX ASPHALT SHOULDER
- (5) NOT USED
- (6) AGGREGATE SUBGRADE IMPROVEMENT, 12" (SY)
- (7) AGGREGATE SHOULDER, TYPE B - WEDGE
- (8) TOPSOIL, 8"
- (9) SEEDING
- (10) AGGREGATE SUBGRADE IMPROVEMENT, 24" (CY) - STA 225+00 TO STA 227+00
- (11) STRIP REFLECTIVE CRACK CONTROL TREATMENT



EXISTING TYPICAL SECTION
 STA 52+00 TO STA 52+69.6



PROPOSED SECTION
 STA 52+00 TO STA 52+69.6

FILE NAME =	USER NAME = Velichkovv	DESIGNED -	REVISED -
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Default	PLOT SCALE = 100.0000' / in.	CHECKED -	REVISED -
	PLOT DATE = 2/10/2015	DATE -	REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

IL 22 AT OLD BARRINGTON ROAD
 TYPICAL SECTIONS

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
337	19-N-2	LAKE	81	14
CONTRACT NO. 60P06			ILLINOIS FED. AID PROJECT	

EXISTING TREES

LOCATION		OFFSET	20100110	20100500
STA	STA		TREE REMOVAL 6-15 UNITS	TREE REMOVAL ACRES
215+78.0	223+70.9	LT		0.38
215+20.9	215+96.8	RT		0.03
216+13.0	223+72.4	RT		0.46
50+93.4	51+64.2	RT		0.02
224+78.8	225+99.6	RT		0.08
227+19.5	227+74.4	LT		0.02
227+57.9	228+96.7	RT		0.07
228+30.7	230+56.0	LT		0.15
229+85.9	230+53.7	RT		0.04
	224+62.2	67.3 LT	6	
	224+73.0	61.8 LT	6	
	225+02.1	67.0 LT	8	
	TOTAL		20	1.24

EARTHWORK

FROM STATION (1)	TO STATION (1)	EARTH EXCAVATION (20200100) CUBIC YARD (2)	EARTH EXCAVATION TO BE USED IN EMBANKMENT (ADJUSTED FOR SHRINKAGE) CUBIC YARD (3)	EMBANKMENT CUBIC YARD (4)	EARTHWORK BALANCE WASTE (+) OR SHORTAGE (-) CUBIC YARD (5)	REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL (20201200) CUBIC YARD (6)	TOPSOIL EXCAVATION AND PLACEMENT (EXISTING TOPSOIL) (DEPTH = 12") (21101505) CUBIC YARD (7)	TOPSOIL NEEDED FOR LANDSCAPING (DEPTH = 8") CUBIC YARD (8)	TOPSOIL BALANCE WASTE (+) OR SHORTAGE (-) CUBIC YARD (9)	AGGREGATE SUBGRADE IMPROVEMENT (30300001) CUBIC YARD (10)
		(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
IL 22										
213+00	214+00	46	39	22	+17	40	105	65	+40	
214+00	215+00	64	55	8	+46	37	101	64	+37	
215+00	216+00	185	157	7	+150	83	143	60	+83	
216+00	217+00	271	230	37	+194	121	211	90	+121	
217+00	218+00	232	197	64	+134	108	224	116	+108	
218+00	219+00	258	219	85	+134	118	232	113	+118	
219+00	220+00	317	270	115	+155	140	253	113	+140	
220+00	221+00	425	361	127	+234	160	279	119	+160	
221+00	222+00	389	330	134	+197	162	280	118	+162	
222+00	223+00	289	246	137	+108	155	264	109	+155	
223+00	223+50	183	156	38	+118	77	144	68	+77	
223+50	224+00	108	92	4	+88	38	79	41	+38	
224+00	224+50	11	10	67	-57	29	45	16	+29	
224+50	225+00	26	22	98	-76	64	103	39	+64	
225+00	226+00	41	35	182	-147	318	217	86	+132	186
226+00	227+00	14	12	186	-174	302	191	71	+120	182
227+00	228+00	145	123	75	48	119	202	83	+119	
228+00	229+00	522	444	13	+431	127	250	122	+127	
229+00	230+00	550	468	7	+461	110	239	130	+110	
SUB-TOTAL		4078	3466	1407	+2059	2307	3561	1621	+1939	368

COLUMN 1: LOCATION FROM PLAN

COLUMN 2: QUANTITIES OF EARTH EXCAVATION (CUT) FROM CROSS SECTIONS, WHICH DOES NOT INCLUDE UNSUITABLE MATERIAL AND/OR TOPSOIL

COLUMN 3: QUANTITIES OF EARTH EXCAVATION (CUT) ADJUSTED FOR A SHRINKAGE FACTOR OF 15%

COLUMN 4: QUANTITIES OF EMBANKMENT (FILL) FROM CROSS SECTIONS

COLUMN 5: EARTHWORK REQUIRED (COLUMN 3 - COLUMN 4)

(+) = QUANTITY TO BE WASTED

(-) = QUANTITY OF EMBANKMENT (FILL) NEEDED

COLUMN 6: CUT MATERIAL THAT IS DETERMINED TO BE EITHER UNSTABLE OR UNSUITABLE FOR USE IN EMBANKMENT

AND/OR

EXCESS EXISTING TOPSOIL (COLUMN 9) TO BE DISPOSED OF AS UNSUITABLE MATERIAL

COLUMN 7: QUANTITIES OF EXISTING TOPSOIL FROM CROSS SECTIONS, STRIPPING DEPTH = 12", TO BE PAID FOR AS "TOPSOIL EXCAVATION AND PLACEMENT". THESE QUANTITIES ARE NOT INCLUDED IN EARTH EXCAVATION OR EMBANKMENT

COLUMN 8: QUANTITIES OF TOPSOIL NEEDED FOR LANDSCAPING FROM CROSS SECTIONS

COLUMN 9: TOPSOIL REQUIRED (COLUMN 7 - COLUMN 8)

(+) = QUANTITY OF TOPSOIL TO BE WASTED, TO BE PAID FOR AS "REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL"

(-) = QUANTITY OF FURNISHED TOPSOIL NEEDED

COLUMN 10: QUANTITIES OF UNSUITABLE/UNSTABLE SOILS FROM CROSS SECTIONS, REPLACED WITH AGGREGATE SUBGRADE IMPROVEMENT

SEE NEXT SHEET FOR CONTINUATION

FILE NAME =	USER NAME = Velichkovv	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	IL 22 AT OLD BARRINGTON ROAD SCHEDULE OF QUANTITIES	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
et:\pw\work\p\dot\velichkovv\d0184109\p	44509-sht-schedule.dgn	DRAWN -	REVISED -			337	19-N-2	LAKE	81	15	
Default	PLOT SCALE = 100.0000' / in.	CHECKED -	REVISED -			CONTRACT NO. 60P06					
	PLOT DATE = 2/10/2015	DATE -	REVISED -			SCALE:	SHEET	OF	SHEETS	STA.	TO

ILLINOIS FED. AID PROJECT

EARTHWORK

FROM STATION (1)	TO STATION (1)	EARTH EXCAVATION (20200100) CUBIC YARD (2)	EARTH EXCAVATION TO BE USED IN EMBANKMENT (ADJUSTED FOR SHRINKAGE) CUBIC YARD (3)	EMBANKMENT CUBIC YARD (4)	EARTHWORK BALANCE WASTE (+) OR SHORTAGE (-) CUBIC YARD (5)	REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL (20201200) CUBIC YARD (6)	TOPSOIL EXCAVATION AND PLACEMENT (EXISTING TOPSOIL) (DEPTH = 12") (21101505) CUBIC YARD (7)	TOPSOIL NEEDED FOR LANDSCAPING (DEPTH = 8") CUBIC YARD (8)	TOPSOIL BALANCE WASTE (+) OR SHORTAGE (-) CUBIC YARD (9)	AGGREGATE SUBGRADE IMPROVEMENT (30300001) CUBIC YARD (10)
		CULVERT AT STA 216+09 RT (FROM CULVERT PLANS)						9.3		
CULVERT AT STA 225+00 (FROM CULVERT PLANS)						30				20
SUB-TOTAL						39				29
OLD BARRINGTON ROAD										
51+00	51+50	79	67	17	+51	38	72	34	+38	
51+50	52+00	71	61	7	+53	23	49	26	+23	
52+00	52+50	55	47	4	+43	22	51	29	+22	
SUB-TOTAL		205	175	28	+147	83	172	89	+83	
TOTAL		4,283				2,429	3,732			397

COLUMN 1: LOCATION FROM PLAN

COLUMN 2: QUANTITIES OF EARTH EXCAVATION (CUT) FROM CROSS SECTIONS, WHICH DOES NOT INCLUDE UNSUITABLE MATERIAL AND/OR TOPSOIL

COLUMN 3: QUANTITIES OF EARTH EXCAVATION (CUT) ADJUSTED FOR A SHRINKAGE FACTOR OF 15%

COLUMN 4: QUANTITIES OF EMBANKMENT (FILL) FROM CROSS SECTIONS

COLUMN 5: EARTHWORK REQUIRED (COLUMN 3 - COLUMN 4)

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COLUMN 10: QUANTITIES OF UNSUITABLE/UNSTABLE SOILS FROM CROSS SECTIONS, REPLACED WITH AGGREGATE SUBGRADE IMPROVEMENT

FILE NAME =	USER NAME = Velichkovv	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	IL 22 AT OLD BARRINGTON ROAD SCHEDULE OF QUANTITIES	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
et:\pw\work\p\dot\velichkovv\d0184109\p	44509-sht-schedule.dgn	DRAWN -	REVISED -			337	19-N-2	LAKE	81	16	
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	PLOT DATE = 2/10/2015	DATE -	REVISED -			SCALE:	SHEET OF SHEETS	STA.	TO STA.	ILLINOIS FED. AID PROJECT	

EXISTING SIGNS

PANEL DESCRIPTION	SALVAGE	LOCATION		72400100	72400200
		STATION	OFFSET	REMOVE SIGN PANEL ASSEMBLY - TYPE A	REMOVE SIGN PANEL ASSEMBLY - TYPE B
				EACH	EACH
IL 22					
NO PASSING ZONE		215+73	19.0 RT		1
INTERSECTION WARNING		218+09	17.9 RT	1	
OLD BARRINGTON RD				1	
SPEED LIMIT 50		222+97	22.6 LT	1	
NORTH BARRINGTON VILLAGE HALL LEFT ARROW	YES	224+29	56.4 LT	1	
NORTH BARRINGTON VILLAGE HALL RIGHT ARROW	YES			1	
STATE RTE 22		224+37	35.7 LT	1	
OLD BARRINGTON RD				1	
SPEED LIMIT 50		227+33	22.1 RT	1	
INTERSECTION WARNING		230+62	20.2 LT	1	
OLD BARRINGTON RD				1	
NO PASSING ZONE		233+42.8	22.6 LT		
OLD BARRINGTON ROAD					
AXEL WEIGHT LIMIT 6 TONS	YES	51+50	18.7 LT	1	
LOCAL TRUCK TRAFFIC ONLY	YES			1	
CUBA TWP. ROAD DIST. www.cubatownship.com	YES			1	
STOP		51+58	22.7 RT	1	
CROSS TRAFFIC DOES NOT STOP				1	
STOP		52+38	21.0 LT	1	
CROSS TRAFFIC DOES NOT STOP				1	
			TOTAL	17	1

PROPOSED SIGNS

PANEL DESCRIPTION	SIZE		LOCATION		72000100	72000200	72300100	72900100
	WIDTH	HEIGHT	STATION	OFFSET	SIGN PANEL TYPE 1	SIGN PANEL TYPE 2	INSTALL EXISTING SIGN PANEL	METAL POST TYPE A
	INCHES	INCHES			SO FT	SO FT	SO FT	FOOT
IL 22								
NEW	24	12	216+52.6	26.0 RT	2.0			12.0
SIGNAL AHEAD	36	36			9.0			
NO PASSING ZONE	64	48	217+52.1	26.2 LT		21.3		12.0
Old Barrington Rd	96	18	218+48.6	21.2 RT		12.0		12.0
SPEED LIMIT 50	30	36	221+56.8	31.6 LT	7.5			12.0
WEST	24	12	222+56.9	31.6 LT	2.0			12.0
ILLINOIS 22	24	24			4.0			
NORTH BARRINGTON VILLAGE HALL, ARROW	36	30	224+31.0	56.3 LT			7.5	12.0
NORTH BARRINGTON VILLAGE HALL, ARROW	36	30					7.5	
EAST	24	12	225+55.8	34.1 RT	2.0			12.0
ILLINOIS 22	24	24			4.0			
SPEED LIMIT 50	30	36	226+55.7	31.6 RT	7.5			12.0
Old Barrington Rd	96	18	229+57.8	27.1 LT		12.0		12.0
NO PASSING ZONE	64	48	230+52.6	25.9 RT		21.3		12.0
NEW	24	12	231+37.7	27.1 LT	2.0			12.0
SIGNAL AHEAD	36	36			9.0			
OLD BARRINGTON ROAD								
IL Rte 22	54	18	47+58.9	20.1 RT	6.75			10.0
AXEL WEIGHT LIMIT 6 TONS	30	36	51+46.7	30.1 LT			7.5	12.0
LOCAL TRUCK TRAFFIC ONLY	24	30					5.0	
CUBA TWP. ROAD DIST. www.cubatownship.com	12	24					2.0	
IL Rte 22	54	18	56+43.0	20.4 LT	6.75			10.0
				TOTAL	63	67	30	164
[IL Rte 221 - SEE TRAFFIC SIGNAL INSTALLATION PLAN	6.75 SQ. FT EACH, 2 REQUIRED		MAST ARM SIGN		13.5			
[Old Barrington Rd] - SEE TRAFFIC SIGNAL INSTALLATION PLAN	12.0 SQ. FT EACH, 2 REQUIRED		MAST ARM SIGN			24.0		

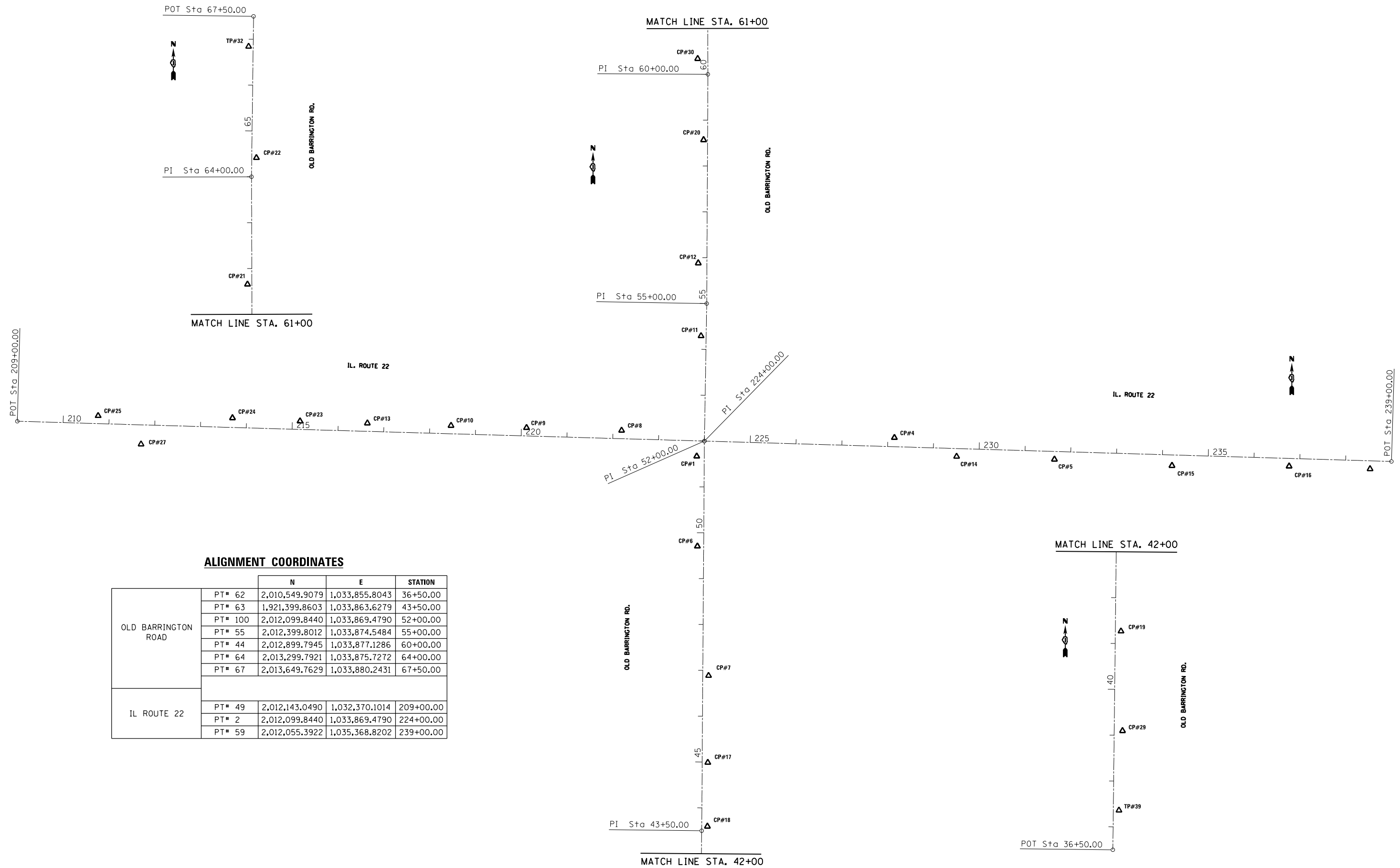
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	PLOT DATE = 2/10/2015	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**IL 22 AT OLD BARRINGTON ROAD
SCHEDULE OF QUANTITIES**

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
337	19-N-2	LAKE	81	17
CONTRACT NO. 60P06			ILLINOIS FED. AID PROJECT	



ALIGNMENT COORDINATES

		N	E	STATION
OLD BARRINGTON ROAD	PT# 62	2,010,549.9079	1,033,855.8043	36+50.00
	PT# 63	1,921,399.8603	1,033,863.6279	43+50.00
	PT# 100	2,012,099.8440	1,033,869.4790	52+00.00
	PT# 55	2,012,399.8012	1,033,874.5484	55+00.00
	PT# 44	2,012,899.7945	1,033,877.1286	60+00.00
	PT# 64	2,013,299.7921	1,033,875.7272	64+00.00
	PT# 67	2,013,649.7629	1,033,880.2431	67+50.00
IL ROUTE 22	PT# 49	2,012,143.0490	1,032,370.1014	209+00.00
	PT# 2	2,012,099.8440	1,033,869.4790	224+00.00
	PT# 59	2,012,055.3922	1,035,368.8202	239+00.00

FILE NAME =	USER NAME = velichkovv	DESIGNED -	REVISED -
c:\pwork\pwork\velichkovv\d0184132\p44509-sht-ATB.dgn		DRAWN -	REVISED -
Default	PLOT SCALE = 200.0000' / in.	CHECKED -	REVISED -
	PLOT DATE = 2/10/2015	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

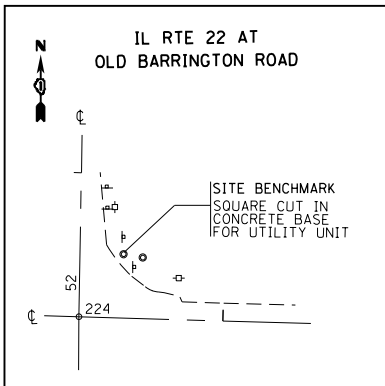
**ALIGNMENT, TIES AND BENCHMARKS
IL. ROUTE 22 AT OLD BARRINGTON ROAD**

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
337	19-N-2	LAKE	81	18
CONTRACT NO. 60P06				
ILLINOIS FED. AID PROJECT				

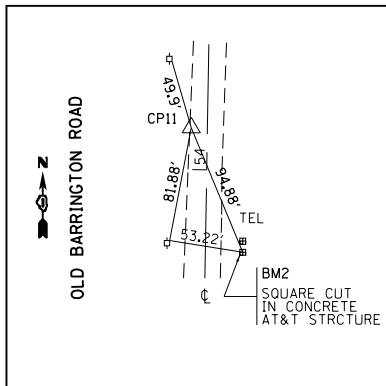
SITE BENCHMARK

SO. CUT IN CONCRETE UTIL. BASE
 STA 52+68.23 46.1' RT.
 N=2012144.5298
 E=1033900.8318
 ELEV.=782.449' NAVD88 DATUM



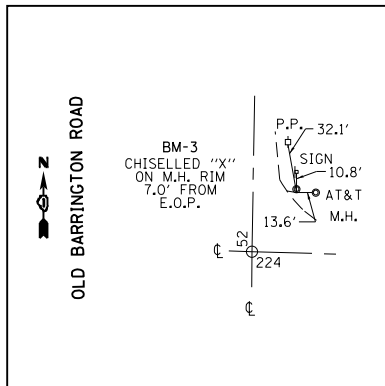
BENCHMARK #2

CHISELLED "X" ON M.H. RIM
 STA 53+24.89 19.05' RT.
 N=2012241.0860
 E=1033897.4580
 ELEV.=785.16' NAVD88 DATUM



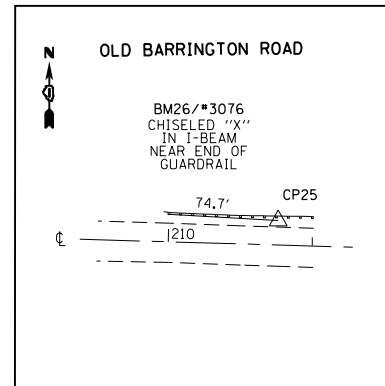
BENCHMARK #3

CHISELLED "X" ON M.H. RIM
 STA 52.62.9 45.32' RT.
 N=2012144.5070
 E=1033900.8350
 ELEV.=782.45' NAVD88 DATUM



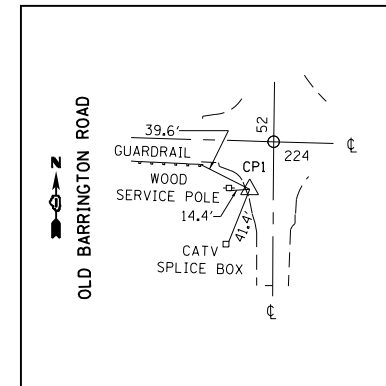
BENCHMARK #26

CHISELLED "X" IN I-BEAM
 STA. 220+75.3 16.8' LT
 N=2012160.9770
 E=1032471.9720
 ELEV.=786.39' NAVD88 DATUM



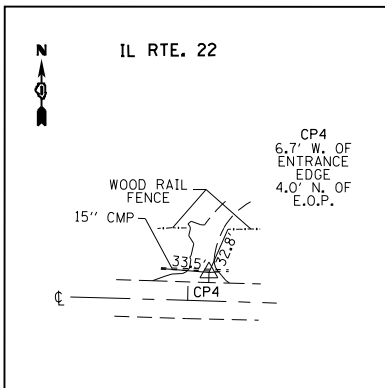
CONTROL POINT #1

PK NAIL
 STA. 51+67 LT
 N=2012066.7650
 E=1033852.8100
 ELEV.=783.115' NAVD88 DATUM



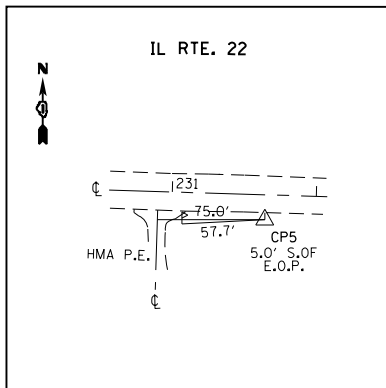
CONTROL POINT #4

SET RR SPIKE
 STA. 228+18.4 16.2' LT
 N=2012107.3220
 E=1034284.0800
 ELEV.=785.96'



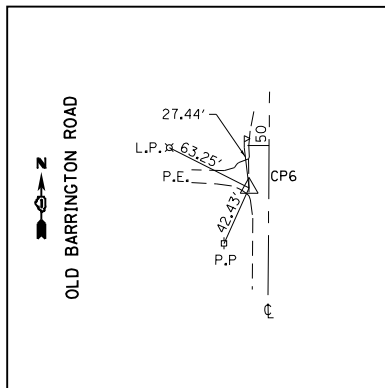
CONTROL POINT #5

REBAR
 STA. 231+67.3 15.0' RT
 N=2012059.8700
 E=1034633.3950
 ELEV.=787.16'



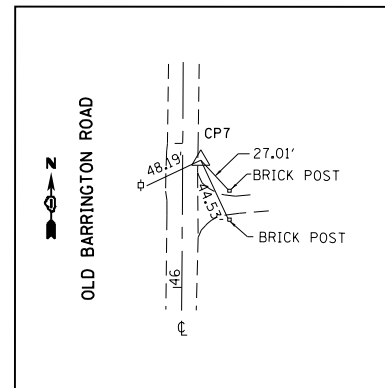
CONTROL POINT #6

SET RR SPIKE
 STA. 49+70.3 13.5' LT
 N=2011870.3550
 E=1033854.2400
 ELEV.=783.28'



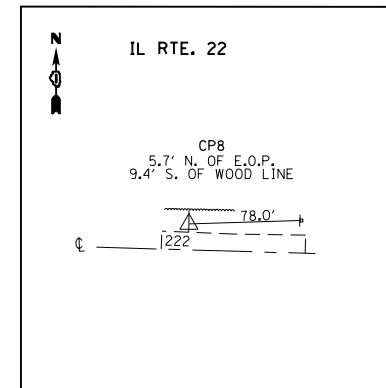
CONTROL POINT #7

SET REBAR
 STA. 46+88.4 12.6' RT
 N=2011588.2450
 E=1033878.5650
 ELEV.=785.51'



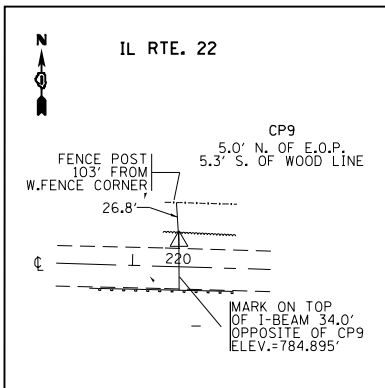
CONTROL POINT #8

SET IRON BAR
 STA. 222+18.7 18.0' LT
 N=2012123.0530
 E=1033688.8590
 ELEV.=783.265'



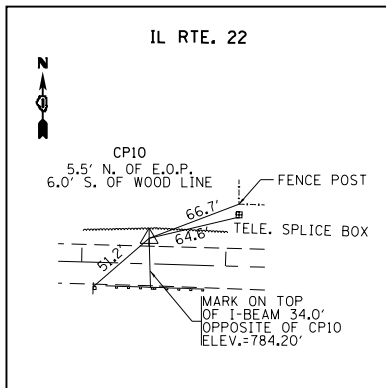
CONTROL POINT #9

IRON BAR
 STA. 220+11 17.6' LT
 N=2012128.8090
 E=1033481.3450
 ELEV.=782.41'



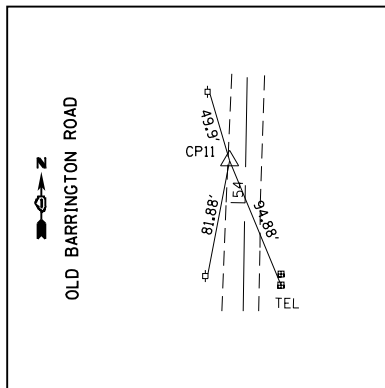
CONTROL POINT #10

IRON ROD
 STA. 218.46 17.6' LT
 N=2012133.5450
 E=1033316.6300
 ELEV.=781.70'



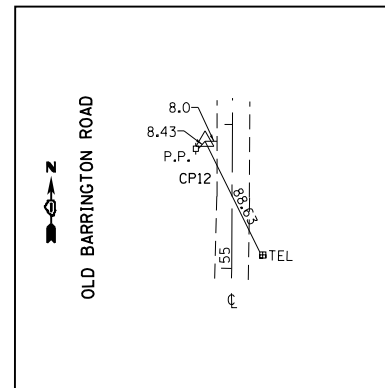
CONTROL POINT #11

SPIKE NAIL
 STA. 54+29.17 10.1' LT
 N=2012329.1300
 E=1033862.1750
 ELEV.=789.365'



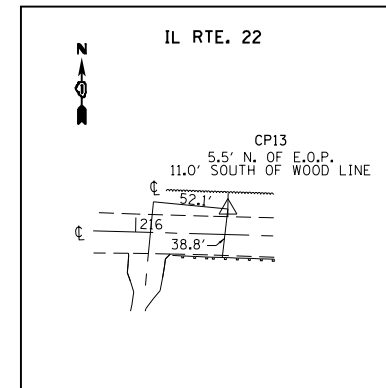
CONTROL POINT #12

SET REBAR
 STA. 55+88.6 LT
 N=2012488.1460
 E=1033856.0140
 ELEV.=800.715'



CONTROL POINT #13

REBAR
 STA. 216.63.2 17.6' LT
 N=2012138.8810
 E=1033133.9850
 ELEV.=780.51'



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

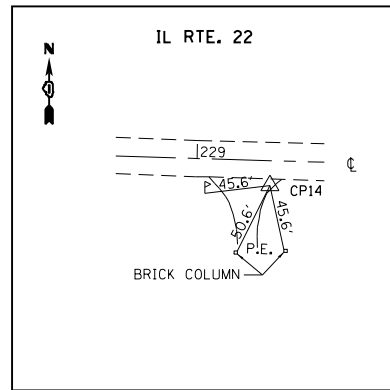
**ALIGNMENT, TIES AND BENCHMARKS
 IL. ROUTE 22 AT OLD BARRINGTON ROAD**

SCALE: SHEET 2 OF 3 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
337	19-N-2	LAKE	81	19
CONTRACT NO. 60P06				
ILLINOIS FED. AID PROJECT				

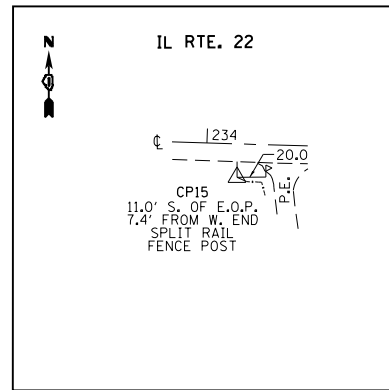
CONTROL POINT #14

PK NAIL
 STA. 229+51.5 17.2 RT
 N=2012066.2200
 E=1034419.9180
 ELEV.=786.825'



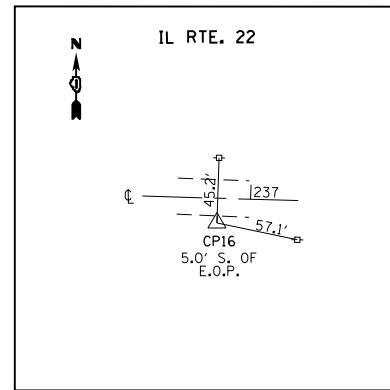
CONTROL POINT #15

IRON BAR
 STA. 234+22 23.2' RT
 N=2012046.4150
 E=1034889.8550
 ELEV.=793.70'



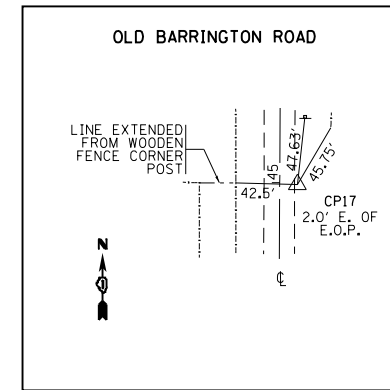
CONTROL POINT #16

IRON ROD
 STA. 236+78 17.2' RT
 N=2012044.8800
 E=1035145.5150
 ELEV.=803.79'



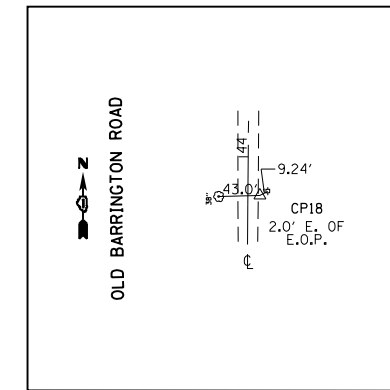
CONTROL POINT #17

SET REBAR
 STA. 44+98.2 12.5' RT
 N=20113985950
 E=1033876.9000
 ELEV.=769.105'



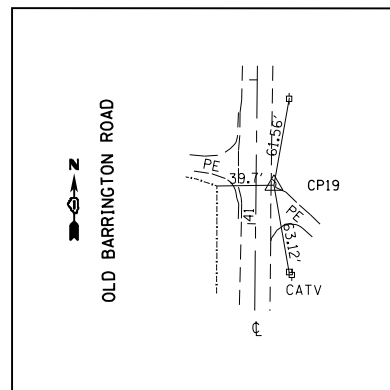
CONTROL POINT #18

SET REBAR
 STA. 43+58.8 12.4' RT
 N=2011259.4750
 E=1033876.0750
 ELEV.=803.48'



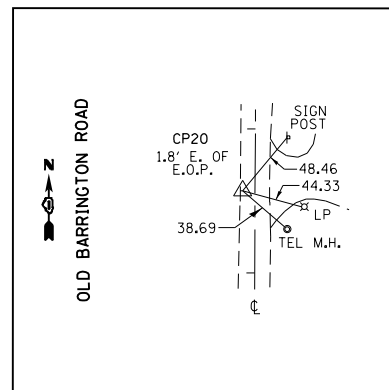
CONTROL POINT #19

RR SPIKE
 STA. 41+27 12.4' RT
 N=2011026.7300
 E=1033873.5550
 ELEV.=812.75'



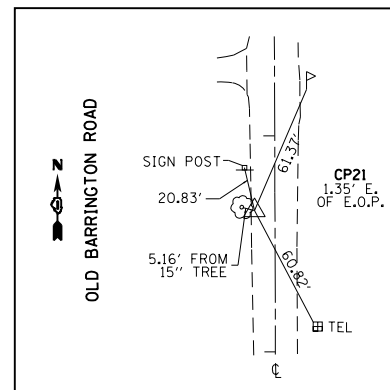
CONTROL POINT #20

SET MAGNAIL
 STA. 58+57.65 LT
 N=2012756.8180
 E=1033867.7760
 ELEV.=805.035'



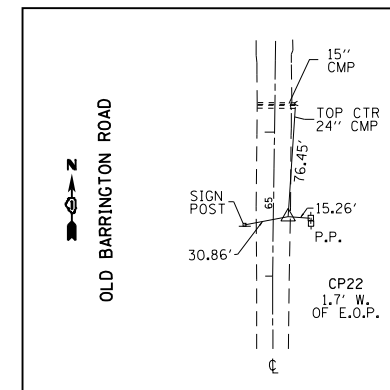
CONTROL POINT #21

SET RR SPIKE
 STA. 61+67 LT
 N=2013065.2200
 E=1033867.0800
 ELEV.=784.595'



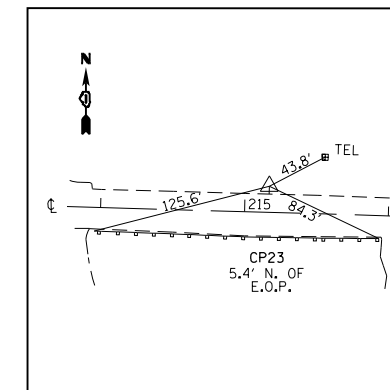
CONTROL POINT #22

SET RR SPIKE
 STA. 64+43.3 RT
 N=2012341.0400
 E=1033886.4950
 ELEV.=774.35'



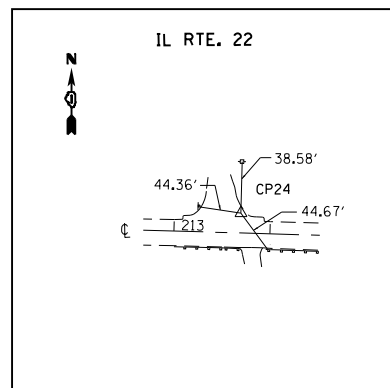
CONTROL POINT #23

REBAR
 STA. 215+16.7 18.15' LT
 N=2012143.4250
 E=1032987.0400
 ELEV.=780.23



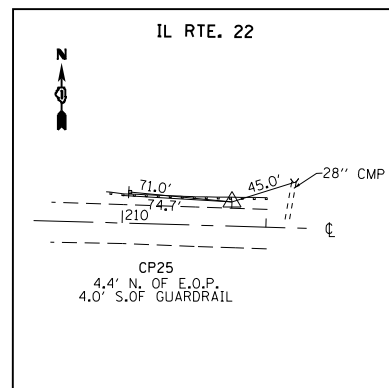
CONTROL POINT #24

RR SPIKE
 STA. 213+69.2 20.7' LT
 N=2012150.2700
 E=1032839.6800
 ELEV.=779.73'



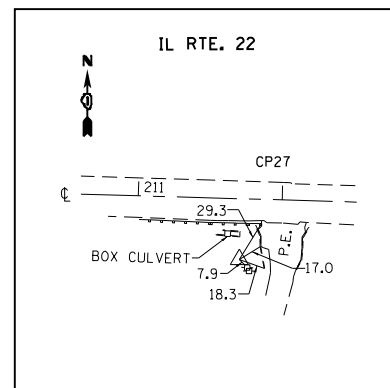
CONTROL POINT #25

SET RR SPIKE
 STA. 64+43.3 RT
 N=2012341.0400
 E=1033886.4950
 ELEV.=774.35



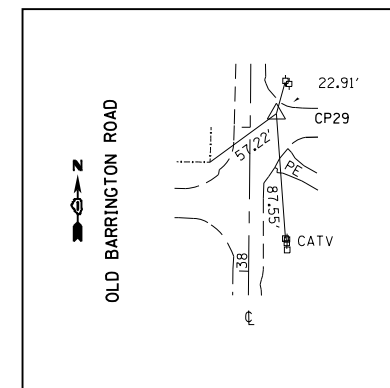
CONTROL POINT #27

REBAR
 STA. 211+71 42.2' RT
 N=2012093.0550
 E=1032640.1300
 ELEV.=781.84'



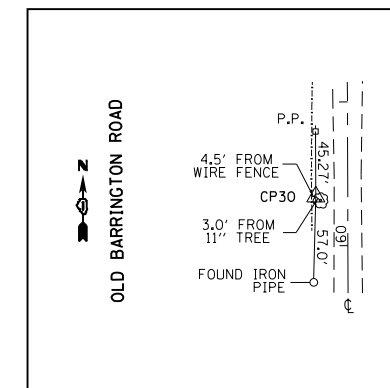
CONTROL POINT #29

RR SPIKE
 STA. 39+09.6 18.1' RT
 N=2010809.3300
 E=1033876.8450
 ELEV.=819.79'



CONTROL POINT #30

FOUND IRON PIPE
 STA. 60+35 LT
 N=2012933.9440
 E=1033854.8080
 ELEV.=802.88'

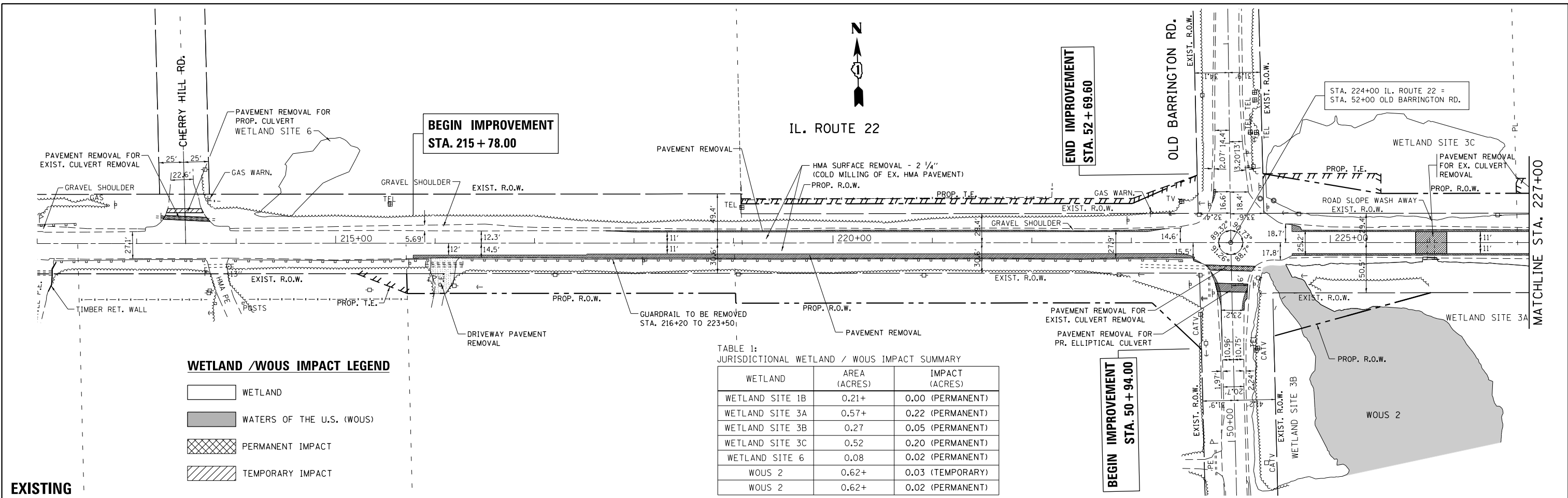


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	PLOT DATE = 2/10/2015	DATE -	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

ALIGNMENT, TIES AND BENCHMARKS			
IL. ROUTE 22 AT OLD BARRINGTON ROAD			
SCALE:	SHEET 3	OF 3 SHEETS	STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
337	19-N-2	LAKE	81	20
CONTRACT NO. 60P06				
ILLINOIS FED. AID PROJECT				



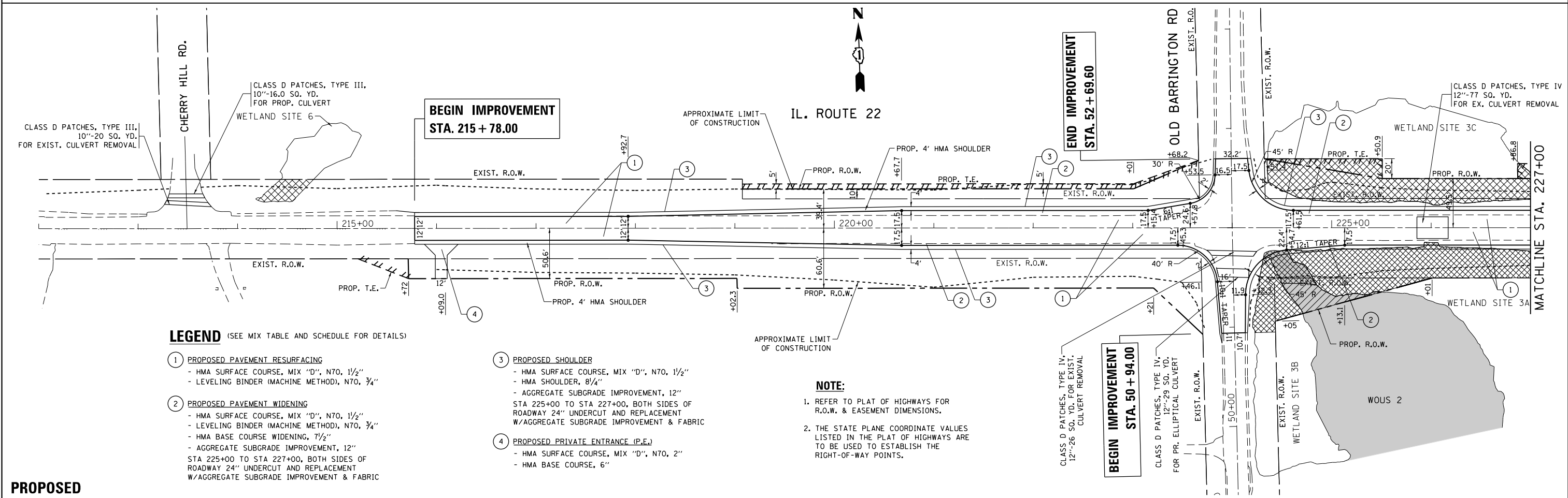
WETLAND /WOUS IMPACT LEGEND

[White Box]	WETLAND
[Grey Box]	WATERS OF THE U.S. (WOUS)
[Cross-hatched Box]	PERMANENT IMPACT
[Diagonal-hatched Box]	TEMPORARY IMPACT

TABLE 1: JURISDICTIONAL WETLAND /WOUS IMPACT SUMMARY

WETLAND	AREA (ACRES)	IMPACT (ACRES)
WETLAND SITE 1B	0.21+	0.00 (PERMANENT)
WETLAND SITE 3A	0.57+	0.22 (PERMANENT)
WETLAND SITE 3B	0.27	0.05 (PERMANENT)
WETLAND SITE 3C	0.52	0.20 (PERMANENT)
WETLAND SITE 6	0.08	0.02 (PERMANENT)
WOUS 2	0.62+	0.03 (TEMPORARY)
WOUS 2	0.62+	0.02 (PERMANENT)

EXISTING



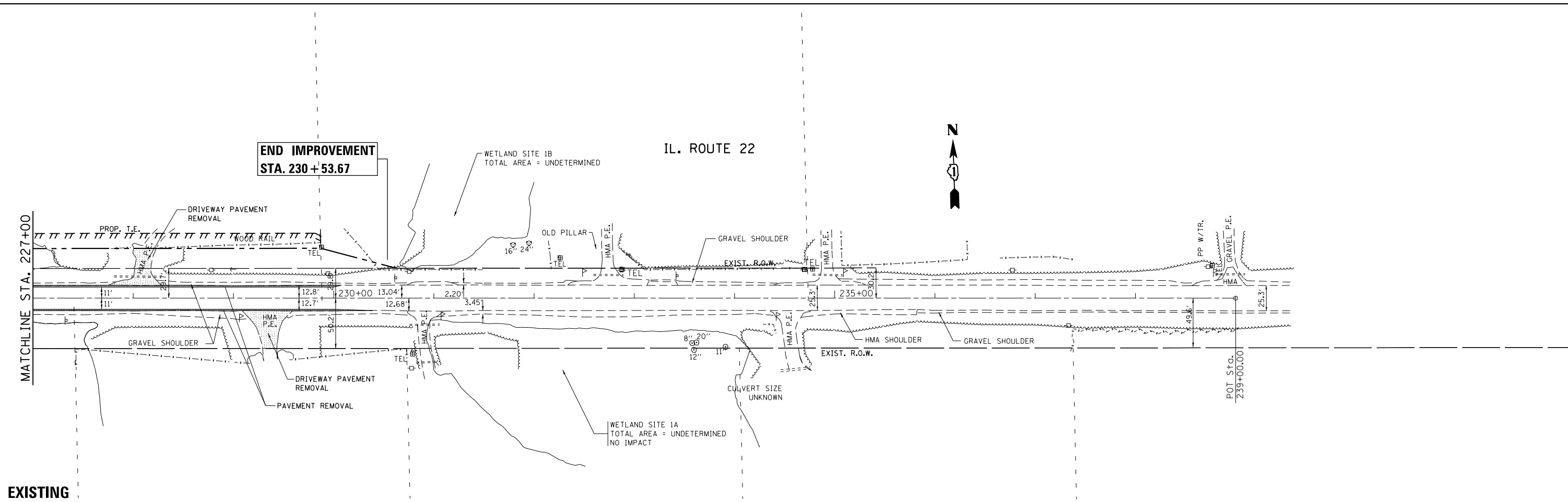
- LEGEND (SEE MIX TABLE AND SCHEDULE FOR DETAILS)**
- ① **PROPOSED PAVEMENT RESURFACING**
 - HMA SURFACE COURSE, MIX "D", N70, 1 1/2"
 - LEVELING BINDER (MACHINE METHOD), N70, 3/4"
 - ② **PROPOSED PAVEMENT WIDENING**
 - HMA SURFACE COURSE, MIX "D", N70, 1 1/2"
 - LEVELING BINDER (MACHINE METHOD), N70, 3/4"
 - HMA BASE COURSE WIDENING, 7 1/2"
 - AGGREGATE SUBGRADE IMPROVEMENT, 12"
 - STA 225+00 TO STA 227+00, BOTH SIDES OF ROADWAY 24" UNDERCUT AND REPLACEMENT W/AGGREGATE SUBGRADE IMPROVEMENT & FABRIC
 - ③ **PROPOSED SHOULDER**
 - HMA SURFACE COURSE, MIX "D", N70, 1 1/2"
 - HMA SHOULDER, 8 1/4"
 - AGGREGATE SUBGRADE IMPROVEMENT, 12"
 - STA 225+00 TO STA 227+00, BOTH SIDES OF ROADWAY 24" UNDERCUT AND REPLACEMENT W/AGGREGATE SUBGRADE IMPROVEMENT & FABRIC
 - ④ **PROPOSED PRIVATE ENTRANCE (P.E.)**
 - HMA SURFACE COURSE, MIX "D", N70, 2"
 - HMA BASE COURSE, 6"

NOTE:

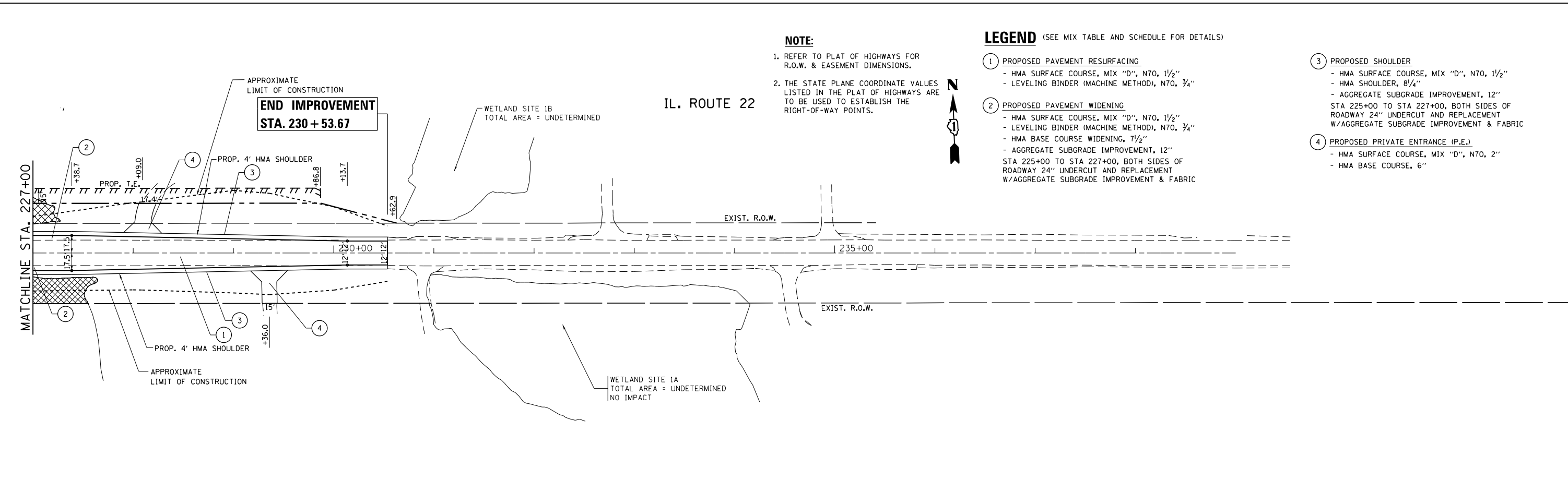
- REFER TO PLAT OF HIGHWAYS FOR R.O.W. & EASEMENT DIMENSIONS.
- THE STATE PLANE COORDINATE VALUES LISTED IN THE PLAT OF HIGHWAYS ARE TO BE USED TO ESTABLISH THE RIGHT-OF-WAY POINTS.

PROPOSED

FILE NAME =	USER NAME = Velichkovv	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	EXISTING AND PROPOSED ROADWAY PLAN IL. ROUTE 22 AT OLD BARRINGTON ROAD	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
es:\pw\work\p\dot\velichkovv\0184132\F44509-sht.plnpr.f.dgn	PLOT SCALE = 100.0000' / in.	DRAWN -	REVISED -			337	19-N-2	LAKE	81	21	
Default	PLOT DATE = 2/10/2015	CHECKED -	REVISED -			CONTRACT NO. 60P06					
		DATE -	REVISED -			ILLINOIS FED. AID PROJECT					



EXISTING



PROPOSED

NOTE:

1. REFER TO PLAT OF HIGHWAYS FOR R.O.W. & EASEMENT DIMENSIONS.
2. THE STATE PLANE COORDINATE VALUES LISTED IN THE PLAT OF HIGHWAYS ARE TO BE USED TO ESTABLISH THE RIGHT-OF-WAY POINTS.

LEGEND (SEE MIX TABLE AND SCHEDULE FOR DETAILS)

- ① PROPOSED PAVEMENT RESURFACING
 - HMA SURFACE COURSE, MIX "D", N70, 1 1/2"
 - LEVELING BINDER (MACHINE METHOD), N70, 3/4"
- ② PROPOSED PAVEMENT WIDENING
 - HMA SURFACE COURSE, MIX "D", N70, 1 1/2"
 - LEVELING BINDER (MACHINE METHOD), N70, 3/4"
 - HMA BASE COURSE WIDENING, 7 1/2"
 - AGGREGATE SUBGRADE IMPROVEMENT, 12"
 - STA 225+00 TO STA 227+00, BOTH SIDES OF ROADWAY 24" UNDERCUT AND REPLACEMENT W/AGGREGATE SUBGRADE IMPROVEMENT & FABRIC
- ③ PROPOSED SHOULDER
 - HMA SURFACE COURSE, MIX "D", N70, 1 1/2"
 - HMA SHOULDER, 8 1/4"
 - AGGREGATE SUBGRADE IMPROVEMENT, 12"
 - STA 225+00 TO STA 227+00, BOTH SIDES OF ROADWAY 24" UNDERCUT AND REPLACEMENT W/AGGREGATE SUBGRADE IMPROVEMENT & FABRIC
- ④ PROPOSED PRIVATE ENTRANCE (P.E.)
 - HMA SURFACE COURSE, MIX "D", N70, 2"
 - HMA BASE COURSE, 6"

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	PLOT DATE = 2/10/2015	DATE -	REVISED -

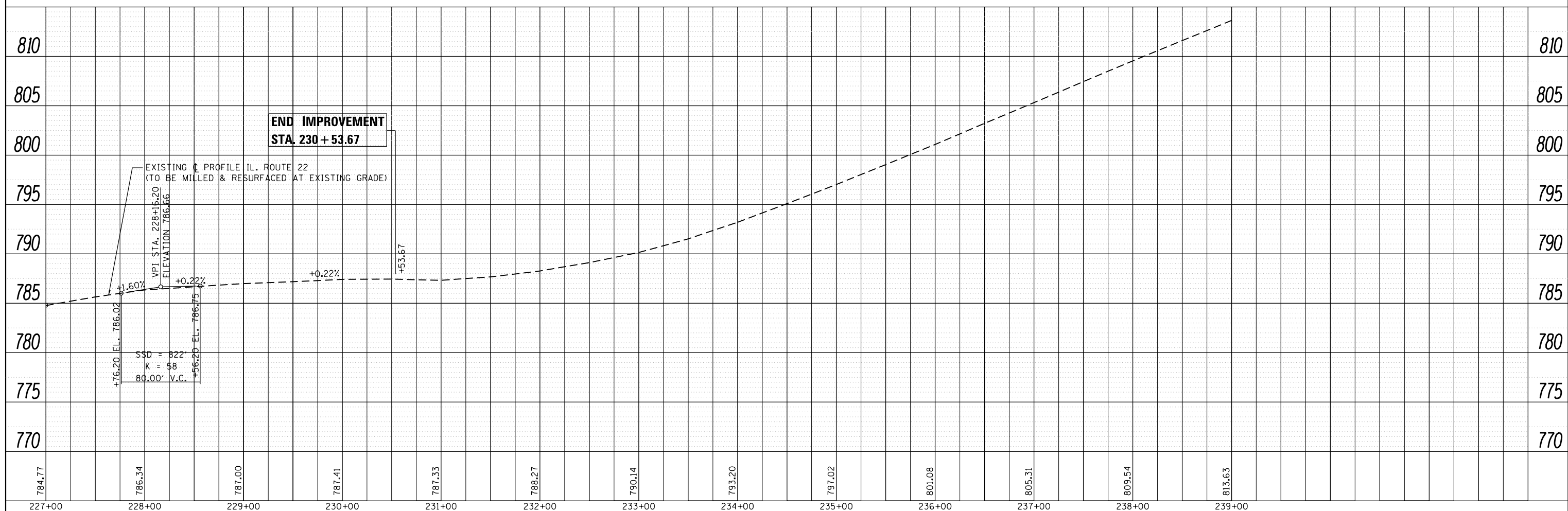
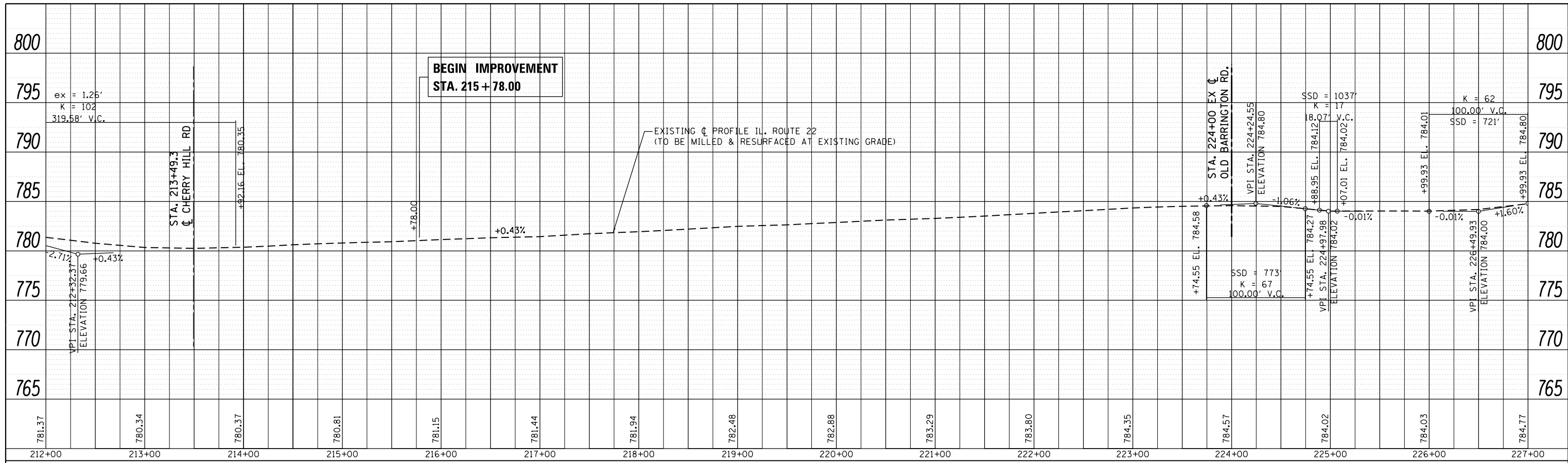
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

EXISTING AND PROPOSED ROADWAY PLAN IL. ROUTE 22 AT OLD BARRINGTON ROAD			
SCALE: 1" = 50'	SHEET	OF	SHEETS
	STA.	TO	STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
337	19-N-2	LAKE	81	22
CONTRACT NO. 60P06				
ILLINOIS FED. AID PROJECT				

PLAN	SURVEYED	BY	DATE
	PLOTTED		
	GRADES CHECKED		
	STRUCTURE NOTATIONS CHECKED		
	NOTE BOOK NO.		
	CARD FILE NAME		

PROFILE	SURVEYED	BY	DATE
	PLOTTED		
	GRADES CHECKED		
	STRUCTURE NOTATIONS CHECKED		
	NOTE BOOK NO.		
	CARD FILE NAME		



FILE NAME =	USER NAME = velichkovvv	DESIGNED -	REVISED -
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Default	PLOT SCALE = 100.0000' / in.	CHECKED -	REVISED -
	PLOT DATE = 2/10/2015	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

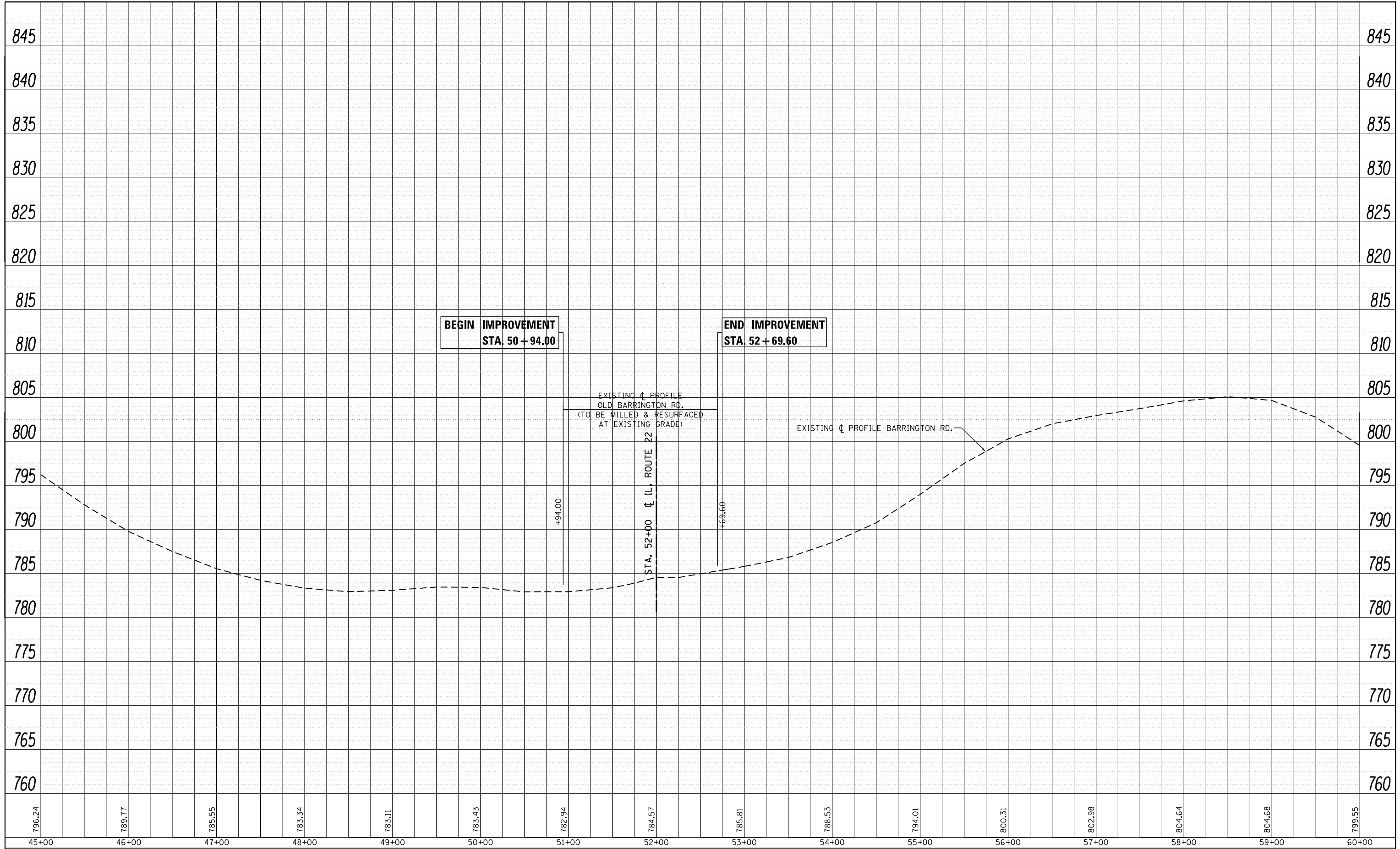
**EXISTING AND PROPOSED PROFILE
IL. ROUTE 22 AT OLD BARRINGTON ROAD**

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
337	19-N-2	LAKE	81	23
CONTRACT NO. 60P06				
ILLINOIS FED. AID PROJECT				

PLAN	SURVEYED	DATE
	PLOTTED	
	ALIGNMENT	
	CHECKED	
	NO. _____	
	NOTE BOOK	
	NO. _____	
	CARD FILE NAME	

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



FILE NAME =	USER NAME = velichkovv	DESIGNED -	REVISED -
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	PLOT DATE = 2/10/2015	DATE -	REVISED -

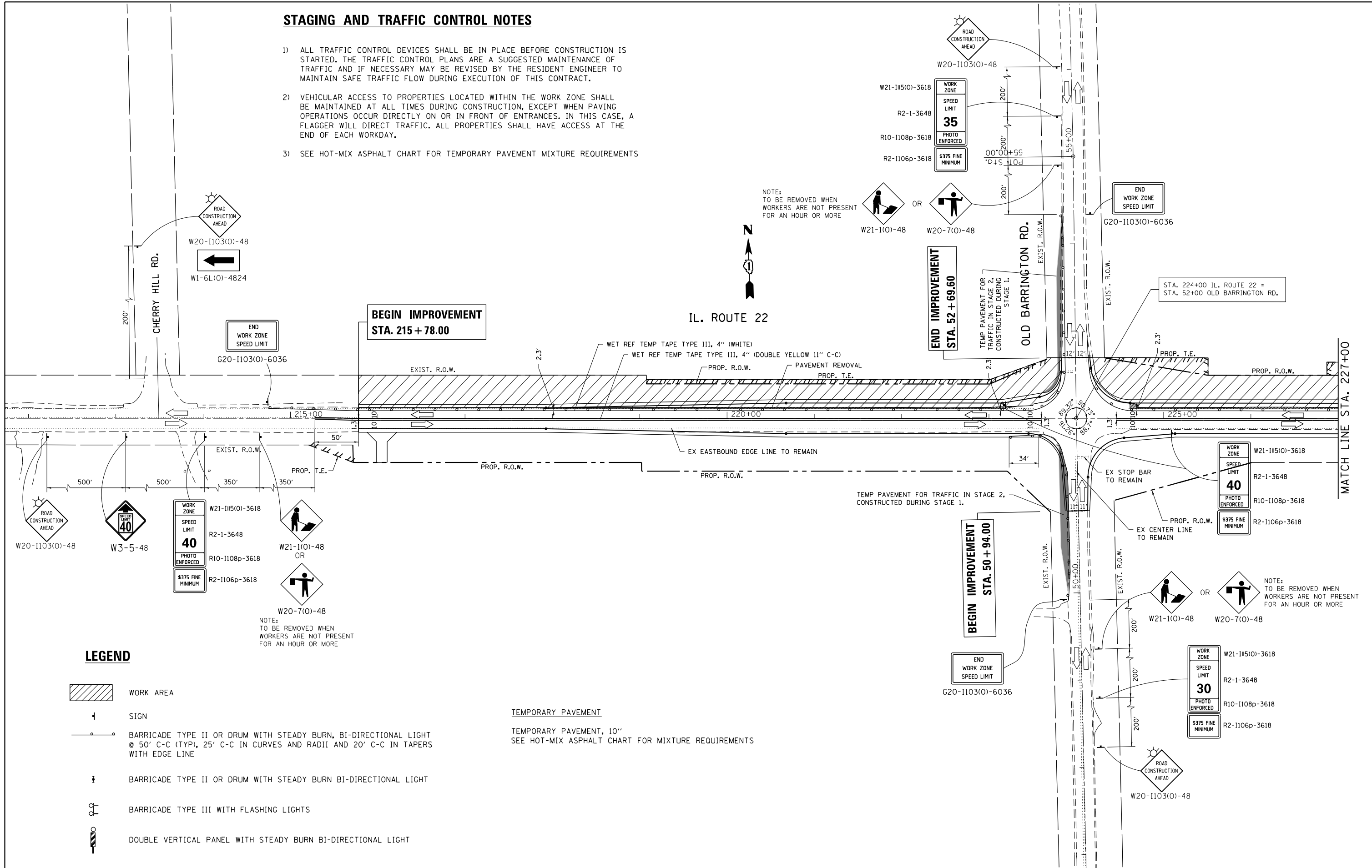
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

EXISTING AND PROPOSED PROFILE			
IL. ROUTE 22 AT OLD BARRINGTON ROAD			
SCALE: 1" = 50'	SHEET	OF	SHEETS
	STA.		TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
337	19-N-2	LAKE	81	24
				CONTRACT NO. 60P06
ILLINOIS FED. AID PROJECT				

STAGING AND TRAFFIC CONTROL NOTES

- 1) ALL TRAFFIC CONTROL DEVICES SHALL BE IN PLACE BEFORE CONSTRUCTION IS STARTED. THE TRAFFIC CONTROL PLANS ARE A SUGGESTED MAINTENANCE OF TRAFFIC AND IF NECESSARY MAY BE REVISED BY THE RESIDENT ENGINEER TO MAINTAIN SAFE TRAFFIC FLOW DURING EXECUTION OF THIS CONTRACT.
- 2) VEHICULAR ACCESS TO PROPERTIES LOCATED WITHIN THE WORK ZONE SHALL BE MAINTAINED AT ALL TIMES DURING CONSTRUCTION, EXCEPT WHEN PAVING OPERATIONS OCCUR DIRECTLY ON OR IN FRONT OF ENTRANCES. IN THIS CASE, A FLAGGER WILL DIRECT TRAFFIC. ALL PROPERTIES SHALL HAVE ACCESS AT THE END OF EACH WORKDAY.
- 3) SEE HOT-MIX ASPHALT CHART FOR TEMPORARY PAVEMENT MIXTURE REQUIREMENTS

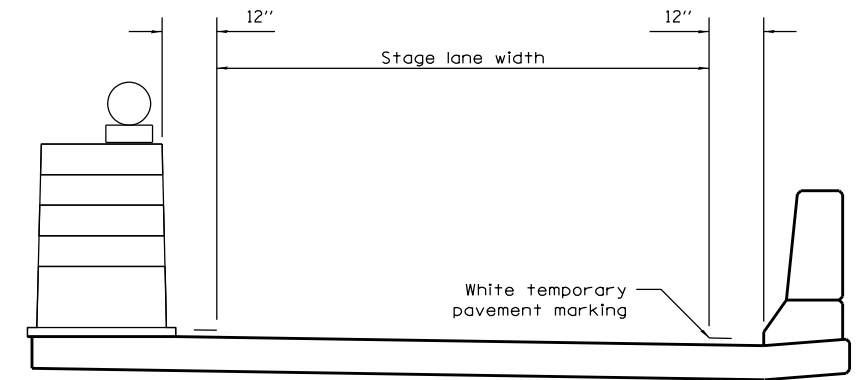


LEGEND

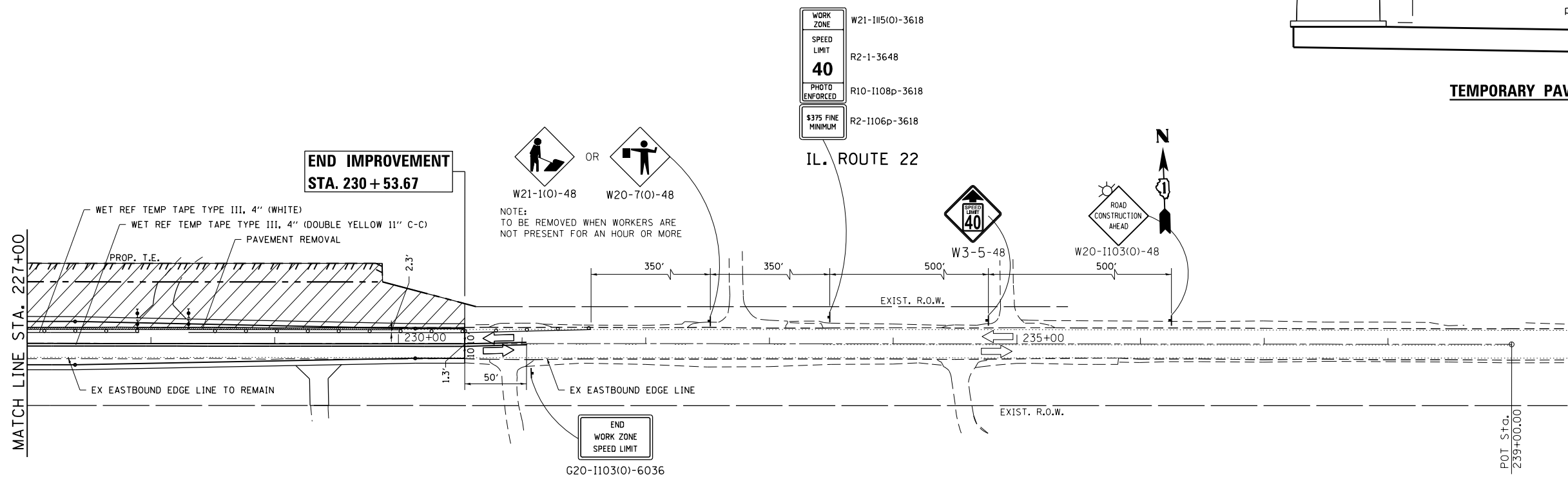
- WORK AREA
- SIGN
- BARRICADE TYPE II OR DRUM WITH STEADY BURN, BI-DIRECTIONAL LIGHT @ 50' C-C (TYP), 25' C-C IN CURVES AND RADII AND 20' C-C IN TAPERS WITH EDGE LINE
- BARRICADE TYPE II OR DRUM WITH STEADY BURN BI-DIRECTIONAL LIGHT
- BARRICADE TYPE III WITH FLASHING LIGHTS
- DOUBLE VERTICAL PANEL WITH STEADY BURN BI-DIRECTIONAL LIGHT

TEMPORARY PAVEMENT
 TEMPORARY PAVEMENT, 10"
 SEE HOT-MIX ASPHALT CHART FOR MIXTURE REQUIREMENTS

FILE NAME = c:\pw\work\p1dot\velichkovv\d0184109\F	USER NAME = Velichkovv 44509-sht-staging.dgn	DESIGNED - DRAWN -	REVISED - REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	IL 22 AT OLD BARRINGTON ROAD STAGE I TRAFFIC CONTROL			F.A.P RTE. 337	SECTION 19-N-2	COUNTY LAKE	TOTAL SHEETS 81	SHEET NO. 25
Default	PLOT SCALE = 100.0000' / in. PLOT DATE = 2/10/2015	CHECKED - DATE -	REVISED - REVISED -		SCALE: 1" = 50'	SHEET	OF SHEETS	STA.	TO STA.	CONTRACT NO. 60P06 ILLINOIS FED. AID PROJECT		

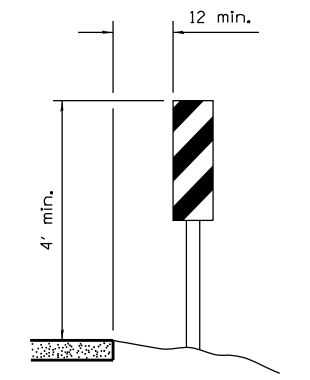


TEMPORARY PAVEMENT MARKING

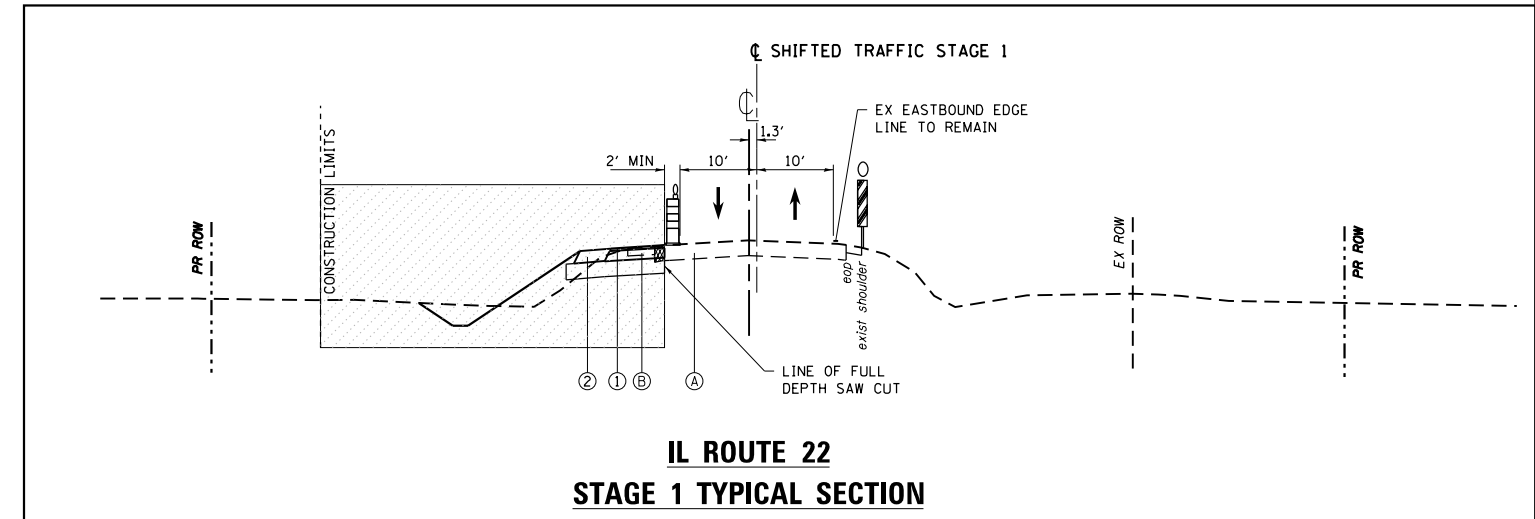


LEGEND

- WORK AREA
- SIGN
- BARRICADE TYPE II OR DRUM WITH STEADY BURN, BI-DIRECTIONAL LIGHT @ 50' C-C (TYP), 25' C-C IN CURVES AND RADII AND 20' C-C IN TAPERS WITH EDGE LINE
- BARRICADE TYPE II OR DRUM WITH STEADY BURN BI-DIRECTIONAL LIGHT
- BARRICADE TYPE III WITH FLASHING LIGHTS
- DOUBLE VERTICAL PANEL WITH STEADY BURN BI-DIRECTIONAL LIGHT



VERTICAL PANELS
(Post mounted, one each side)



- (A) EXISTING ROADWAY
- (B) EXISTING SHOULDER
- (1) PROPOSED ROADWAY
- (2) PROPOSED SHOULDER
- (3) PROPOSED CULVERT, AUGURED AND JACKED

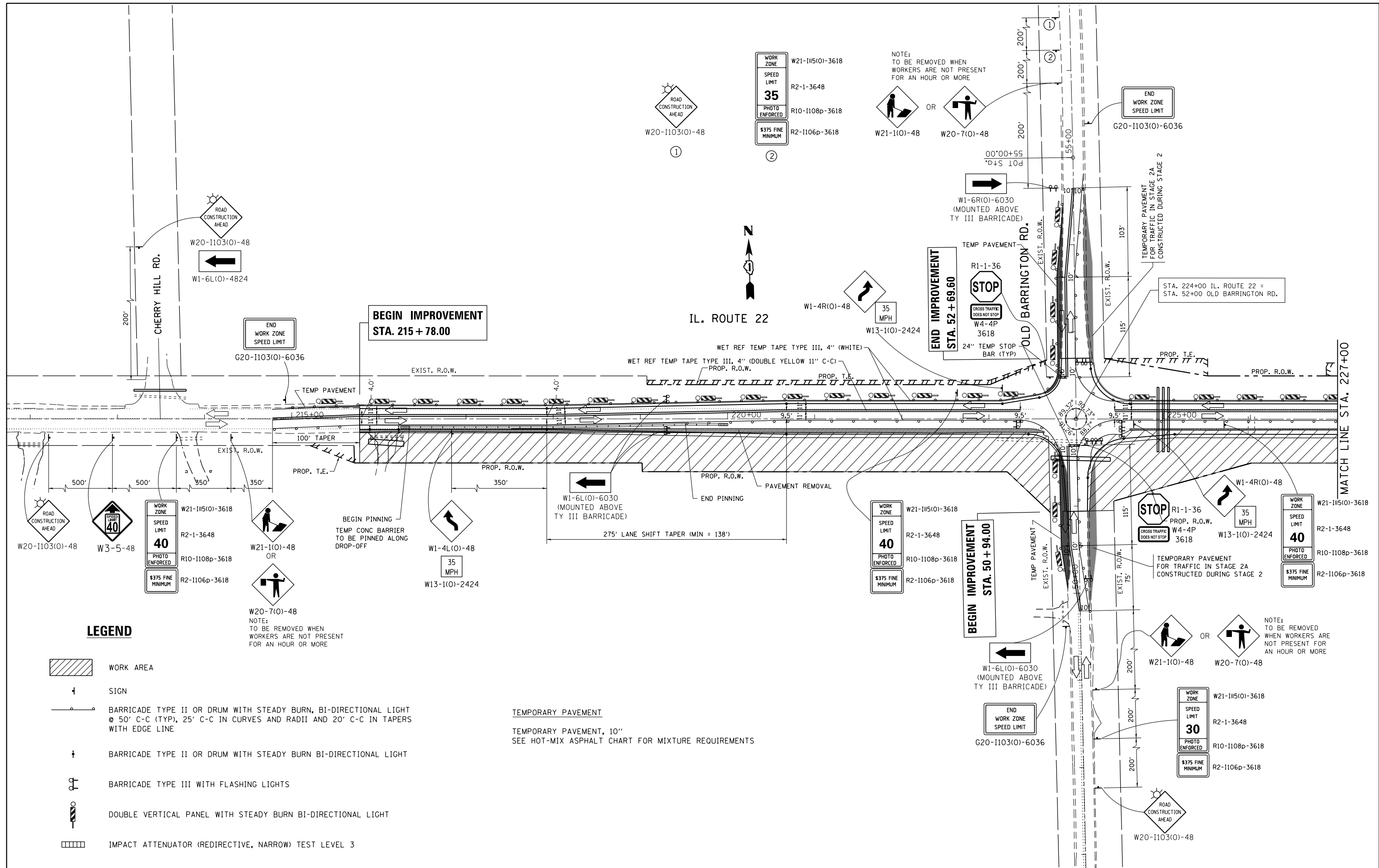
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	PLOT DATE = 2/10/2015	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**IL 22 AT OLD BARRINGTON ROAD
STAGE I TRAFFIC CONTROL**

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
337	19-N-2	LAKE	81	26
CONTRACT NO. 60P06			ILLINOIS FED. AID PROJECT	



LEGEND

- WORK AREA
- SIGN
- BARRICADE TYPE II OR DRUM WITH STEADY BURN, BI-DIRECTIONAL LIGHT @ 50' C-C (TYP), 25' C-C IN CURVES AND RADII AND 20' C-C IN TAPERS WITH EDGE LINE
- BARRICADE TYPE II OR DRUM WITH STEADY BURN BI-DIRECTIONAL LIGHT
- BARRICADE TYPE III WITH FLASHING LIGHTS
- DOUBLE VERTICAL PANEL WITH STEADY BURN BI-DIRECTIONAL LIGHT
- IMPACT ATTENUATOR (REDIRECTIVE, NARROW) TEST LEVEL 3

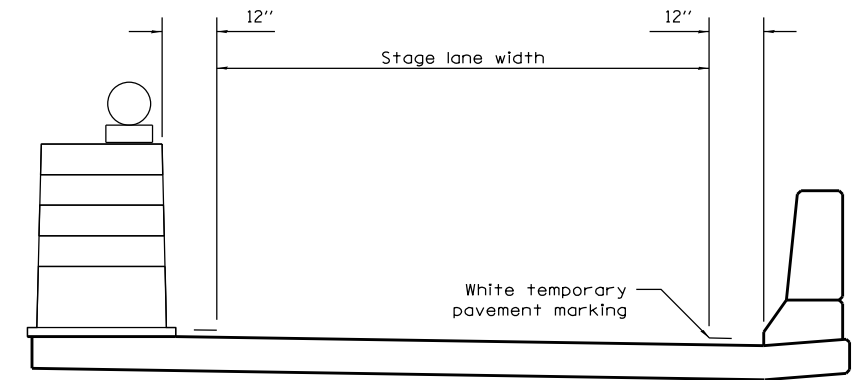
W20-7(0)-48
NOTE:
TO BE REMOVED WHEN
WORKERS ARE NOT PRESENT
FOR AN HOUR OR MORE

TEMPORARY PAVEMENT
TEMPORARY PAVEMENT, 10"
SEE HOT-MIX ASPHALT CHART FOR MIXTURE REQUIREMENTS

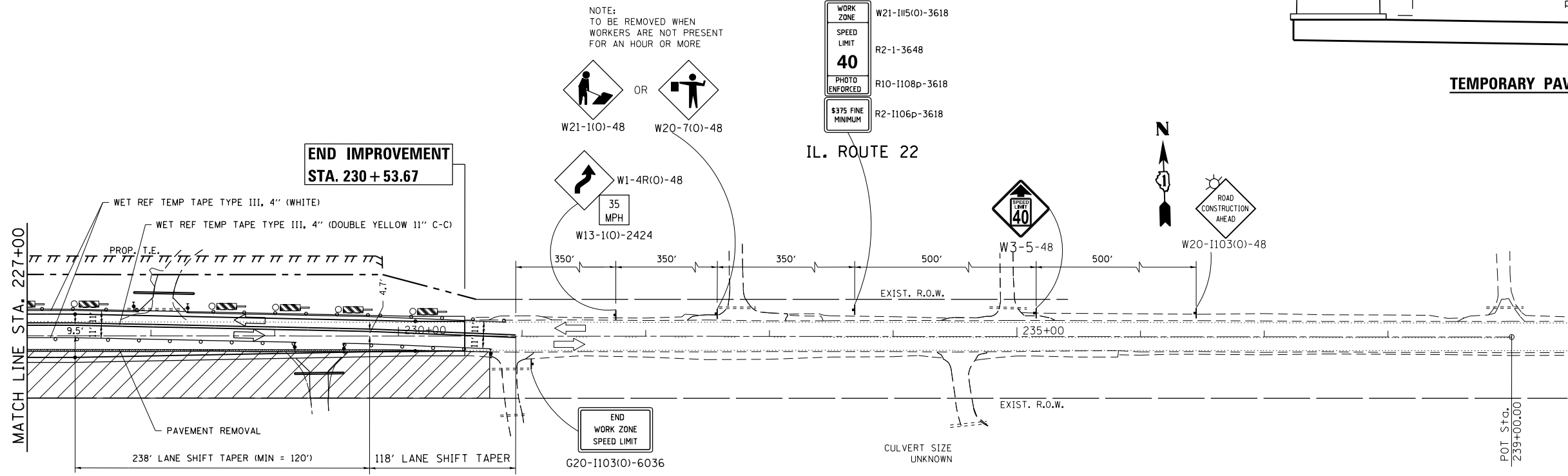
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Default	PLOT SCALE = 100.0000' / in.	CHECKED -	REVISED -
	PLOT DATE = 2/10/2015	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

IL 22 AT OLD BARRINGTON ROAD STAGE II TRAFFIC CONTROL		F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
SCALE: 1" = 50'	SHEET OF SHEETS	337	19-N-2	LAKE	81	27
STA. TO STA.	CONTRACT NO. 60P06					
ILLINOIS FED. AID PROJECT						



TEMPORARY PAVEMENT MARKING



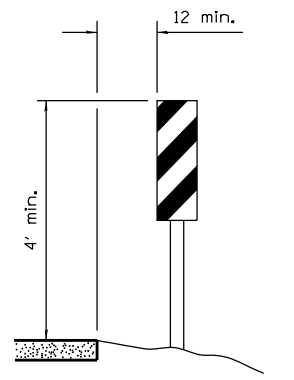
NOTE:
TO BE REMOVED WHEN
WORKERS ARE NOT PRESENT
FOR AN HOUR OR MORE

WORK ZONE
SPEED LIMIT
40
PHOTO ENFORCED
\$375 FINE MINIMUM

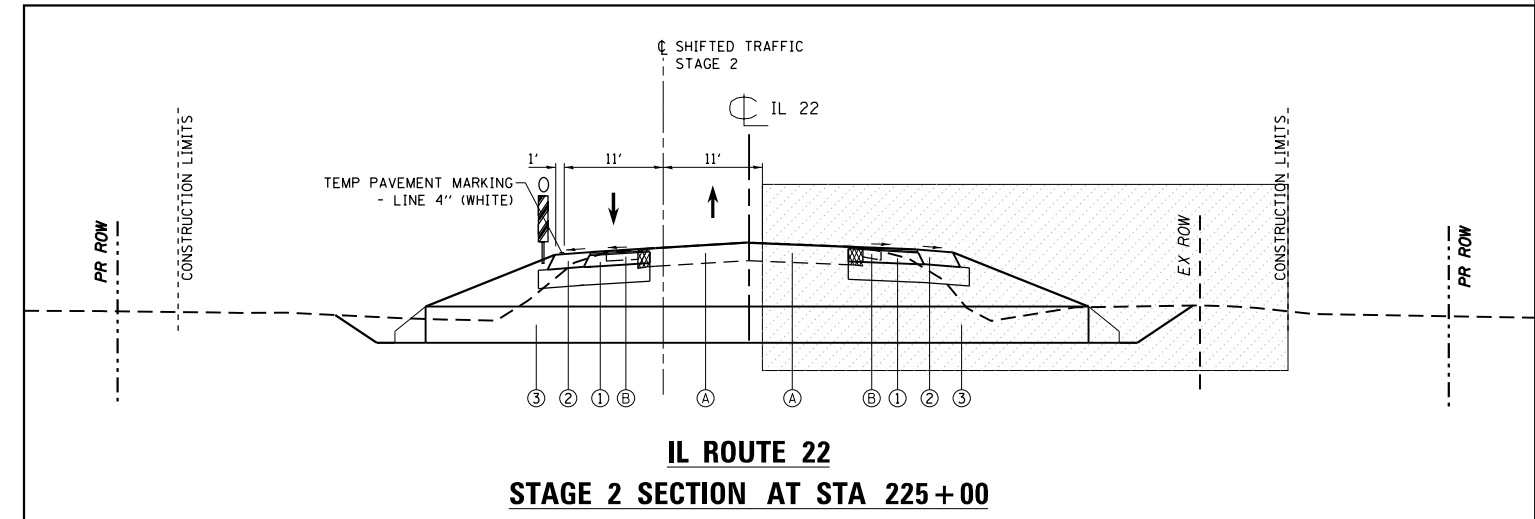
IL. ROUTE 22

LEGEND

- WORK AREA
- SIGN
- BARRICADE TYPE II OR DRUM WITH STEADY BURN, BI-DIRECTIONAL LIGHT @ 50' C-C (TYP), 25' C-C IN CURVES AND RADII AND 20' C-C IN TAPERS WITH EDGE LINE
- BARRICADE TYPE II OR DRUM WITH STEADY BURN BI-DIRECTIONAL LIGHT
- BARRICADE TYPE III WITH FLASHING LIGHTS
- DOUBLE VERTICAL PANEL WITH STEADY BURN BI-DIRECTIONAL LIGHT
- IMPACT ATTENUATOR (REDIRECTIVE, NARROW) TEST LEVEL 3



VERTICAL PANELS
(Post mounted, one each side)



**IL ROUTE 22
STAGE 2 SECTION AT STA 225 + 00**

- (A) EXISTING ROADWAY
- (B) EXISTING SHOULDER
- (1) PROPOSED ROADWAY
- (2) PROPOSED SHOULDER
- (3) PROPOSED CULVERT, AUGURED AND JACKED

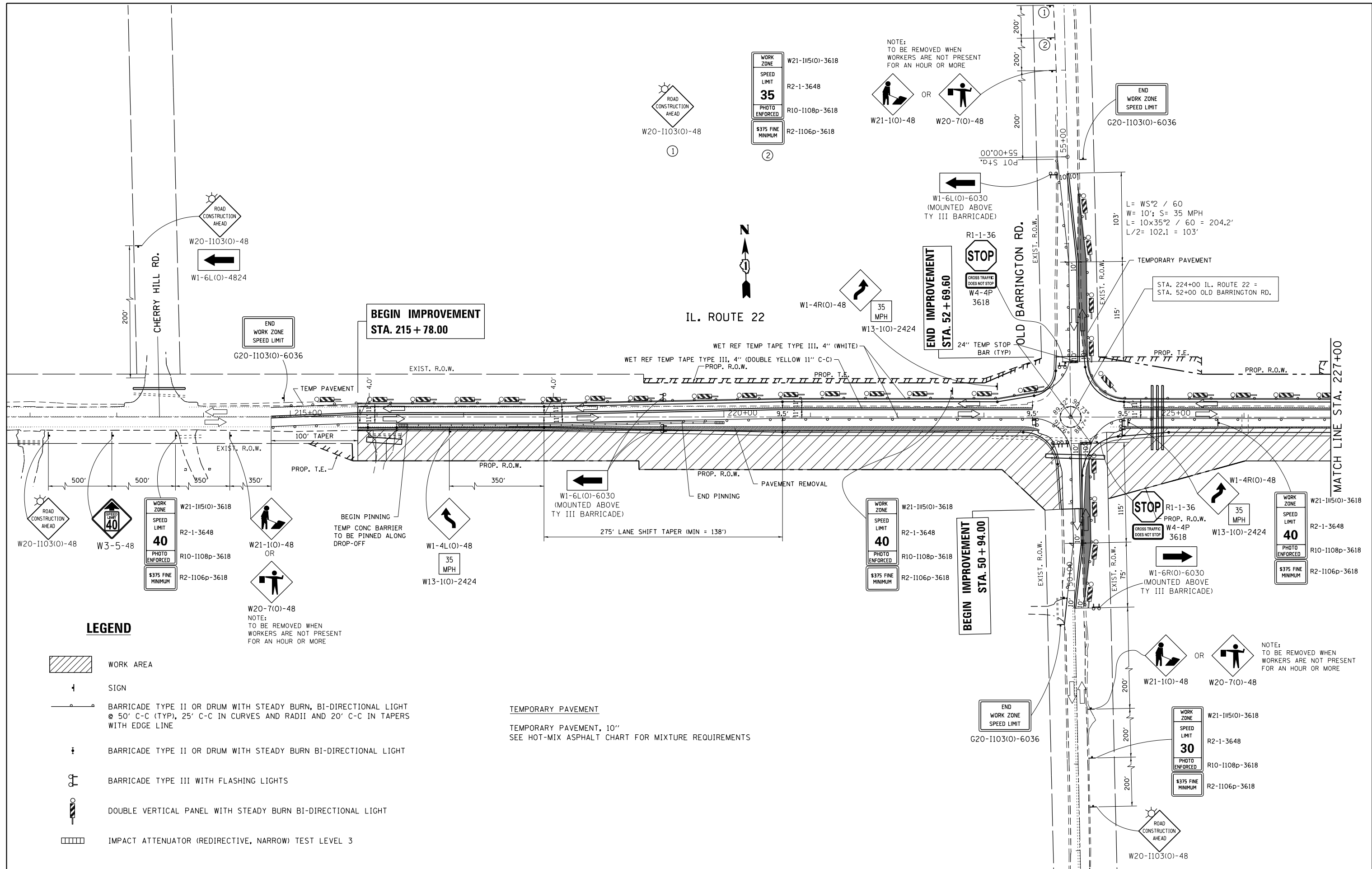
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Default	PLOT SCALE = 100.0000' / in.	CHECKED -	REVISED -
	PLOT DATE = 2/10/2015	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**IL 22 AT OLD BARRINGTON ROAD
STAGE II TRAFFIC CONTROL**

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
337	19-N-2	LAKE	81	28
CONTRACT NO. 60P06				
ILLINOIS FED. AID PROJECT				



LEGEND

- WORK AREA
- SIGN
- BARRICADE TYPE II OR DRUM WITH STEADY BURN, BI-DIRECTIONAL LIGHT @ 50' C-C (TYP), 25' C-C IN CURVES AND RADII AND 20' C-C IN TAPERS WITH EDGE LINE
- BARRICADE TYPE II OR DRUM WITH STEADY BURN BI-DIRECTIONAL LIGHT
- BARRICADE TYPE III WITH FLASHING LIGHTS
- DOUBLE VERTICAL PANEL WITH STEADY BURN BI-DIRECTIONAL LIGHT
- IMPACT ATTENUATOR (REDIRECTIVE, NARROW) TEST LEVEL 3

TEMPORARY PAVEMENT
 TEMPORARY PAVEMENT, 10"
 SEE HOT-MIX ASPHALT CHART FOR MIXTURE REQUIREMENTS

W20-7(O)-48
 NOTE:
 TO BE REMOVED WHEN
 WORKERS ARE NOT PRESENT
 FOR AN HOUR OR MORE

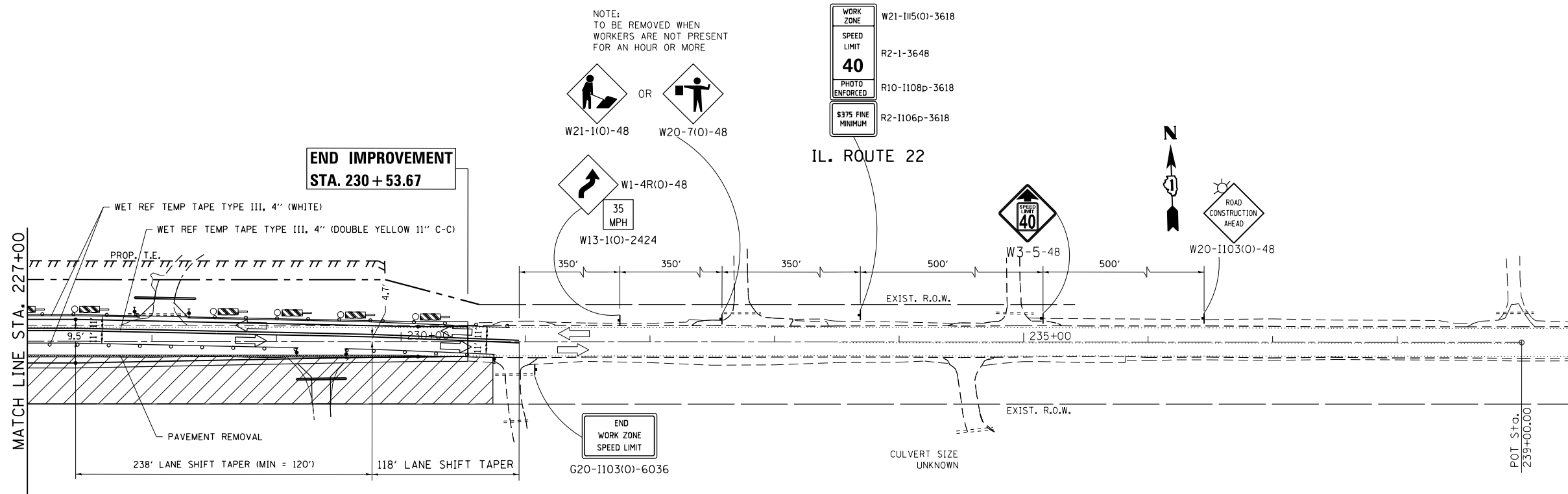
NOTE:
 TO BE REMOVED WHEN
 WORKERS ARE NOT PRESENT
 FOR AN HOUR OR MORE

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	PLOT DATE = 2/10/2015	DATE -	REVISED -








**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

IL 22 AT OLD BARRINGTON ROAD STAGE II-A TRAFFIC CONTROL	
SCALE: 1" = 50'	SHEET OF SHEETS STA. TO STA.

F.A.P. RTE. 337	SECTION 19-N-2	COUNTY LAKE	TOTAL SHEETS 81	SHEET NO. 29
CONTRACT NO. 60P06				
ILLINOIS FED. AID PROJECT				



LEGEND

-  WORK AREA
-  SIGN
-  BARRICADE TYPE II OR DRUM WITH STEADY BURN, BI-DIRECTIONAL LIGHT @ 50' C-C (TYP), 25' C-C IN CURVES AND RADII AND 20' C-C IN TAPERS WITH EDGE LINE
-  BARRICADE TYPE II OR DRUM WITH STEADY BURN BI-DIRECTIONAL LIGHT
-  BARRICADE TYPE III WITH FLASHING LIGHTS
-  DOUBLE VERTICAL PANEL WITH STEADY BURN BI-DIRECTIONAL LIGHT
-  IMPACT ATTENUATOR (REDIRECTIVE, NARROW) TEST LEVEL 3

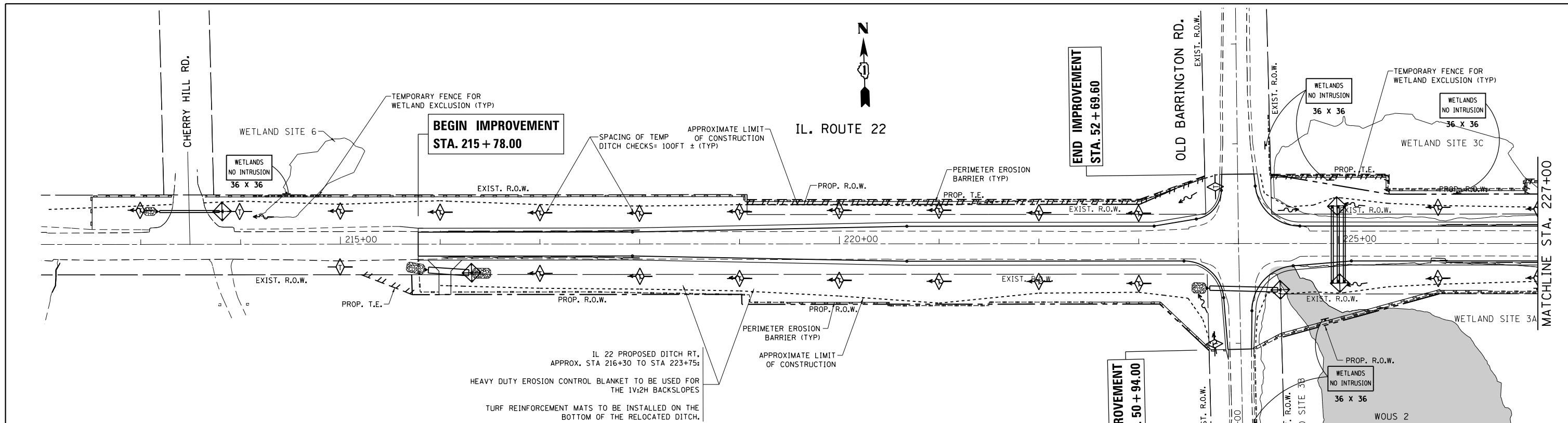
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Default	PLOT SCALE = 100.0000' / in.	CHECKED -	REVISED -
	PLOT DATE = 2/10/2015	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**IL 22 AT OLD BARRINGTON ROAD
STAGE II-A TRAFFIC CONTROL**

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
337	19-N-2	LAKE	81	30
CONTRACT NO. 60P06			ILLINOIS FED. AID PROJECT	

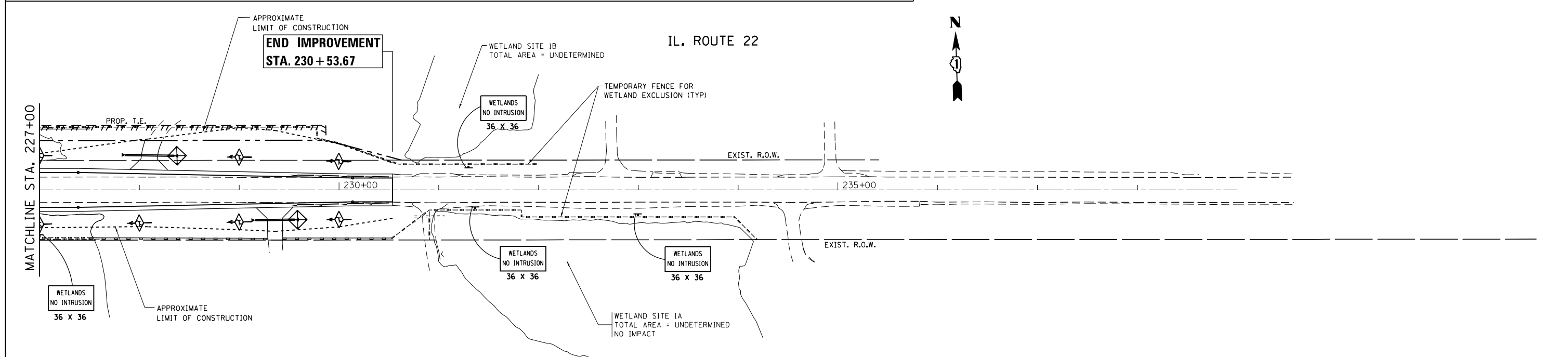


SUGGESTED SEQUENCE OF ACTIVITY:

1. INSTALL TEMPORARY FENCE FOR WETLAND EXCLUSION AND SIGNS "WETLAND NO INTRUSION"
2. PLACE PERIMETER EROSION BARRIER PRIOR TO COMMENCING ANY ACTIVITIES DISTURBING GROUND
3. PLACE TEMPORARY DITCH CHECKS AND ANY INLET AND PIPE PROTECTION
4. CONSTRUCT EMBANKMENT AND DITCHES FIRST TO MINIMIZE FUTURE DISTURBANCES
5. PLACE TEMPORARY EROSION CONTROL MEASURES (E.G., TEMPORARY SEEDING, TURF REINFORCEMENT MATS) AS SOON AS POSSIBLE
6. PLACE PERMANENT STABILIZATION IN AREAS WHERE POSSIBLE
7. PROCEED WITH REMAINDER OF CONSTRUCTION, MAINTAINING EROSION CONTROL MEASURES
8. PLACE PERMANENT STABILIZATION

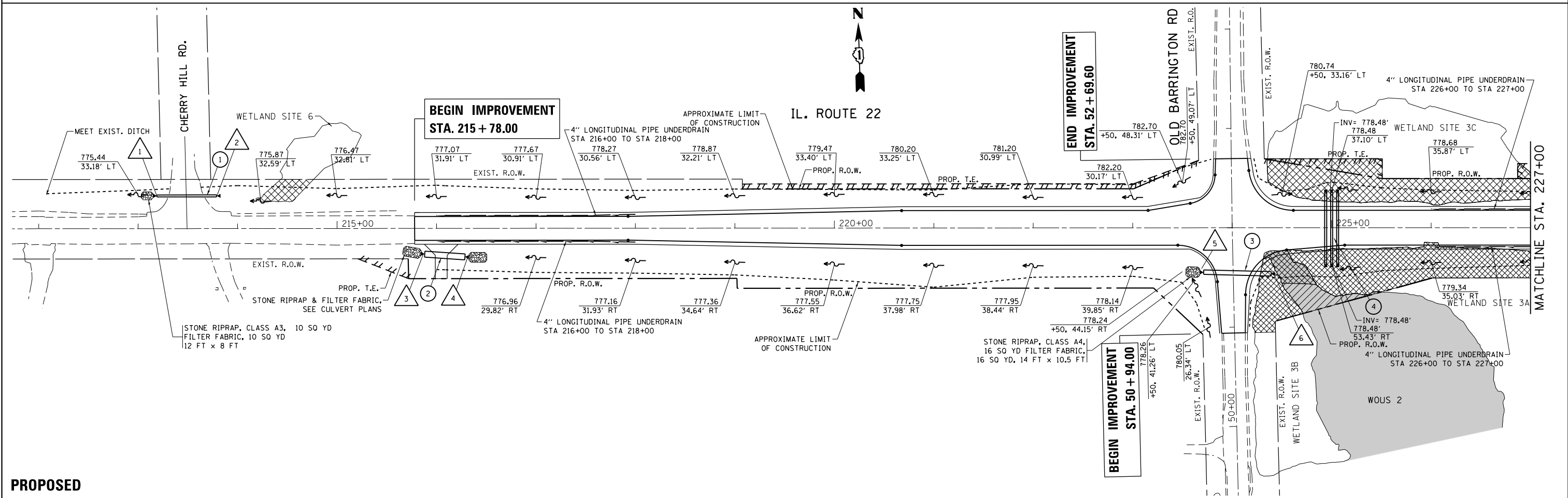
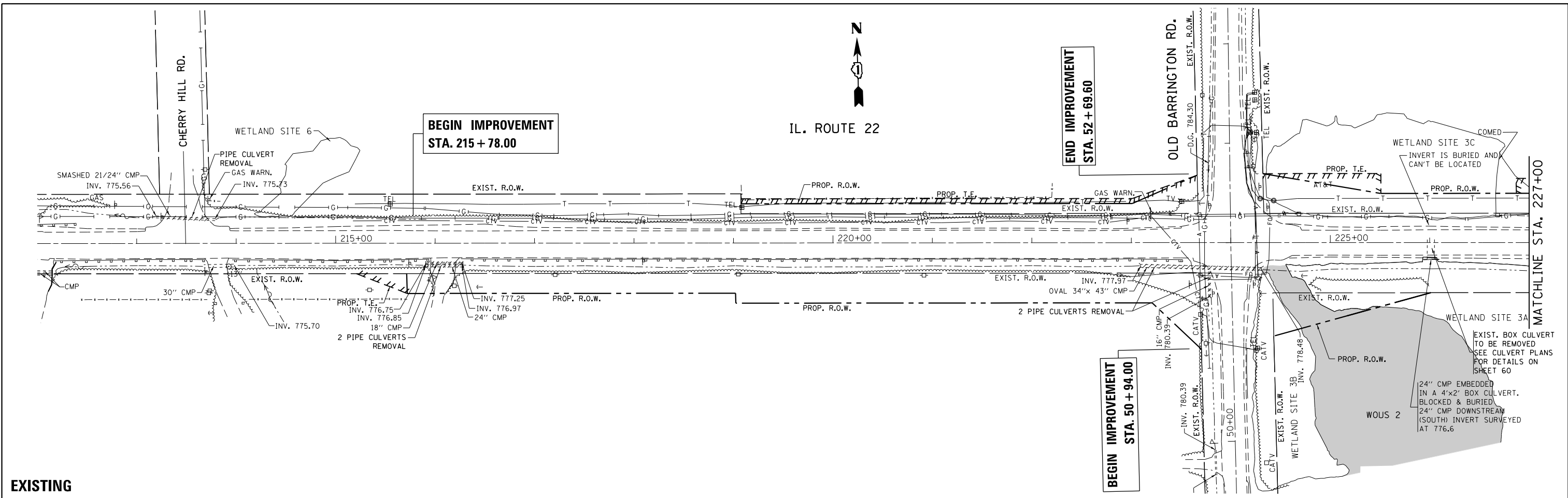
NOTES

1. EXISTING VEGETATION TO BE UTILIZED AS VEGETATIVE BUFFER WHERE POSSIBLE.
2. PERIMETER EROSION BARRIER TO BE PLACED 12 INCHES FROM THE R.O.W. OR EASEMENT, WHERE POSSIBLE OR AS DIRECTED BY THE RESIDENT ENGINEER. THE PERIMETER EROSION BARRIER SHOWN ON THE PLAN IS FOR REFERENCE AND GENERAL GUIDANCE ONLY.
3. TEMPORARY FENCE SHALL BE INSTALLED AND MAINTAINED AT THE LIMITS OF CONSTRUCTION WHERE THE OFFSITE ELEVATIONS ARE HIGHER THAN THE WORK ZONE AND AT THE EDGE OF ALL WETLANDS AND WATERS NOT TO BE IMPACTED.
4. TEMPORARY EROSION CONTROL TO BE PROVIDED AT ALL ERODIBLE BARE EARTH AREAS.
5. NEW VEGETATION TO BE ESTABLISHED ALONG THE RELOCATED DITCHES INCLUDING SIDE SLOPES. REFER TO THE LANDSCAPING PLAN FOR AREAS TO BE SEEDDED.
6. THE EXISTING GROUND COVER SHALL REMAIN AT ANY AREA WHERE THERE IS NO PROPOSED EARTH GRADING.
7. DO NOT USE STRAW (OR HAY) BALES FOR INLET AND PIPE PROTECTION, UNLESS DETERMINED BY THE ENGINEER.



FILE NAME =	USER NAME = velichkovv	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	EROSION AND SEDIMENT CONTROL PLAN IL. ROUTE 22 AT OLD BARRINGTON ROAD	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
ca:\pw\work\p\dot\velichkovv\184132\p\44509-sht-eros.dgn		DRAWN -	REVISED -			337	19-N-2	LAKE	81	31	
Default	PLOT SCALE = 100.0000' / in.	CHECKED -	REVISED -			CONTRACT NO. 60P06					
	PLOT DATE = 2/10/2015	DATE -	REVISED -			ILLINOIS FED. AID PROJECT					

SCALE: 1" = 50' SHEET OF SHEETS STA. 212+00.00 TO STA. 239+00.00



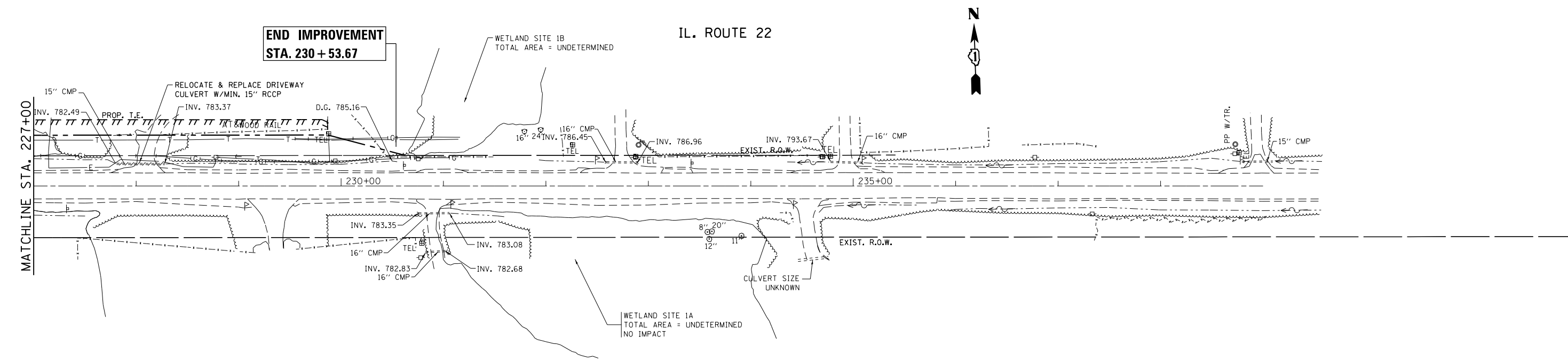
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Default	PLOT SCALE = 100.0000' / in.	CHECKED -	REVISED -
	PLOT DATE = 2/10/2015	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

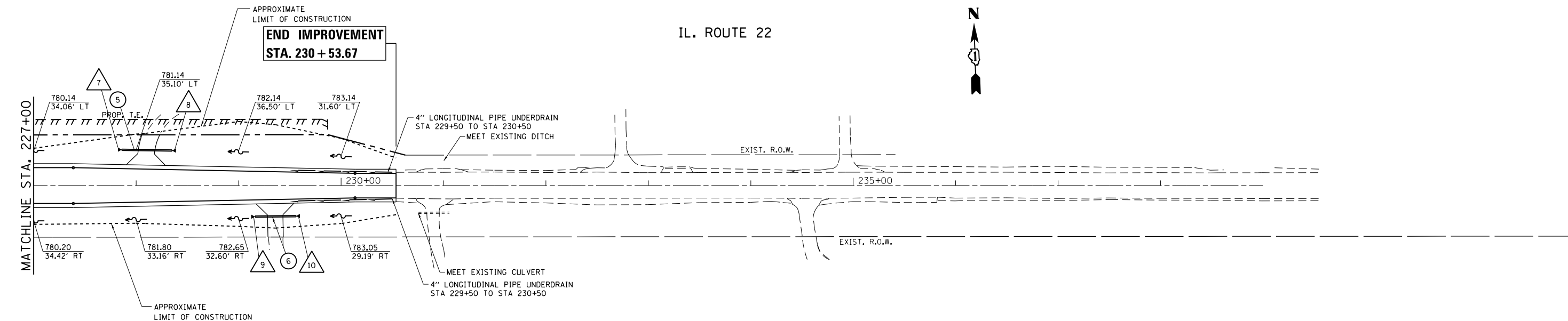
**EXISTING AND PROPOSED DRAINAGE & UTILITIES PLAN
IL. ROUTE 22 AT OLD BARRINGTON ROAD**

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

F.A.P. R.E.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
337	19-N-2	LAKE	81	32
CONTRACT NO. 60P06				
ILLINOIS FED. AID PROJECT				



EXISTING



PROPOSED

FILE NAME =	USER NAME = Velichkovv	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	EXISTING AND PROPOSED DRAINAGE & UTILITIES PLAN IL. ROUTE 22 AT OLD BARRINGTON ROAD	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
es:\pwork\p\dot\velichkovv\0184132\44509-sht-drain.dgn	PLOT SCALE = 100.0000' / in.	DRAWN -	REVISED -			337	19-N-2	LAKE	81	33	
Default	PLOT DATE = 2/10/2015	CHECKED -	REVISED -			CONTRACT NO. 60P06					
		DATE -	REVISED -			ILLINOIS FED. AID PROJECT					

STRUCTURES

- 1 | FLARED END SECTION, 24", 1:4
STA. 213+12.7, 32.9' LT
T.G.
INV. 775.56
T.B.
- 2 | FLARED END SECTION, 24", 1:4
STA. 213+85.0, 32.9' LT
T.G.
INV. 775.74
T.B.
- 3 | BOX CULVERT END SECTION, 5 FT x 2 FT
SEE CULVERT PLANS ON SHEETS 59-63
T.G.
INV. 776.76
T.B.
- 4 | BOX CULVERT END SECTION, 5 FT x 2 FT
SEE CULVERT PLANS ON SHEETS 59-63
T.G.
INV. 776.86
T.B.
- 5 | ELLIPTICAL FLARED END SECTION, 53"x34", 1:4
STA. 223+63.3, 44.5' RT
STA. 51+56.3, 37.6' LT
T.G.
INV. 778.26
TRAVERSABLE PIPE GRATE, 1:4
T.B.
- 6 | ELLIPTICAL FLARED END SECTION, 53"x34", 1:4
STA. 224+47.3, 46.9' RT
STA. 51+52.0, 46.2' RT
T.G.
INV. 778.48
TRAVERSABLE PIPE GRATE, 1:4
T.B.
- 7 | FLARED END SECTION, 15", 1:4
STA. 227+79.9, 35.0' LT
T.G.
INV. 780.94
T.B.
- 8 | FLARED END SECTION, 15", 1:4
STA. 228+41.1, 34.25' LT
T.G.
INV. 781.55
T.B.
- 9 | FLARED END SECTION, 15", 1:4
STA. 229+10.0, 30.4' RT
T.G.
INV. 782.69
T.B.
- 10 | FLARED END SECTION, 15", 1:4
STA. 229+62.2, 29.8' RT
T.G.
INV. 782.90
T.B.

NOTES:

ALL FLARED END SECTIONS TO BE
PRECAST REINFORCED CONCRETE FLARED END SECTIONS

PIPES

- 1 | PIPE CULVERT, CLASS D,
TYPE I, 24" - 60 LF
- 2 | PRECAST CONCRETE BOX
CULVERT, 5' x 2' -
SEE CULVERT PLANS ON SHEETS 59-63
- 3 | PIPE CULVERT, CLASS A,
TYPE I, EQUIVALENT ROUND-SIZE 42" - 68 LF
(ELLIPTICAL PIPE CULVERT, 53" x 34")
- 4 | 3-24" CULVERTS -
SEE CULVERT PLANS ON SHEETS 59-63
- 5 | PIPE CULVERT, CLASS D,
TYPE I, 15' - 49 LF
- 6 | PIPE CULVERT, CLASS D,
TYPE I, 15' - 40 LF

WATERWAY INFORMATION TABLE
(CULVERT UNDER SOUTH LEG OF OLD BARRINGTON ROAD)

DRAINAGE AREA 0.1566 SQ.MI. ROADWAY OVERTOPPING ELEVATION = 782.21 (OLD BARRINGTON ROAD)									
FLOOD	FREQ. YR.	Q C.F.S.	OPENING SQ FT		NAT H.W.E.	HEAD - FT.		HEADWATER EL.	
			EXIT.	PROP.		EXIT.	PROP.	EXIT.	PROP.
	10	28.3	7.97	10.2	780.08	1.12	0.53	781.2	780.61
DESIGN	50	61.1	7.97	10.2	781.83	0.68	0.1	782.51	781.93
BASE	100	90.7	7.97	10.2	782.36	0.38	0.28	782.74	782.64
OVERTOPPING	EX - 39.89 PR - 68.45								
MAX. CALC.	500	202.4	7.97	10.2	783.22	0.17	0.05	783.39	783.27

10 YEAR VELOCITY THROUGH EXISTING CULVERT = 2.25 FT/S
10 YEAR VELOCITY THROUGH PROPOSED CULVERT = 2.60 FT/S

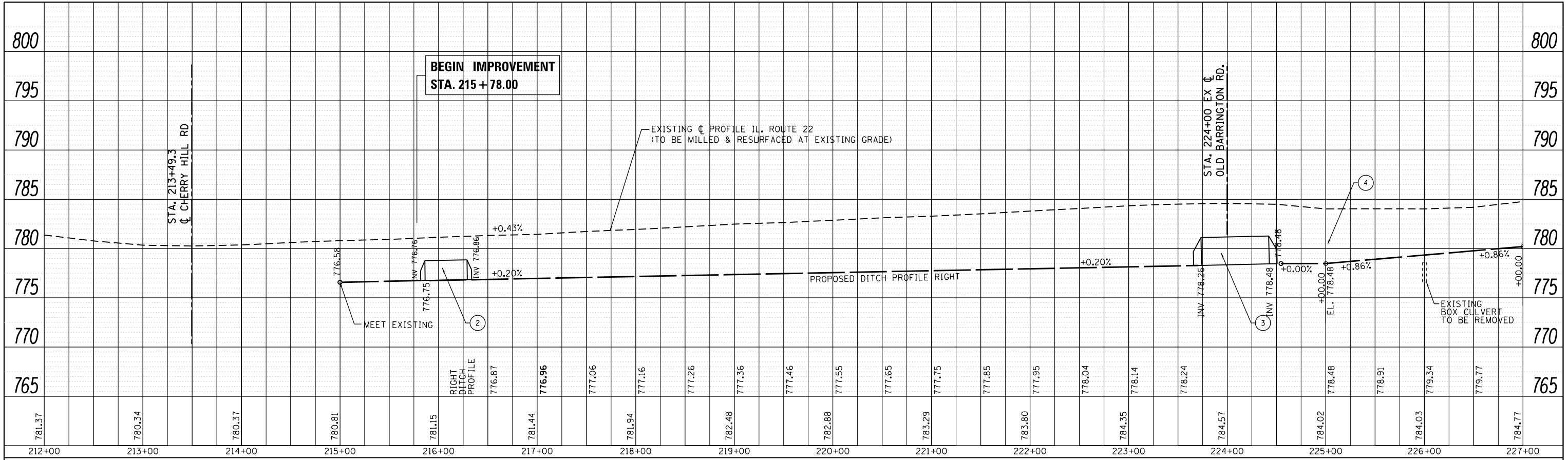
DATUM: NAVD 88

EXISTING STRUCTURE
TYPE: 34"x43" CMP Culvert
LENGTH: 122'
INLET INV: 778.48
OUTLET INV: 777.97

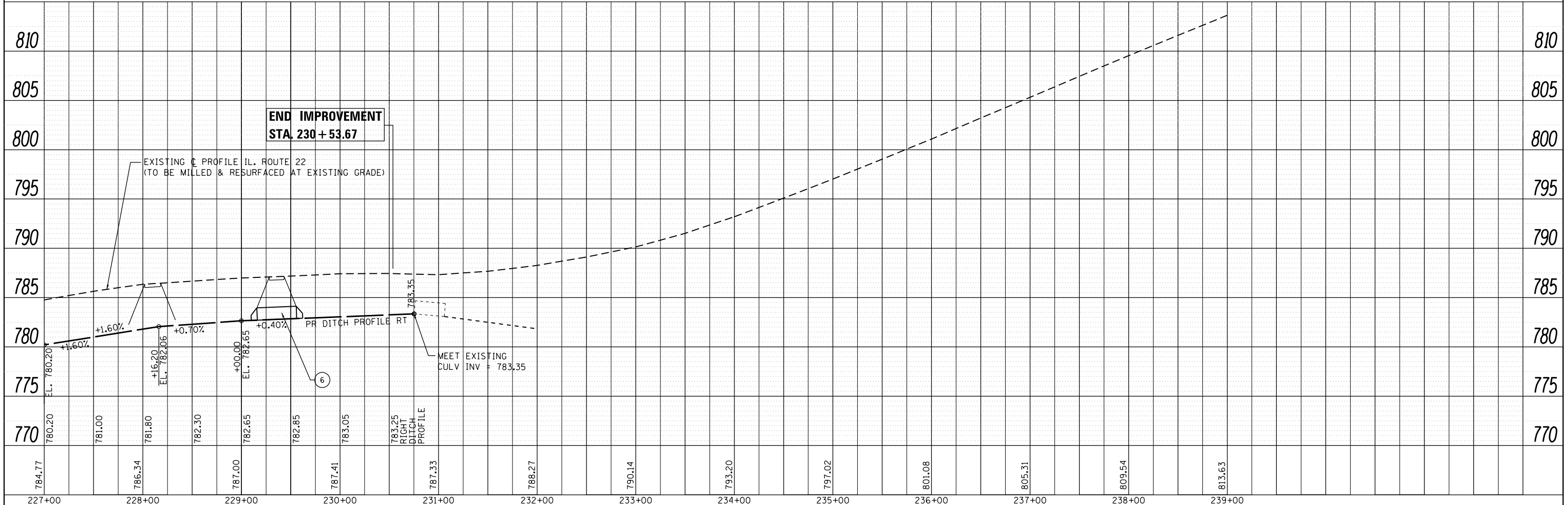
PROPOSED STRUCTURE
TYPE: 34"x53" RCP Culvert
LENGTH: 84'
INLET INV: 778.48
OUTLET INV: 778.28

2-Yr. Peak Flow = 12.40 cfs
2-Yr. Peak Elevation = 779.89
2-Yr. Bypass Opening = 11.02 sq. ft.

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

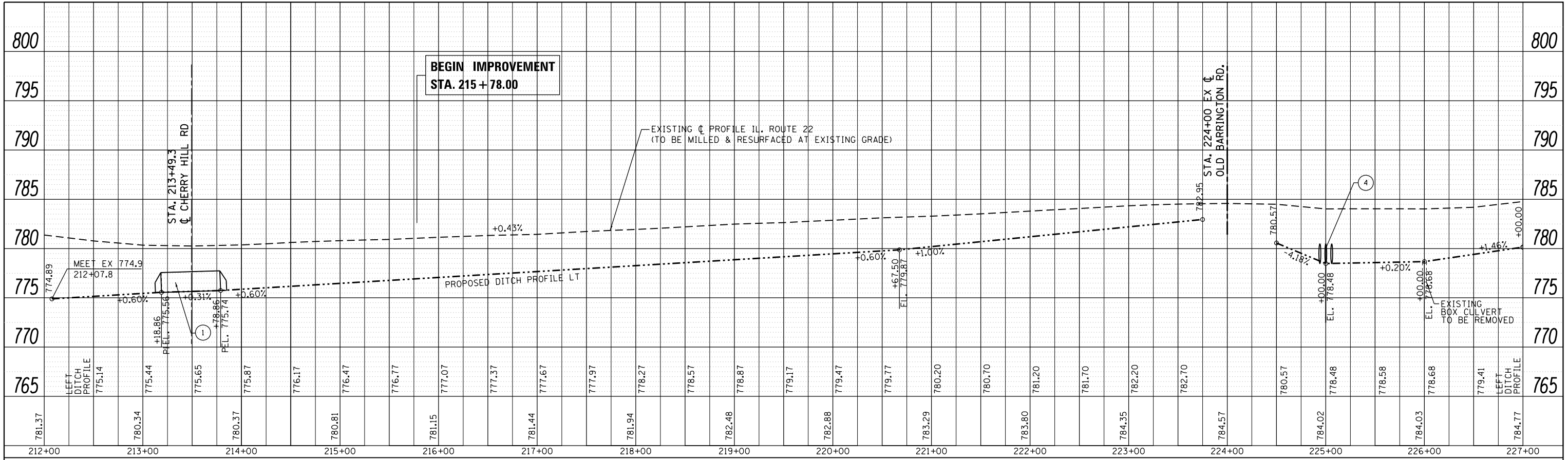


PROFILE	SURVEYED	BY	DATE
	PLOTTED		
	GRADES CHECKED		
	STRUCTURE NOTATIONS CHECKED		
NO.	NOTATION CHPKD		

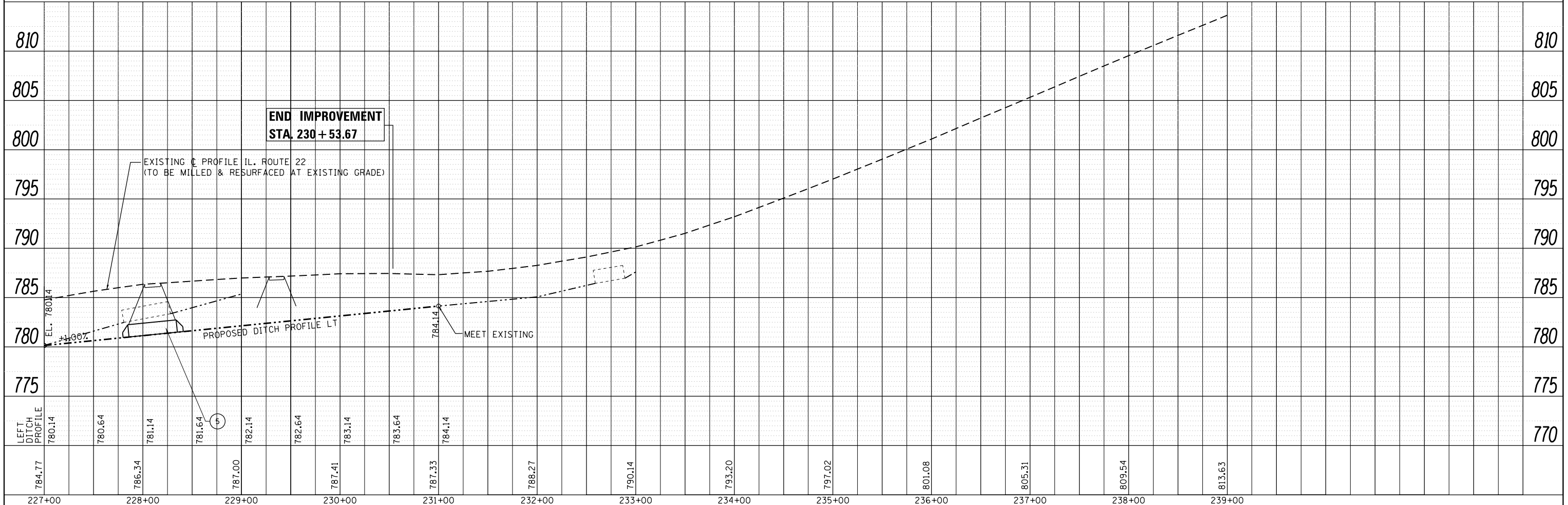


FILE NAME =	USER NAME = velichkovvv	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	EXISTING AND PROPOSED DRAINAGE PROFILE - RIGHT SIDE DITCH IL. ROUTE 22 AT OLD BARRINGTON ROAD	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
c:\pwork\pwork\velichkovvv\d0184132\p14509-sht-drain.dgn	DRAWN -	REVISED -	337			19-N-2	LAKE	81	35	
PLOT SCALE = 100.0000' / in.	CHECKED -	REVISED -	CONTRACT NO. 60P06							
Default	DATE -	REVISED -	ILLINOIS FED. AID PROJECT							

DATE _____ BY _____
 SURVEYED _____
 PLOTTED _____
 ALIGNMENT CHECKED _____
 NOTE BOOK NO. _____
 FILE NAME _____



DATE _____ BY _____
 SURVEYED _____
 PLOTTED _____
 GRADES CHECKED _____
 NOTE BOOK NO. _____
 STRUCTURE NOTATIONS CHECKED _____



FILE NAME =	USER NAME = velichkovvv	DESIGNED -	REVISED -
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Default	PLOT SCALE = 100.0000' / in.	CHECKED -	REVISED -
	PLOT DATE = 2/10/2015	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

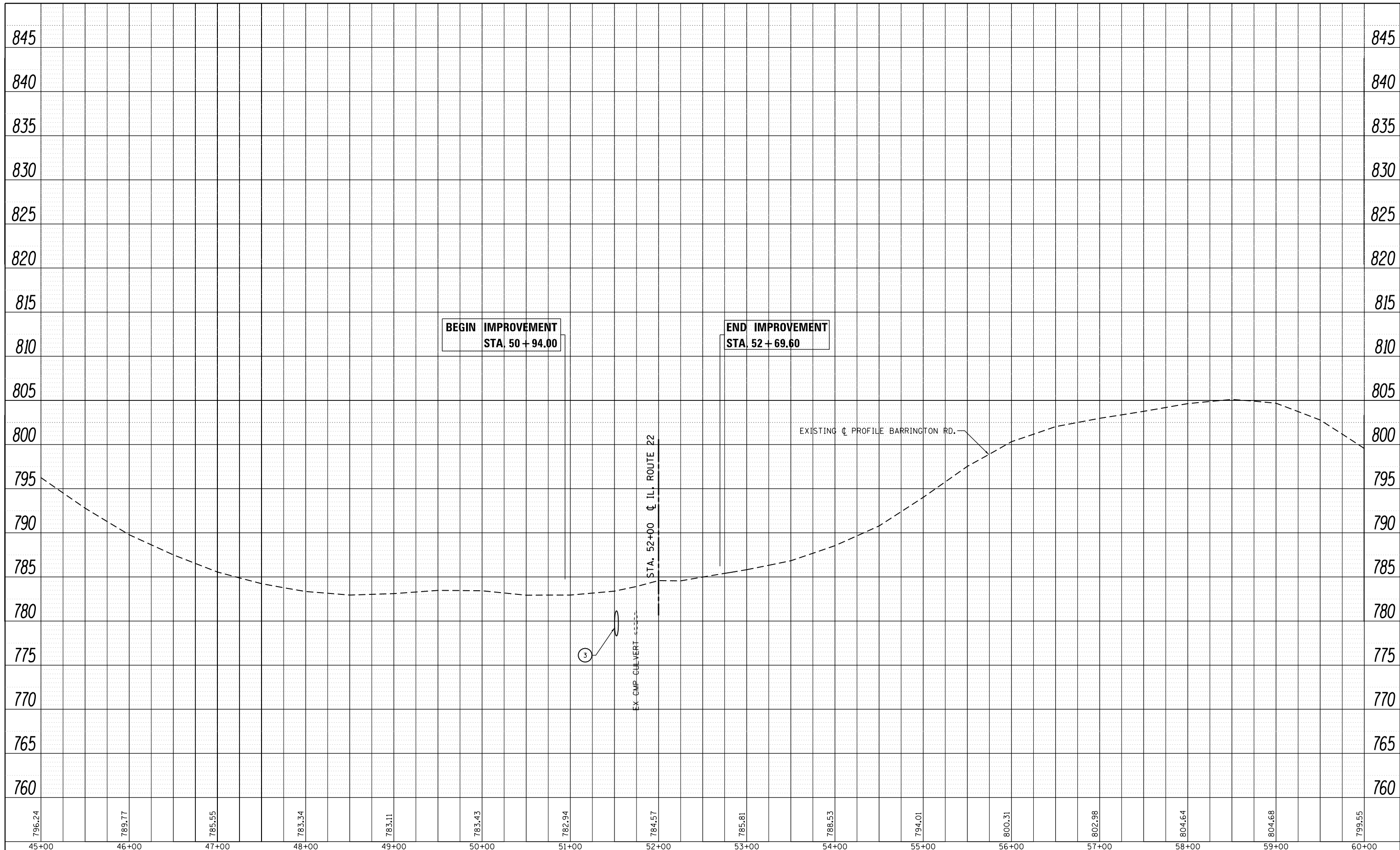
**EXISTING AND PROPOSED DRAINAGE PROFILE - LEFT SIDE DITCH
IL. ROUTE 22 AT OLD BARRINGTON ROAD**

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
337	19-N-2	LAKE	81	36
CONTRACT NO. 60P06				
ILLINOIS FED. AID PROJECT				

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

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



FILE NAME =	USER NAME = velichkovv	DESIGNED -	REVISED -
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Default	PLOT SCALE = 100.0000' / in.	CHECKED -	REVISED -
	PLOT DATE = 2/10/2015	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

EXISTING AND PROPOSED DRAINAGE PROFILE			
IL. ROUTE 22 AT OLD BARRINGTON ROAD			
SCALE: 1" = 50'	SHEET	OF	SHEETS
STA.	TO	STA.	TO

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
337	19-N-2	LAKE	81	37
CONTRACT NO. 60P06				
ILLINOIS FED. AID PROJECT				

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

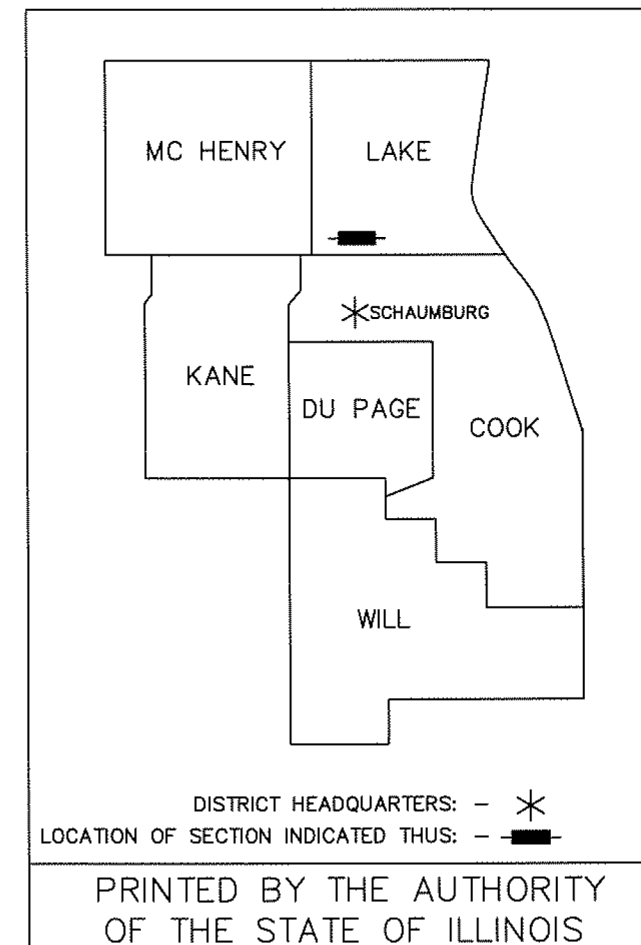
* F.A.P. 336 (ILLINOIS ROUTE 22)

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*		LAKE	6	1
F.H.W.A. REQ.	ILLINOIS PROJECT			

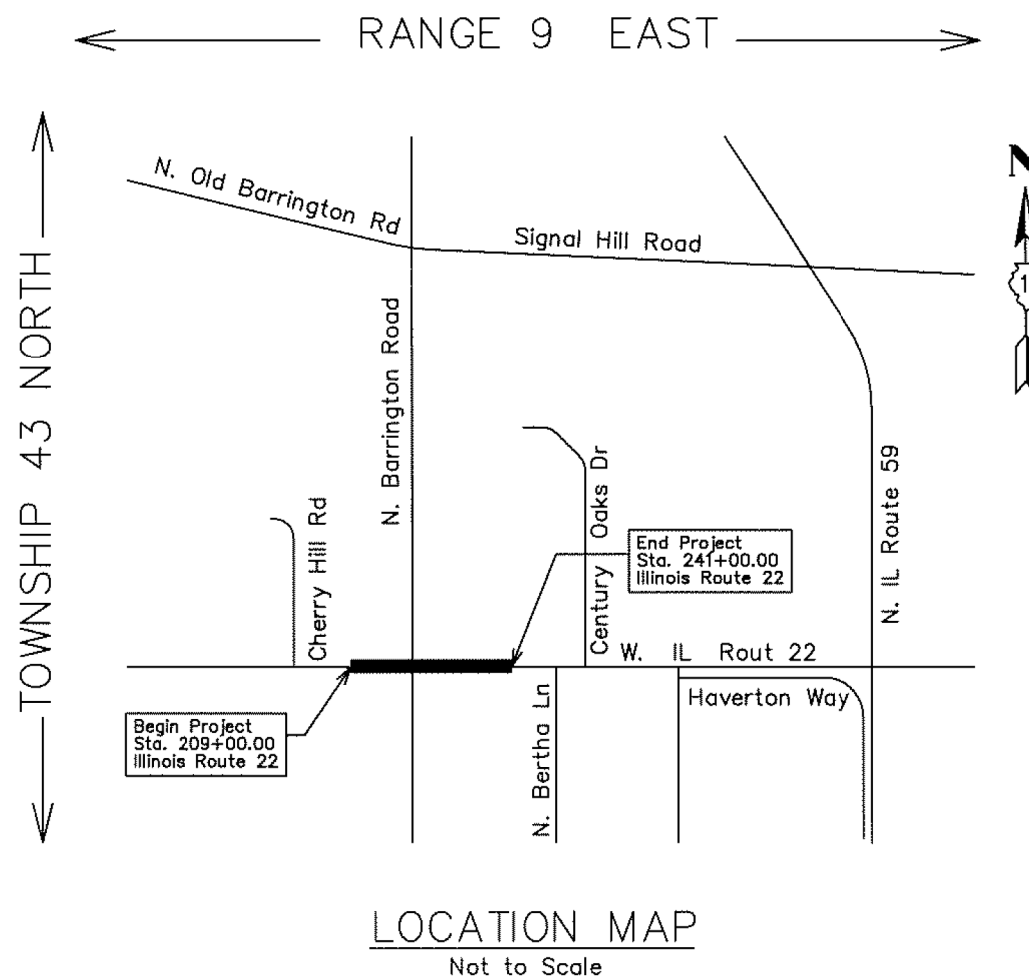
R-91-003-12

PLAT OF HIGHWAYS

ROUTE: F.A.P. 337 (ILLINOIS ROUTE 22)
SECTION:
COUNTY: LAKE
LIMITS: CHERRY HILL ROAD TO
NORTH BERTHA LANE
JOB NO.: R-91-003-12



PARCEL NUMBER	OWNER	SHEET NUMBER	PROPERTY ACQUIRED BY
1KG0001TE	Rosee Mamme and Marie DiDomenico, as Co-Trustees of the Rosee Mamme Living Trust dated 10/12/1989, as to an undivided 50% interest, and Marie DiDomenico, as Trustee of the Marie DiDomenico Revocable Trust dated 4/13/1999, as to an undivided 50% interest 13-23-300-005	2	_____
1KG0002	Chicago Title Land Trust Company, as Trustee under Trust Agreement dated 2/14/2012 and known as Trust Number 8002358873 13-23-300-006	2	_____
1KG0003	Sotirios C. Constantopoulos 13-23-300-007	4	_____
1KG0004	Village of North Barrington 13-23-100-026	3	_____
1KG0004TE		3	_____
1KG0005	Village of North Barrington, a municipal corporation 13-23-200-008	5	_____
1KG0005TE		5	_____
1KG0006	Maxim Kline, Lana Kline and Alexander Kotelonets, as joint tenants 13-23-401-001	4	_____
1KG0007	Edward A. Bock and Norma L. Bock, husband and wife, as joint tenants, as to a 50% interest, Phillip A. Bock and Laura C. Bock, husband and wife, in joint tenancy, as to a 25% interest, and Matthew E. Bock, an unmarried man, as to an undivided 25% interest 13-23-200-009	5	_____
1KG0007TE	Edward A. Bock and Norma L. Bock, husband and wife, as joint tenants, as to a 50% interest, Phillip A. Bock and Laura C. Bock, husband and wife, in joint tenancy, as to a 25% interest, and Matthew E. Bock, an unmarried man, as to an undivided 25% interest 13-23-200-009	5	_____
1KG0008	Chicago Title Land Trust Company, as successor to Capital Bank and Trust of Chicago, as Trustee under Trust Agreement dated 4/25/1985, and known as Trust Number 861 13-23-200-010	5	_____



PROJECT LENGTH = 3,200 FT. = 0.606 MILE



ASM CONSULTANTS, INC.
PO BOX 7
PLANO, IL 60545
(630) 273-2500
ASM PROJECT NO. 777-001

Sheet 1 of 6

DOT USE ONLY

PARCEL NUMBER	TOTAL HOLDINGS ACRES	PART TAKEN ACRES	AREA IN EXISTING R.C.W. ACRES	REMAINDER AREA ACRES	EASEMENT ACRES	AREA SQUARE FEET	EASEMENT PURPOSE	PARCEL INDEX NUMBER
1KG0001TE	5.028	N/A	N/A	N/A	0.012	506	GRADING	13-23-300-005
1KG0002	5.024	0.372	0.220	4.652	N/A	N/A	N/A	13-23-300-006

EXISTING R.O.W. RECORDED INFORMATION		
Parcel	Document No.	Date Recorded
1KG0001TE	263722	August 24, 1925
1KG0002	263722	August 24, 1925

COORDINATE TABLE				
I.L.E.83 (2011) (GRID)				
NO.	STATION	OFFSET	NORTH	EAST
1	215+19.90	30.00' Rt.	2,012,094.635	1,032,989.831
2	215+69.78	0.74' Rt.	2,012,122.441	1,033,040.529
3	215+70.48	30.00' Rt.	2,012,093.317	1,033,040.956
4	215+70.96	50.00' Rt.	2,012,073.167	1,033,040.290
5	218+99.88	1.14' Rt.	2,012,112.493	1,033,370.466
6	219+01.06	50.00' Rt.	2,012,063.618	1,033,370.229

LEGEND

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

SECTION / QUARTER SECTION LINE
 PLATTED LOT LINES
 PL PROPERTY (DEED) LINE
 APL 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
 --- 129.32' MEASURED DIMENSION
 --- 129.32' (COMP) COMPUTED DIMENSION
 --- 129.32' (129.32') RECORDED DIMENSION
 [Hatched Box] EXISTING BUILDING

BEARINGS 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 "GROUND" NOT "GRID". TO OBTAIN GRID DISTANCES, MULTIPLY GROUND DISTANCES SHOWN BY THE COMBINATION FACTOR OF 0.99994381. ALL DIMENSIONS ARE MEASURED UNLESS OTHERWISE SPECIFIED.

○ 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 TIE FOUND IRON STAKE. IDENTIFIED BY COLORED PLASTIC CAP BEARING SURVEYORS REGISTRATION NUMBER.
 ● BT2
 ● BT3
 ■ STAKING OF PROPOSED RIGHT OF WAY. SET DIVISION OF HIGHWAYS SURVEY MARKER TO MONUMENT THE POSITION SHOWN, IDENTIFIED BY INSCRIPTION DATA AND SURVEYORS REGISTRATION NUMBER.
 ■ M STAKING OF PROPOSED RIGHT OF WAY IN CULTIVATED AREAS. BURIED 5/8 INCH METAL ROD 20 INCHES BELOW GROUND TO MARK FUTURE SURVEY MARKER POSITION IDENTIFIED BY COLORED PLASTIC CAP BEARING SURVEYORS REGISTRATION NUMBER.
 ● PERMANENT SURVEY MARKER, I.D.O.T. STANDARD 2135 (TO BE SET BY OTHERS)
 □ RIGHT OF WAY STAKING PROPOSED TO BE SET

STATE OF ILLINOIS)
) SS
 COUNTY OF KENDALL)

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 23, TOWNSHIP 43 NORTH, RANGE 9 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.

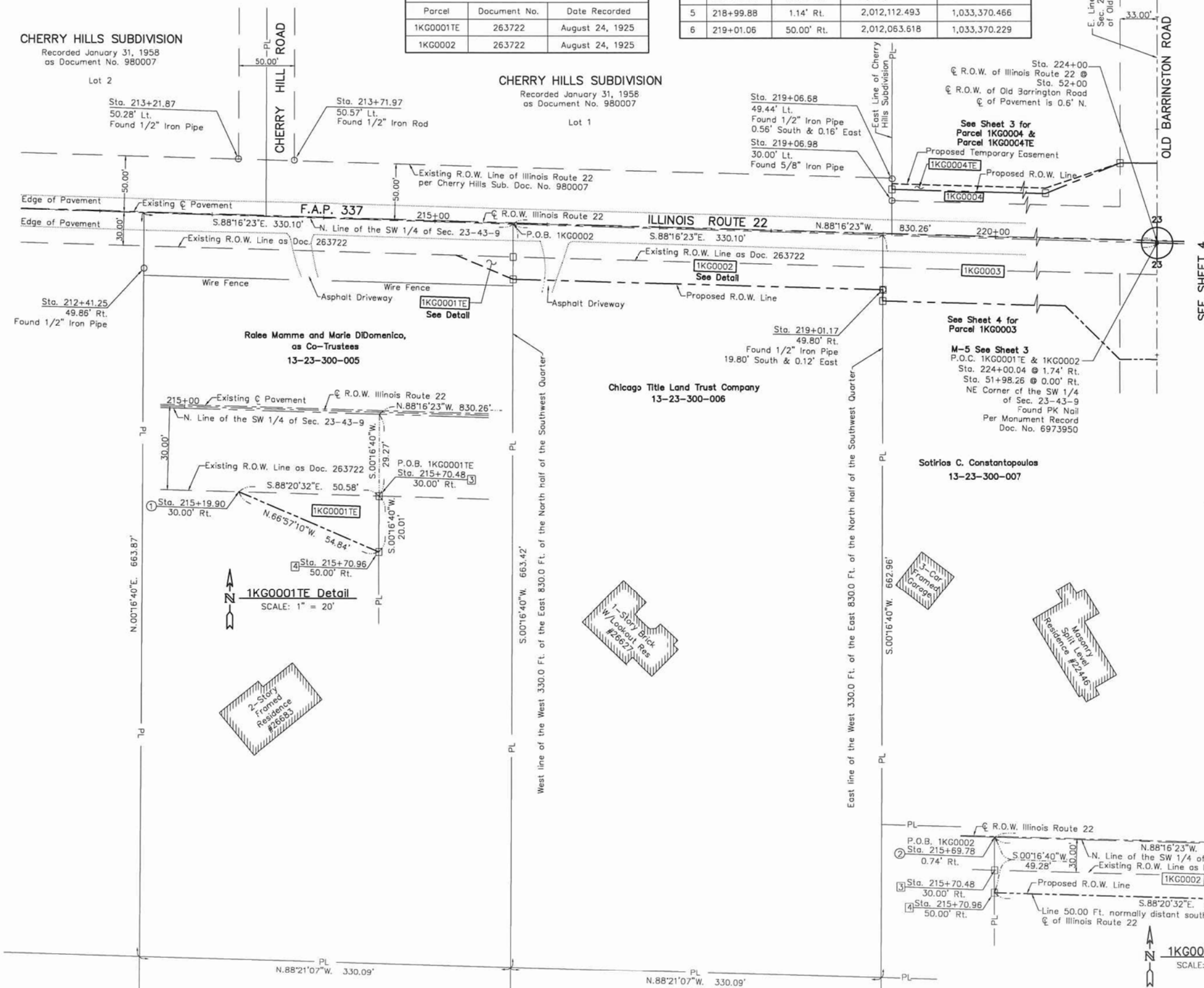
DATED AT PLANO, ILLINOIS THIS 16th DAY OF DECEMBER, 2014, AS

CHARLES S. MARSHALL
 035-003377
 PROFESSIONAL LAND SURVEYOR
 STATE OF ILLINOIS
 PLANO, IL
 LICENSE EXPIRATION DATE: 11/30/2016.

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

CHERRY HILLS SUBDIVISION
 Recorded January 31, 1958
 as Document No. 980007

CHERRY HILLS SUBDIVISION
 Recorded January 31, 1958
 as Document No. 980007



ADVANCED SURVEYING & MAPPING
 ASM CONSULTANTS, INC.
 PO BOX 7
 PLANO, IL 60545
 (630) 273-2500
 ASM PROJECT NO. 777-001

PLAT OF HIGHWAYS
 STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION
 F.A.P. 337 (ILLINOIS ROUTE 22)

SECTION: LAKE COUNTY
 PROJECT: JOB NO. R-91-003-12
 STATION 209+00 TO STATION 241+00
 SCALE: 1" = 50' SHEET 2 OF 6

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

PART OF THE NORTH HALF OF SECTION 23, TWP. 43 N., R. 9 E. OF THE 3RD. P.M., IN LAKE COUNTY, ILLINOIS.

PARCEL NUMBER	TOTAL HOLDINGS ACRES	PART TAKEN ACRES	AREA IN EXISTING R.O.W. ACRES	REMAINDER AREA ACRES	EASEMENT AREA ACRES	SQUARE FEET	EASEMENT PURPOSE	PARCEL INDEX NUMBER
1KG0004 1KG0004TE	3.180	0.512	0.385	2.668	0.049	N/A	N/A	13-23-100-026

COORDINATE TABLE				
I.L.E.83 (2011) (GRID)				
NO.	STATION	OFFSET	NORTH	EAST
8	219+06.62	45.00' Lt.	2,012,158.422	1,033,378.581
9	219+06.74	40.00' Lt.	2,012,153.421	1,033,378.557
10	219+07.73	1.15' Rt.	2,012,112.256	1,033,378.313
11	223+00.00	40.00' Lt.	2,012,142.044	1,033,771.649
12	223+00.00	45.00' Lt.	2,012,147.041	1,033,771.794
14	223+65.34	68.41' Lt.	2,012,168.541	1,033,837.716
16	223+98.33	69.21' Lt.	2,012,168.381	1,033,870.714

EXISTING R.O.W. RECORDED INFORMATION		
Parcel	Document No.	Date Recorded
1KG0004	263722	August 24, 1925

LEGEND

- SECTION / QUARTER SECTION LINE
- PL PLATTED LOT LINES
- PROPERTY (DEED) LINE
- APL 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

BEARINGS 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 "GROUND" NOT "GRID". TO OBTAIN GRID DISTANCES, MULTIPLY GROUND DISTANCES SHOWN BY THE COMBINATION FACTOR OF 0.99994381. ALL DIMENSIONS ARE MEASURED UNLESS OTHERWISE SPECIFIED.

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

STATE OF ILLINOIS)
COUNTY OF KENDALL) SS

THIS IS TO CERTIFY THAT WE, ASM CONSULTANTS, INC., AN ILLINOIS PROFESSIONAL DESIGN FIRM LAND SURVEYING CORPORATION, NUMBER 184-6014, HAVE SURVEYED THE PLAT OF HIGHWAYS SHOWN HEREON IN SECTION 23, TOWNSHIP 43 NORTH, RANGE 9 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 6TH DAY OF DECEMBER, 2014.

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



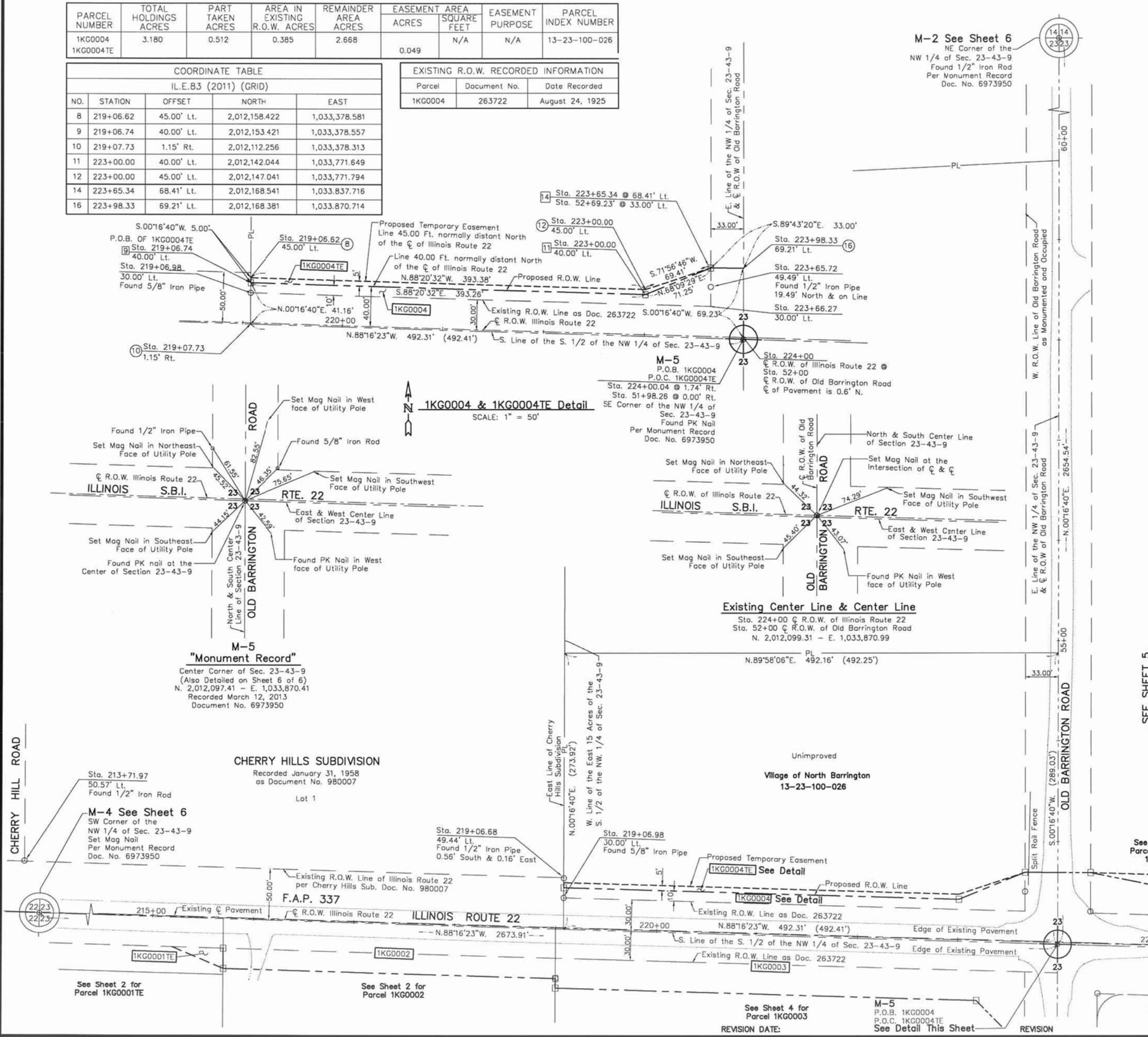
THIS PROFESSIONAL SERVICE CONFORMS TO THE CURRENT ILLINOIS MINIMUM STANDARDS FOR A BOUNDARY SURVEY.

ASMO
ASM CONSULTANTS, INC.
PO BOX 7
PLANO, IL 60545
(630) 273-2500
ASM PROJECT NO. 777-001

PLAT OF HIGHWAYS
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
F.A.P. 337 (ILLINOIS ROUTE 22)

SECTION: LAKE COUNTY
PROJECT: JOB NO. R-91-003-12
STATION: 209+00 TO STATION 241+00
SCALE: 1" = 50' SHEET 3 OF 6

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



SEE SHEET 5

PART OF THE NORTH HALF OF SECTION 23, TWP. 43 N., R. 9 E. OF THE 3RD. P.M., IN LAKE COUNTY, ILLINOIS.

PARCEL NUMBER	TOTAL HOLDINGS ACRES	PART TAKEN ACRES	AREA IN EXISTING R.O.W. ACRES	REMAINDER AREA ACRES	EASEMENT ACRES	AREA SQUARE FEET	EASEMENT PURPOSE	PARCEL INDEX NUMBER
1KG0003	6.045	0.734	0.386	5.311	N/A	N/A	N/A	13-23-300-007
1KG0006	4.499	0.076	N/A	4.423	N/A	N/A	N/A	13-23-401-001

EXISTING R.O.W. RECORDED INFORMATION		
Parcel	Document No.	Date Recorded
1KG0003	263722	August 24, 1925
1KG0006	263722	August 24, 1925

COORDINATE TABLE				
I.L.E.83 (2011) (GRID)				
NO.	STATION	OFFSET	NORTH	EAST
5	218+99.88	1.14' Rt.	2,012,112.493	1,033,370.466
7	219+01.30	60.00' Rt.	2,012,053.615	1,033,370.180
13	223+20.00	60.00' Rt.	2,012,041.503	1,033,788.680
15	223+69.56	106.74' Rt.	2,011,993.347	1,033,836.866
17	224+02.55	105.95' Rt.	2,011,993.187	1,033,869.864
19	224+41.83	75.60' Rt.	2,012,022.384	1,033,910.004
20	224+42.26	93.45' Rt.	2,012,004.533	1,033,909.917
21	224+66.83	50.00' Rt.	2,012,047.251	1,033,935.725
24	226+00.00	50.00' Rt.	2,012,043.398	1,034,068.836

LEGEND

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

BEARINGS 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 "GROUND" NOT "GRID". TO OBTAIN GRID DISTANCES, MULTIPLY GROUND DISTANCES SHOWN BY THE COMBINATION FACTOR OF 0.99994381. ALL DIMENSIONS ARE MEASURED UNLESS OTHERWISE SPECIFIED.

○ IRON PIPE OR ROD FOUND
 + CUT CROSS FOUND OR SET
 ● T1
 ● T2
 ● BT1
 ● BT2
 ● BT3
 ■ STAKING OF PROPOSED RIGHT OF WAY.
 ■ M STAKING OF PROPOSED RIGHT OF WAY IN CULTIVATED AREAS.
 ● PERMANENT SURVEY MARKER, I.D.O.T. STANDARD 2135 (TO BE SET BY OTHERS)
 □ RIGHT OF WAY STAKING PROPOSED TO BE SET

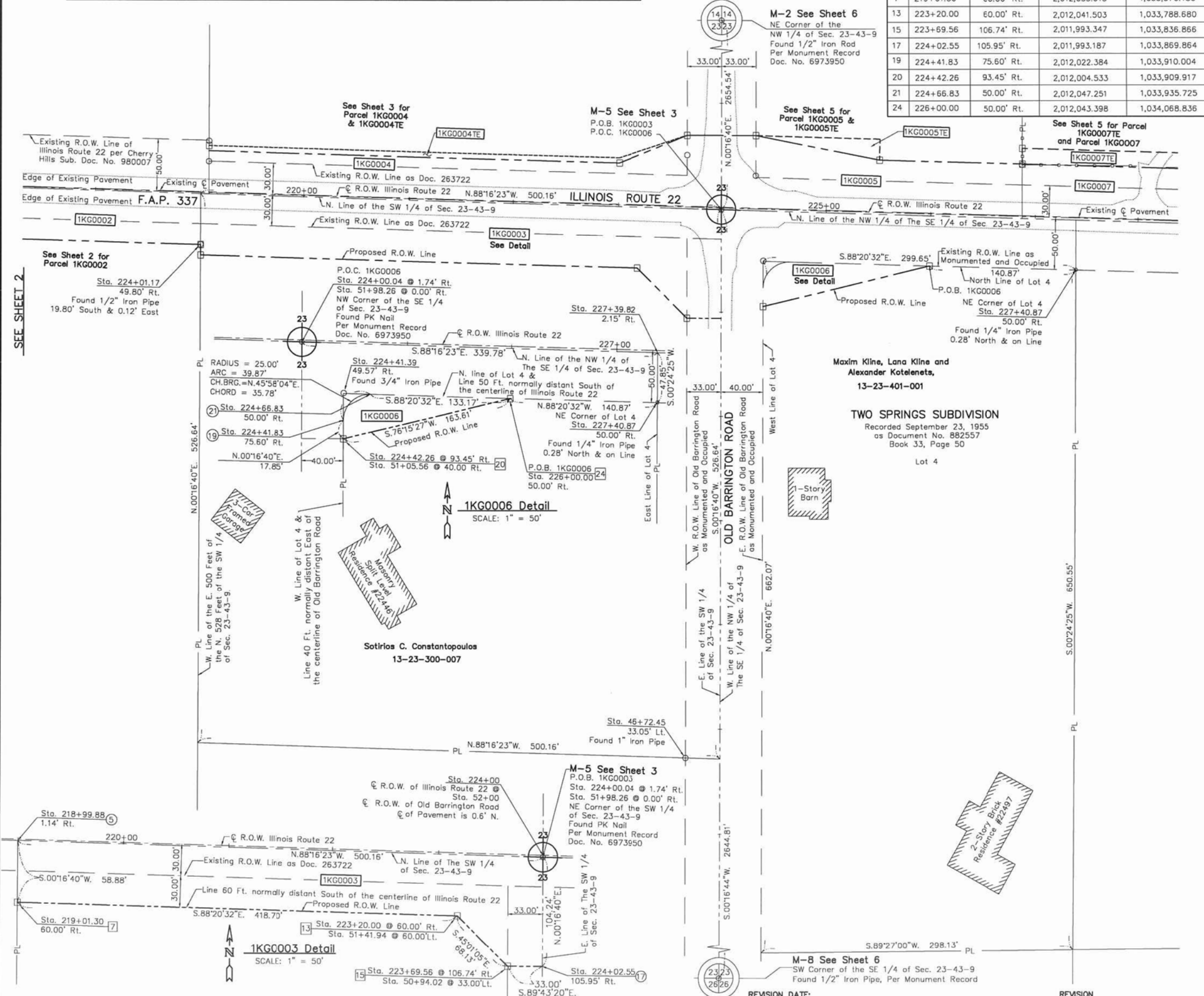
STATE OF ILLINOIS)
) SS
 COUNTY OF KENDALL)

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 23, TOWNSHIP 43 NORTH, RANGE 9 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 16th DAY OF DECEMBER, 2014, A.D.

CHARLES S. MARSHALL
 035-003377
 PROFESSIONAL
 LAND
 SURVEYOR
 STATE OF
 ILLINOIS
 PLANO, IL

ADVANCED SURVEYING & MAPPING
 ASM CONSULTANTS, INC.
 PO BOX 7
 PLANO, IL 60545
 (630) 273-2500
 ASM PROJECT NO. 777-001



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

BEARINGS 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 "GROUND" NOT "GRID". TO OBTAIN GRID DISTANCES, MULTIPLY GROUND DISTANCES SHOWN BY THE COMBINATION FACTOR OF 0.99994381. ALL DIMENSIONS ARE MEASURED UNLESS OTHERWISE SPECIFIED.

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

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

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

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

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

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

STATE OF ILLINOIS)
) SS
 COUNTY OF KENDALL)

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DATED AT PLANO, ILLINOIS THIS 16th DAY OF DECEMBER, 2014.

CHARLES S. MARSHALL
 035-003377
 PROFESSIONAL
 LAND
 SURVEYOR
 STATE OF
 ILLINOIS
 PLANO, IL

ADVANCED SURVEYING & MAPPING
 ASM CONSULTANTS, INC.
 PO BOX 7
 PLANO, IL 60545
 (630) 273-2500
 ASM PROJECT NO. 777-001

PLAT OF HIGHWAYS
 STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION
 F.A.P. 337 (ILLINOIS ROUTE 22)

SECTION: LAKE COUNTY
 PROJECT: JOB NO. R-91-003-12
 STATION: 209+00 TO STATION 241+00
 SCALE: 1" = 50' SHEET 5 OF 6

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

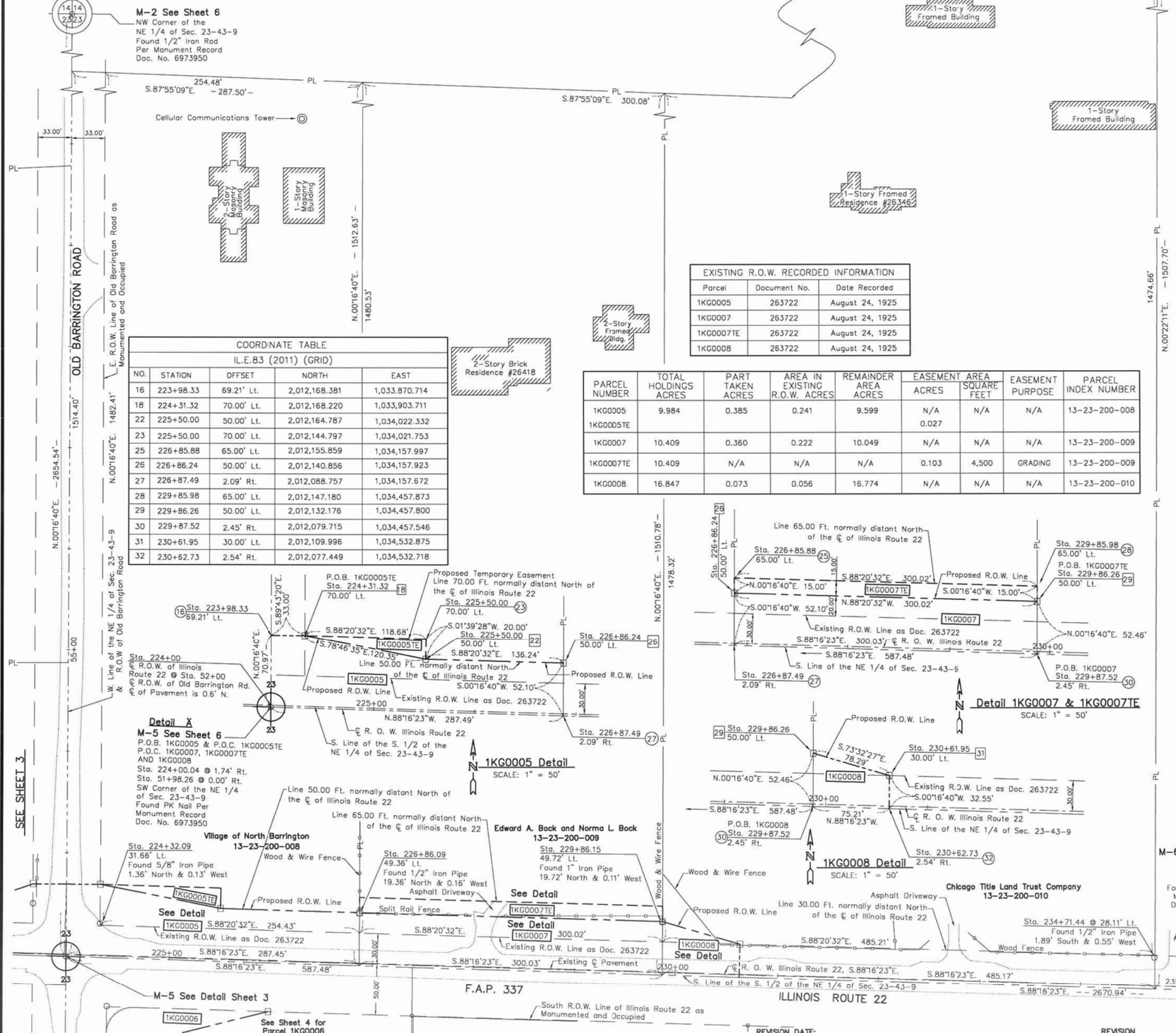
COORDINATE TABLE
 I.L.E.83 (2011) (GRID)

NO.	STATION	OFFSET	NORTH	EAST
16	223+98.33	69.21' Lt.	2,012,168.381	1,033,870.714
18	224+31.32	70.00' Lt.	2,012,168.220	1,033,903.711
22	225+50.00	50.00' Lt.	2,012,164.787	1,034,022.332
23	225+50.00	70.00' Lt.	2,012,144.797	1,034,021.753
25	226+85.88	65.00' Lt.	2,012,155.859	1,034,157.997
26	226+86.24	50.00' Lt.	2,012,140.856	1,034,157.923
27	226+87.49	2.09' Rt.	2,012,088.757	1,034,157.672
28	229+85.98	65.00' Lt.	2,012,147.180	1,034,457.873
29	229+86.26	50.00' Lt.	2,012,132.176	1,034,457.800
30	229+87.52	2.45' Rt.	2,012,079.715	1,034,457.546
31	230+61.95	30.00' Lt.	2,012,109.996	1,034,532.875
32	230+62.73	2.54' Rt.	2,012,077.449	1,034,532.718

EXISTING R.O.W. RECORDED INFORMATION

Parcel	Document No.	Date Recorded
1KG0005	263722	August 24, 1925
1KG0007	263722	August 24, 1925
1KG0007TE	263722	August 24, 1925
1KG0008	263722	August 24, 1925

PARCEL NUMBER	TOTAL HOLDINGS ACRES	PART TAKEN ACRES	AREA IN EXISTING R.O.W. ACRES	REMAINDER AREA ACRES	EASEMENT ACRES	AREA SQUARE FEET	EASEMENT PURPOSE	PARCEL INDEX NUMBER
1KG0005	9.984	0.385	0.241	9.599	N/A	N/A	N/A	13-23-200-008
1KG0005TE					0.027			
1KG0007	10.409	0.360	0.222	10.049	N/A	N/A	N/A	13-23-200-009
1KG0007TE	10.409	N/A	N/A	N/A	0.103	4,500	GRADING	13-23-200-009
1KG0008	16.847	0.073	0.056	16.774	N/A	N/A	N/A	13-23-200-010



Detail A
 M-5 See Sheet 6
 P.O.B. 1KG0005 & P.O.C. 1KG0005TE AND 1KG0008
 Sta. 224+00.04 @ 1.74' Rt.
 Sta. 51+98.26 @ 0.00' Rt.
 SW Corner of the NE 1/4 of Sec. 23-43-9
 Found PK Nail Per Monument Record
 Doc. No. 6973950

1KG0005 Detail
 SCALE: 1" = 50'

Detail 1KG0007 & 1KG0007TE
 SCALE: 1" = 50'

1KG0008 Detail
 SCALE: 1" = 50'

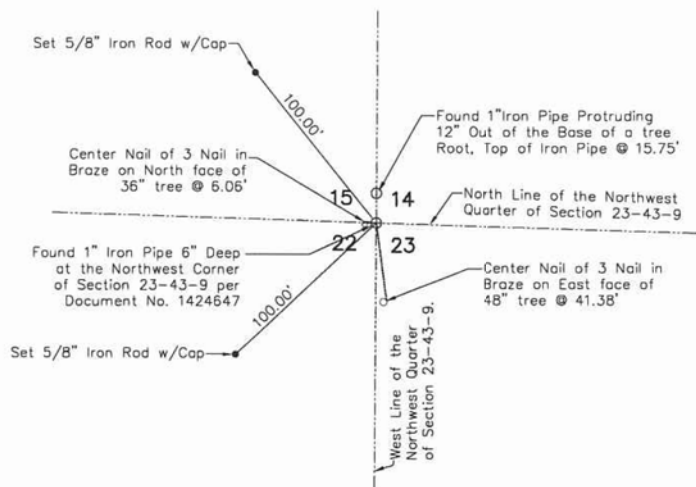
M-6 See Sheet 6
 SE Corner of the NE 1/4 of Sec. 23-43-9
 Found "PK" Nail Per Monument Record
 Doc. No. 6973950

REVISION DATE:

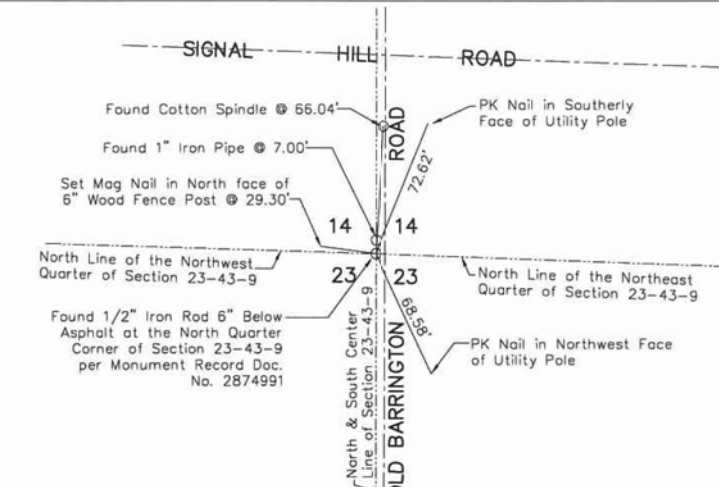
REVISION

MADE BY

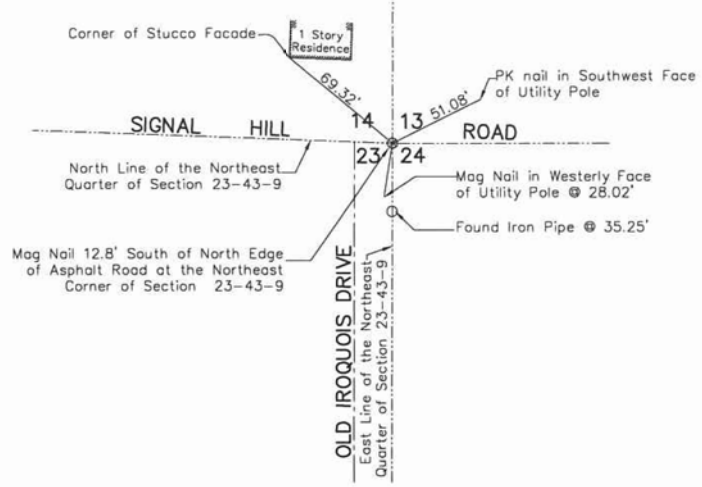
PART OF THE NORTH HALF OF SECTION 23, TWP. 43 N., R. 9 E. OF THE 3RD. P.M., IN LAKE COUNTY, ILLINOIS.



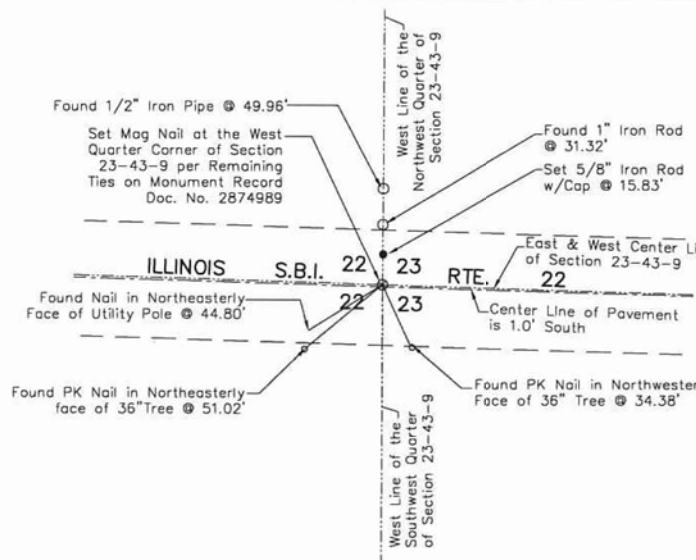
M-1
"Monument Record"
Northwest Corner of Sec. 23-43-9
N. 2,014,831.95 - E. 1,031,216.41
Recorded March 12, 2013
Document No. 6973950



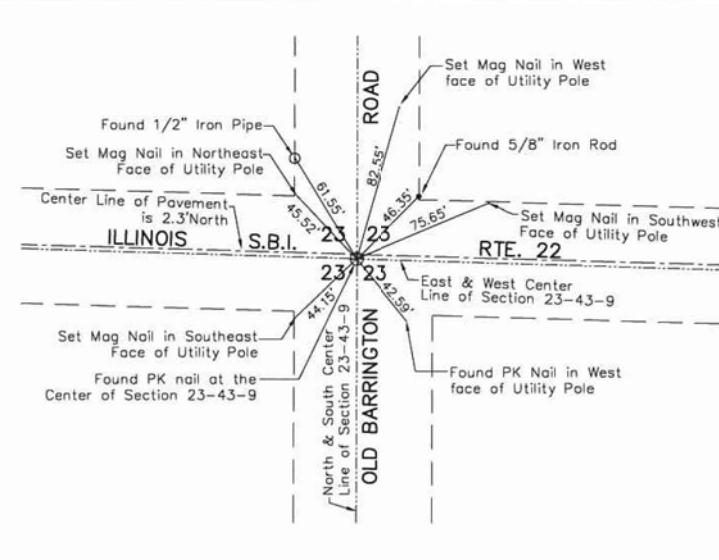
M-2
"Monument Record"
North Quarter Corner of Sec. 23-43-9
N. 2,014,751.79 - E. 1,033,883.29
Recorded March 12, 2013
Document No. 6973950



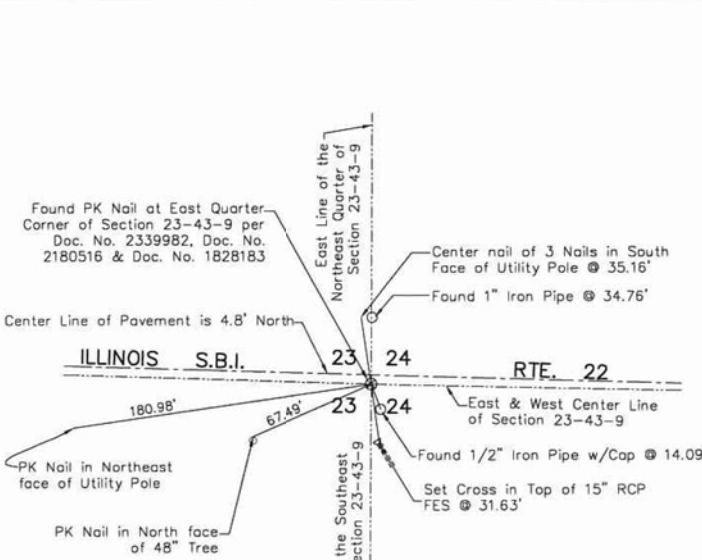
M-3
"Monument Record"
Northeast Corner of Sec. 23-43-9
N. 2,014,654.64 - E. 1,036,557.02
Recorded March 12, 2013
Document No. 6973950



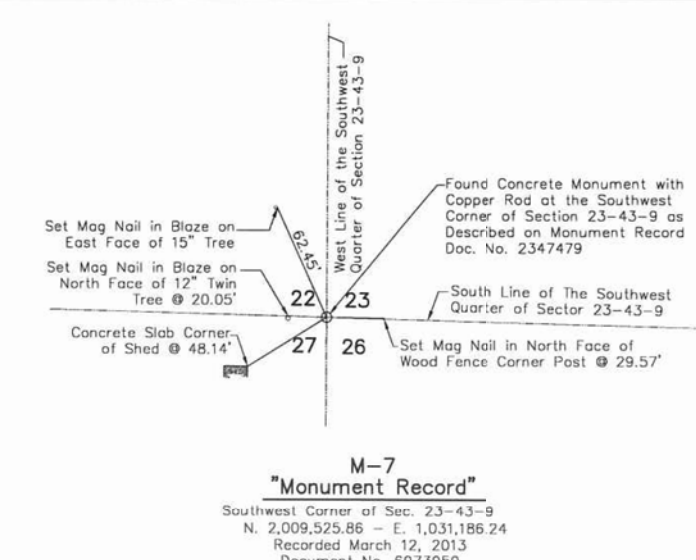
M-4
"Monument Record"
West Quarter Corner of Sec. 23-43-9
N. 2,012,178.01 - E. 1,031,197.87
Recorded March 12, 2013
Document No. 6973950



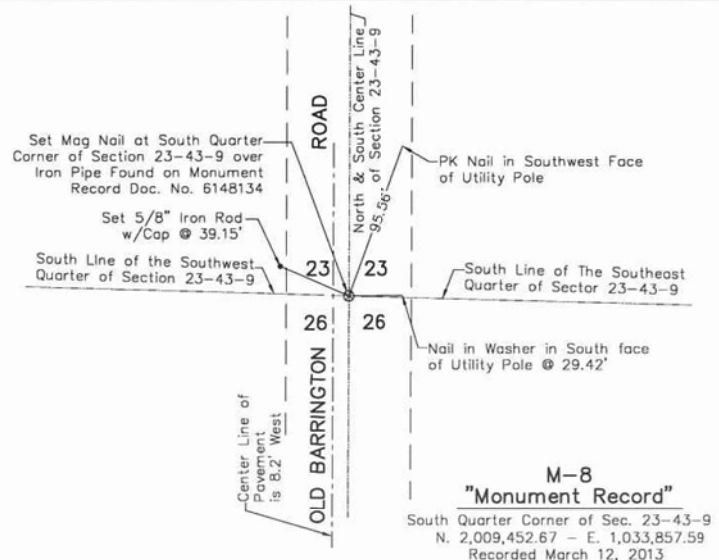
M-5
"Monument Record"
Center Corner of Sec. 23-43-9
(Also Detailed on Sheet 3 of 6)
N. 2,012,097.41 - E. 1,033,870.41
Recorded March 12, 2013
Document No. 6973950



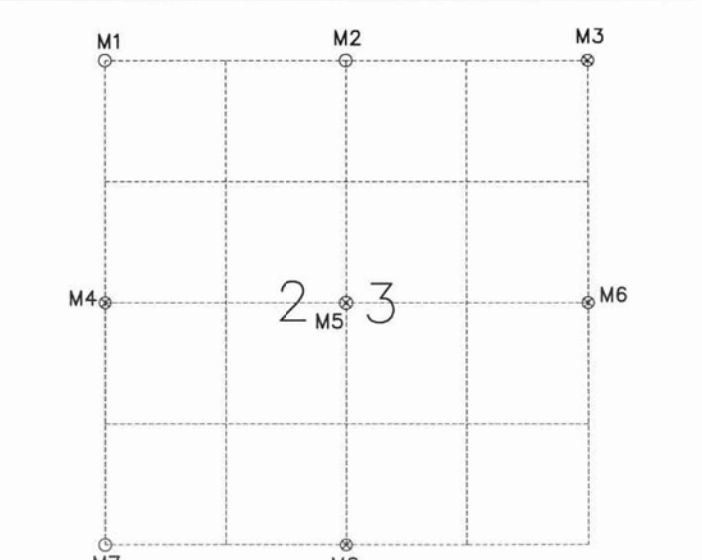
M-6
"Monument Record"
East Quarter Corner of Sec. 23-43-9
N. 2,012,016.94 - E. 1,036,540.00
Recorded March 12, 2013
Document No. 6973950



M-7
"Monument Record"
Southwest Corner of Sec. 23-43-9
N. 2,009,525.86 - E. 1,031,186.24
Recorded March 12, 2013
Document No. 6973950



M-8
"Monument Record"
South Quarter Corner of Sec. 23-43-9
N. 2,009,452.67 - E. 1,033,857.59
Recorded March 12, 2013
Document No. 6973950

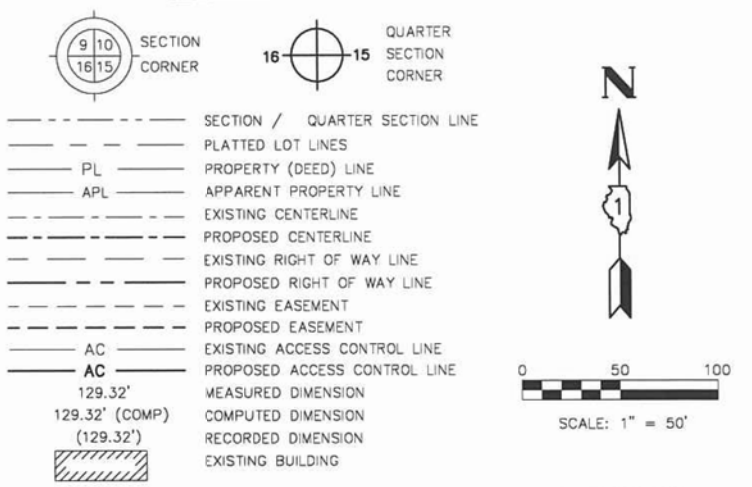


REVISION DATE:

REVISION

MADE BY

LEGEND



BEARINGS 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 "GROUND" NOT "GRID". TO OBTAIN GRID DISTANCES, MULTIPLY GROUND DISTANCES SHOWN BY THE COMBINATION FACTOR OF 0.99994381. ALL DIMENSIONS ARE MEASURED UNLESS OTHERWISE SPECIFIED.

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

STATE OF ILLINOIS)
) SS
COUNTY OF KENDALL)

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 23, TOWNSHIP 43 NORTH, RANGE 9 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 7th DAY OF OCTOBER, 2014, A.D.

Charles S. Marshall
CHARLES S. MARSHALL
035-003377
PROFESSIONAL
LAND
SURVEYOR
STATE OF
ILLINOIS
PLANO, IL

ILLINOIS PROFESSIONAL LAND SURVEYOR NO. 35-3377
LICENSE EXPIRATION DATE: 11/30/2014.

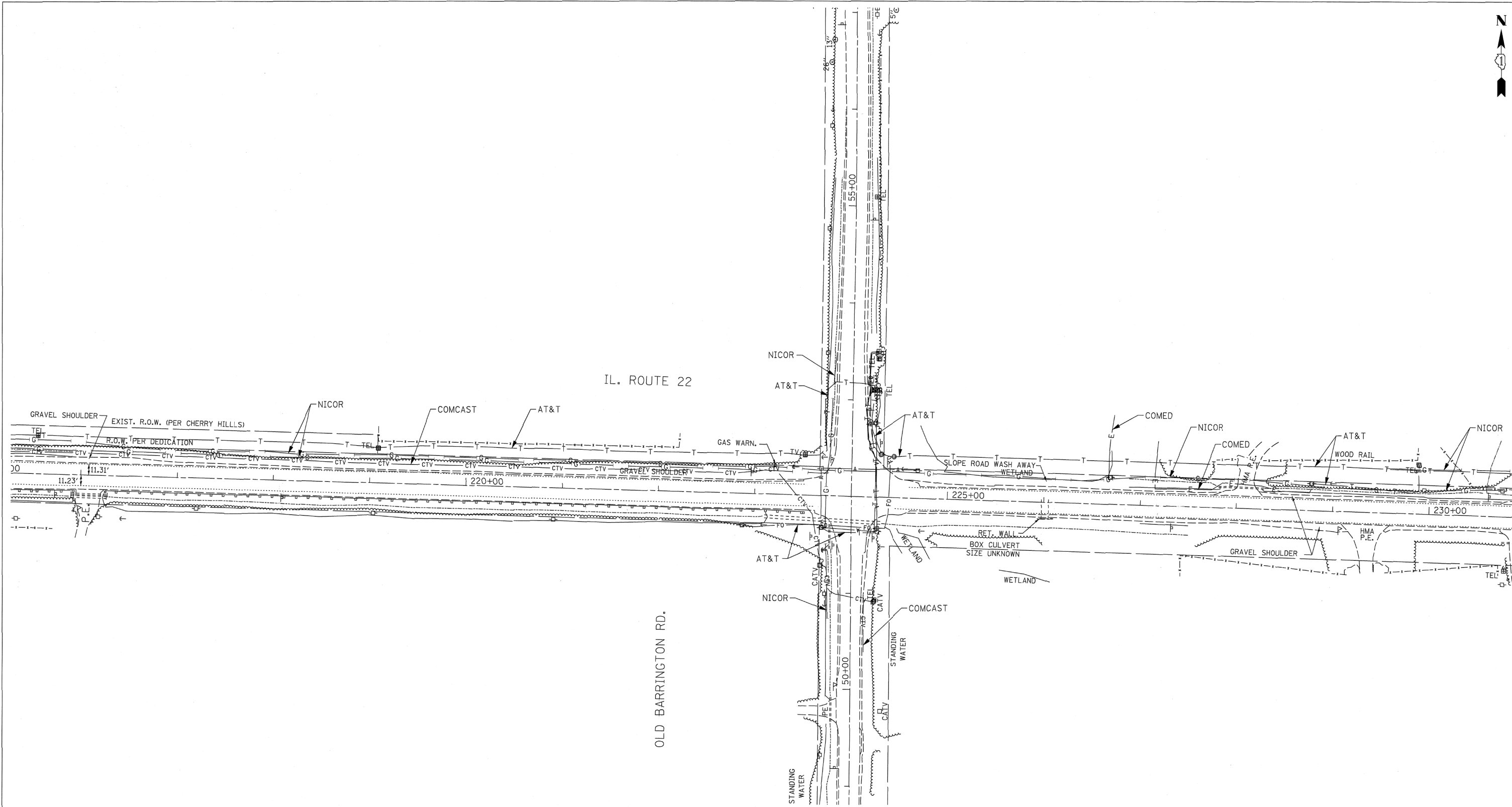
THIS PROFESSIONAL SERVICE CONFORMS TO THE CURRENT ILLINOIS MINIMUM STANDARDS FOR A BOUNDARY SURVEY.

ASMO
ASM CONSULTANTS, INC.
PO BOX 7
PLANO, IL 60545
(630) 273-2500
ASM PROJECT NO. 777-001

PLAT OF HIGHWAYS
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
F.A.P. 337 (ILLINOIS ROUTE 22)

SECTION: LAKE COUNTY
PROJECT: JOB NO. R-91-003-12
STATION 209+00 TO STATION 241+00
SCALE: 1" = 50' SHEET 6 OF 6

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

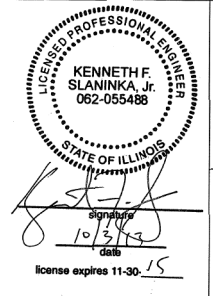


— A — A —	AERIAL
- - - - -	UNKNOWN
— CTV — CTV —	CABLE TV
— T — T —	TELEPHONE
— G — G —	GAS
— E — E —	ELECTRIC
— W — W —	WATER
— FO — FO —	FIBER OPTIC
⊕	TBE TEST HOLE

UTILITY OWNERS	
AT&T =	FIBER OPTIC
AT&T =	TELEPHONE
COMCAST =	CATV
COMED =	ELECTRIC
NICOR =	GAS

Utilities shown on these plans as depicted in the legend have been investigated by Cardno TBE in accordance with SUE Industry Standards. All other information shown has been provided to Cardno TBE by others. Cardno TBE's SUE field investigation was performed 9/12/13 through 9/19/13. Changes to utilities after 9/19/13 may have been made and therefore may result in variances from this plan. Consideration should be given to updating this plan if deemed advisable prior to final design and construction.

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



TBE Job No. IL09510542
SUE Plan Page: 1 of 1

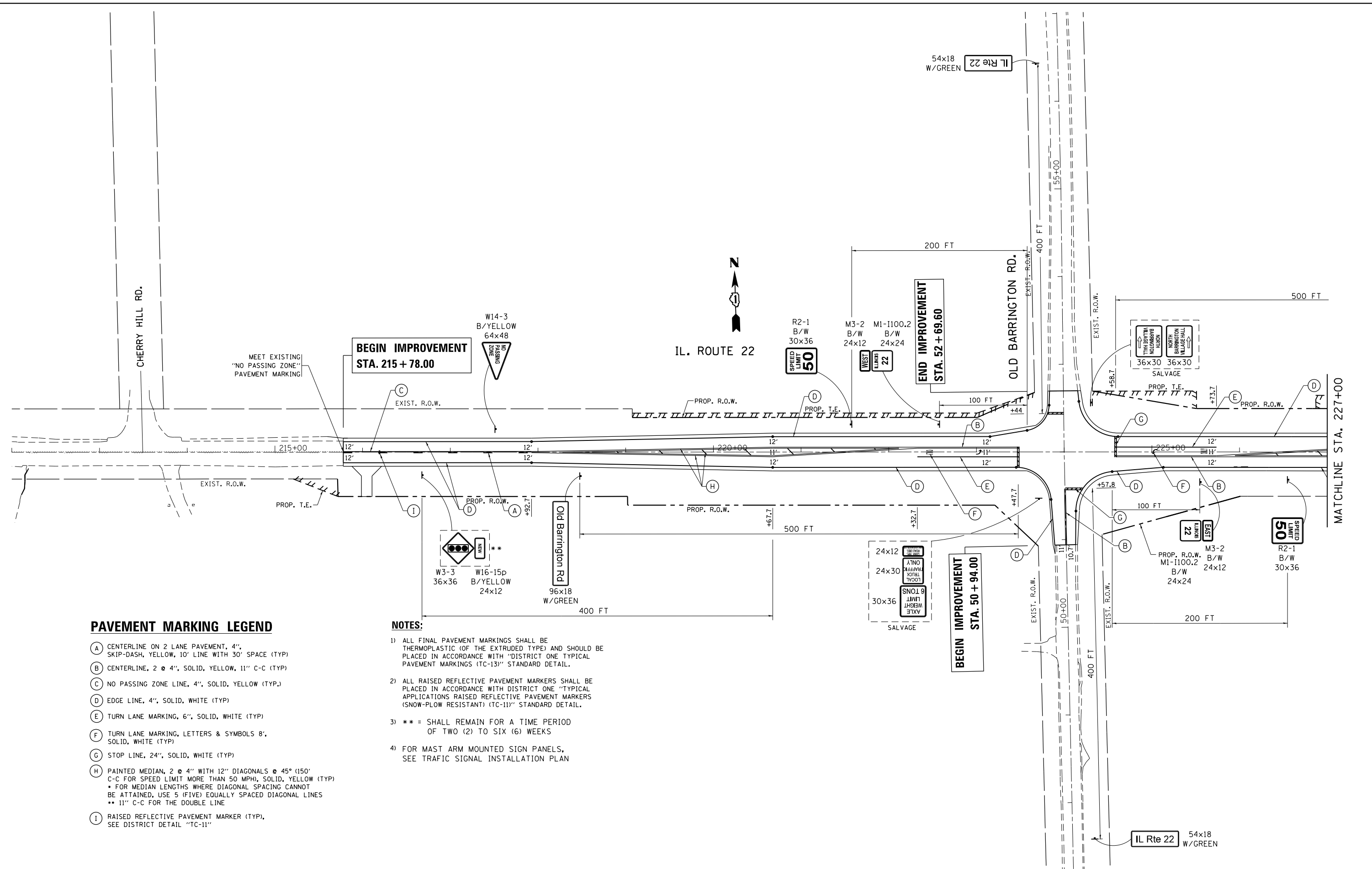
Utility Quality Level "A" : Visually Verified Test Hole
Utility Quality Level "B" : Designating/non Visually Verified Test Hole
Utility Quality Level "C" : Research with Survey
Utility Quality Level "D" : Records Research

DESIGNED	IP	REVISED
DRAWN	KLC	REVISED
CHECKED	KFS	REVISED
DATE	10/03/13	REVISED

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL 22 at Old Barrington Road
Cuba Township

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
337	19-N-2	Lake	81	44
Contract No. 60P06				
FED. ROAD DIST. NO. - ILLINOIS IDOT Project No.				



PAVEMENT MARKING LEGEND

- (A) CENTERLINE ON 2 LANE PAVEMENT, 4", SKIP-DASH, YELLOW, 10' LINE WITH 30' SPACE (TYP)
- (B) CENTERLINE, 2 @ 4", SOLID, YELLOW, 11" C-C (TYP)
- (C) NO PASSING ZONE LINE, 4", SOLID, YELLOW (TYP.)
- (D) EDGE LINE, 4", SOLID, WHITE (TYP)
- (E) TURN LANE MARKING, 6", SOLID, WHITE (TYP)
- (F) TURN LANE MARKING, LETTERS & SYMBOLS 8", SOLID, WHITE (TYP)
- (G) STOP LINE, 24", SOLID, WHITE (TYP)
- (H) PAINTED MEDIAN, 2 @ 4" WITH 12" DIAGONALS @ 45° (150' C-C FOR SPEED LIMIT MORE THAN 50 MPH); SOLID, YELLOW (TYP)
 * FOR MEDIAN LENGTHS WHERE DIAGONAL SPACING CANNOT BE ATTAINED, USE 5 (FIVE) EQUALLY SPACED DIAGONAL LINES
 ** 11" C-C FOR THE DOUBLE LINE
- (I) RAISED REFLECTIVE PAVEMENT MARKER (TYP), SEE DISTRICT DETAIL "TC-11"

NOTES:

- 1) ALL FINAL PAVEMENT MARKINGS SHALL BE THERMOPLASTIC (OF THE EXTRUDED TYPE) AND SHOULD BE PLACED IN ACCORDANCE WITH "DISTRICT ONE TYPICAL PAVEMENT MARKINGS (TC-13)" STANDARD DETAIL.
- 2) ALL RAISED REFLECTIVE PAVEMENT MARKERS SHALL BE PLACED IN ACCORDANCE WITH DISTRICT ONE "TYPICAL APPLICATIONS RAISED REFLECTIVE PAVEMENT MARKERS (SNOW-PLOW RESISTANT) (TC-11)" STANDARD DETAIL.
- 3) ** = SHALL REMAIN FOR A TIME PERIOD OF TWO (2) TO SIX (6) WEEKS
- 4) FOR MAST ARM MOUNTED SIGN PANELS, SEE TRAFFIC SIGNAL INSTALLATION PLAN

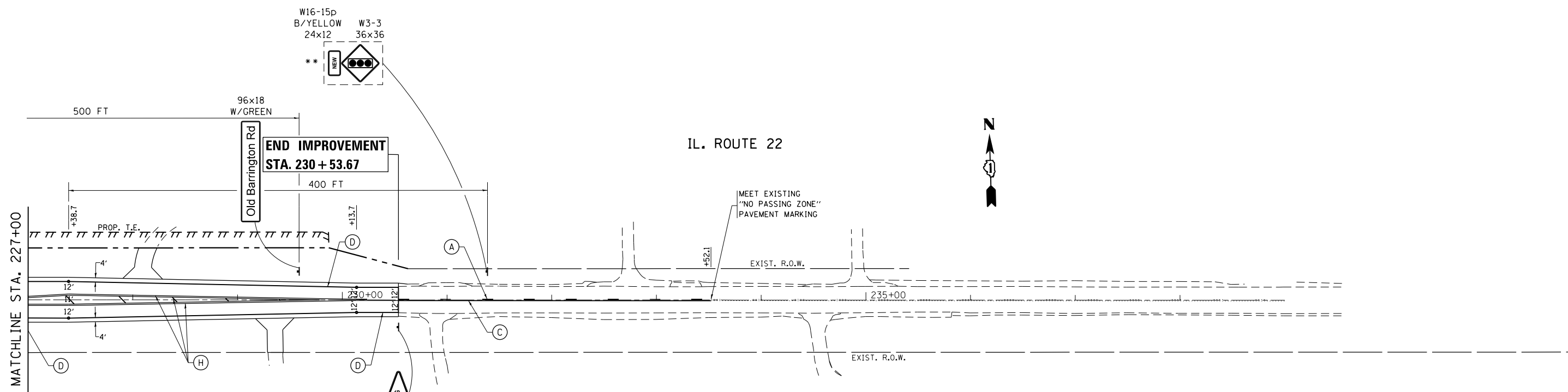
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	PLOT DATE = 2/10/2015	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**PAVEMENT MARKING AND SIGNING PLAN
IL. ROUTE 22 AT OLD BARRINGTON ROAD**

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
337	19-N-2	LAKE	81	45
ILLINOIS FED. AID PROJECT			CONTRACT NO. 60P06	



W16-15p
B/YELLOW 24x12
W3-3 36x36
**

END IMPROVEMENT
STA. 230 + 53.67

IL. ROUTE 22



W14-3
B/YELLOW 64x48

PAVEMENT MARKING LEGEND

- (A) CENTERLINE ON 2 LANE PAVEMENT, 4", SKIP-DASH, YELLOW, 10' LINE WITH 30' SPACE (TYP)
- (B) CENTERLINE, 2 @ 4", SOLID, YELLOW, 11" C-C (TYP)
- (C) NO PASSING ZONE LINE, 4", SOLID, YELLOW (TYP)
- (D) EDGE LINE, 4", SOLID, WHITE (TYP)
- (E) TURN LANE MARKING, 6", SOLID, WHITE (TYP)
- (F) TURN LANE MARKING, LETTERS & SYMBOLS 8", SOLID, WHITE (TYP)
- (G) STOP LINE, 24", SOLID, WHITE (TYP)
- (H) PAINTED MEDIAN, 2 @ 4" WITH 12" DIAGONALS @ 45° (150' C-C FOR SPEED LIMIT MORE THAN 50 MPH), SOLID, YELLOW (TYP)
• FOR MEDIAN LENGTHS WHERE DIAGONAL SPACING CANNOT BE ATTAINED, USE 5 (FIVE) EQUALLY SPACED DIAGONAL LINES
•• 11" C-C FOR THE DOUBLE LINE
- (I) RAISED REFLECTIVE PAVEMENT MARKER (TYP), SEE DISTRICT DETAIL "TC-11"

NOTES:

- 1) ALL FINAL PAVEMENT MARKINGS SHALL BE THERMOPLASTIC (OF THE EXTRUDED TYPE) AND SHOULD BE PLACED IN ACCORDANCE WITH "DISTRICT ONE TYPICAL PAVEMENT MARKINGS (TC-13)" STANDARD DETAIL.
- 2) ALL RAISED REFLECTIVE PAVEMENT MARKERS SHALL BE PLACED IN ACCORDANCE WITH DISTRICT ONE "TYPICAL APPLICATIONS RAISED REFLECTIVE PAVEMENT MARKERS (SNOW-PLOW RESISTANT) (TC-11)" STANDARD DETAIL.
- 3) ** = SHALL REMAIN FOR A TIME PERIOD OF TWO (2) TO SIX (6) WEEKS
- 4) FOR MAST ARM MOUNTED SIGN PANELS, SEE TRAFFIC SIGNAL INSTALLATION PLAN

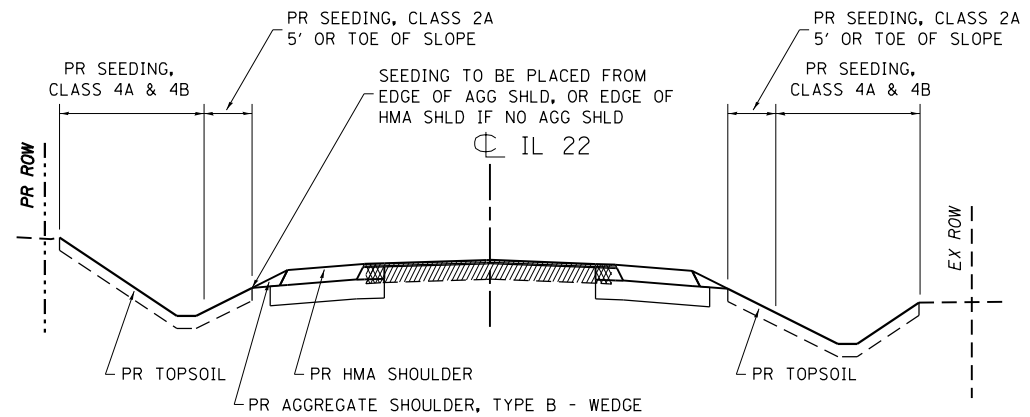
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PAVEMENT MARKING AND SIGNING PLAN
IL. ROUTE 22 AT OLD BARRINGTON ROAD

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

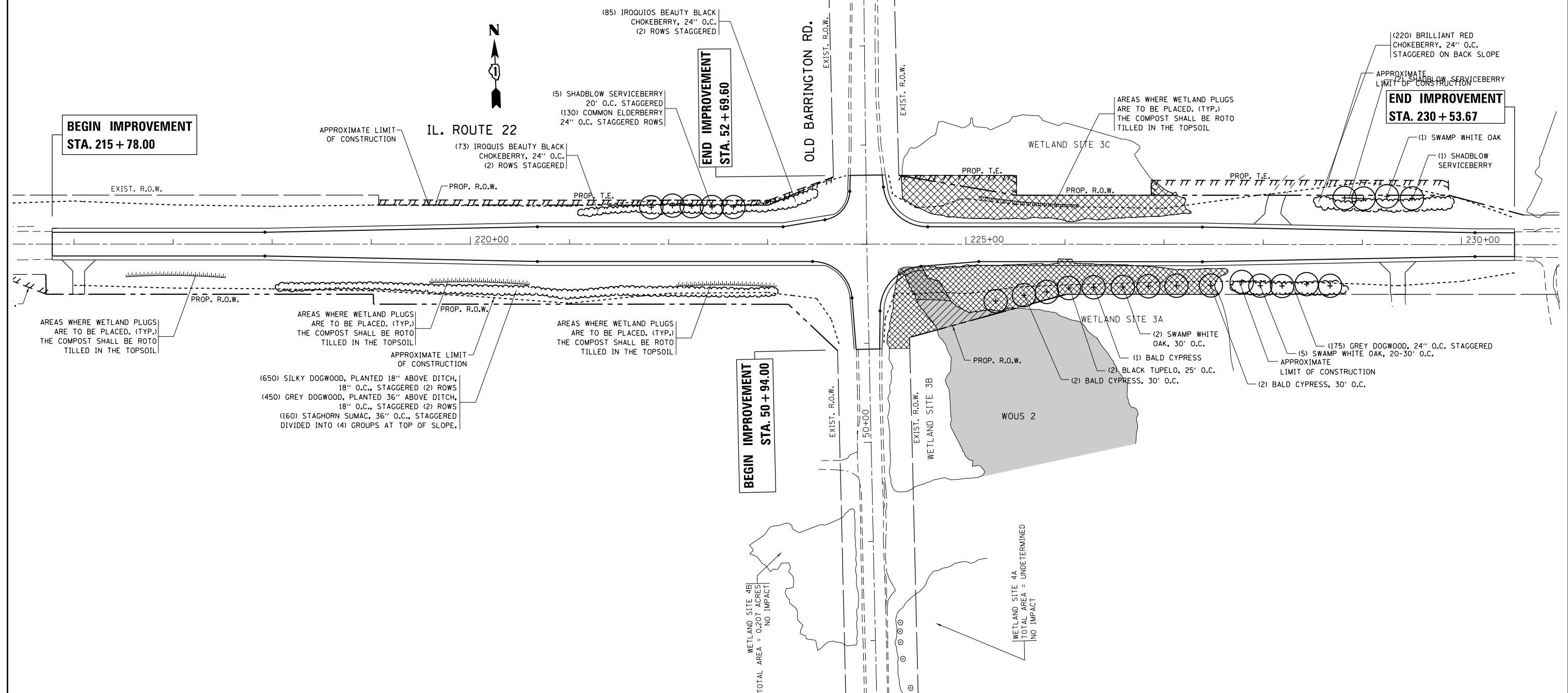
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
337	19-N-2	LAKE	81	46
CONTRACT NO. 60P06			ILLINOIS FED. AID PROJECT	



TYPICAL SEEDING AREAS AND MIXTURE

NOTES:

- ① SHRUBS ON A 1:2 SLOPE WILL NOT BE MULCHED
- ② CONTACT THE ROADSIDE DEVELOPMENT UNIT, MELISSA DEL ROSARIO, ONE WEEK PRIOR TO PLANT INSTALLATION FOR LAYOUT APPROVAL
- ③ WETLAND PLUGS SHALL BE INSTALLED 12" ABOVE DITCH LINE, 15" O.C., (3) ROWS MAXIMUM ON BOTH FORESLOPE AND BACKSLOPE. PLANTS WILL BE EVENLY DISTRIBUTED WITHIN THE AREAS SHOWN ON THE PLANS.



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	PLOT DATE = 2/10/2015	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**LANDSCAPING PLAN
IL. ROUTE 22 AT OLD BARRINGTON ROAD**

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
337	19-N-2	LAKE	81	47
ILLINOIS FED. AID PROJECT			CONTRACT NO. 60P06	

TRAFFIC SIGNAL LEGEND

ITEM	REMOVAL	EXISTING	PROPOSED	ITEM	REMOVAL	EXISTING	PROPOSED	ITEM	REMOVAL	EXISTING	PROPOSED
CONTROLLER CABINET				EMERGENCY VEHICLE LIGHT DETECTOR				ELECTRIC CABLE IN CONDUIT, TRACER, NO. 14 1/C, UNLESS NOTED OTHERWISE			
RAILROAD CONTROL CABINET				CONFIRMATION BEACON				COAXIAL CABLE			
COMMUNICATIONS CABINET				HANDHOLE				VENDOR CABLE FOR CAMERA			
MASTER CONTROLLER				HEAVY DUTY HANDHOLE				COPPER INTERCONNECT CABLE, NO. 18 3 PAIR TWISTED, SHIELDED			
MASTER MASTER CONTROLLER				DOUBLE HANDHOLE				FIBER OPTIC CABLE NO. 62.5/125, MM12F			
UNINTERRUPTABLE POWER SUPPLY				JUNCTION BOX				FIBER OPTIC CABLE NO. 62.5/125, MM12F SM12F			
SERVICE INSTALLATION, (P) POLE OR (G) GROUND MOUNT				UNDERGROUND CONDUIT, GALVANIZED STEEL (UC)				FIBER OPTIC CABLE NO. 62.5/125, MM12F SM24F			
TELEPHONE CONNECTION (P) POLE OR (G) GROUND MOUNT				TEMPORARY SPAN WIRE, TETHER WIRE, AND CABLE				FIBER OPTIC CABLE NO. 62.5/125, MM12F SM24F			
STEEL MAST ARM ASSEMBLY AND POLE				COMMON TRENCH				GROUND ROD AT (C) CONTROLLER, (H) HANDHOLE, (P) POST, (M) MAST ARM, OR (S) SERVICE			
ALUMINUM MAST ARM ASSEMBLY AND POLE				COILABLE NONMETALLIC CONDUIT (EMPTY)				CONTROLLER CABINET AND FOUNDATION TO BE REMOVED			
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE WITH LUMINAIRE				SYSTEM ITEM				STEEL MAST ARM POLE AND FOUNDATION TO BE REMOVED			
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE WITH PTZ CAMERA				INTERSECTION ITEM				ALUMINUM MAST ARM POLE AND FOUNDATION TO BE REMOVED			
SIGNAL POST				REMOVE ITEM				STEEL COMBINATION MAST ARM ASSEMBLY AND POLE WITH LUMINAIRE AND FOUNDATION TO BE REMOVED			
TEMPORARY WOOD POLE (CLASS 5 OR BETTER) 45 FOOT (13.7m) MINIMUM				RELOCATE ITEM				SIGNAL POST AND FOUNDATION TO BE REMOVED			
GUY WIRE				ABANDON ITEM				INTERSECTION & SAMPLING (SYSTEM) DETECTOR			
SIGNAL HEAD				12" (300mm) TRAFFIC SIGNAL SECTION				SAMPLING (SYSTEM) DETECTOR			
SIGNAL HEAD CONSTRUCTION STAGES (NUMBERS INDICATE THE CONSTRUCTION STAGE)				12" (300mm) RED WITH 8" (200mm) YELLOW AND GREEN TRAFFIC SIGNAL FACE				QUEUE DETECTOR			
SIGNAL HEAD WITH BACKPLATE				SIGNAL FACE				PREFORMED QUEUE DETECTOR			
SIGNAL HEAD OPTICALLY PROGRAMMED				SIGNAL FACE WITH BACKPLATE, "P" INDICATES PROGRAMMED HEAD				PREFORMED INTERSECTION AND SAMPLING (SYSTEM) DETECTOR			
FLASHER INSTALLATION (S DENOTES SOLAR POWER)				"RB" INDICATES REFLECTIVE BACKPLATE				PREFORMED SAMPLING (SYSTEM) DETECTOR			
PEDESTRIAN SIGNAL HEAD				12" (300mm) PEDESTRIAN SIGNAL HEAD WALK/DON'T WALK SYMBOL							
PEDESTRIAN PUSHBUTTON DETECTOR				12" (300mm) PEDESTRIAN SIGNAL HEAD INTERNATIONAL SYMBOL, OUTLINED							
ACCESSIBLE PEDESTRIAN PUSHBUTTON DETECTOR				12" (300mm) PEDESTRIAN SIGNAL HEAD INTERNATIONAL SYMBOL, SOLID							
ILLUMINATED SIGN "NO LEFT TURN"				PEDESTRIAN SIGNAL HEAD, INTERNATIONAL SYMBOL, WITH COUNTDOWN TIMER							
ILLUMINATED SIGN "NO RIGHT TURN"				RADIO INTERCONNECT							
DETECTOR LOOP, TYPE I				RADIO REPEATER							
PREFORMED DETECTOR LOOP				DENOTES NUMBER OF CONDUCTORS, ELECTRIC CABLE NO. 14, UNLESS NOTED OTHERWISE, ALL DETECTOR LOOP CABLE TO BE SHIELDED							
MICROWAVE VEHICLE SENSOR				GROUND CABLE IN CONDUIT NO. 6 SOLID COPPER (GREEN)							
VIDEO DETECTION CAMERA											
VIDEO DETECTION ZONE											
PAN, TILT, ZOOM CAMERA											
WIRELESS DETECTOR SENSOR											
WIRELESS ACCESS POINT											

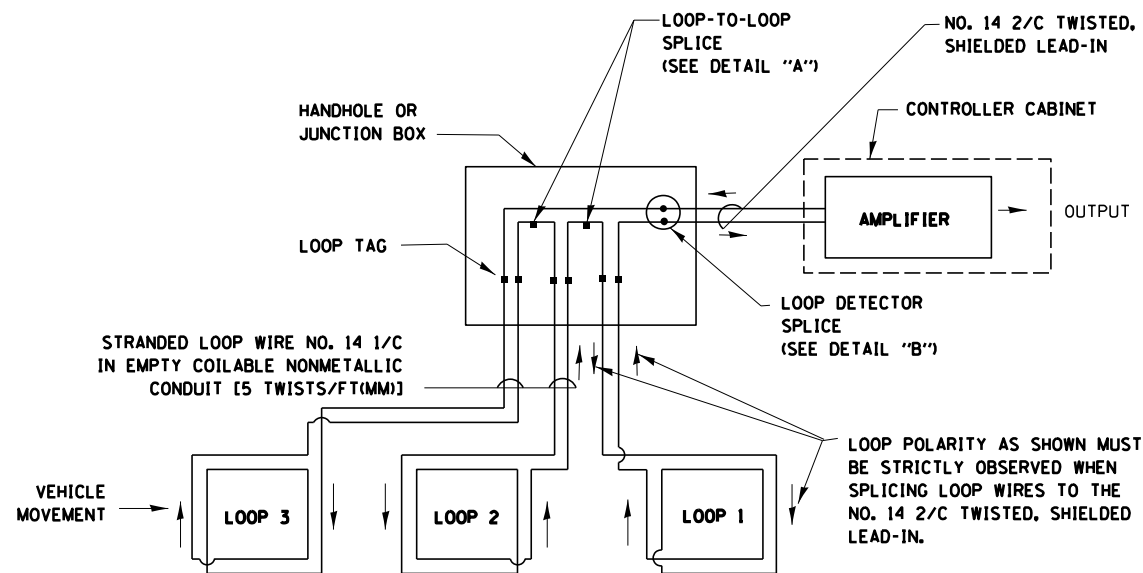
RAILROAD SYMBOLS

	EXISTING	PROPOSED
RAILROAD CONTROL CABINET		
RAILROAD CANTILEVER MAST ARM		
FLASHING SIGNAL		
CROSSING GATE		
CROSSBUCK		

TS SHT NO. 1

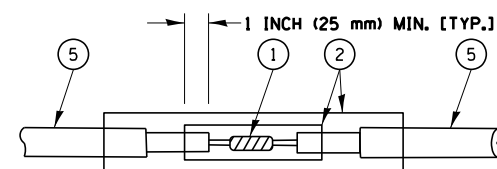
LOOP DETECTOR NOTES

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.

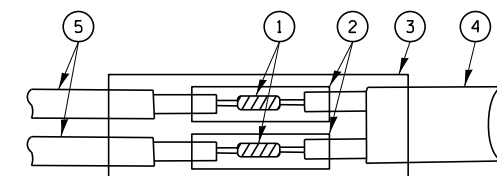


DETECTOR LOOP WIRING SCHEMATIC

- 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.



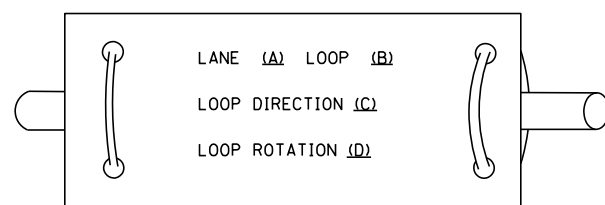
**DETAIL "A"
LOOP-TO-LOOP SPLICE**



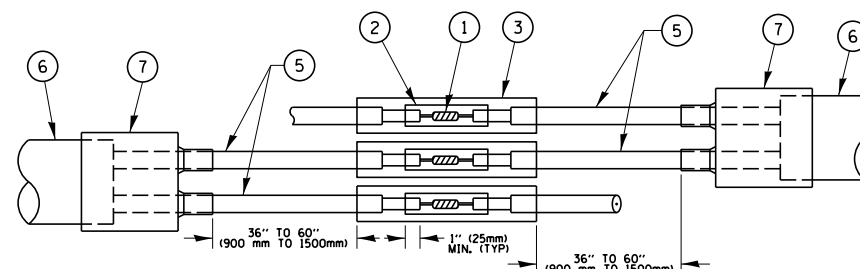
**DETAIL "B"
LOOP-TO-CONTROLLER SPLICE**

TYPE I LOOP

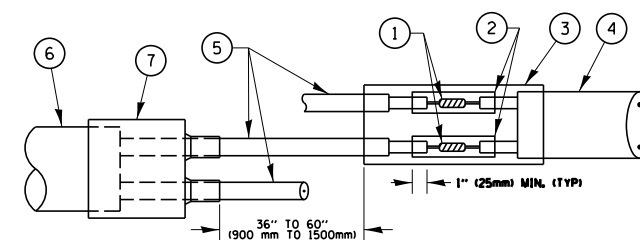
LOOP LEAD-IN CABLE TAG



- 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**

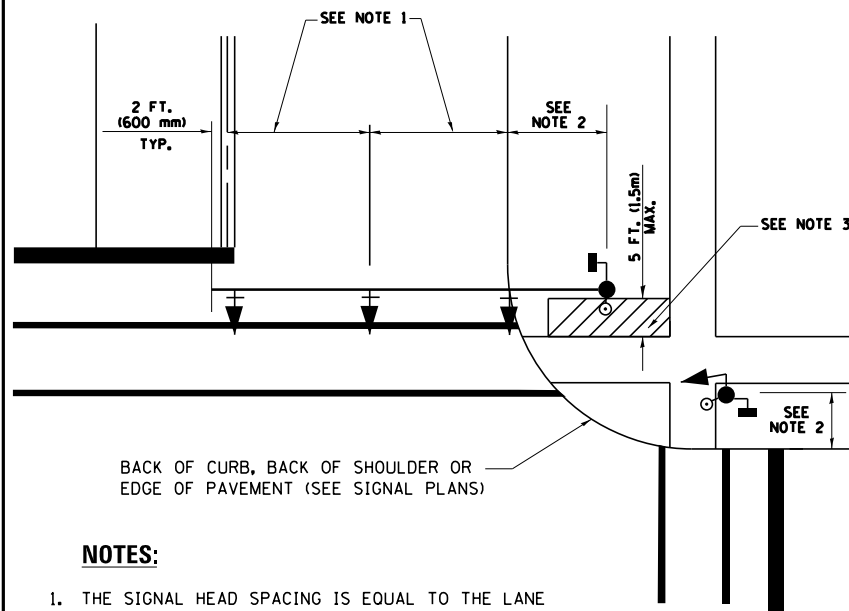
LOOP DETECTOR SPLICE

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

TS SHT NO. 2

FILE NAME =	USER NAME = plascencia	DESIGNED - DAD	REVISED - DAG 1-1-14	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	DISTRICT ONE		F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		DRAWN - BCK	REVISED -		STANDARD TRAFFIC SIGNAL DESIGN DETAILS		337	19-N-2	LAKE	81	49
		CHECKED - DAD	REVISED -		SCALE: NONE	SHEET NO. 2 OF 7 SHEETS	STA.	TS-05		CONTRACT NO. 60P06	
		DATE - 10-28-09	REVISED -				TO STA.		FED. ROAD DIST. NO. 1 (ILLINOIS) FED. AID PROJECT		

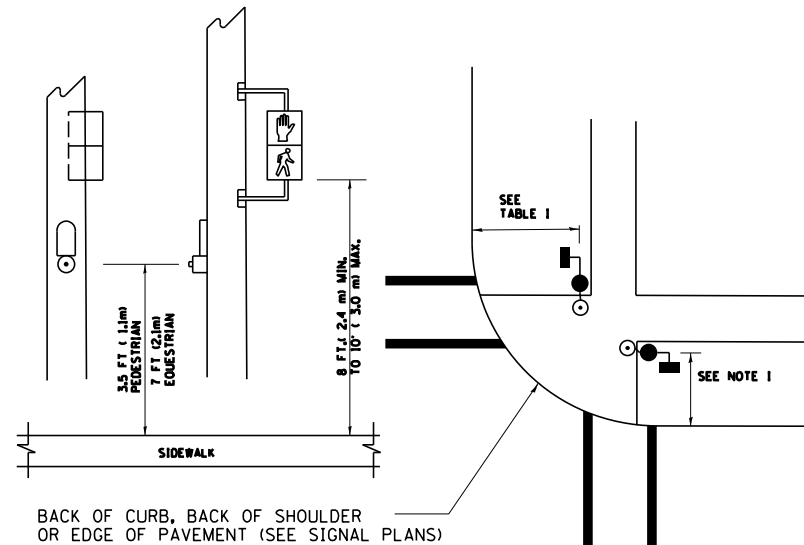
TRAFFIC SIGNAL MAST ARM AND SIGNAL POST
MAST ARM MOUNTED SIGNALS IN EXISTING, PROPOSED OR
FUTURE SIDEWALK/BICYCLE PATH AREA. INTERSECTION SHOWN
WITH PEDESTRIAN SIGNALS AND PEDESTRIAN PUSHBUTTON DETECTORS.



NOTES:

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

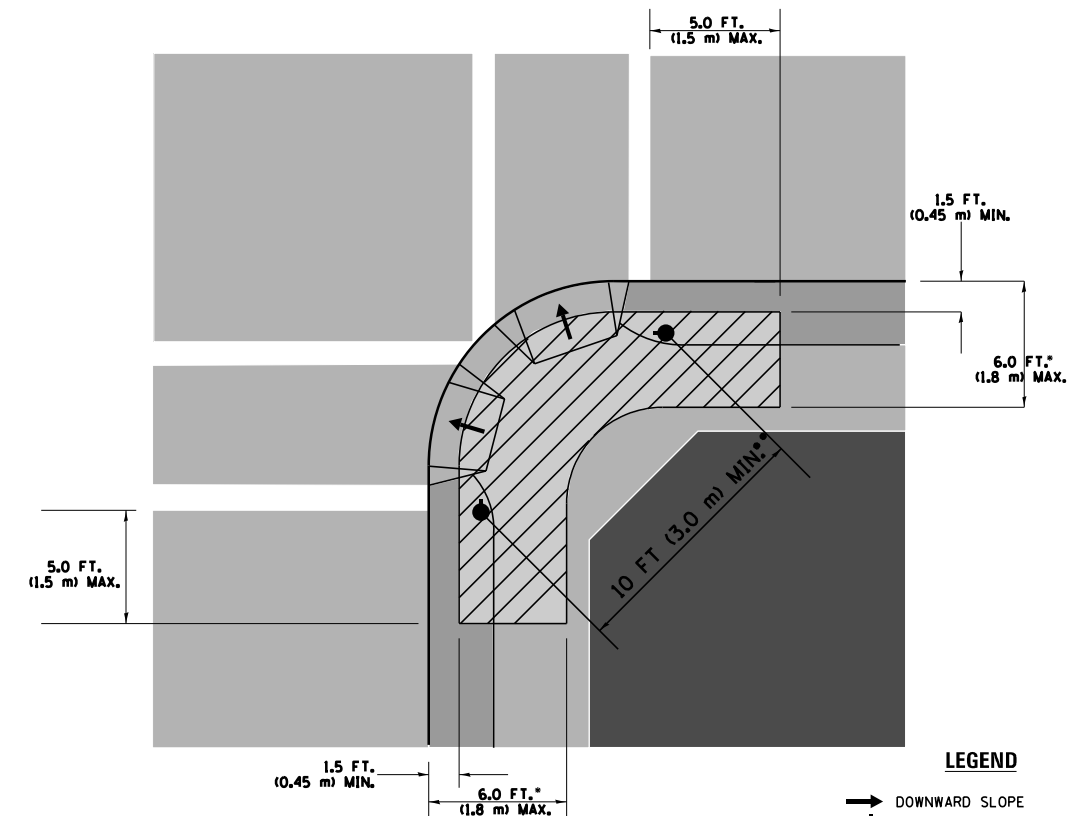
PEDESTRIAN SIGNAL POST
AND
PEDESTRIAN PUSH BUTTON POST



NOTES:

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

RECOMMENDED PUSHBUTTON LOCATIONS



LEGEND

- DOWNWARD SLOPE
- PEDESTRIAN PUSHBUTTON
- ▨ RECOMMENDED PUSHBUTTON LOCATIONS

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

NOTES:

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

TRAFFIC SIGNAL EQUIPMENT OFFSET

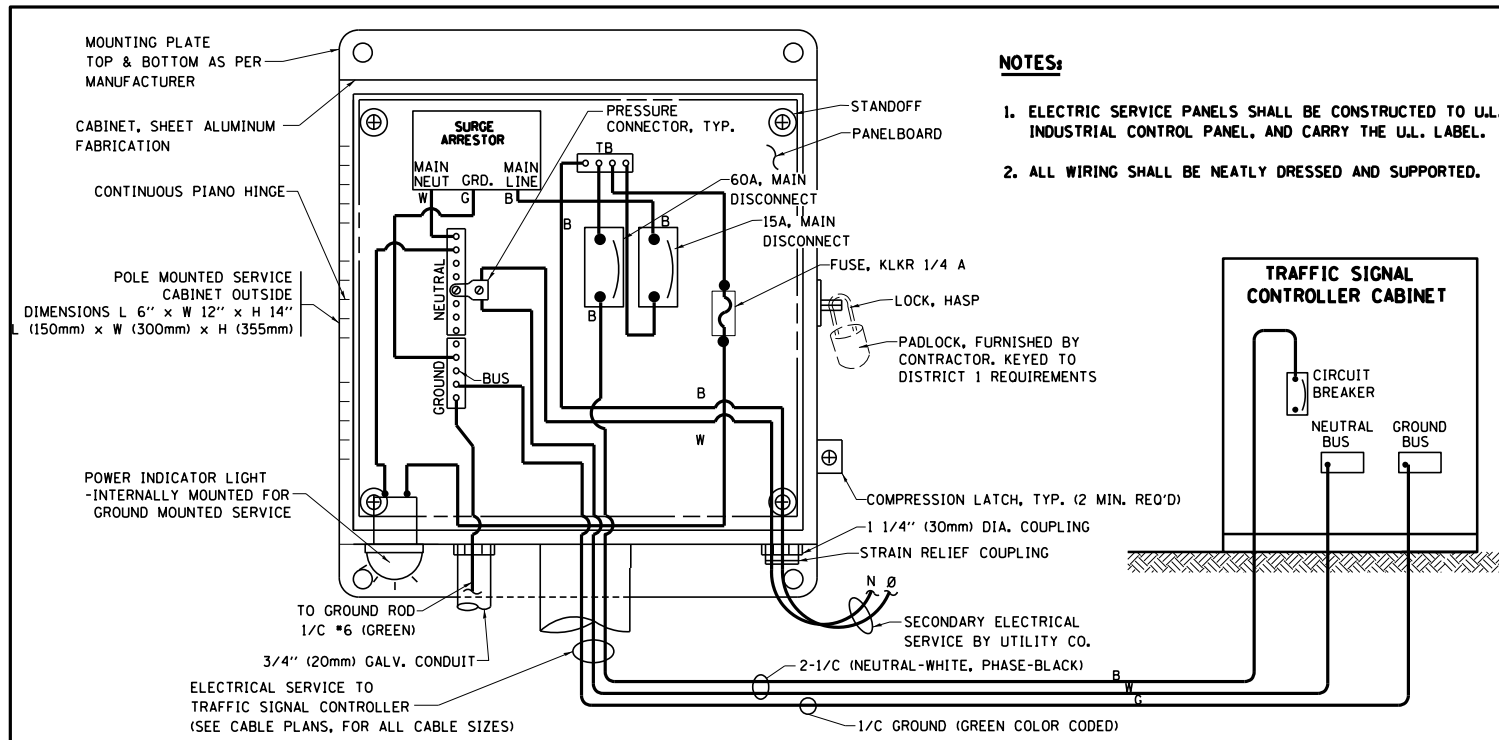
TRAFFIC SIGNAL EQUIPMENT	COMBINATION CONCRETE CURB AND GUTTER (MINIMUM DISTANCE FROM BACK OF CURB TO CENTERLINE OF FOUNDATION)	SHOULDER/NON-CURBED AREA (MINIMUM DISTANCE FROM EDGE OF PAVEMENT TO CENTERLINE OF FOUNDATION)
TRAFFIC SIGNAL MAST ARM POLE	6 FT (1.8m)	SHOULDER WIDTH + 2 FT (0.6m), MINIMUM 10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

NOTES:

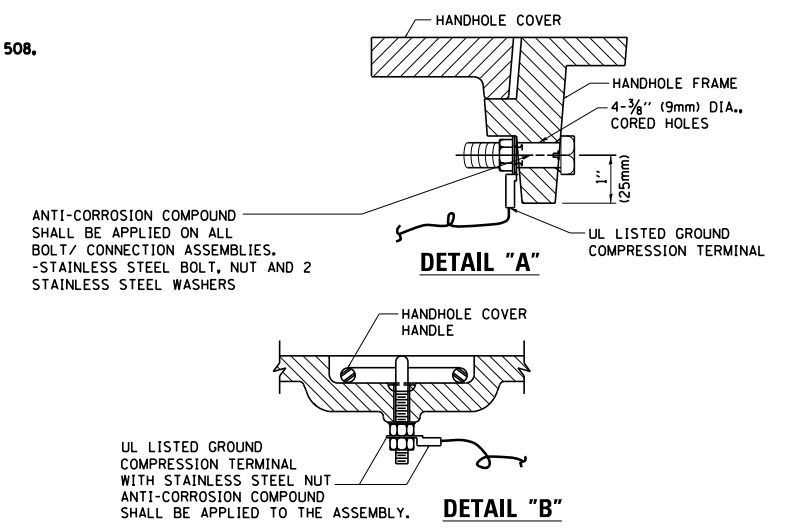
1. CONTACT THE "AREA TRAFFIC SIGNAL MAINTENANCE AND OPERATIONS ENGINEER" FOR ASSISTANCE IN LOCATING THE TRAFFIC SIGNAL EQUIPMENT WHEN THERE ARE CONFLICTS WITH DITCHES OR THE MINIMUM OFFSET DISTANCES CANNOT BE MET.
2. MINIMUM DISTANCE FROM THE BACK OF CURB TO THE ROADWAY SIDE OF THE FOUNDATION.
3. MINIMUM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

TS SHT NO. 3

FILE NAME =	USER NAME = plascencia	DESIGNED - DAD	REVISED - DAG 1-1-14	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	DISTRICT ONE STANDARD TRAFFIC SIGNAL DESIGN DETAILS	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	PLOT SCALE = 100.0000' / 1"	DRAWN - BCK	REVISED -			337	19-N-2	LAKE	81	50
	PLOT DATE = 2/3/2015	CHECKED - DAD	REVISED -			TS-05		CONTRACT NO. 60P06		FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT

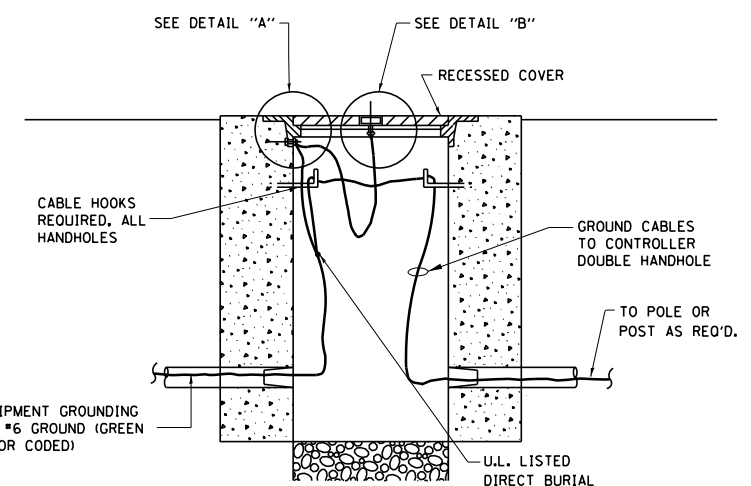


ELECTRICAL SERVICE - PANEL DIAGRAM (TYPICAL FOR POLE AND GROUND MOUNTED SERVICE)
SERVICE INSTALLATION POLE MOUNT (SHOWN)
 (NOT TO SCALE)

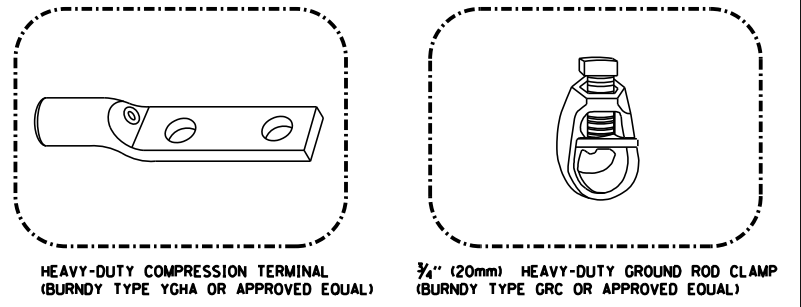


NOTES:
GROUNDING SYSTEM

- 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.

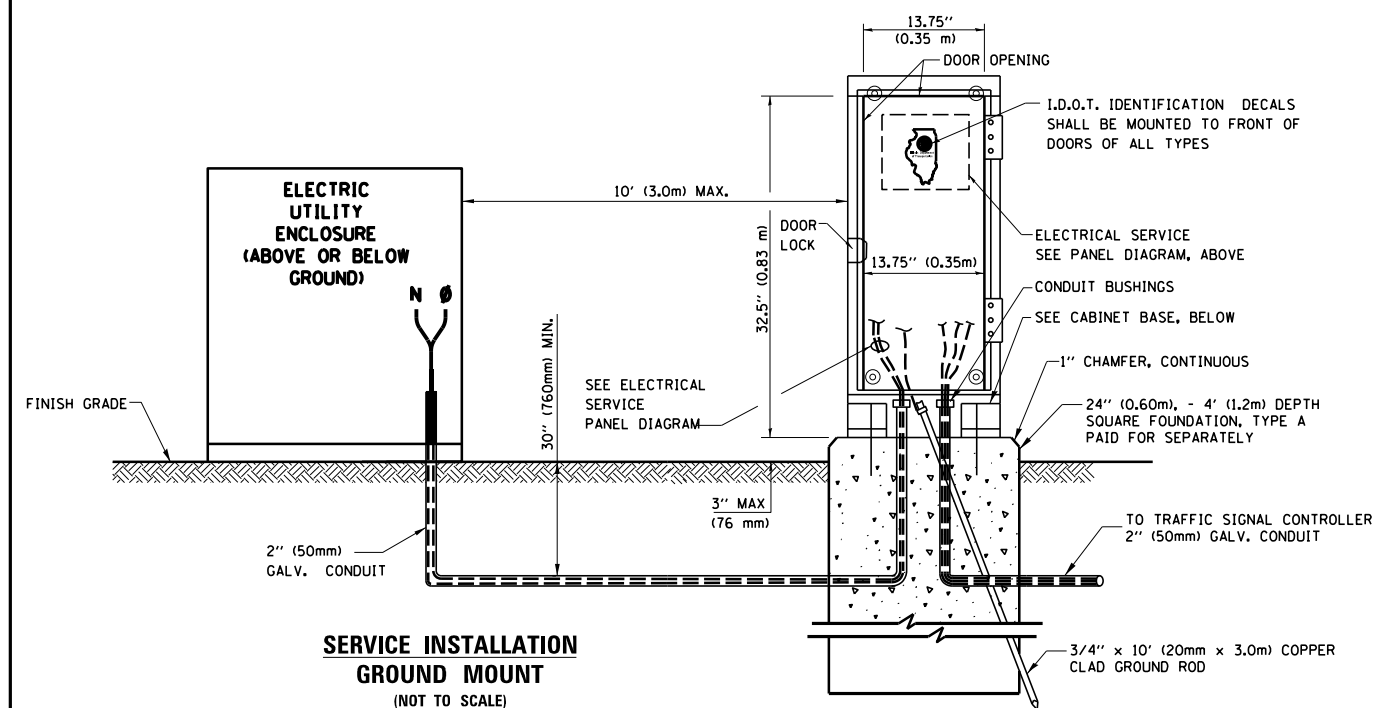


HANDHOLE COVER & FRAME - GROUNDING DETAIL
 (NOT TO SCALE)

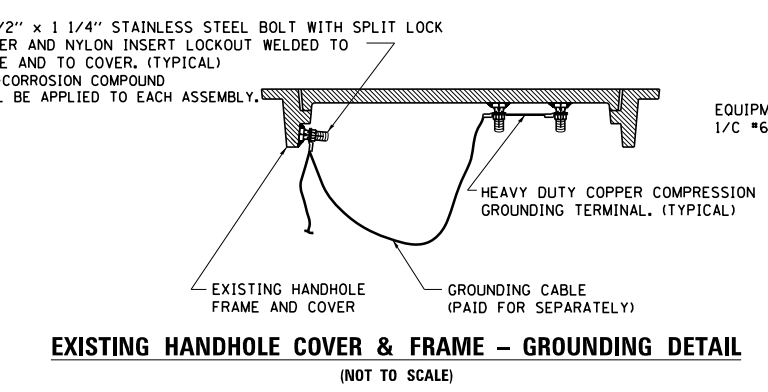


NOTES:

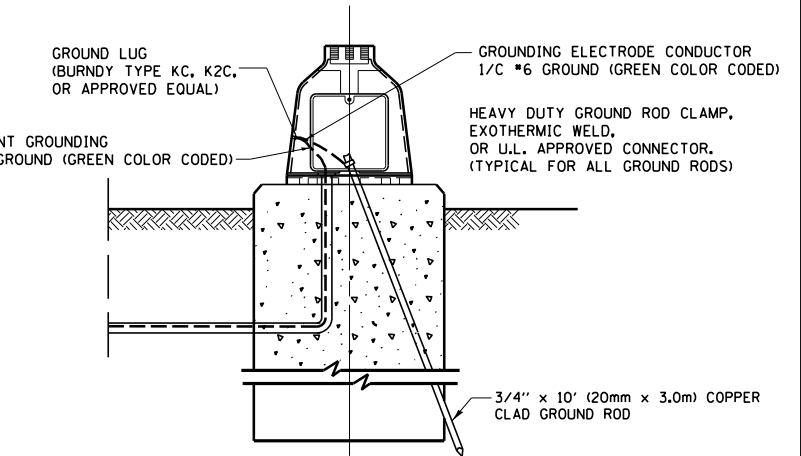
- ALL CLAMPS SHALL BE BRONZE OR COPPER, UL APPROVED.
- GROUND CABLE SHALL BE LOOPED OVER HOOKS IN THE HANDHOLES 6.5' (2.0m) SLACK SHALL BE PROVIDED IN SINGLE HANDHOLES 13' (4.0m) OF SLACK SHALL BE PROVIDED IN DOUBLE HANDHOLES. 5' (1.4m) OF SLACK SHALL BE PROVIDED BETWEEN FRAME AND COVER.



SERVICE INSTALLATION GROUND MOUNT
 (NOT TO SCALE)

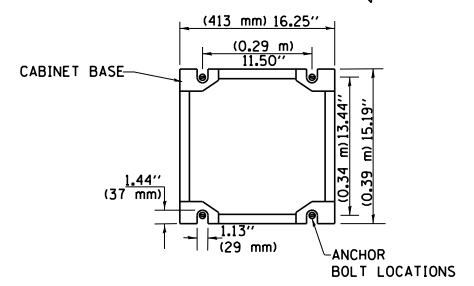


EXISTING HANDHOLE COVER & FRAME - GROUNDING DETAIL
 (NOT TO SCALE)



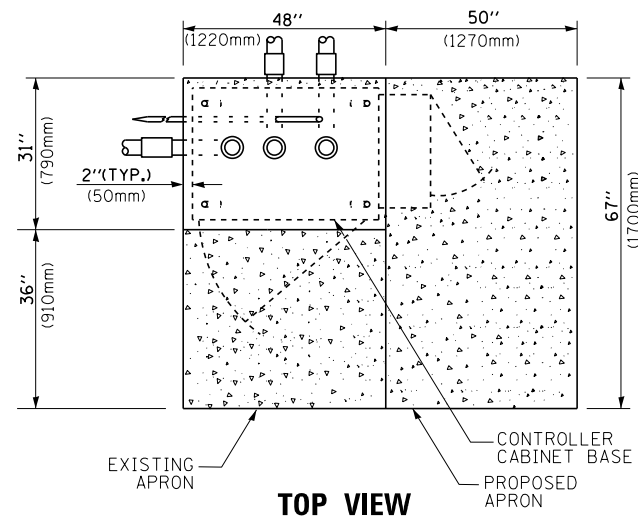
MAST ARM POLE / POST-GROUNDING DETAIL
 (NOT TO SCALE)

CABINET - BASE BOLT PATTERN
 (NOT TO SCALE)

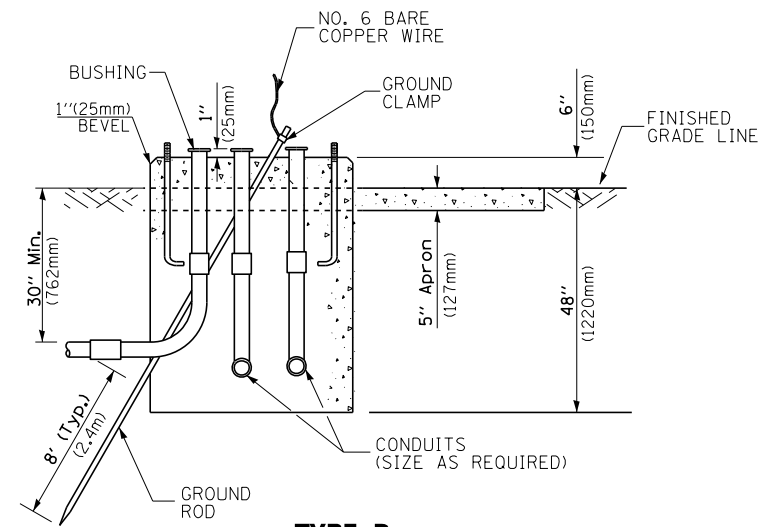


TS SHT NO. 4

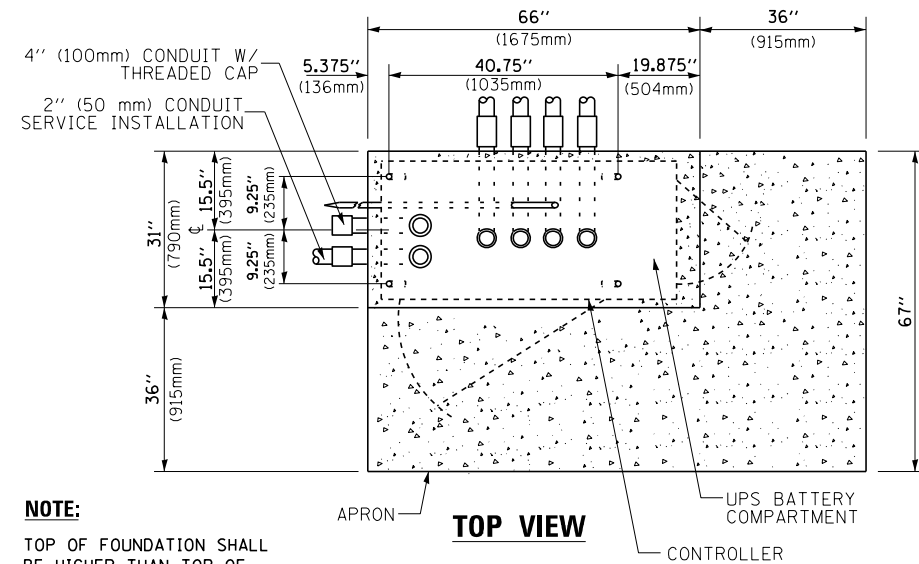
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PLOT SCALE = 100.0000' / 1"	CHECKED - DAD	DATE - 10-28-09	REVISED -		SCALE: NONE	SHEET NO. 4 OF 7 SHEETS	STA. TO STA.	TS-05		CONTRACT NO. 60P06		
PLOT DATE = 2/3/2015	DATE - 10-28-09	REVISED -	REVISED -		FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT							



TOP VIEW

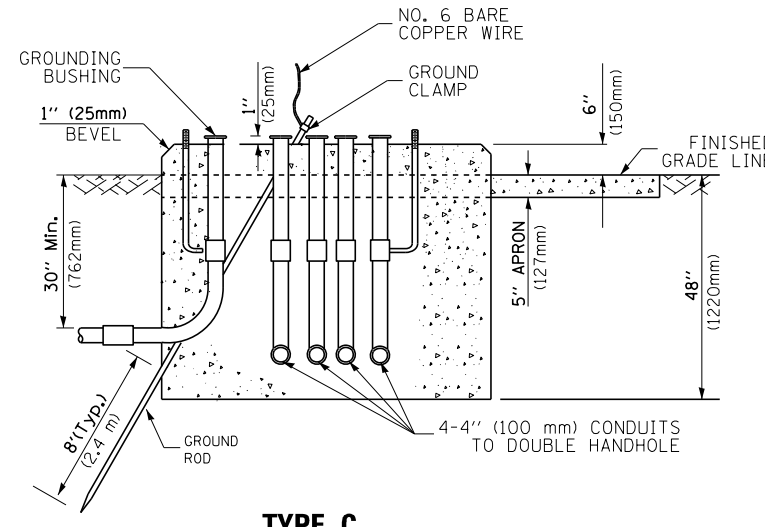


**TYPE D
FOR GROUND MOUNTED
CONTROLLER CABINET
AND UPS BATTERY CABINET**

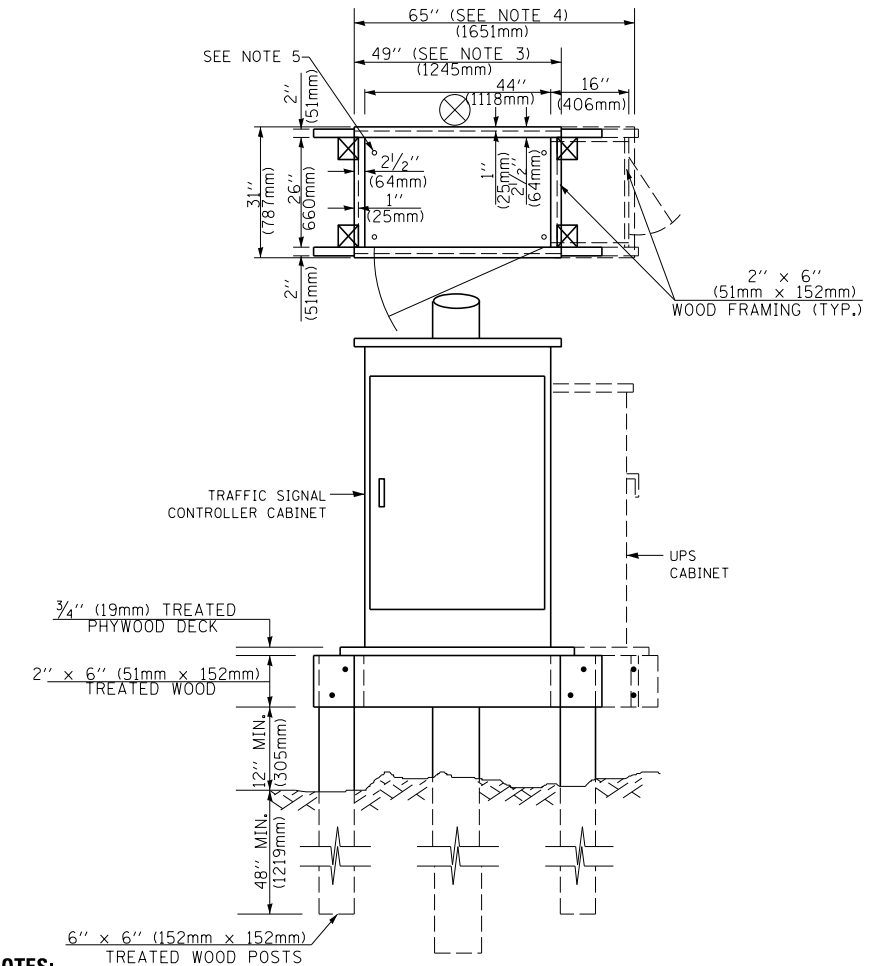


TOP VIEW

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



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



NOTES:

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

**TEMPORARY SIGNAL CONTROLLER
WOOD SUPPORT PLATFORM**

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

CABLE SLACK

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

VERTICAL CABLE LENGTH

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

DEPTH OF FOUNDATION

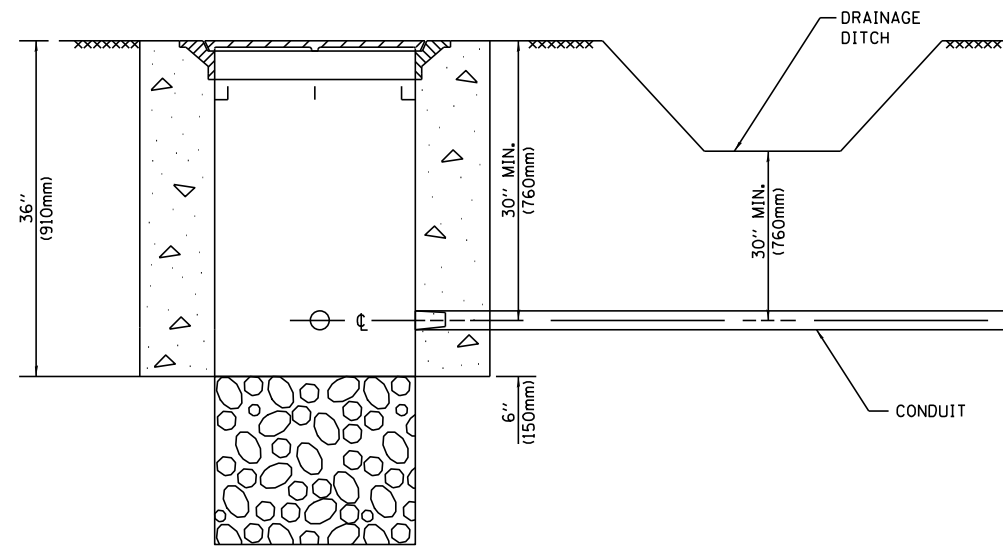
Mast Arm Length	① Foundation Depth	Foundation Diameter	Spiral Diameter	Quantity of Rebars	Size of Rebars
Less than 30' (9.1 m)	10'-0" (3.0 m)	30" (750mm)	24" (600mm)	8	6(19)
Greater than or equal to 30' (9.1 m) and less than 40' (12.2 m)	13'-6" (4.1 m)	30" (750mm)	24" (600mm)	8	6(19)
Greater than or equal to 40' (12.2 m) and less than 50' (15.2 m)	11'-0" (3.4 m)	36" (900mm)	24" (600mm)	12	7(22)
Greater than or equal to 50' (15.2 m) and up to 55' (16.8 m)	13'-0" (4.0 m)	36" (900mm)	30" (750mm)	12	7(22)
Greater than or equal to 55' (16.8 m) and less than 65' (19.8 m)	15'-0" (4.6 m)	36" (900mm)	30" (750mm)	12	7(22)
Greater than or equal to 65' (19.8 m) and up to 75' (22.9 m)	21'-0" (6.4 m)	42" (1060mm)	36" (900mm)	16	8(25)
Greater than or equal to 75' (22.9 m) and up to 85' (25.9 m)	25'-0" (7.6 m)	42" (1060mm)	36" (900mm)	16	8(25)

NOTES:

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

DEPTH OF MAST ARM FOUNDATIONS, TYPE E

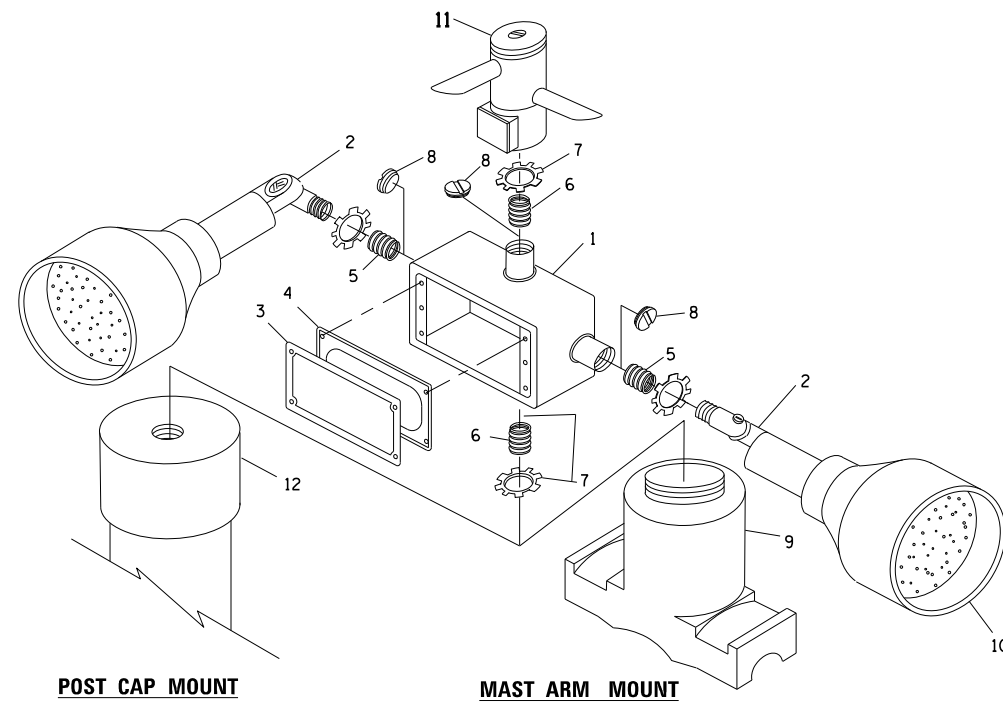
TS SHT NO. 5



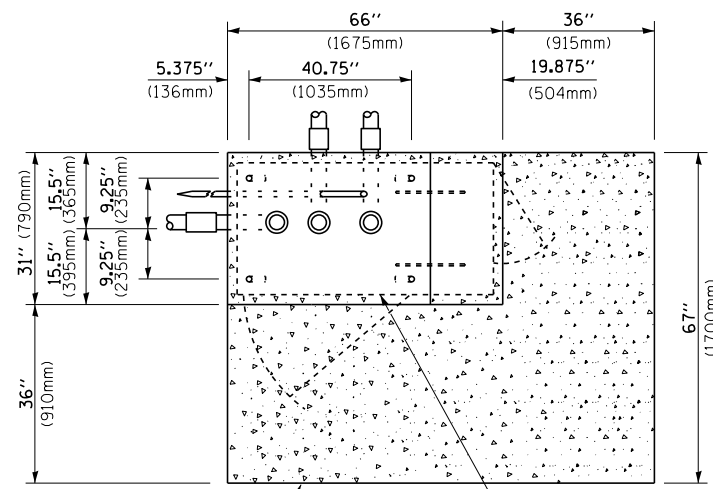
NOTES:

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.

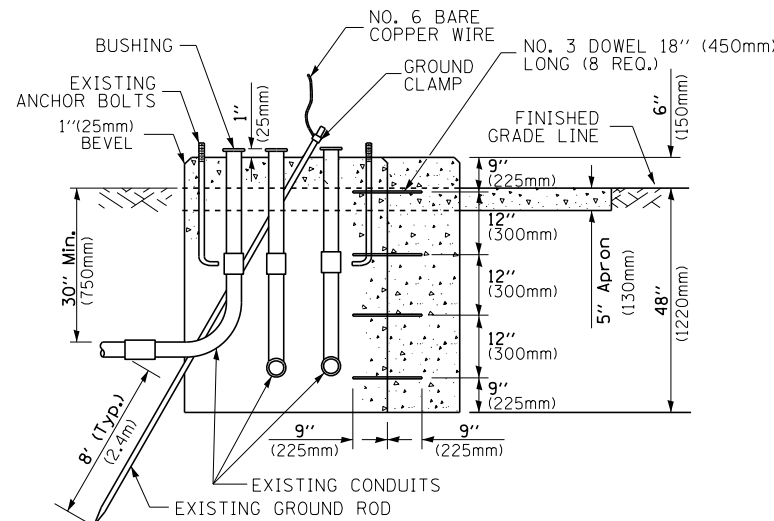
HANDHOLE WITH MINIMUM CONDUIT DEPTH
(NOT TO SCALE)



EMERGENCY VEHICLE DETECTOR WITH CONFIRMATION BEACON MOUNTING DETAIL



TOP VIEW
(NOT TO SCALE)

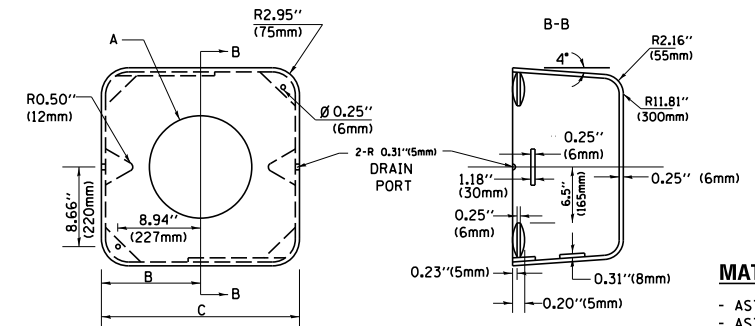


MODIFY EXISTING TYPE "D" FOUNDATION TO TYPE "C" FOUNDATION
(NOT TO SCALE)

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

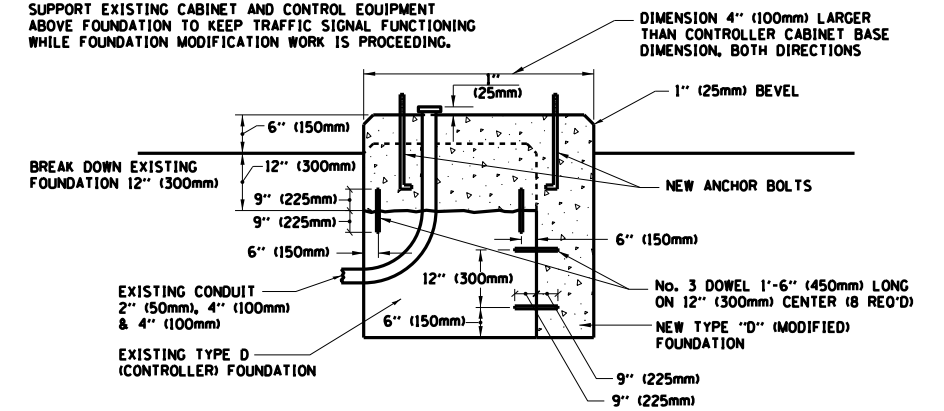
SHROUD

NOTES:

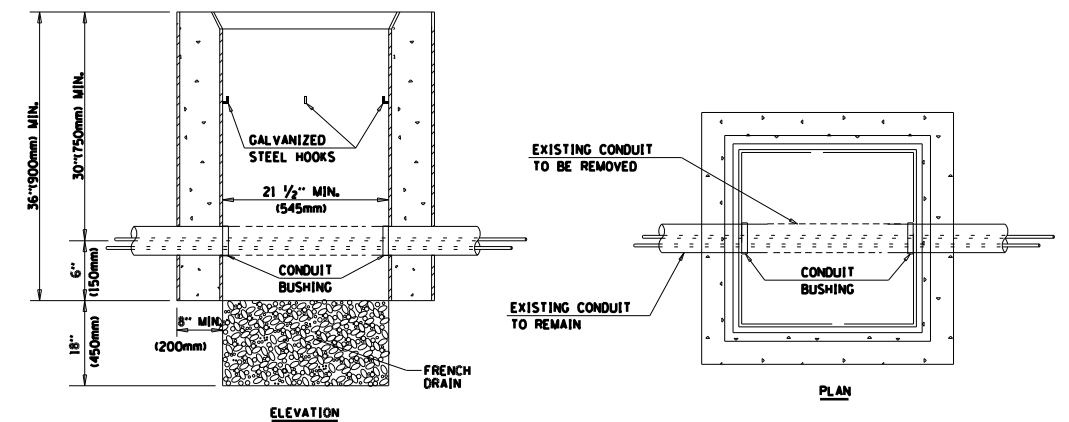
1. DIMENSION "A" IS EQUAL TO THE DIAMETER OF THE MAST ARM POLE AT THE TOP OF THE SHROUD. THE SHROUD SHALL BE TIGHT TO THE MAST ARM POLE.
2. THE SUPPLIER SHALL VERIFY THE ABOVE DIMENSIONS BASED ON MAST ARM REQUIREMENTS.
3. THE HEIGHT OF THE SHROUD SHALL COVER THE ANCHOR BOLTS, NUTS AND MAST ARM POLE BASE.

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

TS SHT NO. 6

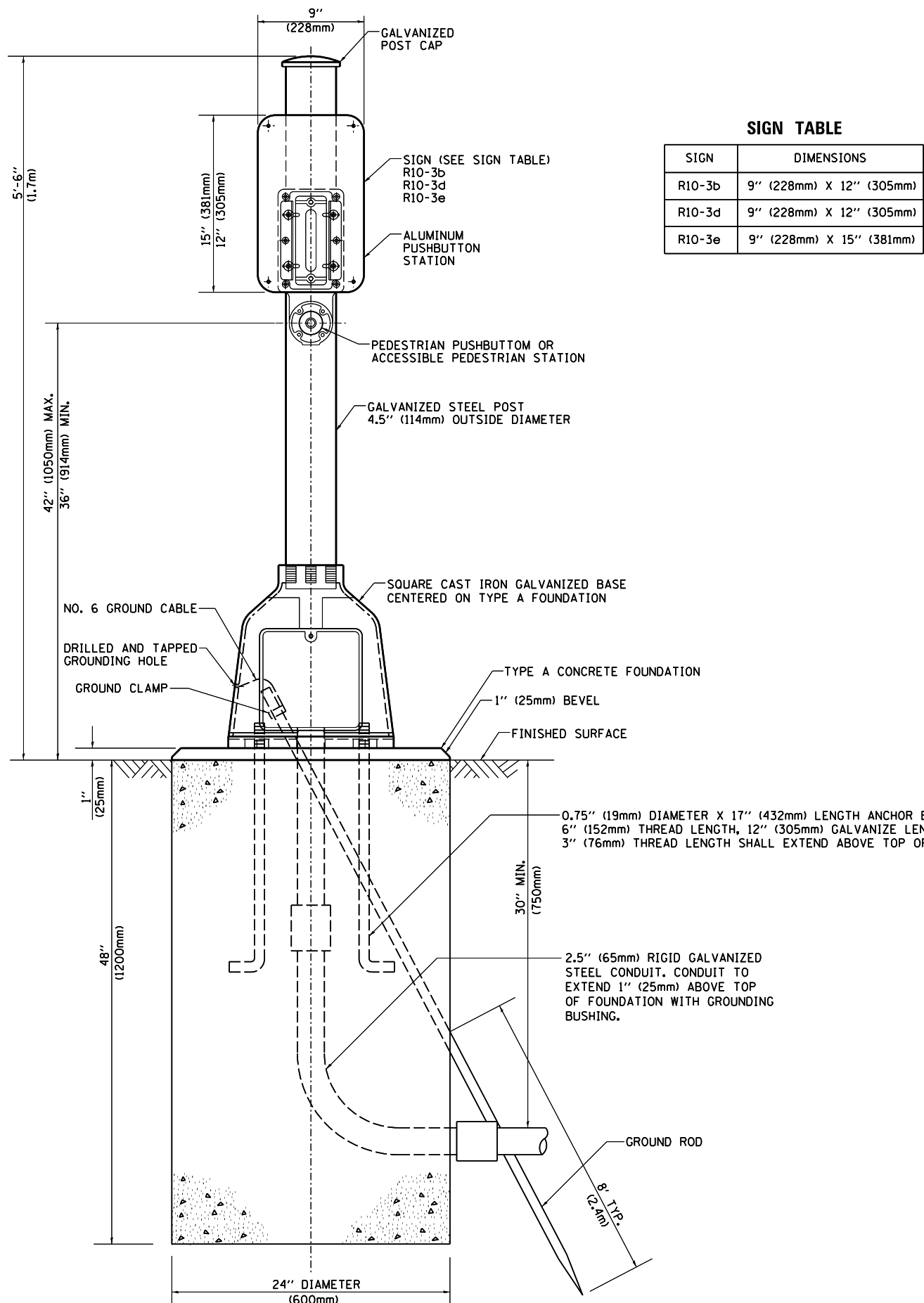
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	PLOT SCALE = 100.0000' / 1"	CHECKED - DAD	REVISED -
	PLOT DATE = 2/3/2015	DATE - 10-28-09	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DISTRICT ONE
STANDARD TRAFFIC SIGNAL DESIGN DETAILS

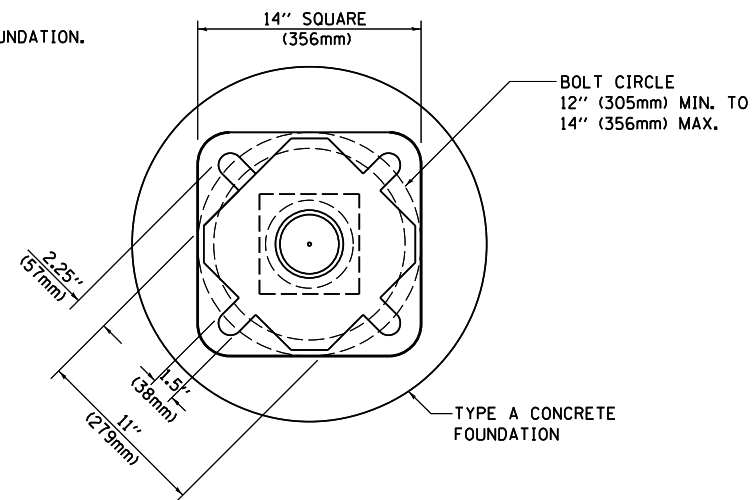
SCALE: NONE SHEET NO. 6 OF 7 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
337	19-N-2	LAKE	81	53
TS-05		CONTRACT NO. 60P06		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



SIGN TABLE

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



BOLT PATTERN

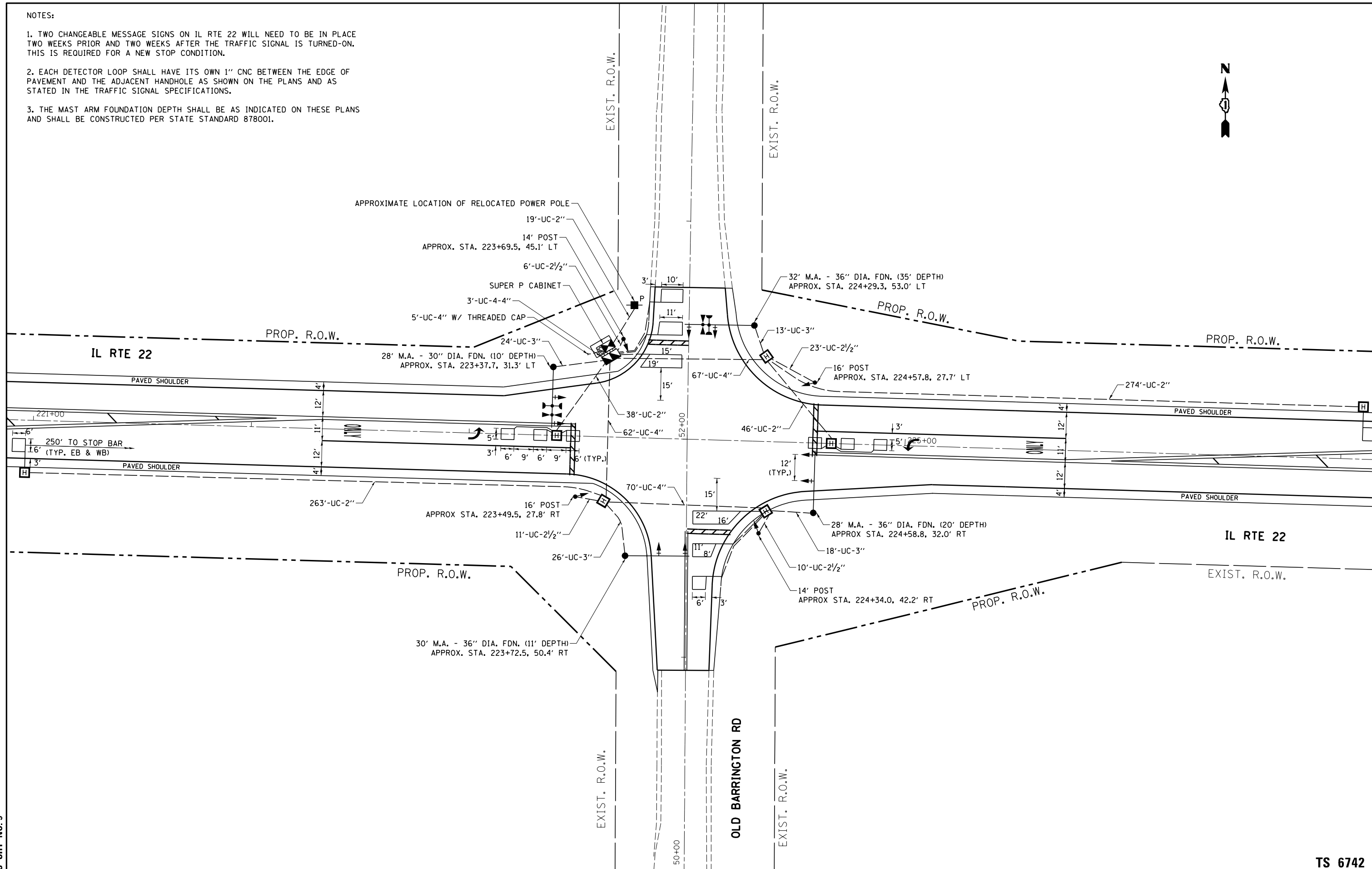
PEDESTRIAN PUSH BUTTON POST, TYPE A

TS SHT NO. 7

FILE NAME =	USER NAME = plascencia	DESIGNED - DAG	REVISED - DAG 1-1-14	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	DISTRICT ONE STANDARD TRAFFIC SIGNAL DESIGN DETAILS		F.A.P. RTE. 337	SECTION 19-N-2	COUNTY LAKE	TOTAL SHEETS 81	SHEET NO. 54	
	PLOT SCALE = 100.0000' / 1"	DRAWN - GND	REVISED -		SCALE: NONE	SHEET NO. 7 OF 7 SHEETS	STA. TO STA.	TS-05		CONTRACT NO. 60P06		
	PLOT DATE = 2/3/2015	CHECKED - DAD	REVISED -		FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT							
		DATE - 10/1/2012	REVISED -									

NOTES:

1. TWO CHANGEABLE MESSAGE SIGNS ON IL RTE 22 WILL NEED TO BE IN PLACE TWO WEEKS PRIOR AND TWO WEEKS AFTER THE TRAFFIC SIGNAL IS TURNED-ON. THIS IS REQUIRED FOR A NEW STOP CONDITION.
2. EACH DETECTOR LOOP SHALL HAVE ITS OWN 1" CNC BETWEEN THE EDGE OF PAVEMENT AND THE ADJACENT HANDHOLE AS SHOWN ON THE PLANS AND AS STATED IN THE TRAFFIC SIGNAL SPECIFICATIONS.
3. THE MAST ARM FOUNDATION DEPTH SHALL BE AS INDICATED ON THESE PLANS AND SHALL BE CONSTRUCTED PER STATE STANDARD 878001.

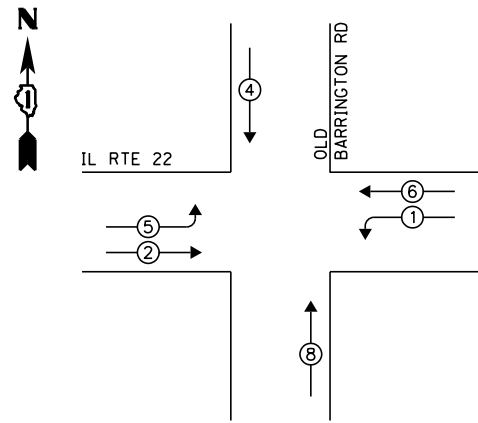


TS SHT NO. 9

TS 6742

FILE NAME =	USER NAME = plascencia	DESIGNED - IP	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	TRAFFIC SIGNAL INSTALLATION PLAN IL RTE 22 AND OLD BARRINGTON RD	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
		DRAWN - IP	REVISED -			337	19-N-2	LAKE	81	56	
		CHECKED - SM	REVISED -			CONTRACT NO. 60P06					
		DATE - 1/15/2015	REVISED -			ILLINOIS FED. AID PROJECT					
				SCALE: 1"=20'		SHEET OF SHEETS		STA. TO STA.			

PROPOSED CONTROLLER SEQUENCE

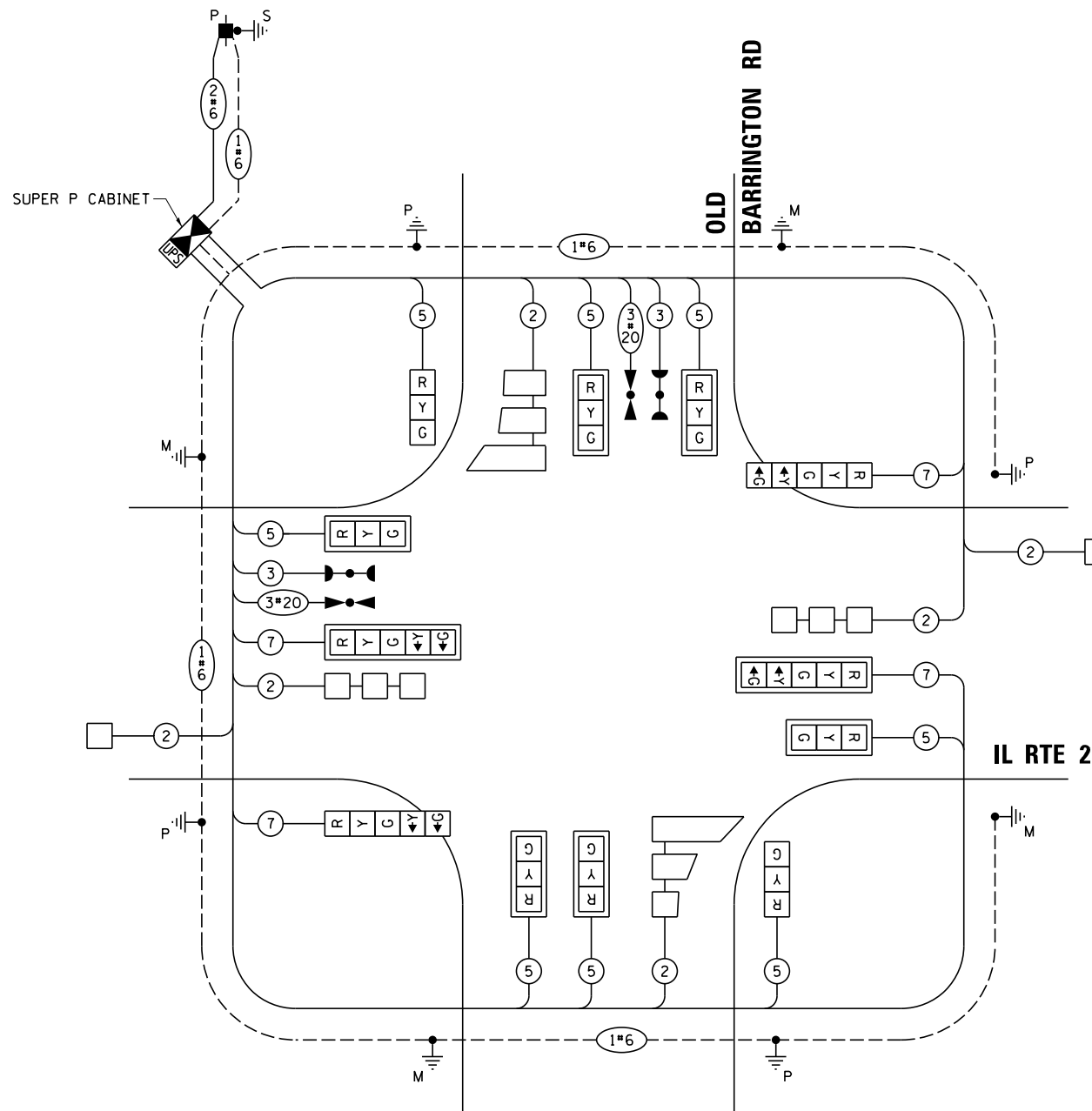
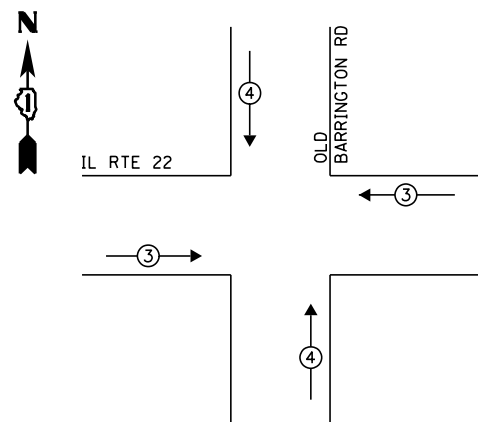


LEGEND:

- ◻ SINGLE ENTRY PHASE
- ◉ DUAL ENTRY PHASE
- ◉ PEDESTRIAN PHASE
- ◉ OVERLAP

PROPOSED PHASE DESIGNATION DIAGRAM

PROPOSED EMERGENCY VEHICLE PREEMPTION SEQUENCE



CABLE PLAN
(NOT TO SCALE)

TRAFFIC SIGNAL ELECTRICAL SERVICE REQUIREMENTS

TYPE	NO. OF LAMPS	WATTAGE		TOTAL WATTAGE
		LED	% OPERATION	
SIGNAL (RED)	12	11	0.50	66.0
(YELLOW)	12	20	0.25	60.0
(GREEN)	12	12	0.25	36.0
PERMISSIVE ARROW	8	10	0.10	8.0
PED. SIGNAL	-	20	1.00	-
CONTROLLER	1	100	1.00	100.0
UPS	1	25	1.00	25.0
VIDEO SYSTEM	-	150	1.00	-
ILLUM. SIGN	-	25	0.05	-
FLASHER	-	-	0.50	-
-	-	-	-	-
TOTAL =				295.0

ENERGY COSTS TO:

VILLAGE OF NORTH BARRINGTON
111 OLD BARRINGTON RD
NORTH BARRINGTON, IL 60010

ENERGY SUPPLY: CONTACT: DAVE SCHACHT
PHONE: (630) 437-2129
COMPANY: COMMONWEALTH EDISON
ACCOUNT NUMBER: 0081076244

TS SHT NO. 10

FILE NAME =	USER NAME = plascencia	DESIGNED - IP	REVISED -
		DRAWN - IP	REVISED -
	PLOT SCALE = 40.0000' / in.	CHECKED - SM	REVISED -
	PLOT DATE = 2/3/2015	DATE - 1/15/2015	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

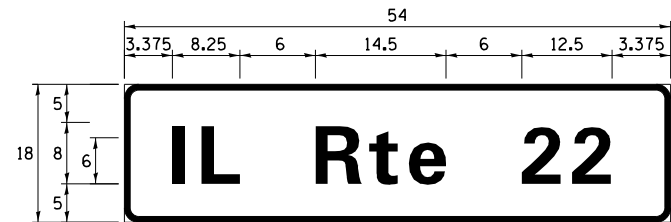
CABLE PLAN, PHASE DESIGNATION DIAGRAM,
AND EMERGENCY VEHICLE PREEMPTION SEQUENCE
IL RTE 22 AND OLD BARRINGTON RD

SCALE: SHEET OF SHEETS STA. TO STA.

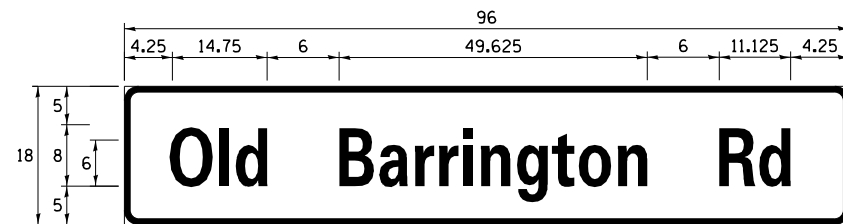
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
337	19-N-2	LAKE	81	57
CONTRACT NO. 60P06				
ILLINOIS FED. AID PROJECT				

TS 6742

SIGN PANEL – TYPE 1 OR TYPE 2



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	12.0	2	ZZ	2

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.
CHANGEABLE MESSAGE SIGN	CAL MO	2
SIGN PANEL - TYPE 1	SO FT	13.5
SIGN PANEL - TYPE 2	SO FT	24
SERVICE INSTALLATION - POLE MOUNTED	EACH	1
UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA.	FOOT	640
UNDERGROUND CONDUIT, GALVANIZED STEEL, 2 1/2" DIA.	FOOT	50
UNDERGROUND CONDUIT, GALVANIZED STEEL, 3" DIA.	FOOT	81
UNDERGROUND CONDUIT, GALVANIZED STEEL, 4" DIA.	FOOT	216
HEAVY-DUTY HANDHOLE	EACH	7
DOUBLE HANDHOLE	EACH	1
* ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	260
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	FOOT	1,210
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C	FOOT	600
ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1 PAIR	FOOT	1,175
ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2 C	FOOT	50
ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C	FOOT	530
TRAFFIC SIGNAL POST, GALVANIZED STEEL 14 FT.	EACH	2
TRAFFIC SIGNAL POST, GALVANIZED STEEL 16 FT.	EACH	2
STEEL MAST ARM ASSEMBLY AND POLE, 28 FT.	EACH	2
STEEL MAST ARM ASSEMBLY AND POLE, 30 FT.	EACH	1
STEEL MAST ARM ASSEMBLY AND POLE, 32 FT.	EACH	1
CONCRETE FOUNDATION, TYPE A	FOOT	16
CONCRETE FOUNDATION, TYPE C	FOOT	4
CONCRETE FOUNDATION, TYPE E 30-INCH DIAMETER	FOOT	10
CONCRETE FOUNDATION, TYPE E 36-INCH DIAMETER	FOOT	66
SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST-ARM MOUNTED	EACH	6
SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED	EACH	2
SIGNAL HEAD, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED	EACH	2
SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST-ARM MOUNTED	EACH	2
TRAFFIC SIGNAL BACKPLATE, LOUVERED, FORMED PLASTIC	EACH	8
INDUCTIVE LOOP DETECTOR	EACH	6
DETECTOR LOOP, TYPE I	FOOT	500
* LIGHT DETECTOR	EACH	2
* LIGHT DETECTOR AMPLIFIER	EACH	1
* EMERGENCY VEHICLE PRIORITY SYSTEM LINE SENSOR CABLE, NO. 20 3/C	FOOT	260
UNINTERRUPTABLE POWER SUPPLY, SPECIAL	EACH	1
FULL-ACTUATED CONTROLLER AND TYPE SUPER P CABINET (SPECIAL)	EACH	1

* 100% COST TO THE LAKE ZURICH FIRE DEPARTMENT

TS SHT NO. 11

TS 6742

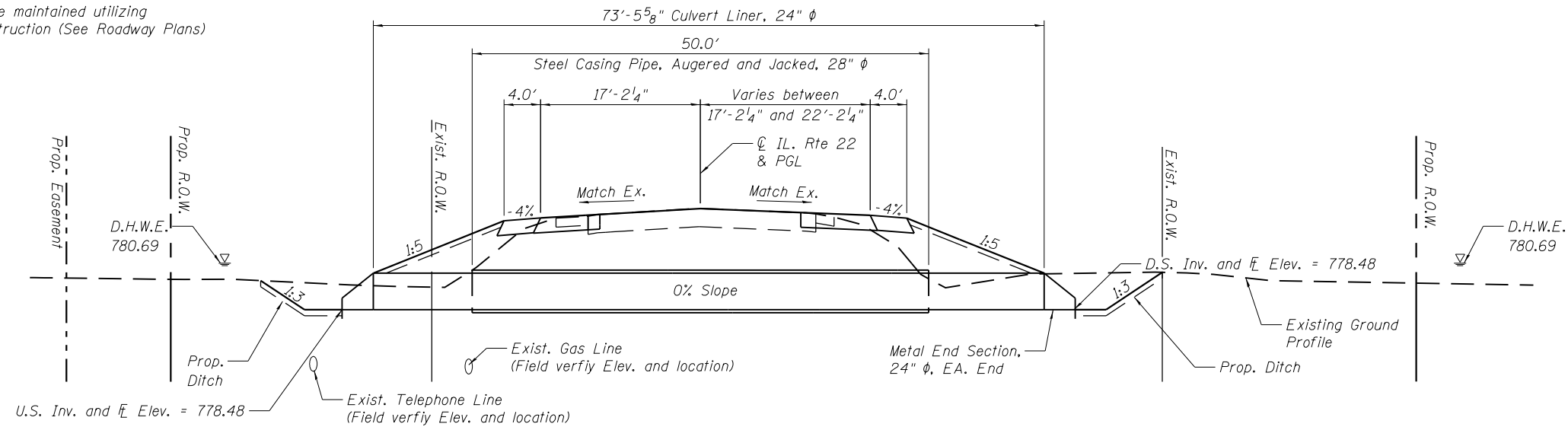
FILE NAME =	USER NAME = plascencia	DESIGNED - IP	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	MAST ARM MOUNTED STREET NAME SIGNS AND SCHEDULE OF QUANTITIES IL RTE 22 AND OLD BARRINGTON RD	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
		DRAWN - IP	REVISED -			337	19-N-2	LAKE	81	58	
		CHECKED - SM	REVISED -			CONTRACT NO. 60P06					
		DATE - 1/15/2015	REVISED -			ILLINOIS FED. AID PROJECT					
				SCALE: SHEET OF SHEETS STA. TO STA.							

Benchmark: Chiseled x in the west-most manhole of the two utility manholes located at the northeast corner of Old Barrington Rd. and Illinois Rte 22.
Sta. 52+62.9, 45.32' R, Elev. = 782.45 NAVD

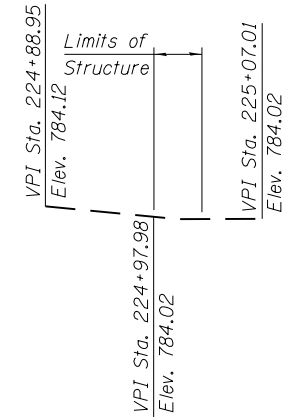
Existing Structure: 4'x2' (Approximate size) concrete box culvert with a 24" dia. CMP liner at Sta. 226+01.18. Contractor shall verify culvert type and size. Contractor shall remove existing culvert and headwalls. Work will be paid for at the contract unit price for Removal of Existing Structures.

Traffic to be maintained utilizing Staged Construction (See Roadway Plans)

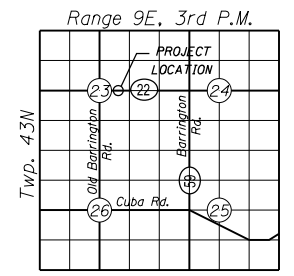
No Salvage



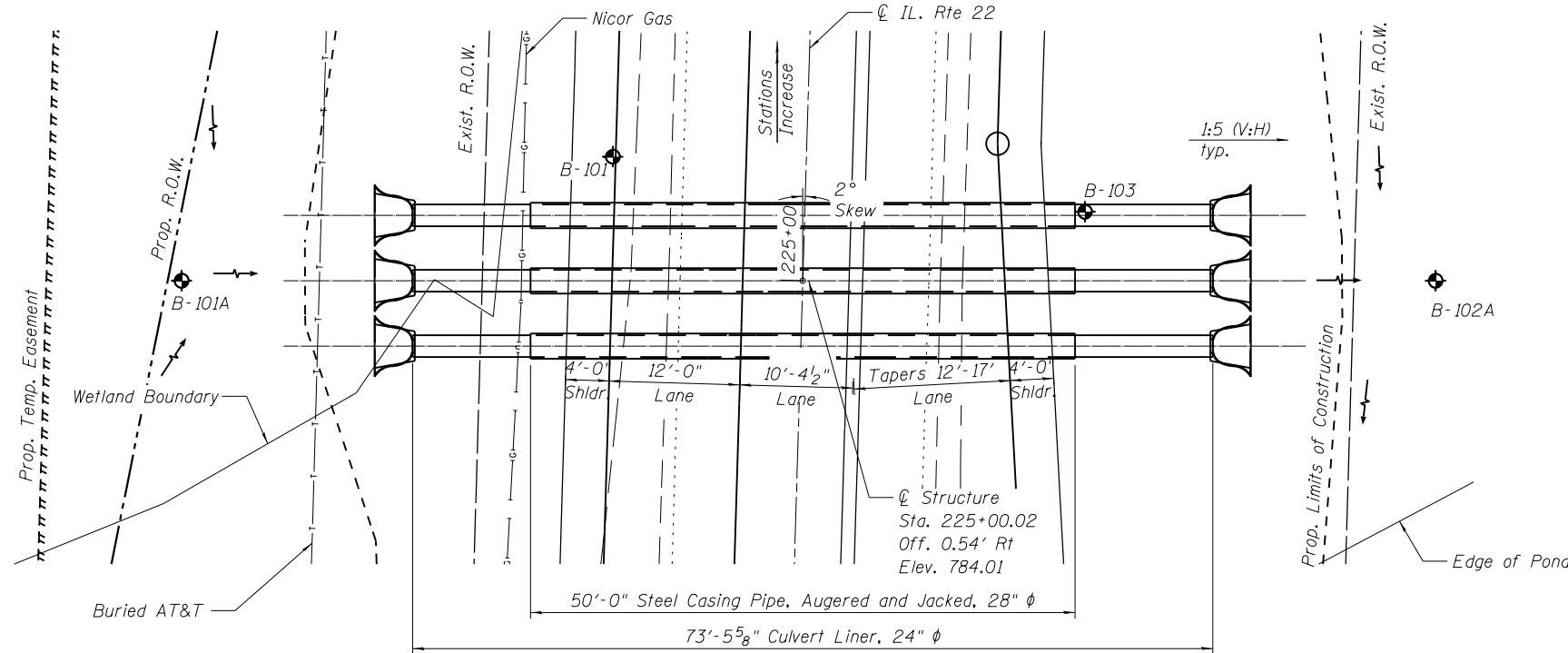
LONGITUDINAL SECTION
(Three Locations)



PROFILE
Along Centerline Roadway



LOCATION SKETCH



PLAN

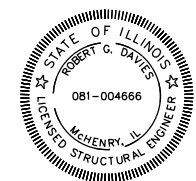
LOADING HL-93
Allow 50#/sq. ft. for future wearing surface.

DESIGN SPECIFICATIONS
2012 AASHTO LRFD Bridge
Design Specifications, w/ 2013 Interims

DESIGN STRESSES
FIELD UNITS

$f'_c = 3,500$ psi
 $f_y = 60,000$ psi (Reinforcement)

GENERAL PLAN AND ELEVATION
(F.A.P. 337) ILLINOIS ROUTE 22
AT OLD BARRINGTON ROAD
SECTION NO. 19-N-2
LAKE COUNTY
STATION 225+00.02



COMPANY NAME: HRGreen
PROJECT CONTACT: Sean Connor
CLIENT: Illinois Department of Transportation
DATE PLOTTED: 1/19/2015 3:27:42 PM
FILE NAME: P145509-sh1-GPEL.dgn
PLOT DRIVER: pdf.DET-TTF.dft
PEN TABLE: Struct I1X17.tbl



USER NAME =	DESIGNED -	REVISED
	CHECKED -	REVISED
PLOT SCALE =	DRAWN -	REVISED
PLOT DATE =	CHECKED -	REVISED

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GENERAL PLAN AND ELEVATION

SHEET NO. OF SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
337	19-N-2	LAKE	81	59
				CONTRACT NO. 60P06

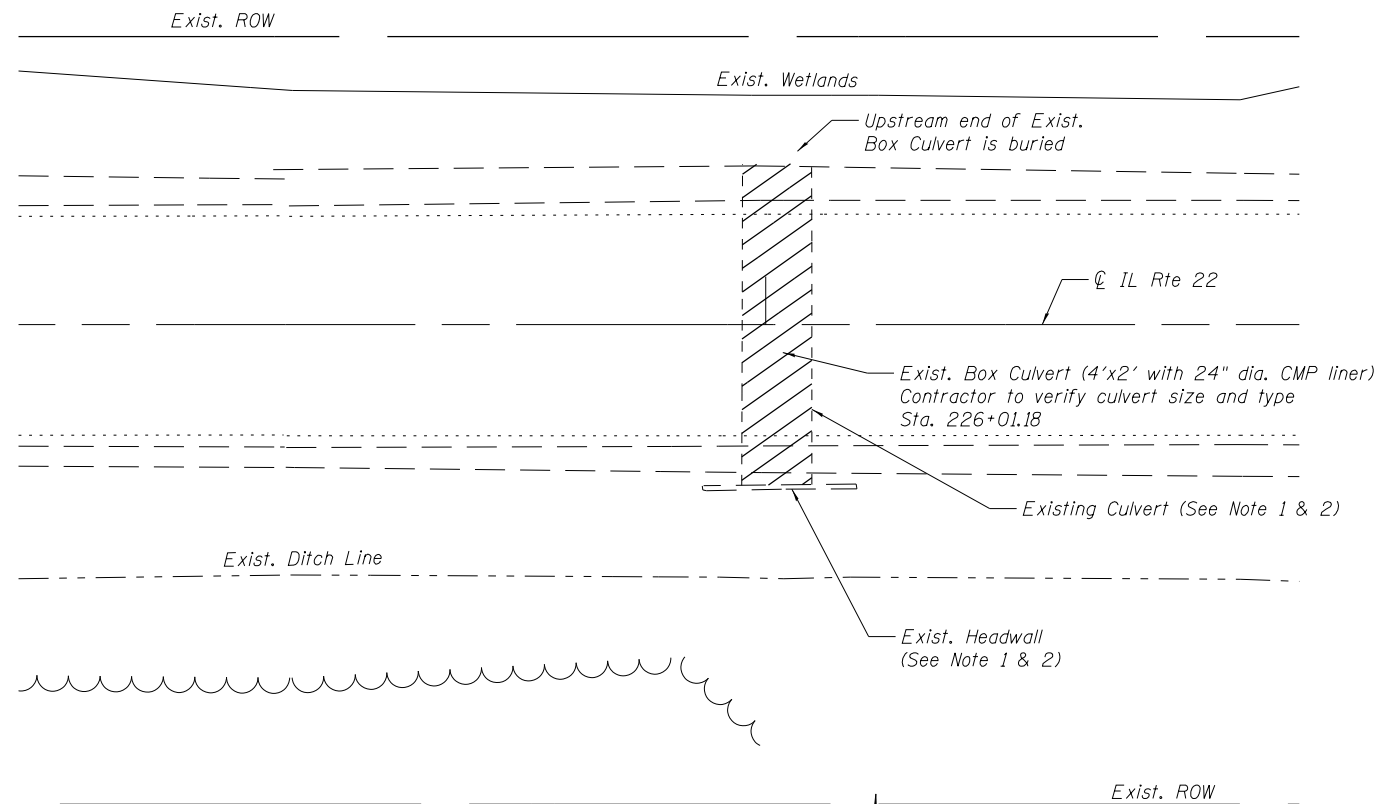
ILLINOIS FED. AID PROJECT

GENERAL NOTES CIP

- Contractor shall maintain streamflow in accordance with the Standard Specifications Article 502.
- Contractor shall verify locations and elevations of existing buried utilities prior to start of Steel Casing Pipe installation.
- See Special Provisions for all items included in unit price for Steel Casing Pipe, Augered and Jacked, 28".
- Two Geotechnical Reports are available upon request. TSC completed soil borings in October, 2013 and again in November, 2014. Only 2 of 5 boring logs from November, 2014 are included here in as the borings closest to the proposed culvert crossing of IL. Rte. 22. Additional soil boring logs are available upon request.

TOTAL BILL OF MATERIAL

ITEM	UNIT	TOTAL
Removal and Disposal of Unsuitable Material	Cu. Yd.	30
Aggregate Subgrade Improvement	Cu. Yd.	20
Removal of Existing Structures	Each	1
Metal End Section, 24"	Each	6
Insertion Culvert Liner, 24"	Foot	220.4
Steel Casing Pipe, Augered and Jacked, 28"	Foot	150
Steel Casing, 28"	Foot	150



EXISTING CULVERT DETAILS

NOTES

- Contractor may need to perform shallow excavation below ground water elevation to remove the existing culvert & headwall. Work will be paid for at the contract unit price for Removal of Existing Structures.
- The Contractor shall minimize disturbance of the existing roadway, and shoulder, and shall design and install a Temporary Soil Retention System if necessary. This work will be paid for at the contract unit price for Removal of Existing Structures. Backfill material shall be paid for as Aggregate Subgrade Improvement.
- See Roadway plans for limits of pavement removal and patching.

COMPANY NAME: HRGREEN
 PROJECT CONTACT: Sean Connor
 CLIENT: Illinois Department of Transportation
 DATE PLOTTED: 1/19/2015 3:27:50 PM
 FILE NAME: P145509-sh1-gemmate.dgn
 PLOT DRIVER: pdfLDT-TTF.dft
 PEN TABLE: Struct IN17.tbl



USER NAME =	DESIGNED -	REVISED
	CHECKED -	REVISED
PLOT SCALE =	DRAWN -	REVISED
PLOT DATE =	CHECKED -	REVISED

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**GENERAL NOTES AND BILL OF MATERIAL
STA. 225 + 00.02**

SHEET NO. OF SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
337	19-N-2	LAKE	81	60
CONTRACT NO. 60P06			ILLINOIS FED. AID PROJECT	

PROJECT **Proposed Retaining Walls, IL-22 at Old Barrington Road, Lake County, IL**
 CLIENT **HR Green, Inc., 420 North Front Street, McHenry, IL 60050**
 BORING **101** DATE STARTED **11-18-14** DATE COMPLETED **11-18-14** JOB **L-82,564**
 ELEVATIONS WATER LEVEL OBSERVATIONS
 GROUND SURFACE **783.5** WHILE DRILLING **15.5'**
 END OF BORING **743.5** AT END OF BORING **5.0'**
 24 HOURS



LENGTH RECOVERY	SAMPLE NO.	TYPE	N	WC	Qu	Y DRY	DEPTH	ELEV.	SOIL DESCRIPTIONS
							0.7	782.8	8" Crushed Stone
							3.0	780.5	FILL - Brown and black silty SAND, little gravel, trace clay, trace organic, moist (SM) SANDY LOAM A-4
	2	SS	5	34.9	0.75"		5.5	778.0	Black clayey TOPSOIL, very moist (OL) [Partial Fill] CLAY A-7-6
	3	SS	6	59.6	0.75"		8.0	775.5	Black ORGANIC CLAY, very moist (OH) CLAY A-8
	4	SS	3	37.5	-0.25"		10.5	770.5	Sample 4: LOI = 52.5%, Wet = 41.8% Black and dark brown PEAT, fibrous, very moist (PI) PEAT A-8
	5	SS	5	290	-0.25"		13.0	770.5	Gray ORGANIC CLAY, very moist (OH) CLAY A-8
	6	SS	6	65.8	0.37 0.25"		15.5	768.0	Firm gray silty SAND, saturated (SM) SANDY LOAM A-4
	7	SS	14	23.0			18.0	765.5	Very soft to soft gray silty CLAY, trace sand, trace organic, very moist (CL/CH) CLAY A-7-6
	8	SS	1	40.4	0.25"		23.0	760.5	Firm gray SAND, trace silt and gravel, saturated (SP-SM) SAND A-1-b
	9	SS	2	38.9	0.50 0.5"		25.5	757.5	Hard to very tough gray silty CLAY, little sand and gravel, moist (CL) CLAY LOAM A-6
	10	SS	10	23.9			30.0		
	11	SS	14	16.9	4.5"		35.0		
	12	SS	18	16.9	3.34 3.25"		40.0		
	13	SS	21	16.9	2.5"				

DRILL RIG NO. **315** End of Boring at 40.0'

PROJECT **Proposed Retaining Walls, IL-22 at Old Barrington Road, Lake County, IL**
 CLIENT **HR Green, Inc., 420 North Front Street, McHenry, IL 60050**
 BORING **103** DATE STARTED **12-1-14** DATE COMPLETED **12-1-14** JOB **L-82,564**
 ELEVATIONS WATER LEVEL OBSERVATIONS
 GROUND SURFACE **780.5** WHILE DRILLING **1.0'**
 END OF BORING **740.5** AT END OF BORING **1.0'**
 24 HOURS



LENGTH RECOVERY	SAMPLE NO.	TYPE	N	WC	Qu	Y DRY	DEPTH	ELEV.	SOIL DESCRIPTIONS
	1	SS	WOH	79.9	-0.25"		1.0	779.5	Black clayey TOPSOIL, very moist (OL)
	2	SS	WOH	232	0.43 0.25"		3.0	777.5	Brown ORGANIC CLAY, very moist (OH) CLAY A-8
	3	SS	WOH	188	-0.37 -0.25"		5.0	772.5	Sample 2: LOI = 24.8% Dark brown PEAT, fibrous, very moist (PI) PEAT A-8
	4	SS	WOH	52.6	-0.25"		8.0	772.5	Gray ORGANIC CLAY, very moist (OH) CLAY A-8
	5	SS	10	18.1	2.5"		10.5	770.0	Very tough to hard gray silty CLAY, little sand and gravel, occasional Cobbles, moist (CL) CLAY A-6
	6	SS	16	18.3	5.06 4.5"		15.0	762.5	Dense gray clayey SILT, wet (CL-ML) SILTY LOAM A-4 LL/PL/PI = 19/12/6
	7	SS	43	14.4	2.5"		18.0	760.0	Very dense gray SAND, little gravel, occasional Cobbles, saturated (SP) SAND A-1-5
	8	SS	34	16.2			20.5	757.5	Dense gray silty SAND and GRAVEL, wet (SM/GM) SAND A-2-4
	9	SS	60				23.0	753.5	Dense gray sandy SILT, wet (ML) SILTY LOAM A-4
	10	SS	35	11.0			27.0	748.5	Tough gray silty CLAY, little sand and gravel, occasional sand seams, very moist to moist (CL) CLAY LOAM A-6
	11	SS	40	19.5					
	12	SS	33	17.4	1.5"				
	13	SS	30	13.7	1.75"				

DRILL RIG NO. **262** End of Boring at 40.0'

PROJECT **Culvert Replacement, IL Rte 22 (Sta. 225+31), North Barrington, Illinois**
 CLIENT **HR Green, Inc., McHenry, Illinois**
 BORING **101(A)** DATE STARTED **10-10-13** DATE COMPLETED **10-10-13** JOB **L-80,845A**
 ELEVATIONS WATER LEVEL OBSERVATIONS
 GROUND SURFACE **780.0** WHILE DRILLING **3.0'**
 END OF BORING **765.0** AT END OF BORING **2.0'**
 24 HOURS



LENGTH RECOVERY	SAMPLE NO.	TYPE	N	WC	Qu	Y DRY	DEPTH	ELEV.	SOIL DESCRIPTIONS
							0		FILL - Sandy TOPSOIL (CL)
	1	SS	HA	30.7	1.0"	92	1.1	778.9	FILL - Brown, black and gray silty CLAY, trace sand, trace organic, very moist (CL/CH) A-7-5 CLAY
	2	SS	HA	128	0.5"		2.0	778.0	Black ORGANIC CLAY, very moist (OH) A-8 CLAY
	3	SS	HA	382	0.25"		3.0	777.0	Dark brown and black PEAT, very moist (PI) A-8 CLAY
	4	SS	HA	220	0.25"		10.5	769.5	Dark brown ORGANIC CLAY, very moist (OH) A-8 CLAY
	5	SS	HA	86.6	0.37 0.25"		13.0	767.0	Gray silty fine SAND, wet (SM) A-2-4 SANDY LOAM
	6	SS	HA	18.6			15.0	767.0	End of Boring at 15.0'

DRILL RIG NO. **HA** End of Boring at 15.0'

PROJECT **Culvert Replacement, IL Rte 22 (Sta. 225+31), North Barrington, Illinois**
 CLIENT **HR Green, Inc., McHenry, Illinois**
 BORING **102 (A)** DATE STARTED **10-10-13** DATE COMPLETED **10-10-13** JOB **L-80,845A**
 ELEVATIONS WATER LEVEL OBSERVATIONS
 GROUND SURFACE **780.5** WHILE DRILLING **1.0'**
 END OF BORING **770.5** AT END OF BORING **1.5'**
 24 HOURS



LENGTH RECOVERY	SAMPLE NO.	TYPE	N	WC	Qu	Y DRY	DEPTH	ELEV.	SOIL DESCRIPTIONS
							0		Black Sandy TOPSOIL (OL)
	1	SS	HA	112	0.25"		1.2	779.3	Black and dark brown ORGANIC CLAY, very moist (OH) A-8 CLAY
	2	SS	HA	94.6	0.25"		5.5	775.0	Soft gray silty CLAY, little sand, trace gravel, very moist (CL) A-6 CLAY
	3	SS	HA	23.5	0.5"		8.0	772.5	Med stiff to stiff gray silty CLAY, little sand, trace gravel, very moist (CL) A-6 CLAY
	4	SS	HA	21.4	1.0"				End of Boring at 10.0'

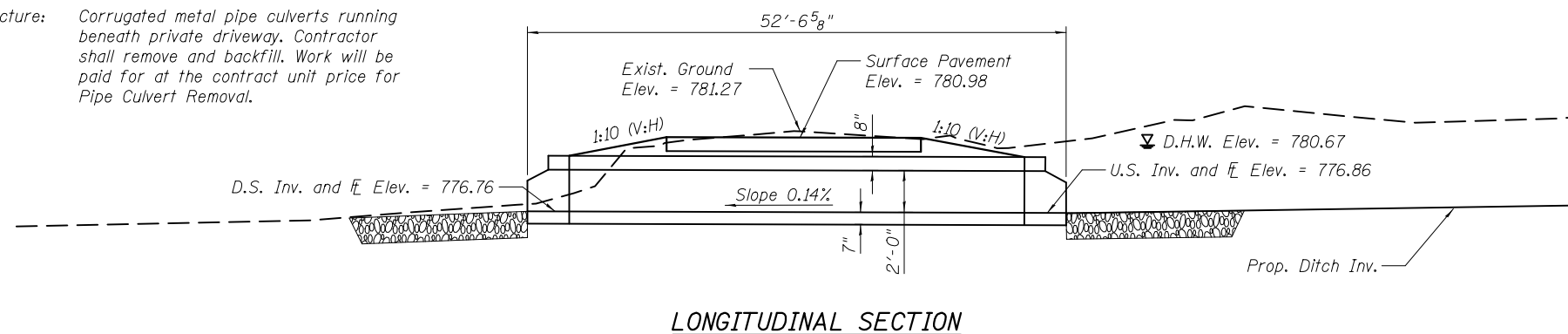
DRILL RIG NO. **HA** End of Boring at 10.0'

Benchmark: Chiseled x in the west of the two utility manholes located at the northeast corner of Old Barrington Rd. and Illinois Rte 22. Sta. 52+62.9, 45.32'R - Elev. = 782.45 NAVD

Driveway access to be maintained during construction. Coordinate Culvert Construction with Traffic Staging for IL Route 22 Improvements.

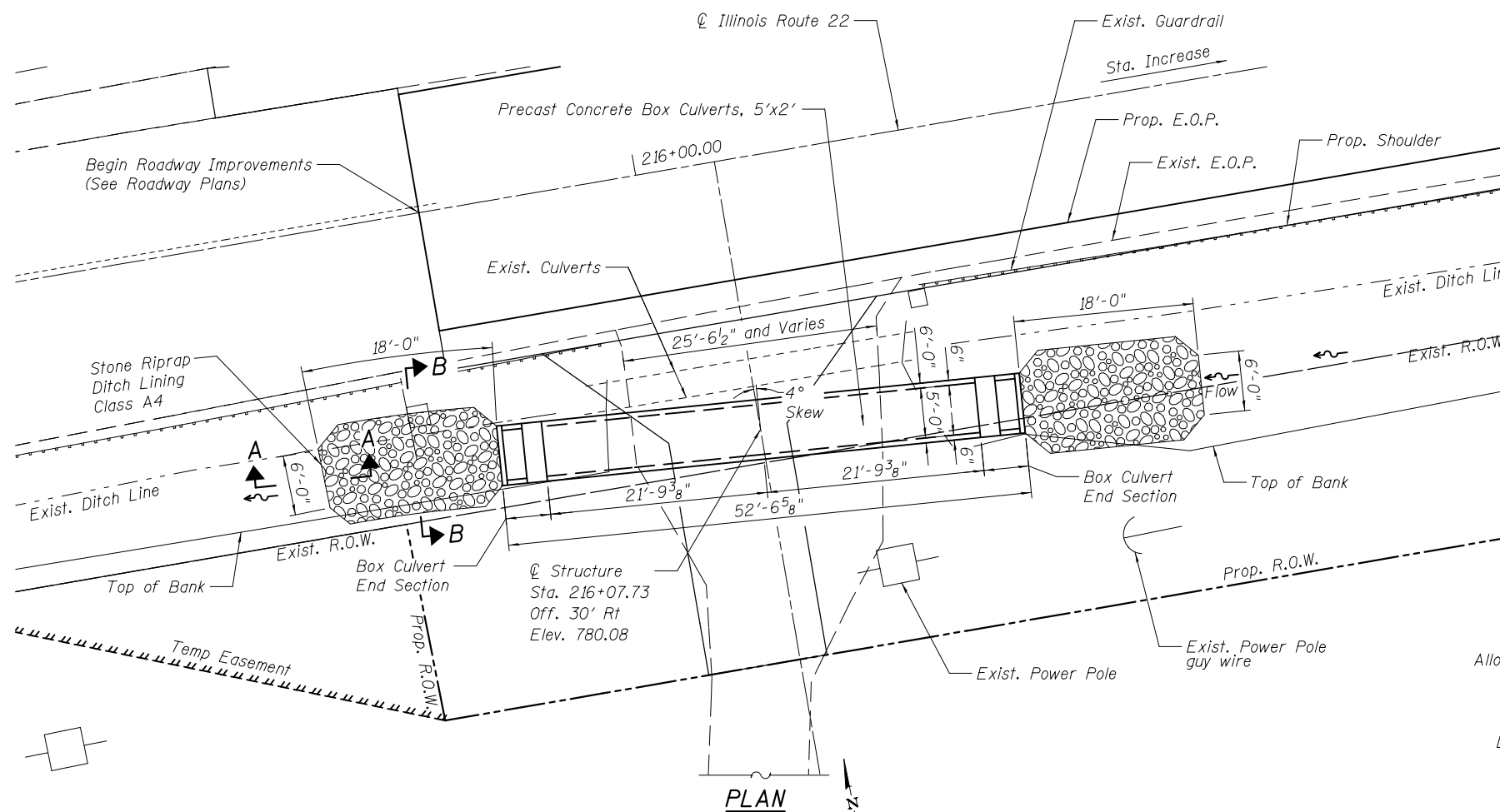
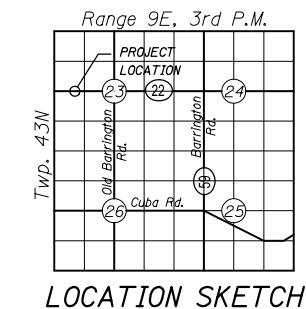
Existing Structure: Corrugated metal pipe culverts running beneath private driveway. Contractor shall remove and backfill. Work will be paid for at the contract unit price for Pipe Culvert Removal.

No Salvage



WATERWAY INFORMATION

Flood	Freq. Yr.	Q C.F.S.	Opening Sq. Ft.		Not. H.W.E.	Head - Ft.		Headwater El.	
			Exist.	Prop.		Exist.	Prop.	Exist.	Prop.
Design	50	73.3	4.9	10	779.37	1.89	1.32	781.26	780.69
Base	100	112.0	4.9	10	779.51	1.98	1.70	781.49	781.21
Overtopping		Ex-30.83/50 Pr-76.04/96.0							
Max. Calc.	500	252.9	4.9	10	780.62	1.51	1.35	782.13	781.97



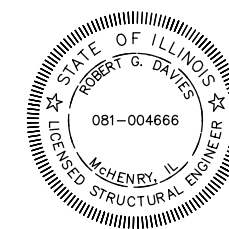
LOADING HL-93
Allow 50#/sq. ft. for future wearing surface.

DESIGN SPECIFICATIONS
2012 AASHTO LRFD Bridge
Design Specifications, w/ 2013 Interims

DESIGN STRESSES
PRECAST UNITS

$f'_c = 5,000 \text{ psi}$
 $f_y = 65,000 \text{ psi (Welded Wire Fabric)}$

GENERAL PLAN AND ELEVATION
(F.A.U. 337) ILLINOIS ROUTE 22
AT PRIVATE DRIVEWAY
OVER ROADSIDE DITCH
SECTION NO. 19-N-2
LAKE COUNTY
STATION 216+07.73



COMPANY NAME: Sean Connor
PROJECT CONTACT: Illinois Department of Transportation
CLIENT: 1/28/2015 2:46:03 PM
DATE PLOTTED: P145509-shr-driveway_GPE.dgn
FILE NAME: I1X17.pdf
PLOT DRIVER: I1X17.pdf
PEN TABLE: Struct I1X17.tbl



USER NAME =	DESIGNED -	REVISED
	CHECKED -	REVISED
PLOT SCALE =	DRAWN -	REVISED
PLOT DATE =	CHECKED -	REVISED

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GENERAL PLAN AND ELEVATION

SHEET NO. OF SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
337	19-N-2	LAKE	81	62
CONTRACT NO. 60P06			ILLINOIS FED. AID PROJECT	

GENERAL NOTES - PRECAST

- Precast concrete culverts, 5'x2' shall conform to the requirements of Article 540.06 of the Standard Specifications and the applicable requirements of AASHTO M 273 and ASTM C1577-14.

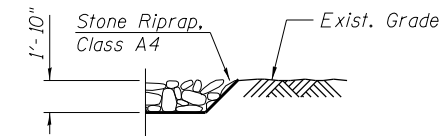
The minimum precast concrete strength shall be 5,000 psi.

Lifting holes shall be filled with concrete plugs and mastic after box sections are in place.

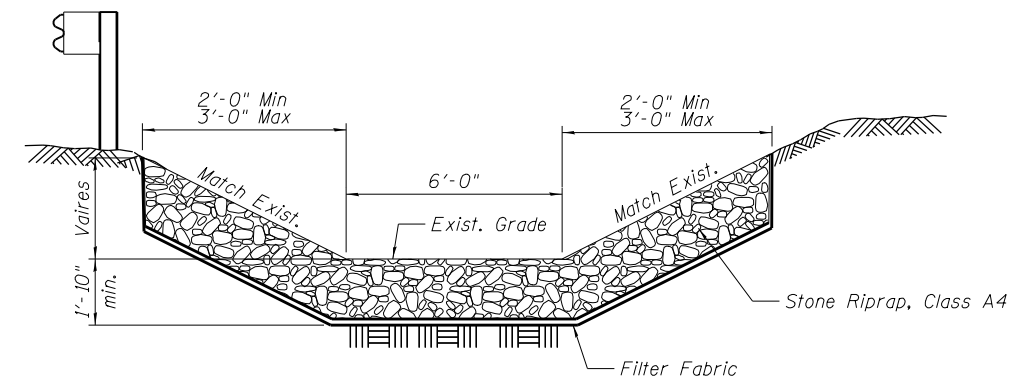
Fill is approximately 1'-0"
- BOX CULVERT END SECTIONS shall be paid for as noted in Article 540.08, and The Contract Unit Price for BOX CULVERT END SECTIONS shall include all porous granular bedding material, and the Precast End Sections.
- Contractor shall maintain ditch flow in accordance with the Standard Specifications Article 502.
- Layout of the Slope Protection System may be varied to suit ground conditions in the field as directed by the Engineer.
- BOX CULVERT END SECTIONS shall be precast concrete. Shop drawings for the end sections shall be submitted in accordance with Article 540.06.

TOTAL BILL OF MATERIAL

ITEM	UNIT	TOTAL
Removal and Disposal of Unsuitable Material	Cu. Yd.	9.3
Aggregate Subgrade Improvement	Cu. Yd.	9.3
Stone Riprap, Class A4	Sq. Yd.	44
Filter Fabric	Sq. Yd.	44
Pipe Culvert Removal	Foot	72
Box Culvert End Sections, Culvert No. 1	Each	2
Precast Concrete Box Culverts 5'x2'	Foot	44



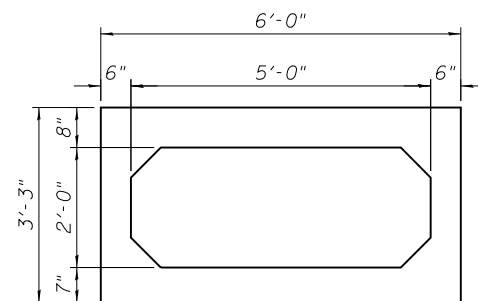
SECTION A-A



SECTION B-B

**PRECAST BARREL
REQUIRED AASHTO STEEL AREAS (in²/ft)**

A _{s1}	0.19	A _{s5}	0.19
A _{s2}	0.27	A _{s6}	0.19
A _{s3}	0.18	A _{s7}	0.19
A _{s4}	0.14	A _{s8}	0.17



SECTION THRU PRECAST BARREL

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 PROJECT CONTACT: Sean Connor
 CLIENT: Illinois Department of Transportation
 DATE PLOTTED: 1/19/2015 3:28:29 PM
 FILE NAME: P145509-sh1-gennare02.dgn
 PLOT DRIVER: pdfLDT-TTF.dft
 PEN TABLE: Struct_11x17.tbl



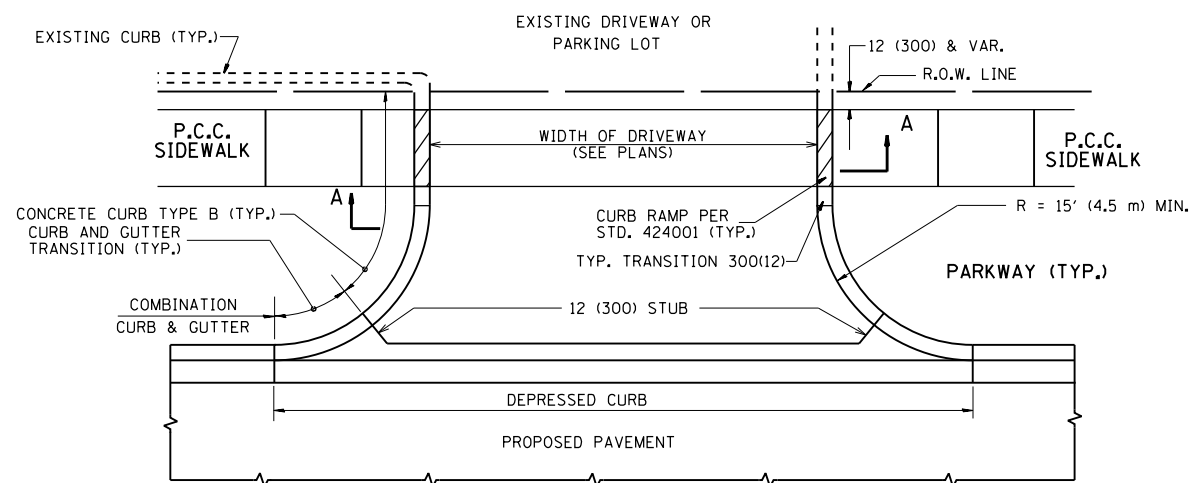
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PLOT DATE =	CHECKED -	REVISED

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

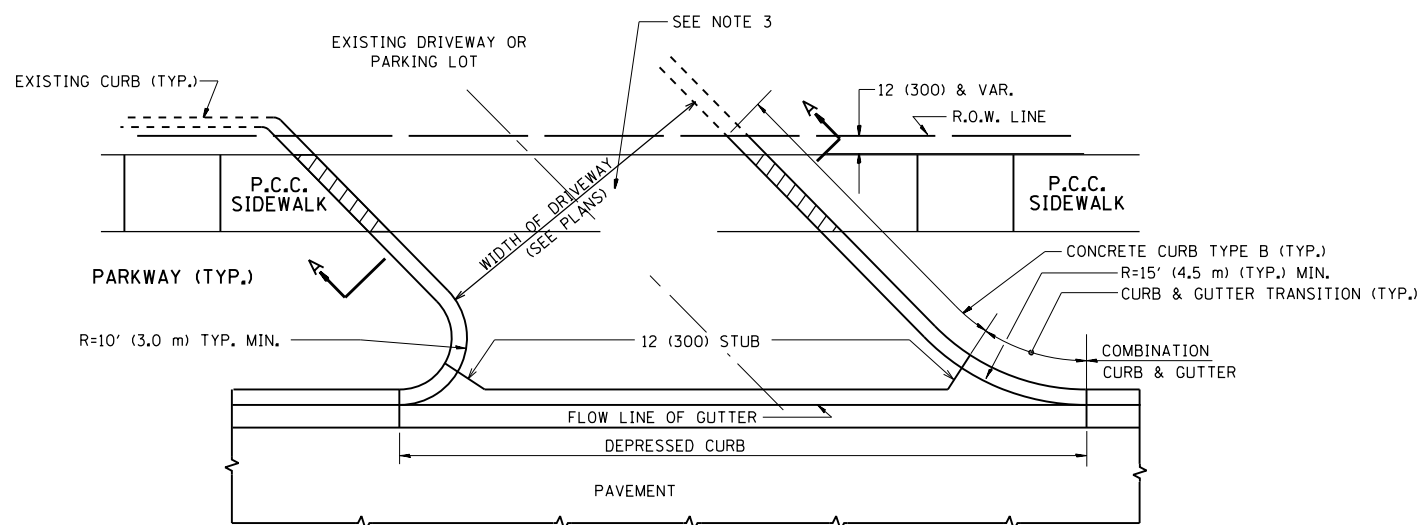
**GENERAL NOTES AND BILL OF MATERIAL
STA 216+07.73**

SHEET NO. OF SHEETS

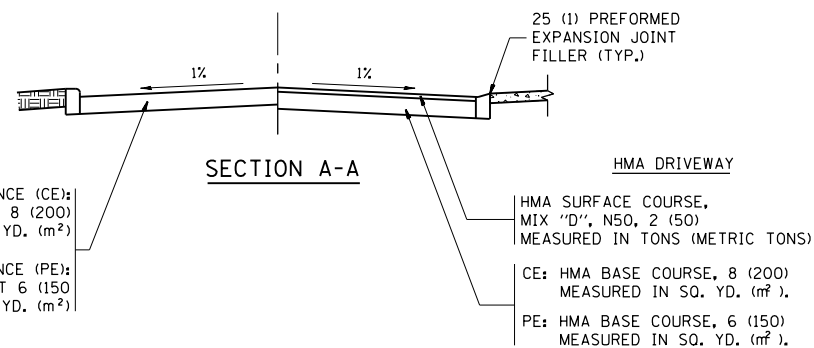
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
337	19-N-2	LAKE	81	63
CONTRACT NO. 60P06				
ILLINOIS FED. AID PROJECT				



WITH CONCRETE CURB, TYPE B

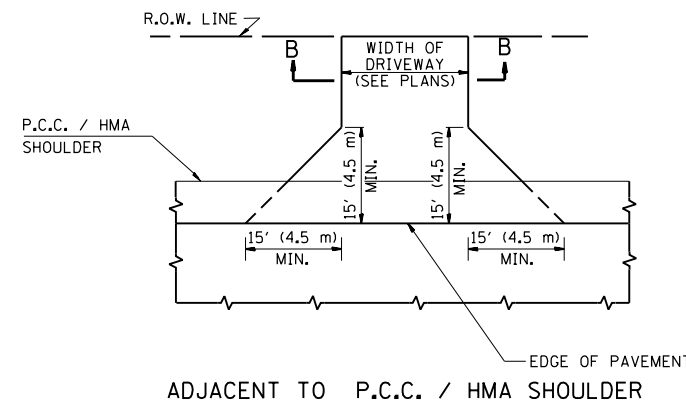


WITH CONCRETE CURB, TYPE B

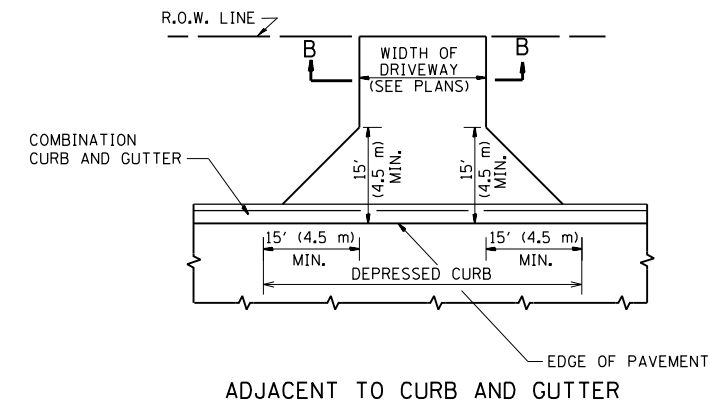


RIGID DRIVEWAY
 COMMERCIAL ENTRANCE (CE):
 P.C.C. DRIVEWAY PAVEMENT 8 (200)
 MEASURED IN SQ. YD. (m²)
 NON-COMMERCIAL ENTRANCE (PE):
 P.C.C. DRIVEWAY PAVEMENT 6 (150)
 MEASURED IN SQ. YD. (m²)

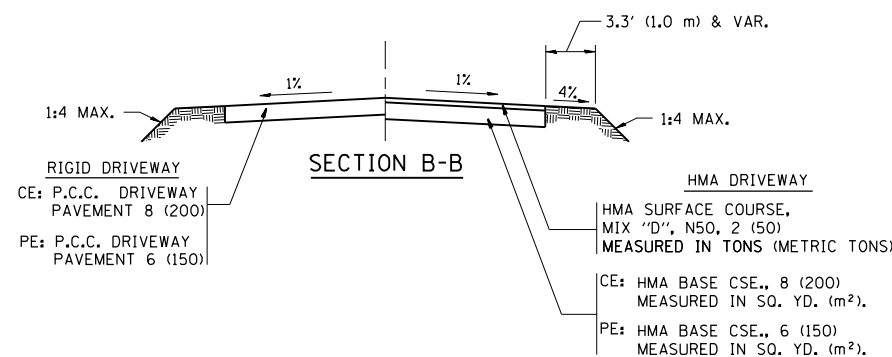
HMA DRIVEWAY
 HMA SURFACE COURSE,
 MIX "D", N50, 2 (50)
 MEASURED IN TONS (METRIC TONS)
 CE: HMA BASE COURSE, 8 (200)
 MEASURED IN SQ. YD. (m²),
 PE: HMA BASE COURSE, 6 (150)
 MEASURED IN SQ. YD. (m²).



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.

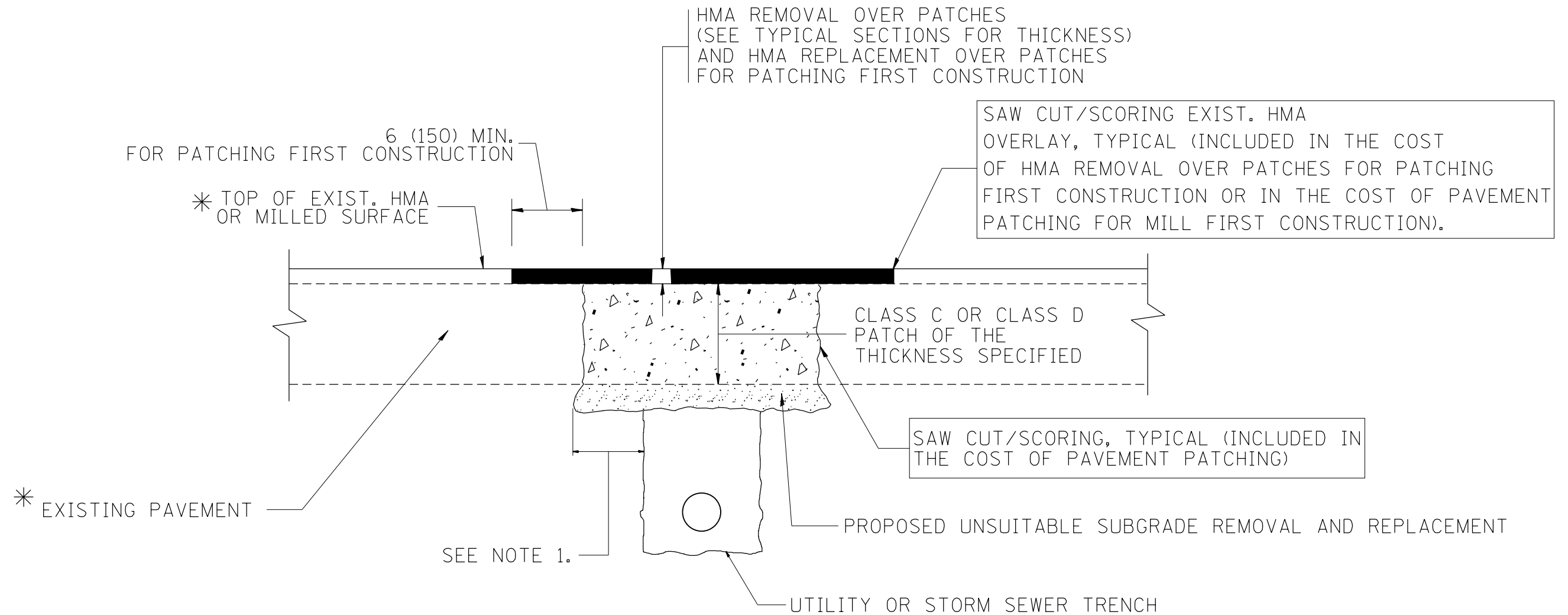
WHEN THE P.C.C. SIDEWALK EXTENDS THROUGH THE DRIVEWAY, THE THICKNESS OF THE SIDEWALK IN THE DRIVEWAY AREA SHALL BE THE SAME AS THE DRIVEWAY THICKNESS. SIDEWALK WILL BE PAID FOR AS P.C.C. SIDEWALK OF THE THICKNESS SPECIFIED. SIDEWALK CROSS SLOPE THRU DRIVEWAY AREA TO BE A MAXIMUM OF 1:50.

FILE NAME =	USER NAME = Velichkovv	DESIGNED - R. SHAH	REVISED - P. LaFLUER 04-15-03
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	PLOT DATE = 2/10/2015	DATE - 11-04-95	REVISED - R. BORO 09-06-11

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

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

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
337	19-N-2	LAKE	81	64
BD0156-07 (BD-01)			CONTRACT NO. 60P06	
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



* SEE TYPICAL SECTIONS FOR THICKNESS AND MATERIALS

NOTES:

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

SEQUENCE OF CONSTRUCTION (PATCHING FIRST)

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

SEQUENCE OF CONSTRUCTION (MILLING FIRST)

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

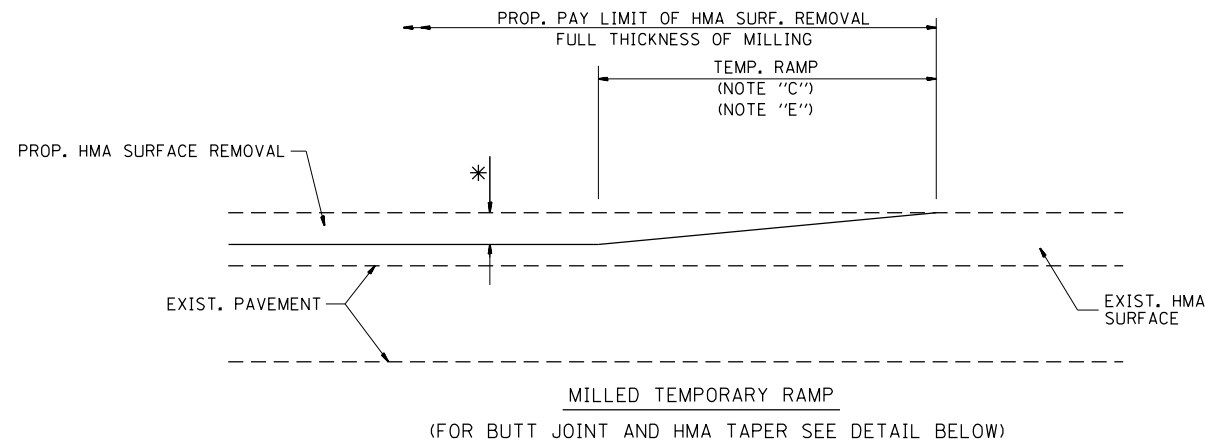
ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN.

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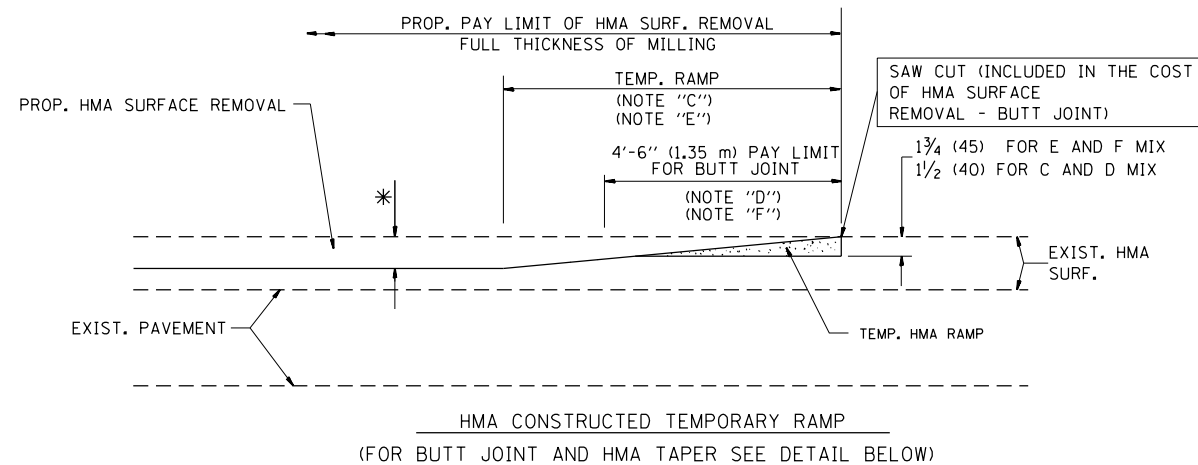
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

PAVEMENT PATCHING FOR HMA SURFACED PAVEMENT	
SCALE: NONE	SHEET NO. 1 OF 1 SHEETS
STA.	TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
337	19-N-2	LAKE	81	65
BD400-04 (BD-22)			CONTRACT NO. 60P06	
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

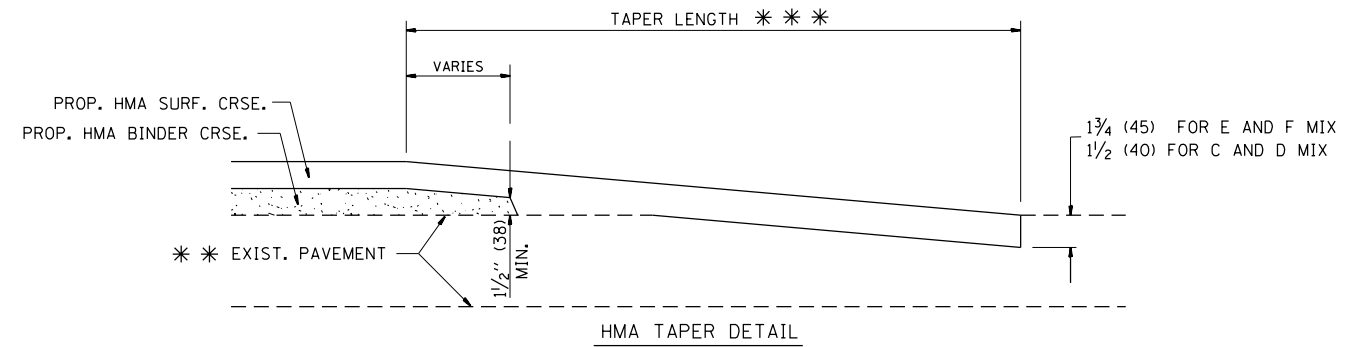
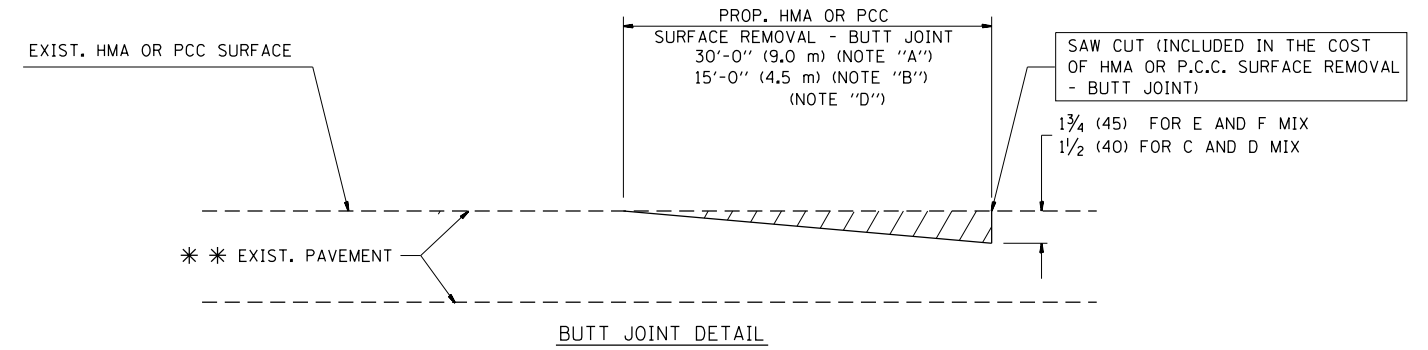


OPTION 1



OPTION 2

TYPICAL TEMPORARY RAMP



TYPICAL BUTT JOINT AND HMA TAPER FOR RESURFACING ONLY

* * PC CONCRETE, HMA OR HMA RESURFACED PAVEMENT.

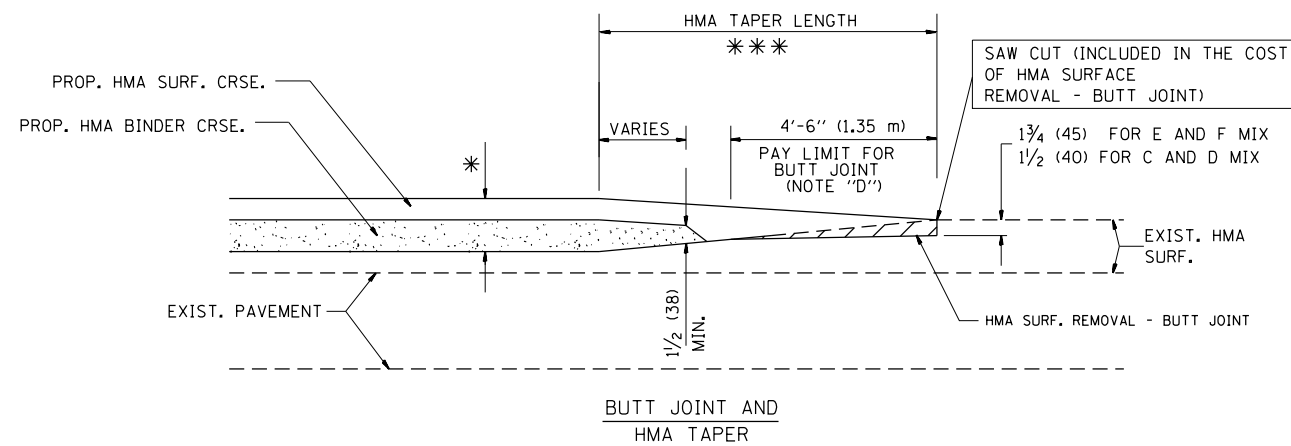
NOTES

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

BASIS OF PAYMENT:

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

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



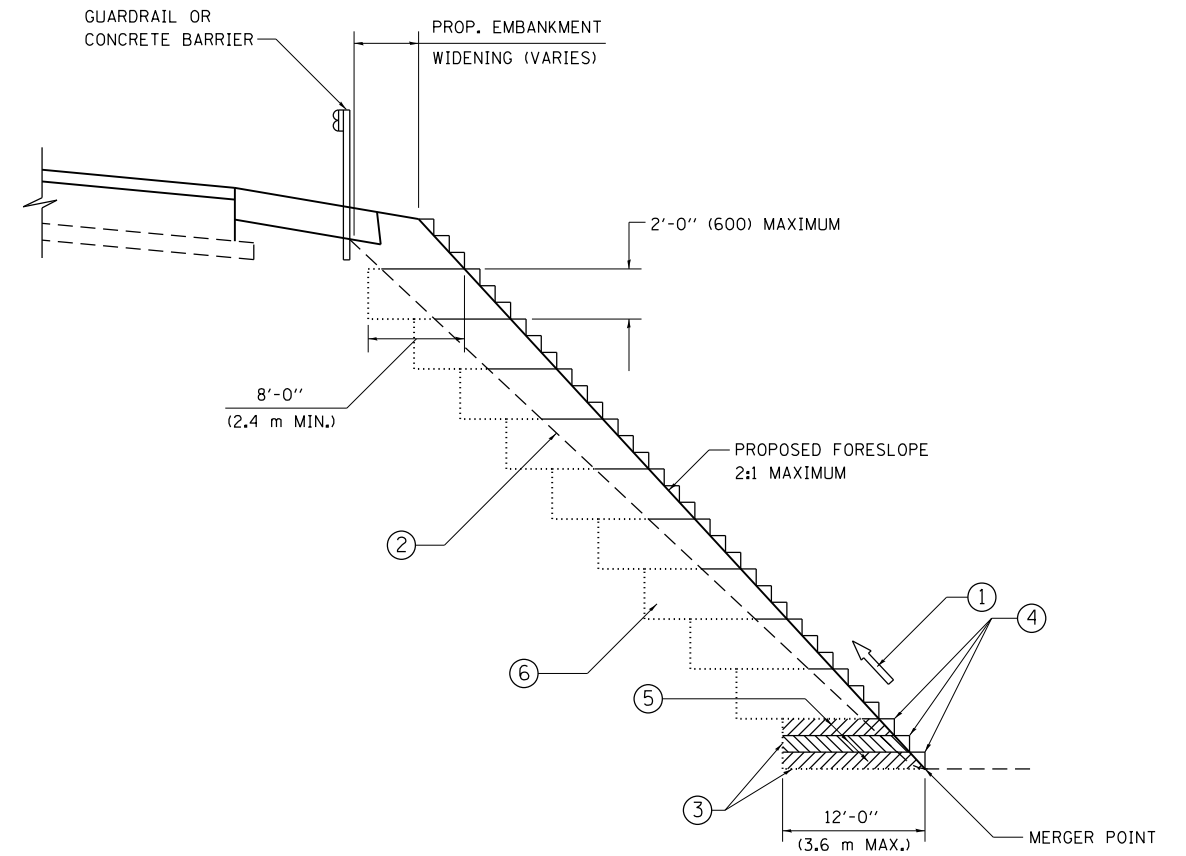
TYPICAL BUTT JOINT AND HMA TAPER FOR MILLING AND RESURFACING

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	PLOT DATE = 2/10/2015	DATE - 06-13-90	REVISED - R. BORO 01-01-07

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

BUTT JOINT AND HMA TAPER DETAILS	
SCALE: NONE	SHEET NO. 1 OF 1 SHEETS
STA.	TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
337	19-N-2	LAKE	81	66
BD400-05 BD32			CONTRACT NO. 60P06	
FED. ROAD DIST. NO. 1 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).

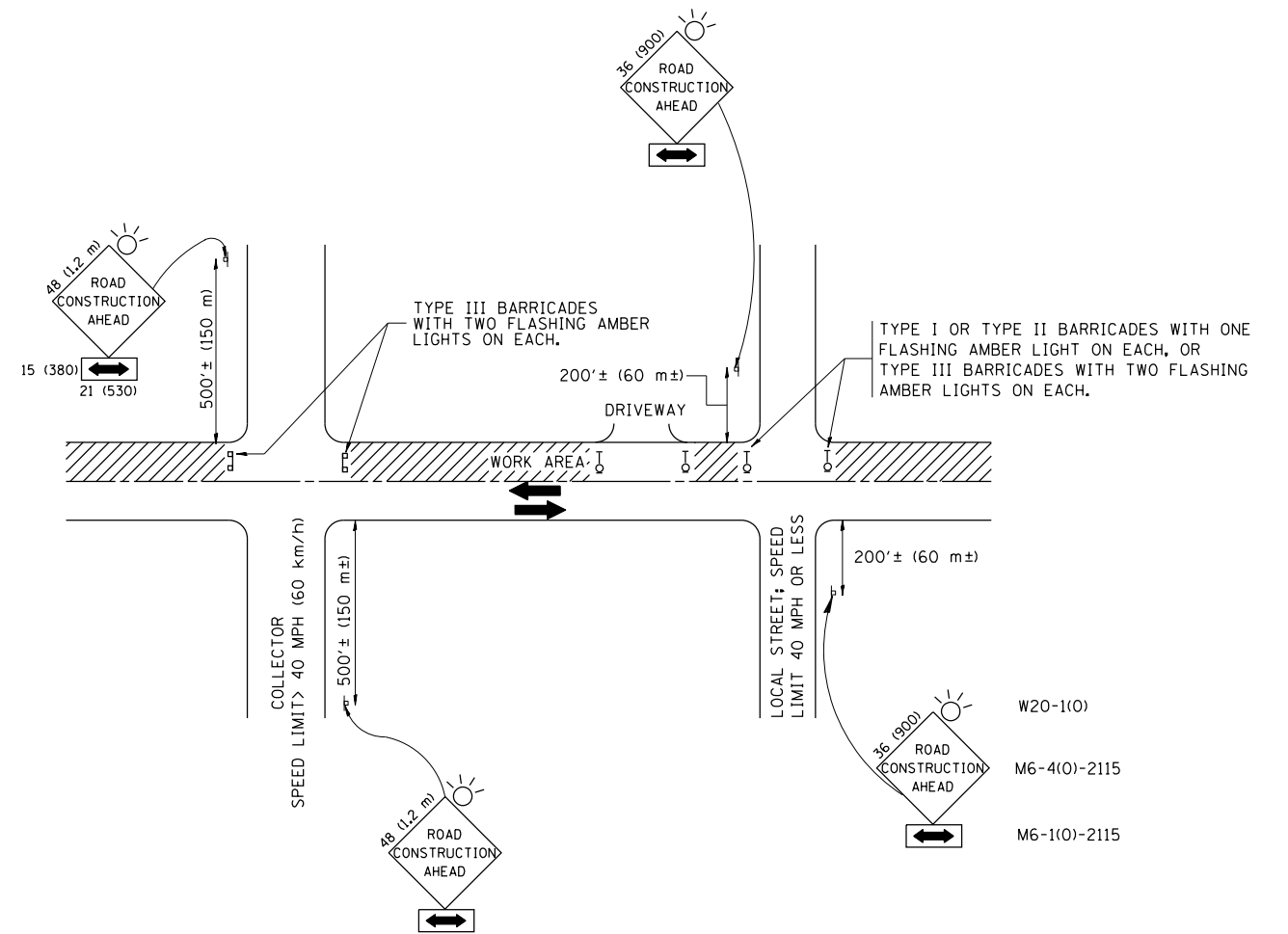
ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN.

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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

BENCHING DETAIL FOR EMBANKMENT WIDENING			
SCALE:	SHEET	OF SHEETS	STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
337	19-N-2	LAKE	81	67
BD-51			CONTRACT NO. 60P06	
ILLINOIS FED. AID PROJECT				



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

NOTES:

A. FOR NO LANE RESTRICTION ON THE SIDE ROAD OR DRIVEWAYS

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 AND FLAG MOUNTED ON IT APPROXIMATELY 200' (60 m) IN ADVANCE OF THE MAIN ROUTE.

b) THE CLOSED PORTION OF THE MAIN ROUTE SHALL BE PROTECTED BY BLOCKING WITH TYPE I, TYPE II OR TYPE III BARRICADES, 1/3 OF THE CROSS SECTION OF THE CLOSED PORTION.

2. SIDE ROAD WITH A SPEED LIMIT GREATER THAN 40 MPH (60 km/h) AS SHOWN ON THE DRAWING AND AS DIRECTED BY THE ENGINEER:

a) ONE ROAD CONSTRUCTION AHEAD SIGN 48 x 48 (1.2 m x 1.2 m) WITH A FLASHER MOUNTED ON IT APPROXIMATELY 500' (150 m) IN ADVANCE OF THE MAIN ROUTE.

b) THE CLOSED PORTION OF THE MAIN ROUTE SHALL BE PROTECTED BY BLOCKING WITH TYPE III BARRICADES, 1/2 OF THE CROSS SECTION OF THE CLOSED PORTION.

3. WHEN THE SIDE ROAD LIES BETWEEN THE BEGINNING OF THE MAINLINE SIGNING AND THE WORK ZONE, A SINGLE HEADED ARROW (M6-1) SHALL BE USED IN LIEU OF THE DOUBLE HEADED ARROW (M6-4).

B. FOR A LANE CLOSURE ON A SIDE ROAD OR DRIVEWAY:

USE APPLICABLE PORTIONS OF THE TYPICAL APPLICATION OF TRAFFIC CONTROL DEVICES (STD. 701501, STD. 701606 OR THE APPROPRIATE STANDARD). THE SPACING OF SIGNS AND BARRICADES SHALL BE ADJUSTED FOR FIELD CONDITIONS AS DIRECTED BY THE ENGINEER. THE DIRECTIONAL ARROW SHALL BE COVERED OR REMOVED WHEN NO LONGER CONSISTENT WITH THE SIDE ROAD LANE CLOSURE.

C. ADVANCE WARNING SIGNS ARE TO BE OMITTED ON DRIVEWAY UNLESS OTHERWISE NOTED.

D. THE TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS SHALL BE INCIDENTAL TO THE COST OF SPECIFIED TRAFFIC CONTROL STANDARDS OR ITEMS.

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

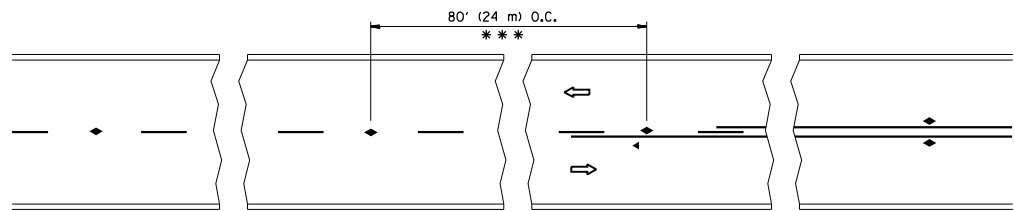
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	PLOT DATE = 2/10/2015	DATE - 06-89	REVISED - T. RAMMACH 01-06-00

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

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

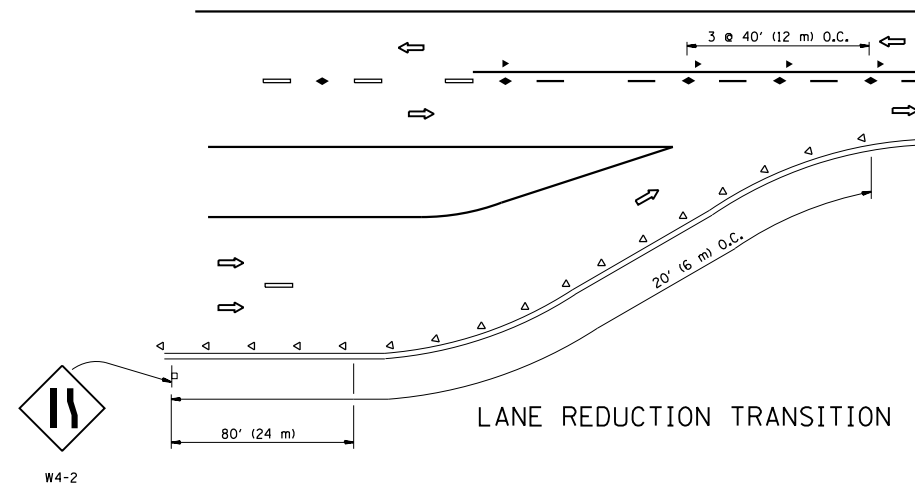
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F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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TC-10			CONTRACT NO. 60P06	
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

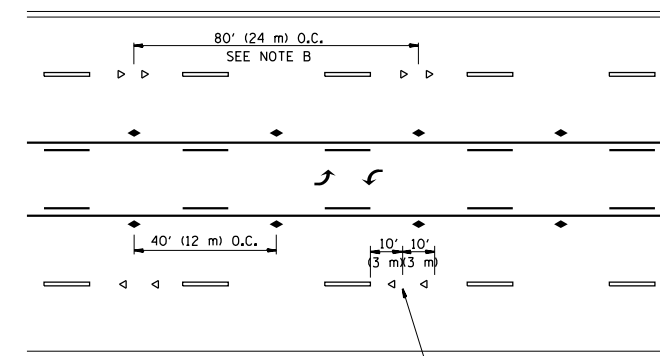


*** REDUCE TO 40' (12 m) O.C. ON CURVES WITH POSTED OR ADVISORY SPEED 45 M.P.H. (70 km/h) OR LESS.

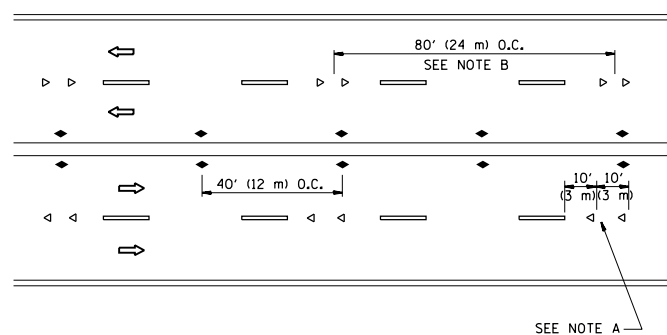
TWO-LANE/TWO-WAY



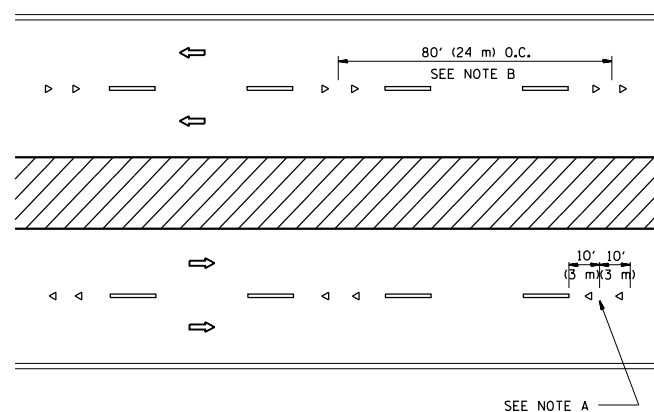
LANE REDUCTION TRANSITION



TWO-WAY LEFT TURN



MULTI-LANE/UNDIVIDED



MULTI-LANE/DIVIDED

GENERAL NOTES

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

SYMBOLS

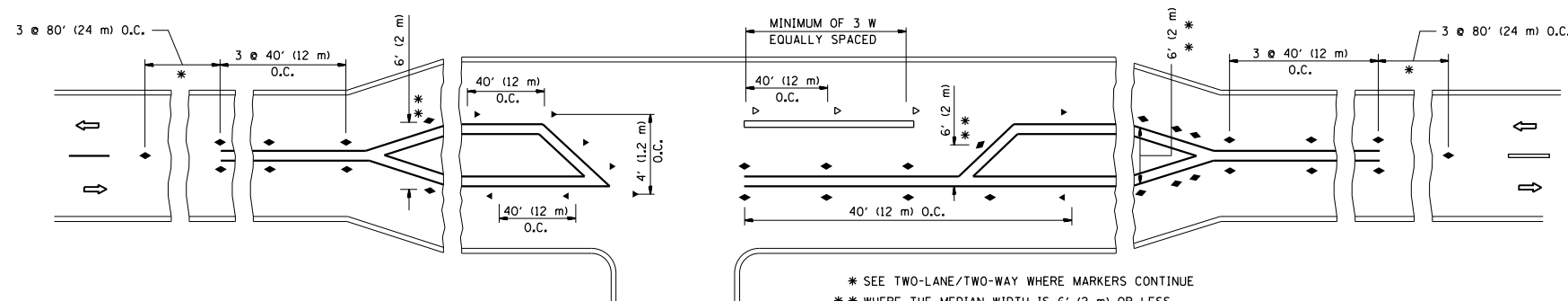
- YELLOW STRIPE
- WHITE STRIPE
- ◀ ONE-WAY AMBER MARKER
- ◁ ONE-WAY CRYSTAL MARKER (W/O)
- ◆ TWO-WAY AMBER MARKER

LANE MARKER NOTES

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

DESIGN NOTES

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



LEFT TURN

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

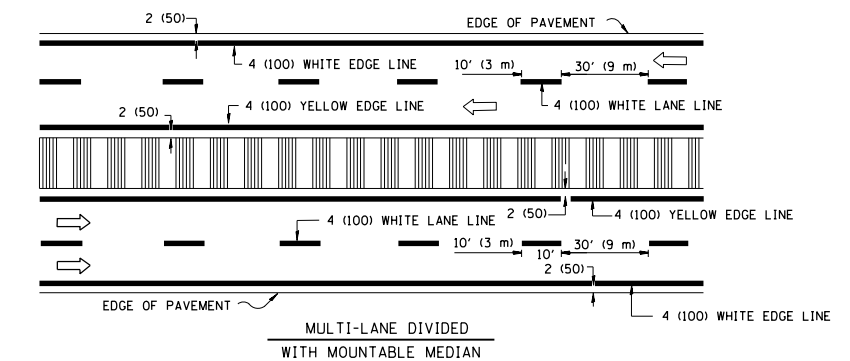
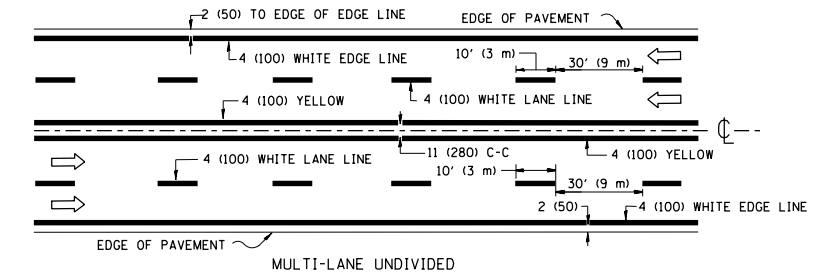
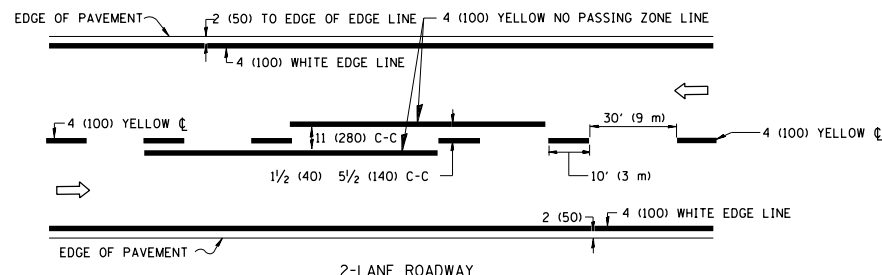
All dimensions are in inches (millimeters) unless otherwise shown.

FILE NAME =	USER NAME = Velichkovv	DESIGNED -	REVISED - T. RAMMACHER 09-19-94
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	PLOT SCALE = 100.0000' / 1"	CHECKED -	REVISED - T. RAMMACHER 01-06-00
	PLOT DATE = 2/10/2015	DATE -	REVISED - C. JUCIUS 09-09-09

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

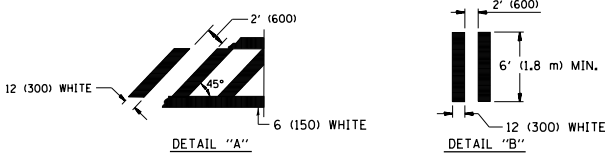
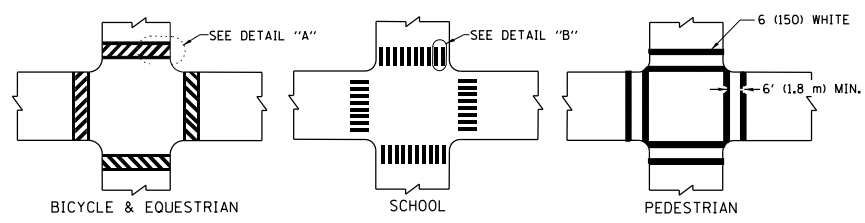
TYPICAL APPLICATIONS			
RAISED REFLECTIVE PAVEMENT MARKERS (SNOW-PLOW RESISTANT)			
SCALE: NONE	SHEET NO. 1 OF 1 SHEETS	STA.	TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
337	19-N-2	LAKE	81	69
TC-11			CONTRACT NO. 60P06	
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

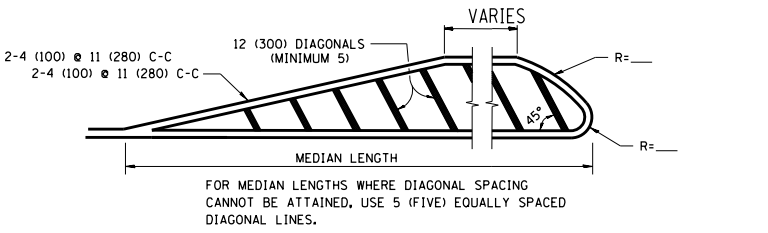
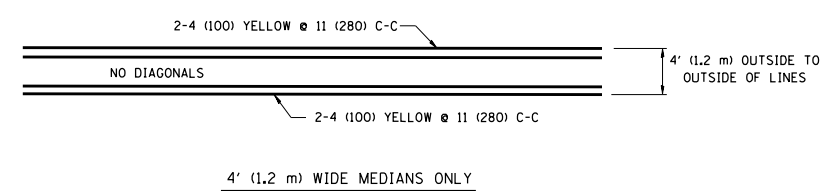


NOTE: MEDIANS WITH BARRIER CURB DO NOT REQUIRE AN EDGE LINE

TYPICAL LANE AND EDGE LINE MARKING

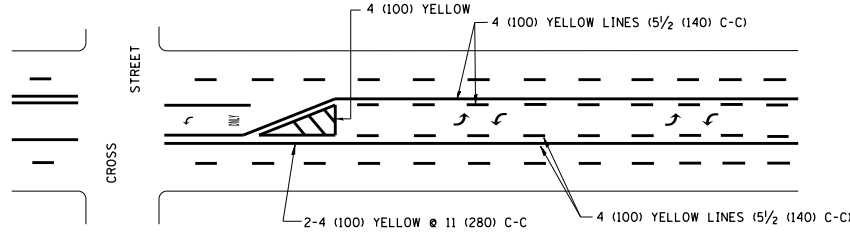


TYPICAL CROSSWALK MARKING

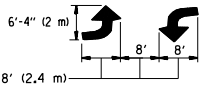


DIAGONAL LINE SPACING: 50' (15 m) C-C (LESS THAN 30MPH (50 km/h))
75' (25 m) C-C 30MPH (50 km/h) TO 45MPH (70 km/h)
150' (45 m) C-C (MORE THAN 45MPH (70 km/h))

MEDIANS OVER 4' (1.2 m) WIDE

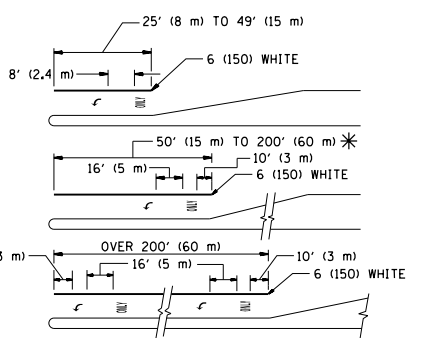


A MINIMUM OF TWO PAIRS OF TURN ARROWS SHALL BE USED, WHITE IN COLOR. ADDITIONAL PAIRS SHALL BE PLACED AT 200' (60 m) TO 300' (90 m) INTERVALS.



MEDIAN WITH TWO-WAY LEFT TURN LANE

TYPICAL PAINTED MEDIAN MARKING

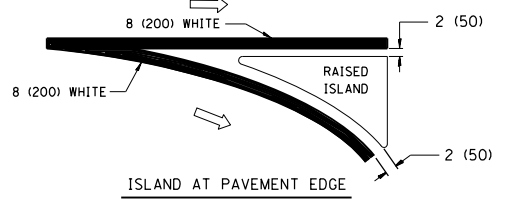
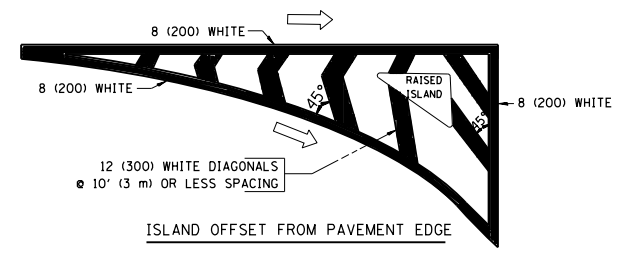


FULL SIZE LETTERS 8' (2.4 m) AND ARROWS SHALL BE USED.
AREA = 15.6 SQ. FT. (1.5 m²) ONLY AREA = 20.8 SQ. FT. (1.9 m²)

* TURN LANES IN EXCESS OF 400' (120 m) IN LENGTH MAY HAVE AN ADDITIONAL SET OF ARROW - "ONLY" INSTALLED MIDWAY BETWEEN THE OTHER TWO SETS OF ARROW - "ONLY".

TYPICAL LEFT (OR RIGHT) TURN LANE

TYPICAL TURN LANE MARKING



TYPICAL ISLAND MARKING

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

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

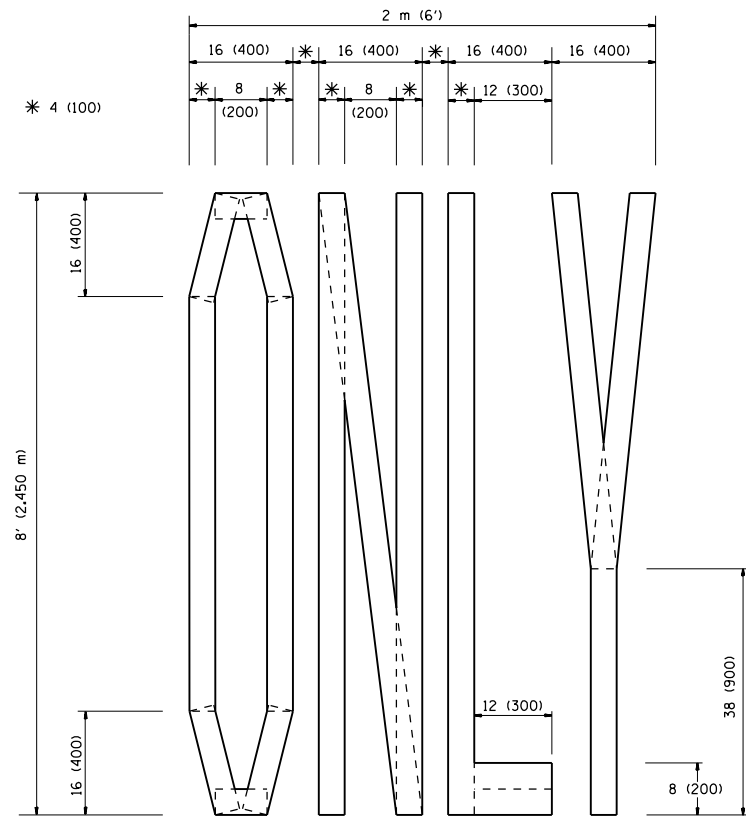
All dimensions are in inches (millimeters) unless otherwise shown.

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	PLOT DATE = 2/10/2015	DATE - 03-19-90	REVISED -

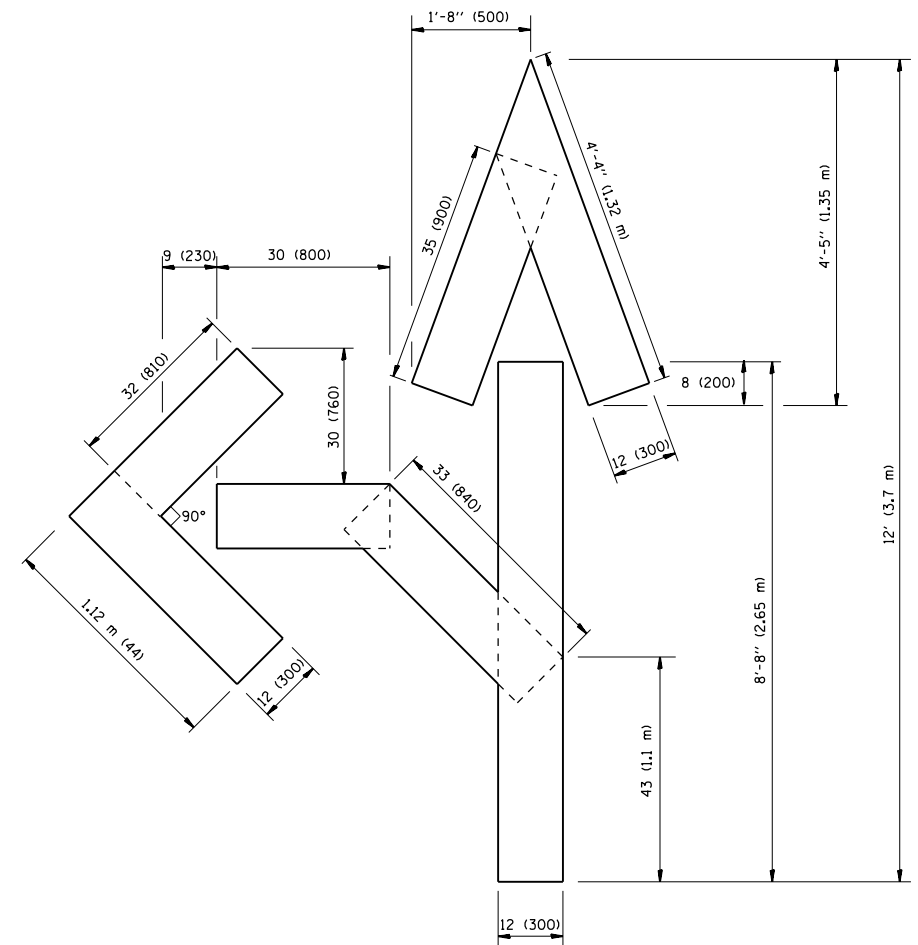
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

DISTRICT ONE			
TYPICAL PAVEMENT MARKINGS			
SCALE: NONE	SHEET NO. 1 OF 1 SHEETS	STA.	TO STA.

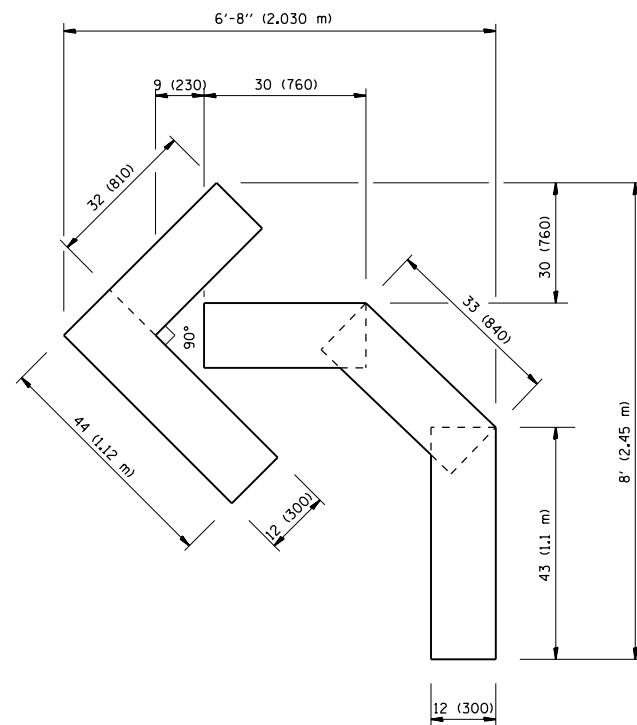
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
337	19-N-2	LAKE	81	70
TC-13		CONTRACT NO. 60P06		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



QUANTITY
 4 (100) LINE = 64.1 ft. (19.7 m)
 21.1 sq. ft. (1.97 sq. m)



QUANTITY
 4 (100) LINE = 82.5 ft. (25.3 m)
 27.5 sq. ft. (2.53 sq. m)



QUANTITY
 4 (100) LINE = 45.5 ft. (13.9 m)
 15.2 sq. ft. (1.39 sq. m)

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

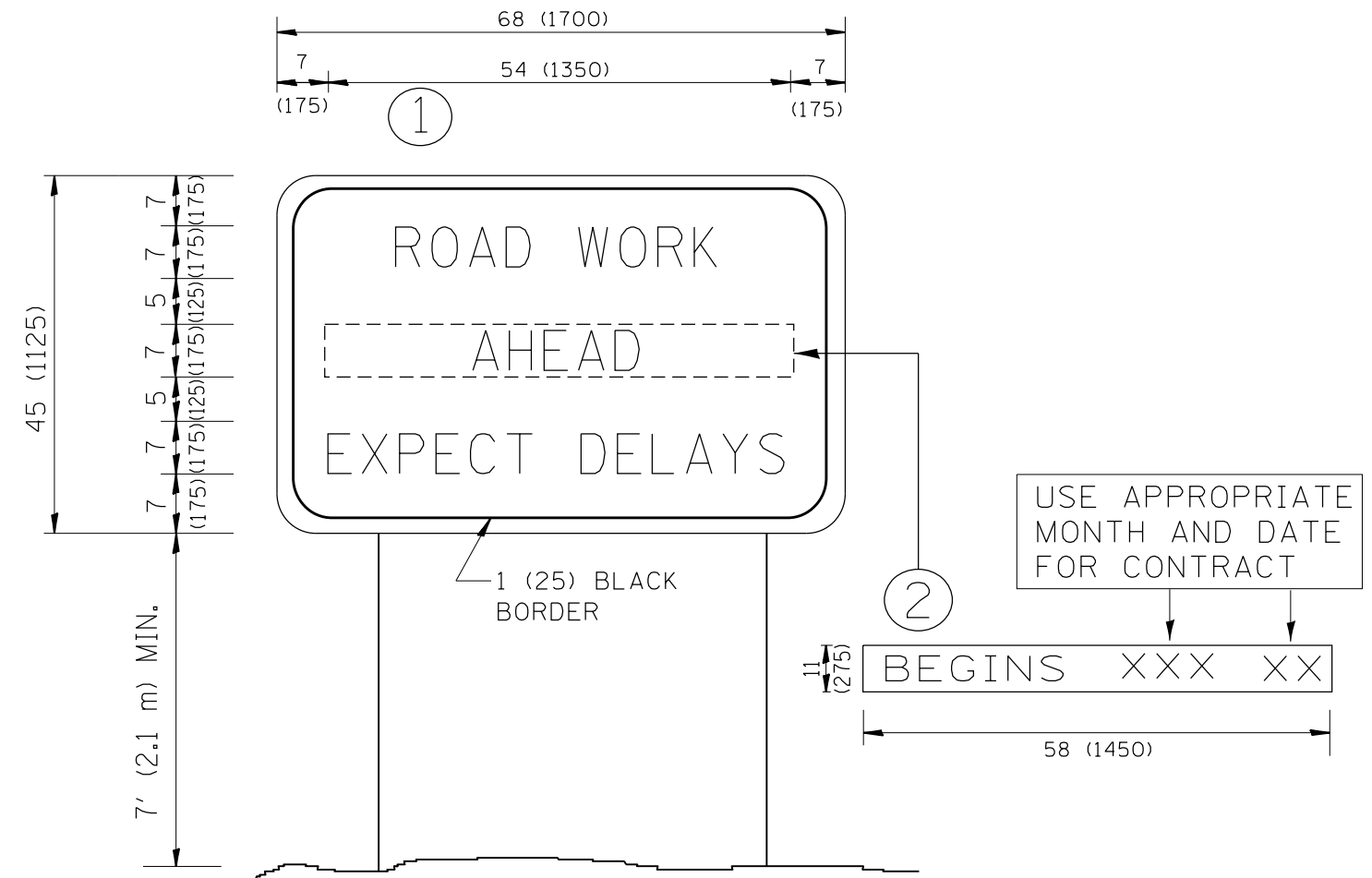
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	PLOT DATE = 2/10/2015	DATE - 09-18-94	REVISED -E. GOMEZ 08-28-00

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

PAVEMENT MARKING LETTERS AND SYMBOLS
 FOR TRAFFIC STAGING

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

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
337	19-N-2	LAKE	81	71
TC-16			CONTRACT NO. 60P06	
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



NOTES:

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

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

FILE NAME =	USER NAME = Velichkovv	DESIGNED -	REVISED - R. MIRS 09-15-97
et\pwork\pwork\velichkovv\d0184109\01std.dgn		DRAWN -	REVISED - R. MIRS 12-11-97
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

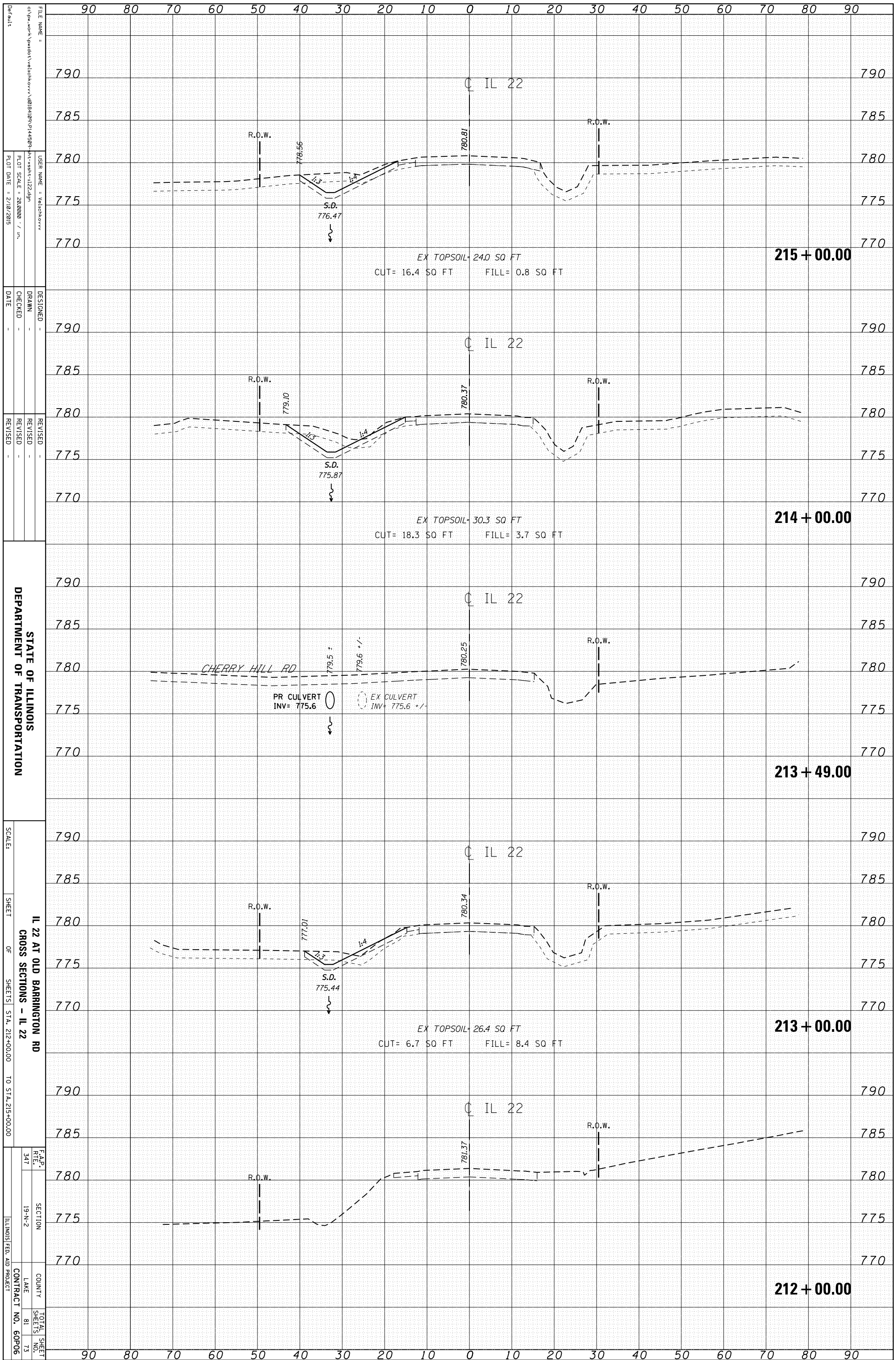
**ARTERIAL ROAD
INFORMATION SIGN**

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

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
337	19-N-2	LAKE	81	72
TC-22			CONTRACT NO. 60P06	
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

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

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



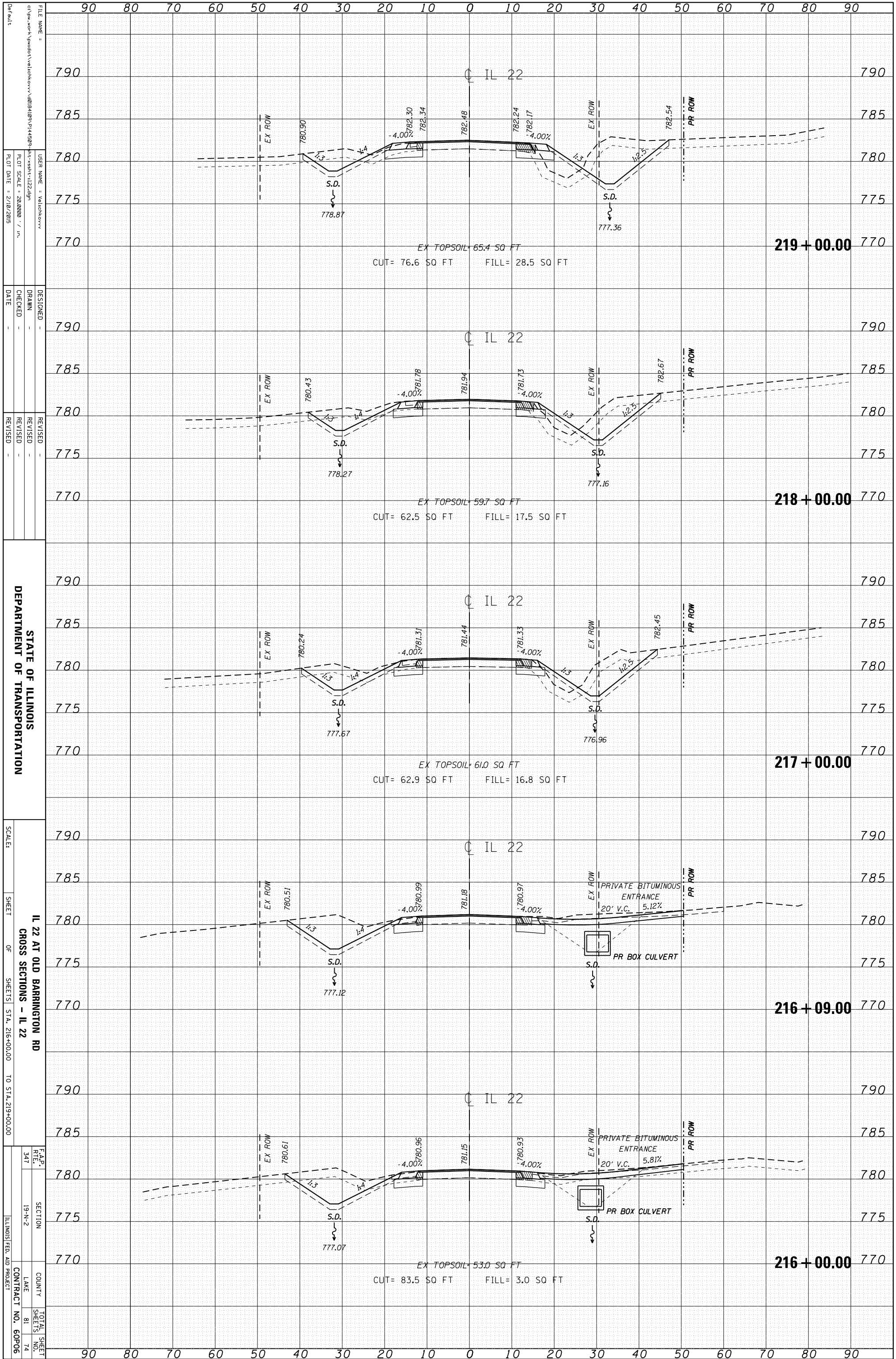
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL 22 AT OLD BARRINGTON RD
CROSS SECTIONS - IL 22

SCALE:	SHEET	OF	SHEETS	STA. 212+00.00	TO STA. 215+00.00
F.A.P. RT#	SECTION	COUNTY	LAKE	TOTAL SHEETS	SHEET NO.
347	19-N-2			81	73
				CONTRACT NO.	60P06
				ILLINOIS FED. AID PROJECT	

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

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



STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL 22 AT OLD BARRINGTON RD
CROSS SECTIONS - IL 22

F.A.P. RT# 347 SECTION 19-N-2 COUNTY LAKE CONTRACT NO. 60P06

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PLOT SCALE: 28.0000 / in.
PLOT DATE: 2/10/2015

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CHECKED -
DATE -

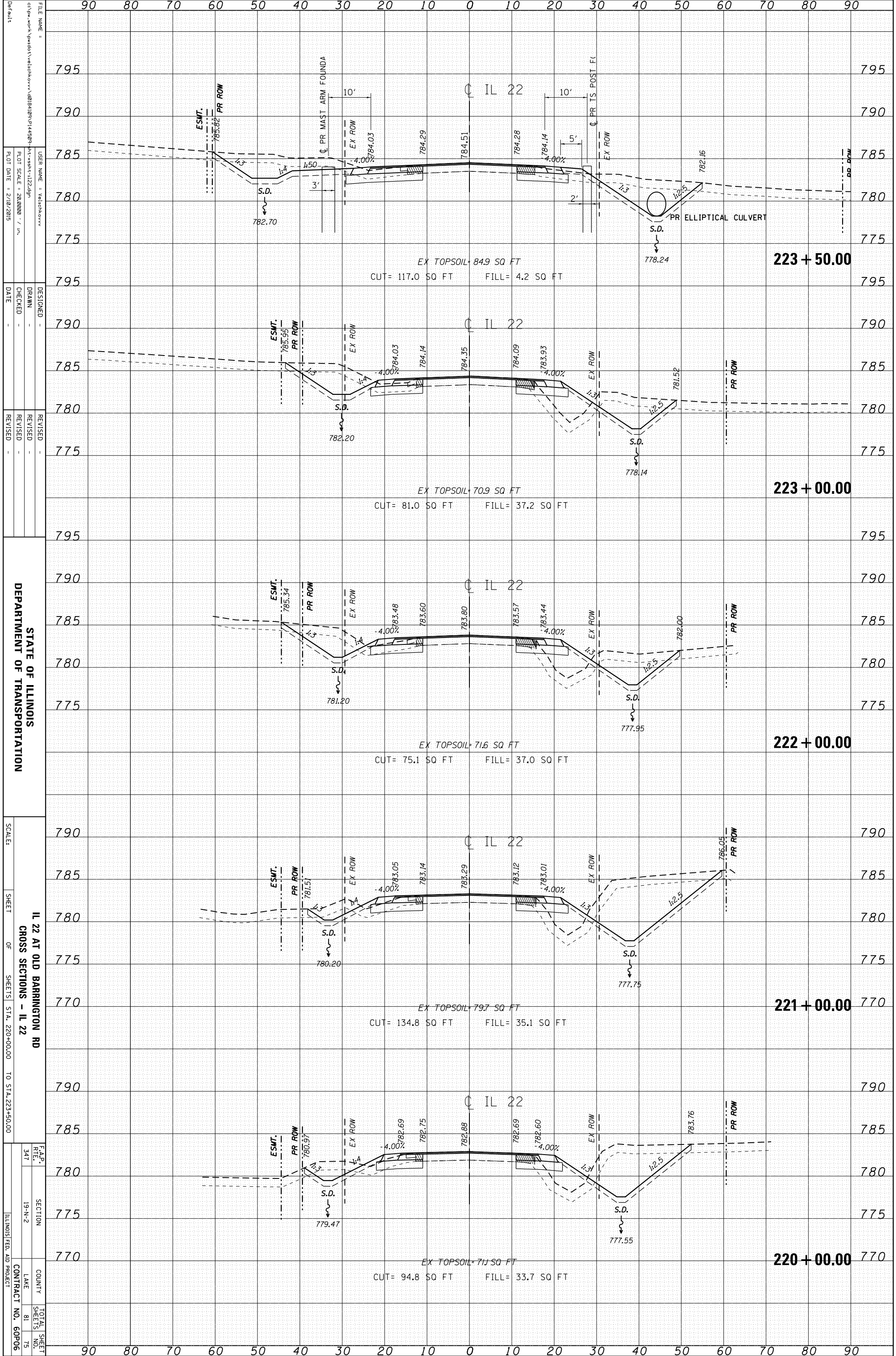
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REVISIED -

SCALE: SHEET OF SHEETS STA. 216+00.00 TO STA. 219+00.00

TOTAL SHEET NO. 81

ORIGINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
	TEMPLATE		
	AREAS		
	CHECKED		

FINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
	TEMPLATE		
	AREAS		
	CHECKED		



STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL 22 AT OLD BARRINGTON RD
CROSS SECTIONS - IL 22

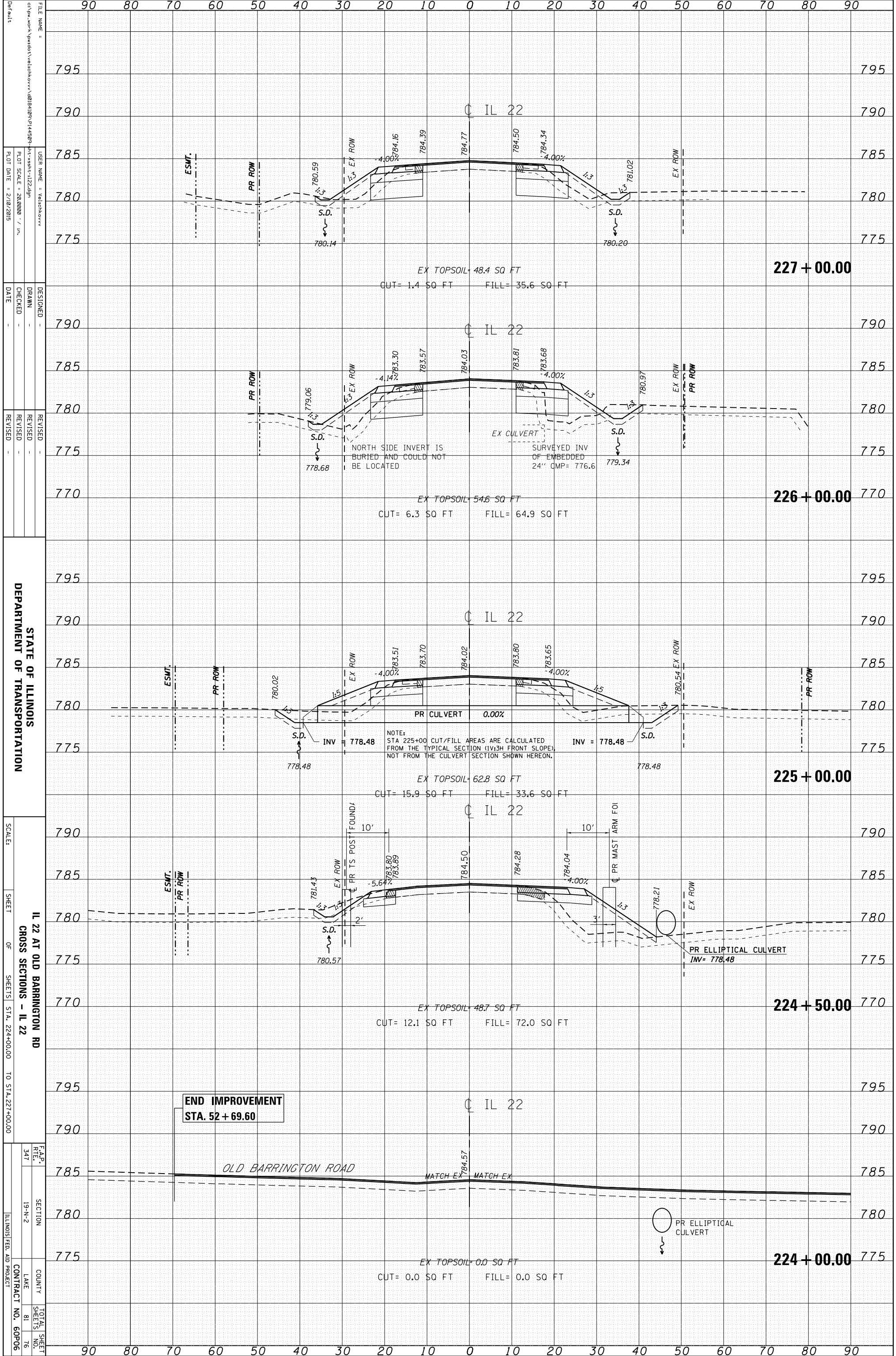
SCALE: SHEET OF SHEETS STA. 220+00.00 TO STA. 223+50.00

F.A.P. RTE. 347	SECTION 19-N-2	COUNTY LAKE	TOTAL SHEETS 81
			SHEET NO. 75
			CONTRACT NO. 60P06

ILLINOIS FED. AID PROJECT

ORIGINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
	TEMPLATE		
	AREAS		
	CHECKED		

FINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
	TEMPLATE		
	AREAS		
	CHECKED		



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 USER NAME = velchko
 PLOT SCALE = 28.0000 / in.
 PLOT DATE = 2/10/2015

DESIGNED -
 DRAWN -
 CHECKED -
 DATE -

REVISOR -
 REVISION -
 DATE -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

SCALE:
 SHEET OF SHEETS STA. 224+00.00 TO STA. 227+00.00

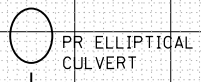
IL 22 AT OLD BARRINGTON RD
 CROSS SECTIONS - IL 22

F.A.P. 347
 SECTION 19-A-2
 COUNTY LAKE
 CONTRACT NO. 60P06

ILLINOIS FED. AID PROJECT

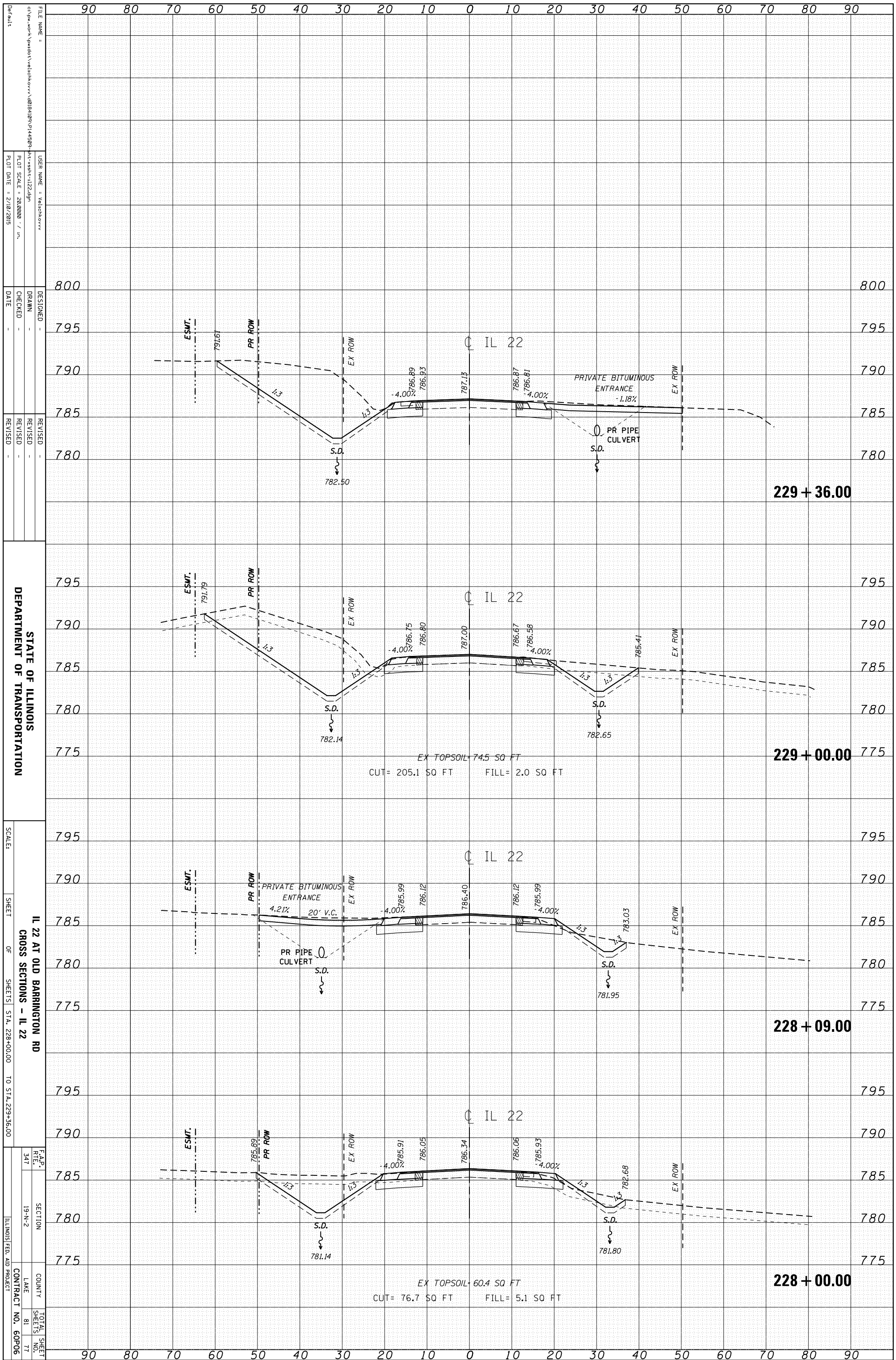
**END IMPROVEMENT
 STA. 52 + 69.60**

OLD BARRINGTON ROAD



ORIGINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
	TEMPLATE		
	AREAS		
	CHECKED		

FINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
	TEMPLATE		
	AREAS		
	CHECKED		



STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL 22 AT OLD BARRINGTON RD
CROSS SECTIONS - IL 22

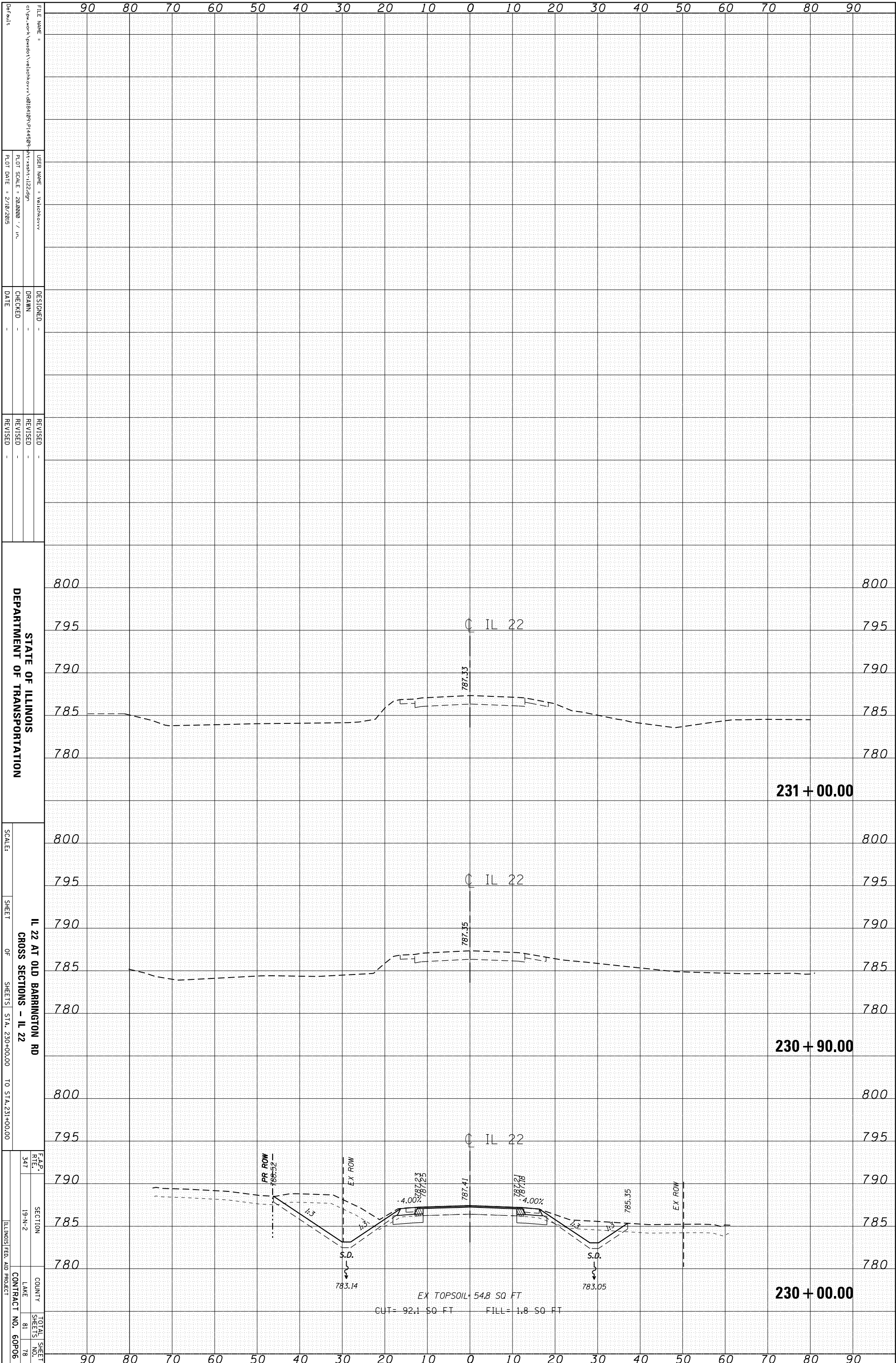
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F.A.P. RTE. 347	SECTION 19-N-2	COUNTY LAKE	TOTAL SHEETS 81
			SHEET NO. 77
			CONTRACT NO. 60P06

ILLINOIS FED. AID PROJECT

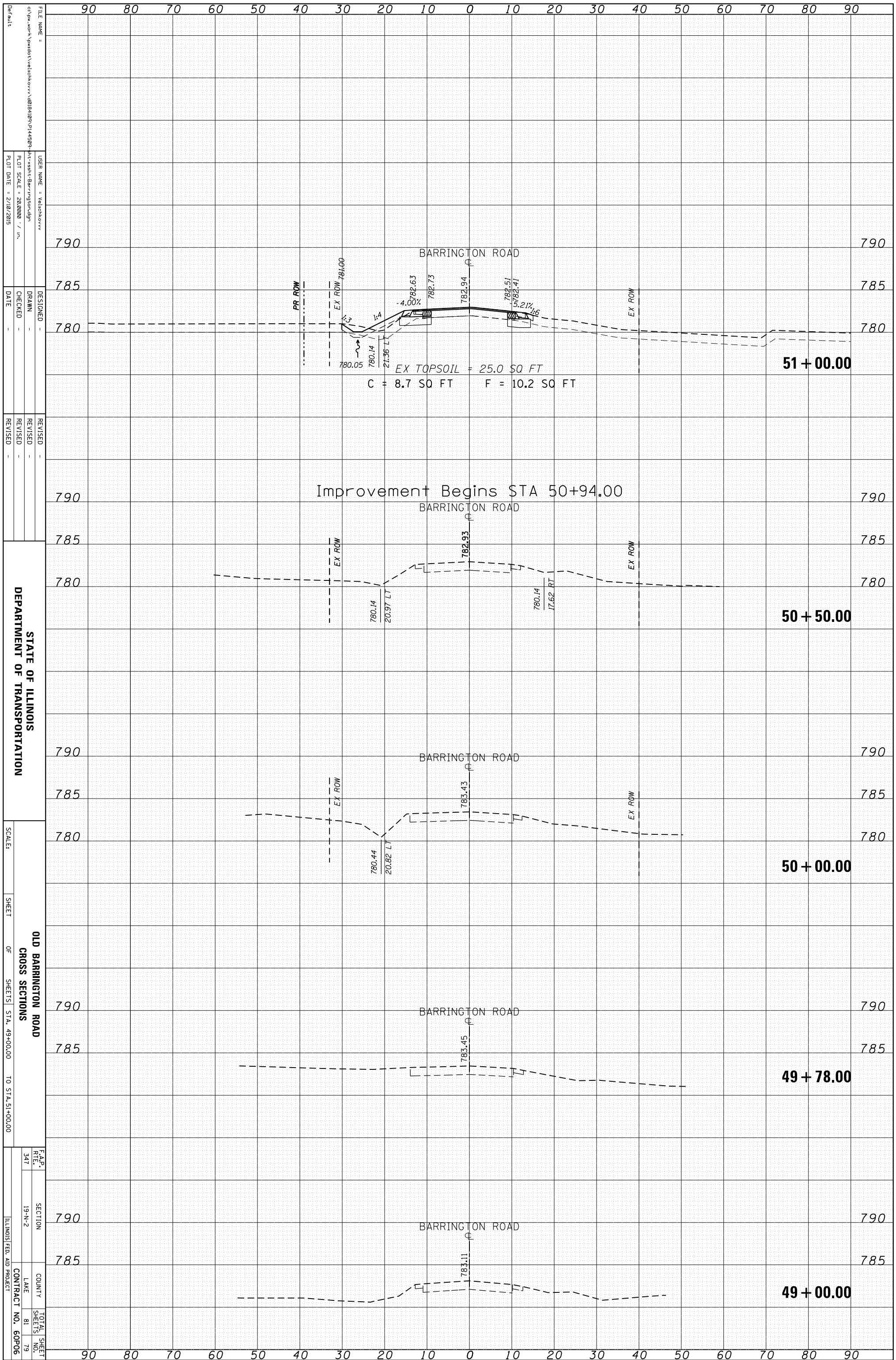
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NOTE BOOK	PLOTTED		
	TEMPLATE		
	AREAS		
	AREAS CHECKED		

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



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

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



STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SCALE: SHEET OF SHEETS STA. 49+00.00 TO STA. 51+00.00

OLD BARRINGTON ROAD
CROSS SECTIONS

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PLOT DATE: 2/10/2015

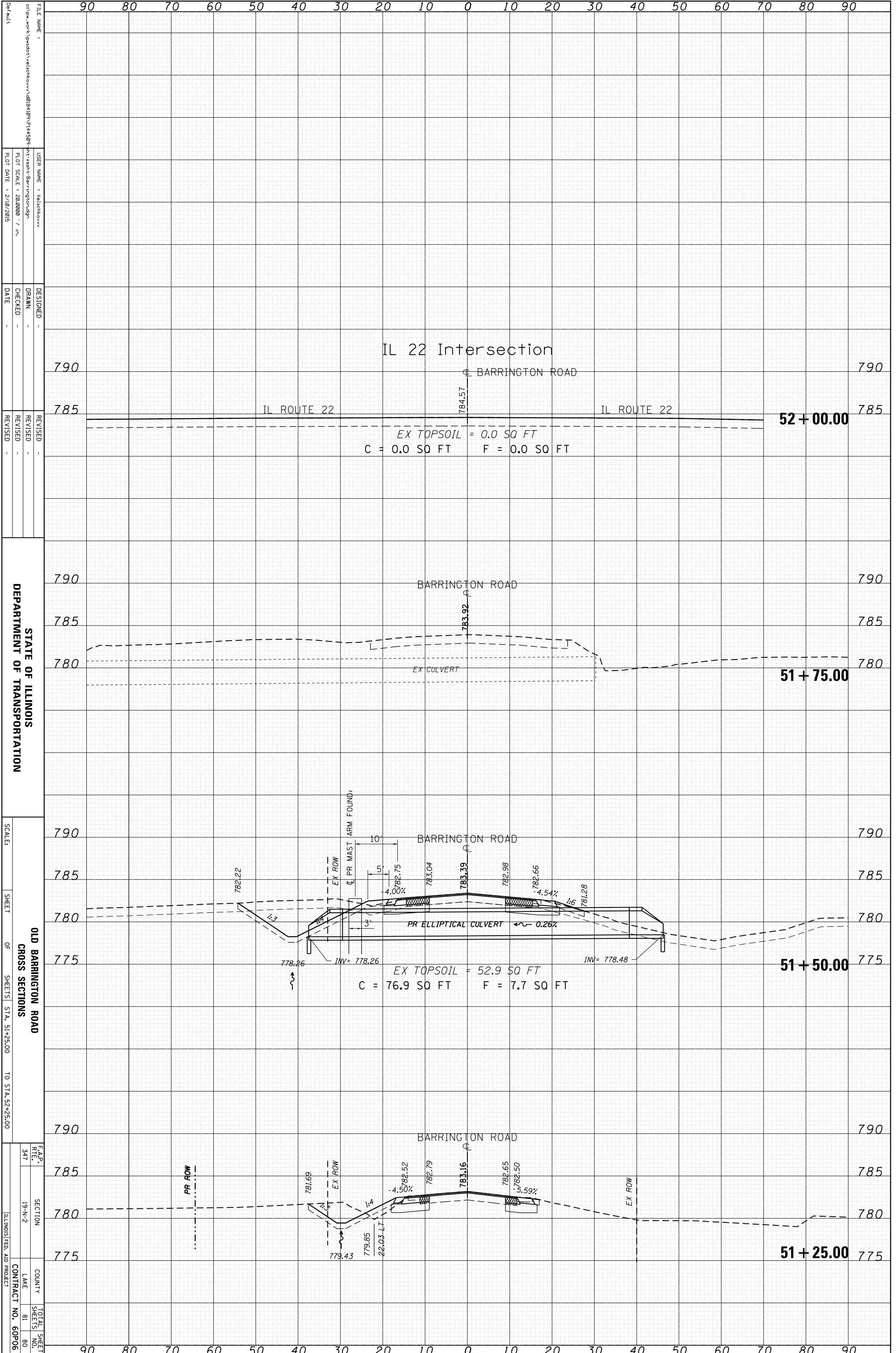
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DATE: -

REVISED: -
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REVISED: -

F.A.P. R.T.E. 347
SECTION 19-A-2
COUNTY LAKE
CONTRACT NO. 60P06
TOTAL SHEET NO. 81

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

FINAL SURVEY	SURVEYED _____	BY _____	DATE _____
NOTE BOOK	PLOTTED _____		
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PLOT DATE = 2/10/2015

DESIGNED -
DRAWN -
CHECKED -
DATE -

REVISOR -
REVISION -
DATE -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SCALE: SHEET OF SHEETS STA. 51+25.00 TO STA. 52+25.00

OLD BARRINGTON ROAD
CROSS SECTIONS

F.A.P. R.T.E. 347 SECTION 19-N-2 COUNTY LAKE CONTRACT NO. 60P06

TOTAL SHEET NO. 81

ILLINOIS FED. AID PROJECT

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

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

