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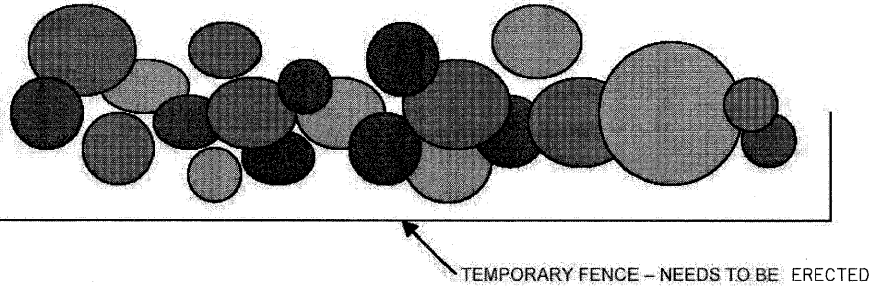
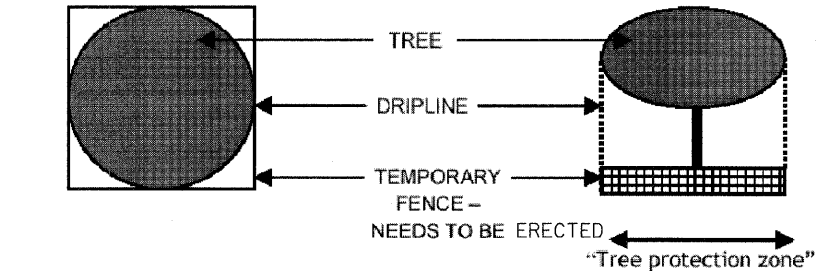
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	PLOT SCALE = 58.0888' / 1"	DRAWN - BK	REVISED -						330	128R-3	LAKE	518	2
	PLOT DATE = 9/8/2011	CHECKED - GFL	REVISED -		SCALE: SHEET NO. OF SHEETS STA. TO STA.				FED. ROAD DIST. NO. 1 (ILLINOIS) FED. AID PROJECT				
		DATE - 12/17/10	REVISED -						CONTRACT NO. 60953				

LIST OF STATE STANDARDS

000001-06	STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS
001001-02	AREAS OF REINFORCEMENT BARS
001006	DECIMAL OF AN INCH AND OF A FOOT
280001-05	TEMPORARY EROSION CONTROL SYSTEMS
406201-01	MAILBOX TURNOUT
420001-07	PAVEMENT JOINTS
420101-04	24' (7.2m) JOINTED PCC PAVEMENT
420111-03	PCC PAVEMENT ROUNDOUTS
420401-08	BRIDGE APPROACH PAVEMENT CONNECTOR
424001-05	CURB RAMPS FOR SIDEWALKS
442001-04	CLASS A PATCHES
483001-04	PCC SHOULDER
515001-03	NAME PLATE FOR BRIDGES
542301-03	PRECAST REINFORCED CONCRETE FLARED END SECTION
542311-02	GRATING FOR CONCRETE FLARED END SECTION (FOR 24"(600 mm) THRU 54"(1300 mm) PIPE
601001-04	SUB-SURFACE DRAINS
601101-01	CONCRETE HEADALL FOR PIPE DRAIN
602001-02	CATCH BASIN, TYPE A
602011-02	CATCH BASIN, TYPE C
602301-03	INLET, TYPE A
602401-03	MANHOLE, TYPE A
602406-04	MANHOLE, TYPE A, 6'(1.8mm) DIAMETER
602601-02	PRECAST REINFORCED CONCRETE FLAT SLAB TOP
602701-02	MANHOLE STEPS
604001-03	FRAME AND LIDS, TYPE 1
604036-02	GRATE, TYPE 8
604041-02	FRAME AND GRATE, TYPE 9
604051-03	FRAME AND GRATE, TYPE 11
604091-02	FRAME AND GRATE, TYPE 24
606001-04	CONCRETE CURB TYPE B AND COMBINATION CONCRETE CURB AND GUTTER
606201-02	TYPE B GUTTER (INLET, OUTLET, AND ENTRANCE)
606301-04	PC CONCRETE ISLANDS AND MEDIANS
606306-03	CORRUGATED PC CONCRETE MEDIANS
609006-05	BRIDGE APPROACH PAVEMENT (DRAIN DETAIL)
630001-09	STEEL PLATE BEAM GUARDRAIL
630201-06	PCC/HMA STABILIZATION AT STEEL PLATE BEAM GUARDRAIL
630301-05	SHOULDER WIDENING FOR TYPE 1 (SPECIAL) GUARDRAIL TERMINALS
631011-07	TRAFFIC BARRIER TERMINAL, TYPE 2
631031-09	TRAFFIC BARRIER TERMINAL, TYPE 6
635006-03	REFLECTOR AND TERMINAL MARKER PLACEMENT
635011-02	REFLECTOR MARKER AND MOUNTING DETAILS
701301-04	LANE CLOSURE, 2L, 2W, SHORT TIME OPERATIONS
701311-03	LANE CLOSURE, 2L, 2W, MOVING OPERATIONS - DAY ONLY
701426-04	LANE CLOSURE, MULTILANE, INTERMITTENT OR MOVING OPERATION, FOR SPEEDS ≥ 45 MPH
701427	LANE CLOSURE, MULTILANE, INTERMITTENT OR MOVING OPERATION, FOR SPEEDS ≤ 45 MPH
701501-06	URBAN LANE CLOSURE, 2L, 2W, UNDIVIDED
701602-05	URBAN LANE CLOSURE, MULTILANE, 2W WITH BIDIRECTIONAL LEFT TURN LANE
701606-07	URBAN LANE CLOSURE, MULTILANE, 2W WITH MOUNTABLE MEDIAN
701701-07	URBAN LANE CLOSURE, MULTILANE INTERSECTION
701801-04	LANE CLOSURE, MULTILANE 1W OR 2W CROSSWALK OR SIDEWALK CLOSURE
701901-01	TRAFFIC CONTROL DEVICES
704001-06	TEMPORARY CONCRETE BARRIER
702001-01	SIGN PANEL MOUNTING DETAILS
720006-02	SIGN PANEL ERECTION DETAILS
720011-01	METAL POSTS FOR SIGNS, MARKERS AND DELINEATORS
720016-02	MAST ARM MOUNTED STREET NAME SIGNS
720021-02	SIGN PANELS, EXTRUDED ALUMINUM TYPE
728001-01	TELESCOPING STEEL SIGN SUPPORT

LIST OF STATE STANDARDS (CONT.)

729001-01	APPLICATIONS OF TYPES A AND B METAL POSTS (FOR SIGNS & MARKERS)
731001-01	BASE FOR TELESCOPING STEEL SIGN SUPPORT
780001-02	TYPICAL PAVEMENT MARKINGS
781001-03	TYPICAL APPLICATIONS RAISED REFLECTIVE PAVEMENT MARKERS
805001-01	ELECTRICAL SERVICE INSTALLATION DETAILS
814001-02	HANDHOLES
814006-02	DOUBLE HANDHOLES
857001-01	STANDARD PHASE DESIGNATION DIAGRAMS AND PHASE SEQUENCES
862001-01	UNINTERRUPTABLE POWER SUPPLY (UPS)
873001-02	TRAFFIC SIGNAL GROUNDING & BONDING
877001-04	STEEL MAST ARM ASSEMBLY AND POLE 16' THROUGH 55'
877002-01	STEEL MAST ARM ASSEMBLY AND POLE 56' THROUGH 75'
877006-03	STEEL MAST ARM ASSEMBLY AND POLE WITH DUAL MAST ARMS
877011-04	STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 16' THROUGH 55'
877012-01	STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 56' THROUGH 75'
878001-08	CONCRETE FOUNDATION DETAILS
880001-01	SPAN WIRE MOUNTED SIGNALS AND FLASHING BEACON INSTALLATION
880006-01	TRAFFIC SIGNAL MOUNTING DETAILS
886001-01	DETECTOR LOOP INSTALLATIONS



THE LIMITS OF TREE PROTECTION WITHIN LAKE COUNTY FOREST PRESERVE PROPERTY WILL BE BASED ON 1.5' PER INCH DIAMETER OF THE TREE MEASURED RADIALY FROM THE CENTER OF TREE.

TREE PROTECTION DETAIL

				CONSTRUCTION CODE							
				100% LAKE COUNTY						100% VILLAGE OF LIBERTYVILLE	100% IDOT
				ROADWAY	SN-049-0199	BOX CULVERT	RETAINING WALL	TRAFFIC SIGNALS	LIGHTING URBAN	0043	0043
				0003	0010	0040	0040	0021	0021		
				URBAN	URBAN	URBAN	URBAN	URBAN	URBAN		
CODE NO.	ITEM	UNIT	TOTAL QUANTITY								
20100110	TREE REMOVAL (6 TO 15 UNITS DIAMETER)	UNIT	1659	1659							
20100210	TREE REMOVAL (OVER 15 UNITS DIAMETER)	UNIT	2233	2233							
20101000	TEMPORARY FENCE	FOOT	14170	14170							
* 20101200	TREE ROOT PRUNING	EACH	10	10							
* 20101300	TREE PRUNING (1 TO 10 INCH DIAMETER)	EACH	50	50							
* 20101350	TREE PRUNING (OVER 10 INCH DIAMETER)	EACH	50	50							
20200100	EARTH EXCAVATION	CU YD	53164	53164							
20201200	REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL	CU YD	7421	7421							
20400800	FURNISHED EXCAVATION	CU YD	54104	54104							
20800150	TRENCH BACKFILL	CU YD	13180	13180							
21001000	GEOTECHNICAL FABRIC FOR GROUND STABILIZATION	SQ YD	24532	24532							
* 21101505	TOPSOIL EXCAVATION AND PLACEMENT	CU YD	13724	13724							
* 25000100	SEEDING, CLASS 1	ACRE	0.07	0.07							
* 25000210	SEEDING, CLASS 2A	ACRE	11.07	11.07							
* 25000300	SEEDING, CLASS 3	ACRE	1.14	1.14							
* 25000400	NITROGEN FERTILIZER NUTRIENT	POUND	1729	1729							
* 25000600	POTASSIUM FERTILIZER NUTRIENT	POUND	1729	1729							
* 25100105	MULCH, METHOD 1	ACRE	5	5							
* 25100115	MULCH, METHOD 2	ACRE	5	5							
* 25100125	MULCH, METHOD 3	ACRE	5	5							
* 25100135	MULCH, METHOD 4	ACRE	5	5							
* 25100630	EROSION CONTROL BLANKET	SQ YD	53597	53597							
* 25100900	TURF REINFORCEMENT MAT	SQ YD	508	508							
* 25200110	SODDING, SALT TOLERANT	SQ YD	6011	6011							
* 25200200	SUPPLEMENTAL WATERING	UNIT	100	100							
* 28000200	EARTH EXCAVATION FOR EROSION CONTROL	CU YD	550	550							
* 28000250	TEMPORARY EROSION CONTROL SEEDING	POUND	2682	2682							
28000305	TEMPORARY DITCH CHECKS	FOOT	93	93							
28000400	PERIMETER EROSION BARRIER	FOOT	31147	31147							
28000500	INLET AND PIPE PROTECTION	EACH	215	215							
28000510	INLET FILTERS	EACH	218	218							
28001000	AGGREGATE (EROSION CONTROL)	TON	60	60							
28100101	STONE RIPRAP, CLASS A1	SQ YD	518	518							

• SPECIALITY ITEM

FILE NAME =	USER NAME = IDOT	DESIGNED - EJM	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION				SUMMARY OF QUANTITIES				F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1:\02\001\cadd sheets\sh-t-sq\001.dgn		DRAWN - BK	REVISED -									330	128R-3	LAKE	518	5
	PLOT SCALE = 50.0000' / IN.	CHECKED - GFL	REVISED -													
	PLOT DATE = 8/12/2011	DATE - 12/17/10	REVISED -													CONTRACT NO. 60953
								SCALE:	SHEET NO.	OF	SHEETS	STA.	TO STA.	FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT		

				CONSTRUCTION CODE							
				100% LAKE COUNTY						100% VILLAGE OF LIBERTYVILLE 0043	100% IDOT 0043
				ROADWAY 0003 URBAN	SN-049-0199 BRIDGE 0010 URBAN	BOX CULVERT 0040 URBAN	RETAINING WALL 0040 URBAN	TRAFFIC SIGNALS 0021 URBAN	LIGHTING URBAN 0021		
CODE NO.	ITEM	UNIT	TOTAL QUANTITY								
50104400	CONCRETE HEADWALL REMOVAL	EACH	7	7							
50105220	PIPE CULVERT REMOVAL	FOOT	1528	1528							
50200100	STRUCTURE EXCAVATION	CU YD	3159		1572		1587				
50200450	REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL FOR STRUCTURES	CU YD	7925			3325	4600				
50300100	FLOOR DRAINS	EACH	8		8						
50300225	CONCRETE STRUCTURES	CU YD	1254.6		532.4		722.2				
50300255	CONCRETE SUPERSTRUCTURE	CU YD	617.5		467.3		150.2				
50300260	BRIDGE DECK GROOVING	SQ YD	529		529						
50300285	FORM LINER TEXTURED SURFACE	SQ FT	9154			926	8228				
50300300	PROTECTIVE COAT	SQ YD	1544		1272		272				
50500305	ERECTING STRUCTURAL STEEL	L SUM	1		1						
50500505	STUD SHEAR CONNECTORS	EACH	6997		3597		3400				
50800105	REINFORCEMENT BARS	POUND	70540			70540					
50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	278010		157220	1930	118960				
50800515	BAR SPLICERS	EACH	841		713	128					
50901750	PARAPET RAILING	FOOT	638		130		508				
51200958	FURNISHING METAL SHELL PILES 14" X 0.250"	FOOT	2535		2535						
51202305	DRIVING PILES	FOOT	2535		2535						
51203200	TEST PILE METAL SHELLS	EACH	2		2						
51204650	PILE SHOES	EACH	149		149						
51500100	NAME PLATES	EACH	3		1	2					
52000110	PREFORMED JOINT STRIP SEAL	FOOT	190		190						
52100210	ERECTING ELASTOMERIC BEARING ASSEMBLY, TYPE I	EACH	11		11						
52100520	ANCHOR BOLTS, 1"	EACH	22		22						
54003000	CONCRETE BOX CULVERTS	CU YD	386			386					
54010402	PRECAST CONCRETE BOX CULVERTS 4' X 2'	FOOT	184			184					
54010503	PRECAST CONCRETE BOX CULVERTS 5' X 3'	FOOT	99			99					
54010706	PRECAST CONCRETE BOX CULVERTS 7' X 6'	FOOT	222			222					
54010803	PRECAST CONCRETE BOX CULVERTS 8' X 3'	FOOT	116			116					
54010805	PRECAST CONCRETE BOX CULVERTS 8' X 5'	FOOT	107			107					
54213857	PRECAST REINFORCED CONCRETE FLARED END SECTIONS 12"	EACH	7	7							
54213863	PRECAST REINFORCED CONCRETE FLARED END SECTIONS 18"	EACH	10	10							
54213866	PRECAST REINFORCED CONCRETE FLARED END SECTIONS 21"	EACH	1	1							

• SPECIALITY ITEM

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		DRAWN - BK	REVISED -							330	128R-3	LAKE	518	7
	PLOT SCALE = 50.0000 ' / IN.	CHECKED - GFL	REVISED -							CONTRACT NO. 60953				
	PLOT DATE = 8/12/2011	DATE - 12/17/10	REVISED -		SCALE:	SHEET NO.	OF	SHEETS	STA.	TO STA.	FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT	

Rev. 9-12-11

				CONSTRUCTION CODE								
				100% LAKE COUNTY								
				ROADWAY 0003 URBAN	SN-049-0199 BRIDGE 0010 URBAN	BOX CULVERT 0040 URBAN	RETAINING WALL 0040 URBAN	TRAFFIC SIGNALS 0021 URBAN	LIGHTING URBAN 0021	100% VILLAGE OF LIBERTYVILLE 0043	100% IDOT 0043	
CODE NO.	ITEM	UNIT	TOTAL QUANTITY									
54213669	PRECAST REINFORCED CONCRETE FLARED END SECTIONS 24"	EACH	9	9								
54213675	PRECAST REINFORCED CONCRETE FLARED END SECTIONS 30"	EACH	2	2								
54213681	PRECAST REINFORCED CONCRETE FLARED END SECTIONS 36"	EACH	2	2								
5421A042	PIPE CULVERTS, CLASS A, TYPE 1 42" (TEMPORARY)	FOOT	32	32								
54247130	GRATING FOR CONCRETE FLARED END SECTION 24"	EACH	9	9								
54247150	GRATING FOR CONCRETE FLARED END SECTION 30"	EACH	2	2								
54247170	GRATING FOR CONCRETE FLARED END SECTION 36"	EACH	2	2								
542A1057	PIPE CULVERTS, CLASS A, TYPE 2 12"	FOOT	72	72								
542A1063	PIPE CULVERTS, CLASS A, TYPE 2 18"	FOOT	366	366								
542A1069	PIPE CULVERTS, CLASS A, TYPE 2 24"	FOOT	461	461								
542A1075	PIPE CULVERTS, CLASS A, TYPE 2 30"	FOOT	123	123								
550A0040	STORM SEWERS, CLASS A, TYPE 1 10"	FOOT	158	158								
550A0050	STORM SEWERS, CLASS A, TYPE 1 12"	FOOT	672	672								
550A0070	STORM SEWERS, CLASS A, TYPE 1 15"	FOOT	537	537								
550A0090	STORM SEWERS, CLASS A, TYPE 1 18"	FOOT	174	174								
550A0110	STORM SEWERS, CLASS A, TYPE 1 21"	FOOT	92	92								
550A0120	STORM SEWERS, CLASS A, TYPE 1 24"	FOOT	162	162								
550A0160	STORM SEWERS, CLASS A, TYPE 1 36"	FOOT	147	147								
550A0180	STORM SEWERS, CLASS A, TYPE 1 42"	FOOT	105	105								
550A0340	STORM SEWERS, CLASS A, TYPE 2 12"	FOOT	6685	6685								
550A0360	STORM SEWERS, CLASS A, TYPE 2 15"	FOOT	2000	2000								
550A0380	STORM SEWERS, CLASS A, TYPE 2 18"	FOOT	914	914								
550A0400	STORM SEWERS, CLASS A, TYPE 2 21"	FOOT	1195	1195								
550A0410	STORM SEWERS, CLASS A, TYPE 2 24"	FOOT	2754	2754								
550A0430	STORM SEWERS, CLASS A, TYPE 2 30"	FOOT	592	592								
550A0450	STORM SEWERS, CLASS A, TYPE 2 36"	FOOT	1366	1366								
550A0470	STORM SEWERS, CLASS A, TYPE 2 42"	FOOT	128	128								
550A2320	STORM SEWERS, RUBBER GASKET, CLASS A, TYPE 1 12"	FOOT	100	100								
550A2330	STORM SEWERS, RUBBER GASKET, CLASS A, TYPE 1 15"	FOOT	100	100								
550A2340	STORM SEWERS, RUBBER GASKET, CLASS A, TYPE 1 18"	FOOT	100	100								
55100500	STORM SEWER REMOVAL 12"	FOOT	3076	3076								
55100900	STORM SEWER REMOVAL 18"	FOOT	512	512								
55101200	STORM SEWER REMOVAL 24"	FOOT	1285	1285								
56103000	DUCTILE IRON WATER MAIN 6"	FOOT	463							387	76	

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FILE NAME = j:\102901\cadd sheets\sh-t-soq004.dgn	USER NAME = IDOT	DESIGNED - EJM	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SUMMARY OF QUANTITIES				F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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				CONSTRUCTION CODE								
				100% LAKE COUNTY								
				ROADWAY 0003 URBAN	SN-049-0199 BRIDGE 0010 URBAN	BOX CULVERT 0040 URBAN	RETAINING WALL 0040 URBAN	TRAFFIC SIGNALS 0021 URBAN	LIGHTING URBAN 0021	100% VILLAGE OF LIBERTYVILLE 0043	100% IDOT 0043	
CODE NO.	ITEM	UNIT	TOTAL QUANTITY									
56103100	DUCTILE IRON WATER MAIN 8"	FOOT	746	URBAN						45	701	
56103200	DUCTILE IRON WATER MAIN 10"	FOOT	353								353	
56103300	DUCTILE IRON WATER MAIN 12"	FOOT	212								212	
56104900	WATER VALVES 8"	EACH	1							1		
56105000	WATER VALVES 8"	EACH	6							1	5	
56105100	WATER VALVES 10"	EACH	1								1	
56105200	WATER VALVES 12"	EACH	1								1	
56200700	WATER SERVICE LINE 2"	FOOT	610							110	500	
56201800	CORPORATION STOPS 2"	EACH	14							2	12	
56400500	FIRE HYDRANTS TO BE REMOVED	EACH	5							2	3	
56400820	FIRE HYDRANT WITH AUXILIARY VALVE AND VALVE BOX	EACH	3							1	2	
56500800	DOMESTIC WATER SERVICE BOXES	EACH	14							2	12	
58700300	CONCRETE SEALER	SQ FT	2197		2197							
59100100	GEOCOMPOSITE WALL DRAIN	SQ YD	918		228		692					
59300100	CONTROLLED LOW-STRENGTH MATERIAL	CW YD	50									
60100600	CONCRETE HEADWALLS FOR PIPE DRAINS	EACH	4									
60107600	PIPE UNDERDRAINS 4"	FOOT	2633		2633							
60200105	CATCH BASINS, TYPE A, 4'-DIAMETER, TYPE 1 FRAME, OPEN LID	EACH	1		1							
60200805	CATCH BASINS, TYPE A, 4'-DIAMETER, TYPE 8 GRATE	EACH	21		21							
60201105	CATCH BASINS, TYPE A, 4'-DIAMETER, TYPE 11 FRAME AND GRATE	EACH	2		2							
60201340	CATCH BASINS, TYPE A, 4'-DIAMETER, TYPE 24 FRAME AND GRATE	EACH	89		89							
60206905	CATCH BASINS, TYPE C, TYPE 1 FRAME, OPEN LID	EACH	1		1							
60218400	MANHOLES, TYPE A, 4'-DIAMETER, TYPE 1 FRAME, CLOSED LID	EACH	74		74							
60221100	MANHOLES, TYPE A, 5'-DIAMETER, TYPE 1 FRAME, CLOSED LID	EACH	11		11							
60223800	MANHOLES, TYPE A, 6'-DIAMETER, TYPE 1 FRAME, CLOSED LID	EACH	3		3							
60236200	INLETS, TYPE A, TYPE 8 GRATE	EACH	3		3							
60236600	INLETS, TYPE A, TYPE 9 FRAME AND GRATE	EACH	7		7							
60236800	INLETS, TYPE A, TYPE 11 FRAME AND GRATE	EACH	8		8							
60237470	INLETS, TYPE A, TYPE 24 FRAME AND GRATE	EACH	81		81							
60249900	VALVE VAULTS, TYPE A, 5'-DIAMETER, TYPE 1 FRAME, CLOSED LID	EACH	9							2	7	
60250200	CATCH BASINS TO BE ADJUSTED	EACH	6		6							
60252800	CATCH BASINS TO BE RECONSTRUCTED	EACH	1		1							
60255500	MANHOLES TO BE ADJUSTED	EACH	19		19							
60257900	MANHOLES TO BE RECONSTRUCTED	EACH	6		6							

* SPECIALITY ITEM

FILE NAME = s:\102901\cadd sheets\sh-t-soq005.dgn	USER NAME = IDOT	DESIGNED - EJM	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SUMMARY OF QUANTITIES				F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		DRAWN - BK	REVISED -						330	128R-3	LAKE	518	9
	PLOT SCALE = 50.0000 ' / IN.	CHECKED - GFL	REVISED -		CONTRACT NO. 60953								
	PLOT DATE = 8/12/2011	DATE - 12/17/10	REVISED -		FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT								
				SCALE:		SHEET NO. OF SHEETS STA.		TO STA.					

Rev. 9-12-11

				CONSTRUCTION CODE							
				100% LAKE COUNTY						100% VILLAGE OF LIBERTYVILLE 0043	100% IDOT 0043
CODE NO.	ITEM	UNIT	TOTAL QUANTITY	ROADWAY 0003 URBAN	SN-049-0199 BRIDGE 0010 URBAN	BOX CULVERT 0040 URBAN	RETAINING WALL 0040 URBAN	TRAFFIC SIGNALS 0021 URBAN	LIGHTING URBAN 0021		
* 72900100	METAL POST - TYPE A	FOOT	758	758							
* 72800200	METAL POST - TYPE B	FOOT	689	689							
* 73100100	BASE FOR TELESCOPING STEEL SIGN SUPPORT	EACH	20	20							
* 78000100	THERMOPLASTIC PAVEMENT MARKING - LETTERS AND SYMBOLS	SQ FT	9.2	9.2							
* 78000200	THERMOPLASTIC PAVEMENT MARKING - LINE 4"	FOOT	1710	1710							
* 78008200	POLYUREA PAVEMENT MARKING TYPE I - LETTERS AND SYMBOLS	SQ FT	671	671							
* 78008210	POLYUREA PAVEMENT MARKING TYPE I - LINE 4"	FOOT	19066	19066							
* 78008230	POLYUREA PAVEMENT MARKING TYPE I - LINE 6"	FOOT	7764	7764							
* 78008240	POLYUREA PAVEMENT MARKING TYPE I - LINE 8"	FOOT	2231	2231							
* 78008250	POLYUREA PAVEMENT MARKING TYPE I - LINE 12"	FOOT	969	969							
* 78008270	POLYUREA PAVEMENT MARKING TYPE I - LINE 24"	FOOT	539	539							
* 78100100	RAISED REFLECTIVE PAVEMENT MARKER	EACH	825	825							
* 78100105	RAISED REFLECTIVE PAVEMENT MARKER (BRIDGE)	EACH	10	10							
* 78200410	GUARDRAIL MARKERS, TYPE A	EACH	113	113							
* 78200530	BARRIER WALL MARKERS, TYPE C	EACH	400	400							
* 78201000	TERMINAL MARKER - DIRECT APPLIED	EACH	27	27							
	78300100	PAVEMENT MARKING REMOVAL	SQ FT	11042	11042						
* 80400100	ELECTRIC SERVICE INSTALLATION	EACH	2						2		
* 80400200	ELECTRIC UTILITY SERVICE CONNECTION	L SUM	1						1		
	80500020	SERVICE INSTALLATION - POLE MOUNTED	EACH	2				2			
	81000300	CONDUIT IN TRENCH, 1" DIA., GALVANIZED STEEL	FOOT	100					100		
	81000600	CONDUIT IN TRENCH, 2" DIA., GALVANIZED STEEL	FOOT	16,357				16,267	90		
	81000700	CONDUIT IN TRENCH, 2 1/2" DIA., GALVANIZED STEEL	FOOT	79				79			
	81000800	CONDUIT IN TRENCH, 3" DIA., GALVANIZED STEEL	FOOT	87				87			
	81000900	CONDUIT IN TRENCH, 3 1/2" DIA., GALVANIZED STEEL	FOOT	14				14			
	81001000	CONDUIT IN TRENCH, 4" DIA., GALVANIZED STEEL	FOOT	60				60			
	81018500	CONDUIT PUSHED, 2" DIA., GALVANIZED STEEL	FOOT	2333				2333			
	81018600	CONDUIT PUSHED, 2 1/2" DIA., GALVANIZED STEEL	FOOT	98				98			
	81018700	CONDUIT PUSHED, 3" DIA., GALVANIZED STEEL	FOOT	790					790		
	81018900	CONDUIT PUSHED, 4" DIA., GALVANIZED STEEL	FOOT	1389				1389			
	81200100	CONDUIT EMBEDDED IN STRUCTURE, 1" DIA., GALVANIZED STEEL	FOOT	220					220		
	81200120	CONDUIT EMBEDDED IN STRUCTURE, 2" DIA., GALVANIZED STEEL	FOOT	231				231			
	81400100	HANDHOLE	EACH	36				36			
	81400200	HEAVY-DUTY HANDHOLE	EACH	6				6			
	81400300	DOUBLE HANDHOLE	EACH	5				5			

FILE NAME =

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USER NAME = IDOT

DESIGNED - EJM

DRAWN - BK

CHECKED - GFL

DATE - 12/17/10

REVISED -

REVISED -

REVISED -

REVISED -

STATE OF ILLINOIS

DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES

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

F.A.P. RTE. 330

SECTION 128R-3

FED. ROAD DIST. NO. 1 ILLINOIS

COUNTY LAKE

TOTAL SHEETS 518

FED. AID PROJECT

SHEET NO. 11

CONTRACT NO. 60953

Rev. 9-12-11

				CONSTRUCTION CODE							
				100% LAKE COUNTY						100% VILLAGE OF LIBERTYVILLE 0043	100% IDOT 0043
CODE NO.	ITEM	UNIT	TOTAL QUANTITY	ROADWAY 0003 URBAN	SN-049-0199 BRIDGE 0010 URBAN	BOX CULVERT 0040 URBAN	RETAINING WALL 0040 URBAN	TRAFFIC SIGNALS 0021 URBAN	LIGHTING URBAN 0021		
81603110	UNIT DUCT, 600V, 4-1C NO.4, 1/C NO.6 GROUND, (XLP-TYPE USE), 1 1/2" DIA. POLYETHYLENE	FOOT	3529						3529		
81700110	ELECTRIC CABLE IN CONDUIT, 600V (EPR-TYPE RHW) 1/C NO. 10	FOOT	960						960		
81701115	ELECTRIC CABLE IN CONDUIT, 600V (EPR-TYPE USE) 1/C NO. 2	FOOT	255						255		
81800320	AERIAL CABLE, 3-1/C NO. 4 WITH MESSENGER WIRE	FOOT	4118						4118		
81900200	TRENCH AND BACKFILL FOR ELECTRICAL WORK	FOOT	19,036					10,507	2529		
82102400	LUMINAIRE, SODIUM VAPOR, HORIZONTAL MOUNT, 400 WATT	EACH	46						46		
82500330	LIGHTING CONTROLLER, PEDESTAL MOUNTED, 240VOLT, 60AMP	EACH	1						1		
82500350	LIGHTING CONTROLLER, BASE MOUNTED, 240VOLT, 100AMP	EACH	1						1		
83050810	LIGHT POLE, ALUMINUM, 47.5 FT. M.H., 15 FT. MAST ARM	EACH	17						17		
83600200	LIGHT POLE FOUNDATION, 24" DIAMETER	FOOT	119						119		
83800505	BREAKAWAY DEVICE, COUPLING, WITH ALUMINUM SKIRT	EACH	18						18		
83800205	BREAKAWAY DEVICE, TRANSFORMER BASE, 15 INCH BOLT CIRCLE	EACH	17						17		
84100110	REMOVAL OF TEMPORARY LIGHTING UNIT	EACH	18						18		
84200500	REMOVAL OF LIGHTING UNIT, SALVAGE	EACH	9						9		
84200804	REMOVAL OF POLE FOUNDATION, 24" DIA.	EACH	9						9		
84500110	REMOVAL OF LIGHTING CONTROLLER	EACH	1						1		
84500120	REMOVAL OF ELECTRIC SERVICE INSTALLATION	EACH	1						1		
84500130	REMOVAL OF LIGHTING CONTROLLER FOUNDATION	EACH	1						1		
85000200	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	3					3			
X8570225	FULL-ACTUATED CONTROLLER AND CABINET, TYPE IV, SPECIAL	EACH	2					2			
86200120	UNINTERRUPTIBLE POWER SUPPLY	EACH	2					2			
87200400	SPAN WIRE	FOOT	3043					3043			
87300925	ELECTRIC CABLE IN CONDUIT, TRACER, NO. 14 1C	FOOT	27837					27837			
87301215	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C	FOOT	3692					3692			
87301225	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	5949					5949			
87301245	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	FOOT	5386					5386			
87301255	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C	FOOT	3133					3133			
87301305	ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1 PAIR	FOOT	9785					9785			
87301805	ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2 C	FOOT	64					64			
87502440	TRAFFIC SIGNAL POST, GALVANIZED STEEL 10 FT.	EACH	1					1			
87502500	TRAFFIC SIGNAL POST, GALVANIZED STEEL 16 FT.	EACH	6					6			
87702940	STEEL COMBINATION MAST ARM AND ASSEMBLY AND POLE, 42 FT.	EACH	1					1			
87703030	STEEL COMBINATION MAST ARM ASSEMBLY AND POLE, 60 FT.	EACH	1					1			
87703050	STEEL COMBINATION MAST ARM AND ASSEMBLY AND POLE, 64 FT.	EACH	2					2			
87703070	STEEL COMBINATION MAST ARM AND ASSEMBLY AND POLE, 66 FT.	EACH	1					1			
87703090	STEEL COMBINATION MAST ARM AND ASSEMBLY AND POLE, 70 FT.	EACH	1					1			
SPECIALITY ITEM											

FILE NAME =
u:\182901\cadd sheets\sh-t-soq808.dgn

USER NAME = IDOT

PLOT SCALE = 50.0000' / IN.
PLOT DATE = 8/12/2011

DESIGNED - EJM
DRAWN - BK
CHECKED - GFL
DATE - 12/17/10

REVISED -
REVISED -
REVISED -
REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES

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

Rev. 9-12-11

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
330	128R-3	LAKE	518	12
CONTRACT NO. 60953				

FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT

				CONSTRUCTION CODE							
				100% LAKE COUNTY							
				ROADWAY 0003 URBAN	SN-049-0199 BRIDGE 0010 URBAN	BOX CULVERT 0040 URBAN	RETAINING WALL 0040 URBAN	TRAFFIC SIGNALS 0021 URBAN	LIGHTING URBAN 0021	100% VILLAGE OF LIBERTYVILLE 0043	100% IDOT 0043
CODE NO.	ITEM	UNIT	TOTAL QUANTITY								
87800100	CONCRETE FOUNDATION, TYPE A	FOOT	28					28			
87800150	CONCRETE FOUNDATION, TYPE C	FOOT	8					8			
87800415	CONCRETE FOUNDATION, TYPE E 36-INCH DIAMETER	FOOT	13					13			
87800420	CONCRETE FOUNDATION, TYPE E 42-INCH DIAMETER	FOOT	109					109			
87900200	DRILL EXISTING HANDHOLE	EACH	4					4			
88030020	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST-ARM MOUNTED	EACH	14					14			
88030050	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED	EACH	1					1			
88030100	SIGNAL HEAD, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED	EACH	2					2			
88030110	SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST-ARM MOUNTED	EACH	5					5			
88030240	SIGNAL HEAD, LED, 2-FACE, 1-3 SECTION, 1-5 SECTION, BRACKET MOUNTED	EACH	5					5			
88102717	PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER	EACH	4					4			
88102747	PEDESTRIAN SIGNAL HEAD, LED, 2-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER	EACH	4					4			
88102757	PEDESTRIAN SIGNAL HEAD, LED, 3-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER	EACH	2					2			
88200210	TRAFFIC SIGNAL BACKPLATE, LOUVERED, ALUMINUM	EACH	19					19			
88500100	INDUCTIVE LOOP DETECTOR	EACH	28					28			
88600100	DETECTOR LOOP, TYPE I	FOOT	00					00			
88600700	PREFORMED DETECTOR LOOP	FOOT	1832					1832			
88700200	LIGHT DETECTOR	EACH	6							6	
88700300	LIGHT DETECTOR AMPLIFIER	EACH	2							2	
88800100	PEDESTRIAN PUSH-BUTTON	EACH	20					20			
89000100	TEMPORARY TRAFFIC SIGNAL INSTALLATION	EACH	2					2			
89502300	REMOVE ELECTRIC CABLE FROM CONDUIT	FOOT	25,211					17,111	8100		
89502375	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1					1			
89502380	REMOVE EXISTING HANDHOLE	EACH	17					17			
89502385	REMOVE EXISTING CONCRETE FOUNDATION	EACH	8					8			
X032735	AGGREGATE SUBGRADE 12", SPECIAL	SQ YD	116970	116970							
Z0004638	PAVEMENT BREAKING	SQ YD	19,475	19,475							
Z0005216	HOT-MIX ASPHALT STABILIZATION 6" AT STEEL PLATE BEAM GUARD RAIL	SQ YD	1433	1433							
Z0007118	UNTREATED TIMBER LAGGING	SQ FT	5468				5468				
Z0007430	TEMPORARY SIDEWALK	SQ FT	3000	3000							
Z0013302	SEGMENTAL CONCRETE BLOCK WALL	SQ FT	1120				1120				
Z0013797	STABILIZED CONSTRUCTION ENTRANCE	SQ YD	1678	1678							
Z0013798	CONSTRUCTION LAYOUT	L SUM	1	1							

SPECIALITY ITEM

FILE NAME =	USER NAME = IDOT	DESIGNED - EJM	REVISED -
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	PLOT SCALE = 50.0000' / IN.	CHECKED - GFL	REVISED -
	PLOT DATE = 8/12/2011	DATE - 12/17/10	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES

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

F.A.P. RTE. 330	SECTION 128R-3	COUNTY LAKE	TOTAL SHEETS 518	SHEET NO. 13
CONTRACT NO. 60953				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

				CONSTRUCTION CODE							
				100% LAKE COUNTY							
URBAN				ROADWAY 0003 URBAN	SN-049-0199 BRIDGE 0010 URBAN	BOX CULVERT 0040 URBAN	RETAINING WALL 0040 URBAN	TRAFFIC SIGNALS 0021 URBAN	LIGHTING URBAN 0021	100% VILLAGE OF LIBERTYVILLE 0043	100% IDOT 0043
CODE NO.	ITEM	UNIT	TOTAL QUANTITY								
Z0018500	DRAINAGE STRUCTURES TO BE CLEANED	EACH	10	10							
Z0022800	FENCE REMOVAL	FOOT	2700	2700							
Z0026402	FURNISHING SOLDIER PILES (HP SECTION)	FOOT	2905				2905				
Z0026407	TEMPORARY SHEET PILING	SQ FT	3775	432		1723	1620				
Z0030280	IMPACT ATTENUATORS, TEMPORARY (FULLY REDIRECTIVE, NARROW), TEST LEVEL 3	EACH	16	16							
Z0030850	TEMPORARY INFORMATION SIGNING	SQ FT	1000	1000							
Z0033020	LUMINAIRE SAFETY CABLE ASSEMBLY	EACH	46						46		
Z0033028	MAINTENANCE OF LIGHTING SYSTEM	CAL MO	18						18		
Z0042002	POROUS GRANULAR EMBANKMENT, SUBGRADE	CU YD	28780	23706		1844	3230				
Z0046304	PIPE UNDERDRAINS FOR STRUCTURES 4"	FOOT	1553		362		1191				
Z0056608	STORM SEWER (WATER MAIN REQUIREMENTS) 12 INCH	FOOT	100	100							
Z0056610	STORM SEWER (WATER MAIN REQUIREMENTS) 15 INCH	FOOT	100	100							
Z0056612	STORM SEWER (WATER MAIN REQUIREMENTS) 18 INCH	FOOT	100	100							
Z0056800	SANITARY SEWER 8"	FOOT	70							70	
Z0057100	SANITARY SEWER 12"	FOOT	466							466	
Z0062456	TEMPORARY PAVEMENT	SQ YD	5740	5740							
Z0064800	SELECTIVE CLEARING	UNIT	5	5							
Z0073002	TEMPORARY SOIL RETENTION SYSTEM	SQ FT	15585		5640	2345	7600				
Z0073345	SLEEPER SLAB	FOOT	401	401							
Z0073510	TEMPORARY TRAFFIC SIGNAL TIMING	EACH	2					2			
X0301797	GATE REMOVAL	EACH	2	2							
* X0324455	DRILLING AND SETTING SOLDIER PILES (IN SOIL)	CU FT	4445				4445				
X0325751	DRIVING SOLDIER PILES	FOOT	1763				1763				
X0325796	GATES TO BE REMOVED AND RE-ERECTED	EACH	1	1							
X0326309	RELOCATE EXISTING REMOTE-CONTROLLED VIDEO SYSTEM (SPECIAL)	EACH	1					1			
X0326309	RELOCATE EXISTING REMOTE-CONTROLLED VIDEO SYSTEM (SPECIAL)	EACH	1					1			
X0326310	RELOCATE EXISTING SWITCH (SPECIAL)	EACH	1					1			
X0326310	RELOCATE EXISTING SWITCH (SPECIAL)	EACH	1					1			
X0326658	CURED-IN-PLACE PIPE LINER, 10"	FOOT	777							265	512
X0326713	SANITARY SEWER CONNECTION	EACH	7							7	0
X0487800	SANITARY SEWER REMOVAL 12"	FOOT	486							486	0
X2070304	POROUS GRANULAR EMBANKMENT, SPECIAL	CU YD	749		304		445				
X2080250	TRENCH BACKFILL, SPECIAL	CU YD	1102							727	375
* X2501800	SEEDING CLASS 4 (MODIFIED)	ACRE	4.89	4.89							
* SPECIALITY ITEM											
FILE NAME =				DESIGNED - EJM				SUMMARY OF QUANTITIES			
USER NAME = IDOT				DRAWN - BK				F.A.P. RTE. 330			
PLOT SCALE = 50.0000' / IN.				CHECKED - GFL				SECTION 128R-3			
PLOT DATE = 8/12/2011				DATE - 12/17/10				COUNTY LAKE			
				REVISED -				TOTAL SHEETS 518			
				REVISED -				SHEET NO. 14			
				REVISED -				CONTRACT NO. 60953			
								FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT			

07POL07ROL

CONSTRUCTION CODE

100% LAKE COUNTY

URBAN

ROADWAY
0003
URBAN

SN-049-0199
BRIDGE
0010
URBAN

BOX CULVERT
0040
URBAN

RETAINING WALL
0040
URBAN

TRAFFIC SIGNALS
0021
URBAN

LIGHTING URBAN
0021

100%
VILLAGE OF
LIBERTYVILLE
0043

100%
IDOT
0043

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	ROADWAY 0003 URBAN	SN-049-0199 BRIDGE 0010 URBAN	BOX CULVERT 0040 URBAN	RETAINING WALL 0040 URBAN	TRAFFIC SIGNALS 0021 URBAN	LIGHTING URBAN 0021	100% VILLAGE OF LIBERTYVILLE 0043	100% IDOT 0043
* X2501820	SEEDING, CLASS 5 (MODIFIED)	ACRE	0.56	0.56							
* X2510635	HEAVY DUTY EROSION CONTROL BLANKET, SPECIAL	SQ YD	5490	5490							
* X2520701	SODDING, TYPE 1	SQ YD	782	782							
* X2520702	SODDING, TYPE 2	SQ YD	350	350							
* X2520703	SODDING, TYPE 3	SQ YD	1053	1053							
X4021000	TEMPORARY ACCESS (PRIVATE ENTRANCE)	EACH	11	11							
X4022000	TEMPORARY ACCESS (COMMERCIAL ENTRANCE)	EACH	33	33							
X4023000	TEMPORARY ACCESS (ROAD)	EACH	8	8							
X4402020	CONCRETE MEDIAN SURFACE REMOVAL	SQ FT	554	554							
X4402800	ISLAND PAVEMENT REMOVAL	SQ YD	90	90							
X5539700	STORM SEWERS TO BE CLEANED	FOOT	600	600							
X5610004	DUCTILE IRON WATER MAIN FITTINGS	POUND	2385							777	1608
X5610706	WATER MAIN REMOVAL, 6"	FOOT	496							373	123
X5610708	WATER MAIN REMOVAL, 8"	FOOT	935								935
X5610710	WATER MAIN REMOVAL, 10"	FOOT	27							27	
X5610712	WATER MAIN REMOVAL, 12"	FOOT	250								250
X6020096	MANHOLES, TYPE A, 6"-DIAMETER, WITH 2 TYPE 1 FRAME, CLOSED LID, RESTRICTOR PLATE	EACH	3	3							
X6022820	MANHOLES, SANITARY, 5'-DIAMETER, TYPE 1 FRAME, CLOSED LID	EACH	6							4	2
X6023508	INLETS, TYPE A, WITH SPECIAL FRAME AND GRATE	EACH	2	2							
X6026054	SANITARY MANHOLES TO BE REMOVED	EACH	3							3	
X6026622	VALVE VAULTS TO BE REMOVED	EACH	5							2	3
X6700410	ENGINEER'S FIELD OFFICE, TYPE A(SPECIAL)	CAL MO	20	20							
X7010216	TRAFFIC CONTROL AND PROTECTION, (SPECIAL)	L SUM	1	1							
X7030025	WET REFLECTIVE TEMPORARY TAPE, TYPE III - LETTERS AND SYMBOLS	SQ FT	1161.6	1161.6							
X7030030	WET REFLECTIVE TEMPORARY TAPE TYPE III, 4 INCH	FOOT	86695	86695							
X7030040	WET REFLECTIVE TEMPORARY TAPE TYPE III, 6 INCH	FOOT	6515	6515							
X7030055	WET REFLECTIVE TEMPORARY TAPE TYPE III, 24 INCH	FOOT	800	800							
* X7240600	REMOVE AND RE-ERECT EXISTING SIGN	EACH	2	2							
* X8710029	FIBER OPTIC CABLE 24 FIBERS, SINGLE MODE	FOOT	27837					27837			
* X8730250	ELECTRIC CABLE IN CONDUIT NO. 20 3/C, TWISTED, SHIELDED	FOOT	1702							1702	
* X8900030	REMOVE EXISTING TEMPORARY TRAFFIC SIGNAL EQUIPMENT	EACH	1					1			
XX000610	RELOCATE EXISTING MAILBOX	EACH	18	18							
* XX001186	PLANTER REMOVAL	EACH	3	3							

* SPECIALITY ITEM

FILE NAME =
u:\02\901\cadd sheets\sh-t-soq011.dgn

USER NAME = IDOT

DESIGNED - EJM
DRAWN - BK
CHECKED - GFL
PLOT DATE = 8/12/2011

REVISED -
REVISED -
REVISED -
REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

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

F.A.P.
RTE.
330

SECTION
128R-3

COUNTY
LAKE

TOTAL
SHEETS
518

SHEET
NO.
15

CONTRACT NO. 60953

FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT

Rev. 9-12-11

[illegible]

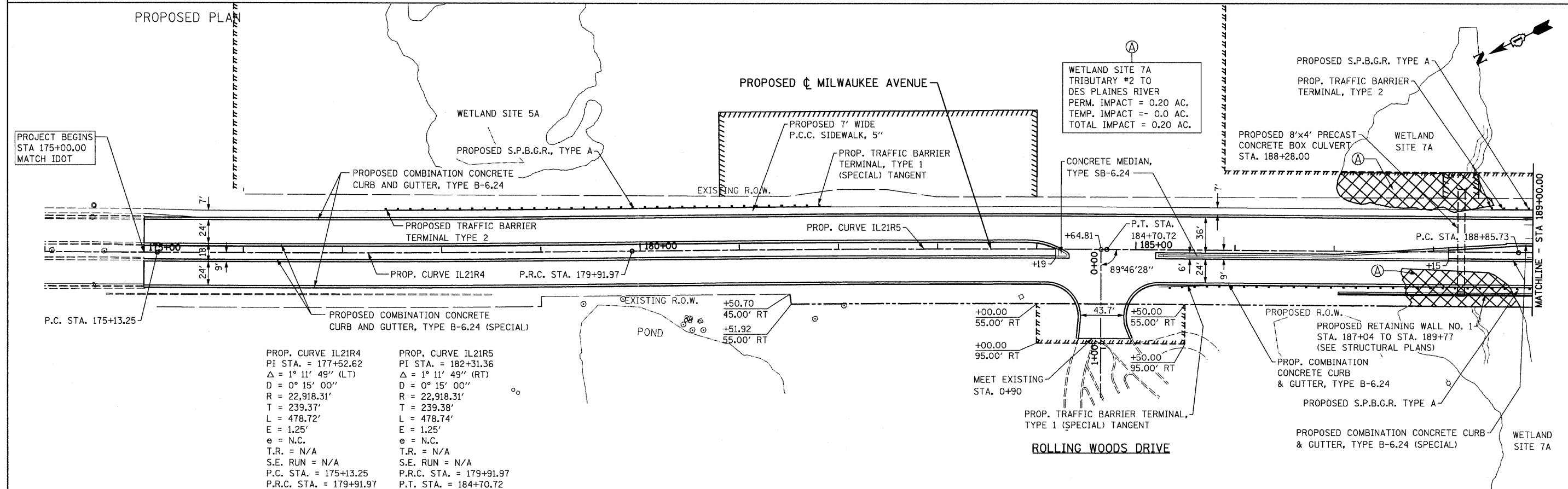
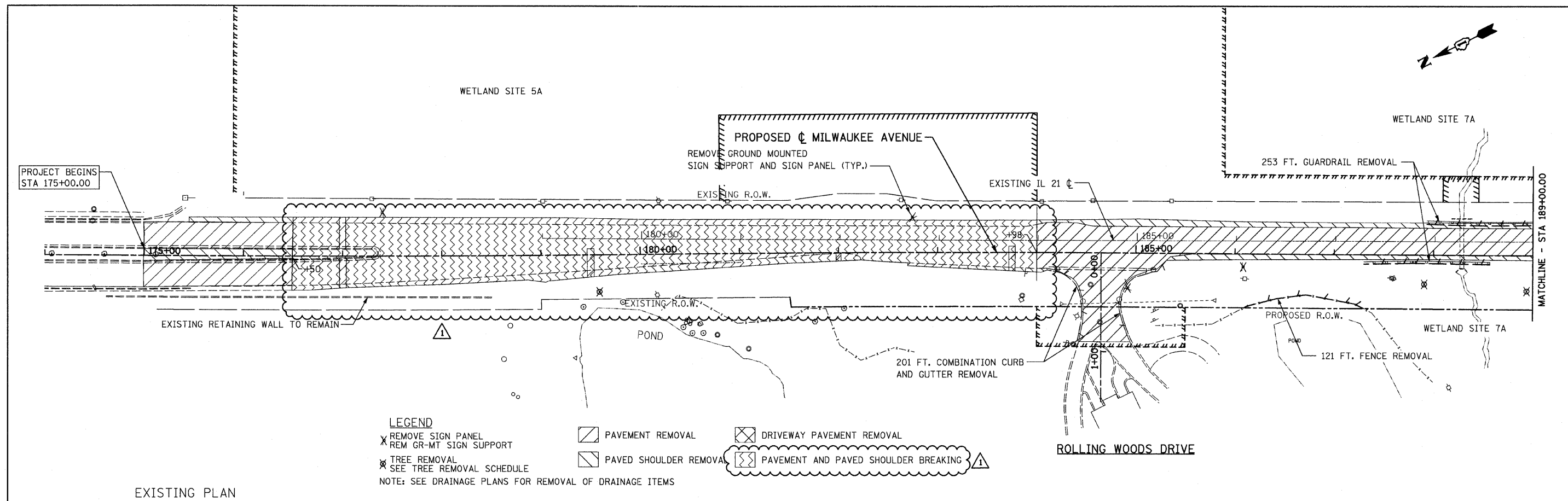
LOCATION	STATION	OFFSET	LT/RT	20100110	20100210
				TREE REMOVAL	TREE REMOVAL
				6 TO 15 UNITS	OVER 15 UNITS
				(UNITS)	(UNITS)
IL ROUTE 21 (MILWAUKEE AVENUE)	254+42	44	RT	8	
IL ROUTE 21 (MILWAUKEE AVENUE)	254+61	44	RT	13	
IL ROUTE 21 (MILWAUKEE AVENUE)	254+75	44	RT	10	
IL ROUTE 21 (MILWAUKEE AVENUE)	254+88	45	RT		22
IL ROUTE 21 (MILWAUKEE AVENUE)	254+91	35	RT		16
IL ROUTE 21 (MILWAUKEE AVENUE)	255+03	37	RT	14	
IL ROUTE 21 (MILWAUKEE AVENUE)	255+04	43	RT		24
IL ROUTE 21 (MILWAUKEE AVENUE)	255+49	42	RT		42
IL ROUTE 21 (MILWAUKEE AVENUE)	256+43	46	RT	10	
IL ROUTE 21 (MILWAUKEE AVENUE)	256+48	51	RT		18
IL ROUTE 21 (MILWAUKEE AVENUE)	256+50	52	RT	8	
IL ROUTE 21 (MILWAUKEE AVENUE)	256+55	53	RT	10	
IL ROUTE 21 (MILWAUKEE AVENUE)	256+58	44	RT	6	
IL ROUTE 21 (MILWAUKEE AVENUE)	256+71	66	RT	14	
IL ROUTE 21 (MILWAUKEE AVENUE)	256+73	41	RT	8	
IL ROUTE 21 (MILWAUKEE AVENUE)	256+80	48	RT	6	
IL ROUTE 21 (MILWAUKEE AVENUE)	256+91	58	RT	11	
IL ROUTE 21 (MILWAUKEE AVENUE)	256+94	51	RT	13	
IL ROUTE 21 (MILWAUKEE AVENUE)	256+99	41	RT	8	
IL ROUTE 21 (MILWAUKEE AVENUE)	257+02	44	RT	14	
IL ROUTE 21 (MILWAUKEE AVENUE)	257+13	59	RT	6	
IL ROUTE 21 (MILWAUKEE AVENUE)	257+16	56	RT		20
IL ROUTE 21 (MILWAUKEE AVENUE)	257+16	47	RT		18
IL ROUTE 21 (MILWAUKEE AVENUE)	257+16	52	RT		18
IL ROUTE 21 (MILWAUKEE AVENUE)	257+31	34	RT		18
IL ROUTE 21 (MILWAUKEE AVENUE)	257+40	36	RT		16
IL ROUTE 21 (MILWAUKEE AVENUE)	257+56	49	RT		17
IL ROUTE 21 (MILWAUKEE AVENUE)	257+59	47	RT	9	
IL ROUTE 21 (MILWAUKEE AVENUE)	257+59	46	RT	9	
IL ROUTE 21 (MILWAUKEE AVENUE)	257+64	49	RT	14	
IL ROUTE 21 (MILWAUKEE AVENUE)	257+66	45	RT	11	
IL ROUTE 21 (MILWAUKEE AVENUE)	257+68	56	RT	7	
IL ROUTE 21 (MILWAUKEE AVENUE)	257+68	50	RT	7	
IL ROUTE 21 (MILWAUKEE AVENUE)	257+73	46	RT	10	
IL ROUTE 21 (MILWAUKEE AVENUE)	257+79	52	RT	12	
IL ROUTE 21 (MILWAUKEE AVENUE)	257+90	55	RT	6	
IL ROUTE 21 (MILWAUKEE AVENUE)	258+15	55	RT		20
IL ROUTE 21 (MILWAUKEE AVENUE)	258+54	47	RT	13	
IL ROUTE 21 (MILWAUKEE AVENUE)	259+24	47	RT	14	
IL ROUTE 21 (MILWAUKEE AVENUE)	259+31	25	RT		24
IL ROUTE 21 (MILWAUKEE AVENUE)	259+44	49	RT	12	
IL ROUTE 21 (MILWAUKEE AVENUE)	259+52	33	RT	6	
IL ROUTE 21 (MILWAUKEE AVENUE)	259+56	50	RT		20
IL ROUTE 21 (MILWAUKEE AVENUE)	259+87	33	RT		26
IL ROUTE 21 (MILWAUKEE AVENUE)	261+61	33	RT		40
IL ROUTE 21 (MILWAUKEE AVENUE)	261+86	51	RT	10	
IL ROUTE 21 (MILWAUKEE AVENUE)	262+27	39	RT	12	
IL ROUTE 21 (MILWAUKEE AVENUE)	262+51	31	RT	12	
IL ROUTE 21 (MILWAUKEE AVENUE)	262+76	32	RT		18
IL ROUTE 21 (MILWAUKEE AVENUE)	262+95	39	RT	10	
IL ROUTE 21 (MILWAUKEE AVENUE)	263+09	38	RT		28
IL ROUTE 21 (MILWAUKEE AVENUE)	263+21	37	RT		20
IL ROUTE 21 (MILWAUKEE AVENUE)	263+29	36	RT	10	
IL ROUTE 21 (MILWAUKEE AVENUE)	263+58	40	RT		32
IL ROUTE 21 (MILWAUKEE AVENUE)	263+93	37	RT	12	
IL ROUTE 21 (MILWAUKEE AVENUE)	264+11	43	RT	8	
IL ROUTE 21 (MILWAUKEE AVENUE)	264+51	40	RT		24
IL ROUTE 21 (MILWAUKEE AVENUE)	266+60	44	RT		30
IL ROUTE 21 (MILWAUKEE AVENUE)	266+77	46	RT		36
IL ROUTE 21 (MILWAUKEE AVENUE)	268+21	55	RT		25
IL ROUTE 21 (MILWAUKEE AVENUE)	275+54	50	LT	8	
IL ROUTE 21 (MILWAUKEE AVENUE)	275+65	73	LT	8	
IL ROUTE 21 (MILWAUKEE AVENUE)	275+67	71	LT		17
IL ROUTE 21 (MILWAUKEE AVENUE)	280+64	50	LT	24	
IL ROUTE 21 (MILWAUKEE AVENUE)	282+02</				

LOCATION / ALIGNMENT	STATION		40603080	40603335	42000416	48101100	48300415	Z0001055
	FROM	TO	HMA BC IL- 19.0 N50	HMA SC "D" N50	PCC PVT 9 3/4 JOINTED	AGGREGATE SHLDS A 12	PCC SHOULDERS 9 3/4	AGG SUBGRADE 12 (SPECIAL)
			TON	TON	SQ YD	SQ YD	SQ YD	SQ YD
IL ROUTE 21 (MILWAUKEE AVENUE)	175+00	189+00			8395			10260
IL ROUTE 21 (MILWAUKEE AVENUE)	189+00	204+00			8753			11070
EGLI LANE	528+00	529+03	133	33		6		
IL ROUTE 21 (MILWAUKEE AVENUE)	204+00	219+00			9277			13518
CASEY ROAD	515+54	518+43	922	230		27		
IL ROUTE 21 (MILWAUKEE AVENUE)	219+00	233+00			8210			10032
IL ROUTE 21 (MILWAUKEE AVENUE)	233+00	248+00			8824			11289
IL ROUTE 21 (MILWAUKEE AVENUE)	248+00	263+00			8361			10206
BROOKHILL ROAD	507+00	509+28	258	65		13		
IL ROUTE 21 (MILWAUKEE AVENUE)	263+00	277+00			17096			19191
JANAS COURT	498+50	499+17	77	19		4		
IL ROUTE 21 (MILWAUKEE AVENUE)	277+00	291+15.93			9657			12801
FINSTAD DRIVE	7+50	9+34	195	49				
IL ROUTE 137 (BUCKLEY ROAD)	451+00	457+75			5004		286	6528
IL ROUTE 137 (BUCKLEY ROAD)	462+50	471+19.84			6025		322	7278
PEDESTRIAN UNDERPASS TRAIL	7+40	9+50	26.1					
PEDESTRIAN UNDERPASS TRAIL	10+50	10+60	1.2					
PEDESTRIAN UNDERPASS CONNECTOR TRAIL	98+88.72	100+00	11.1					
DOGPARK	11+15	14+35	302.2					
		TOTAL	1925.7	396	89602	50	608	112173
		USE	1926	396	89602	50	608	116970*
*TOTAL INCLUDES QUANTITY FROM DRIVEWAY SCHEDULE								

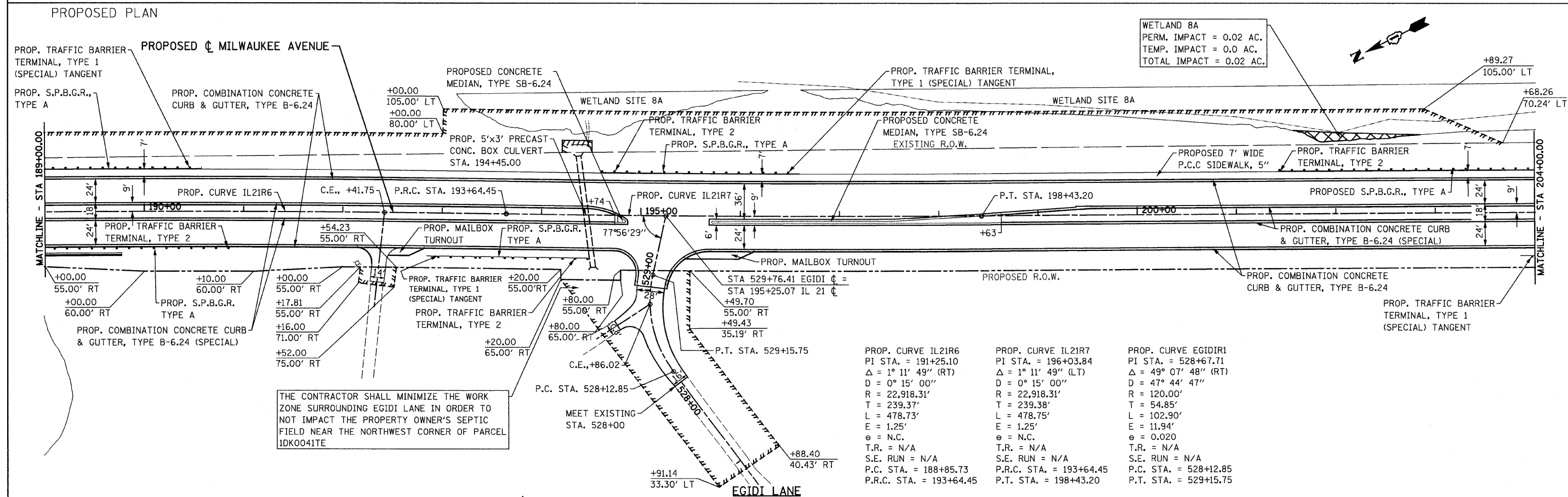
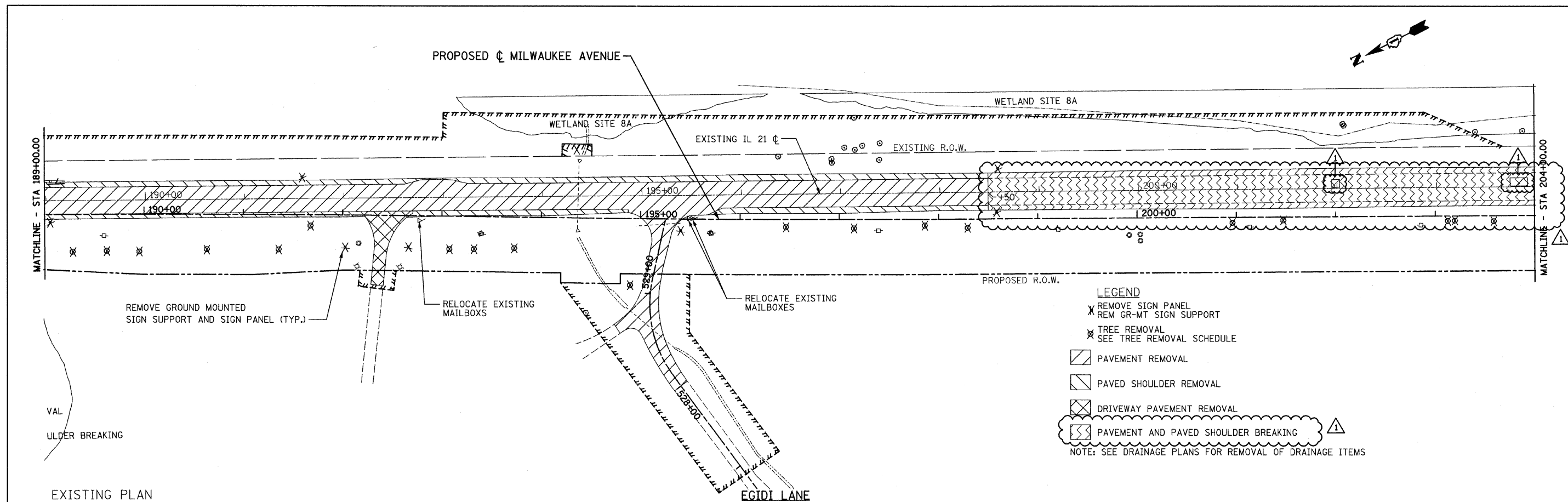
LOCATION / ALIGNMENT	STATION		60600605	60603500	60603800	60605000	60605300	60608600
	FROM	TO	CONC	COMB CC&G	COMB CC&G	COMB CC&G	COMB CC&G	COMB CC&G
			CURB TB	TB.06	TB.12	TB.24	TB.24 (SP)	TB.06
			FOOT	FOOT	FOOT	FOOT	FOOT	FOOT
IL ROUTE 21 (MILWAUKEE AVE)	175+00	189+00	--	--		2829	1991	--
IL ROUTE 21 (MILWAUKEE AVE)	189+00	204+00	142	--		3010	2197	--
IL ROUTE 21 (MILWAUKEE AVE)	204+00	219+00	14	--		3131	2576	28
IL ROUTE 21 (MILWAUKEE AVE)	219+00	233+00	149	--	40	2677	1885	--
IL ROUTE 21 (MILWAUKEE AVE)	233+00	248+00	288	--	0	2673	2257	--
IL ROUTE 21 (MILWAUKEE AVE)	248+00	263+00	272	--	219	2424	1657	--
IL ROUTE 21 (MILWAUKEE AVE)	263+00	277+00	432	72	92	2907	--	44
IL ROUTE 21 (MILWAUKEE AVE)	277+00	291+15.93	604	--	425	2425	--	--
IL ROUTE 137 (BUCKLEY ROAD)	451+00	457+75	715	--	0	1212	--	--
IL ROUTE 137 (BUCKLEY ROAD)	462+50	471+19.84	--	--	266	1695	--	--
DOG PARK PARKING LOT					893			
		TOTAL	2616	72	1935	24983	12563	72

LOCATION / ALIGNMENT	STATION		60620000	60622000	60623200
	FROM	TO	CONC MED T SB-6.24	CONC MED TSM2.12	CONC MED TSM6.24
			(SQ FT)	(SQ FT)	(SQ FT)
IL ROUTE 21 (MILWAUKEE AVE)	175+00	189+00	2204		
IL ROUTE 21 (MILWAUKEE AVE)	189+00	204+00	2195		
IL ROUTE 21 (MILWAUKEE AVE)	204+00	219+00	1376		
IL ROUTE 21 (MILWAUKEE AVE)	219+00	233+00	3102		
IL ROUTE 21 (MILWAUKEE AVE)	233+00	248+00	2080		
IL ROUTE 21 (MILWAUKEE AVE)	248+00	263+00	3889		
IL ROUTE 21 (MILWAUKEE AVE)	263+00	277+00	9243		1260
IL ROUTE 21 (MILWAUKEE AVE)	277+00	291+15.93	1405	13472	
IL ROUTE 137 (BUCKLEY ROAD)	451+00	457+75	1048	2960	
IL ROUTE 137 (BUCKLEY ROAD)	462+50	471+19.84	1248	4640	
		TOTAL	27790	21072	1260

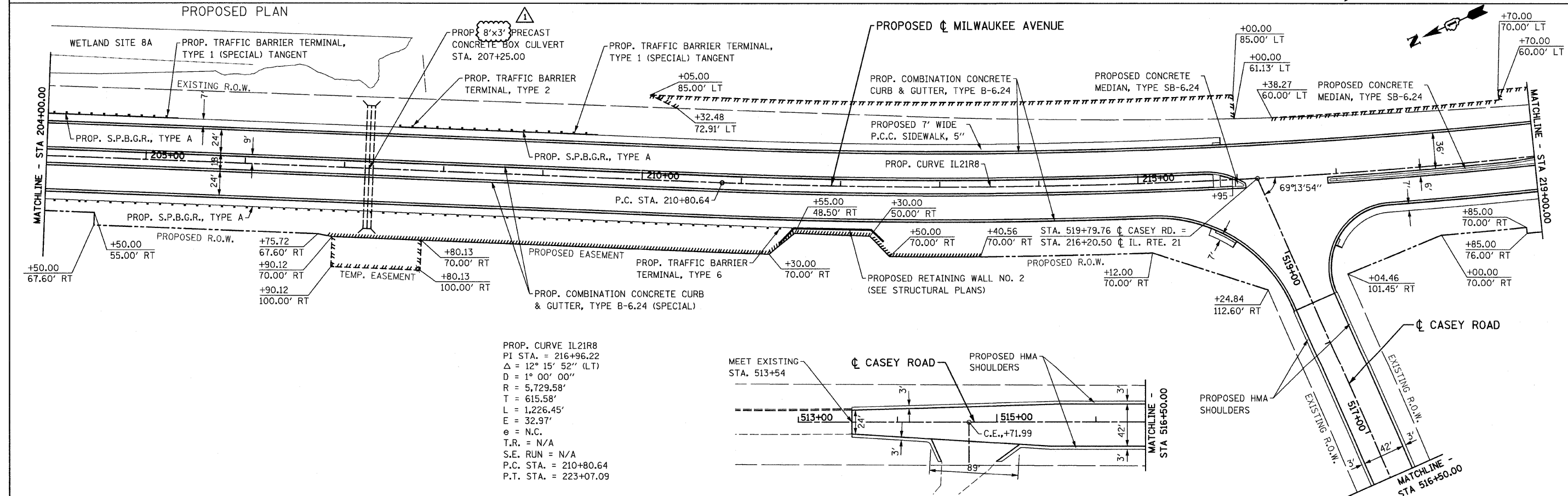
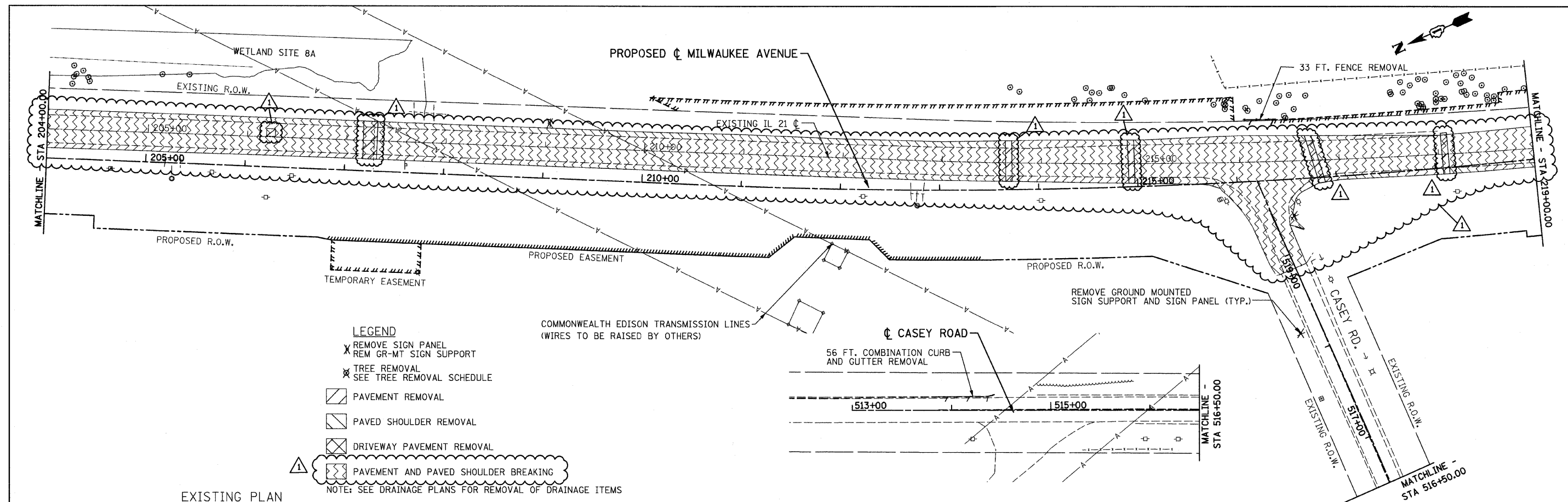
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		DRAWN - BK	REVISED -							330	128R-3	LAKE	518	17
	PLOT SCALE = 50.0000' / 1in.	CHECKED - GFL	REVISED -		CONTRACT NO. 60953					FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				
	PLOT DATE = 8/30/2011	DATE - 12/17/10	REVISED -											
					SCALE:	SHEET NO.	OF	SHEETS	STA.	TO	STA.			



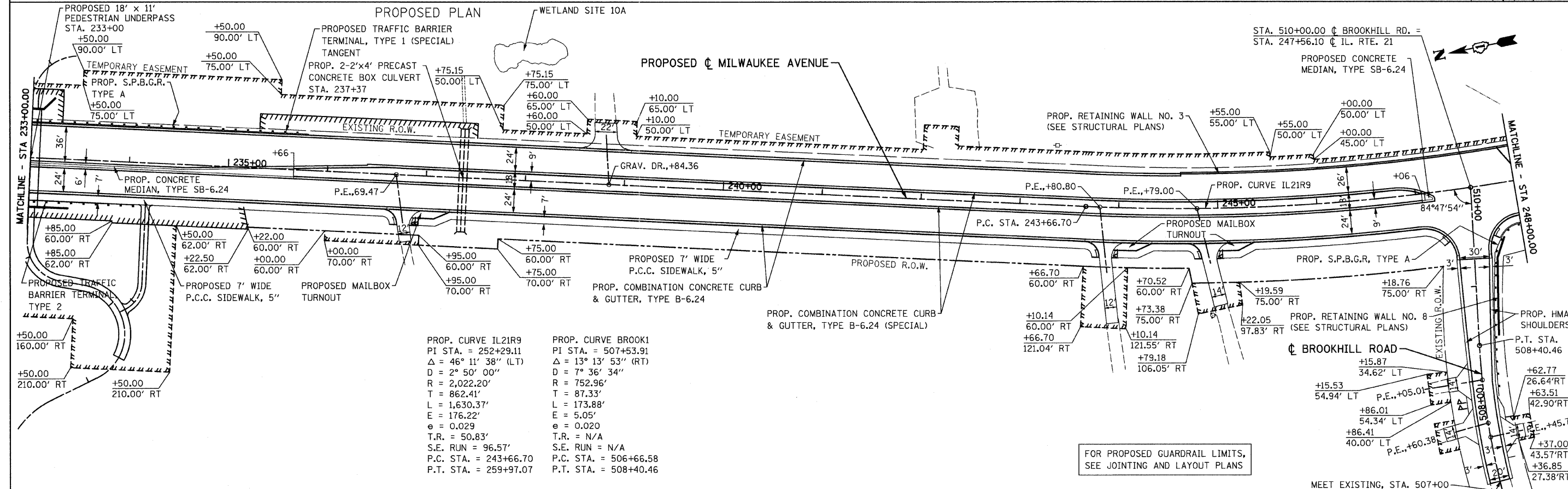
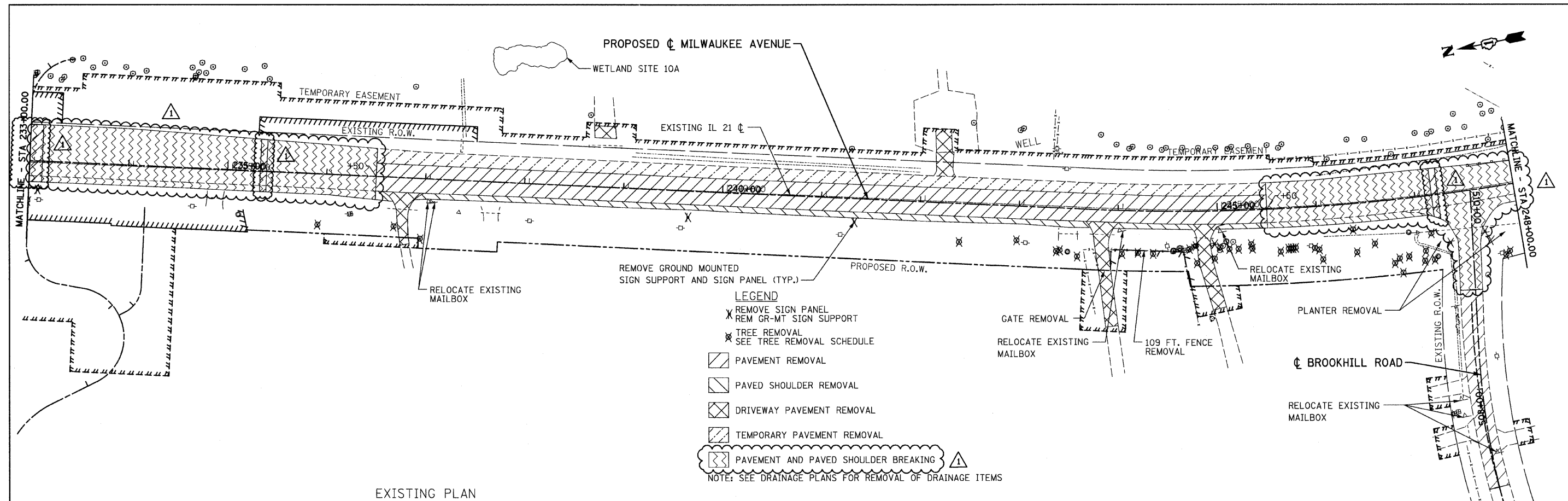
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PLOT DATE = 9/2/2011		DATE - 4/30/2011	REVISED -			ILLINOIS FED. AID PROJECT				



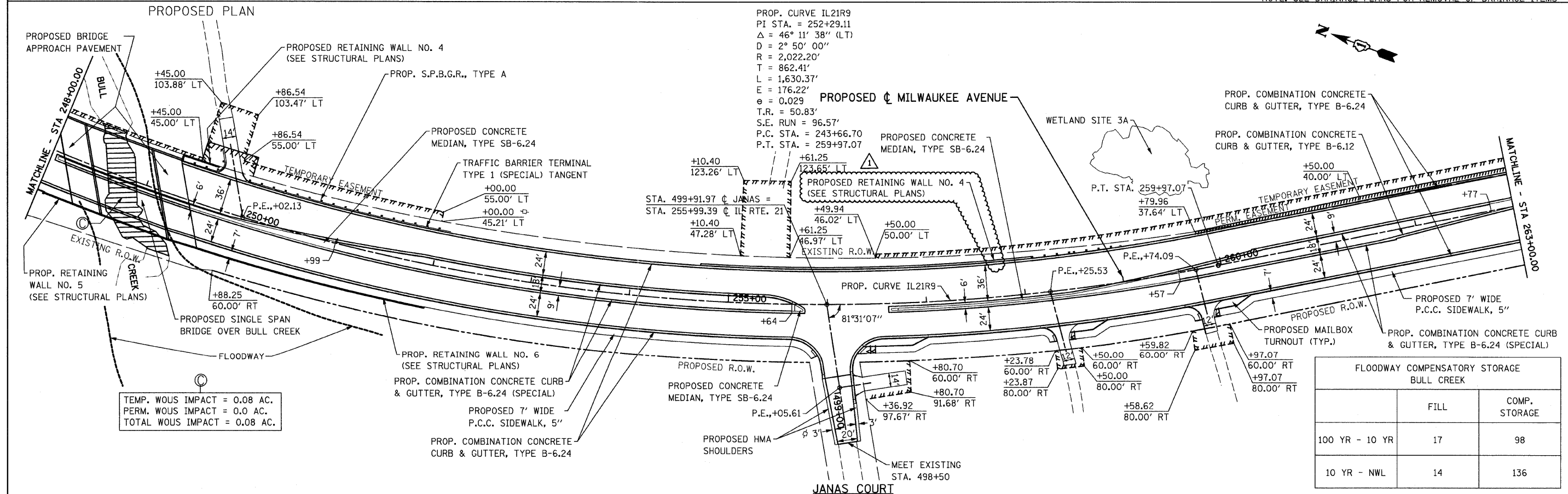
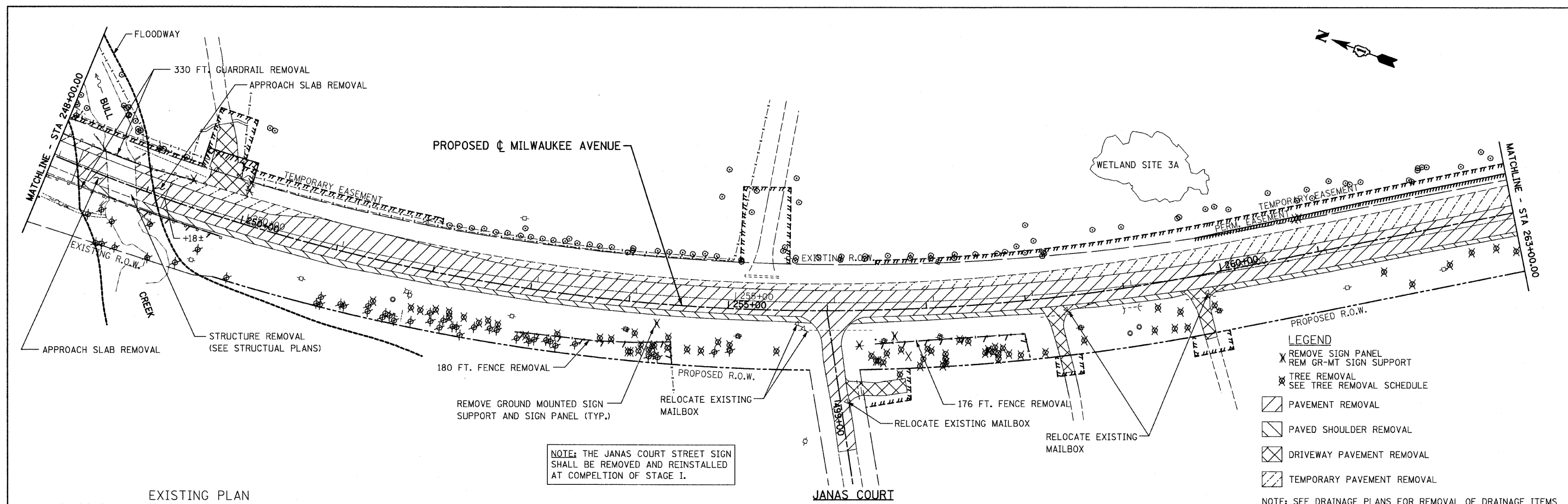
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h:\102901\CADD Sheets\sh-t-plan02.dgn		DRAWN - BK	REVISED -					330	128R-3	LAKE	518	41
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PLOT DATE = 9/6/2011		DATE - 4/30/2011	REVISED -									
				SCALE: 1" = 50' SHEET NO. OF SHEETS STA. 189+00.00 TO STA. 204+00.00				CONTRACT NO. 60953 ILLINOIS FED. AID PROJECT				

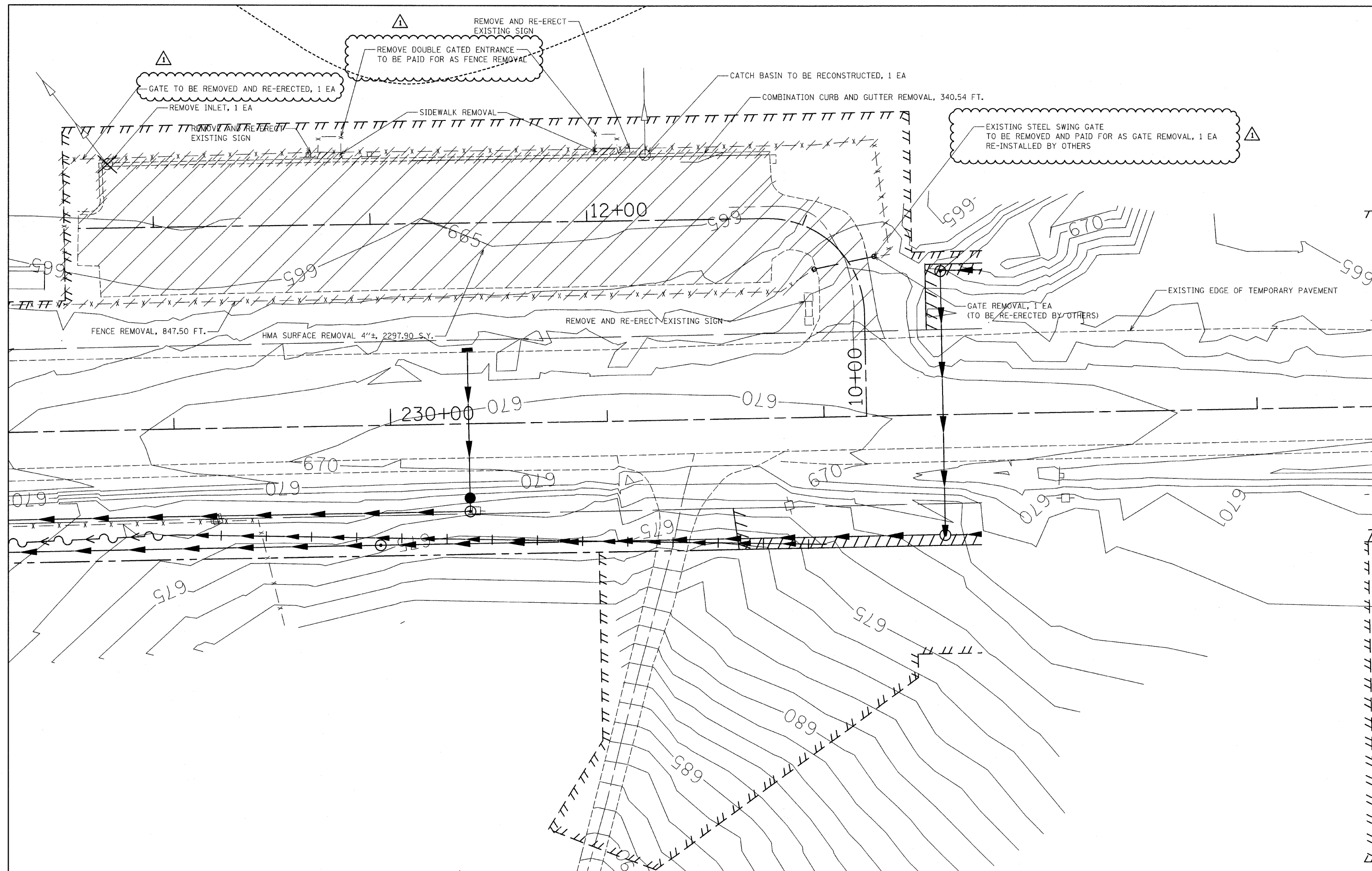


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												ILLINOIS FED. AID PROJECT				

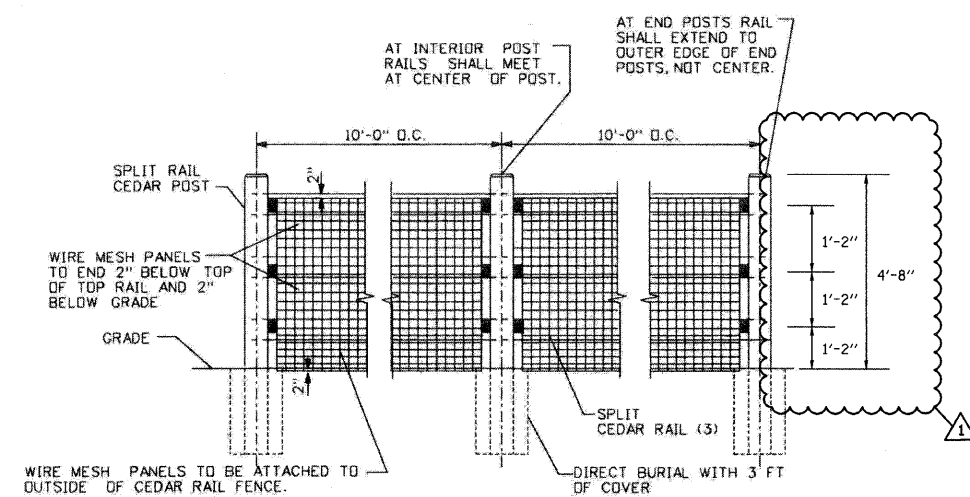


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		DRAWN - BK	REVISED -		330	128R-3	LAKE	518	44				
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	PLOT DATE = 9/2/2011	DATE - 4/30/2011	REVISED -		SCALE: 1" = 50'		SHEET NO. OF SHEETS	STA. 233+00.00 TO STA. 248+00.00		ILLINOIS FED. AID PROJECT			



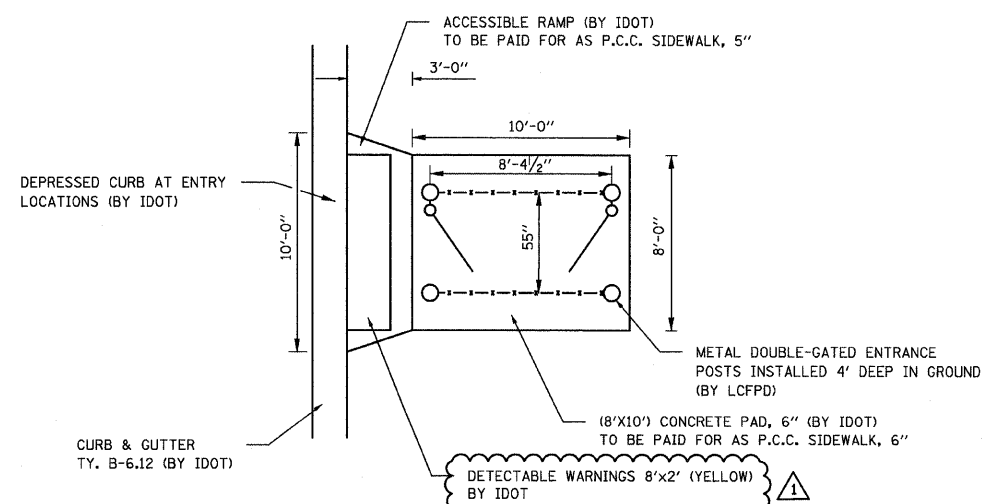


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I:\102901\CADD Sheets\st-dogpark-underpass.dgn		DRAWN - BK	REVISED -							330	128R-3	LAKE	518	50
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PLOT DATE = 8/31/2011		DATE - 12/17/10	REVISED -											
					SCALE: 1" = 20'		SHEET NO. OF SHEETS STA. TO STA.		FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT					



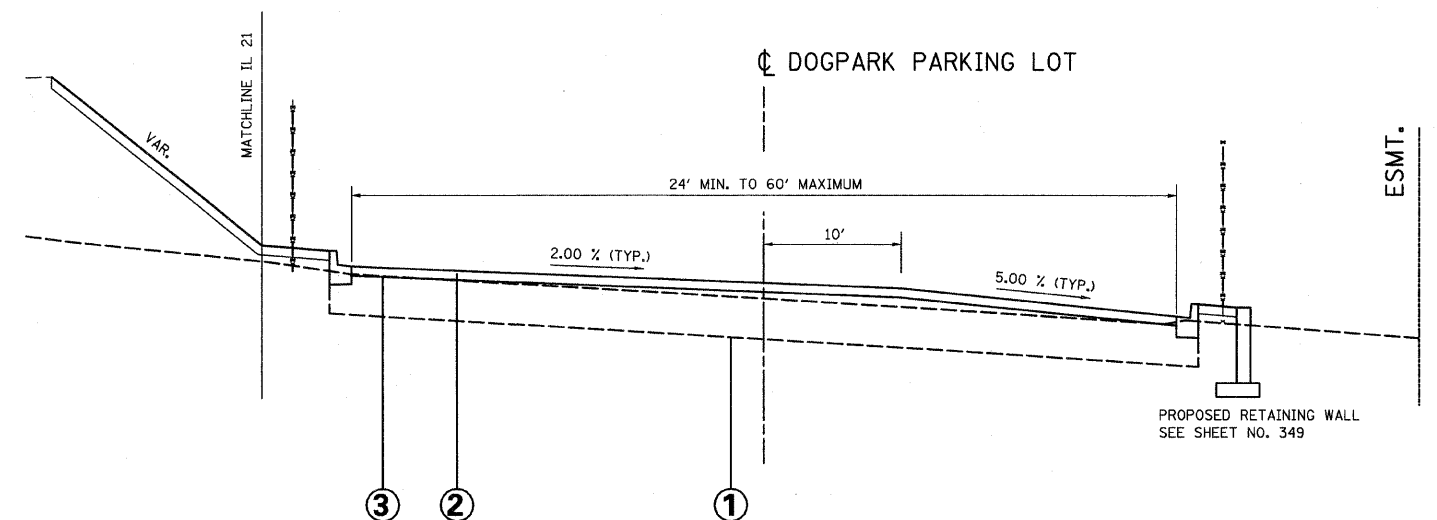
ELEVATION CEDAR 3-RAIL SPLIT-RAIL FENCE WITH WIRE MESH

N.T.S.



ACCESSIBLE RAMP AND CONCRETE PAD DETAIL

N.T.S.



TYPICAL SECTION FOR HMA OVERLAY

N.T.S.

- ① AGGREGATE BASE COURSE TYPE B (12" MAX)
- ② PROPOSED HMA SURFACE COURSE, MIX 'C' N50, (IL 9.5 MM, 1 1/2" MIN.
- ③ PROPOSED HMA BINDER COURSE, IL 19.0, N50, 2 1/2"

NOTE:
EXISTING AGGREGATE SURFACE PARKING LOT
(DEPTH AND CROSS-SECTION MAY VARY), EXISTING
AGGREGATE TO BASE TO BE GRADED, ROLL TESTED,
AND COMPACTED IN PREPARATION FOR HMA PLACEMENT

FILE NAME =	USER NAME = IDOT	DESIGNED - PDK	REVISED - 09/02/11 J.V.
I:\102901\CADD Sheets\DETAILS\dogparkdetails.dgn		DRAWN - MJG	REVISED -
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PLOT DATE = 8/31/2011		DATE - 12/17/10	REVISED -

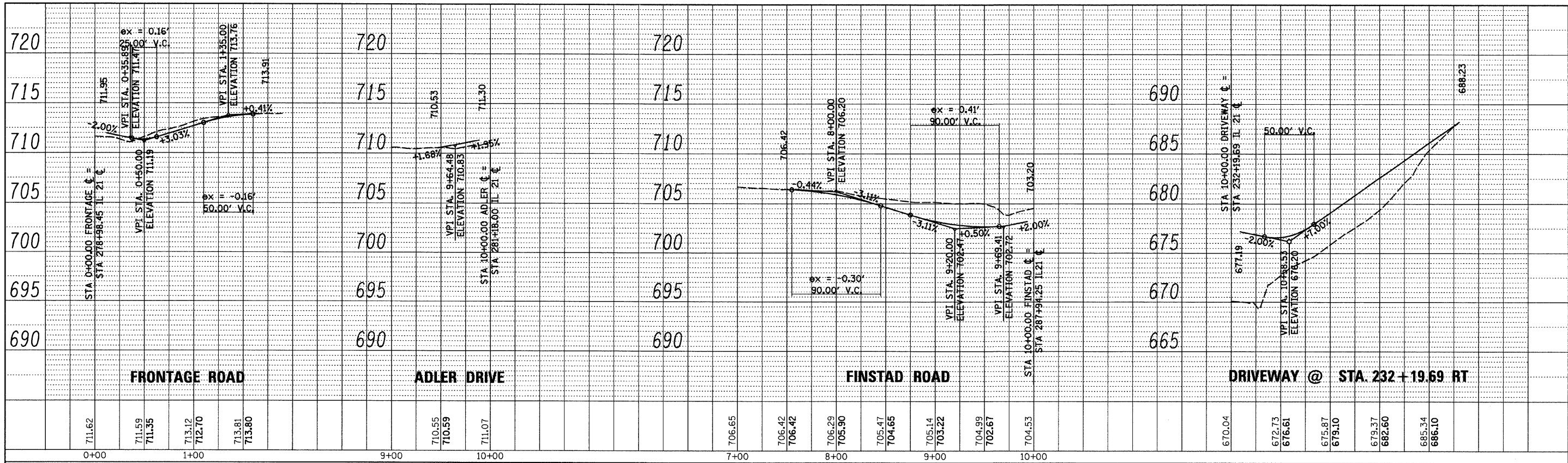
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

DOG PARK PARKING LOT DETAILS

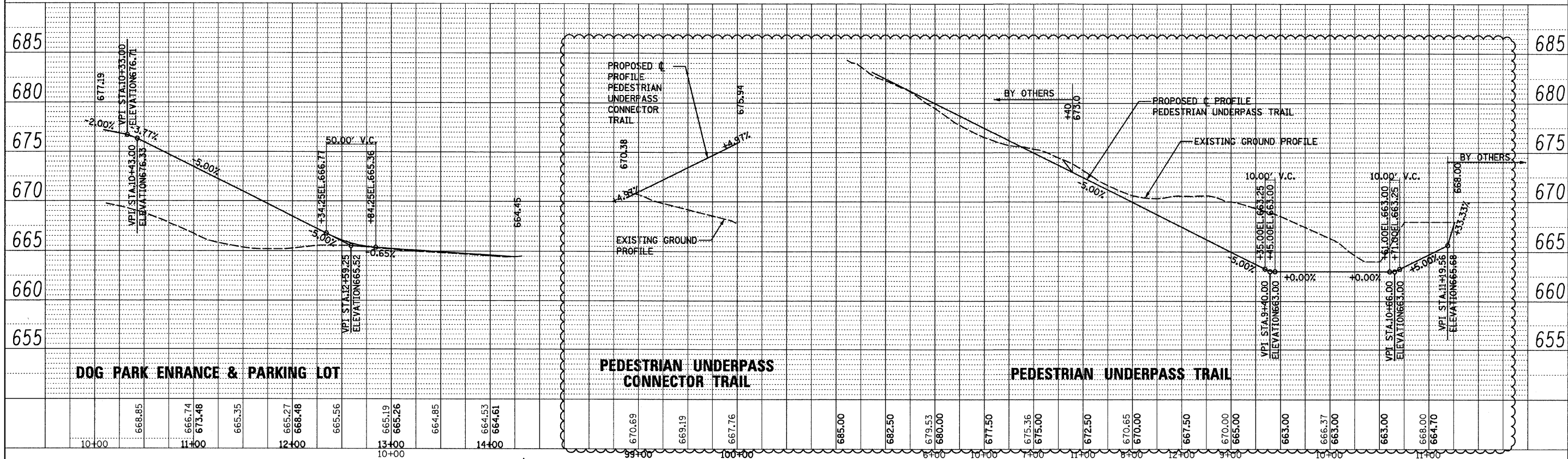
SCALE: SHEET NO. OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
330	128R-3	LAKE	518	51A
CONTRACT NO. 60953				
ILLINOIS FED. AID PROJECT				

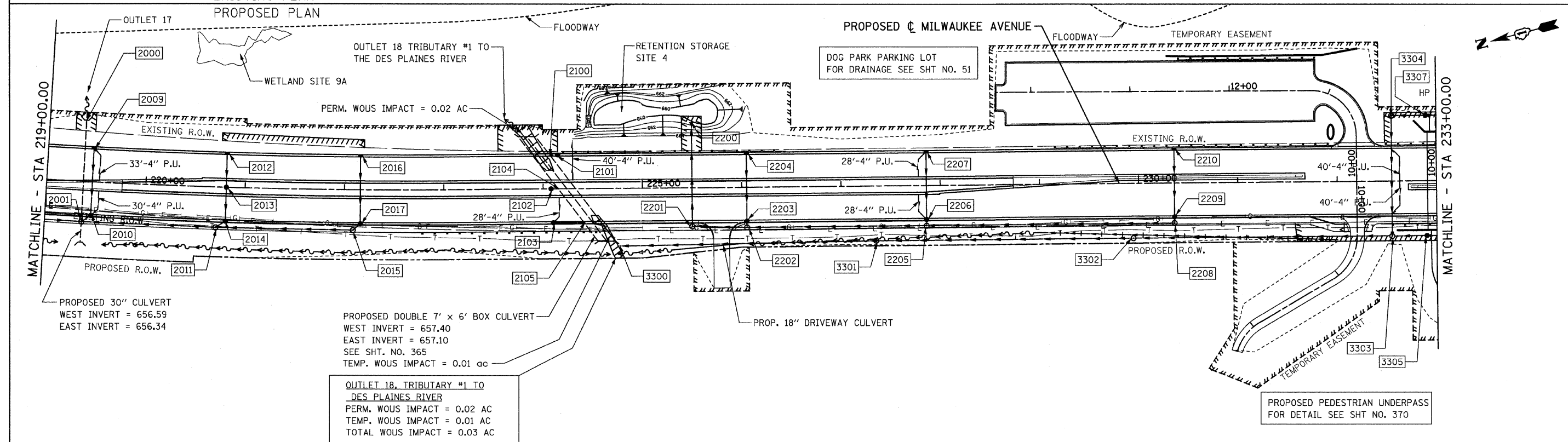
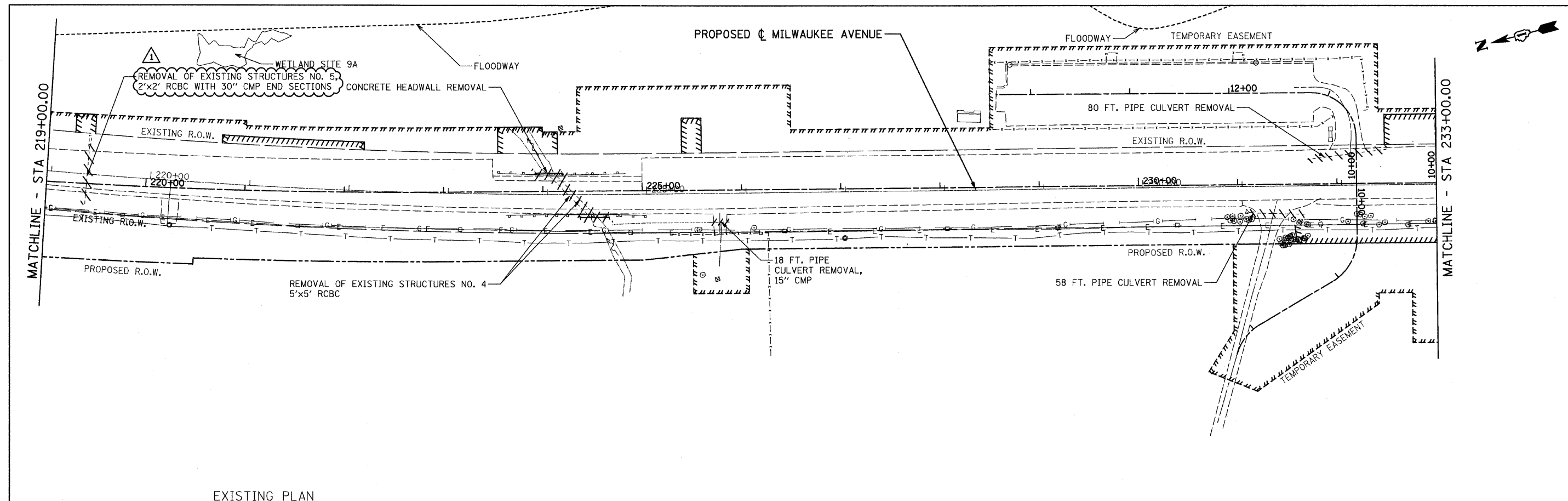
PLAN	REVIEWED	BY	DATE
NOTE BOOK	ALIGNMENT CHECKED		
NO.	FILE NAME		



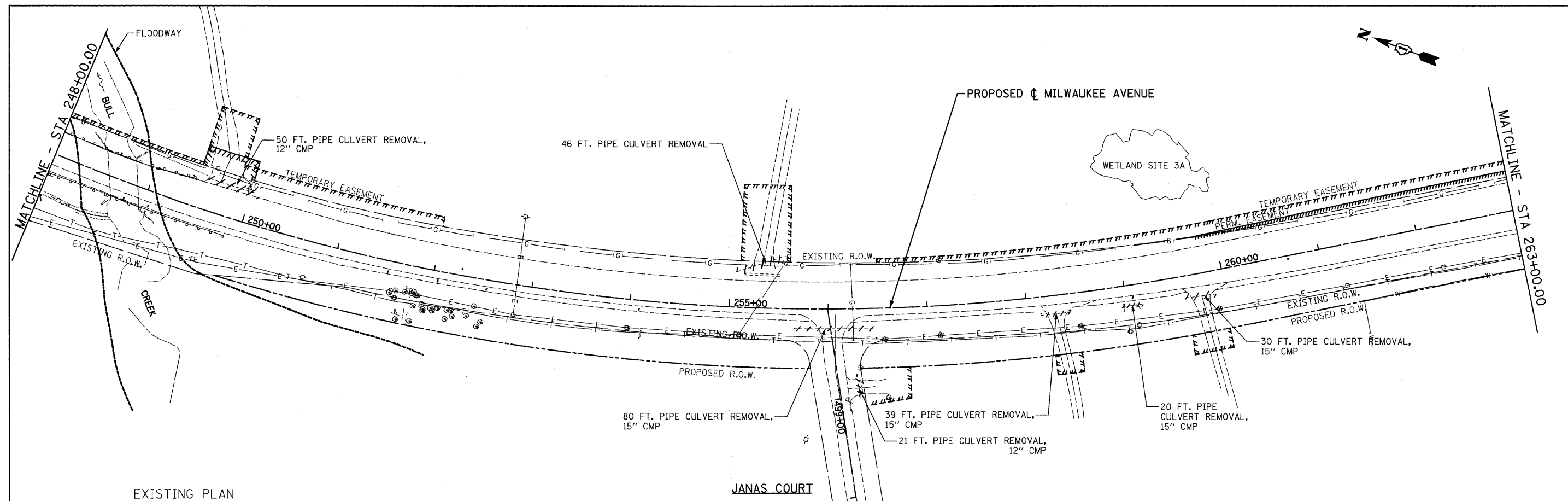
PROFILE	REVIEWED	BY	DATE
NOTE BOOK	GRADES CHECKED		
NO.	STRUCTURE NOTATIONS CHKD		



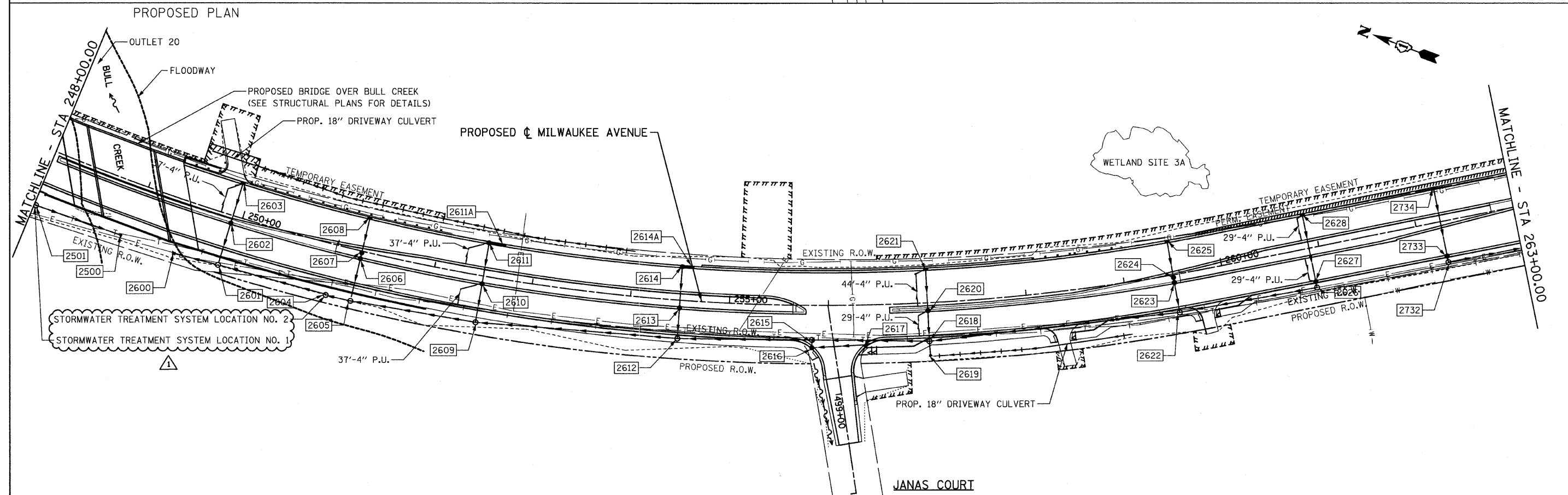
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11\02901\CADD Sheets\hst-prof07.dgn	100T	PDK	09/02/11 J.V.					330	128R-3	LAKE	518	58
		DRAWN -									CONTRACT NO. 60953	
		CHECKED -									ILLINOIS FED. AID PROJECT	
		DATE -										



FILE NAME =	USER NAME = IDOT	DESIGNED - EJM	REVISED 09/02/11 J.V.	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION				DRAINAGE AND UTILITY PLAN IL RTE 21 (MILWAUKEE AVE)				F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1:\102901\CADD Sheets\shd-drain04.dgn		DRAWN - BK	REVISED -									330	128R-3	LAKE	518	97
PLOT SCALE = 50.0000' / IN.		CHECKED - GFL	REVISED -									CONTRACT NO. 60953				
PLOT DATE = 8/31/2011		DATE - 4/30/2011	REVISED -									ILLINOIS FED. AID PROJECT				
				SCALE: 1" = 50'				SHEET NO. OF SHEETS STA. 219+00.00 TO STA. 233+00.00								

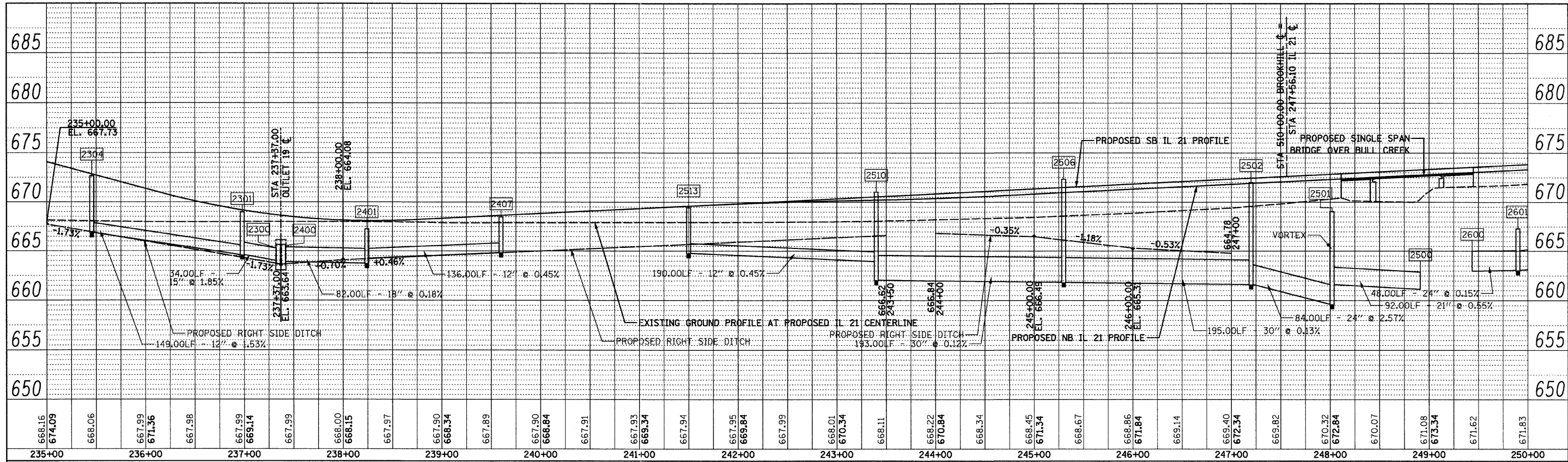


EXISTING PLAN
PROPOSED PLAN

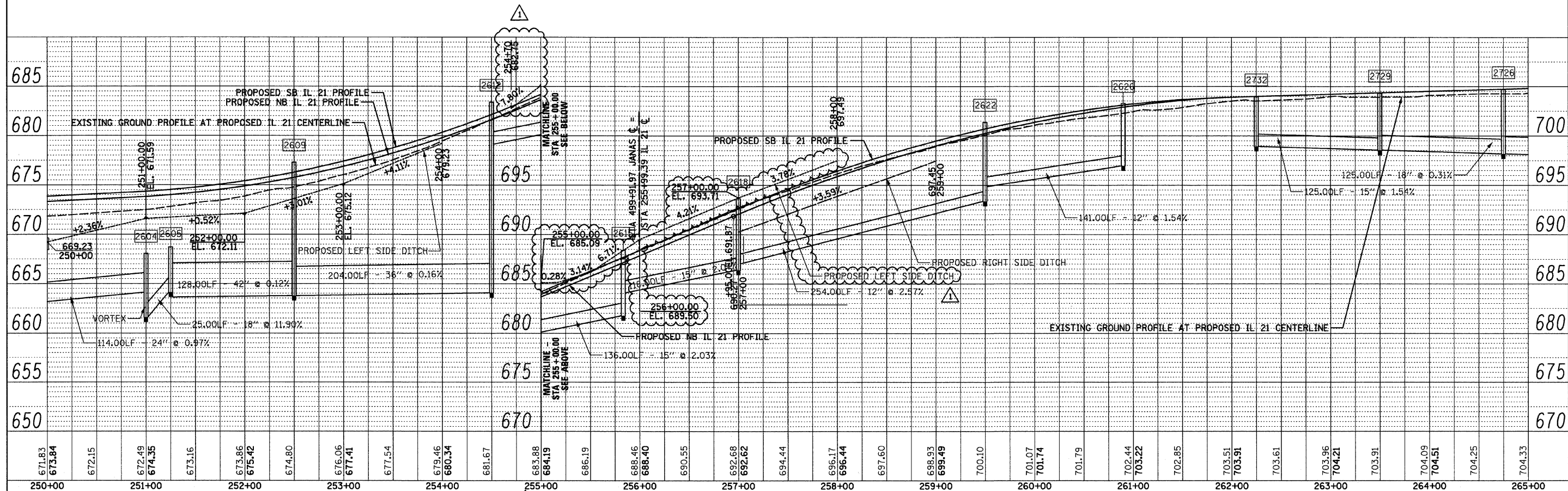


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		DRAWN - BK	REVISED -			330	128R-3	LAKE	518	99	
	PLOT SCALE = 50.0000' / IN.	CHECKED - GFL	REVISED -			CONTRACT NO. 60953					
	PLOT DATE = 8/31/2011	DATE - 4/30/2011	REVISED -			ILLINOIS FED. AID PROJECT					
				SCALE: 1" = 50'	SHEET NO. OF SHEETS	STA. 248+00.00 TO STA. 263+00.00					

PLAN	REVISIONS	BY	DATE
NO.	NOTED		
NO.	ALIGNED		
NO.	CHECKED		
NO.	DESIGNED		
NO.	FILE NAME		

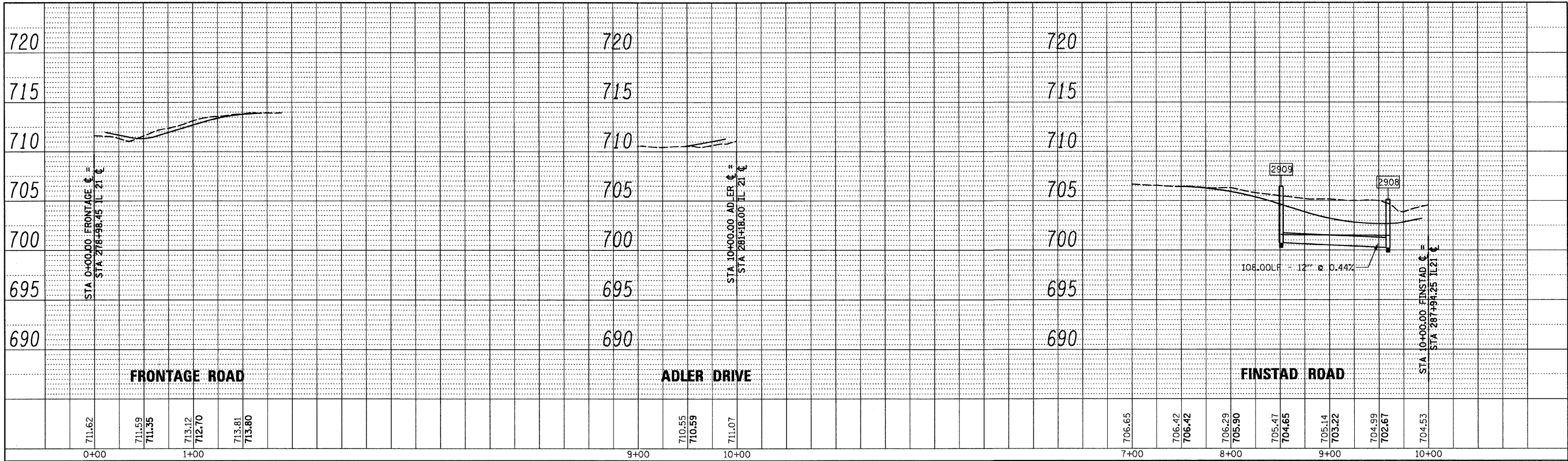


PROFILE	REVISIONS	BY	DATE
NO.	NOTED		
NO.	GRADES		
NO.	CHECKED		
NO.	DESIGNED		
NO.	FILE NAME		

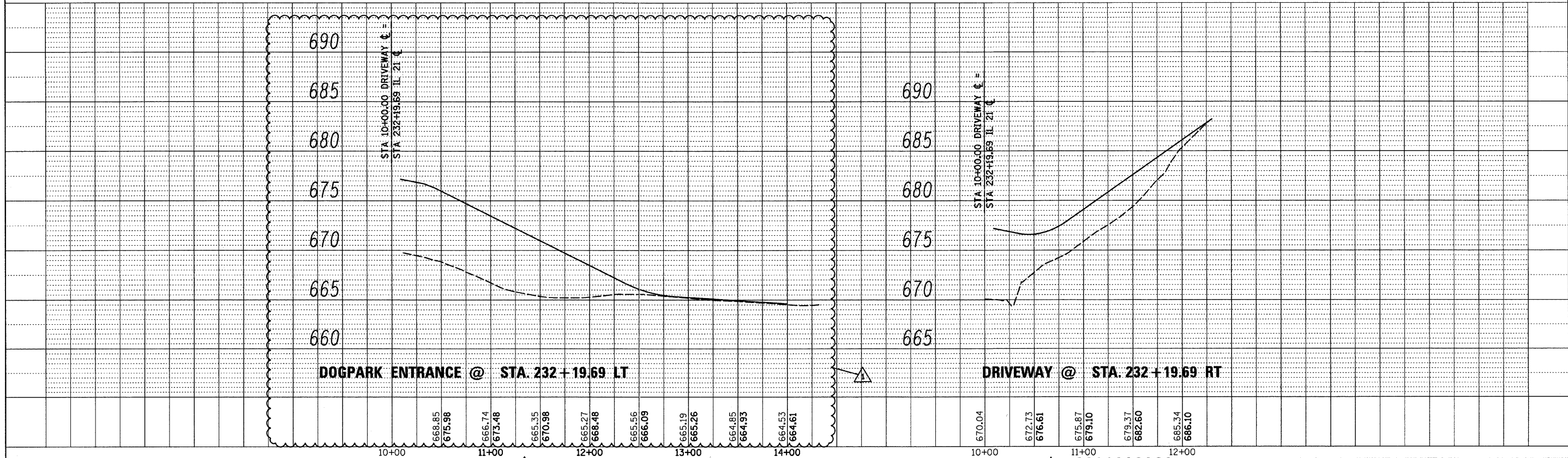


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		DRAWN - MJG	REVISED -									330	128R-3	LAKE	518	109
	PLOT SCALE = 50.0000' / IN.	CHECKED - MRH	REVISED -					CONTRACT NO. 60953								
	PLOT DATE = 8/30/2011	DATE - 12/17/10	REVISED -					ILLINOIS FED. AID PROJECT								
									SCALE:	SHEET NO.	OF	SHEETS	STA. 235+00.00 TO STA. 265+00.00			

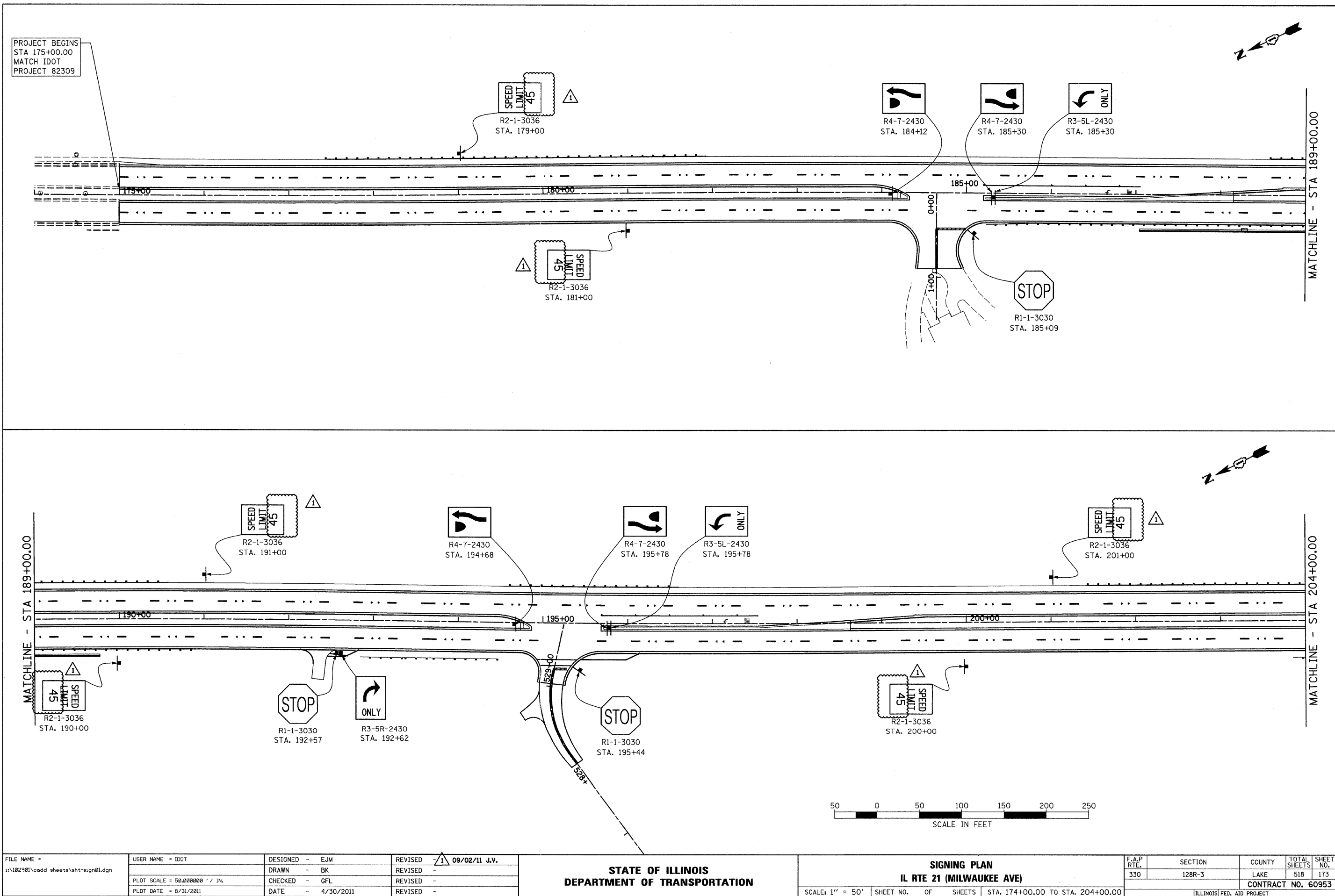
PLAN	REVIEWED	DATE
NOTE BOOK	PLOTTED	
NO.	ALIGNED	
	CHECKED	
	PAID FILE NAME	

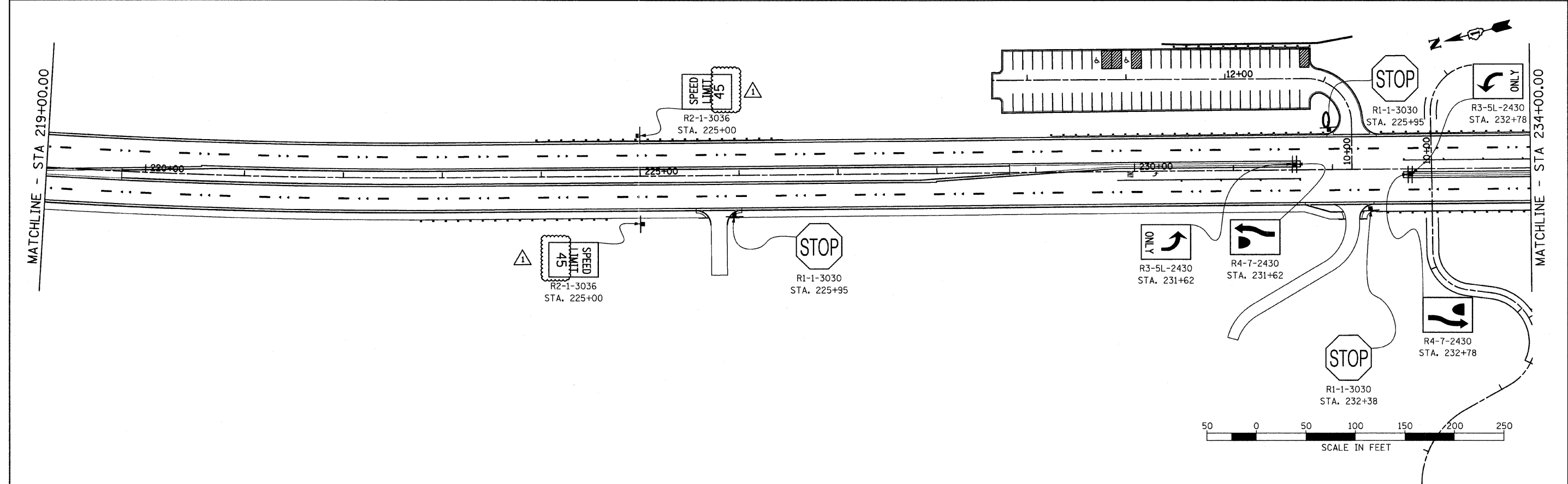
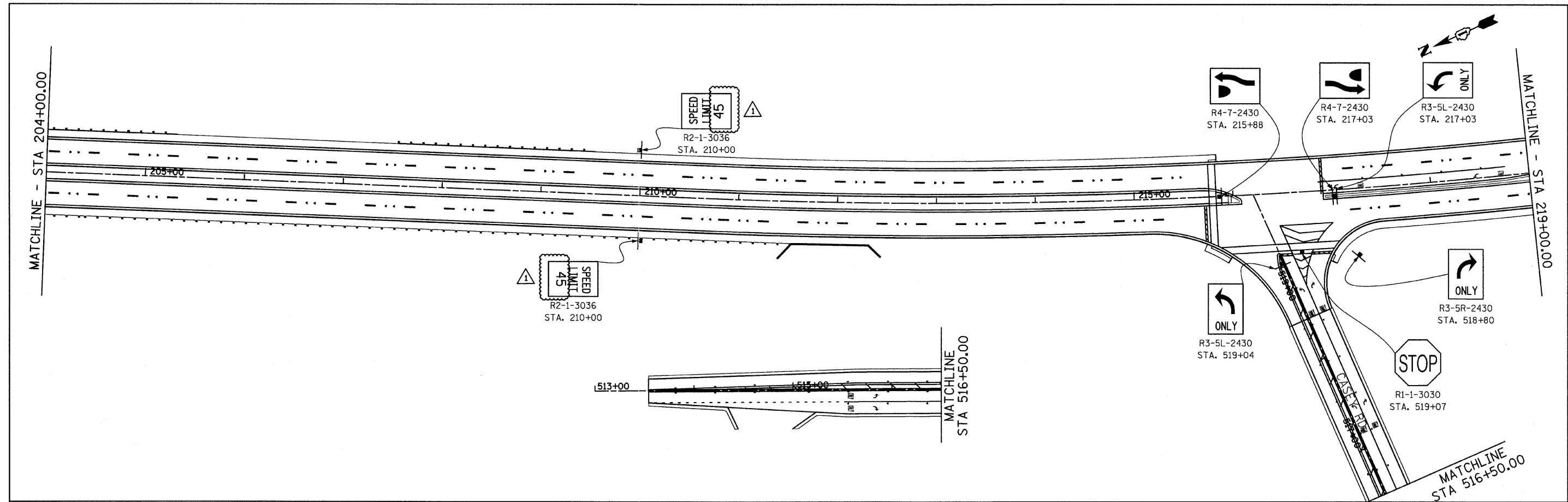


PROFILE	REVIEWED	DATE
NOTE BOOK	PLOTTED	
NO.	GRADES CHECKED	
	PAID FILE NAME	
	STRUCTURE NOTATIONS CHD	

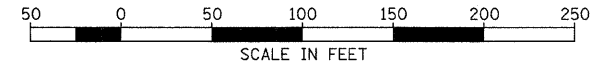
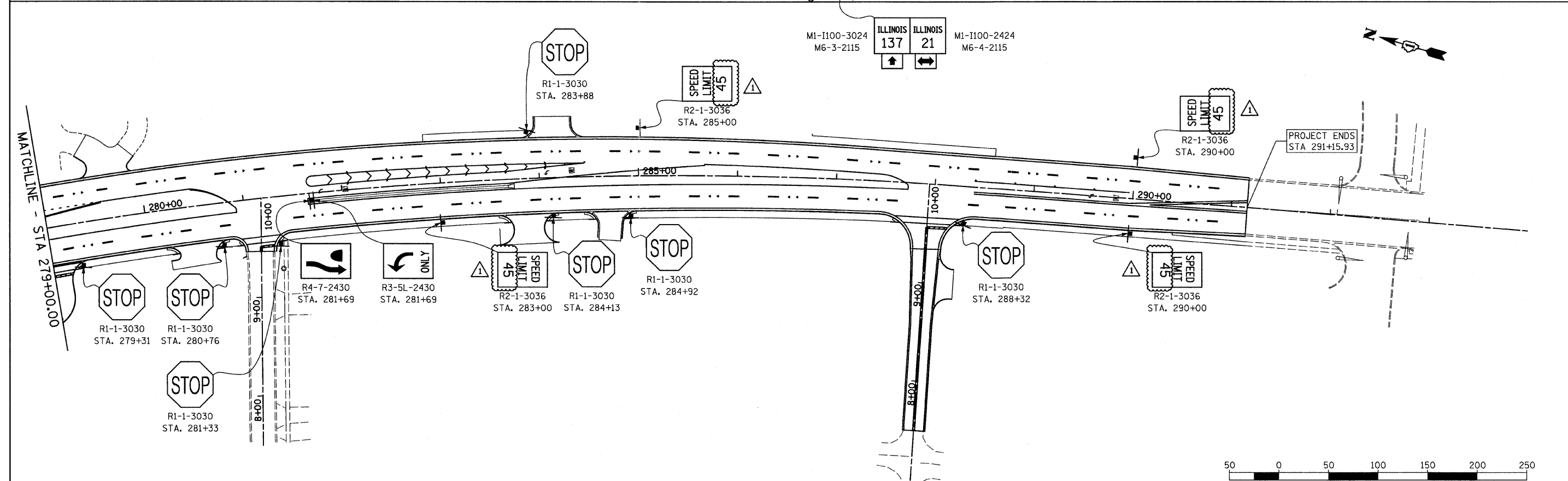
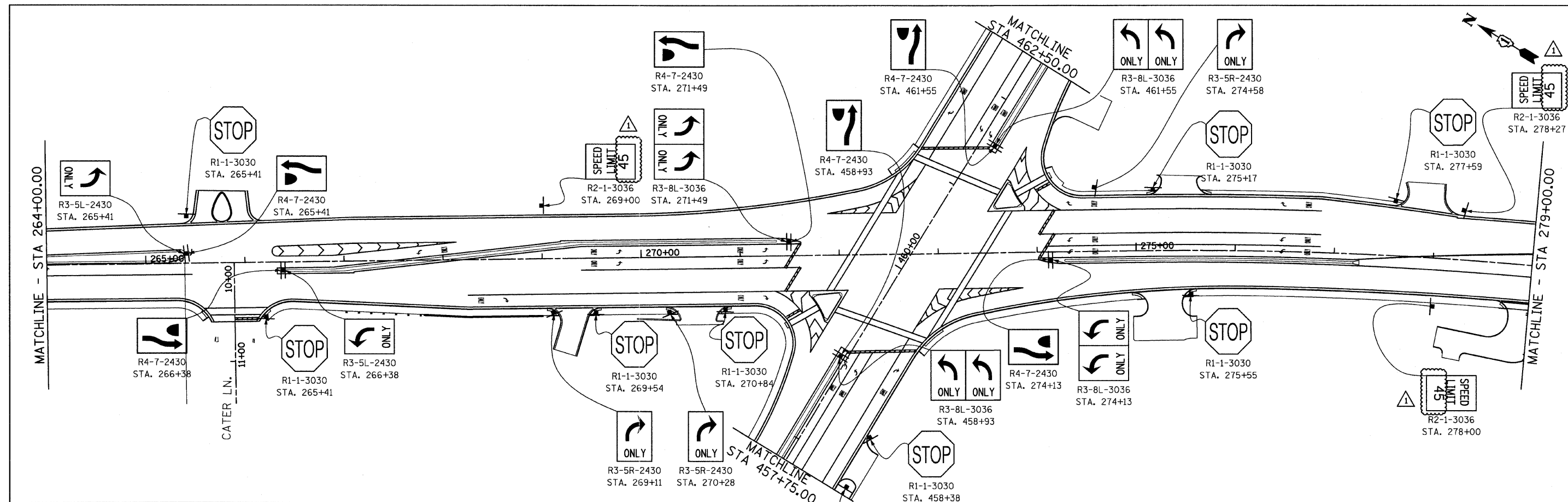


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	PLOT SCALE = 50.0000' / IN.	DRAWN - M.J.G.	REVISED -			SCALE:	SHEET NO.	OF	SHEETS	STA.	TO STA.	ILLINOIS FED. AID PROJECT
	PLOT DATE = 8/31/2011	CHECKED - MRH	REVISED -									
		DATE - 12/17/10	REVISED -									

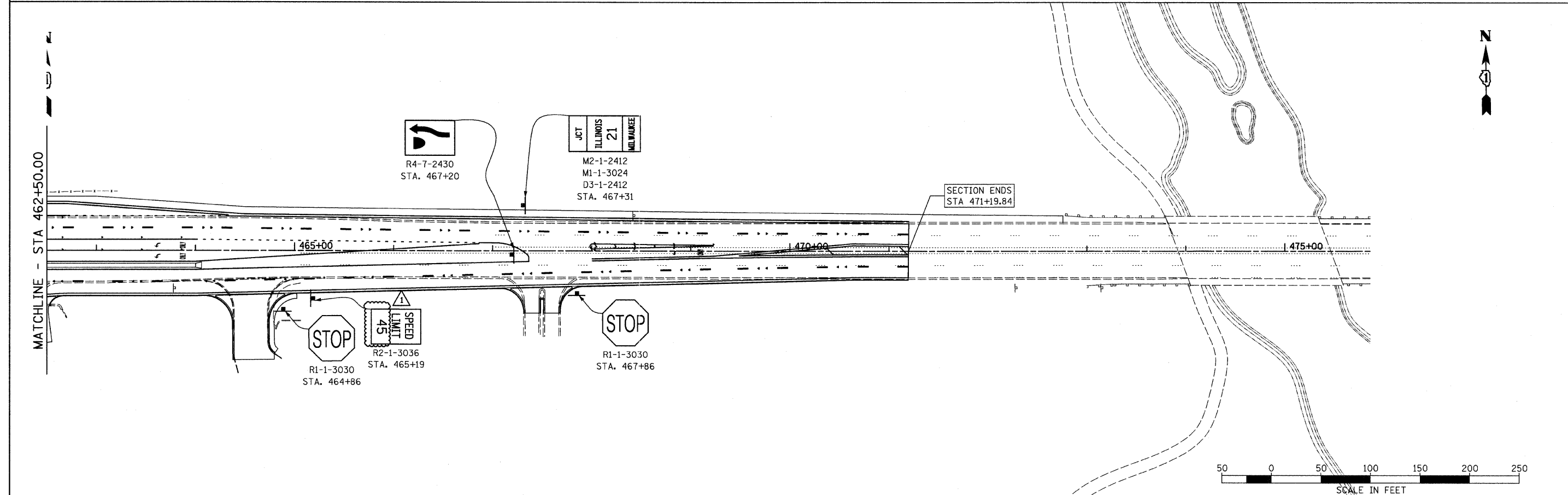
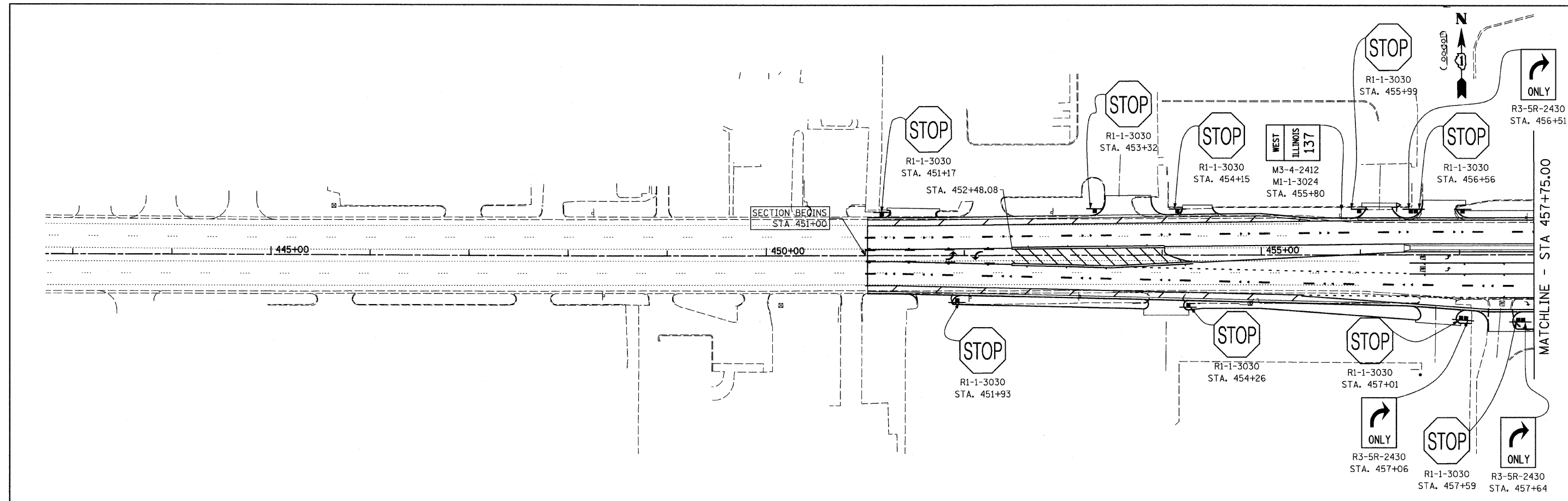




FILE NAME =	USER NAME = IDOT	DESIGNED - EJM	REVISED 09/02/11 J.V.	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION		SIGNING PLAN IL RTE 21 (MILWAUKEE AVE)		F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
11\102901\cadd\sheet\sign02.dgn		DRAWN - BK	REVISED -					330	128R-3	LAKE	518	174
PLOT SCALE = 50.000000' / IN.		CHECKED - GFL	REVISED -									
PLOT DATE = 8/31/2011		DATE - 4/30/2011	REVISED -									
				SCALE: 1" = 50'		SHEET NO. OF SHEETS STA. 204+00.00 TO STA. 234+00.00		ILLINOIS FED. AID PROJECT				
								CONTRACT NO. 60953				



FILE NAME = u:\102901\cadd sheets\st-sign04.dgn	USER NAME = IDOT	DESIGNED - EJM	REVISED - 09/02/11 J.V.	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SIGNING PLAN IL RTE 21 (MILWAUKEE AVE)	F.A.P. RTE. 330		SECTION 128R-3		COUNTY LAKE	TOTAL SHEETS 518	SHEET NO. 176
PLOT SCALE = 50.0000' / IN.	CHECKED - GFL	DATE - 4/30/2011	REVISED -			SCALE: 1" = 50'		SHEET NO. OF SHEETS		CONTRACT NO. 60953		
PLOT DATE = 8/31/2011						STA. 264+00.00 TO STA. 291+15.93				ILLINOIS FED. AID PROJECT		



FILE NAME = s:\10290\cadd\sheet\sign\05.dgn	USER NAME = IDOT	DESIGNED - EJM	REVISED 09/02/11 J.V.	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION		SIGNING PLAN IL RTE 137 (BUCKLEY ROAD)		F.A.P. SECTION COUNTY TOTAL SHEETS SHEET NO. 330 128R-3 LAKE 518 177			
PLOT SCALE = 50.0000' / IN.	CHECKED - GFL	DRAWN - BK	REVISED -					CONTRACT NO. 60953			
PLOT DATE = 8/31/2011	DATE - 4/30/2011	CHECKED -	REVISED -					ILLINOIS FED. AID PROJECT			
		DATE -	REVISED -			SCALE: 1" = 50' SHEET NO. OF SHEETS STA. 451+00.00 TO STA. 471+19.84					

SIGNING SCHEDULE

LOCATION		DESCRIPTION		72000100	72900100	72900200	72800100	73100100
				SIGN PANEL - TYPE 1	METAL POSTS - TYPE A	METAL POSTS - TYPE B	TELESCOPING STEEL SIGN SUPPORT	BASE FOR TELESCOPING STEEL SIGN SUPPORT
ROADWAY	STATION	SIGN LEGEND SYMBOL	CODE	AREA (SQ. FT.)	FOOT	FOOT	FOOT	EACH
IL RTE 21	179+00	SPEED LIMIT 45	R2-1	7.5	27			
IL RTE 21	181+00	SPEED LIMIT 45	R2-1	7.5	27			
IL RTE 21	184+12	KEEP RIGHT	R4-7	5			13.5	1
IL RTE 21	185+06	STOP	R1-1	6.25				
IL RTE 21	185+30	KEEP RIGHT	R4-7	5		13.5		
IL RTE 21	185+30	LEFT TURN ONLY	R3-5L	5			13.5	1
IL RTE 21	190+00	SPEED LIMIT 45	R2-1	7.5	27			
IL RTE 21	191+00	SPEED LIMIT 45	R2-1	7.5	27			
IL RTE 21	192+57	STOP	R1-1	6.25		13.5		
IL RTE 21	192+62	RIGHT TURN ONLY	R3-5R	5				
IL RTE 21	194+68	KEEP RIGHT	R4-7	5			13.5	1
IL RTE 21	195+44	STOP	R1-1	6.25		13.5		
IL RTE 21	195+78	KEEP RIGHT	R4-7	5			13.5	1
IL RTE 21	195+78	LEFT TURN ONLY	R3-5L	5				
IL RTE 21	200+00	SPEED LIMIT 45	R2-1	7.5	27			
IL RTE 21	201+00	SPEED LIMIT 45	R2-1	7.5	27			
IL RTE 21	210+00	SPEED LIMIT 45	R2-1	7.5	27			
IL RTE 21	210+00	SPEED LIMIT 45	R2-1	7.5	27			
IL RTE 21	215+88	KEEP RIGHT	R4-7	5			13.5	1
IL RTE 21	217+03	KEEP RIGHT	R4-7	5			13.5	1
IL RTE 21	217+03	LEFT TURN ONLY	R3-5L	5				
IL RTE 21	225+00	SPEED LIMIT 45	R2-1	7.5	27			
IL RTE 21	225+00	SPEED LIMIT 45	R2-1	7.5	27			
IL RTE 21	225+00	RIGHT TURN ONLY	R3-5R	5		13.5		
IL RTE 21	225+95	STOP	R1-1	6.25		13.5		
IL RTE 21	231+62	LEFT TURN ONLY	R3-5L	5				
IL RTE 21	231+62	KEEP RIGHT	R4-7	5			13.5	1
IL RTE 21	231+97	STOP	R1-1	6.25		13.5		
IL RTE 21	232+38	STOP	R1-1	6.25		13.5		
IL RTE 21	232+78	KEEP RIGHT	R4-7	5			13.5	1
IL RTE 21	232+78	LEFT TURN ONLY	R3-5L	5				
IL RTE 21	236+97	STOP	R1-1	6.25		13.5		
IL RTE 21	238+50	STOP	R1-1	6.25		13.5		
IL RTE 21	240+00	SPEED LIMIT 45	R2-1	7.5	27			
IL RTE 21	240+00	SPEED LIMIT 45	R2-1	7.5	27			
IL RTE 21	244+07	STOP	R1-1	6.25		13.5		
IL RTE 21	245+10	STOP	R1-1	6.25		13.5		
IL RTE 21	246+78	SPEED LIMIT 45	R2-1	7.5	27			
IL RTE 21	247+11	KEEP RIGHT	R4-7	5			13.5	1
IL RTE 21	247+25	SPEED LIMIT 25	R2-1	7.5	27			
IL RTE 21	247+73	STOP	R1-1	6.25		13.5		
IL RTE 21	248+12	KEEP RIGHT	R4-7	5			13.5	1
IL RTE 21	248+12	LEFT TURN ONLY	R3-5L	5				
IL RTE 21	249+65	STOP	R1-1	6.25		13.5		
IL RTE 21	253+00	SPEED LIMIT 45	R2-1	7.5	27			
IL RTE 21	253+00	SPEED LIMIT 45	R2-1	7.5	27			
IL RTE 21	255+69	KEEP RIGHT	R4-7	5			13.5	1
IL RTE 21	256+34	STOP	R1-1	6.25		13.5		
IL RTE 21	256+69	KEEP RIGHT	R4-7	5			13.5	1
IL RTE 21	256+69	LEFT TURN ONLY	R3-5L	5				
IL RTE 21	258+52	STOP	R1-1	6.25		13.5		
IL RTE 21	259+99	STOP	R1-1	6.25		13.5		
IL RTE 21	261+00	SPEED LIMIT 45	R2-1	7.5	27			
IL RTE 21	262+00	SPEED LIMIT 45	R2-1	7.5	27			
IL RTE 21	265+41	LEFT TURN ONLY	R3-5L	5				
IL RTE 21	265+41	KEEP RIGHT	R4-7	5			13.5	1
IL RTE 21	265+41	STOP	R1-1	6.25		13.5		
IL RTE 21	266+21	STOP	R1-1	6.25		13.5		
IL RTE 21	266+38	KEEP RIGHT	R4-7	5			13.5	1
IL RTE 21	266+38	LEFT TURN ONLY	R3-5L	5				
IL RTE 21	269+00	SPEED LIMIT 45	R2-1	7.5	27			
IL RTE 21	269+11	RIGHT TURN ONLY	R3-5R	5		13.5		
IL RTE 21	269+54	STOP	R1-1	6.25		13.5		
IL RTE 21	270+28	RIGHT TURN ONLY	R3-5R	5		13.5		
IL RTE 21	270+84	STOP	R1-1	6.25		13.5		
IL RTE 21	271+49	DUAL LEFT TURN ONLY	R3-8L	7.5			13.5	1
IL RTE 21	271+49	KEEP RIGHT	R4-7	5				
IL RTE 21	274+13	KEEP RIGHT	R4-7	5			13.5	1
IL RTE 21	274+13	DUAL LEFT TURN ONLY	R3-8L	7.5				
IL RTE 21	274+58	RIGHT TURN ONLY	R3-5R	5		13.5		
IL RTE 21	275+17	STOP	R1-1	6.25		13.5		
IL RTE 21	275+55	STOP	R1-1	6.25		13.5		
IL RTE 21	277+59	STOP	R1-1	6.25		13.5		
IL RTE 21	278+00	SPEED LIMIT 45	R2-1	7.5	27			
IL RTE 21	278+27	SPEED LIMIT 45	R2-1	7.5	27			
IL RTE 21	279+31	STOP	R1-1	6.25		13.5		
IL RTE 21	280+76	STOP	R1-1	6.25		13.5		
IL RTE 21	281+33	STOP	R1-1	6.25		13.5		
IL RTE 21	281+69	KEEP RIGHT	R4-7	5			13.5	1
IL RTE 21	281+69	LEFT TURN ONLY	R3-5L	5				
IL RTE 21	283+00	SPEED LIMIT 45	R2-1	7.5	27			
IL RTE 21	283+88	STOP	R1-1	6.25		13.5		
IL RTE 21	284+13	STOP	R1-1	6.25		13.5		
IL RTE 21	284+92	STOP	R1-1	6.25		13.5		
IL RTE 21	285+00	SPEED LIMIT 45	R2-1	7.5	27			
IL RTE 21	288+32	STOP	R1-1	6.25		13.5		
IL RTE 21	290+00	SPEED LIMIT 45	R2-1	7.5	27			
IL RTE 21	290+00	SPEED LIMIT 45	R2-1	7.5	27			
CASEY ROAD	518+80	RIGHT TURN ONLY	R3-5R	5		13.5		
CASEY ROAD	519+04	LEFT TURN ONLY	R3-5L	5		13.5		
CASEY ROAD	519+07	STOP	R1-1	6.25		13.5		
BROOKHILL ROAD		SPEED LIMIT 25	R2-1	7.5	27			



ALL "SPEED LIMIT 40" SIGNS CHANGED TO "SPEED LIMIT 45"

SIGNING SCHEDULE

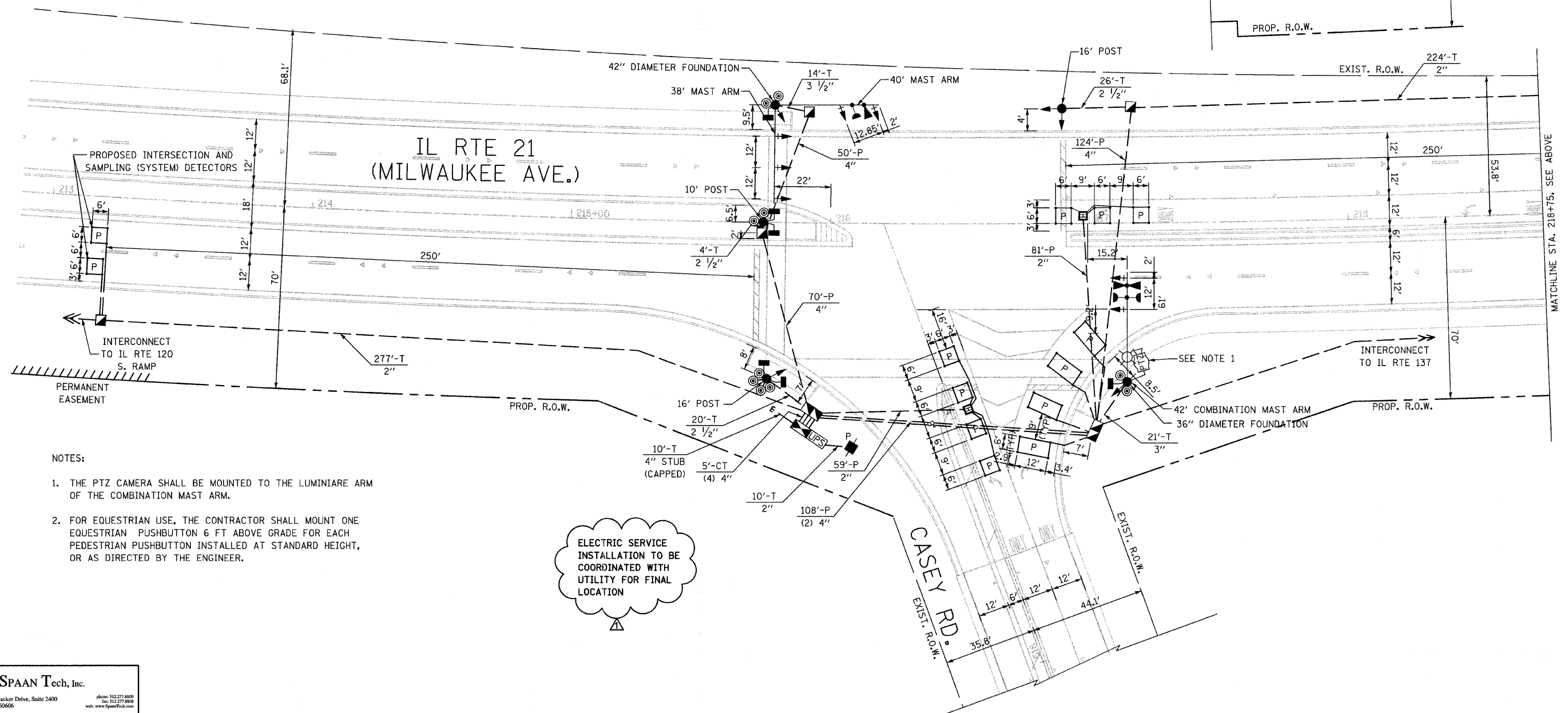
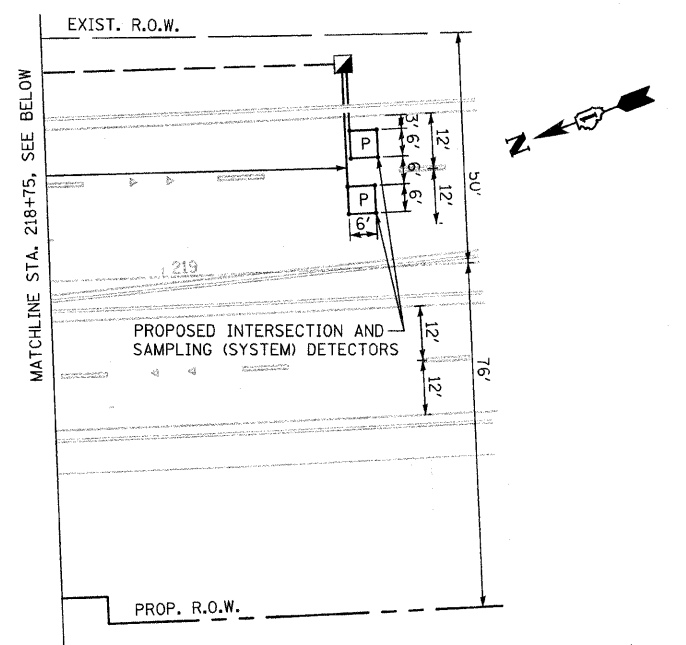
LOCATION		DESCRIPTION		72000100	72900100	72900200	72800100	73100100
				SIGN PANEL - TYPE 1	METAL POSTS - TYPE A	METAL POSTS - TYPE B	TELESCOPING STEEL SIGN SUPPORT	BASE FOR TELESCOPING STEEL SIGN SUPPORT
ROADWAY	STATION	SIGN LEGEND SYMBOL	CODE	AREA (SQ. FT.)	FOOT	FOOT	FOOT	EACH
IL RTE 137	451+17	STOP	R1-1	6.25		13.5		
IL RTE 137	451+93	STOP	R1-1	6.25		13.5		
IL RTE 137	453+32	STOP	R1-1	6.25		13.5		
IL RTE 137	454+15	STOP	R1-1	6.25		13.5		
IL RTE 137	454+28	STOP	R1-1	6.25		13.5		
IL RTE 137	455+80	WEST	M3-4	2				
IL RTE 137	455+80	ILLINOIS 137	M1-1	6				
IL RTE 137	455+99	STOP	R1-1	6.25		13.5		
IL RTE 137	456+51	RIGHT TURN ONLY	R3-5R	5		13.5		
IL RTE 137	456+56	STOP	R1-1	6.25		13.5		
IL RTE 137	457+01	STOP	R1-1	6.25		13.5		
IL RTE 137	457+06	RIGHT TURN ONLY	R3-5R	5		13.5		
IL RTE 137	457+59	STOP	R1-1	6.25		13.5		
IL RTE 137	457+64	RIGHT TURN ONLY	R3-5R	5		13.5		
IL RTE 137	458+38	STOP	R1-1	6.25		13.5		
IL RTE 137	458+93	DUAL LEFT TURN ONLY	R3-8L	7.5			13.5	1
IL RTE 137	458+93	KEEP RIGHT	R4-7	5				
IL RTE 137	461+55	KEEP RIGHT	R4-7	5			13.5	1
IL RTE 137	461+55	DUAL LEFT TURN ONLY	R3-8L	7.5				
IL RTE 137	464+86	STOP	R1-1	6.25		13.5		
IL RTE 137	465+19	SPEED LIMIT 45	R2-1	7.5	27			
IL RTE 137	467+20	KEEP RIGHT	R4-7	5			13.5	1
IL RTE 137	467+31	JCT	M2-1	2				
IL RTE 137	467+31	ILLINOIS 21	M1-1	6	29			
IL RTE 137	467+31	MILWAUKEE	D3-1	2				
IL RTE 137	467+86	STOP	R1-1	6.25		13.5		

FILE NAME =	USER NAME = IDOT	DESIGNED - EJM	REVISED - 09/02/11 J.V.	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SIGNING SCHEDULE	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
1:\102901\cadd sheets\sign-schedule.dgn		DRAWN - BK	REVISED -			330	128R-3	LAKE	518	177A	
	PLOT SCALE = 5/8"=0'00" / 1" IN.	CHECKED - GFL	REVISED -			CONTRACT NO. 60953					
	PLOT DATE = 8/31/2011	DATE - 12/17/10	REVISED -			SCALE:	SHEET NO.	OF	SHEETS	STA.	TO STA.

RESTORATION OF WORK AREA, RESTORATION OF THE TRAFFIC SIGNAL WORK AREA SHALL BE INCIDENTAL TO THE RELATED PAY ITEM SUCH AS FOUNDATION, CONDUIT, HANDHOLE, TRENCH AND BACKFILL, ETC., AND NO EXTRA COMPENSATION SHALL BE ALLOWED. ALL ROADWAY SURFACES SUCH AS SHOULDERS, MEDIANS, SIDEWALKS, PAVEMENT, ETC. SHALL BE REPLACED IN KIND. ALL DAMAGE TO MOWED LAWNS SHALL BE REPLACED WITH AN APPROVED SOD, AND ALL DAMAGE TO UNMOWED FIELDS SHALL BE SEEDED IN ACCORDANCE WITH STANDARD SPECIFICATIONS 252 AND 250 RESPECTIVELY.

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

NOTE:
THE TRAFFIC SIGNAL CONTROLLER SHALL BE NTCIP COMPLIANT.



- NOTES:
1. THE PTZ CAMERA SHALL BE MOUNTED TO THE LUMINIARE ARM OF THE COMBINATION MAST ARM.
 2. FOR EQUESTRIAN USE, THE CONTRACTOR SHALL MOUNT ONE EQUESTRIAN PUSHBUTTON 6 FT ABOVE GRADE FOR EACH PEDESTRIAN PUSHBUTTON INSTALLED AT STANDARD HEIGHT, OR AS DIRECTED BY THE ENGINEER.

ELECTRIC SERVICE INSTALLATION TO BE COORDINATED WITH UTILITY FOR FINAL LOCATION

SPAAN Tech, Inc.
311 South Wacker Drive, Suite 2400
Chicago, IL 60606
phone: 312.277.8800
fax: 312.277.8808
web: www.spaanTech.com

07-TS-Casey.dgn	USER NAME = Toby Micokey	DESIGNED - TM	REVISED - 09/02/11 TM
HDR - PDF.plt		DRAWN - TM	REVISED -
9/1/2011 1:51:06 PM	PLOT SCALE = 40.000000' / 1" =	CHECKED - YK	REVISED -
	HDR Fullerton Parkway.tbl	DATE - 04/13/11	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TRAFFIC SIGNAL INSTALLATION PLAN
IL RTE 21 (MILWAUKEE AVE) AT CASEY ROAD
SCALE: 1"=20' SHEET NO. 7 OF 41 SHEETS STA. TO STA.

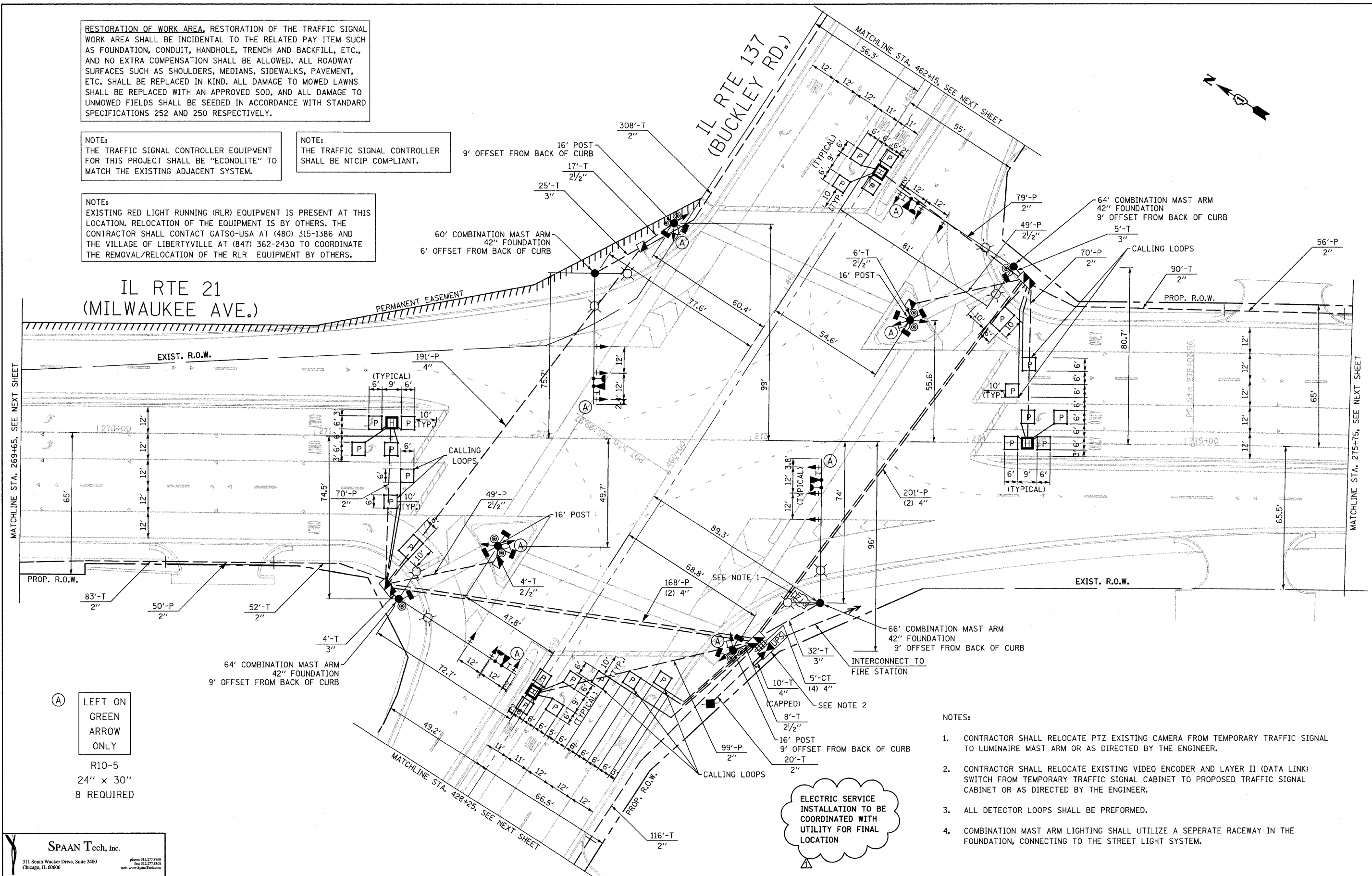
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
330	128R-3	LAKE	518	195
CONTRACT NO. 60953				
ILLINOIS FED. AID PROJECT				

RESTORATION OF WORK AREA, RESTORATION OF THE TRAFFIC SIGNAL WORK AREA SHALL BE INCIDENTAL TO THE RELATED PAY ITEM SUCH AS FOUNDATION, CONDUIT, HANDHOLE, TRENCH AND BACKFILL, ETC., AND NO EXTRA COMPENSATION SHALL BE ALLOWED. ALL ROADWAY SURFACES SUCH AS SHOULDERS, MEDIANS, SIDEWALKS, PAVEMENT, ETC. SHALL BE REPLACED IN KIND. ALL DAMAGE TO MOWED LAWNS SHALL BE REPLACED WITH AN APPROVED SOD, AND ALL DAMAGE TO UNMOWED FIELDS SHALL BE SEEDED IN ACCORDANCE WITH STANDARD SPECIFICATIONS 252 AND 250 RESPECTIVELY.

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

NOTE:
THE TRAFFIC SIGNAL CONTROLLER SHALL BE NTCIP COMPLIANT.

NOTE:
EXISTING RED LIGHT RUNNING (RLR) EQUIPMENT IS PRESENT AT THIS LOCATION. RELOCATION OF THE EQUIPMENT IS BY OTHERS. THE CONTRACTOR SHALL CONTACT GATSO-USA AT (480) 315-1386 AND THE VILLAGE OF LIBERTYVILLE AT (847) 362-2430 TO COORDINATE THE REMOVAL/RELOCATION OF THE RLR EQUIPMENT BY OTHERS.



(A) LEFT ON GREEN ARROW ONLY

R10-5
24" x 30"
8 REQUIRED

SPAAN Tech, Inc.
311 South Wacker Drive, Suite 2400
Chicago, IL 60606
Phone: 312.277.8800
Fax: 312.277.8808
Web: www.SpaanTech.com

15-TS-Buckley.dgn
HDR - PDF.plt
9/1/2011 1:54:45 PM

USER NAME = Toby Mickey
PLOT SCALE = 40.000000' / 1" =
HDR Fullerton Parkway.tbl

DESIGNED - TM
DRAWN - TM
CHECKED - YK
DATE - 04/13/11

REVISED 09/02/11 TM
REVISED -
REVISED -
REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

TRAFFIC SIGNAL MODERNIZATION PLAN
IL RTE 21 (MILWAUKEE AVE) AT IL RTE 137 (BUCKLEY ROAD)

SCALE: 1"=20' SHEET NO. 15 OF 41 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
330	128R-3	LAKE	518	203
CONTRACT NO. 60953				
ILLINOIS FED. AID PROJECT				

AERIAL INTERCONNECT TO
ILL RTE 137, SEE TEMPORARY
INTERCONNECT PLAN

MATCHLINE STA. 290+25.00
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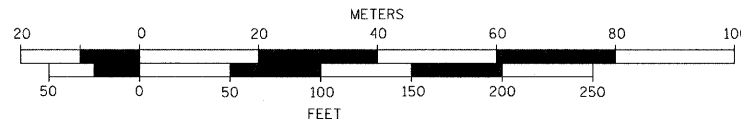
NOTE:
THE TRAFFIC SIGNAL CONTROLLER EQUIPMENT
FOR THIS PROJECT SHALL BE "ECONOLITE" TO
MATCH THE EXISTING ADJACENT SYSTEM.

NOTE:
THE TRAFFIC SIGNAL CONTROLLER SHALL BE
NTCIP COMPLIANT.

RESTORATION OF WORK AREA. RESTORATION OF THE TRAFFIC SIGNAL
WORK AREA SHALL BE INCIDENTAL TO THE RELATED PAY ITEM SUCH
AS FOUNDATION, CONDUIT, HANDHOLE, TRENCH AND BACKFILL, ETC.,
AND NO EXTRA COMPENSATION SHALL BE ALLOWED. ALL ROADWAY
SURFACES SUCH AS SHOULDERS, MEDIANS, SIDEWALKS, PAVEMENT,
ETC. SHALL BE REPLACED IN KIND. ALL DAMAGE TO MOWED LAWNS
SHALL BE REPLACED WITH AN APPROVED SOD, AND ALL DAMAGE TO
UNMOWED FIELDS SHALL BE SEEDED IN ACCORDANCE WITH STANDARD
SPECIFICATIONS 252 AND 250 RESPECTIVELY.

THE CONTRACTOR SHALL COORDINATE WITH COMED TO HAVE EXTENSION
ARMS INSTALLED ON THE OVERHEAD UTILITY POLES ON THE WEST SIDE
OF ILL RTE 21 SO THAT THE OVERHEAD UTILITY WIRES DO NOT
CONFLICT WITH THE TEMPORARY SIGNAL POLES.

GRAPHIC SCALE



CONSTRUCTION NOTES:

1. THE CONTRACTOR SHALL DISCONNECT THE EXISTING FIBER
OPTIC CABLE FROM THE PERMANENT CONTROLLER AND CONNECT
IT TO THE TEMPORARY TRAFFIC SIGNAL CONTROLLER. THE
CONTRACTOR MAY SPLICE ADDITIONAL FIBER OPTIC CABLE IF
NECESSARY TO MAKE THE CONNECTION. THIS WORK SHALL BE
CONSIDERED INCIDENTAL TO THE TEMPORARY TRAFFIC SIGNAL
INSTALLATION PAY ITEM.
2. THE CONTRACTOR SHALL DISCONNECT THE EXISTING FIRE STATION
PUSHBUTTON CABLE FROM THE PERMANENT CONTROLLER AND CON-
NECT IT TO THE TEMPORARY TRAFFIC SIGNAL CONTROLLER. THE
CONTRACTOR MAY SPLICE ADDITIONAL CABLE TO THE EXISTING IF
NECESSARY TO MAKE THE CONNECTION. THE CONTRACTOR SHALL
KEEP THE FIRE STATION PUSHBUTTON OPERATIONAL DURING ALL
STAGES OF CONSTRUCTION. THIS WORK SHALL BE CONSIDERED
INCIDENTAL TO THE TEMPORARY TRAFFIC SIGNAL INSTALLATION
PAY ITEM.

NOTES FOR TEMPORARY TRAFFIC SIGNALS

1. ALL CONTROL EQUIPMENT INCLUDING EMERGENCY PRE-EMPTION AND COMMUNICATION
DEVICES FOR THE TEMPORARY TRAFFIC SIGNAL(S) SHALL BE FURNISHED BY THE CONTRACTOR.
2. ONLY CONTROLLERS SUPPLIED BY ONE OF THE DISTRICT APPROVED CLOSED LOOP
EQUIPMENT MANUFACTURERS WILL BE APPROVED FOR USE AT TEMPORARY SIGNAL LOCATIONS.
ALL CONTROLLERS USED FOR TEMPORARY TRAFFIC SIGNALS SHALL BE FULLY ACTUATED NEMA
MICROPROCESSOR BASED WITH RS232 DATA ENTRY PORTS COMPATIBLE WITH EXISTING
MONITORING SOFTWARE APPROVED BY IDOT DISTRICT 1, INSTALLED IN A NEMA TS2 CABINET.
ONLY ONE BRAND OF CONTROLLER WILL BE ACCEPTED FOR ANY ONE CONTRACT.
3. ALL TRAFFIC SIGNAL SECTIONS AND PEDESTRIAN SIGNAL SECTIONS SHALL BE LED AND
12" (300mm) DIAMETER. HEADS SHALL BE PLACED AS INDICATED ON THE TEMPORARY TRAFFIC
SIGNAL PLAN OR AS DIRECTED BY THE ENGINEER. PEDESTRIAN SIGNALS SHALL INCLUDE
SOLID INTERNATIONAL SYMBOLS. PEDESTRIAN SIGNALS WITH COUNTDOWN TIMERS SHALL BE
USED WHEN THE EXISTING INSTALLATION UTILIZES COUNTDOWN TYPE OR AS DIRECTED BY THE
ENGINEER. COUNTDOWN TYPE PEDESTRIAN SIGNALS ARE NOT TO BE INSTALLED AT A RAILROAD
INTERSECTION. THE CONTRACTOR SHALL FURNISH ENOUGH CABLE SLACK TO RELOCATE HEADS
TO ANY POSITION ON THE SPAN WIRE OR AT LOCATIONS ILLUSTRATED ON THE PLANS FOR
CONSTRUCTION STAGING. THE TEMPORARY TRAFFIC SIGNAL SHALL REMAIN IN OPERATION
DURING ALL SIGNAL HEAD RELOCATIONS. EACH TEMPORARY TRAFFIC SIGNAL HEAD SHALL
HAVE ITS OWN CABLE FROM THE CONTROLLER CABINET TO THE SIGNAL HEAD.
4. ALL EXISTING STREET NAME AND INTERSECTION REGULATORY SIGNS SHALL BE REMOVED
FROM EXISTING POLES, RELOCATED AND SECURELY FASTENED TO THE SPAN WIRE OR WOOD
POLE AS DIRECTED BY THE ENGINEER.
5. ANY TEMPORARY SIGNAL WITHIN AN EXISTING CLOSED LOOP TRAFFIC SIGNAL SYSTEM
SHALL BE INTERCONNECTED TO THAT SYSTEM USING SIMILAR BRAND CONTROL EQUIPMENT.
6. THE TEMPORARY TRAFFIC SIGNAL SHALL HAVE THE SIGNAL HEAD DISPLAYS, SIGNAL HEAD
PLACEMENTS AND CONTROLLER PHASING MATCH THE EXISTING TRAFFIC SIGNAL AT THE TIME
OF THE TURN ON. IF NO TRAFFIC STAGING IS IN PLACE OR WILL NOT BE STAGED ON THE
DAY OF THE TURN ON.
7. UNINTERRUPTIBLE POWER SUPPLY (UPS) SYSTEMS SHALL BE INSTALLED AND MADE OPERATIONAL
AT TEMPORARY TRAFFIC SIGNAL INSTALLATIONS WHERE UPS IS INSTALLED AT THE EXISTING
TRAFFIC SIGNAL. TEMPORARY TRAFFIC SIGNALS AT RAILROAD INTERSECTIONS, AND TEMPORARY
TRAFFIC SIGNALS AT INTERSECTIONS WITH FIRE STATION ACTUATED EMERGENCY VEHICLE
PRE-EMPTION, OR WHEN INDICATED ON THE PLANS.
8. TRAFFIC SIGNAL MANAGEMENT SYSTEMS SHALL BE MAINTAINED IN OPERATION AS INDICATED
ON THE PLANS OR AS DIRECTED BY THE ENGINEER. REQUIRED EQUIPMENT SHALL BE AS SHOWN
ON THE PLANS AND THE CONTRACTOR SHALL PLACE THE EQUIPMENT IN OPERATION TO THE
SATISFACTION OF THE ENGINEER AND THE AGENCY RESPONSIBLE FOR THE TRAFFIC SIGNAL
MANAGEMENT SYSTEM.
9. DETECTION AT TEMPORARY TRAFFIC SIGNALS SHALL BE INCLUDED FOR ALL APPROACHES OF
THE INTERSECTION UNLESS INDICATED OTHERWISE ON THE PLANS. THE DETECTION SYSTEM
MUST MEET THE SPECIFICATIONS OF DISTRICT 1 AND THE CONTRACTOR SHALL PLACE THE
DETECTORS INTO OPERATION TO THE SATISFACTION OF THE ENGINEER.
10. WHEN PAN, TILT, ZOOM CAMERAS ARE INSTALLED AT THE EXISTING INTERSECTION OR ARE
CALLED FOR IN THE PLANS, THE CONTRACTOR SHALL BE RESPONSIBLE FOR INSTALLING AND
MAINTAINING THE CAMERAS TO THE SATISFACTION OF THE ENGINEER AND THE AGENCY
RESPONSIBLE FOR THE CAMERAS.

DRILL EXISTING HANDHOLE (1)
TO FIRE STATION
PUSHBUTTON

LIBERTVILLE
FIRE STATION

ADLER PARK

MATCHLINE A-A
SEE BELOW LEFT

MATCHLINE A-A
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SPAAN Tech, Inc.

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USER NAME = Toby Mickey

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DATE - 04/13/11

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TEMPORARY TRAFFIC SIGNAL INSTALLATION
ILL RTE 21 (MILWAUKEE AVE.) AND FIRE STATION DRIVE

SCALE: 1" = 20' SHEET NO. 18 OF 41 SHEETS STA. 295+00.00 TO STA. 280+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
330	128R-3	LAKE	518	206
CONTRACT NO. 60953				
ILLINOIS FED. AID PROJECT				

INTERCONNECT TO ILL RTE 137
(SEE INTERCONNECT PLAN)

12'-CT
(2) 1" UD

PROP. R.O.W.

61'-T
2"

MATCHLINE STA. 290+25.00
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ILL RTE 21 (MILWAUKEE AVE.)

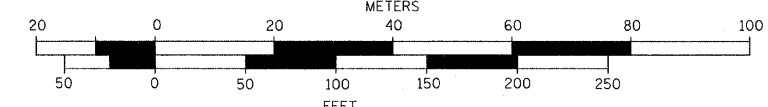
EXIST. R.O.W.

MATCHLINE STA. 290+25.00
SEE BELOW LEFT

37'-P
2"

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

GRAPHIC SCALE



RESTORATION OF WORK AREA. RESTORATION OF THE TRAFFIC SIGNAL
WORK AREA SHALL BE INCIDENTAL TO THE RELATED PAY ITEM SUCH
AS FOUNDATION, CONDUIT, HANDHOLE, TRENCH AND BACKFILL, ETC.,
AND NO EXTRA COMPENSATION SHALL BE ALLOWED. ALL ROADWAY
SURFACES SUCH AS SHOULDERS, MEDIANS, SIDEWALKS, PAVEMENT,
ETC. SHALL BE REPLACED IN KIND. ALL DAMAGE TO MOWED LAWNS
SHALL BE REPLACED WITH AN APPROVED SOD, AND ALL DAMAGE TO
UNMOWED FIELDS SHALL BE SEEDED IN ACCORDANCE WITH STANDARD
SPECIFICATIONS 252 AND 250 RESPECTIVELY.

TO FIRE STATION PUSHBUTTON,
(275'-E-2")

LIBERTYVILLE
FIRE STATION

ADLER PARK

MATCHLINE A-A
SEE BELOW LEFT

ILL RTE 21 (MILWAUKEE AVE.)

EXIST. R.O.W.

MATCHLINE A-A
SEE ABOVE RIGHT

SCHEDULE OF QUANTITIES

ITEM	UNIT	QTY
CONDUIT IN TRENCH, 2" DIA., GALVANIZED STEEL	FT	210
CONDUIT PUSHED, 2" DIA., GALVANIZED STEEL	FT	49
HANDHOLE	EA	1
TRENCH AND BACKFILL FOR ELECTRICAL WORK	FT	210
ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1 PAIR	FT	287
DRILL EXISTING HANDHOLE	EA	1
TEMPORARY TRAFFIC SIGNAL INSTALLATION	EA	1
REMOVE EXISTING HANDHOLE	EA	1
PREFORMED DETECTOR LOOP	FT	66
TEMPORARY TRAFFIC SIGNAL TIMINGS	EA	1

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USER NAME = Toby Mickey

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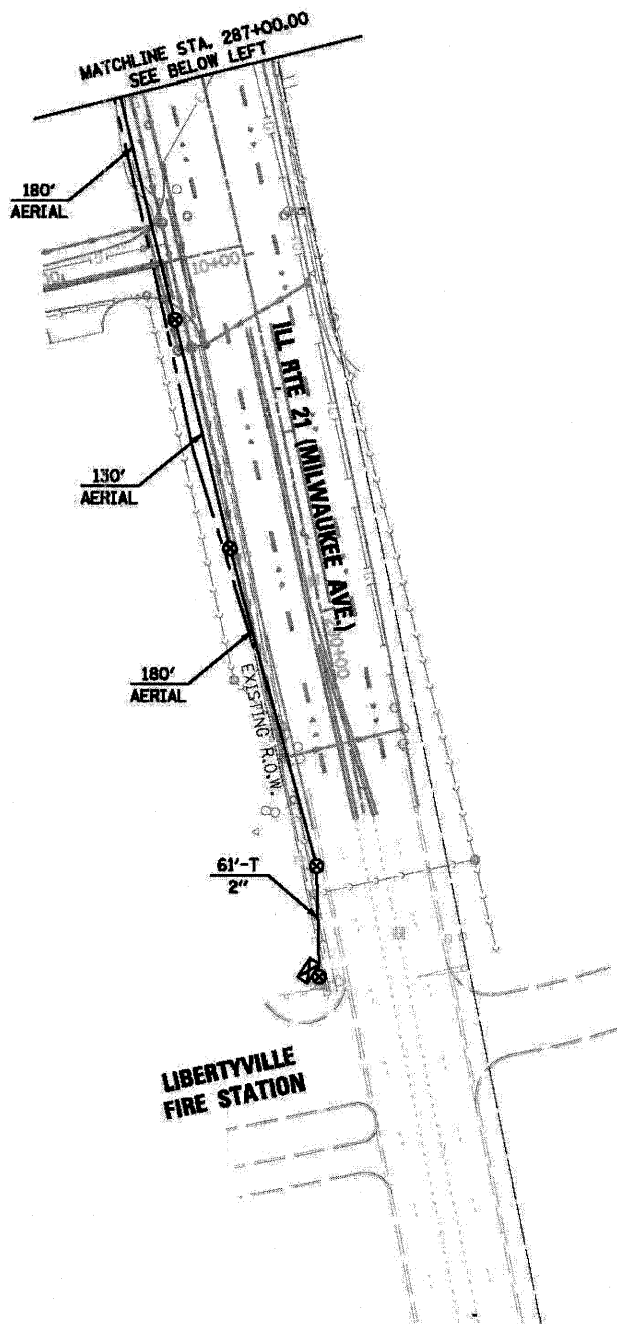
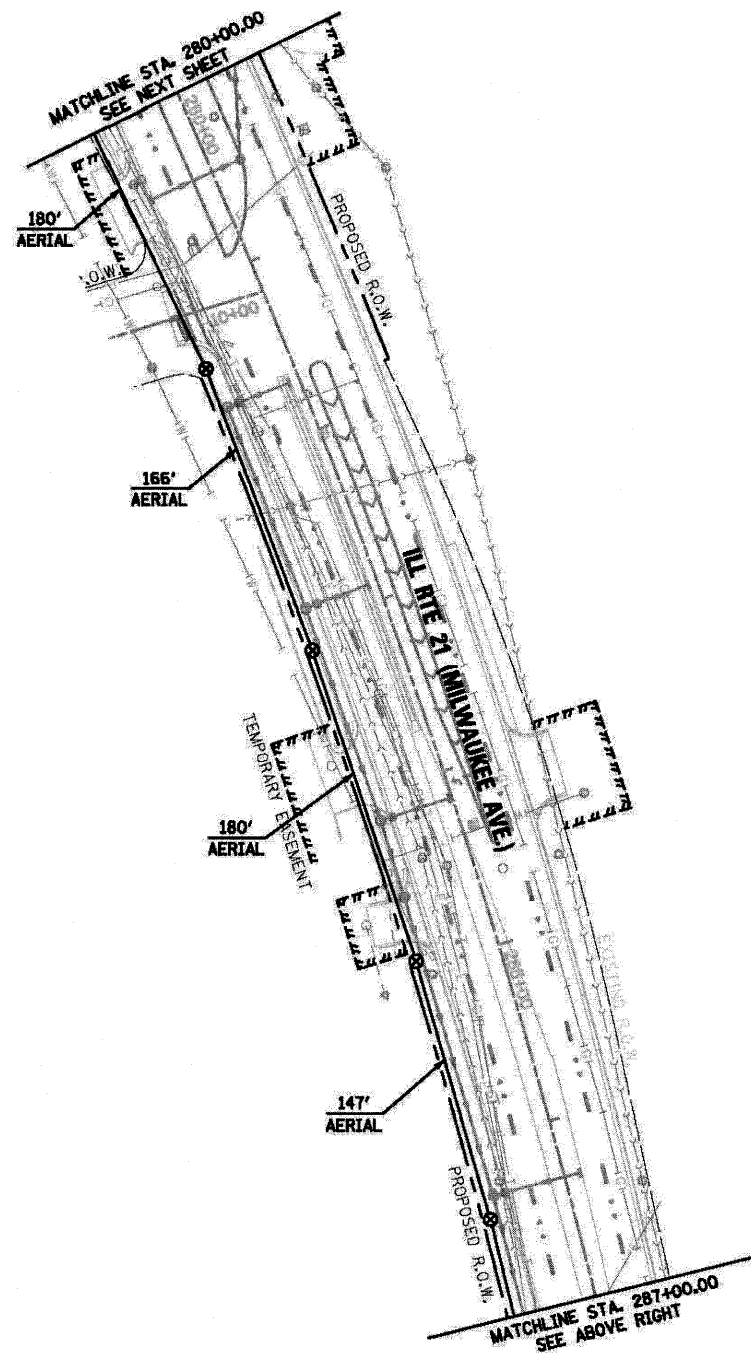
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**TRAFFIC SIGNAL MODIFICATION PLAN
ILL RTE 21 (MILWAUKEE AVE.) AND FIRE STATION DRIVE**

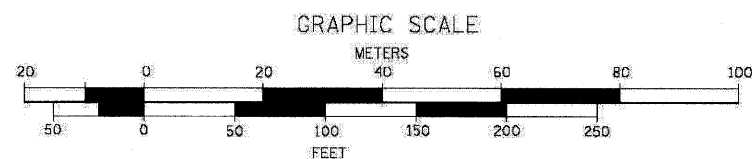
SCALE: 1" = 20' SHEET NO. 20 OF 41 SHEETS STA. 295+00.00 TO STA. 280+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
330	128R-3	LAKE	518	207A
CONTRACT NO. 60953				
ILLINOIS FED. AID PROJECT				



NOTE:
THE TRAFFIC SIGNAL CONTROLLER EQUIPMENT
FOR THIS PROJECT SHALL BE "ECONOLITE" TO
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WORK AREA SHALL BE INCIDENTAL TO THE RELATED PAY ITEM SUCH
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UNMOWED FIELDS SHALL BE SEEDED IN ACCORDANCE WITH STANDARD
SPECIFICATIONS 252 AND 250 RESPECTIVELY.



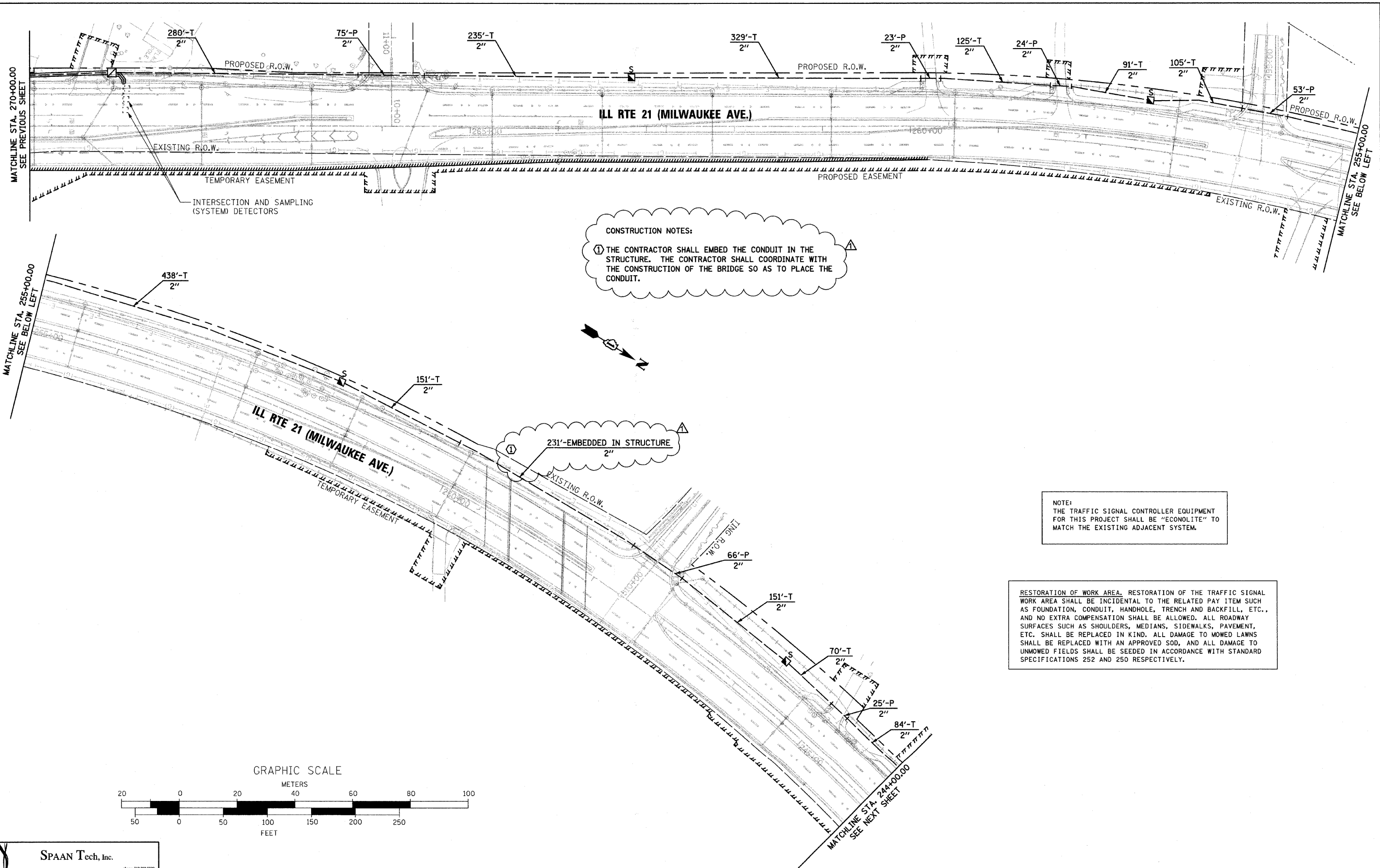
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TEMPORARY INTERCONNECT PLAN - SHEET 1 OF 5
ILL RTE 21 (MILWAUKEE AVE.)

SCALE: 1" = 50' SHEET NO. 22 OF 41 SHEETS STA. 295+00.00 TO STA. 280+00.00

F.A.P. RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
330	128R-3	LAKE	518	209A
CONTRACT NO. 80953				
ILLINOIS FED. AID PROJECT				



CONSTRUCTION NOTES:

① THE CONTRACTOR SHALL EMBED THE CONDUIT IN THE STRUCTURE. THE CONTRACTOR SHALL COORDINATE WITH THE CONSTRUCTION OF THE BRIDGE SO AS TO PLACE THE CONDUIT.

NOTE:

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

RESTORATION OF WORK AREA. RESTORATION OF THE TRAFFIC SIGNAL WORK AREA SHALL BE INCIDENTAL TO THE RELATED PAY ITEM SUCH AS FOUNDATION, CONDUIT, HANDHOLE, TRENCH AND BACKFILL, ETC., AND NO EXTRA COMPENSATION SHALL BE ALLOWED. ALL ROADWAY SURFACES SUCH AS SHOULDERS, MEDIANS, SIDEWALKS, PAVEMENT, ETC. SHALL BE REPLACED IN KIND. ALL DAMAGE TO MOWED LAWNS SHALL BE REPLACED WITH AN APPROVED SOD, AND ALL DAMAGE TO UNMOWED FIELDS SHALL BE SEEDING IN ACCORDANCE WITH STANDARD SPECIFICATIONS 252 AND 250 RESPECTIVELY.

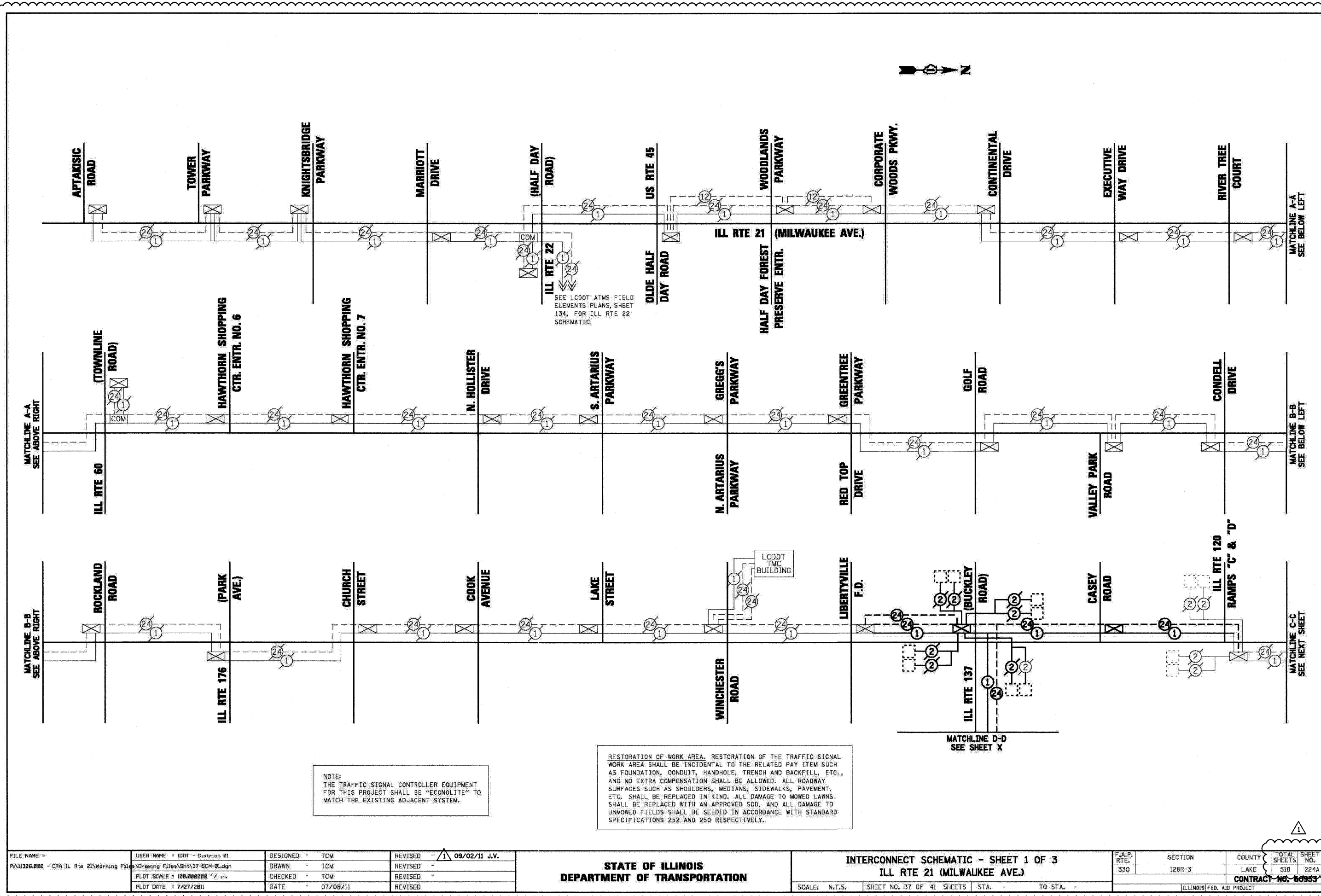
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	HDR Fullerton Parkway.tbl	DATE - 04/13/11	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

INTERCONNECT PLAN - SHEET 3 OF 9
 ILL RTE 21 (MILWAUKEE AVE.) - LIBERTYVILLE FIRE STATION
 TO ILL RTE 120 RAMPS C & D
 SCALE: 1" = 50' SHEET NO. 30 OF 41 SHEETS STA. 270+00.00 TO STA. 244+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
330	128R-3	LAKE	518	217
CONTRACT NO. 60953				
ILLINOIS FED. AID PROJECT				



GENERAL NOTES - ROADWAY LIGHTING

1. SPlicing OF CONDUCTORS SHALL BE IN POLE BASES OR WEATHER TIGHT JUNCTION BOXES ONLY. SPlices BELOW GRADE WILL NOT BE PERMITTED.
2. LIGHTING CIRCUITS SHALL BE WIRED IN ACCORDANCE WITH THE PLANS. DEVIATIONS WILL NOT BE PERMITTED WITHOUT PRIOR APPROVAL OF THE ENGINEER.
3. THE CONTRACTOR SHALL TAKE ALL NECESSARY MEASURES TO RESTORE ANY SPECIALIZED LANDSCAPING (DECORATIVE ROCKS, PLANTS, ETC.).
4. ALL WORK SHALL CONFORM TO THE LATEST IDOT AND IDOT DISTRICT 1 STANDARDS, SPECIFICATIONS, SUPPLEMENTAL SPECIFICATIONS, SPECIAL PROVISIONS, NATIONAL ELECTRICAL CODE, AND NATIONAL ELECTRICAL SAFETY CODE.
5. BURIED UTILITY LOCATIONS SHOWN ON THE PLAN SHEETS ARE APPROXIMATE ONLY. THE CONTRACTOR SHALL VERIFY LOCATIONS OF ALL UTILITIES BEFORE STARTING WORK.
6. ALL ELECTRICAL EQUIPMENT SHALL BE UL LISTED AND LABELED.
7. ALL CONDUITS SHALL BE SEALED.
8. ALL CIRCUIT WIRES SHALL BE LABELED WITH CIRCUIT IDENTIFICATION.
9. ALL LAMPS SHALL BE FURNISHED AS PART OF THE CONTRACT.
- 10.CIRCUITS SHALL BE TESTED PER SPECIFICATION.
- 11.THE LOCATIONS OF ALL PROPOSED EQUIPMENT ARE ILLUSTRATED DIAGRAMMATICALLY. THE ACTUAL LOCATION IN THE FIELD SHALL MEET THE APPROVAL OF THE ENGINEER. IN NO CASE SHOULD THE FACE OF THE POLE BE LESS THAN THE IDOT GUIDELINE OF 2'-0" FROM THE BACK OF THE CURB.
- 12.ALL MEASUREMENTS ARE APPROXIMATE. THE CONTRACTOR SHALL VERIFY MEASUREMENTS IN THE FIELD.
- 13.IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY THE EXISTING INSTALLATIONS AND DATA PRIOR TO BIDDING.
- 14.THE CONTRACTOR MUST MAINTAIN SAFE EQUIPMENT AND WORKING CLEARANCES FROM THE EXISTING OVERHEAD ELECTRIC LINES. THE CONTRACTOR SHALL PLAN HIS WORK CONSIDERING LINES TO BE IN SERVICE AND ENERGIZED THROUGHOUT THE CONSTRUCTION PERIOD.
- 15.GROUNDING CONDUCTORS SHALL BE CONTINUOUS, INSULATED, RUN TOGETHER WITH THE CIRCUIT CONDUCTORS AND PROPERLY BONDED TO POLES, HANDHOLES, BOXES, ETC.
- 16.ALL NEW UNIT DUCTS AND UNDERGROUND CONDUITS SHALL BE PLACED A MINIMUM OF 30" BENEATH THE GROUND SURFACE (FINAL GRADE), UNLESS NOTED OTHERWISE.
- 17.THE CONTRACTOR SHALL COORDINATE INSTALLATION OF CONDUITS, FOUNDATIONS AND UNIT DUCTS WITH THE ROADWAY, CURB AND SIDEWALK WORK, AND TRAFFIC SIGNAL WORK AND WITH UNDERGROUND UTILITIES.
- 18.THE EXISTING LIGHTING SYSTEM VOLTAGE WITHIN THE PROJECTS LIMITS IS 240V.
- 19.THE COST OF SPlicing TEMPORARY CONDUCTORS TO EXISTING CONDUCTORS IN EXISTING POLES SHALL BE INCIDENTAL TO THE PAY ITEM FOR AERIAL CABLE.
- 20.TEMPORARY LIGHTING SHALL REMAIN IN SERVICE UNTIL THE PERMANENT LIGHTING SYSTEM IS IN OPERATION.
- 21.TO MAINTAIN THE STRUCTURAL INTEGRITY OF THE LIGHT POLES, THE LIGHT POLES SHALL NOT BE ERECTED AND/OR LEFT TO STAND WITHOUT LUMINAIRES.
- 22.THE CONTRACTOR SHALL REQUEST A FORMAL MAINTENANCE TRANSFER FROM THE IDOT BEFORE WORK BEGINS. CONTACT NEIL THAKKAR, PHONE (708) 524-2145.
23. ALL 10" DIAMETER ALUMINUM LIGHT POLES SHALL BE FURNISHED WITH 9" HIGH TRANSFORMER BASES.

SHEET INDEX

SHEET NO.	TITLE
LT-01	GENERAL NOTES, LEGEND, SHEET INDEX
LT-02	PROPOSED INTERSECTION LIGHTING PLAN
LT-03	TEMPORARY LIGHTING PLAN
LT-04	INTERSECTION LIGHTING - REMOVAL PLAN
LT-05	WIRING DIAGRAM
LT-06	PROPOSED PEDESTRIAN UNDERPASS LIGHTING PLAN

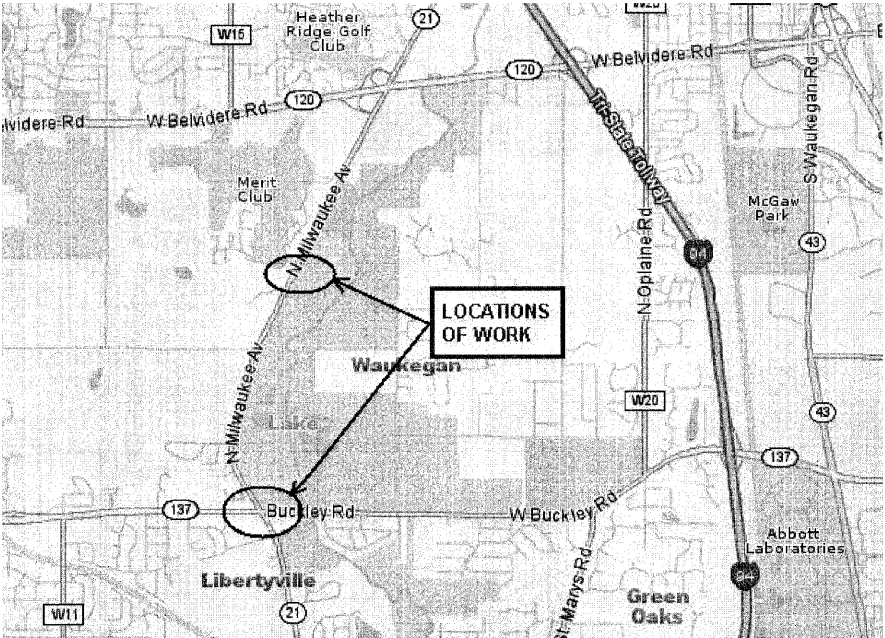
DETAILS

SHEET NO.	IDOT DIST 1 DETAIL NO.	TITLE
LT-07	BE-215	LIGHTING CONTROLLER - LM
LT-08	(Modified)	LIGHTING CONTROLLER, PEDESTAL MOUNT (UNDERPASS
LT-09	BE-301	LIGHT POLE FOUNDATION, 40' TO 47 1/2' M.H. 15" BOLT CIRCLE
LT-10	BE-400	LIGHT POLE, ALUMINUM, TRUSS TYPE, 47.5 FT. M.H.
LT-11	BE-701	LUMINAIRE SAFETY CABLE ASSEMBLY
LT-12	BE-702	MISC. DETAILS, SHEET A - CABLE SPLICE, POLE WIRING, TRENCH DETAIL
LT-13	BE-800	TEMPORARY LIGHT POLE DETAILS
LT-14	BE-801	TEMPORARY AERIAL CABLE INSTALLATION.

ABBREVIATIONS

A	AMPERES
AC	ALTERNATING CURRENT
ADA	AMERICANS WITH DISABILITIES ACT
C	CONDUIT
CKT	CIRCUIT
COMED	COMMONWEALTH EDISON
DCO	DUPLEX CONVENIENCE OUTLET
DIA	DIAMETER
E	EXISTING LIGHTING UNIT TO REMAIN
EPR	ETHYLENE PROPOLYENE RUBBER
FT	FEET
GND	GROUND
HPS	HIGH PRESSURE SODIUM
IDOT	ILLINOIS DEPARTMENT OF TRANSPORTATION
IN	INCHES
LCFP	LAKE COUNTY FOREST PRESERVES
LT	LEFT
MA	MAST ARM
MH	MOUNTING HEIGHT
MTW	MACHINE TOOL WIRE
P	PUSHED
PC	PHOTOCELL CONTROL
PH	PHASE
PVC	POLYVINYL CHLORIDE
R	EXISTING LIGHTING UNIT TO BE REMOVED (OWNER SALVAGED)
RGSC	RIGID GALVANIZED STEEL CONDUIT
RT	RIGHT
STA	STATION
T	TEMPORARY
TYP	TYPICAL
UD	UNIT DUCT
UNO	UNLESS NOTED OTHERWISE
V	VOLTS
W	WATTS
W	WIRES

SYMBOL LIST				
DESCRIPTION	PROPOSED	EXISTING TO REMAIN	EXISTING TO BE REMOVED	TEMPORARY
PROPOSED LIGHTING UNIT: 47.5 FT MH, 15 FT MA 400W HPS M-C-II LUMINAIRE WITH 9" HIGH TRANSFORMER BASE, UNO				
PROPOSED 400W HPS M-C-II LUMINAIRE, 15 FT MA, MOUNTED ON COMBO POLE				
EXISTING LIGHTING UNIT				
UNIT DUCT IN TRENCH, 1 1/2" DIA. POLYETHYLENE WITH 4-1C NO.4, 1/C NO.6 GROUND, (XLP-TYPE USE)				
3" RGSC, PUSHED WITH UNIT DUCT, 1 1/2" DIA. POLYETHYLENE WITH 4-1C NO.4, 1/C NO.6 GROUND, (XLP-TYPE USE)				
RGSC IN TRENCH, SIZE AND CONDUCTORS AS NOTED ON PLANS				
RGSC EMBEDDED IN CONCRETE STRUCTURE, SIZE AND CONDUCTORS AS NOTED ON PLANS				
TEMPORARY LIGHTING UNIT: 60' CLASS 4 WOOD POLE, 400 W HPS WITH PHOTOCELL CONTROL, 50' MH, 15 FT MA, UNO AERIAL CABLE, 3-1/C # 4 WITH MESSENGER WIRE				
GROUND ROD, COPPER-CLAD STEEL, 5/8" DIA. X 10' LONG, UNO				
LIGHTING CONTROLLER CABINET, SINGLE DOOR, BASE MOUNTED, 240/480V, 1-PH, 3-WIRE (DOOR SIDE AS INDICATED)				
ELECTRIC UTILITY POLE				
UNDERPASS LUMINAIRE				



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fax: 312.277.8908
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REVISIONS
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ILLINOIS ROUTE 21 AND ILLINOIS ROUTE 137
GENERAL NOTES, LEGEND, AND SHEET INDEX

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

F.A.P.
RTE.
330

SECTION
128R-3

COUNTY
LAKE

TOTAL
SHEETS
517

SHEET
NO.
229

CONTRACT NO. 60953

ILLINOIS FED. AID PROJECT

LT-01

NOTES

1A.COMBINATION POLE, (2) 15' LIGHTING MAST ARMS AND GROUND INSTALLED PER TRAFFIC SIGNAL PLANS. INSTALL LUMINAIRES.

1B.COMINBATION POLE, (1) 15' LIGHTING MAST ARM AND GROUND INSTALLED PER TRAFFIC SIGNAL PLANS. INSTALL LUMINAIRE.

2. PROPOSED LIGHTING CONTROLLER TO BE INSTALLED FOR TEMPORARY ROADWAY LIGHTING. REFER TO SHEET LT-04.

3. ALL POLES SHALL BE SET BACK 5'-0" FROM BACK EDGE OF CURB TO FACE OF POLE UNLESS NOTED OTHERWISE.

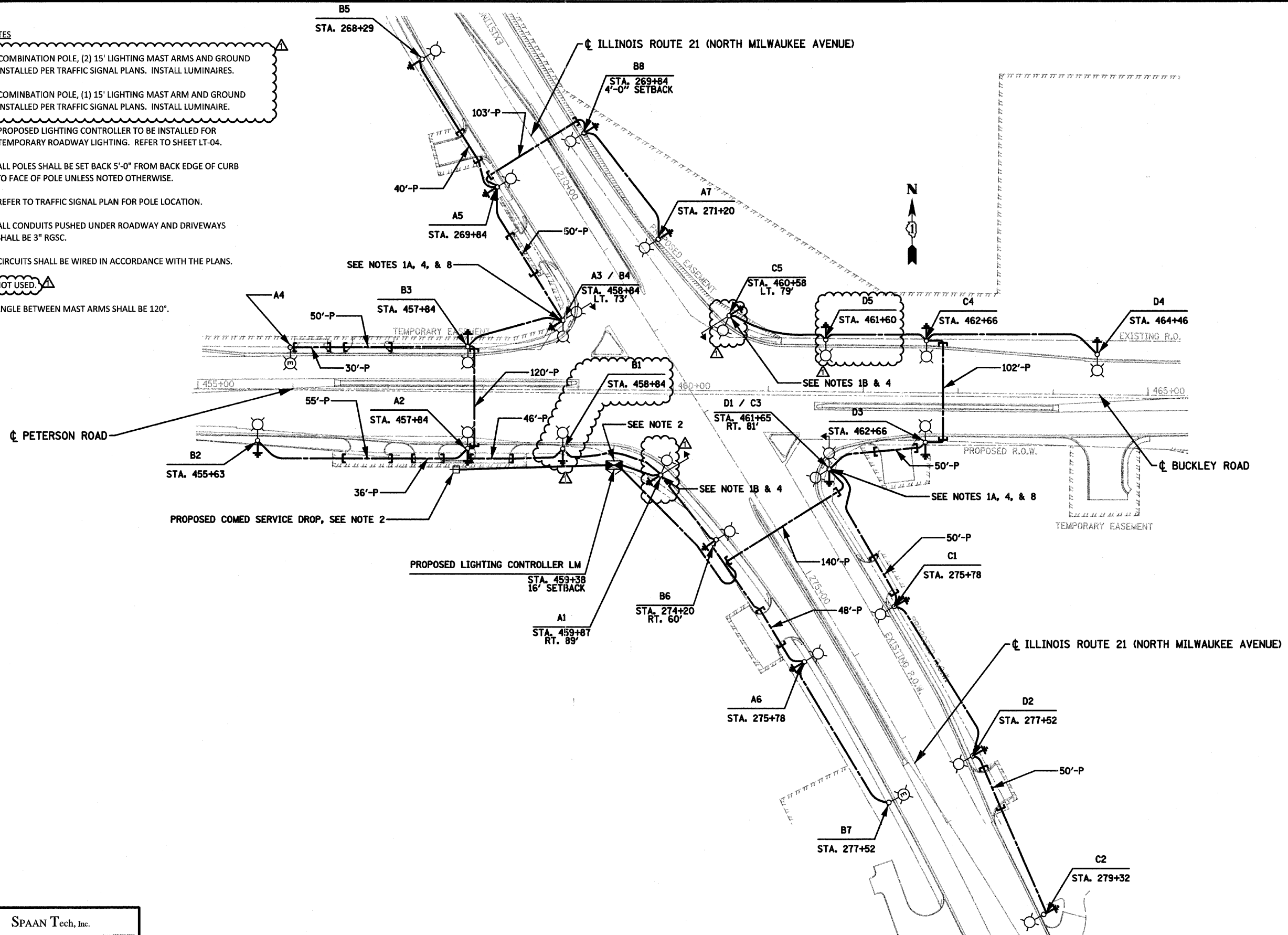
4. REFER TO TRAFFIC SIGNAL PLAN FOR POLE LOCATION.

5. ALL CONDUITS PUSHED UNDER ROADWAY AND DRIVEWAYS SHALL BE 3" RGSC.

6. CIRCUITS SHALL BE WIRED IN ACCORDANCE WITH THE PLANS.

7. NOT USED.

8. ANGLE BETWEEN MAST ARMS SHALL BE 120°.



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web: www.spaanTech.com

LT-B2.dgn
STI - PDF.plt
9/1/2011 10:49:03 AM

USER NAME = Manish Jha

DESIGNED - JB

REVISED - 09/02/11 JB

DRAWN - MJ

REVISED -

PLOT SCALE = 100.000000' / in.

CHECKED - YK

REVISED -

SpaanTech - By LineWeight - graycolor.tbl

DATE - 04/13/11

REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

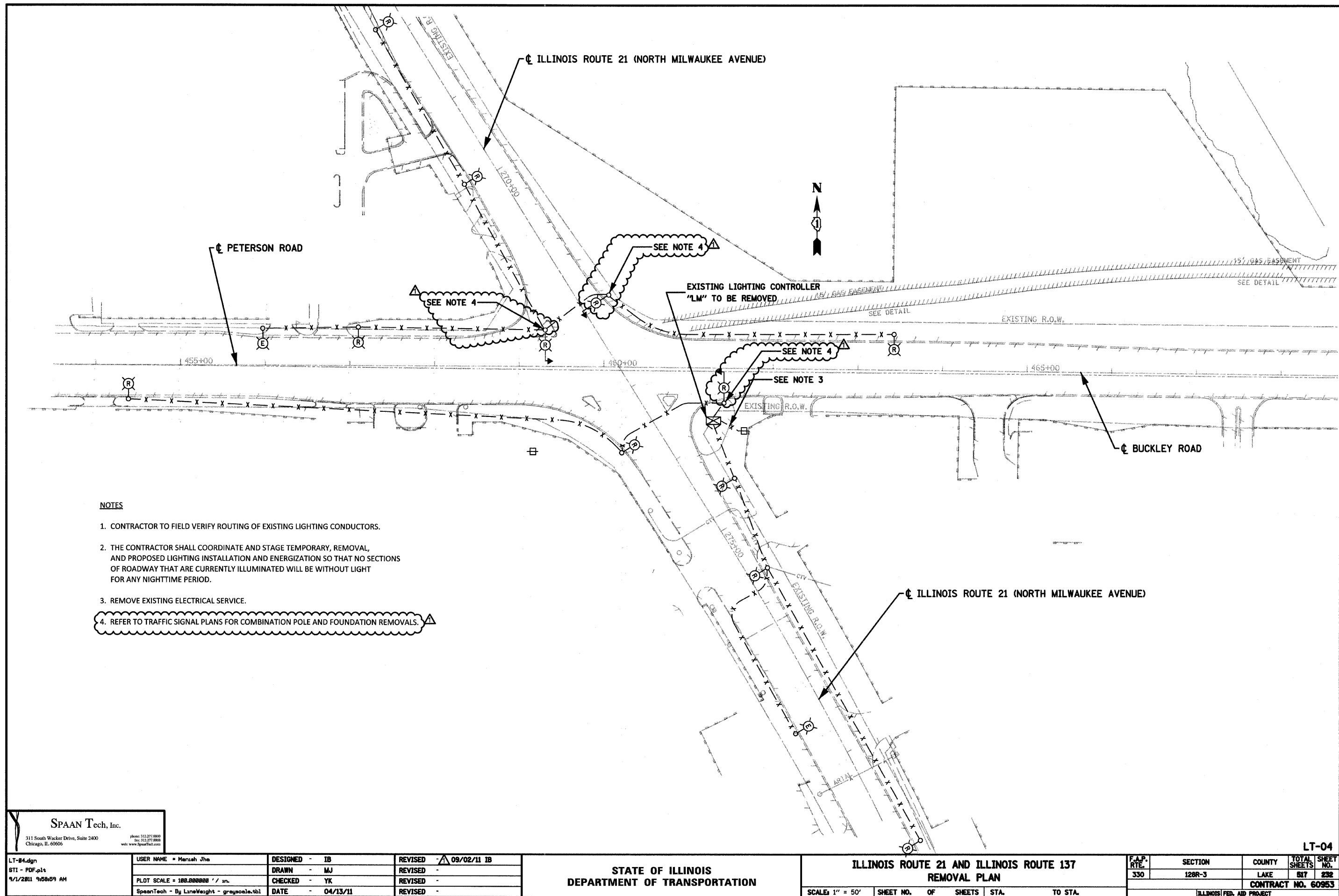
ILLINOIS ROUTE 21 AND ILLINOIS ROUTE 137
PROPOSED INTERSECTION LIGHTING PLAN

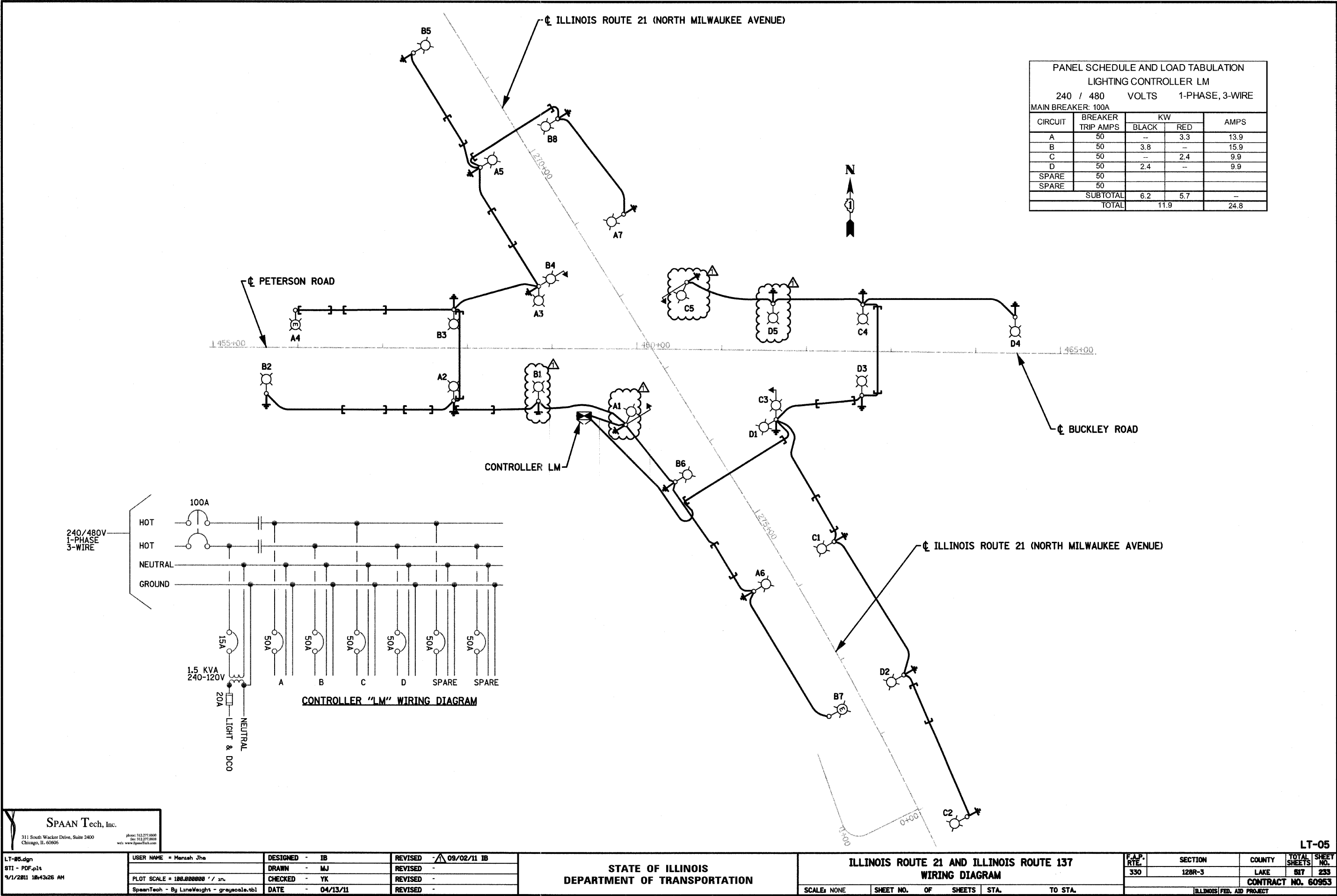
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SHEET NO. OF SHEETS STA. TO STA.

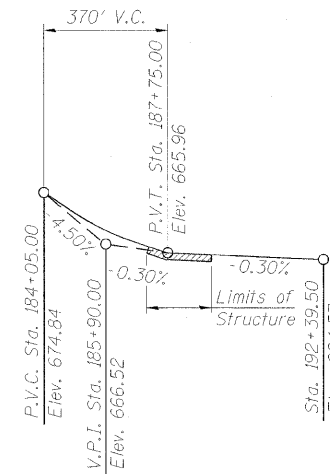
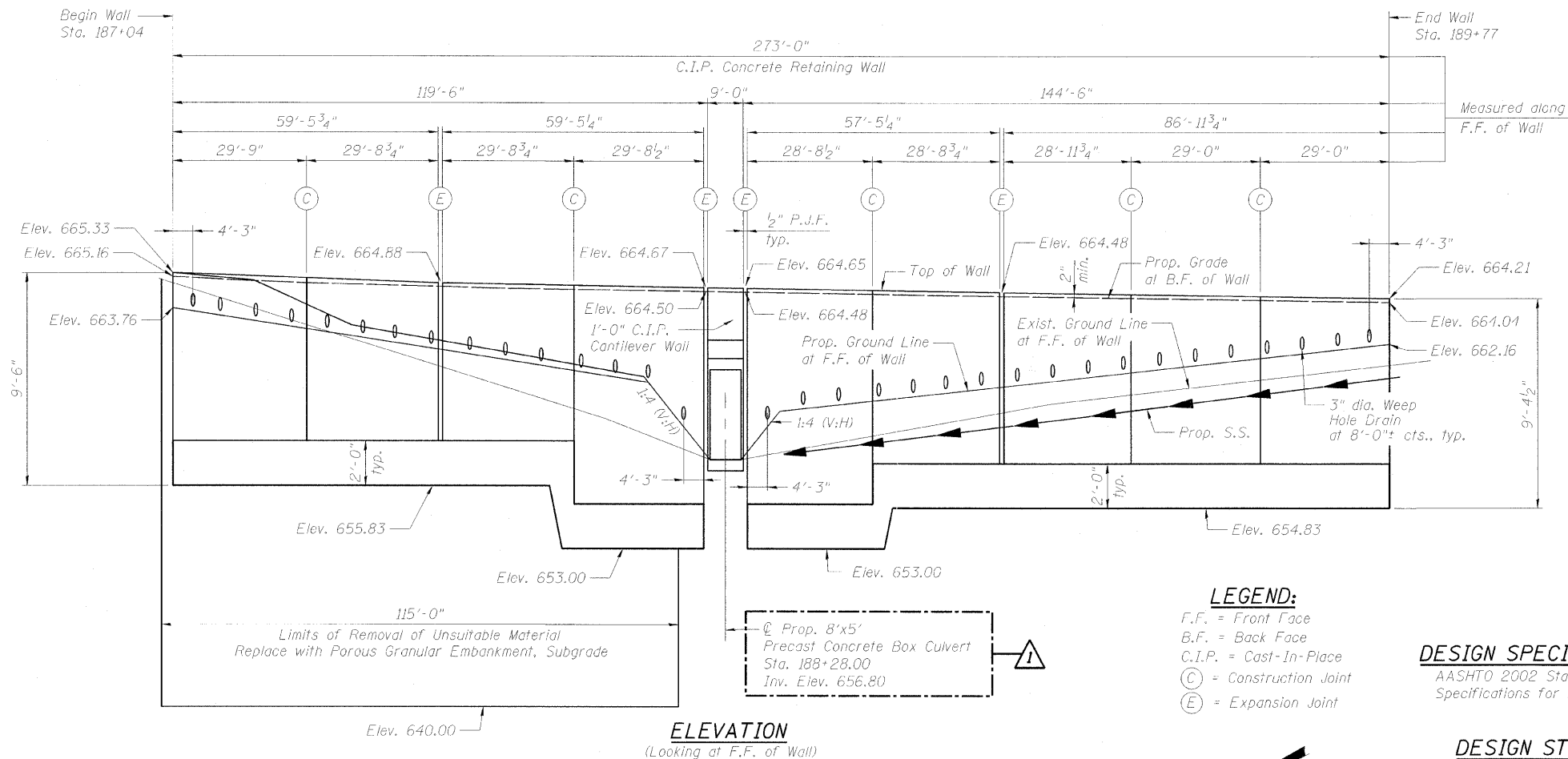
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
330	128R-3	LAKE	617	230
CONTRACT NO. 60953				
ILLINOIS FED. AID PROJECT				

LT-02





Bench Mark:
Chiseled box on top of S.E. wingwall of bridge,
Elevation 669.64



INDEX OF SHEETS

- S1-1 GENERAL PLAN & ELEVATION
- S1-2 PLAN & ELEVATION-I
- S1-3 PLAN & ELEVATION-II
- S1-4 RETAINING WALL SECTIONS
- S1-5 RETAINING WALL DETAILS
- S1-6 TEMPORARY SOIL RETENTION SYSTEM
- S1-7 SOIL BORING LOGS-I
- S1-8 SOIL BORING LOGS-II

TOTAL BILL OF MATERIAL

DESCRIPTION	UNIT	QUANTITY
Structure Excavation	Cu. Yd.	320
Removal and Disposal of Unsuitable Material for Structures	Cu. Yd.	4,600
Concrete Structures	Cu. Yd.	200.0
Form Liner Textured Surface	Sq. Ft.	1,670
Reinforcement Bars, Epoxy Coated	Pound	21,630
Geocomposite Wall Drain	Sq. Yd.	106
Concrete Gutter, Type B	Foot	273
Temporary Soil Retention System	Sq. Ft.	7,600
Porous Granular Embankment, Subgrade	Cu. Yd.	3,230
Porous Granular Embankment, Special	Cu. Yd.	318
Stain For Concrete Structures	Sq. Yd.	186

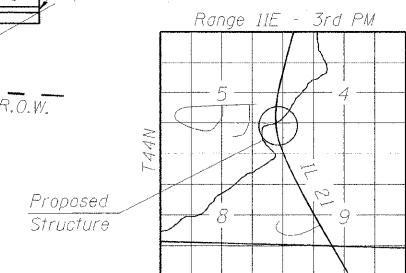
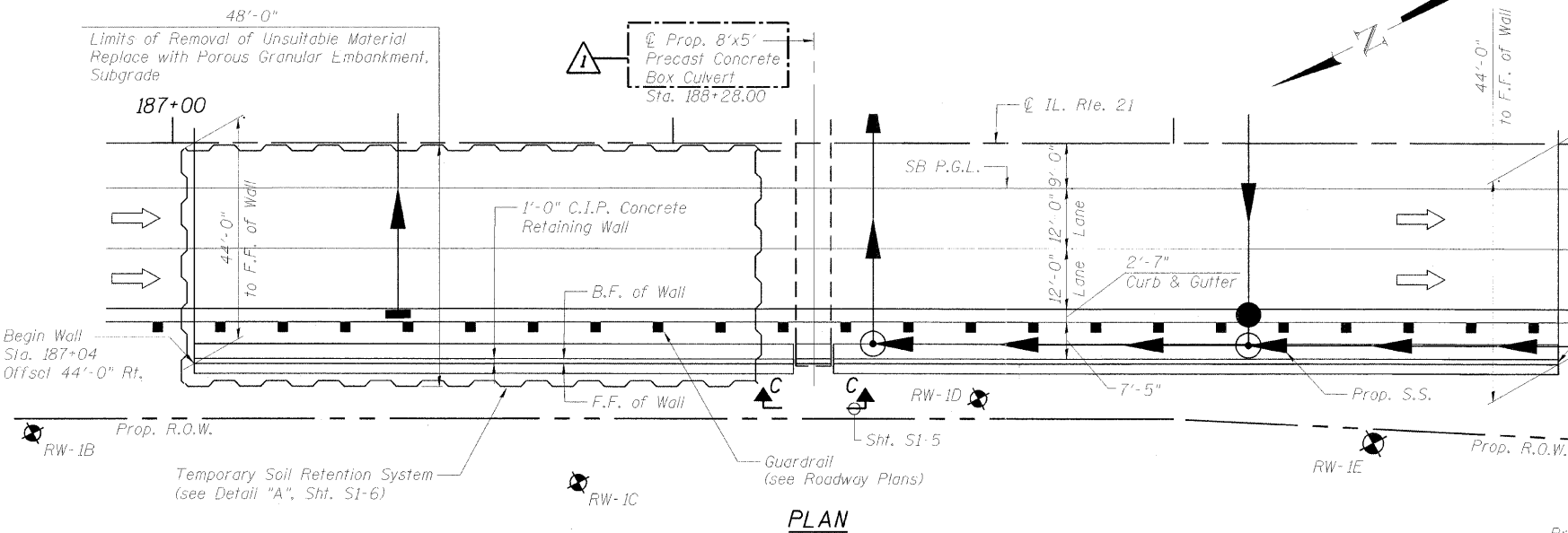
DESIGN SPECIFICATIONS

AASHTO 2002 Standard
Specifications for Highway Bridges

DESIGN STRESSES

FIELD UNITS

$f'_c = 3,500$ psi
 $f_y = 60,000$ psi (Reinforcement)
 $f_y = 36,000$ psi (Structural Steel)

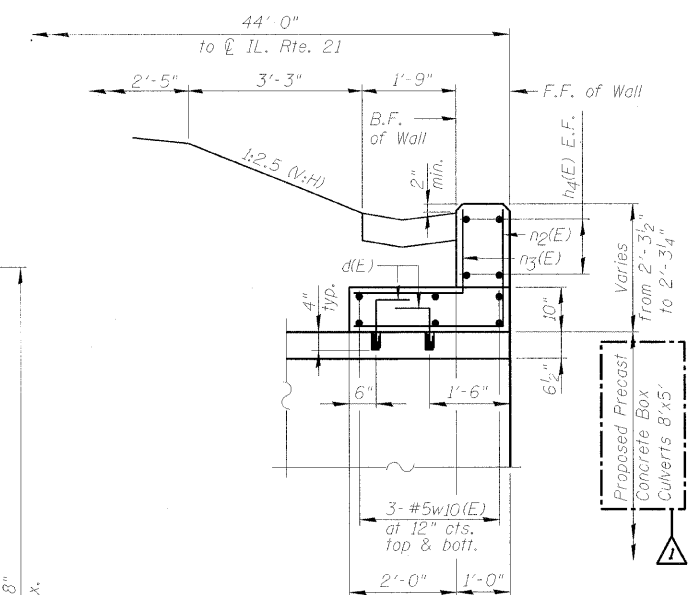


BHADRESH N. SHAH
LICENSED STRUCTURAL ENGINEER
STATE OF ILLINOIS LIC. No. 081-004476
EXPIRES: 11-30-12

GENERAL PLAN & ELEVATION
ILLINOIS ROUTE 21 - RETAINING WALL NO. 1
F.A.P. 330 SEC. 128R-3
LAKE COUNTY
STATION 187+04.00 TO 189+77.00
STRUCTURE NO. 049-W017

CHRISTIAN-ROGE & ASSOCIATES, INC.

FILE NAME = 0168953-01-GPE.dgn	USER NAME =	DESIGNED - J.C.N./B.N.S.	REVISED - 9/2/2011 J.C.N.	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	GENERAL PLAN & ELEVATION STRUCTURE NO. 049-W017	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
		CHECKED - B.N.S.	REVISED -			330	128R-3	LAKE	518	286	
	PLOT SCALE =	DRAWN - F.M.	REVISED -			CONTRACT NO. 60953					
	PLOT DATE =	CHECKED - B.N.S./J.C.N.	REVISED -			ILLINOIS FED. AID PROJECT					



SECTION B-B

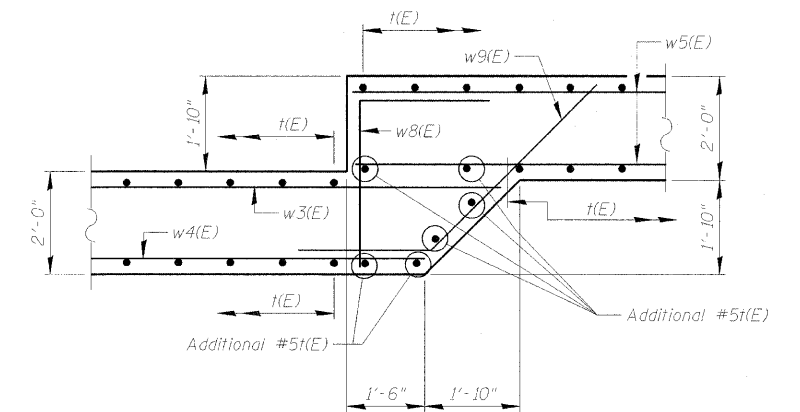
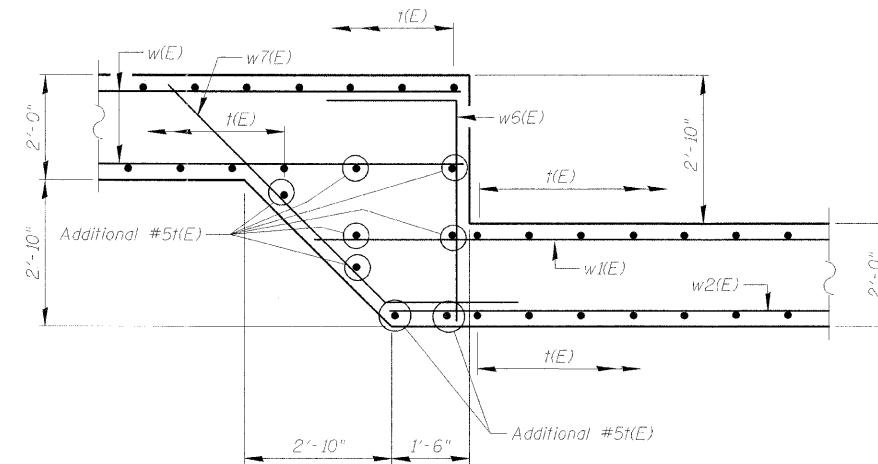
Diagram illustrating the wall drain system components:

- B.F. of Wall Stem
- Geocomposite Wall Drain
- Cut Impervious side of Geocomposite as required to ensure flow
- 3" dia. Weep Hole
- 1'-0" vertical distance

WEEP HOLE DRAIN DETAIL

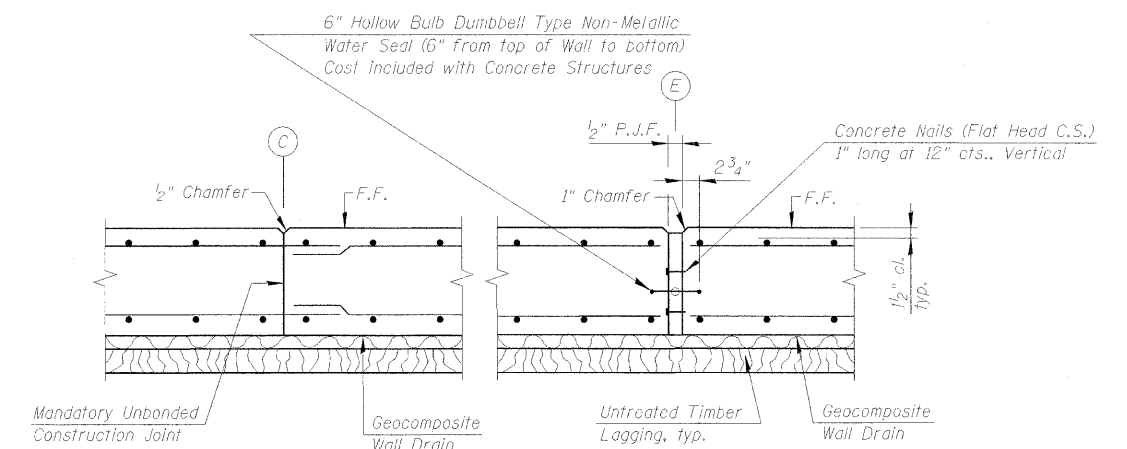
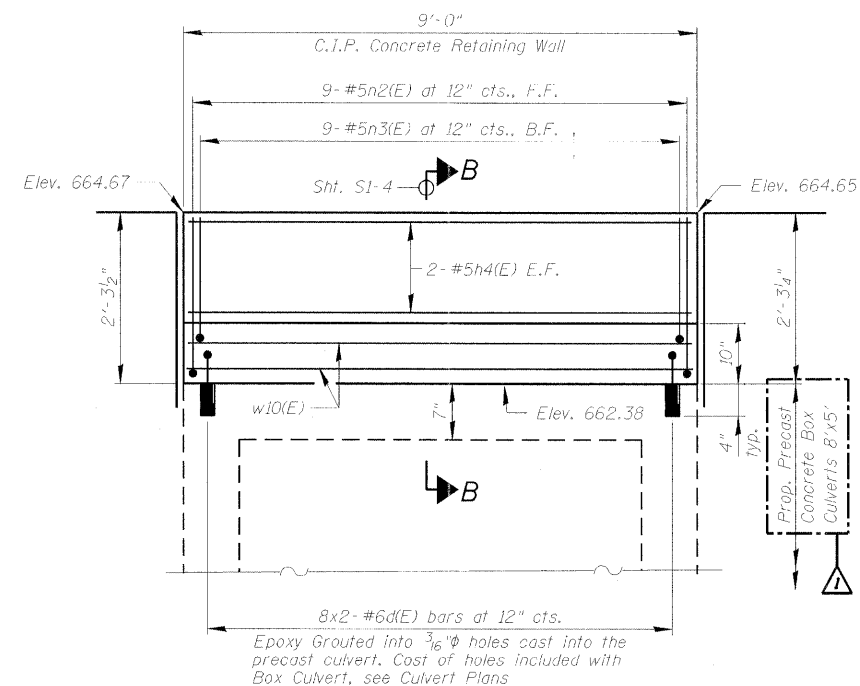
CHRISTIAN-ROGE &
ASSOCIATES, INC.

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	PLOT DATE =	CHECKED - B.N.S./J.C.N.	REVISED -			ILLINOIS FED. AID PROJECT					
						SHEET NO. S1-4 OF S1-8 SHEETS					



LEGEND:

B.F. = Back Face
F.F. = Front Face
E.F. = Each Face
C.I.P. = Cast-In-Place



CONSTRUCTION JOINT

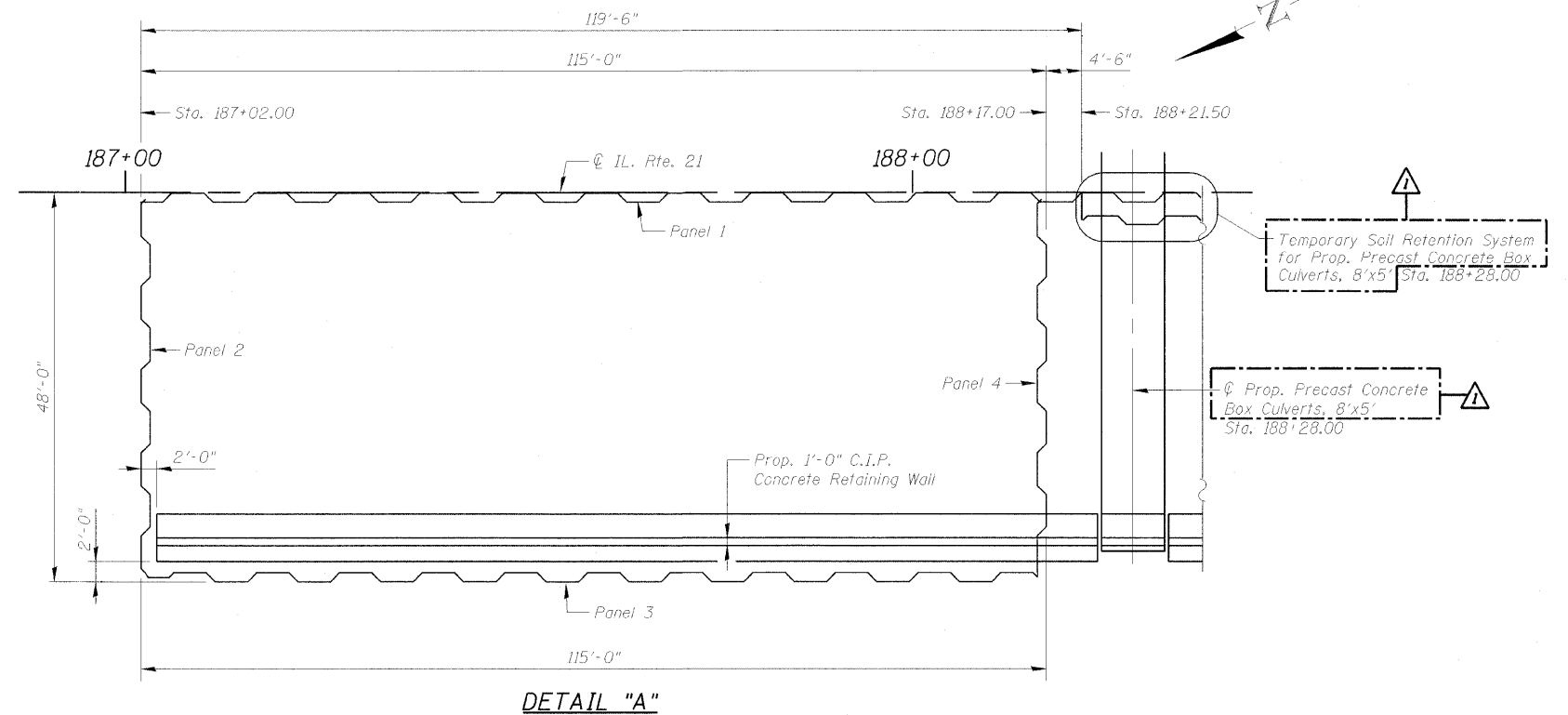
JOINT DETAILS FOR CAST-IN-PLACE T-TYPE WALLS

RETAINING WALL DETAILS
STRUCTURE NO. 049-W017

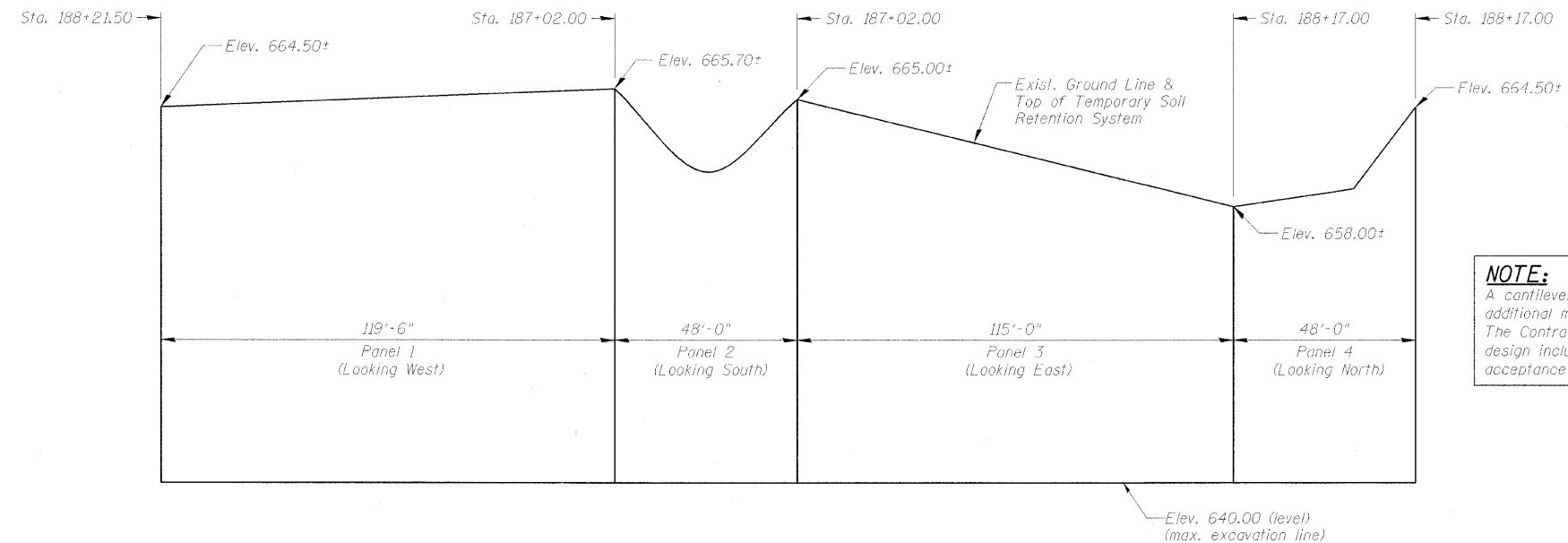


CHRISTIAN-ROGE &
ASSOCIATES, INC.

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	PLOT DATE =	CHECKED - B.N.S./J.C.N.	REVISED -			SHEET NO. S1-5 OF S1-8 SHEETS				
						ILLINOIS FED. AID PROJECT				



LEGEND:
C.I.P. = Cast-In-Place



NOTE:
A cantilevered sheet piling design does not appear feasible and additional members or other retention systems may be necessary. The Contractor shall submit a temporary soil retention system design including plan details and calculations for review and acceptance by the Engineer.

**ELEVATION OF PANELS
TEMPORARY SOIL RETENTION SYSTEM**

**TEMPORARY SOIL RETENTION SYSTEM
STRUCTURE NO. 049-W017**

**CHRISTIAN-ROGE &
ASSOCIATES, INC.**

FILE NAME = D:\E0403-05-temp soil ret system.dgn	USER NAME =	DESIGNED - J.C.N./B.N.S.	REVISD - 9/2/2011 J.C.N.	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	TEMPORARY SOIL RETENTION SYSTEM STRUCTURE NO. 049-W017	SHEET NO. S1-6 OF S1-8 SHEETS	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		CHECKED - B.N.S.	REVISD -				330	128R-3	LAKE	518	291
	PLOT SCALE =	DRAWN - F.M.	REVISD -				CONTRACT NO. 60953				
	PLOT DATE =	CHECKED - B.N.S./J.C.N.	REVISD -				ILLINOIS FED. AID PROJECT				

INDEX OF SHEETS

- S9-1. General Plan and Elevation
- S9-2. General Notes, Bill of Materials and Index of Sheets
- S9-3. Typical Wall Section and Details
- S9-4. Partial Plan and Elevation I
- S9-5. Partial Plan and Elevation II
- S9-6. Partial Plan and Elevation III
- S9-7. Partial Plan and Elevation IV
- S9-8. Partial Plan and Elevation V
- S9-9. Soil Boring I
- S9-9A. Soil Boring II

GENERAL NOTES:

1. Reinforcement bars shall conform to the requirements of ASTM A706 Gr. 60.
2. Reinforcement bars designated (E) shall be epoxy coated.
3. The Contractor is responsible for the design and performance of the lagging using no less than a 3" nominal rough-sawn thickness and timber with a minimum allowable bending stress of 1000 psi.
4. Shear stud connectors shall be 3/4" diameter x 6" granular or solid flux filled headed studs automatically end welded to the front flange in the field.
5. Protective Coat shall be applied to all exposed surfaces of the concrete barrier and shall extend 1'-0" minimum below finished grade.
6. The cost of cutting off any piling in excess of that needed shall be included in the cost of "Driving Soldier Piles."
7. All exposed edges shall have a 3/4" chamfer, except as shown otherwise.
8. The Contractor shall locate all existing utilities prior to construction. Any damage to utilities to be repaired at the Contractor's expense. In case of conflict with soldier pile, the maximum spacing between adjacent soldier piles shall be 10'-0".

9. No construction equipment is allowed behind the location of the proposed wall. The soil behind the proposed soldier pile retaining wall shall be placed from below the wall and spread by hand. The walk-behind vibrating compactor shall be used to compact the fill. See civil drawings for landscaping details and pay items.
10. The Contractor shall not damage, cut, scrape, break, or remove any tree or tree branch; attach any rope, wire, nail or other object to any tree; allow any liquid or solid substance or equipment to contact any tree or the soil located within the dripline of any tree or act in any way to affect the vigor or appearance of any tree when driving the soldier piles and/or constructing any portion of the proposed soldier pile retaining wall except as such action is specifically authorized by IDOT and the Lake County Forest Preserve District (LCFPD). Any necessary action by the Contractor that would affect trees, which have not been specifically designated, must be approved in advance by IDOT and the LCFPD.

TOTAL BILL OF MATERIAL

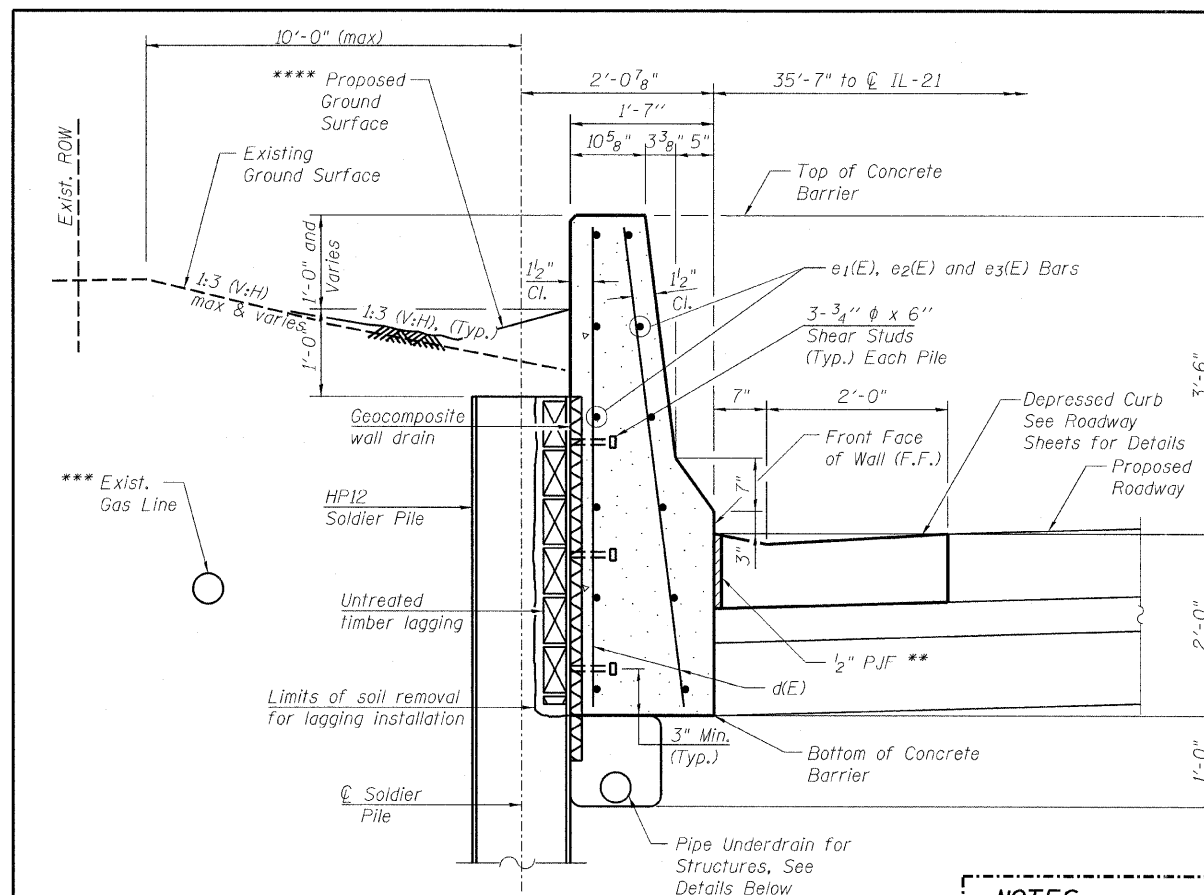
ITEM DESCRIPTION	UNIT	TOTAL
Structure Excavation	Cu. Yd.	168
Concrete Structures	Cu. Yd.	91.0
Protective Coat	Sq. Yd.	272
Shear Stud Connectors	Each	108
Reinforcement Bars, Epoxy Coated	Pound	8,160
Geocomposite Wall Drain	Sq. Yd.	150
Driving Soldier Piles	Foot	696
Untreated Timber Lagging	Sq. Ft.	1,170
Furnishing Soldier Piles (HP Section)	Foot	696
Pipe Underdrains For Structures, 4"	Foot	335

SOLDIER PILE WALL INFORMATION

Pile	Station *	Offset *	Top of Pile Elevation	Pile Tip Elevation	Pile Length (Ft)	No. Stud Shear Connectors
Pile # 1	254+73.56	37.66	681.47	663.85	17.62	3
Pile # 2	254+83.07	37.66	682.62	664.25	18.37	3
Pile # 3	254+92.58	37.66	683.77	664.64	19.13	3
Pile # 4	255+02.09	37.66	684.55	665.05	19.50	3
Pile # 5	255+11.60	37.66	684.95	665.45	19.50	3
Pile # 6	255+21.11	37.66	685.35	665.85	19.50	3
Pile # 7	255+30.62	37.66	685.75	666.25	19.50	3
Pile # 8	255+40.13	37.66	686.15	666.65	19.50	3
Pile # 9	255+49.64	37.66	686.55	667.05	19.50	3
Pile # 10	255+59.16	37.66	686.95	667.45	19.50	3
Pile # 11	255+68.67	37.66	687.35	667.85	19.50	3
Pile # 12	255+78.18	37.66	687.75	668.25	19.50	3
Pile # 13	255+87.69	37.66	688.15	668.65	19.50	3
Pile # 14	255+97.20	37.66	688.55	669.05	19.50	3
Pile # 15	256+06.71	37.66	688.95	669.45	19.50	3
Pile # 16	256+16.22	37.66	689.35	669.85	19.50	3
Pile # 17	256+25.73	37.66	689.75	670.25	19.50	3
Pile # 18	256+35.24	37.66	690.15	670.65	19.50	3
Pile # 19	256+44.76	37.66	690.55	671.05	19.50	3
Pile # 20	256+54.27	37.66	690.95	671.45	19.50	3
Pile # 21	256+63.78	37.66	691.35	671.85	19.50	3
Pile # 22	256+73.29	37.66	691.75	672.25	19.50	3
Pile # 23	256+82.80	37.66	692.16	672.66	19.50	3
Pile # 24	256+92.31	37.66	692.56	673.06	19.50	3
Pile # 25	257+01.82	37.66	692.95	673.45	19.50	3
Pile # 26	257+11.33	37.66	693.35	673.85	19.50	3
Pile # 27	257+20.84	37.66	693.73	674.23	19.50	3
Pile # 28	257+30.36	37.66	694.11	674.61	19.50	3
Pile # 29	257+39.87	37.66	694.49	674.99	19.50	3
Pile # 30	257+49.38	37.66	694.85	675.35	19.50	3
Pile # 31	257+58.89	37.66	695.21	675.71	19.50	3
Pile # 32	257+68.40	37.66	695.57	676.07	19.50	3
Pile # 33	257+77.91	37.66	695.91	676.41	19.50	3
Pile # 34	257+87.42	37.66	695.89	676.75	19.13	3
Pile # 35	257+96.93	37.66	695.49	677.09	18.40	3
Pile # 36	258+06.44	37.66	695.09	677.42	17.67	3
Total =						108

* Stations and Offsets for the soldier piles are given to 1/2" of piles.

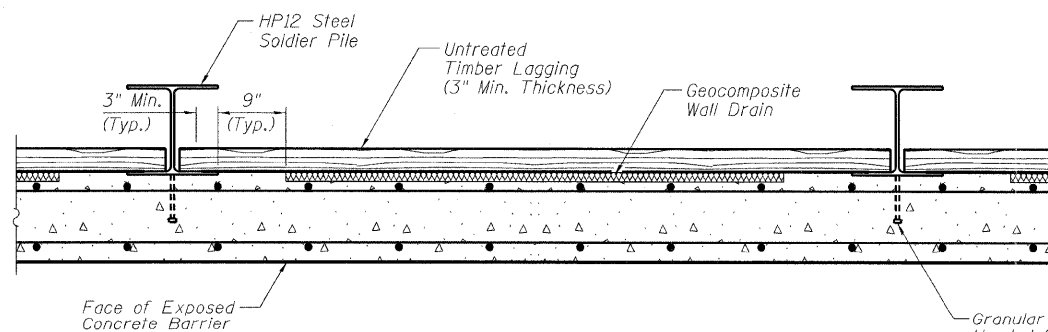
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		CHECKED - JMH	REVISED -			330	128R-3	LAKE	518	341
	PLOT SCALE =	DRAWN - DR	REVISED -			CONTRACT NO. 60953				
	PLOT DATE =	CHECKED - JMH	REVISED -			ILLINOIS FED. AID PROJECT				



**SECTION THRU
SOLDIER PILE WALL**

*** The Contractor shall locate the existing gas line and all other utilities prior to the construction. Any damage to utilities to be repaired at the Contractor's expense.

**** Final grading behind the wall to divert the surface run-off away from the wall. See Civil drawings for Landscaping Details and Pay Items.

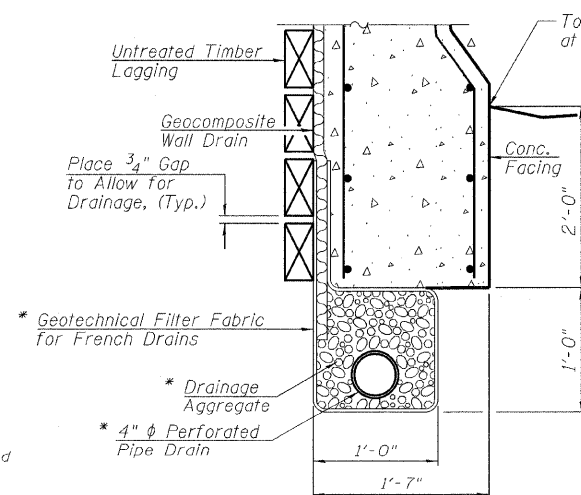


GEOCOMPOSITE WALL DRAIN DETAIL

NOTES:

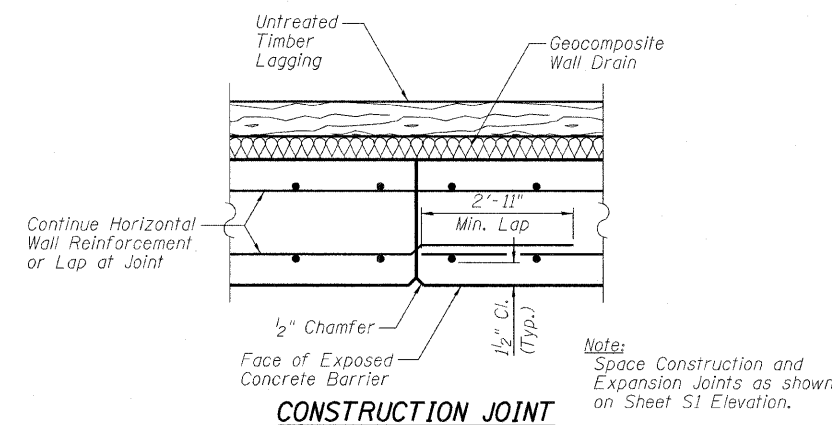
1. No stripping of topsoil should occur on the ground east of the retaining wall.
2. The fill placed behind the wall shall be topsoil. It shall be placed and spread either by hand or by equipment located west of the wall.
3. If the material placed behind the wall requires compaction, it shall be done utilizing walk behind-type equipment.

Granular or Solid Flux Filled Headed Stud Conforming to Article 1006.32 of the Standard Specifications Automatically End Welded to Flange (Typ.)

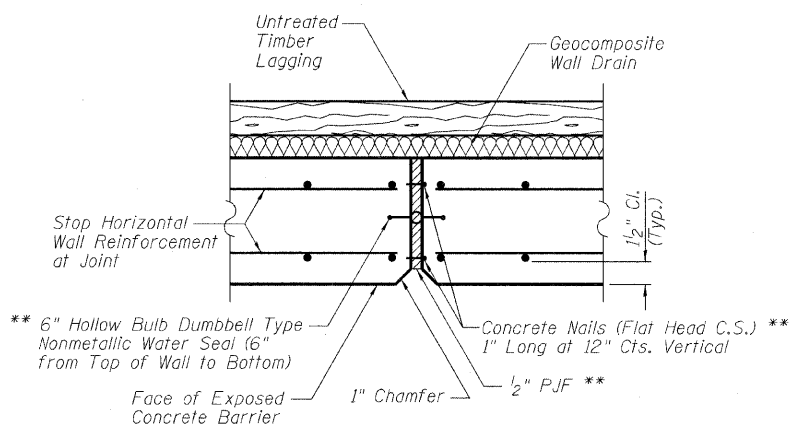


**PIPE UNDERDRAIN DETAIL
BETWEEN SOLDIER PILES**

* Underdrain System Shall Extend to 1'-0" from the Ends of the Wall. Cost Included With "Pipe Underdrain for Structures, 4".

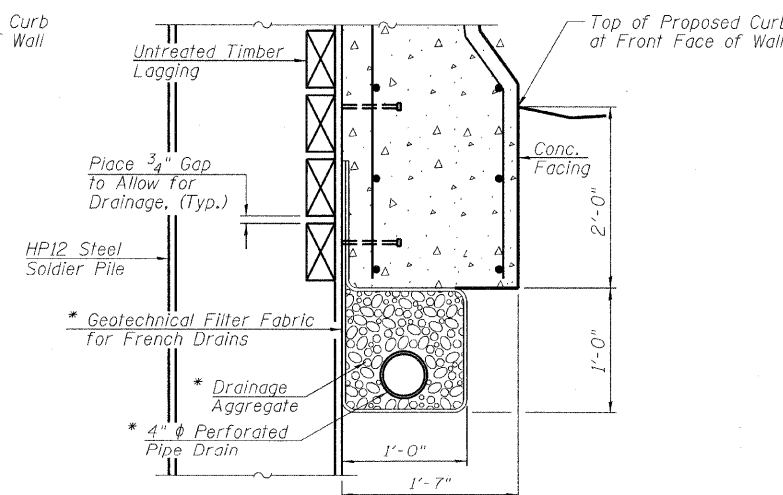


CONSTRUCTION JOINT



EXPANSION JOINT

** Cost Included in Pay Item for Concrete Structures.



**PIPE UNDERDRAIN DETAIL
AT SOLDIER PILES**

FILE NAME =	USER NAME =	DESIGNED - EM	REVISED - 8-31-2011 E.K.M.	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	TYPICAL WALL SECTION AND DETAILS STRUCTURE NO. 049-W041	SHEET NO. S9-3 OF S9-9 SHEETS	F.A.P. RTE. 330	SECTION 128R-3	COUNTY LAKE	TOTAL SHEETS 518	SHEET NO. 342	CONTRACT NO. 60953
PLOT SCALE =	CHECKED - JMH	REVISION -										
PLOT DATE =	DRAWN - DR	REVISION -										
	CHECKED - JMH	REVISION -										

ILLINOIS FED. AID PROJECT

INDEX OF SHEETS

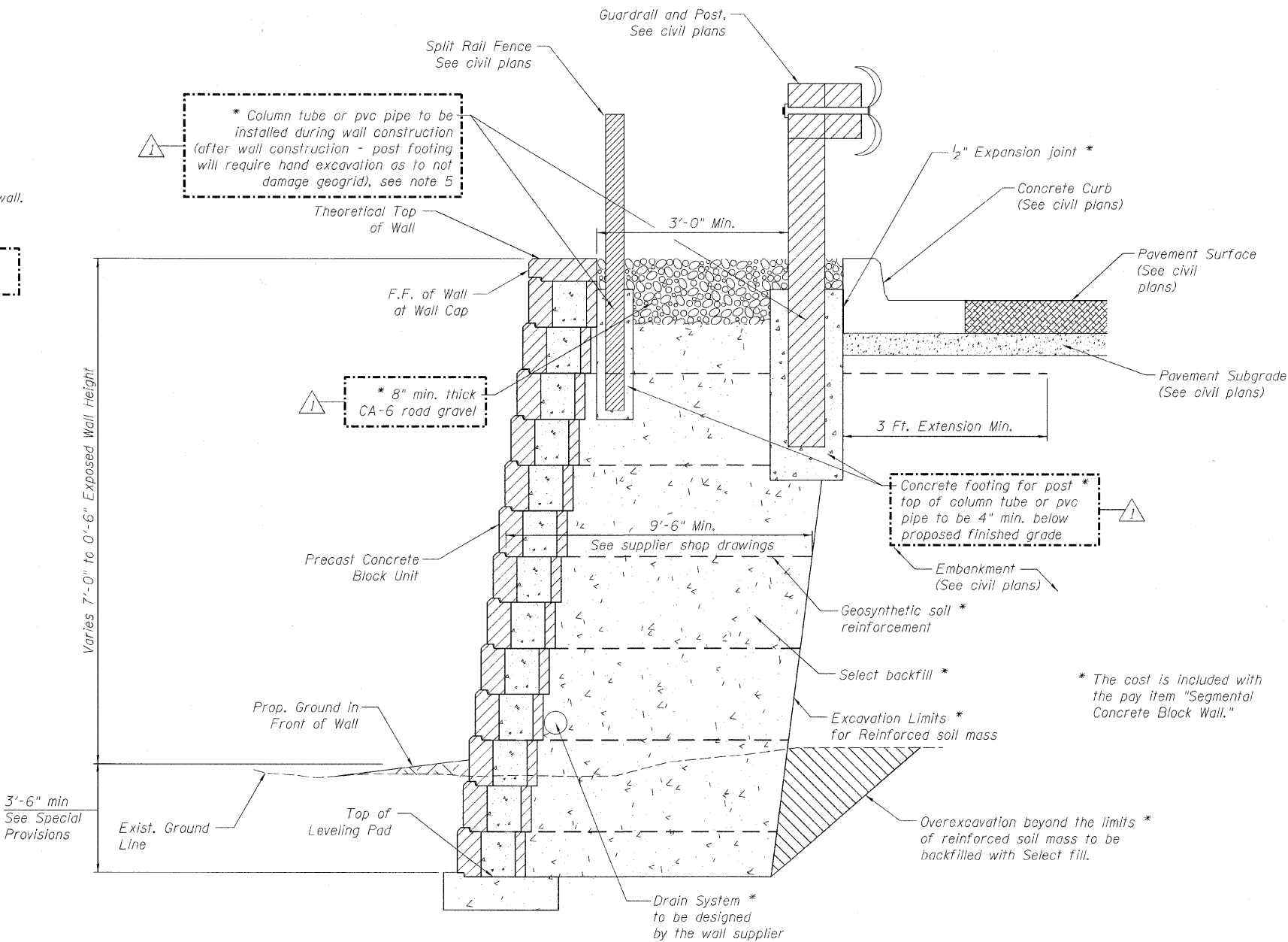
- S10-1 General Plan and Elevation
- S10-2 General Notes, Bill of Materials and Index of Sheets
- S10-3 Soil Borings

TOTAL BILL OF MATERIAL

ITEM DESCRIPTION	UNIT	TOTAL
Segmental Concrete Block Wall	Sq. Ft.	1,120

GENERAL NOTES:

- The Contractor shall locate all existing utilities prior to construction. Any damage to utilities to be repaired at the Contractor's expense.
- The segmental concrete block wall supplier shall design load transfer system to accommodate concrete pipes and catch basins.
- The color of the blocks shall match the colors of natural limestone. The color mix shall also achieve the color variations present in natural limestone. This work shall be included in the pay item for Segmental Concrete Block Wall.
- Final grading in front and behind the wall shall divert the surface run-off away from the wall. The cost of grading is included in the pay item for Segmental Concrete Block Wall. See civil plans for Landscaping details.
- Column tube or pvc pipe shall be 6-inch min. in diameter greater than the post. The length shall be 3'-0" min. for guardrail Type A and 2'-0" min. for split rail fence.



TYPICAL SECTION THRU CONCRETE BLOCK WALL

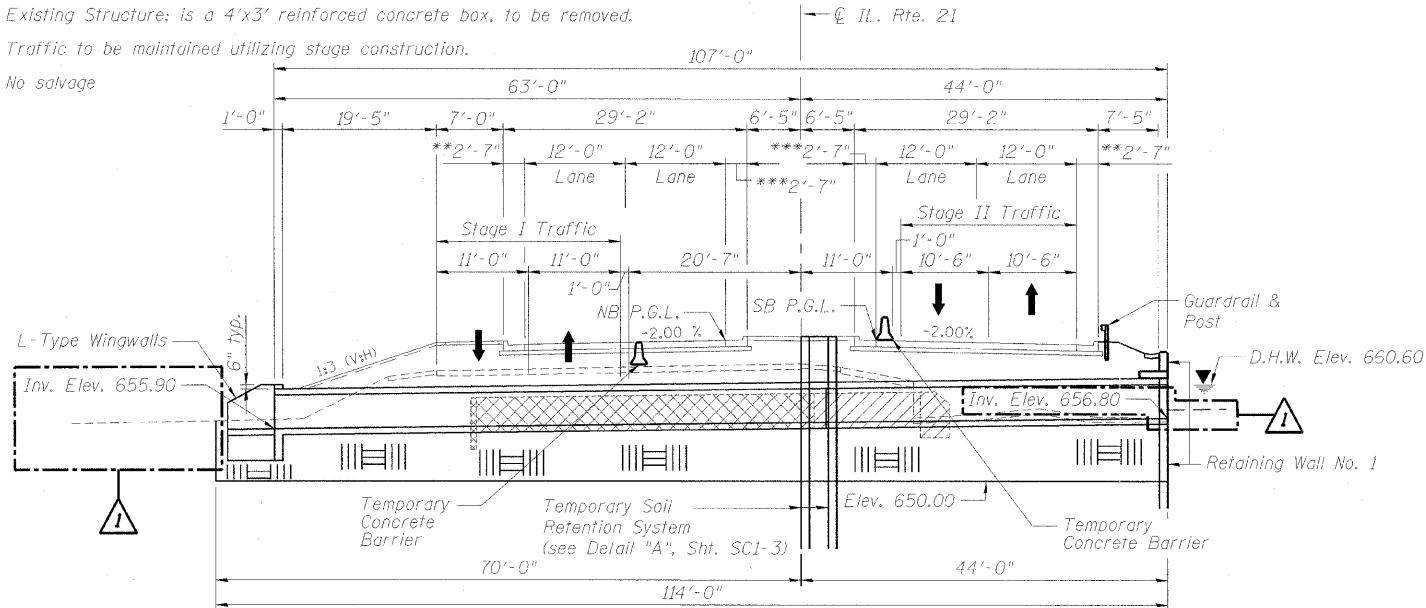
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	PLOT DATE =	CHECKED - JMH	REVISED -									
SHEET NO. S10-2 OF S10-2 SHEETS						ILLINOIS FED. AID PROJECT						
						CONTRACT NO. 60953						

B.M.: Chiseled box on top of S.E. wingwall of bridge over Bull Creek. Elevation 669.64

Existing Structure: is a 4'x3' reinforced concrete box, to be removed.

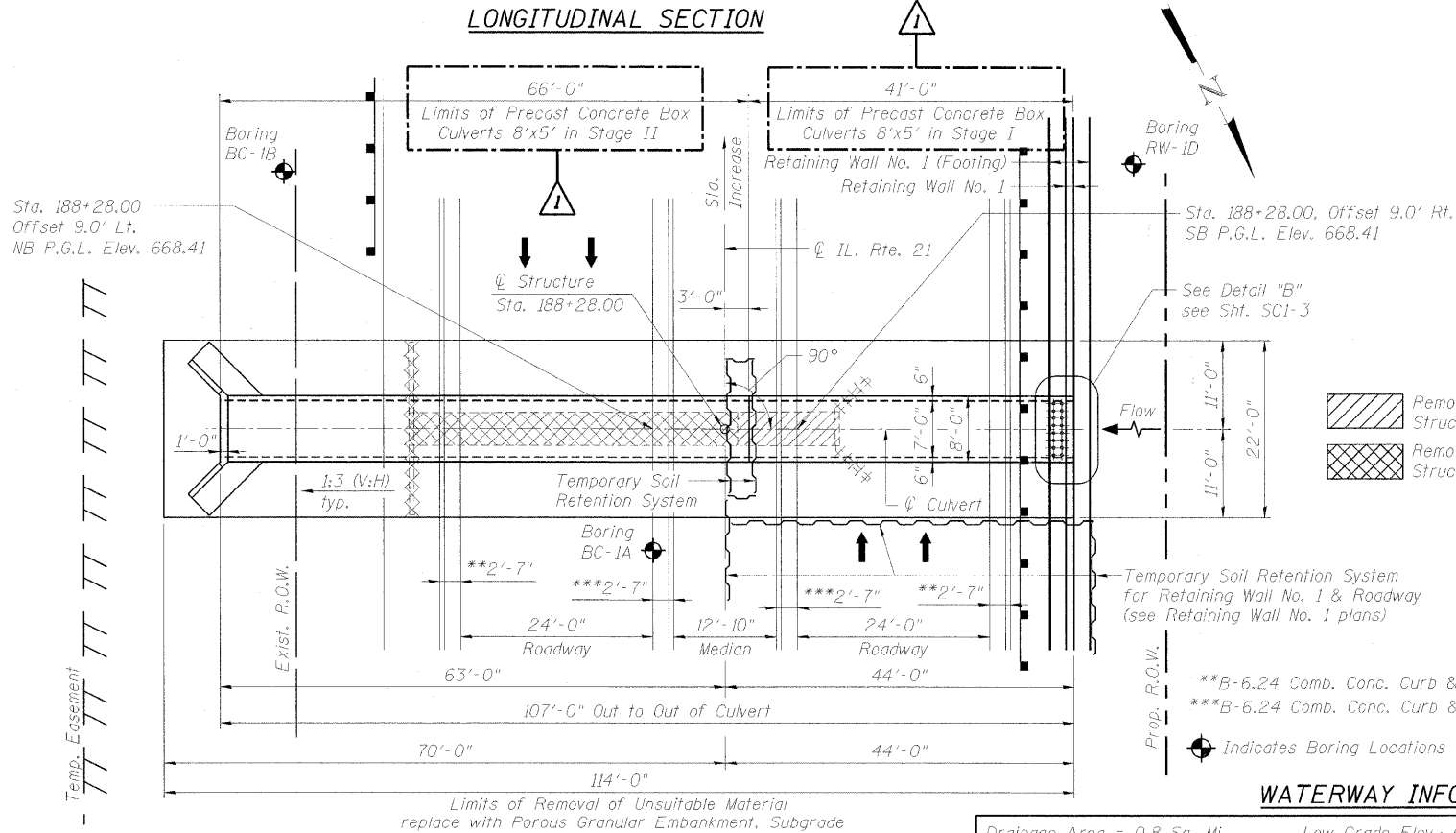
Traffic to be maintained utilizing stage construction.

No salvage



Limits of Removal of Unsuitable Material
replace with Porous Granular Embankment, Subgrade

LONGITUDINAL SECTION



Limits of Removal of Unsuitable Material
replace with Porous Granular Embankment, Subgrade

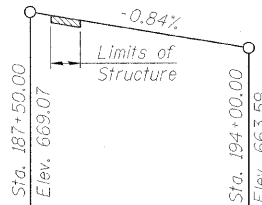
PLAN

WATERWAY INFORMATION TABLE NOTES

- Existing conditions
- Proposed conditions
- FIS Datum Correlation:
FIS RM #55 (Chiseled square on west D/S wingwall of IL. Rte. 21 bridge) Elev. 669.12 - Surveyed BM #36
(Per IDOT survey notes - 12/05/90) Elev. 669.64.
- Based on the Re-Study Data, Des Plaines River water surface elevations are: 50 Year = 660.3 and 100 = 661.3

DESIGN SCOUR ELEVATION TABLE

Design Scour Elevation (ft.)	Upstream	Downstream
	653.00	652.90



PROFILE GRADE (Along NB & SB P.G.L.)

DESIGN SPECIFICATIONS

2002 AASHTO Standard Specifications
for Highway Bridges

LOADING HS20-44

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

DESIGN STRESSES

FIELD UNITS

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

PRECAST UNITS

$f'_c = 5,000$ psi
 $f_y = 65,000$ psi (Welded wire fabric)

GENERAL NOTES:

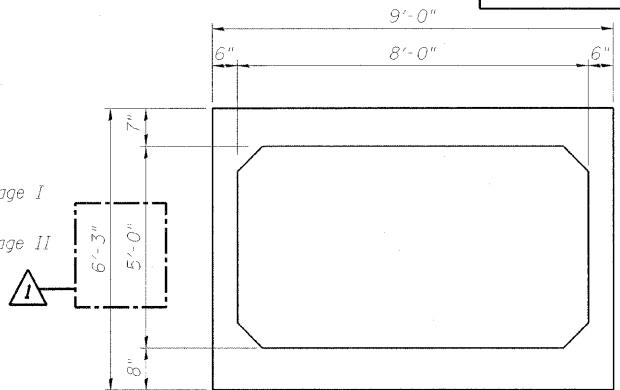
- Reinforcement Bars shall conform to the requirements of ASTM A 706, Gr. 60. See Special Provisions.
- All exposed concrete edges shall be chamfered $\frac{3}{4}$ " unless otherwise noted.
- Reinforcement Bars designated (E) shall be Epoxy Coated.
- The limits and quantities of removal and replacement shown are based on the boring data and may be modified by the District Geotechnical and Field Engineers for variable subsurface conditions encountered in the field.
- The Porous Granular Embankment, Subgrade shall be capped with 6 in. of CA7 and satisfy the Standard Specifications unless otherwise indicated in the Special Provisions. The cost of the capping material shall be included in the Pay Item for "Porous Granular Embankment, Subgrade".

INDEX OF SHEETS

- SC1-1 GENERAL PLAN & ELEVATION
- SC1-2 STAGE CONSTRUCTION DETAILS
- SC1-3 CAST-IN-PLACE END SECTION DETAILS
- SC1-4 SOIL BORING LOGS-I
- SC1-5 SOIL BORING LOGS-II

TOTAL BILL OF MATERIAL

DESCRIPTION	UNIT	QUANTITY
Removal of Existing Structures No. 1	Each	1
Removal and Disposal of Unsuitable Material for Structures	Cu. Yd.	1,160
Reinforcement Bars	Pound	310
Reinforcement Bars, Epoxy Coated	Pound	50
Concrete Box Culverts	Cu. Yd.	5.0
Precast Concrete Box Culverts 8'x5'	Foot	107
Temporary Soil Retention System	Sq. Ft.	626
Porous Granular Embankment, Subgrade	Cu. Yd.	625



SECTION THRU PRECAST CULVERT

(Wall and slab thickness may vary as per manufacturer)

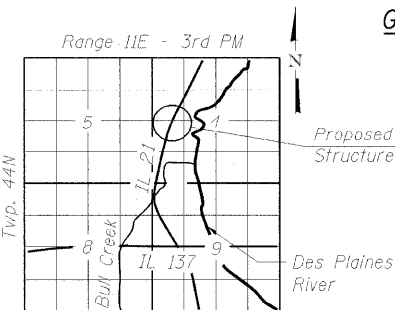


BHADRISH N. SHAH
LICENSED STRUCTURAL ENGINEER
STATE OF ILLINOIS LIC. NO. 081-004476
EXPIRES: 11-30-12

GENERAL PLAN & ELEVATION

ILLINOIS ROUTE 21
F.A.P. 330 SEC. 128R-3
LAKE COUNTY
STATION 188+28.00
STRUCTURE NO. 049-0239
OUTLET NO. 14

CHRISTIAN-ROGE &
ASSOCIATES, INC.



LOCATION SKETCH

WATERWAY INFORMATION

Drainage Area = 0.8 Sq. Mi.			Low Grade Elev.: 661.45 (Exist.) at Sta. 191+00 (Exist.) 663.26 (Prop.) at Sta. 195+08 (Prop.)							
Flood	Freq. Yr.	0 C.F.S.	Opening Sq. Ft.		Nat. H.W.E.		Head - Ft.		Headwater El.	
			Exist.	Prop.			Exist.	Prop.	Exist.	Prop.
	10	38	3.2	9.6	658.3	658.1	1.6	1.0	659.9	659.1
Design	50	93	3.6	10.4	658.4	658.2	3.7	2.0	662.1	660.2
Base	100	129	3.6	10.4	658.4	658.2	4.2	2.7	662.6	660.9
Overtopping	50-500	93-219	3.6	-	658.4	-	3.7	-	662.1	-
Max. Calc.	500	219	4.4	12.0	658.6	658.4	4.4	4.0	663.0	662.4
	1-5	1-5			1-	2				

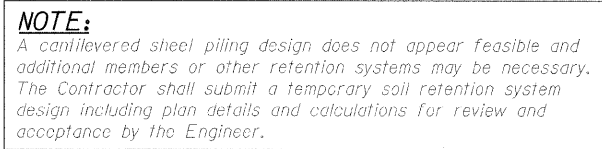
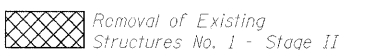
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GENERAL PLAN & ELEVATION
STRUCTURE NO. 049-0239

SHEET NO. SC1-1 OF SC1-5 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
330	128R-3	LAKE	518	352
CONTRACT NO. 60953				
ILLINOIS FED. AID PROJECT				

FILE NAME =	USER NAME =	DESIGNED =	REVISOR =
D160953-01-GPE.dgn		J.C.N./B.N.S.	9/2/2011 J.C.N.
		CHECKED =	REVISOR =
		B.N.S.	
		DRAWN =	REVISOR =
		F.M.	
		CHECKED =	REVISOR =
		B.N.S./J.C.N.	

 Removal of Existing Structures No. 1 - Stage I

***B-6.24 Comb. Conc. Curb & Gutter (Special)



- Porous Granular Embankment,
Subgrade - Elev. 650.00



Measured along Temporary 4'-0" 13'-0" 4'-0" 13'-0"



ELEVATION OF PANELS

CONSTRUCTION SEQUENCE

- *Do not disturb soil under the existing & proposed culverts during placement of Temporary Soil Retention System

VI

- STAGE CONSTRUCTION DETAILS
STRUCTURE NO. 049-0239
OUTLET NO. 14

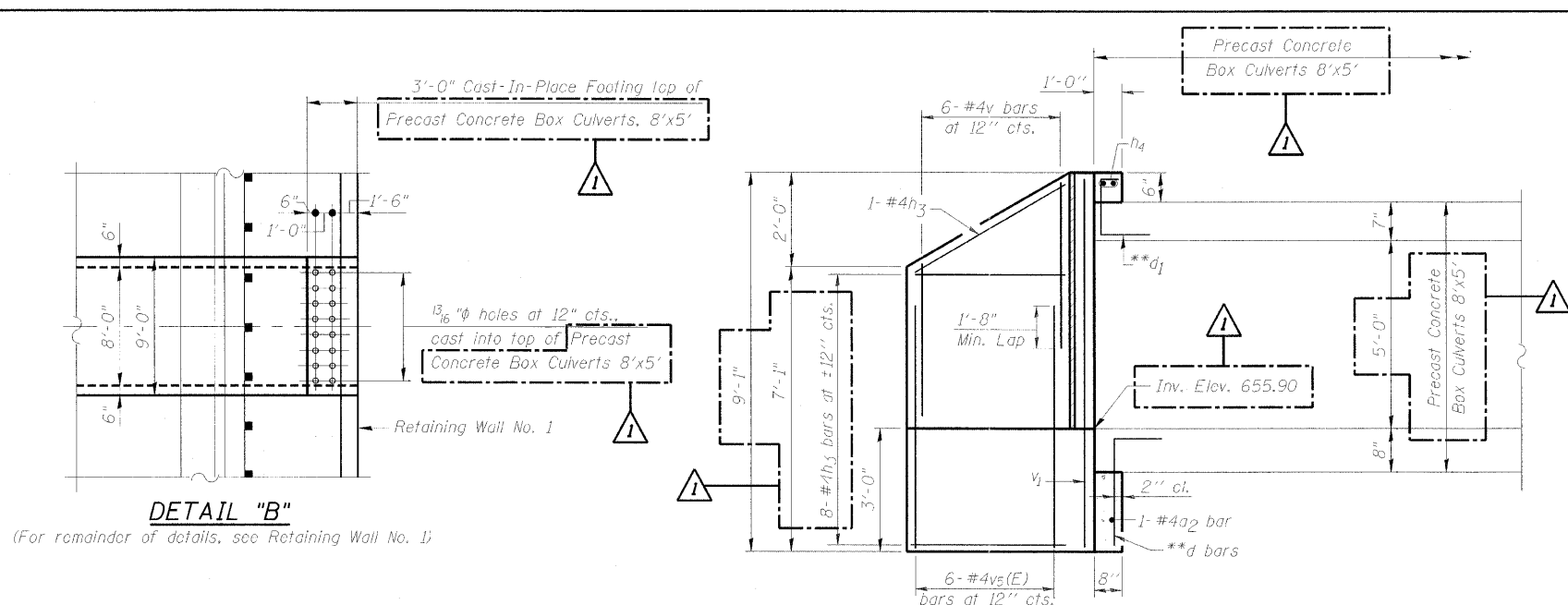


CHRISTIAN-ROGE &
ASSOCIATES, INC.

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

SHEET NO. SC1-2 OF SC1-5 SHEETS

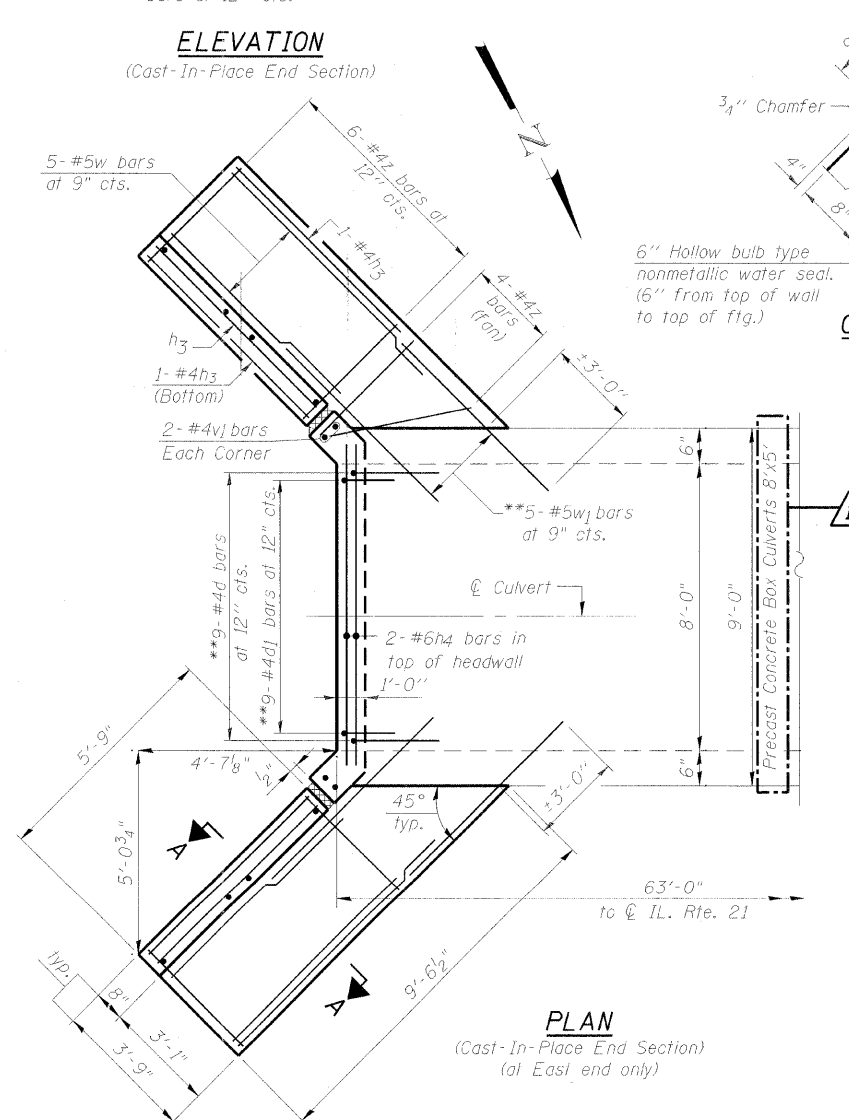
F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
330	128R-3	LAKE	518	353
CONTRACT NO. 60953				
ILLINOIS FED. AID PROJECT				



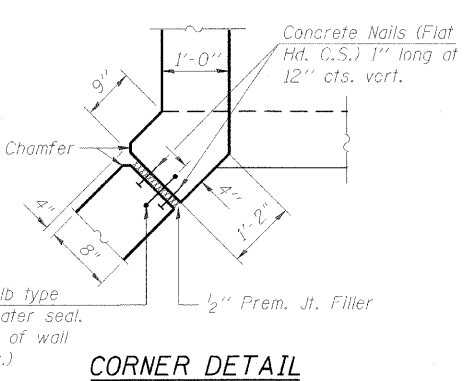
DETAIL "B"
(For remainder of details, see Retaining Wall No. 1)

ELEVATION
(Cast-In-Place End Section)

**Cast Reinf. Bars into Precast Concrete Box Culvert as shown. Cast included with Precast Concrete Box Culverts 8'x5'



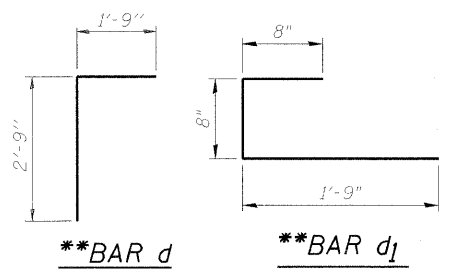
PLAN
(Cast-In-Place End Section)
(at East end only)



CORNER DETAIL

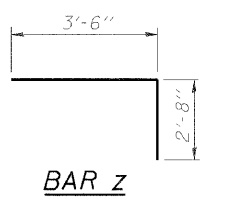
BILL OF MATERIAL
(FOR REINF. BARS CAST INTO
PRECAST CONCRETE BOX CULVERT)

Bar	No.	Size	Length	Shape
**d	9	#4	4'-6"	┐
**d1	9	#4	3'-1"	└
**w1	10	#5	8'-0"	—



****BAR d**

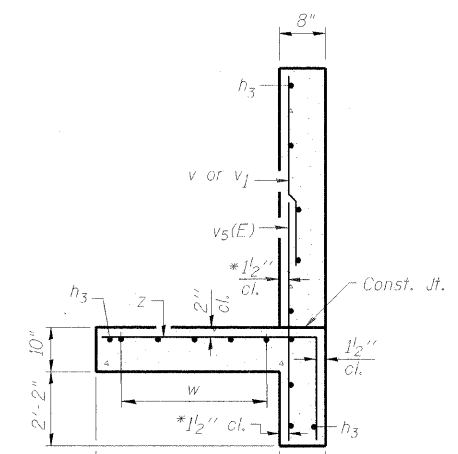
****BAR d1**



BAR z

BILL OF MATERIAL

Bar	No.	Size	Length	Shape
a2	1	#4	8'-8"	—
h3	22	#4	5'-5"	—
h4	2	#6	8'-8"	—
v	12	#4	3'-8"	—
v1	4	#6	8'-8"	—
v5(E)	12	#4	6'-8"	—
w	10	#5	6'-0"	—
z	20	#4	6'-2"	—
Reinforcement Bars		Pound	310	
Reinforcement Bars, Epoxy Coated		Pound	50	
Concrete Box Culverts		Cu. Yd.	5.0	



SECTION A-A
Max. Soil Pressure under
footing = 2,025 psf

**CAST-IN-PLACE END
SECTION DETAILS
STRUCTURE NO. 049-0239
OUTLET NO. 14**

CR & A CHRISTIAN-ROGE & ASSOCIATES, INC.

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188	LANDSCAPING PLAN - SITE A		

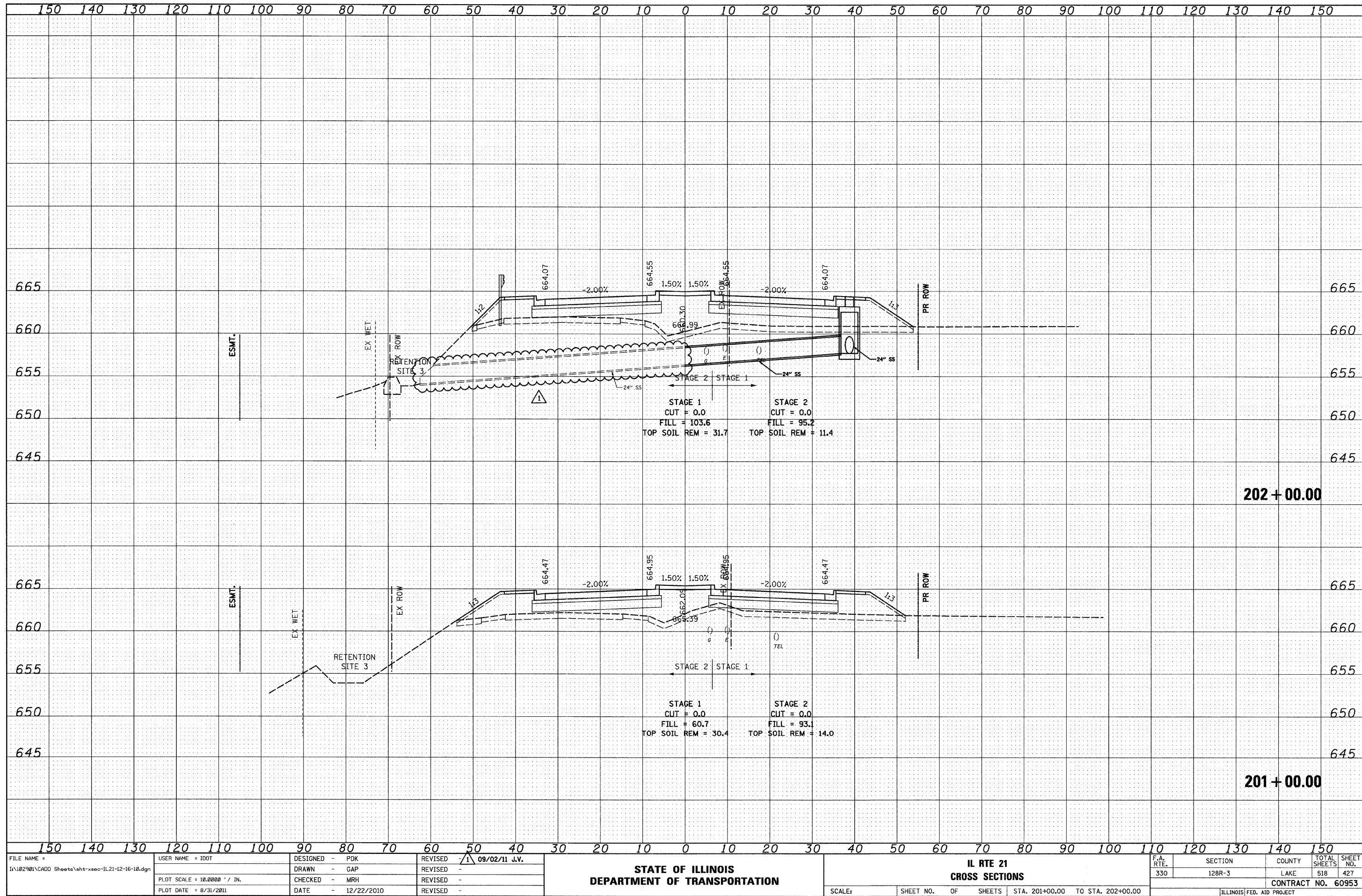
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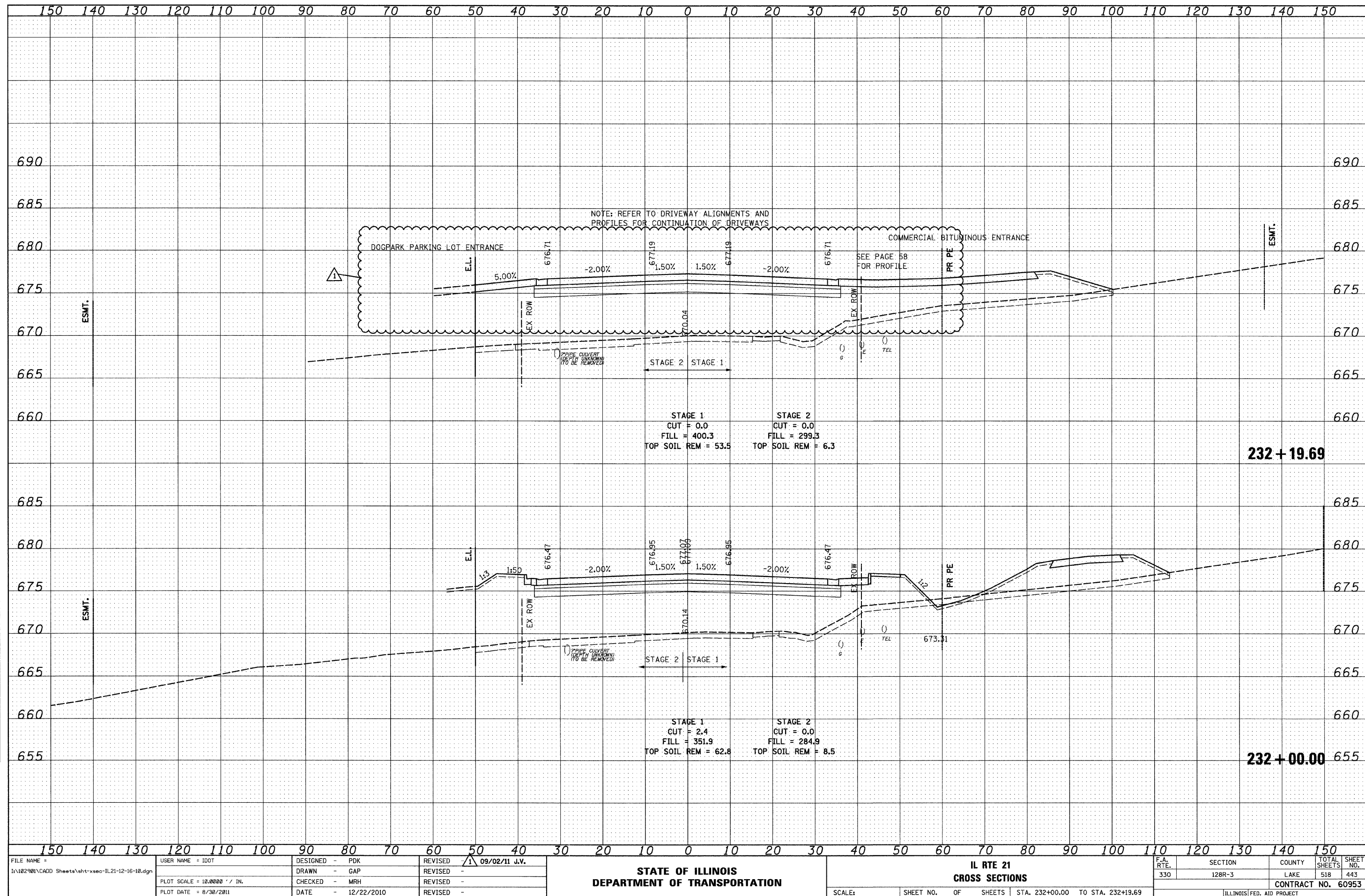
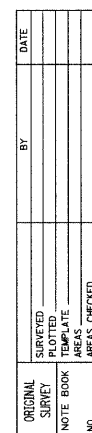
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	PLOT DATE = 9/8/2011	DATE - 12/17/10	REVISED -		FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT								
					SCALE:	SHEET NO.	OF	SHEETS	STA.	TO	STA.		

DATE	BY	FINISHED	DATE
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		PLOTTED	
		NOTE BOOK	
		AREAS	
		CHECKED	

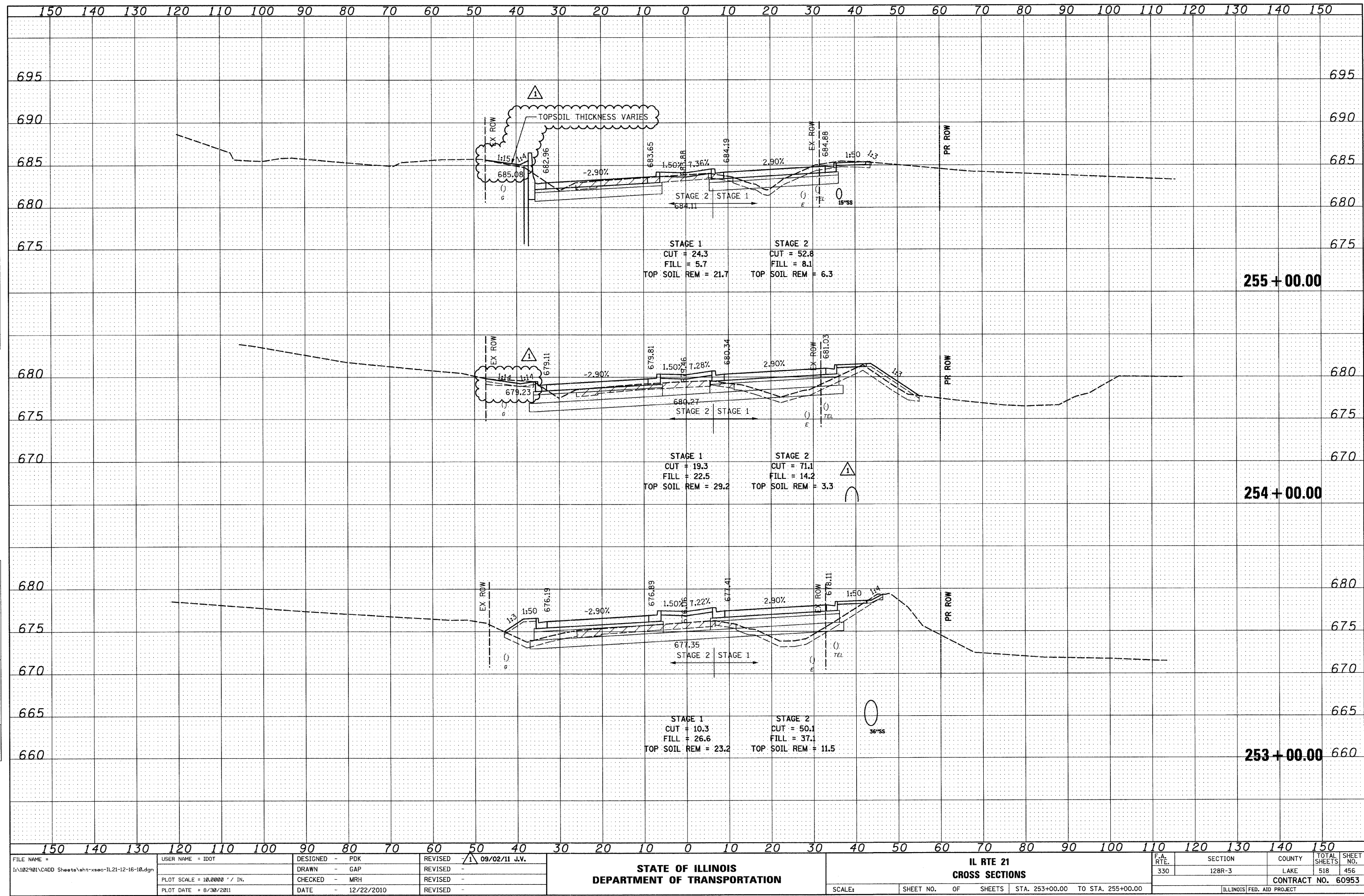
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		NOTE BOOK	
		AREAS	
		CHECKED	





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

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



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PLOT SCALE = 10,000' / IN.				CHECKED - MRH	REVISED -	SCALE:				SHEET NO.	OF	SHEETS	STA. 253+00.00	TO STA. 255+00.00	CONTRACT NO. 60953		
PLOT DATE = 8/30/2011				DATE - 12/22/2010	REVISED -									ILLINOIS FED. AID PROJECT			



FILE NAME =	USER NAME = IDOT	DESIGNED - PDK	REVISED - 09/02/11 J.V.	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	IL RTE 21 CROSS SECTIONS					F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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PLOT DATE = 8/30/2011		DATE = 12/22/2010	REVISED -											
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DATE	BY	DESIGNED	PLOTTED	TEMPLATE	AREAS CHECKED
FINAL SURVEY	NOTE BOOK				

DATE	BY	DESIGNED	PLOTTED	TEMPLATE	AREAS CHECKED
ORIGINAL SURVEY	NOTE BOOK				

