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SUMMARY OF QUANTITIES				ROADWAY#	LIGHTING#	TRAFFIC SIGNALS			NON-PARTICIPATING
CODE NO.	PAY ITEM	UNIT	QUANTITY	70% FED 30% LA	70% FED 30% LA	BUTTERFIELD RD &# COMMONWEALTH LN	INTERCONNECT#	EMERGENCY VEHICLE PREEMPTION	100% ELMHURST
				0004	0021	70% FED 30% LA	70% FED 30% LA	100% ELMHURST	100% ELMHURST
						0021		0021	0043
2010010	TREE REMOVAL (6 TO 15 UNITS DIAMETER)	UNIT	40	40					
2010020	TREE REMOVAL (OVER 15 UNITS DIAMETER)	UNIT	20	20					
2010100	TEMPORARY FENCE	FOOT	1,693	1,693					
2010110	TREE TRUNK PROTECTION	EACH	22	22					
2010120	TREE ROOT PRUNING	EACH	11	11					
2010130	TREE PRUNING (1 TO 10 INCH DIAMETER)	EACH	6	6					
2010135	TREE PRUNING (OVER 10 INCH DIAMETER)	EACH	5	5					
2020010	EARTH EXCAVATION	CU YD	1,914	1,914					
2020120	REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL	CU YD	1,030	1,030					
2040080	FURNISHED EXCAVATION	CU YD	209	209					
2080015	TRENCH BACKFILL	CU YD	119	119					
2100100	GEOTECHNICAL FABRIC FOR GROUND STABILIZATION	SQ YD	250	250					
2110165	TOPSOIL FURNISH AND PLACE, 4"	SQ YD	5,276	5,276					
2500020	SEEDING, CLASS 2A	ACRE	1.25	1.25					
2500032	SEEDING, CLASS 4A	ACRE	0.25	0.25					
2500040	NITROGEN FERTILIZER NUTRIENT	POUND	135	135					
2500050	PHOSPHORUS FERTILIZER NUTRIENT	POUND	135	135					
2500060	POTASSIUM FERTILIZER NUTRIENT	POUND	135	135					
2510063	EROSION CONTROL BLANKET	SQ YD	5,932	5,932					
2800025	TEMPORARY EROSION CONTROL SEEDING	POUND	150	150					
2800030	TEMPORARY DITCH CHECKS	FOOT	65	65					
2800040	PERIMETER EROSION BARRIER	FOOT	4,146	4,146					
2800050	INLET FILTERS	EACH	22	22					
2810010	STONE RIPRAP, CLASS A3	SQ YD	393	393					
2820020	FILTER FABRIC	SQ YD	602	602					
3030001	AGGREGATE SUBGRADE IMPROVEMENT	CU YD	83	83					
3030012	AGGREGATE SUBGRADE IMPROVEMENT 12"	SQ YD	2,889	2,889					
3530020	PORTLAND CEMENT CONCRETE BASE COURSE 7"	SQ YD	1,317	1,317					
3530050	PORTLAND CEMENT CONCRETE BASE COURSE 10"	SQ YD	936	936					
3530100	HIGH-EARLY-STRENGTH PORTLAND CEMENT CONCRETE BASE COURSE 7"	SQ YD	132	132					
3530130	HIGH-EARLY-STRENGTH PORTLAND CEMENT CONCRETE BASE COURSE 10"	SQ YD	94	94					
3580010	PREPARATION OF BASE	SQ YD	7,043	7,043					
4020100	AGGREGATE FOR TEMPORARY ACCESS	TON	116	116					
4060010	BITUMINOUS MATERIALS (PRIME COAT)	GALLON	470	470					
4060030	AGGREGATE (PRIME COAT)	TON	1	1					
4060040	MIXTURE FOR CRACKS, JOINTS, AND FLANGEWAYS	TON	30	30					

* STP (70% FED, 30% LA)
 CMAQ (80% FED, 20% LA)
 PER LOCAL AGENCY
 AGREEMENT

- * SPECIALTY ITEM
- ** CONSTRUCTION TYPE CODE = 0042

FILE PATH = G:\CUMBERLAND\BANKERS\Phase 2\Sheets\210008-SIT-SumQty.dgn



USER NAME = kelorenz	DESIGNED - TKS	REVISED - 12/12/12
FILE NAME = 010008-SIT-SumQty.dgn	DRAWN - TKS	REVISED -
PLOT SCALE = 50.000 ' / in.	CHECKED - JMG	REVISED -
PLOT DATE = 12/17/2012	DATE - 10/22/2012	REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

BUTTERFIELD ROAD AT COMMONWEALTH LANE
 SUMMARY OF QUANTITIES

SCALE: NOT TO SCALE SHEET NO. 3 OF 108 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3545	09-00170-00-CH	DUPAGE	108	3
FED. ROAD DIST. NO. 7 ILLINOIS FED. AID PROJECT			CONTRACT NO. 63742	

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CODE NO.	PAY ITEM	UNIT	QUANTITY	ROADWAY#		LIGHTING#		TRAFFIC SIGNALS			NON-PARTICIPATING
				70% FED 30% LA	70% FED 30% LA	70% FED 30% LA	70% FED 30% LA	BUTTERFIELD RD &# COMMONWEALTH LN	INTERCONNECT#	EMERGENCY VEHICLE PREEMPTION	
				0004	0021	0021	0021	100% ELMHURST	100% ELMHURST	0043	
40600625	LEVELING BINDER (MACHINE METHOD), N50	TON	176	176							
40600635	LEVELING BINDER (MACHINE METHOD), N70	TON	235	235							
40600982	HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT	SQ YD	84	84							
40600985	PORTLAND CEMENT CONCRETE SURFACE REMOVAL - BUTT JOINT	SQ YD	38	38							
40600990	TEMPORARY RAMP	SQ YD	142	142							
40603080	HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N50	TON	1,068	1,068							
40603335	HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N60	TON	566	566							
40603340	HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N70	TON	355	355							
42001300	PROTECTIVE COAT	SQ YD	2,986	2,986							
42400200	PORTLAND CEMENT CONCRETE SIDEWALK 5 INCH	SQ FT	710	710							
42400800	DETECTABLE WARNINGS	SQ FT	96	96							
44000100	PAVEMENT REMOVAL	SQ YD	331	331							
44000159	HOT-MIX ASPHALT SURFACE REMOVAL, 2 1/2"	SQ YD	4,275	4,275							
44000200	DRIVEWAY PAVEMENT REMOVAL	SQ YD	244	244							
44000500	COMBINATION CURB AND GUTTER REMOVAL	FOOT	2,060	2,060							
44000600	SIDEWALK REMOVAL	SQ FT	691	691							
44003100	MEDIAN REMOVAL	SQ FT	332	332							
44004250	PAVED SHOULDER REMOVAL	SQ YD	1,902	1,902							
44201737	CLASS D PATCHES, TYPE I, 8 INCH	SQ YD	200	200							
44201741	CLASS D PATCHES, TYPE II, 8 INCH	SQ YD	500	500							
44300200	STRIP REFLECTIVE CRACK CONTROL TREATMENT	FOOT	12,020	12,020							
48101600	AGGREGATE SHOULDERS, TYPE B 8"	SQ YD	23	23							
48203015	HOT-MIX ASPHALT SHOULDERS, 4 1/2"	SQ YD	119	119							
48203023	HOT-MIX ASPHALT SHOULDERS, 6 1/2"	SQ YD	1,221	1,221							
50105220	PIPE CULVERT REMOVAL	FOOT	21	21							
54213657	PRECAST REINFORCED CONCRETE FLARED END SECTIONS 12"	EACH	1	1							
54213660	PRECAST REINFORCED CONCRETE FLARED END SECTIONS 15"	EACH	1	1							
54213666	PRECAST REINFORCED CONCRETE FLARED END SECTIONS 21"	EACH	1	1							
550A0050	STORM SEWERS, CLASS A, TYPE 1 12"	FOOT	612	612							
550A0070	STORM SEWERS, CLASS A, TYPE 1 15"	FOOT	10	10							
550A0110	STORM SEWERS, CLASS A, TYPE 1 21"	FOOT	52	52							
550A0340	STORM SEWERS, CLASS A, TYPE 2 12"	FOOT	76	76							
550A0360	STORM SEWERS, CLASS A, TYPE 2 15"	FOOT	199	199							
55100500	STORM SEWER REMOVAL 12"	FOOT	13	13							
56106400	ADJUSTING WATER MAIN 8"	FOOT	20	20							
56106600	ADJUSTING WATER MAIN 12"	FOOT	20	20							

* STP (70% FED, 30% LA)
 CMAQ (80% FED, 20% LA)
 PER LOCAL AGENCY
 AGREEMENT

* SPECIALTY ITEM

** CONSTRUCTION TYPE CODE = 0042

FILE PATH: G:\CIBB\0808\Road\PHASE 2\Sheet\1712008-SHT-SumQty.dgn



USER NAME = katorenz	DESIGNED - TKS	REVISED - 12/12/12
FILE NAME = D:\X2008-SHT-SumQty.dgn	DRAWN - TKS	REVISED -
PLOT SCALE = 50.000 / in.	CHECKED - JMG	REVISED -
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STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

BUTTERFIELD ROAD AT COMMONWEALTH LANE
 SUMMARY OF QUANTITIES

SCALE: NOT TO SCALE SHEET NO. 4 OF 108 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3545	09-00170-00-CH	DUPAGE	108	4
FED. ROAD DIST. NO. 7 ILLINOIS FED. AID PROJECT			CONTRACT NO. 63742	

PLAN SURVEYED BY DATE
 NOTE BOOK NO. CHECKED BY
 NO. 10/22/2012

SUMMARY OF QUANTITIES				ROADWAY#	LIGHTING#	TRAFFIC SIGNALS			NON-PARTICIPATING
CODE NO.	PAY ITEM	UNIT	QUANTITY			BUTTERFIELD RD & COMMONWEALTH LN	INTERCONNECT#	EMERGENCY VEHICLE PREEMPTION	
				70% FED 30% LA	70% FED 30% LA	70% FED 30% LA	70% FED 30% LA	100% ELMHURST	100% ELMHURST
				0004	0021	0021	0021	0043	
56400500	FIRE HYDRANTS TO BE REMOVED	EACH	2						2
56400825	FIRE HYDRANT WITH AUXILIARY VALVE, VALVE BOX AND TEE	EACH	2						2
60107600	PIPE UNDERDRAINS 4"	FOOT	770	770					
60200105	CATCH BASINS, TYPE A, 4'-DIAMETER, TYPE I FRAME, OPEN LID	EACH	1	1					
60201330	CATCH BASINS, TYPE A, 4'-DIAMETER, TYPE 23 FRAME AND GRATE	EACH	2	2					
60208230	CATCH BASINS, TYPE C, TYPE 23 FRAME AND GRATE	EACH	9	9					
60218400	MANHOLES, TYPE A, 4'-DIAMETER, TYPE I FRAME, CLOSED LID	EACH	5	5					
60219000	MANHOLES, TYPE A, 4'-DIAMETER, TYPE 8 GRATE	EACH	1	1					
60219530	MANHOLES, TYPE A, 4'-DIAMETER, TYPE 23 FRAME AND GRATE	EACH	2	2					
60234200	INLETS, TYPE A, TYPE I FRAME, OPEN LID	EACH	1	1					
60236200	INLETS, TYPE A, TYPE 8 GRATE	EACH	3	3					
60261530	INLETS TO BE ADJUSTED WITH NEW TYPE 23 FRAME AND GRATE	EACH	2	2					
60265700	VALVE VAULTS TO BE ADJUSTED	EACH	3	3					
60500205	FILLING CATCH BASINS	EACH	2	2					
60600605	CONCRETE CURB, TYPE B	FOOT	27	27					
60603800	COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.12	FOOT	1,628	1,628					
60608600	COMBINATION CONCRETE CURB AND GUTTER, TYPE M-6.06	FOOT	83	83					
60618300	CONCRETE MEDIAN SURFACE, 4 INCH	SO FT	652	652					
60619600	CONCRETE MEDIAN, TYPE SB-6.12	SO FT	2,995	2,995					
60624600	CORRUGATED MEDIAN	SO FT	144	144					
63000001	STEEL PLATE BEAM GUARDRAIL, TYPE A, 6 FOOT POSTS	FOOT	188	188					
63000009	STEEL PLATE BEAM GUARDRAIL, TYPE B, 9 FOOT POSTS	FOOT	50	50					
63100167	TRAFFIC BARRIER TERMINAL, TYPE I (SPECIAL) TANGENT	EACH	1	1					
63200310	GUARDRAIL REMOVAL	FOOT	400	400					
66400105	CHAIN LINK FENCE, 4'	FOOT	304	304					
66400305	CHAIN LINK FENCE, 6'	FOOT	330	330					
66900200	NON-SPECIAL WASTE DISPOSAL	CU YD	860	860					
66900450	SPECIAL WASTE PLANS AND REPORTS	L SUM	1	1					
66900530	SOIL DISPOSAL ANALYSIS	EACH	3	3					
67000400	ENGINEER'S FIELD OFFICE, TYPE A	CAL MO	9	9					
67100100	MOBILIZATION	L SUM	1	1					
70300100	SHORT TERM PAVEMENT MARKING	FOOT	2,552	2,552					
70300210	TEMPORARY PAVEMENT MARKING LETTERS AND SYMBOLS	SO FT	218	218					
70300220	TEMPORARY PAVEMENT MARKING - LINE 4"	FOOT	29,727	29,727					
70300240	TEMPORARY PAVEMENT MARKING - LINE 6"	FOOT	1,089	1,089					
70300260	TEMPORARY PAVEMENT MARKING - LINE 12"	FOOT	3,336	3,336					

* STP (70% FED, 30% LA)
 CMAQ (80% FED, 20% LA)
 PER LOCAL AGENCY AGREEMENT

* SPECIALTY ITEM

** CONSTRUCTION TYPE CODE = 0042

FILE PATH = G:\C080\0808\Road\Phase 2\Sheets\020088-SHT-SumQty.dgn



USER NAME = kloranz	DESIGNED - TKS	REVISED - 10/22/12
FILE NAME = 01X008-SHT-SumQty.dgn	DRAWN - TKS	REVISED -
PLOT SCALE = 98/000 / 1 in.	CHECKED - JMG	REVISED -
PLOT DATE = 12/17/2012	DATE - 10/22/2012	REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

BUTTERFIELD ROAD AT COMMONWEALTH LANE
 SUMMARY OF QUANTITIES

SCALE: NOT TO SCALE SHEET NO. 5 OF 108 SHEETS

F.A.U. RTE. 3545	SECTION 09-0010-00-CH	COUNTY DUPAGE	TOTAL SHEETS 108	SHEET NO. 5
CONTRACT NO. 63742				
FED. ROAD DIST. NO. 7 ILLINOIS FED. AID PROJECT				

PLAN SURVEYED BY DATE
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SUMMARY OF QUANTITIES				ROADWAY#	LIGHTING#	TRAFFIC SIGNALS			NON-PARTICIPATING
CODE NO.	PAY ITEM	UNIT	QUANTITY			BUTTERFIELD RD & COMMONWEALTH LN	INTERCONNECT#	EMERGENCY VEHICLE PREEMPTION	
				70% FED 30% LA	70% FED 30% LA	70% FED 30% LA	70% FED 30% LA	100% ELMHURST	100% ELMHURST
				0004	0021		0021	0021	0043
70300280	TEMPORARY PAVEMENT MARKING - LINE 24"	FOOT	450	450					
70301000	WORK ZONE PAVEMENT MARKING REMOVAL	SQ FT	530	530					
70400100	TEMPORARY CONCRETE BARRIER	FOOT	550	550					
70600240	IMPACT ATTENUATORS, TEMPORARY (NON- REDIRECTIVE), TEST LEVEL 2	EACH	1	1					
72000100	SIGN PANEL - TYPE 1	SQ FT	104	74		30			
72000200	SIGN PANEL - TYPE 2	SQ FT	55			55			
72400100	REMOVE SIGN PANEL ASSEMBLY - TYPE A	EACH	2	2					
72400500	RELOCATE SIGN PANEL ASSEMBLY - TYPE A	EACH	17	17					
72400600	RELOCATE SIGN PANEL ASSEMBLY - TYPE B	EACH	1	1					
72900100	METAL POST - TYPE A	FOOT	153	153					
72900200	METAL POST - TYPE B	FOOT	184	184					
78000100	THERMOPLASTIC PAVEMENT MARKING - LETTERS AND SYMBOLS	SQ FT	146	146					
78000200	THERMOPLASTIC PAVEMENT MARKING - LINE 4"	FOOT	2,075	2,075					
78000400	THERMOPLASTIC PAVEMENT MARKING - LINE 6"	FOOT	909	909					
78000500	THERMOPLASTIC PAVEMENT MARKING - LINE 8"	FOOT	101	101					
78000600	THERMOPLASTIC PAVEMENT MARKING - LINE 12"	FOOT	530	530					
78000650	THERMOPLASTIC PAVEMENT MARKING - LINE 24"	FOOT	88	88					
78005100	EPOXY PAVEMENT MARKING - LETTERS AND SYMBOLS	SQ FT	307	307					
78005110	EPOXY PAVEMENT MARKING - LINE 4"	FOOT	4,428	4,428					
78005130	EPOXY PAVEMENT MARKING - LINE 6"	FOOT	956	956					
78005150	EPOXY PAVEMENT MARKING - LINE 12"	FOOT	325	325					
78005180	EPOXY PAVEMENT MARKING - LINE 24"	FOOT	55	55					
78008210	POLYUREA PAVEMENT MARKING TYPE I - LINE 4"	FOOT	59	59					
78100100	RAISED REFLECTIVE PAVEMENT MARKER	EACH	66	66					
78100105	RAISED REFLECTIVE PAVEMENT MARKER (BRIDGE)	EACH	2	2					
78200410	GUARDRAIL MARKERS, TYPE A	EACH	21	21					
78300100	PAVEMENT MARKING REMOVAL	SQ FT	742	742					
78300200	RAISED REFLECTIVE PAVEMENT MARKER REMOVAL	EACH	68	68					
80400100	ELECTRIC SERVICE INSTALLATION	EACH	1		1				
80400200	ELECTRIC UTILITY SERVICE CONNECTION	L SUM	1		1				
80500020	SERVICE INSTALLATION - POLE MOUNTED	EACH	1			1			
81028200	UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA.	FOOT	1,105			705	400		
81028210	UNDERGROUND CONDUIT, GALVANIZED STEEL, 2 1/2" DIA.	FOOT	84		10	74			
81028220	UNDERGROUND CONDUIT, GALVANIZED STEEL, 3" DIA.	FOOT	717		600	117			
81028240	UNDERGROUND CONDUIT, GALVANIZED STEEL, 4" DIA.	FOOT	405			405			
81400100	HANDHOLE	EACH	4			4			

STP (70% FED, 30% LA)
 CMAQ (80% FED, 20% LA)
 PER LOCAL AGENCY
 AGREEMENT

* SPECIALTY ITEM
 ** CONSTRUCTION TYPE CODE = 0042

FILE PATH: G:\CADD\BIDDING\PHASE 2\Sheet\01-00100-SHT-SumQty.dgn



USER NAME = kalorenz	DESIGNED - TKS	REVISED - 12/12/12
FILE NAME = D:\2008-SHT-SumQty.dgn	DRAWN - TKS	REVISED -
PLT SCALE = 50.000 / 1"	CHECKED - JMG	REVISED -
PLT DATE = 12/17/2012	DATE - 10/22/2012	REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

BUTTERFIELD ROAD AT COMMONWEALTH LANE
 SUMMARY OF QUANTITIES

SCALE: NOT TO SCALE SHEET NO. 6 OF 108 SHEETS

F.A.U. RTE. 3545	SECTION 09-00170-00-CH	COUNTY DUPAGE	TOTAL SHEETS 108	SHEET NO. 6
CONTRACT NO. 63742				
FED. ROAD DIST. NO. 7 ILLINOIS FED. AID PROJECT				

DATE _____ BY _____
 PLAN _____
 NOTE BOOK _____
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 ADJUSTMENT CHECKED _____
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 PAID FILE NAME _____

SUMMARY OF QUANTITIES				ROADWAY#	LIGHTING#	TRAFFIC SIGNALS			NON-PARTICIPATING
CODE NO.	PAY ITEM	UNIT	QUANTITY	70% FED 30% LA	70% FED 30% LA	BUTTERFIELD RD &# COMMONWEALTH LN	INTERCONNECT#	EMERGENCY VEHICLE PREEMPTION	100% ELMHURST
				0004	0021	70% FED 30% LA	70% FED 30% LA	100% ELMHURST	100% ELMHURST
							0021	0021	0043
81400200	HEAVY-DUTY HANDHOLE	EACH	5			5			
81400300	DOUBLE HANDHOLE	EACH	2			2			
81603100	UNIT DUCT, 600V, 4-1C NO.6, 1/C NO.6 GROUND, (XLP-TYPE USE), 1 1/4" DIA. POLYETHYLENE	FOOT	2,450		2,450				
81702400	ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 3-1/C NO. 2	FOOT	60		60				
81800240	AERIAL CABLE, 2-1/C NO. 8 WITH MESSENGER WIRE	FOOT	375		375				
82102250	LUMINAIRE, SODIUM VAPOR, HORIZONTAL MOUNT, 250 WATT	EACH	16		16				
82500350	LIGHTING CONTROLLER, BASE MOUNTED, 240VOLT, 100AMP	EACH	1		1				
83008500	LIGHT POLE, ALUMINUM, 40 FT. M.H., 12 FT. MAST ARM	EACH	12		12				
83600200	LIGHT POLE FOUNDATION, 24" DIAMETER	FOOT	120		120				
83800205	BREAKAWAY DEVICE, TRANSFORMER BASE, 15 INCH BOLT CIRCLE	EACH	12		12				
84200500	REMOVAL OF LIGHTING UNIT, SALVAGE	EACH	7		7				
84400105	RELOCATE EXISTING LIGHTING UNIT	EACH	1		1				
84500110	REMOVAL OF LIGHTING CONTROLLER	EACH	1		1				
84500130	REMOVAL OF LIGHTING CONTROLLER FOUNDATION	EACH	1		1				
85000200	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1				1		
85100500	PAINT NEW TRAFFIC SIGNAL POST	EACH	3						3
85100800	PAINT NEW COMBINATION MAST ARM AND POLE, UNDER 40 FOOT	EACH	1						1
85100901	PAINT NEW COMBINATION MAST ARM AND POLE, 40 FOOT AND OVER	EACH	3						3
86400100	TRANSCEIVER - FIBER OPTIC	EACH	1				1		
87300925	ELECTRIC CABLE IN CONDUIT, TRACER, NO. 14 1C	FOOT	1,281				1,281		
87301215	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C	FOOT	530			530			
87301225	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	1,362			1,362			
87301245	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	FOOT	2,812			2,812			
87301255	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C	FOOT	853			853			
87301305	ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1 PAIR	FOOT	2,383			2,383			
87301900	ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C	FOOT	556			556			
87501000	TRAFFIC SIGNAL POST, 14 FT.	EACH	1			1			
87501200	TRAFFIC SIGNAL POST, 16 FT.	EACH	2			2			
87702910	STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 36 FT.	EACH	1			1			
87702960	STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 46 FT.	EACH	1			1			
87702980	STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 50 FT.	EACH	1			1			
87703020	STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 58 FT.	EACH	1			1			
87800100	CONCRETE FOUNDATION, TYPE A	FOOT	12			12			
87800150	CONCRETE FOUNDATION, TYPE C	FOOT	4			4			
87800400	CONCRETE FOUNDATION, TYPE E 30-INCH DIAMETER	FOOT	10			10			
87800415	CONCRETE FOUNDATION, TYPE E 36-INCH DIAMETER	FOOT	28			28			

STP (70% FED, 30% LA)
 CMAQ (80% FED, 20% LA)
 PER LOCAL AGENCY
 AGREEMENT

- SPECIALTY ITEM
- CONSTRUCTION TYPE CODE = 0042

FILE PATH: G:\CHG\0908\Road\SHISE 2\Sheet\21\Sheet\21\0000-SHT-SumQty.dgn



USER NAME = ka@arans	DESIGNED - TKS	REVISED - 12/12/12
FILE NAME = 01X0028-SHT-SumQty.dgn	DRAWN - TKS	REVISED -
PLOT SCALE = 5/8"=1' / in.	CHECKED - JMG	REVISED -
PLOT DATE = 12/17/2012	DATE - 10/22/2012	REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

BUTTERFIELD ROAD AT COMMONWEALTH LANE
 SUMMARY OF QUANTITIES

SCALE: NOT TO SCALE SHEET NO. 7 OF 108 SHEETS

F.A.U. RTE: 3545	SECTION 09-00170-00-CH	COUNTY DUPAGE	TOTAL SHEETS 108	SHEET NO. 7
CONTRACT NO. 63742			FED. ROAD DIST. NO. 7 ILLINOIS FED. AID PROJECT	

PLAN SURVEYED BY DATE
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 CADD FILE NAME

SUMMARY OF QUANTITIES				ROADWAY#	LIGHTING#	TRAFFIC SIGNALS			NON-PARTICIPATING	
CODE NO.	PAY ITEM	UNIT	QUANTITY			BUTTERFIELD RD & COMMONWEALTH LN	INTERCONNECT#	EMERGENCY VEHICLE PREEMPTION	100% ELMHURST	100% ELMHURST
				70% FED 30% LA 0004	70% FED 30% LA 0021	70% FED 30% LA 0021	70% FED 30% LA 0021	100% ELMHURST 0021	100% ELMHURST 0043	
87800420	CONCRETE FOUNDATION, TYPE E 42-INCH DIAMETER	FOOT	21			21				
88030020	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST-ARM MOUNTED	EACH	10			10				
88030110	SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST-ARM MOUNTED	EACH	2			2				
88030210	SIGNAL HEAD, LED, 2-FACE, 3-SECTION, BRACKET MOUNTED	EACH	2			2				
88030240	SIGNAL HEAD, LED, 2-FACE, 1-3 SECTION, 1-5 SECTION, BRACKET MOUNTED	EACH	2			2				
88102717	PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER	EACH	2			2				
88102747	PEDESTRIAN SIGNAL HEAD, LED, 2-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER	EACH	1			1				
88200210	TRAFFIC SIGNAL BACKPLATE, LOUVERED, ALUMINUM	EACH	12			12				
88500100	INDUCTIVE LOOP DETECTOR	EACH	12			12				
88600100	DETECTOR LOOP, TYPE I	FOOT	851			851				
88700200	LIGHT DETECTOR	EACH	3					3		
88700300	LIGHT DETECTOR AMPLIFIER	EACH	1					1		
88800100	PEDESTRIAN PUSH-BUTTON	EACH	4			4				
89000100	TEMPORARY TRAFFIC SIGNAL INSTALLATION	EACH	1			1				
89502300	REMOVE ELECTRIC CABLE FROM CONDUIT	FOOT	1,495		200		1,295			
89502375	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1			1				
89502380	REMOVE EXISTING HANDHOLE	EACH	11			11				
89502385	REMOVE EXISTING CONCRETE FOUNDATION	EACH	10			10				
A2007120	TREE, QUERCUS RUBRA (RED OAK), 2-1/2" CALIPER, BALLED AND BURLAPPED	EACH	2	2						
D2001772	EVERGREEN, PICEA ABIES (NORWAY SPRUCE), 6' HEIGHT, BALLED AND BURLAPPED	EACH	3	3						
K0029634	WEED CONTROL, PRE-EMERGENT GRANULAR HERBICIDE	POUND	1	1						
X0324085	EMERGENCY VEHICLE PRIORITY SYSTEM LINE SENSOR CABLE, NO. 20 3/C	FOOT	807					807		
X2090210	POROUS GRANULAR BACKFILL, SPECIAL	CU YD	170	170						
X2110100	TOPSOIL FURNISH AND PLACE, SPECIAL	CU YD	515	515						
X4403800	MEDIAN SURFACE REMOVAL	SO FT	7,823	7,823						
X5420612	PIPE CULVERTS TO BE CLEANED 12"	FOOT	89	89						
X5420624	PIPE CULVERTS TO BE CLEANED 24"	FOOT	104	104						
X5537800	STORM SEWERS TO BE CLEANED 12"	FOOT	72	72						
X5537900	STORM SEWERS TO BE CLEANED 15"	FOOT	218	218						
X6020096	MANHOLES, TYPE A, 6'-DIAMETER, WITH 2 TYPE 1 FRAME, CLOSED LID, RESTRICTOR PLATE	EACH	1	1						
X6026050	SANITARY MANHOLES TO BE ADJUSTED	EACH	3	3						
X6030310	FRAMES AND LIDS TO BE ADJUSTED (SPECIAL)	EACH	8	8						
X6330725	STEEL PLATE BEAM GUARDRAIL (SHORT RADIUS)	FOOT	89	89						
X6640300	CHAIN LINK FENCE REMOVAL	FOOT	700	700						
X7010216	TRAFFIC CONTROL AND PROTECTION, (SPECIAL)	L SUM	1	1						
X7030030	WET REFLECTIVE TEMPORARY TAPE TYPE III, 4 INCH	FOOT	10,851	10,851						

STP (70% FED, 30% LA)
 CMAQ (80% FED, 20% LA)
 PER LOCAL AGENCY
 AGREEMENT

- SPECIALTY ITEM
- CONSTRUCTION TYPE CODE = 0042



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FILE NAME = 01X0208-SHT-SumQty.dgn	DRAWN - TKS	REVISED -
PLOT SCALE = 500.000 / 1 in.	CHECKED - JMG	REVISED -
PLOT DATE = 12/17/2012	DATE - 10/22/2012	REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

BUTTERFIELD ROAD AT COMMONWEALTH LANE
 SUMMARY OF QUANTITIES

SCALE: NOT TO SCALE SHEET NO. 8 OF 108 SHEETS

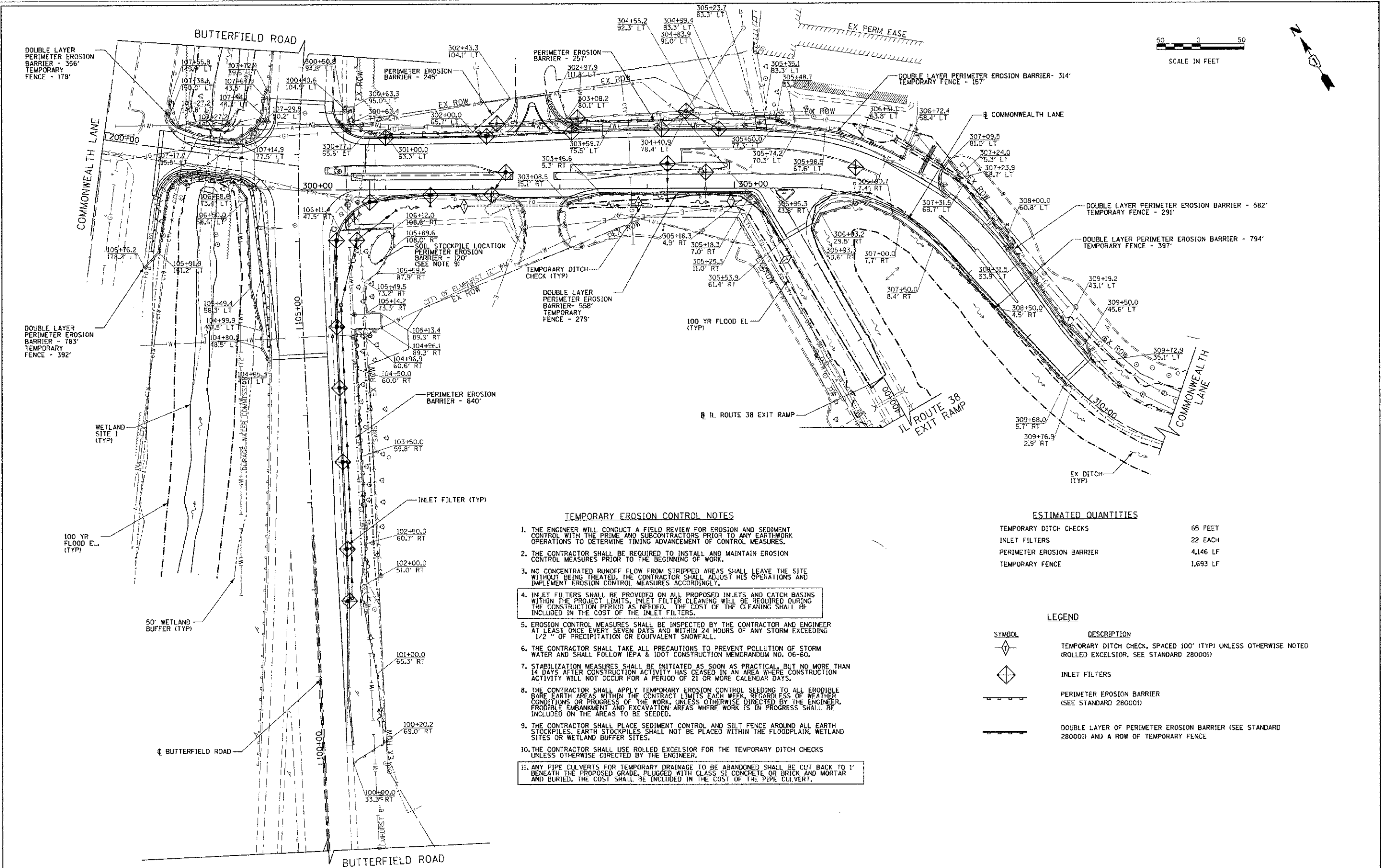
F.A.U. RTE. 3545	SECTION 09-00170-00-CH	COUNTY DJPAGE	TOTAL SHEETS 108	SHEET NO. 8
FED. ROAD DIST. NO. 7 ILLINOIS FED. AID PROJECT			CONTRACT NO. 63742	

FILE PATH = G:\788\B085\FoodPhase_2\Sheet\01X0208-SHT-SumQty.dgn



DATE	BY
PLAN	NOTED
NOTE BOOK	ALIGNMENT CHECKED
	FIELD FILE NAME

DATE	BY
PROFILE	NOTED
NOTE BOOK	GRADES CHECKED
	FIELD FILE NAME



- TEMPORARY EROSION CONTROL NOTES**
1. THE ENGINEER WILL CONDUCT A FIELD REVIEW FOR EROSION AND SEDIMENT CONTROL WITH THE PRIME AND SUBCONTRACTORS PRIOR TO ANY EARTHWORK OPERATIONS TO DETERMINE TIMING ADVANCEMENT OF CONTROL MEASURES.
 2. THE CONTRACTOR SHALL BE REQUIRED TO INSTALL AND MAINTAIN EROSION CONTROL MEASURES PRIOR TO THE BEGINNING OF WORK.
 3. NO CONCENTRATED RUNOFF FLOW FROM STRIPPED AREAS SHALL LEAVE THE SITE WITHOUT BEING TREATED. THE CONTRACTOR SHALL ADJUST HIS OPERATIONS AND IMPLEMENT EROSION CONTROL MEASURES ACCORDINGLY.
 4. INLET FILTERS SHALL BE PROVIDED ON ALL PROPOSED INLETS AND CATCH BASINS WITHIN THE PROJECT LIMITS. INLET FILTER CLEANING WILL BE REQUIRED DURING THE CONSTRUCTION PERIOD AS NEEDED. THE COST OF THE CLEANING SHALL BE INCLUDED IN THE COST OF THE INLET FILTERS.
 5. EROSION CONTROL MEASURES SHALL BE INSPECTED BY THE CONTRACTOR AND ENGINEER AT LEAST ONCE EVERY SEVEN DAYS AND WITHIN 24 HOURS OF ANY STORM EXCEEDING 1/2" OF PRECIPITATION OR EQUIVALENT SNOWFALL.
 6. THE CONTRACTOR SHALL TAKE ALL PRECAUTIONS TO PREVENT POLLUTION OF STORM WATER AND SHALL FOLLOW IEPA & IDOT CONSTRUCTION MEMORANDUM NO. 06-60.
 7. STABILIZATION MEASURES SHALL BE INITIATED AS SOON AS PRACTICAL, BUT NO MORE THAN 14 DAYS AFTER CONSTRUCTION ACTIVITY HAS CEASED IN AN AREA WHERE CONSTRUCTION ACTIVITY WILL NOT OCCUR FOR A PERIOD OF 21 OR MORE CALENDAR DAYS.
 8. THE CONTRACTOR SHALL APPLY TEMPORARY EROSION CONTROL SEEDING TO ALL ERODIBLE BARE EARTH AREAS WITHIN THE CONTRACT LIMITS EACH WEEK, REGARDLESS OF WEATHER CONDITIONS OR PROGRESS OF THE WORK, UNLESS OTHERWISE DIRECTED BY THE ENGINEER. ERODIBLE EMBANKMENT AND EXCAVATION AREAS WHERE WORK IS IN PROGRESS SHALL BE INCLUDED ON THE AREAS TO BE SEEDING.
 9. THE CONTRACTOR SHALL PLACE SEDIMENT CONTROL AND SILT FENCE AROUND ALL EARTH STOCKPILES. EARTH STOCKPILES SHALL NOT BE PLACED WITHIN THE FLOODPLAIN, WETLAND SITES OR WETLAND BUFFER SITES.
 10. THE CONTRACTOR SHALL USE ROLLED EXCELSIOR FOR THE TEMPORARY DITCH CHECKS UNLESS OTHERWISE DIRECTED BY THE ENGINEER.
 11. ANY PIPE CULVERTS FOR TEMPORARY DRAINAGE TO BE ABANDONED SHALL BE CUT BACK TO 1' BENEATH THE PROPOSED GRADE, PLUGGED WITH CLASS SI CONCRETE OR BRICK AND MORTAR AND BURIED. THE COST SHALL BE INCLUDED IN THE COST OF THE PIPE CULVERT.

ESTIMATED QUANTITIES

TEMPORARY DITCH CHECKS	65 FEET
INLET FILTERS	22 EACH
PERIMETER EROSION BARRIER	4,146 LF
TEMPORARY FENCE	1,693 LF

LEGEND

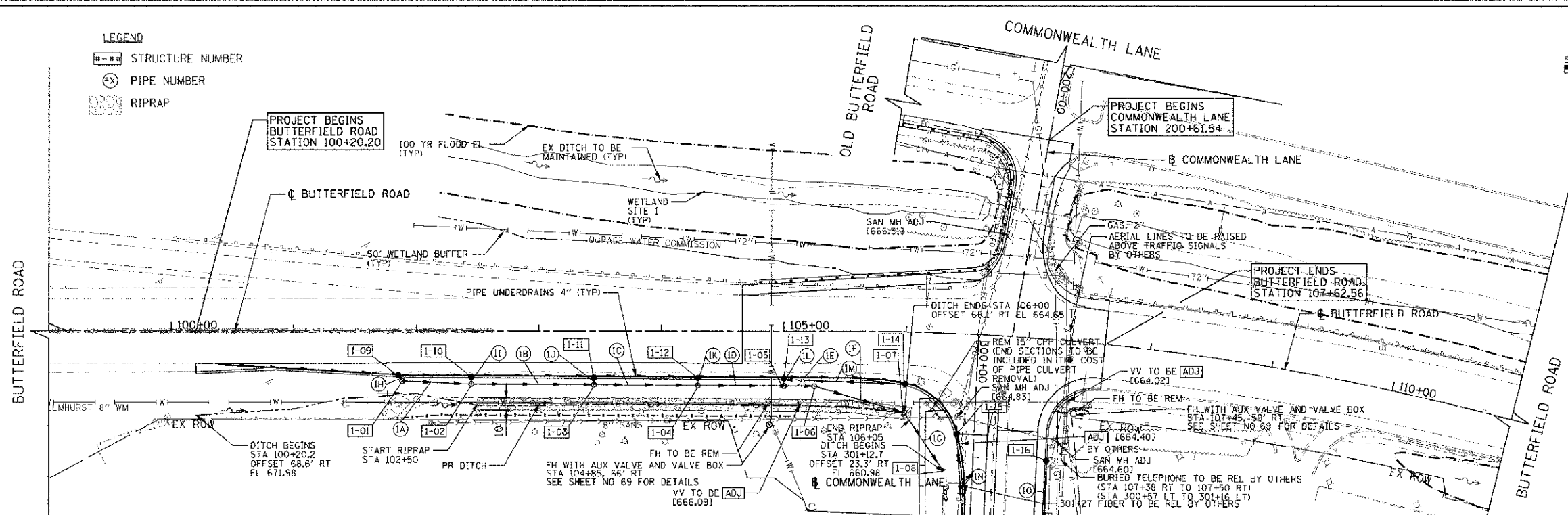
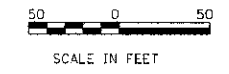
SYMBOL	DESCRIPTION
	TEMPORARY DITCH CHECK, SPACED 100' (TYP) UNLESS OTHERWISE NOTED (ROLLED EXCELSIOR, SEE STANDARD 280001)
	INLET FILTERS
	PERIMETER EROSION BARRIER (SEE STANDARD 280001)
	DOUBLE LAYER OF PERIMETER EROSION BARRIER (SEE STANDARD 280001) AND A ROW OF TEMPORARY FENCE

FILE NAME = G:\CHRB\0006\Road\PHASE 2\Sheet\CI\0006	USER NAME = kelorenz	DESIGNED TKS	REVISED - 12/18/12
PLOT SCALE = 58,0000 ft. / in.	DATE = 10/22/2012	CHECKED - JMG	REVISED -
PLOT DATE = 12/17/2012		DATE = 10/22/2012	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

BUTTERFIELD ROAD AT COMMONWEALTH LANE EROSION CONTROL PLAN		F.A.J. 3545	SECTION 09-00170-00-CH	COUNTY	TOTAL SHEETS 108	SHEET NO. 27
SCALE: 1"=50'	SHEET NO. 27 OF 108 SHEETS	STA. 300+00	TO STA. 311+00	CONTRACT NO. 63742		
FED. ROAD DIST. NO. 7 ILLINOIS FED. AID PROJECT						

LEGEND
 [---] STRUCTURE NUMBER
 (X) PIPE NUMBER
 [---] RIPRAP



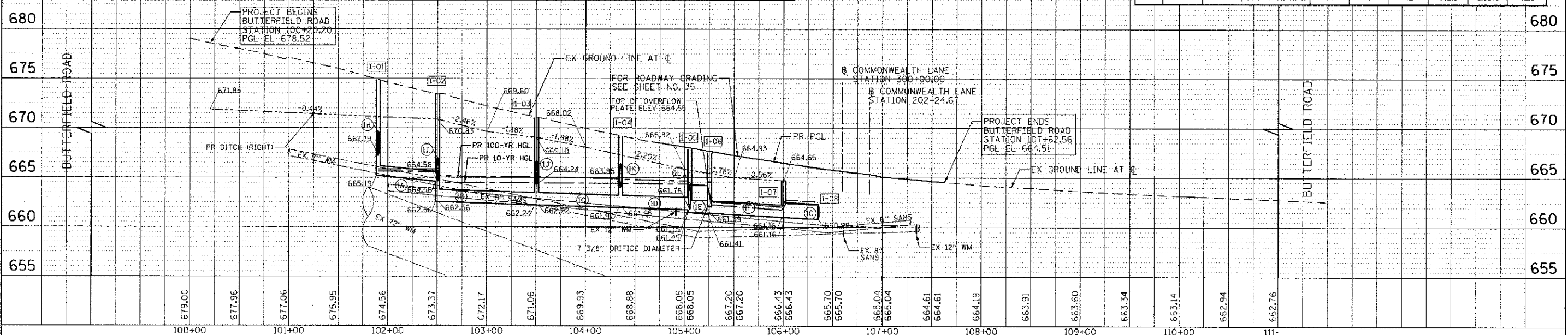
DRAINAGE NOTES:

1. OFFSETS AND TOP OF FRAME OR LID ELEVATIONS FOR STRUCTURES WHICH ARE LOCATED IN THE GUTTER ARE GIVEN AT THE EDGE OF PAVEMENT.
2. OFFSETS FOR STRUCTURES NOT LOCATED IN THE GUTTER ARE GIVEN TO THE CENTER OF THE STRUCTURE. TOP OF FRAME OR LID ELEVATIONS ARE GIVEN TO THE CENTER OF THE FRAME OR LID.
3. ANY EXISTING STORM SEWER TO BE ABANDONED SHALL BE PLUGGED WITH CLASS SI CONCRETE OR BRICK AND MORTAR AND THE COST SHALL BE INCLUDED IN THE COST OF THE PROPOSED STORM SEWER.
4. SEE SHEET 73 FOR MANHOLE WITH RESTRICTOR PLATE DETAIL.

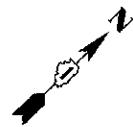
STR NO.	STATION	OFFSET	TYPE	FRAME & GRATE	RIM EL	INVERT ELEVATIONS								
						NORTH	NORTHEAST	EAST	SOUTHEAST	SOUTH	SOUTHWEST	WEST	NORTHWEST	
1-01	101+88.7	40.9' RT	MH, TYPE A, 4'-DIAMETER	TYPE 1 FRAME, CLOSED LID	674.35		665.19						667.19	
1-02	102+50.0	43.3' RT	MH, TYPE A, 4'-DIAMETER	TYPE 1 FRAME, CLOSED LID	673.13		662.56				664.56		664.56	
1-03	103+50.0	43.3' RT	MH, TYPE A, 4'-DIAMETER	TYPE 1 FRAME, CLOSED LID	670.84		662.22				662.24		664.22	
1-04	104+35.0	43.3' RT	MH, TYPE A, 4'-DIAMETER	TYPE 1 FRAME, CLOSED LID	668.99		661.95				661.97		663.95	
1-05	105+05.0	43.3' RT	MH, TYPE A, 4'-DIAMETER	TYPE 1 FRAME, CLOSED LID	667.85		661.45				661.75		661.75	
1-06	105+25.0	43.3' RT	MH, TYPE A, 6'-DIAMETER	2 TYPE 1 FRAME, CLOSED LID, RESTRICTOR PLATE	667.31		661.39				661.41		661.41	
1-07	106+00.0	66.5' RT	MH, TYPE A, 4'-DIAMETER	TYPE 8 GRATE	664.65			661.16			661.16			
1-08	301+12.7	23.8' RT	FRC FES 21"	NONE								660.98		
1-09	101+85.0	36.0' RT	CB, TYPE C	TYPE 23 FRAME AND GRATE	673.97				667.24					
1-10	102+50.0	36.6' RT	CB, TYPE A, 4'-DIAMETER	TYPE 23 FRAME AND GRATE	672.79				664.60					
1-11	103+50.0	37.1' RT	CB, TYPE C	TYPE 23 FRAME AND GRATE	670.49				664.27					
1-12	104+35.0	37.5' RT	CB, TYPE C	TYPE 23 FRAME AND GRATE	668.61				664.00					
1-13	105+05.0	37.9' RT	CB, TYPE A, 4'-DIAMETER	TYPE 23 FRAME AND GRATE	667.27		662.09		661.79					
1-14	106+00.0	42.5' RT	CB, TYPE C	TYPE 23 FRAME AND GRATE	665.58					663.04				
1-15	300+81.6	14.1' RT	CB, TYPE C	TYPE 23 FRAME AND GRATE	664.28				661.30					
1-16	301+00.0	59.0' LT	CB, TYPE C	TYPE 23 FRAME AND GRATE	664.39				662.08					

COMMONWEALTH LANE
 MATCH LINE STATION 301+50
 SEE SHEET NO. 29

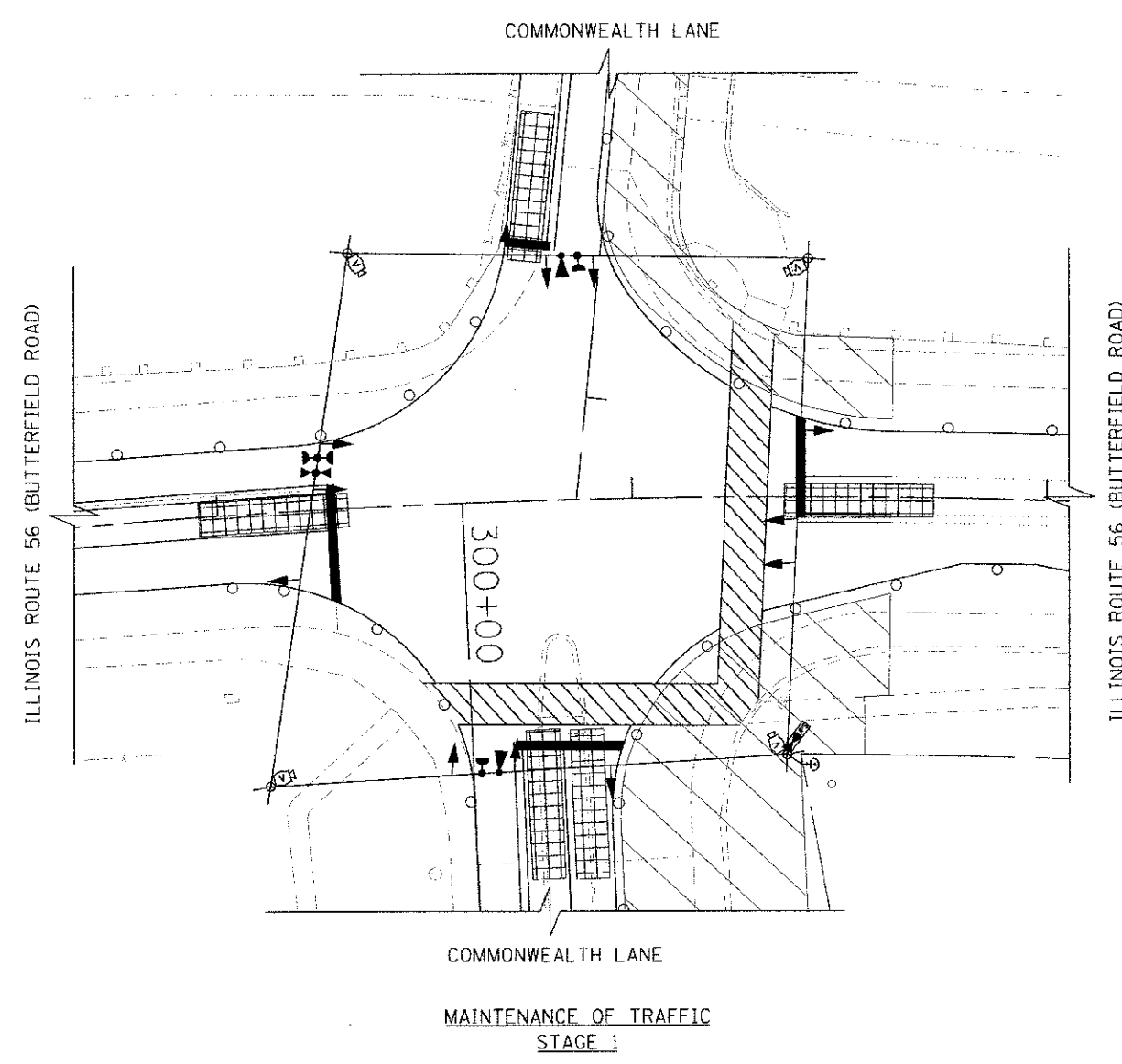
PIPE NO.	STRUCTURE FROM	STRUCTURE TO	DESCRIPTION	CLASS	TYPE	SIZE (IN)	LENGTH (FT)	SLOPE (%)	TBF (CU YD)
1A	1-01	1-02	STORM SEWERS	A	2	12	52.2	1.05%	0.0
1B	1-02	1-03	STORM SEWERS	A	2	15	96.0	0.32%	0.0
1C	1-03	1-04	STORM SEWERS	A	2	15	81.0	0.32%	0.0
1D	1-04	1-05	STORM SEWERS	WM REQ	2	15	66.0	0.32%	0.0
1E	1-05	1-06	STORM SEWERS	A	2	15	21.0	0.32%	0.0
1F	1-06	1-07	STORM SEWERS	WM REQ	2	15	72.5	0.32%	0.0
1G	1-07	1-08	STORM SEWERS	A	1	21	51.8	0.35%	0.0
1H	1-08	1-01	STORM SEWERS	A	2	12	5.0	1.00%	3.9
1I	1-10	1-02	STORM SEWERS	A	2	12	4.0	1.00%	4.0
1J	1-11	1-03	STORM SEWERS	A	2	12	5.0	1.00%	3.5
1K	1-12	1-04	STORM SEWERS	A	2	12	5.0	1.00%	2.4
1L	1-13	1-05	STORM SEWERS	A	2	12	4.0	1.00%	2.4
1M	1-14	1-13	STORM SEWERS	A	1	12	95.2	1.00%	30.3
1N	1-15	2-03	STORM SEWERS	A	1	12	65.9	0.50%	12.7
1O	1-16	2-08	STORM SEWERS	A	1	12	112.9	0.50%	12.0



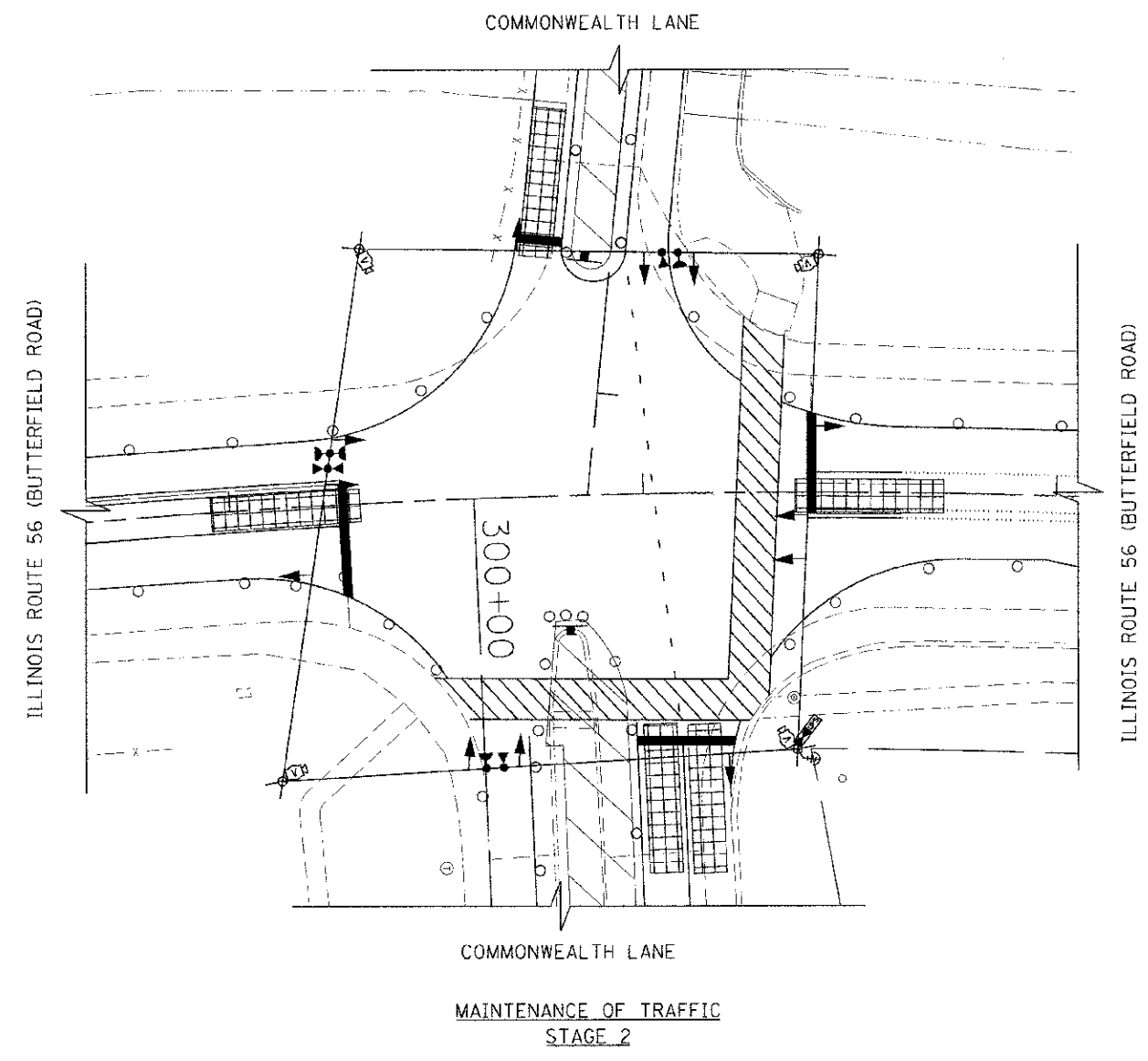
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SCALE IN FEET



THE CONTRACTOR SHALL BE RESPONSIBLE FOR PERFORMING ALL NECESSARY EQUIPMENT AND PHASING CHANGES TO THE INSTALLATION TO COVER THE DIFFERENT SIGNAL HEAD REQUIREMENTS AND SIGNAL PHASING. THE COST OF THIS WORK WILL BE INCLUDED IN THE COST OF TEMPORARY TRAFFIC SIGNAL INSTALLATION.



MAINTENANCE OF TRAFFIC
STAGE 1



MAINTENANCE OF TRAFFIC
STAGE 2

PLAN	DATE
NO. OF SHEETS	
NO. OF SHEETS CHECKED	
NO. OF SHEETS NOT CHECKED	
ADD FILE NAME	

PROF. FILE	BY	DATE
NO. OF SHEETS		
NO. OF SHEETS CHECKED		
NO. OF SHEETS NOT CHECKED		
ADD FILE NAME		

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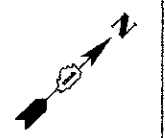
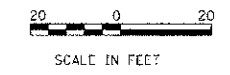


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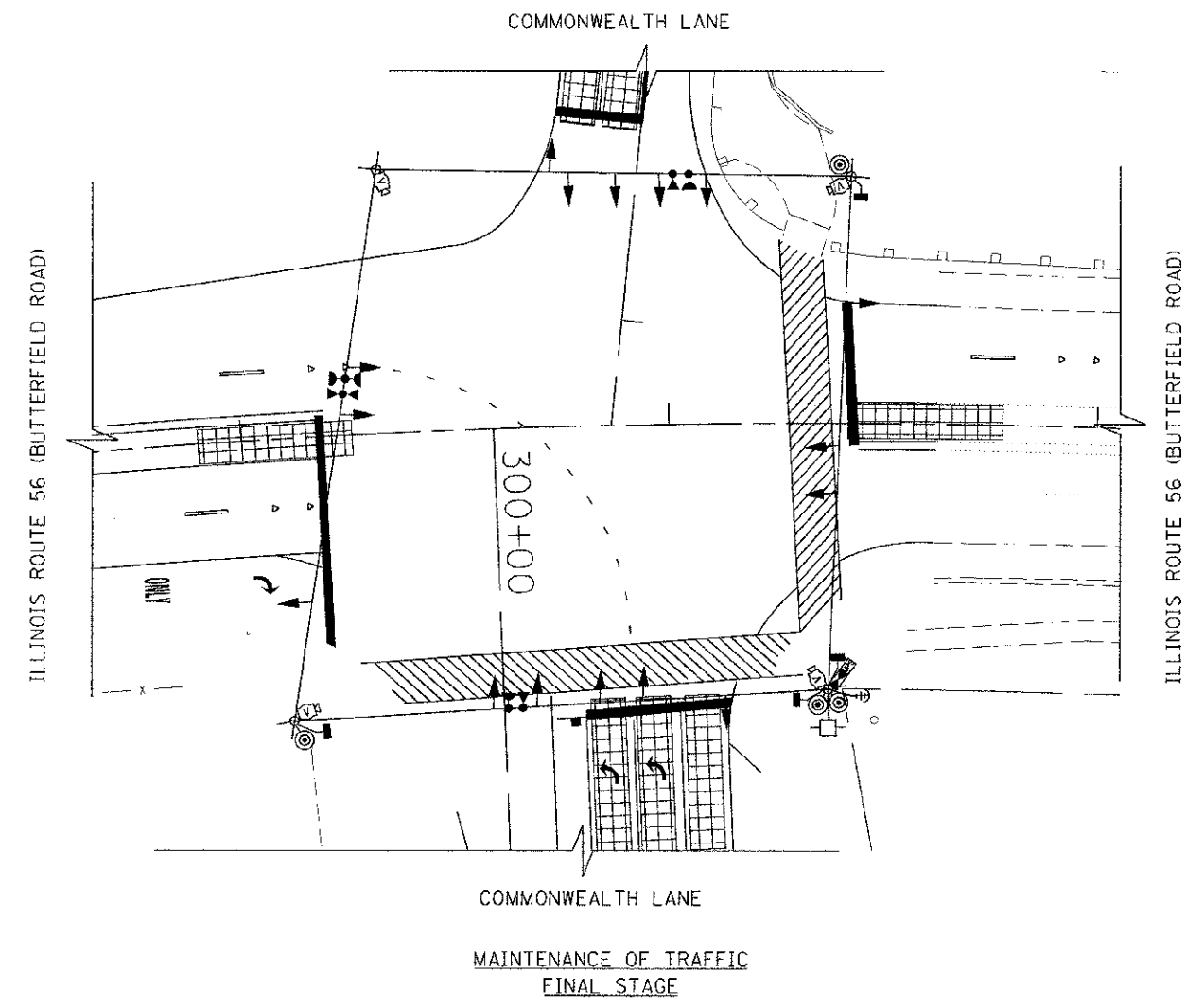
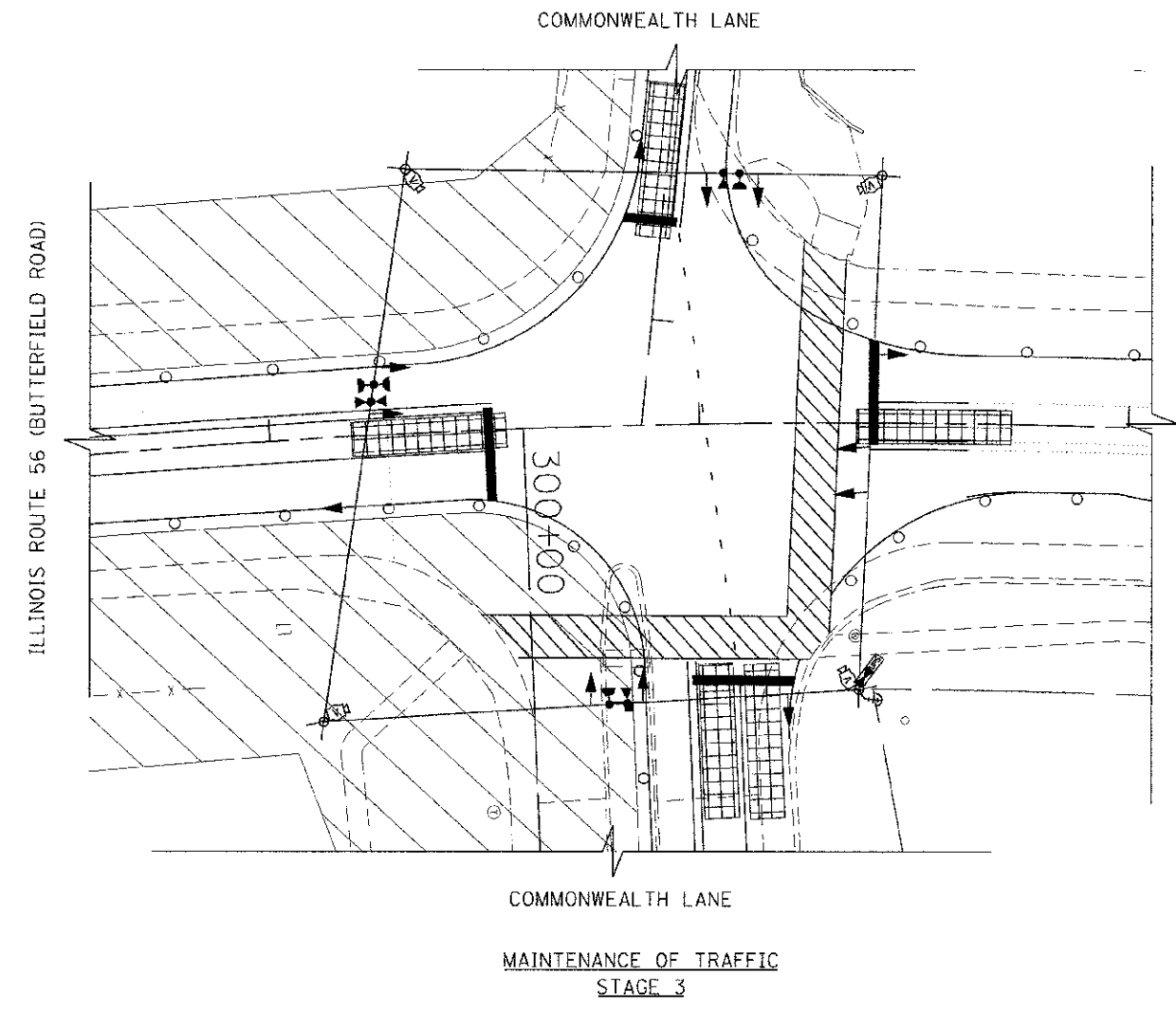
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ILLINOIS ROUTE 56 (BUTTERFIELD ROAD) AT COMMONWEALTH LANE TEMPORARY TRAFFIC SIGNAL M.O.T. STAGING PLAN (1 of 2)	
SCALE: 1"=20'	SHEET NO. 44 OF 108 SHEETS

F.A.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3545	00-00170-00-C4	DUPAGE	108	44
FED. ROAD DIST. NO. 7 ILLINOIS FED. AID PROJECT			CONTRACT NO. 63742	



THE CONTRACTOR SHALL BE RESPONSIBLE FOR PERFORMING ALL NECESSARY EQUIPMENT AND PHASING CHANGES TO THE INSTALLATION TO COVER THE DIFFERENT SIGNAL HEAD REQUIREMENTS AND SIGNAL PHASING. THE COST OF THIS WORK WILL BE INCLUDED IN THE COST OF TEMPORARY TRAFFIC SIGNAL INSTALLATION.



PLAN	SUPERVISOR	DATE
NOTE BOOK	ALIGNED	
NO.	REVISED	
	REVISED	
	REVISED	
	REVISED	
	REVISED	
	REVISED	
	REVISED	
	REVISED	

PROFILE	SUPERVISOR	DATE
NOTE BOOK	ALIGNED	
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	REVISED	
	REVISED	
	REVISED	
	REVISED	
	REVISED	
	REVISED	

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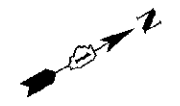
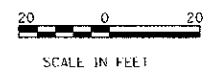
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ILLINOIS ROUTE 56 (BUTTERFIELD ROAD) AT COMMONWEALTH LANE
TEMPORARY TRAFFIC SIGNAL M.O.T. STAGING PLAN (2 of 2)

SCALE: 1"=20' SHEET NO. 45 OF 108 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3545	09-00170-00-CH	DUPAGE	106	45
FED. ROAD DIST. NO. 7 ILLINOIS FED. AID PROJECT			CONTRACT NO. 63742	

- IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY ALL DIMENSIONS AND CONDITIONS EXISTING IN THE FIELD PRIOR TO ORDERING MATERIALS AND BEGINNING CONSTRUCTION. THIS SHALL INCLUDE LOCATING THE MAST ARM FOUNDATIONS AND VERIFYING THE MAST ARM LENGTHS.
- THE EXACT LOCATION OF ALL UTILITIES SHALL BE FIELD VERIFIED BY THE CONTRACTOR BEFORE ORDERING ANY MATERIALS AND STARTING ANY WORK. FOR LOCATIONS OF UTILITIES, LOCALLY OWNED EQUIPMENT, LEASED ENFORCEMENT CAMERA SYSTEM FACILITIES AND IDOT UNDERGROUND FACILITIES, CONTACT THE LOCAL COUNTIES, MUNICIPALITIES AND IDOT FOR LOCATES. THE CONTRACTOR SHALL CALL "JULIE" AT (800) 892-0123 OR 811, IN THE CITY OF CHICAGO CONTACT BIGGER AT (312) 744-7000 FOR FIELD LOCATIONS OF BURIED UTILITIES (48 HOURS NOTIFICATION REQUIRED).
- THE CONTRACTOR SHALL CHECK THE PROPOSED TRAFFIC SIGNAL EQUIPMENT LOCATIONS FOR OVERHEAD UTILITY CONFLICTS. THE CONTRACTOR SHALL COORDINATE ANY CONFLICTS WITH THE UTILITY COMPANIES AND THE RESIDENT ENGINEER BEFORE ORDERING MATERIALS.
- THE CONTRACTOR SHALL COORDINATE CONSTRUCTION ACTIVITIES WITH UTILITY COMPANIES, LOCAL GOVERNMENT AGENCIES AND IDOT
- THE GENERAL CONTRACTOR IS REQUIRED TO HIRE AN ENVIRONMENTAL FIRM WITH AT LEAST FIVE (5) DOCUMENTED LEAKING UNDERGROUND STORAGE TANK CLEANUPS OR THAT IS PRE-QUALIFIED IN HAZARDOUS WASTE BY THE DEPARTMENT TO REMEDIATE THE SOIL CONTAMINATION AND MONITOR FOR WORKER PROTECTION.

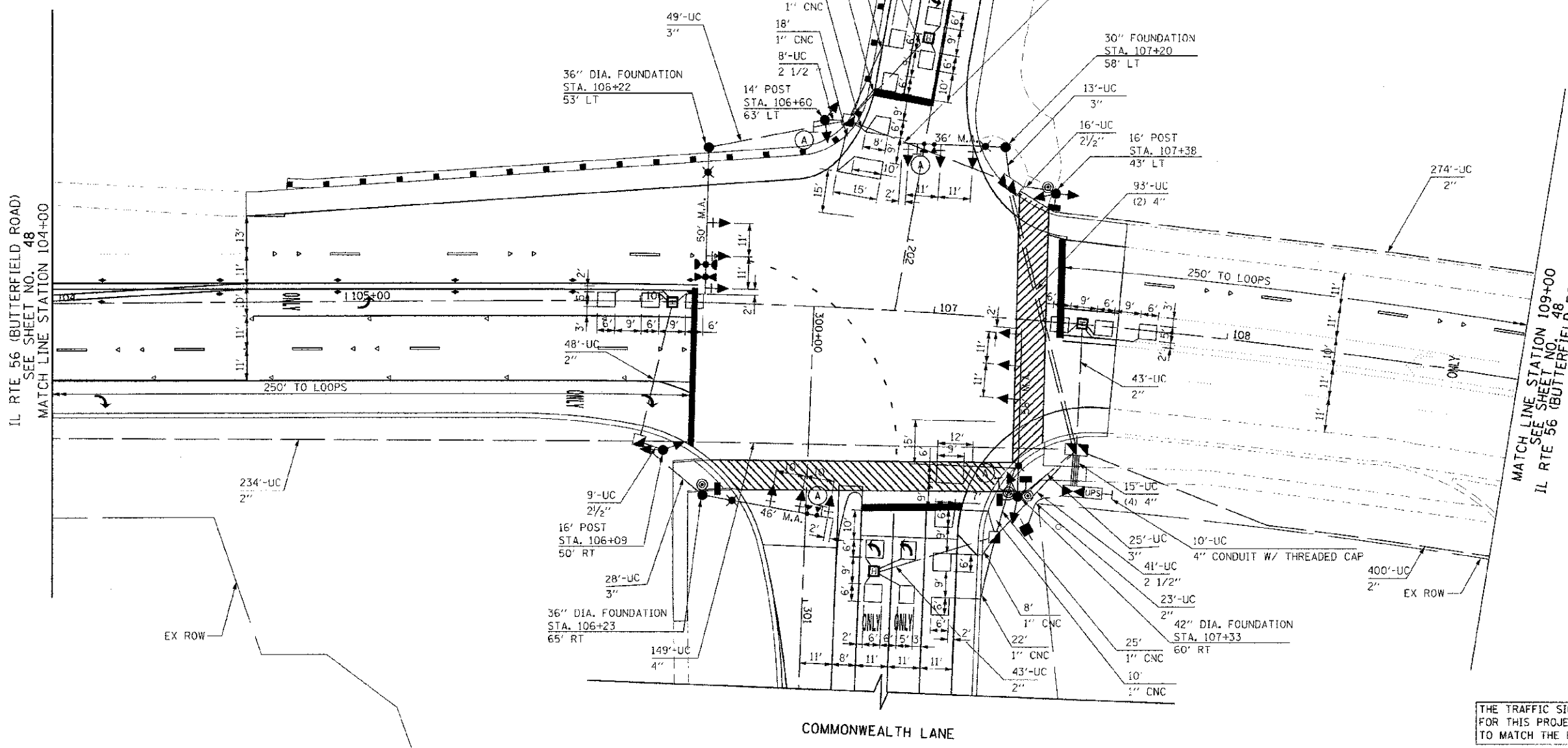


RESTORATION OF WORK AREA: RESTORATION OF THE TRAFFIC SIGNAL WORK AREA SHALL BE INCIDENTAL TO THE RELATED PAY ITEM SUCH AS FOUNDATION, CONDUIT, HANDHOLE, TRENCH AND BACKFILL, ETC., AND NO EXTRA COMPENSATION SHALL BE ALLOWED. ALL ROADWAY SURFACES SUCH AS SHOULDERS, MEDIANS, SIDEWALKS, PAVEMENT, ETC. SHALL 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.

LEFT ON GREEN ARROW ONLY
 R 10-5
 4 REQUIRED 30" X 36"
 SIGN PANEL TYPE 1
 (A)

IL RTE 56 (BUTTERFIELD ROAD)
 SEE SHEET NO. 48
 MATCH LINE STATION 104+00

MATCH LINE STATION 109+00
 SEE SHEET NO. 48
 IL RTE 56 (BUTTERFIELD ROAD)



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

DATE	
DESIGNED	JSL
CHECKED	JSL
PLANNED	
FILE NO.	

FILE PATH = G:\CHRB\BNSL\Road\PHASE 2\Sheet\020208-TS_Sheet1.dgn



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PLOT SCALE = 20/1000 1/2 in.	CHECKED = RPJ	REVISED =
PLOT DATE = 12/17/2012	DATE = 10/22/2012	REVISED =

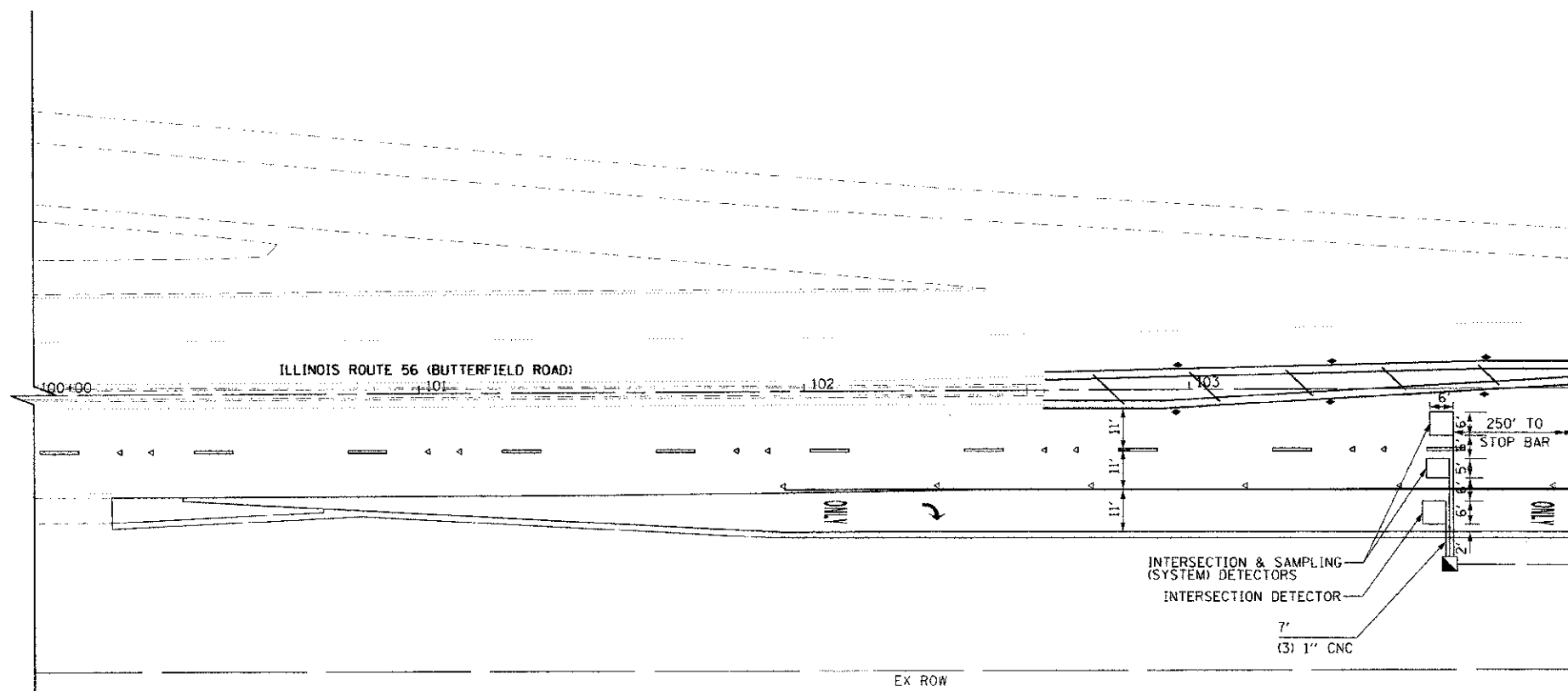
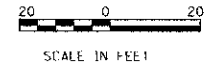
STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

ILLINOIS ROUTE 56 (BUTTERFIELD ROAD) AT COMMONWEALTH LANE
 PROPOSED TRAFFIC SIGNAL INSTALLATION PLAN (1 OF 2)

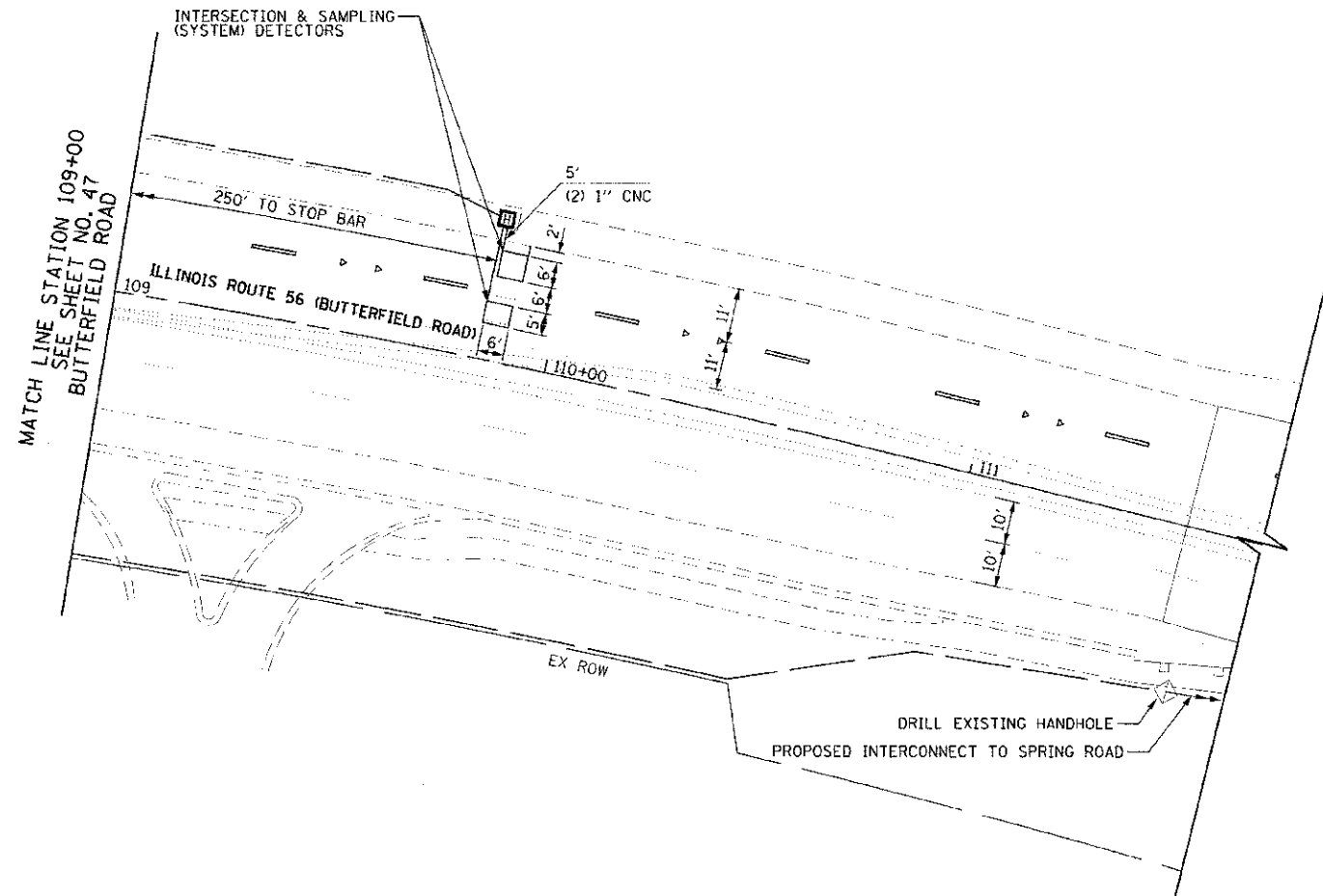
SCALE: 1"=20' SHEET NO. 48 OF 108 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3545	09-00170-00-CH	DUPAGE	108	48
FED. ROAD DIST. NO. 7 ILLINOIS FED. AID PROJECT			CONTRACT NO. 63742	

PLAN	SURVEYED	BY	DATE
	DESIGNED		
	CHECKED		
	DATE		
	SCALE		
	PROJECT		
	NO.		



BUTTERFIELD ROAD
SEE SHEET NO. 47
MATCH LINE STATION 104+00



FILE PATH: G:\CIBS\3885\Road\1145E_2\Draws\1048200-10-11\1048200.dwg



USER NAME = halorenz	DESIGNED - JSL	REVISED - 10/10/12
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PLT DATE = 12/17/2012	DATE - 10/22/2012	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ILLINOIS ROUTE 56 (BUTTERFIELD ROAD) AT COMMONWEALTH LANE
PROPOSED TRAFFIC SIGNAL INSTALLATION PLAN (2 OF 2)

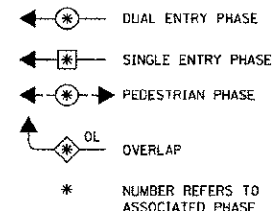
SCALE: 1"=20' SHEET NO. 49 OF 108 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3545	09-00170-00-CH	DUPAGE	106	49
CONTRACT NO. 63742			FED. ROAD DIST. NO. 7 ILLINOIS FED. AID PROJECT	

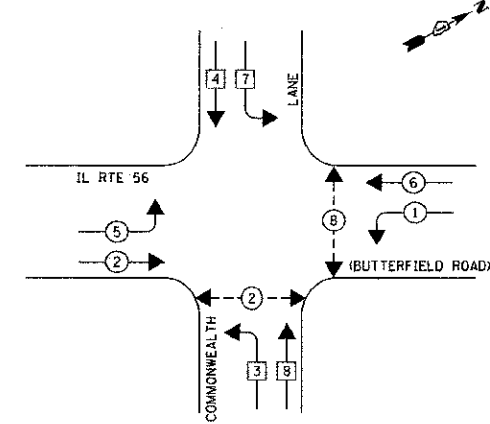
SCHEDULE OF QUANTITIES

QUANTITY	UNIT	ITEM
30	SO. FT.	SIGN PANEL-TYPE 1
55	SO. FT.	SIGN PANEL-TYPE 2
705	FOOT	UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA.
74	FOOT	UNDERGROUND CONDUIT, GALVANIZED STEEL, 2 1/2" DIA.
117	FOOT	UNDERGROUND CONDUIT, GALVANIZED STEEL, 3" DIA.
405	FOOT	UNDERGROUND CONDUIT, GALVANIZED STEEL, 4" DIA.
4	EACH	HANDHOLE
5	EACH	HEAVY-DUTY HANDHOLE
2	EACH	DOUBLE HANDHOLE
1	EACH	FULL-ACTUATED DOUBLE DOOR CONTROLLER AND TYPE IV CABINET, SPECIAL
530	FOOT	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C
1362	FOOT	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C
2812	FOOT	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C
853	FOOT	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C
2383	FOOT	ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1 PAIR
556	FOOT	ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C
1	EACH	TRAFFIC SIGNAL POST, 14 FT.
2	EACH	TRAFFIC SIGNAL POST, 16 FT.
1	EACH	STEEL COMBINATION MAST ARM ASSEMBLY AND POLE, 36 FT.
1	EACH	STEEL COMBINATION MAST ARM ASSEMBLY AND POLE, 46 FT.
1	EACH	STEEL COMBINATION MAST ARM ASSEMBLY AND POLE, 50 FT.
1	EACH	STEEL COMBINATION MAST ARM ASSEMBLY AND POLE, 58 FT.
12	FOOT	CONCRETE FOUNDATION, TYPE A
4	FOOT	CONCRETE FOUNDATION, TYPE C
10	FOOT	CONCRETE FOUNDATION, TYPE E 30-INCH DIAMETER
28	FOOT	CONCRETE FOUNDATION, TYPE E 36-INCH DIAMETER
21	FOOT	CONCRETE FOUNDATION, TYPE E 42-INCH DIAMETER
8	EACH	SIGNAL HEAD, I.E.D., 1-FACE, 3-SECTION, MAST ARM MOUNTED
2	EACH	SIGNAL HEAD, I.E.D., 1-FACE, 5-SECTION, MAST ARM MOUNTED
2	EACH	SIGNAL HEAD, I.E.D., 2-FACE, 3-SECTION, BRACKET MOUNTED
2	EACH	SIGNAL HEAD, I.E.D., 2-FACE, 1-3 SECTION, 1-5 SECTION, BRACKET MOUNTED
2	EACH	PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER
1	EACH	PEDESTRIAN SIGNAL HEAD, LED, 2-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER
12	EACH	TRAFFIC SIGNAL BACKPLATE, LOUVERED, ALUMINUM
12	EACH	INDUCTIVE LOOP DETECTOR
851	FOOT	DETECTOR LOOP, TYPE 1
3	EACH	LIGHT DETECTOR
1	EACH	LIGHT DETECTOR AMPLIFIER
4	EACH	PEDESTRIAN PUSH-BUTTON
1	EACH	TEMPORARY TRAFFIC SIGNAL INSTALLATION
1	EACH	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT
11	EACH	REMOVE EXISTING HANDHOLE
10	EACH	REMOVE EXISTING CONCRETE FOUNDATION
807	FOOT	EMERGENCY VEHICLE PRIORITY SYSTEM LINE SENSOR CABLE, NO. 20 3/C
1	EACH	SERVICE INSTALLATION- POLE MOUNTED
1	EACH	UNINTERRUPTIBLE POWER SUPPLY, SPECIAL
1	EACH	TEMPORARY TRAFFIC SIGNAL TIMING
3	EACH	PAINT NEW TRAFFIC SIGNAL POST
1	EACH	PAINT NEW COMBINATION MAST ARM AND POLE, UNDER 40 FOOT
3	EACH	PAINT NEW COMBINATION MAST ARM AND POLE, 40 FOOT AND OVER

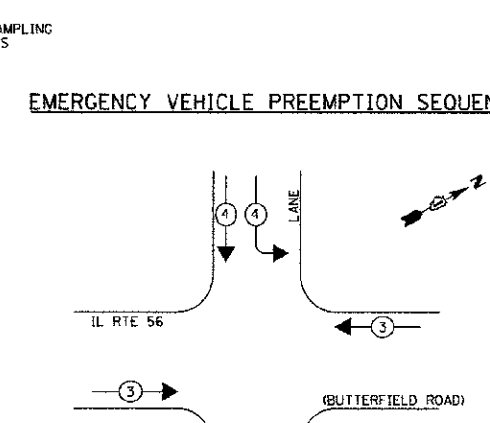
LEGEND



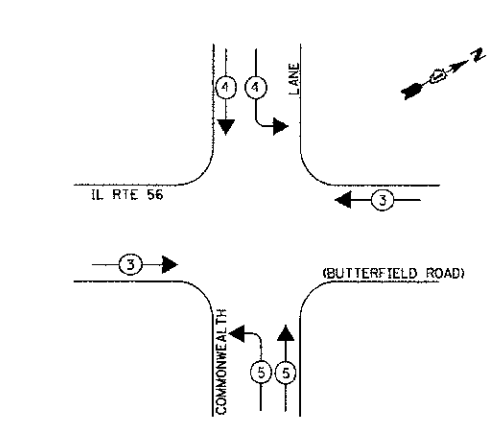
CONTROLLER SEQUENCE



PHASE DESIGNATION DIAGRAM



EMERGENCY VEHICLE PREEMPTION SEQUENCE



PROPOSED EMERGENCY VEHICLE PREEMPTORS		
EMERGENCY VEHICLE PREEMPTOR	3	4
MOVEMENT	←	→

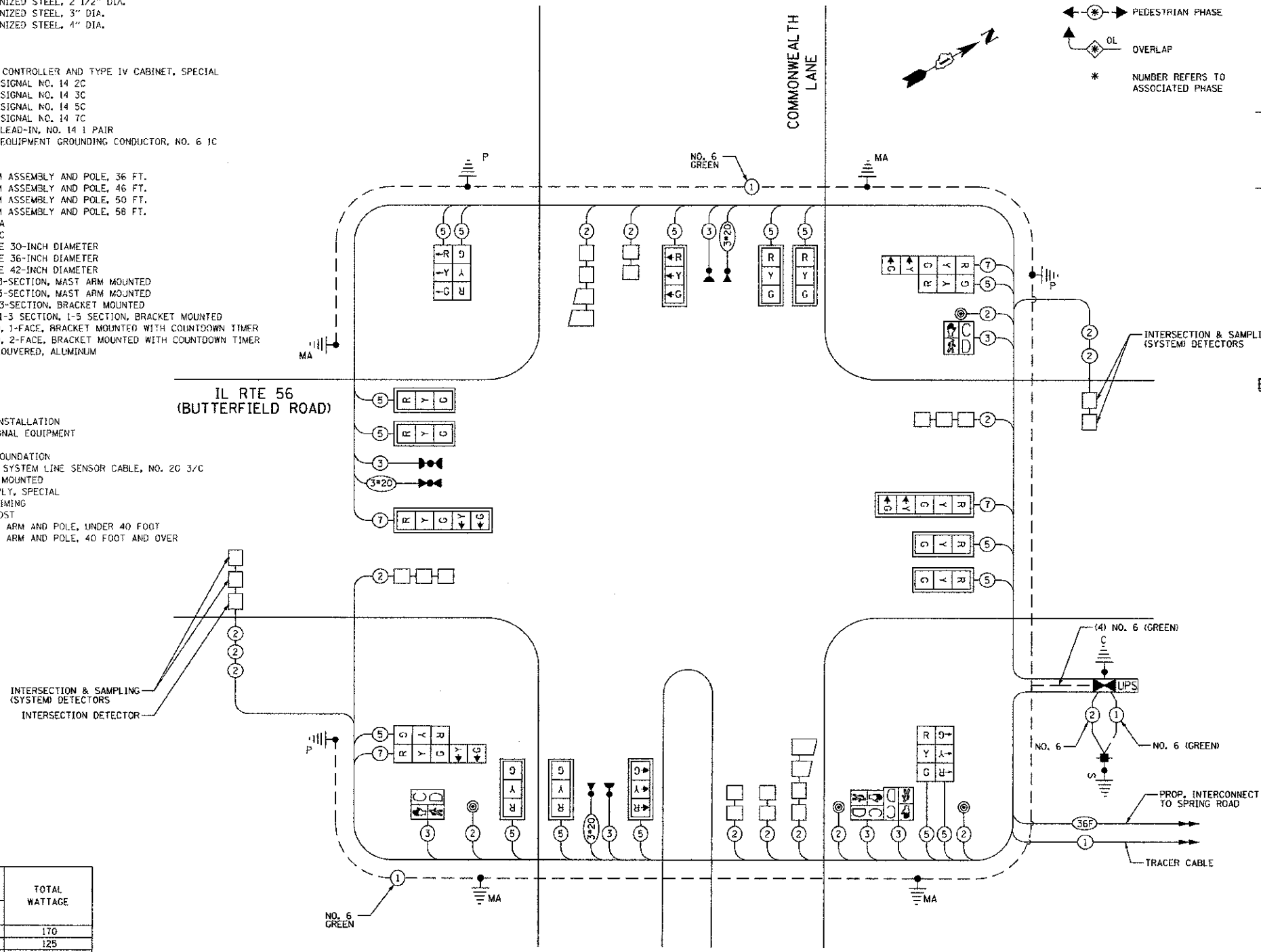
THE END OF THE TRACER CABLE SHALL BE CONTINUOUS AND EXTEND INTO THE CONTROLLER CABINET.

THE TRAFFIC SIGNAL CONTROL 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 INCLUDED IN 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, MEDIAN, 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.

IL RTE 56 (BUTTERFIELD ROAD)

COMMONWEALTH LANE



CABLE PLAN NOT TO SCALE

- NOTES:**
- ALL TRAFFIC SIGNAL HEADS SHALL BE ALL BLACK.
 - ALL OTHER TRAFFIC SIGNAL EQUIPMENT SHALL BE PAINTED ALPHA BRONZE IN ACCORDANCE WITH CITY OF ELMHURST STANDARDS.
 - ALL EVP EQUIPMENT SHALL BE OPTICOM.

I.D.O.T. TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS					TOTAL WATTAGE
TYPE	NO. LAMPS	WATTAGE		% OPERATIONS	
SIGNAL (RED)	20	135	17	0.50	170
(YELLOW)	20	135	25	0.25	125
(GREEN)	20	135	15	0.25	75
ARROW	8	135	12	0.10	10
PEC. SIGNAL	4	90	25	1.00	100
CONTROLLER	1	100	100	1.00	100
ILLUM. SIGN	0	100	90	1.00	0

ENERGY COSTS TO: TOTAL = 580
 CITY OF ELMHURST
 209 N. YORK STREET
 ELMHURST, IL 60126
 ENERGY SUPPLY CONTACT: DEB RANKIN
 PHONE: (630) 691-4379
 COMPANY: COMMONWEALTH EDISON COMPANY

DATE	BY	REVISION

DATE	BY	REVISION

FILE PATH = G:\CADD\0808\RoadPhase 2\Sheet\02\0808-TS-Sheet3.dgn



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 PLOT DATE = 12/17/2012

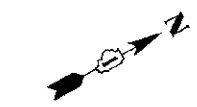
DESIGNED - JSL	REVISED - 10/10/12
DRAWN - JSL	REVISED - 12/13/12
CHECKED - RPJ	
DATE - 10/22/2012	REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

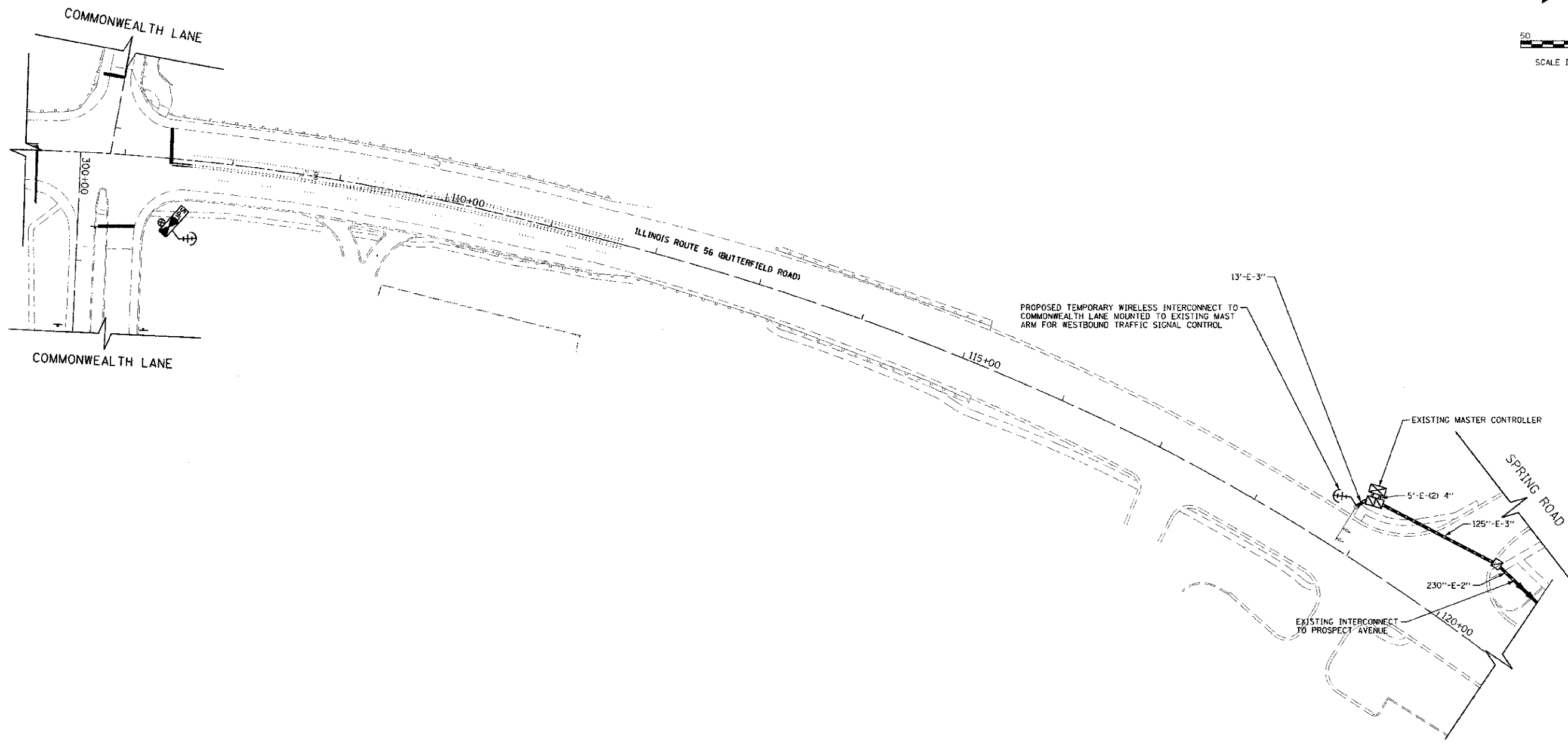
ILLINOIS ROUTE 56 (BUTTERFIELD ROAD) AT COMMONWEALTH LANE
 PROPOSED TRAFFIC SIGNAL PLAN,
 SEQUENCE OF OPERATIONS AND SCHEDULE OF QUANTITIES
 SCALE: NONE SHEET NO. 50 OF 108 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3545	09-00170-00-CH	DUPAGE	108	50

CONTRACT NO. 63742
 FED. ROAD DIST. NO. 7 ILLINOIS FED. AID PROJECT



50 0 50
SCALE IN FEET



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

PLAN	SURVEYED	BY	DATE
NOTE BOOK	PROF. CHECKED		
	DATE		
	NO. FILE MADE		

PROFILE	SURVEYED	BY	DATE
NOTE BOOK	PROF. CHECKED		
	DATE		
	NO. FILE MADE		

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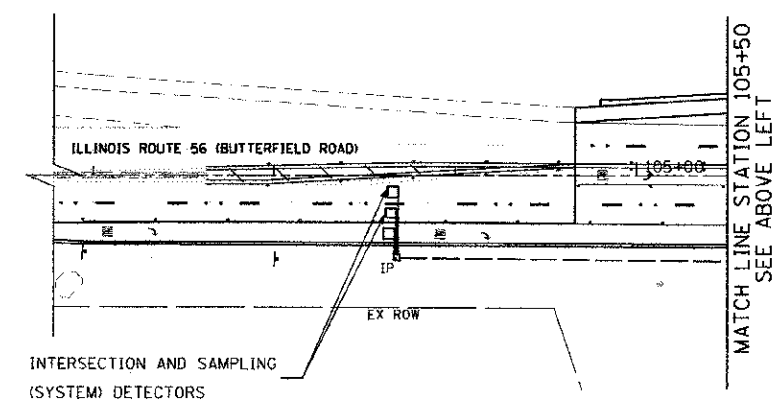
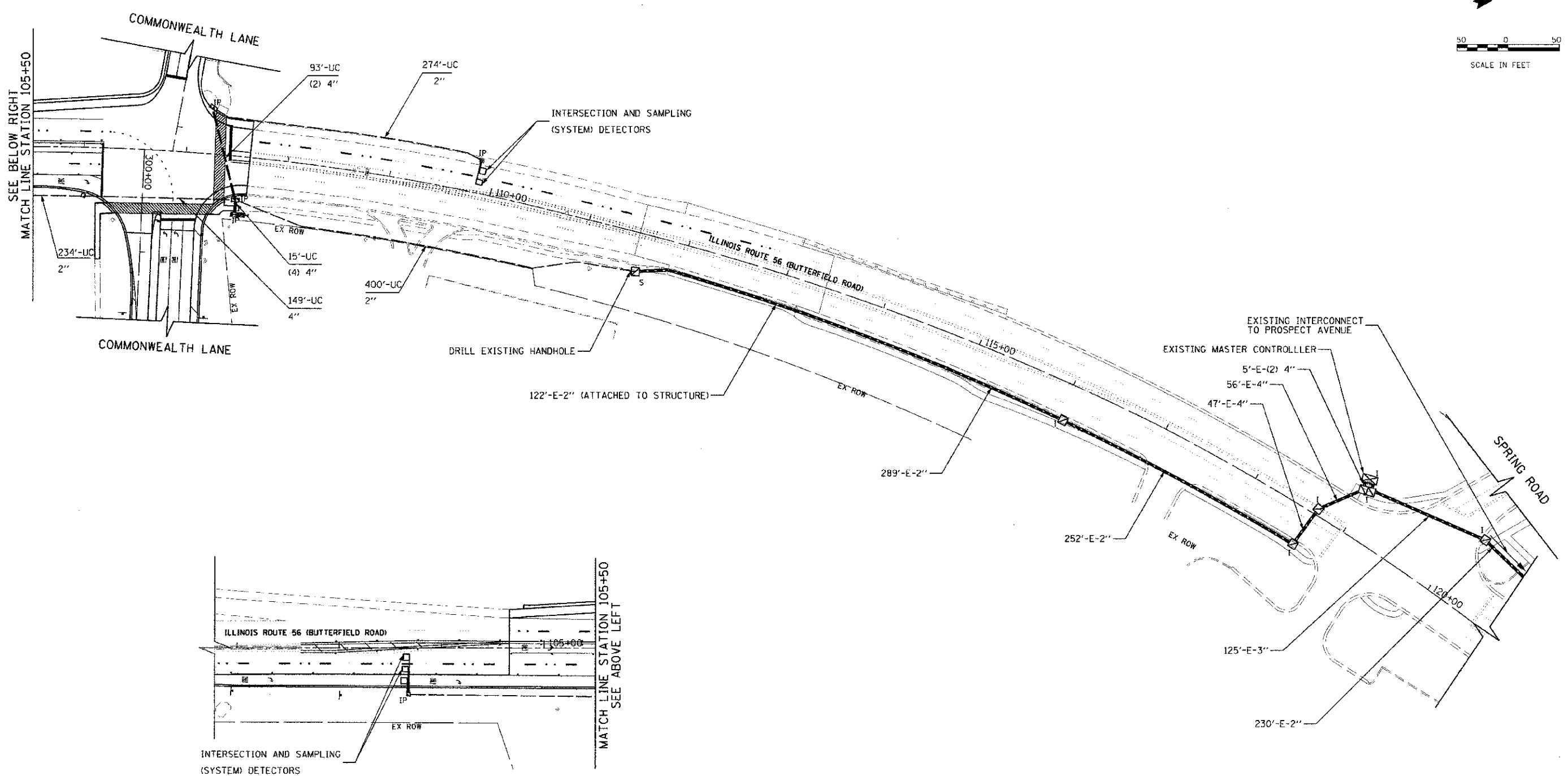
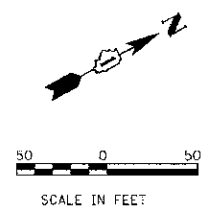
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PLOT DATE = 12/17/2012	DATE - 10/22/2012	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ILLINOIS ROUTE 56 (BUTTERFIELD ROAD)
COMMONWEALTH LANE TO PROSPECT AVENUE
TEMPORARY INTERCONNECT PLAN

SCALE: 1"=50' SHEET NO. 51 OF 108 SHEETS

F.A.M. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3545	09-00170-00-CH	DUPAGE	108	51
FED. ROAD DIST. NO. 7 ILLINOIS FED. AID PROJECT			CONTRACT NO. 63742	



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

PLAN	DATE
BY	
CHECKED	
DESIGNED	
APPROVED	
NO.	

PROFILE	DATE
BY	
CHECKED	
DESIGNED	
APPROVED	
NO.	

FILE PATH: G:\CADD\2008\2\Shasta\010208-TS-Interconnect\Sheet1.dgn



USER NAME - kolorenz	DESIGNED - JSL	REVISED - 10/10/12
FILE NAME - 010208-TS-InterconnectSheet1.dgn	DRAWN - JSL	REVISED - 12/13/12
PLOT SCALE - 50.0000 / 1" = 50'	CHECKED - RPJ	REVISED -
PLOT DATE - 12/17/2012	DATE - 10/22/2012	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ILLINOIS ROUTE 56 (BUTTERFIELD RD) COMMONWEALTH LANE TO PROSPECT AVENUE INTERCONNECT PLAN	
SCALE: 1"=50'	SHEET NO. 53 OF 108 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3545	09-00170-00-CH	DUPAGE	108	53
FED. ROAD DIST. NO. 7 (ILLINOIS) FED. AID PROJECT			CONTRACT NO. 63742	

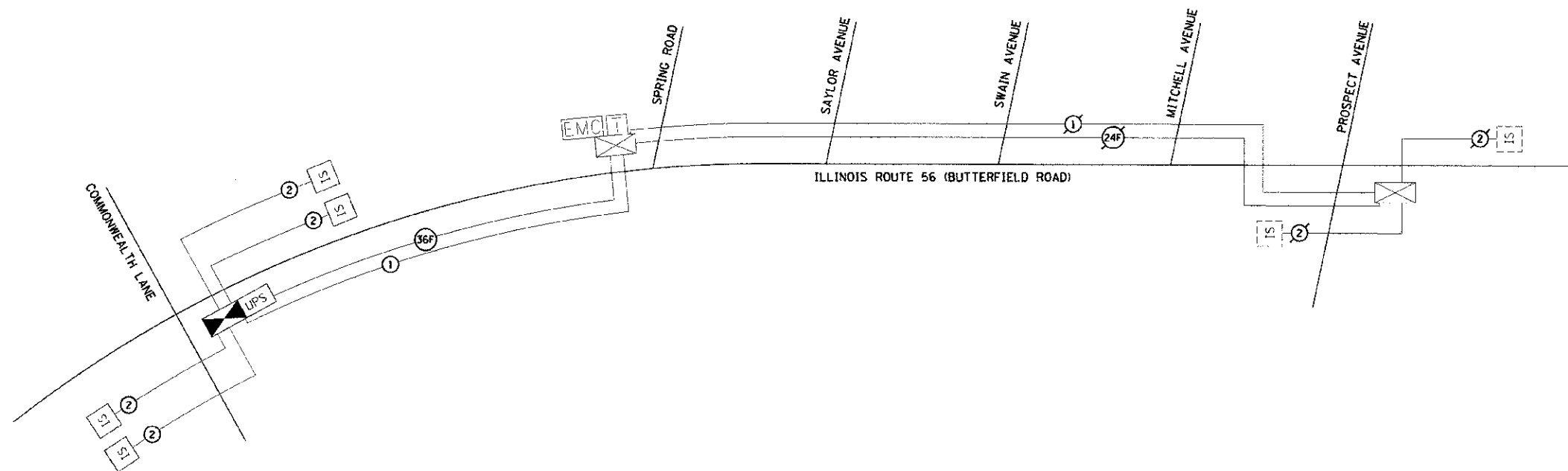
INTERCONNECT SCHEDULE OF QUANTITIES

QUANTITY	UNIT	ITEM
400	FOOT	UNDERGROUND CONDUIT, GALVANIZED STEEL, 2"
1	EACH	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION
1	EACH	TRANSCIVER - FIBER OPTIC
1	EACH	DRILL EXISTING HANDHOLE
1295	FOOT	REMOVE ELECTRIC CABLE FROM CONDUIT
1304	FOOT	FIBER OPTIC CABLE IN CONDUIT, NO. 62.5/125 MM12F & SM24F
1281	FOOT	ELECTRIC CABLE IN CONDUIT, TRACER NO. 14 1C
1	EACH	RE-OPTIMIZE TRAFFIC SIGNAL SYSTEM LEVEL 2



PLAN	SUPPLIED	DATE
NOTE BOOK	ALIGNED	
NO.	BY	

PROFILE	SUPPLIED	DATE
NOTE BOOK	ALIGNED	
NO.	BY	



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



USER NAME = kalorenz	DESIGNED - JSL	REVISED - 10/10/12
FILE NAME = D:\X2008\TS InterconnectSheet2	DRAWN - JSL	REVISED - 12/13/12
PLOT SCALE = 52,000%	CHECKED - RPJ	REVISED -
PLOT DATE = 12/17/2012	DATE - 10/22/2012	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**ILLINOIS ROUTE 56 (BUTTERFIELD ROAD)
COMMONWEALTH LANE TO PROSPECT AVENUE
INTERCONNECT SCHEMATIC PLAN**

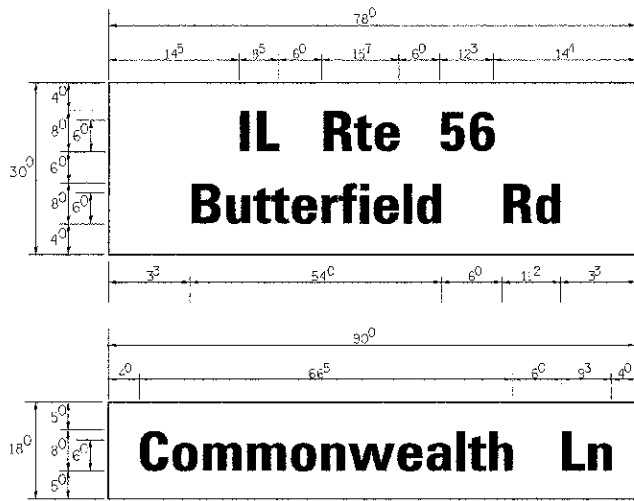
F.A.M. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3545	09-00170-00-CH	DUPAGE	106	54
FED. ROAD DIST. NO. 7 ILLINOIS FED. AID PROJECT			CONTRACT NO. 63742	

FILE PATH = C:\CADD\BIBEN\Road\TIME 2\31000000-15\1\InterconnectSheet2.dwg

DATE
BY
CHECKED
DATE
NO. OF SHEETS
SHEET NO.

DATE
BY
CHECKED
DATE
NO. OF SHEETS
SHEET NO.

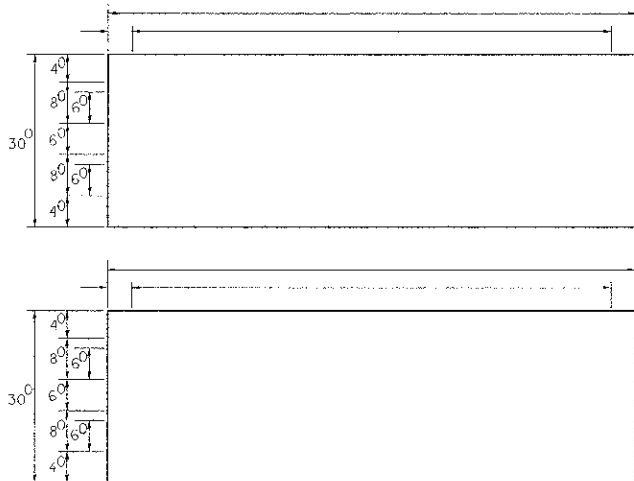
PANEL SIGN DESIGN TYPE 2



Sq. Ft. each
16.25 Sq. Ft. each
2 Required
Design Series D

Sq. Ft. each
11.25 Sq. Ft. each
2 Required
Design Series C

NOTE: SIGN DIMENSIONS ARE IN ENGLISH UNITS



Sq. Ft. each
Sq. Ft. each
Required
Design Series

Sq. Ft. each
Sq. Ft. each
Required
Design Series

GENERAL NOTES

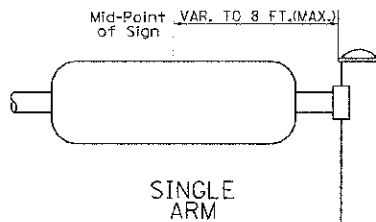
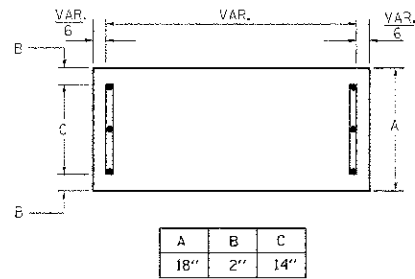
- WHERE MAST ARM MOUNTED STREET NAME SIGNS ARE SPECIFIED, THE MAST ARM ASSEMBLY AND POLES SHALL BE DESIGNED TO SUPPORT THE LOADINGS CALLED FOR ON STANDARDS 877001, 877002, 877006, 877011 AND 877012. AS APPLICABLE, PLUS TWO (2) SIGN PANELS 2'-6" x 8'-0" MOUNTED AS SHOWN. THE DESIGN SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF THE CURRENT "STANDARD SPECIFICATIONS FOR STRUCTURAL SUPPORTS FOR HIGHWAY SIGNS, LUMINAIRES, AND TRAFFIC SIGNALS" AS PUBLISHED BY THE AMERICAN ASSOCIATION OF STATE HIGHWAY AND TRANSPORTATION OFFICIALS FOR 80 M.P.H. WIND VELOCITY.
- ALL SIGNS SHALL HAVE A WHITE REFLECTORIZED LEGEND AND BORDER ON A GREEN REFLECTORIZED BACKGROUND, TYPE A SHEETING.
- THE SIGN LENGTH SHOULD BE INCREASED IN 6-INCH INCREMENTS, BUT THE OVERALL LENGTH SHOULD NOT EXCEED 8'-0".
- ALL BORDERS SHALL BE 3/4" WIDE AND CORNER RADIUS SHALL BE 2-1/4".
- SIGNFIX ALUMINUM CHANNEL FRAMING SYSTEM SHALL BE USED FOR ALL SIGNS ATTACHED TO SIGNAL POLES AND POSTS. LOCAL SUPPLIERS OF THE SIGNFIX ALUMINUM CHANNEL FRAMING SYSTEM ARE:
* J.O. HERBERT CO. MIDLOTHIAN, VA * WESTERN REVMAC INC. WOODRIDGE, IL

PARTS LISTING

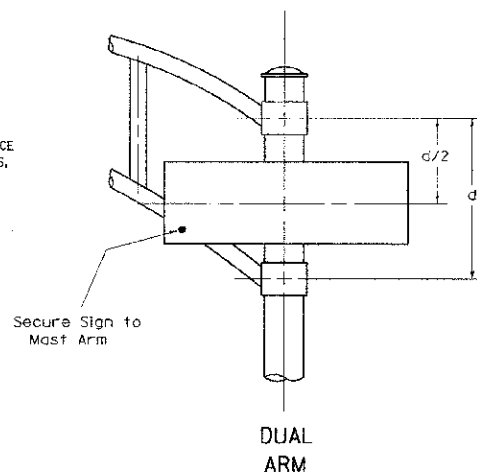
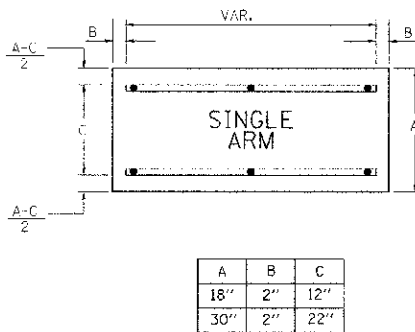
SIGN CHANNEL PART #HPN053 (M.D. CHANNEL)
SIGN SCREWS 1/4" x 14 x 1" H.W.H. #3
SELF TAPPING WITH NEOPRENE WASHER
BRACKETS PART #HPN034 (UNIVERSAL)
CHANNEL CLAMPS WITH STAINLESS STEEL STRAPPING

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

SUPPORTING CHANNELS



SUPPORTING CHANNELS



SIGNFIX ALUMINUM CHANNEL FRAMING SYSTEM
Shall be used. See Note #5.

Upper Case To Lower Case
Spacing Chart 8-6 Inch Series "C & D"

SERIES	SECOND LETTER															
	a c c d e		b h i k l		f w		j		s t		v y		x		z	
	g o q	m n p r u														
A W X	12	14	14	15	12	14	06	10	11	14	06	10	11	12	12	14
B	14	15	20	21	14	15	11	12	14	15	12	14	12	14	16	17
C E G	14	15	20	21	12	14	06	10	12	14	12	14	14	15	14	15
D O Q R	14	15	20	21	14	15	06	10	12	14	12	14	14	15	14	15
F	05	06	14	15	06	10	05	06	06	10	06	10	06	10	11	12
H I M N	20	21	22	24	20	21	14	15	16	17	16	17	20	21	20	21
J U	20	21	20	21	16	17	14	15	16	17	16	17	16	17	20	21
K L	11	12	16	17	11	12	05	06	11	12	11	12	11	12	12	14
P	12	14	14	15	12	14	05	06	11	12	11	12	12	14	12	14
S	12	14	16	17	12	14	06	10	12	14	12	14	12	14	12	14
T	11	12	16	17	06	10	06	10	11	12	11	12	11	12	12	14
V	06	10	14	15	11	12	06	10	12	14	12	14	12	14	12	14
Y	05	06	14	15	06	10	05	06	05	07	05	06	06	10	11	12
Z	16	17	22	24	16	17	12	14	16	17	16	17	16	17	20	21

Lower Case To Lower Case
Spacing Chart 6 Inch Series "C & D"

SERIES	SECOND LETTER															
	a c c d e		b h i k l		f w		j		s t		v y		x		z	
	g o q	m n p r u														
ad h g i j	16	17	22	24	16	17	12	14	14	15	14	15	16	17	16	17
l m n q u																
b f k o p s	12	14	16	17	11	12	05	06	11	12	11	12	12	14	12	14
c e	12	14	16	17	12	14	06	10	12	14	12	14	12	14	12	14
r	06	10	12	14	06	10	03	03	05	06	05	06	06	10	06	10
t z	12	14	16	17	12	14	06	10	11	12	11	12	12	14	12	14
v y	11	12	14	15	11	12	05	06	06	10	06	10	11	12	11	12
w	11	12	14	15	11	12	05	06	11	12	11	12	11	12	12	14
x	12	14	16	17	11	12	05	06	11	12	11	12	11	12	12	14

Number To Number
Spacing Chart 8 Inch Series "C & D"

SERIES	SECOND NUMBER																			
	0		1		2		3		4		5		6		7		8		9	
0 9	16	17	16	17	14	15	12	14	14	15	14	15	16	17	12	14	16	17	16	17
1	20	21	20	21	20	21	16	17	14	15	20	21	20	21	14	15	20	21	20	21
2 3 4	14	15	14	15	14	15	12	14	14	15	14	15	14	15	11	12	16	17	14	15
5	14	15	14	15	14	15	11	12	11	12	14	15	14	15	11	12	14	15	14	15
6	16	17	14	15	14	15	12	14	14	15	14	15	14	15	11	12	14	15	14	15
7	12	14	12	14	14	15	12	15	05	06	12	14	14	15	11	12	14	15	12	14
8	16	17	16	17	14	15	12	15	12	14	14	15	16	17	12	14	16	17	14	15

EXAMPLE. 2³ DENOTES 3/8"

UPPER AND LOWER CASE
LETTER WIDTHS

LETTERS	6 INCH UPPER CASE LETTERS		8 INCH UPPER CASE LETTERS		LETTERS	6 INCH LOWER CASE LETTERS	
	SERIES		SERIES			SERIES	
	C	D	C	D		C	D
A	36	50	50	65	a	35	42
B	32	40	43	53	b	35	42
C	32	40	43	53	c	35	41
D	32	40	43	53	d	35	42
E	30	35	40	47	e	35	42
F	30	35	40	47	f	23	26
G	32	40	43	53	g	35	42
H	32	40	43	53	h	35	42
I	07	07	11	12	i	11	11
J	30	35	40	50	j	20	22
K	32	41	43	54	k	35	42
L	30	35	40	47	l	11	11
M	37	45	51	61	m	60	70
N	32	40	43	53	n	35	42
O	34	42	45	55	o	36	43
P	32	40	43	53	p	35	42
Q	34	42	45	55	q	35	42
R	32	40	43	53	r	26	32
S	32	40	43	53	s	36	42
T	30	35	40	47	t	27	32
U	32	40	43	53	u	35	42
V	35	44	47	60	v	42	47
W	44	52	60	70	w	55	64
X	34	40	45	53	x	44	51
Y	36	50	50	66	y	46	53
Z	32	40	43	53	z	36	43

NUMBER	6 INCH SERIES		8 INCH SERIES	
	C	D	C	D
1	12	14	15	20
2	32	40	43	53
3	32	40	43	53
4	35	43	47	57
5	32	40	43	53
6	32	40	43	53
7	32	40	43	53
8	32	40	43	53
9	32	40	43	53
0	34	42	45	55



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PLD1 DATE = 12/11/2012	DATE = 10/27/2012	REVISED =

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DISTRICT 1
MAST ARM MOUNTED STREET NAME SIGNS

F.A.U. RTE. 3545	SECTION 09-00170-00-CH	COUNTY DUPAGE	TOTAL SHEETS 108	SHEET NO. 55
TS-02		CONTRACT NO. 63742		
FED. ROAD DIST. NO. 7 ILLINOIS FED. AID PROJECT				

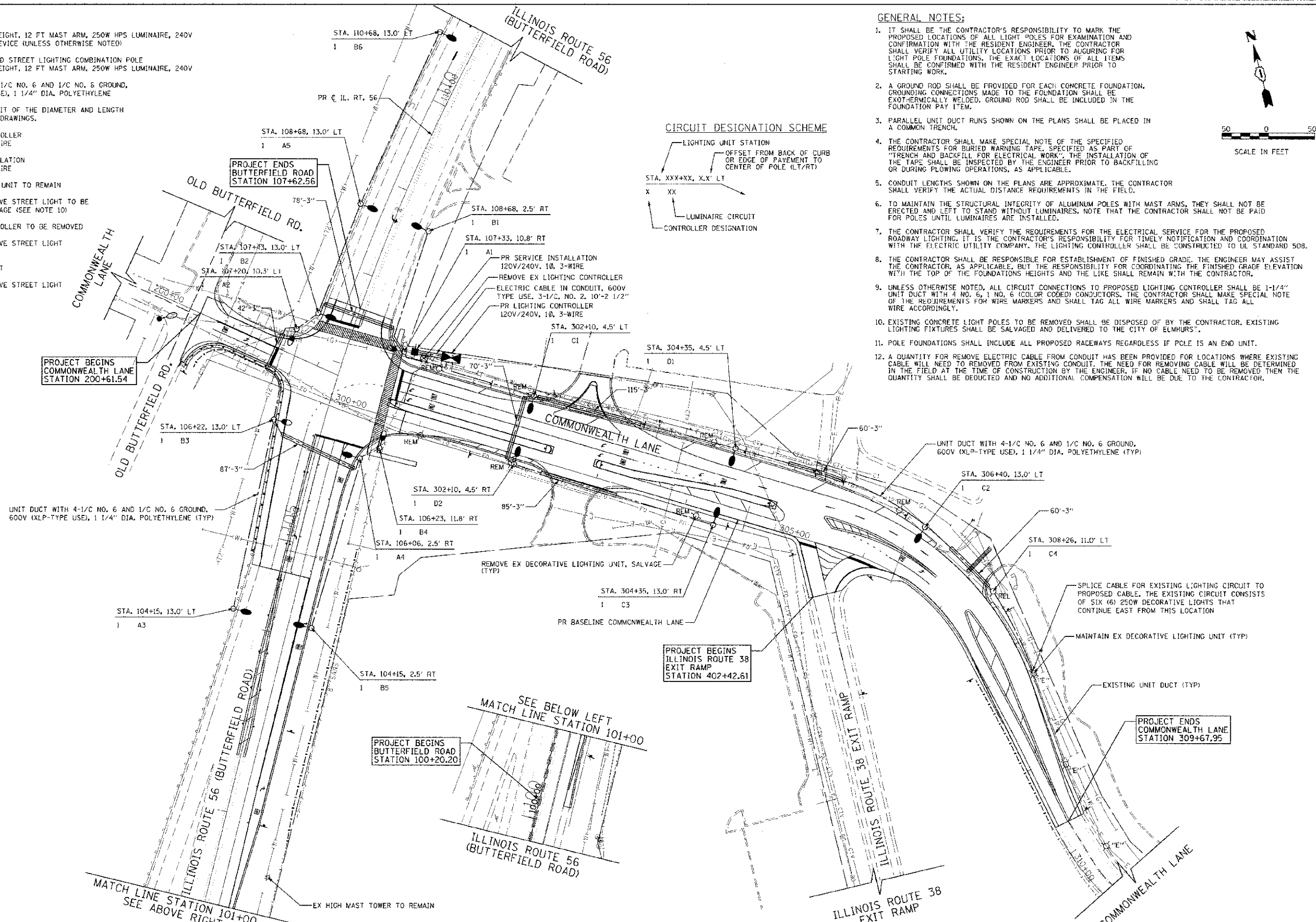
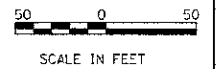
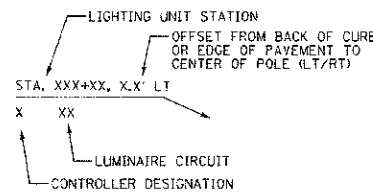
LEGEND

- LIGHT POLE
40 FT MOUNTING HEIGHT, 12 FT MAST ARM, 250W HPS LUMINAIRE, 240V WITH BREAKAWAY DEVICE (UNLESS OTHERWISE NOTED)
- TRAFFIC SIGNAL AND STREET LIGHTING COMBINATION POLE
40 FT MOUNTING HEIGHT, 12 FT MAST ARM, 250W HPS LUMINAIRE, 240V
- - - UNIT DUCT WITH 4-1/2" NO. 6 AND 1/2" NO. 6 GROUND,
600V (XLP-TYPE USE), 1 1/4" DIA. POLYETHYLENE
- ▬ RIGID STEEL CONDUIT OF THE DIAMETER AND LENGTH
INDICATED ON THE DRAWINGS.
- ⊠ PR LIGHTING CONTROLLER
120V/240V, 1Ø, 3-WIRE
- PR SERVICE INSTALLATION
120V/240V, 1Ø, 3-WIRE
- EXISTING LIGHTING UNIT TO REMAIN
- ⊗ REM EXISTING DECORATIVE STREET LIGHT TO BE
REMOVED AND SALVAGE (SEE NOTE 10)
- ⊗ EX EXISTING LIGHTING CONTROLLER TO BE REMOVED
- ⊗ "E" EXISTING DECORATIVE STREET LIGHT
TO BE MAINTAINED
- - - EXISTING UNIT DUCT
- ⊗ REL EXISTING DECORATIVE STREET LIGHT
TO BE RELOCATED

GENERAL NOTES:

1. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO MARK THE PROPOSED LOCATIONS OF ALL LIGHT POLES FOR EXAMINATION AND CONFIRMATION WITH THE RESIDENT ENGINEER. THE CONTRACTOR SHALL VERIFY ALL UTILITY LOCATIONS PRIOR TO AUGURING FOR LIGHT POLE FOUNDATIONS. THE EXACT LOCATIONS OF ALL ITEMS SHALL BE CONFIRMED WITH THE RESIDENT ENGINEER PRIOR TO STARTING WORK.
2. A GROUND ROD SHALL BE PROVIDED FOR EACH CONCRETE FOUNDATION. GROUNDING CONNECTIONS MADE TO THE FOUNDATION SHALL BE EXOT-HERMICALLY WELDED. GROUND ROD SHALL BE INCLUDED IN THE FOUNDATION PAY ITEM.
3. PARALLEL UNIT DUCT RUNS SHOWN ON THE PLANS SHALL BE PLACED IN A COMMON TRENCH.
4. THE CONTRACTOR SHALL MAKE SPECIAL NOTE OF THE SPECIFIED REQUIREMENTS FOR BURIED WARNING TAPE, SPECIFIED AS PART OF "TRENCH AND BACKFILL FOR ELECTRICAL WORK". THE INSTALLATION OF THE TAPE SHALL BE INSPECTED BY THE ENGINEER PRIOR TO BACKFILLING OR DURING PLOWING OPERATIONS, AS APPLICABLE.
5. CONDUIT LENGTHS SHOWN ON THE PLANS ARE APPROXIMATE. THE CONTRACTOR SHALL VERIFY THE ACTUAL DISTANCE REQUIREMENTS IN THE FIELD.
6. TO MAINTAIN THE STRUCTURAL INTEGRITY OF ALUMINUM POLES WITH MAST ARMS, THEY SHALL NOT BE ERRECTED AND LEFT TO STAND WITHOUT LUMINAIRES. NOTE THAT THE CONTRACTOR SHALL NOT BE PAID FOR POLES UNTIL LUMINAIRES ARE INSTALLED.
7. THE CONTRACTOR SHALL VERIFY THE REQUIREMENTS FOR THE ELECTRICAL SERVICE FOR THE PROPOSED ROADWAY LIGHTING. IT IS THE CONTRACTOR'S RESPONSIBILITY FOR TIMELY NOTIFICATION AND COORDINATION WITH THE ELECTRIC UTILITY COMPANY. THE LIGHTING CONTROLLER SHALL BE CONSTRUCTED TO UL STANDARD 508.
8. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ESTABLISHMENT OF FINISHED GRADE. THE ENGINEER MAY ASSIST THE CONTRACTOR, AS APPLICABLE, BUT THE RESPONSIBILITY FOR COORDINATING THE FINISHED GRADE ELEVATION WITH THE TOP OF THE FOUNDATIONS HEIGHTS AND THE LIKE SHALL REMAIN WITH THE CONTRACTOR.
9. UNLESS OTHERWISE NOTED, ALL CIRCUIT CONNECTIONS TO PROPOSED LIGHTING CONTROLLER SHALL BE 1-1/4" UNIT DUCT WITH 4 NO. 6, 1 NO. 6 (COLOR CODED) CONDUCTORS. THE CONTRACTOR SHALL MAKE SPECIAL NOTE OF THE REQUIREMENTS FOR WIRE MARKERS AND SHALL TAG ALL WIRE MARKERS AND SHALL TAG ALL WIRE ACCORDINGLY.
10. EXISTING CONCRETE LIGHT POLES TO BE REMOVED SHALL BE DISPOSED OF BY THE CONTRACTOR. EXISTING LIGHTING FIXTURES SHALL BE SALVAGED AND DELIVERED TO THE CITY OF ELMHURST.
11. POLE FOUNDATIONS SHALL INCLUDE ALL PROPOSED RACEWAYS REGARDLESS IF POLE IS AN END UNIT.
12. A QUANTITY FOR REMOVE ELECTRIC CABLE FROM CONDUIT HAS BEEN PROVIDED FOR LOCATIONS WHERE EXISTING CABLE WILL NEED TO BE REMOVED FROM EXISTING CONDUIT. THE NEED FOR REMOVING CABLE WILL BE DETERMINED IN THE FIELD AT THE TIME OF CONSTRUCTION BY THE ENGINEER. IF NO CABLE NEED TO BE REMOVED THEN THE QUANTITY SHALL BE DEDUCTED AND NO ADDITIONAL COMPENSATION WILL BE DUE TO THE CONTRACTOR.

CIRCUIT DESIGNATION SCHEME



DATE	BY	REVISION

FILE PATH = G:\Projects\0808\0808\Regen\SHIASE_2\Sheets\0808\0808-SH1-Lighting.dgn



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PLU DATE = 12/17/2012	DATE = 10/22/2012	REVISED =

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**BUTTERFIELD ROAD AT COMMONWEALTH LANE
LIGHTING PLAN**

SCALE: 1"=50' SHEET NO. 03 OF SHEETS STA. TO STA.

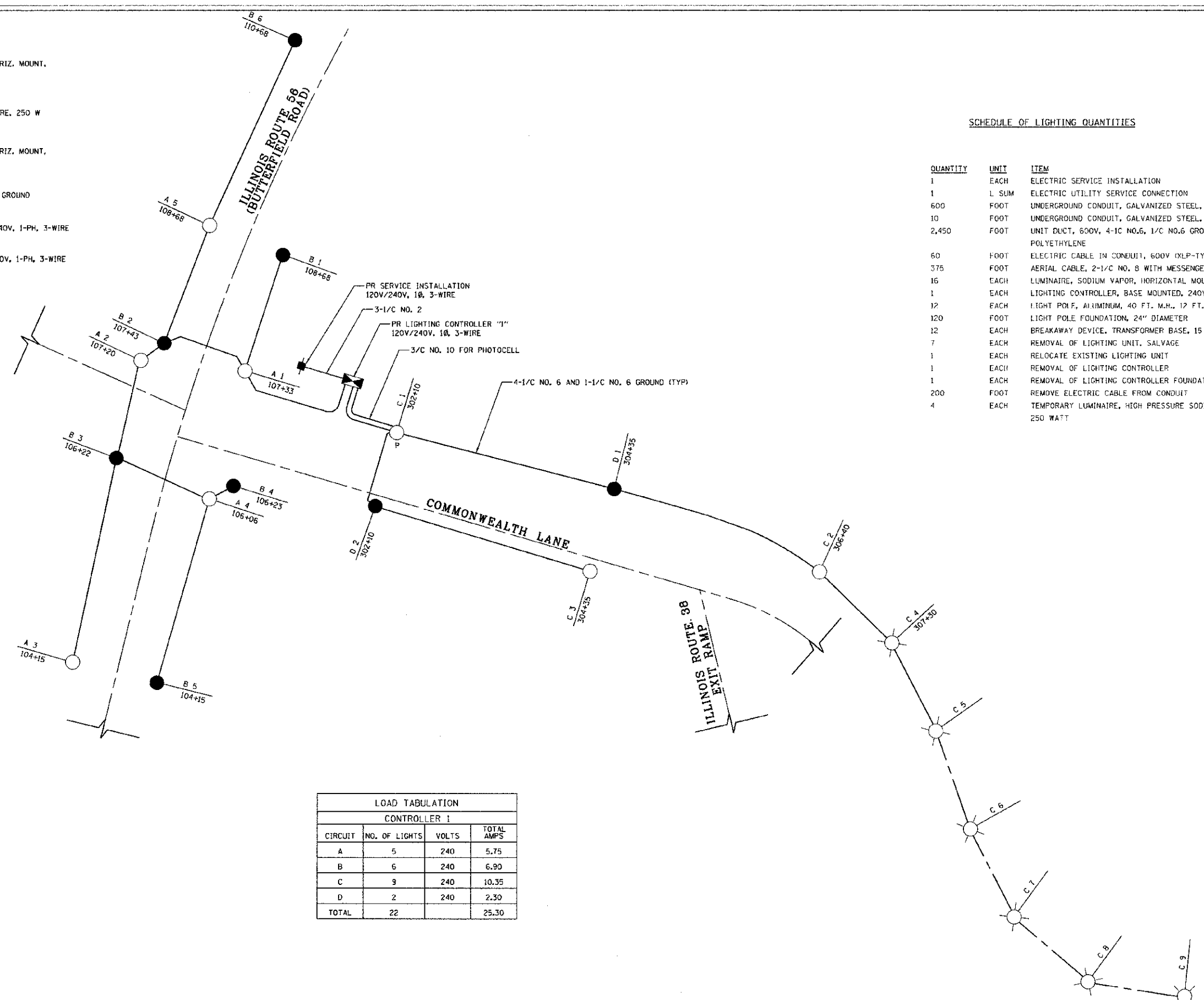
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3545	09-00170-00-CH	DUPAGE	108	61
CONTRACT NO. 63742			FED. ROAD DIST. NO. 7 (ILLINOIS) FED. AID PROJECT	

LEGEND

- LUMINAIRE, SODIUM VAPOR, HORIZ. MOUNT, 250 W. ON RED/BLACK WIRE
- ⊗ EXISTING DECORATIVE LUMINAIRE, 250 W
- LUMINAIRE, SODIUM VAPOR, HORIZ. MOUNT, 250 W. ON BLUE/ORANGE WIRE
- 4-1/2 NO. 6 AND 1-1/2 NO. 8 GROUND
- SERVICE INSTALLATION, 120/240V, 1-PH, 3-WIRE
- ⊞ LIGHTING CONTROLLER, 120/240V, 1-PH, 3-WIRE
- ⊡ PHOTO CELL LOCATION
- - - EXISTING CABLE

SCHEDULE OF LIGHTING QUANTITIES

QUANTITY	UNIT	ITEM
1	EACH	ELECTRIC SERVICE INSTALLATION
1	L SUM	ELECTRIC UTILITY SERVICE CONNECTION
600	FOOT	UNDERGROUND CONDUIT, GALVANIZED STEEL, 3" DIA.
10	FOOT	UNDERGROUND CONDUIT, GALVANIZED STEEL, 2 1/2" DIA.
2,450	FOOT	UNIT DUCT, 600V, 4-1C NO.6, 1/C NO.6 GROUND, (XLP-TYPE USE), 1 1/4" DIA. POLYETHYLENE
60	FOOT	ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 3-1/2 NO. 2
375	FOOT	AERIAL CABLE, 2-1/2 NO. 8 WITH MESSENGER WIRE
16	EACH	LUMINAIRE, SODIUM VAPOR, HORIZONTAL MOUNT, 250 WATT
1	EACH	LIGHTING CONTROLLER, BASE MOUNTED, 240VOLT, 100AMP
12	EACH	LIGHT POLE, ALUMINUM, 40 FT. M.H., 12 FT. MAST ARM
120	FOOT	LIGHT POLE FOUNDATION, 24" DIAMETER
12	EACH	BREAKAWAY DEVICE, TRANSFORMER BASE, 15 INCH BOLT CIRCLE
7	EACH	REMOVAL OF LIGHTING UNIT, SALVAGE
1	EACH	RELOCATE EXISTING LIGHTING UNIT
1	EACH	REMOVAL OF LIGHTING CONTROLLER
1	EACH	REMOVAL OF LIGHTING CONTROLLER FOUNDATION
200	FOOT	REMOVE ELECTRIC CABLE FROM CONDUIT
4	EACH	TEMPORARY LUMINAIRE, HIGH PRESSURE SODIUM VAPOR, HORIZONTAL MOUNT, 250 WATT



LOAD TABULATION

CONTROLLER 1			
CIRCUIT	NO. OF LIGHTS	VOLTS	TOTAL AMPS
A	5	240	5.75
B	6	240	6.90
C	9	240	10.35
D	2	240	2.30
TOTAL	22		25.30

PLAN	DATE
DESIGNED	
DRAWN	
CHECKED	
DATE	

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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

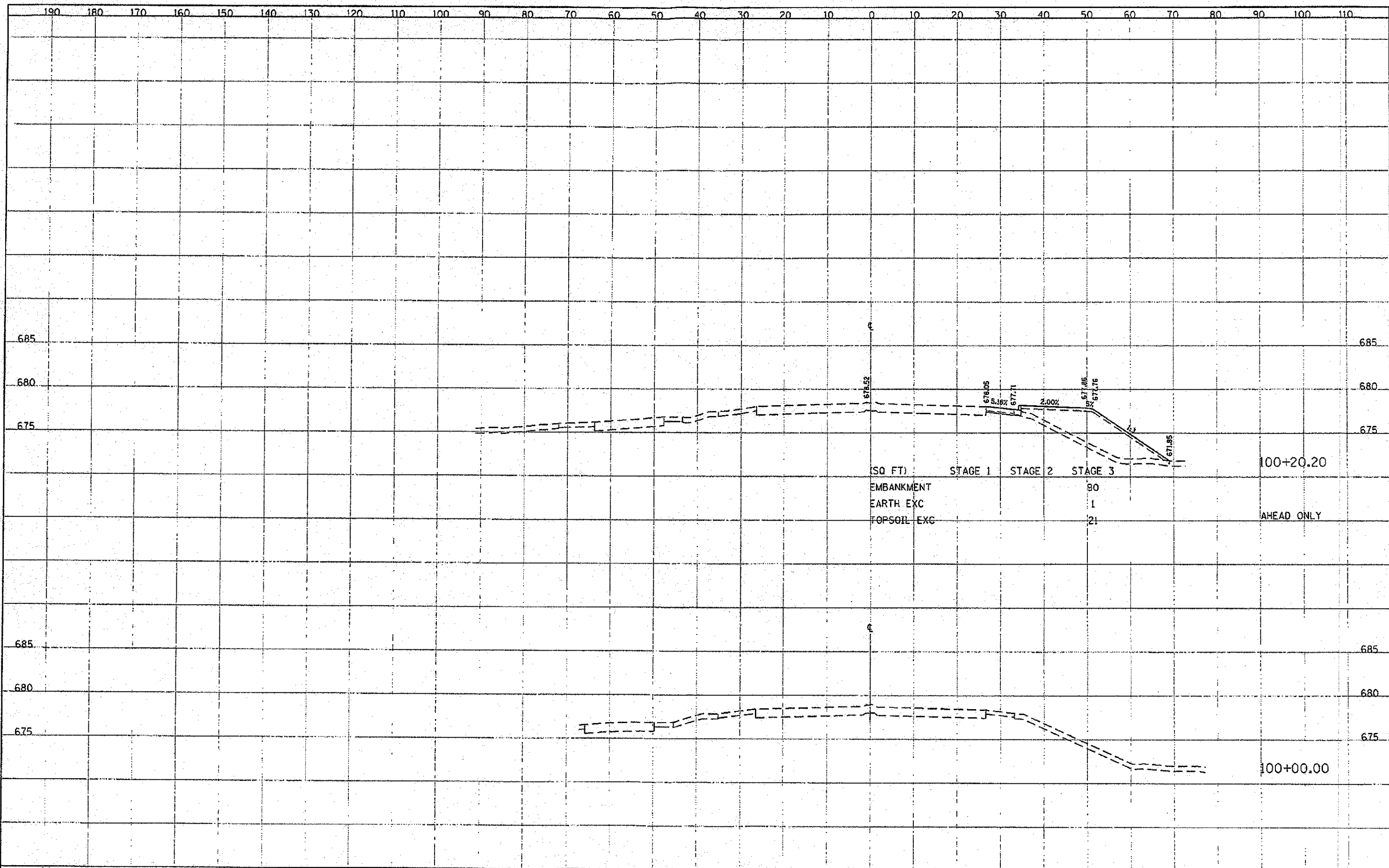
**BUTTERFIELD ROAD AT COMMONWEALTH LANE
WIRING DIAGRAM**

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

F.A.L. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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CONTRACT NO. 63742				
FED. ROAD DIST. NO. 7 (ILLINOIS) FED. AID PROJECT				

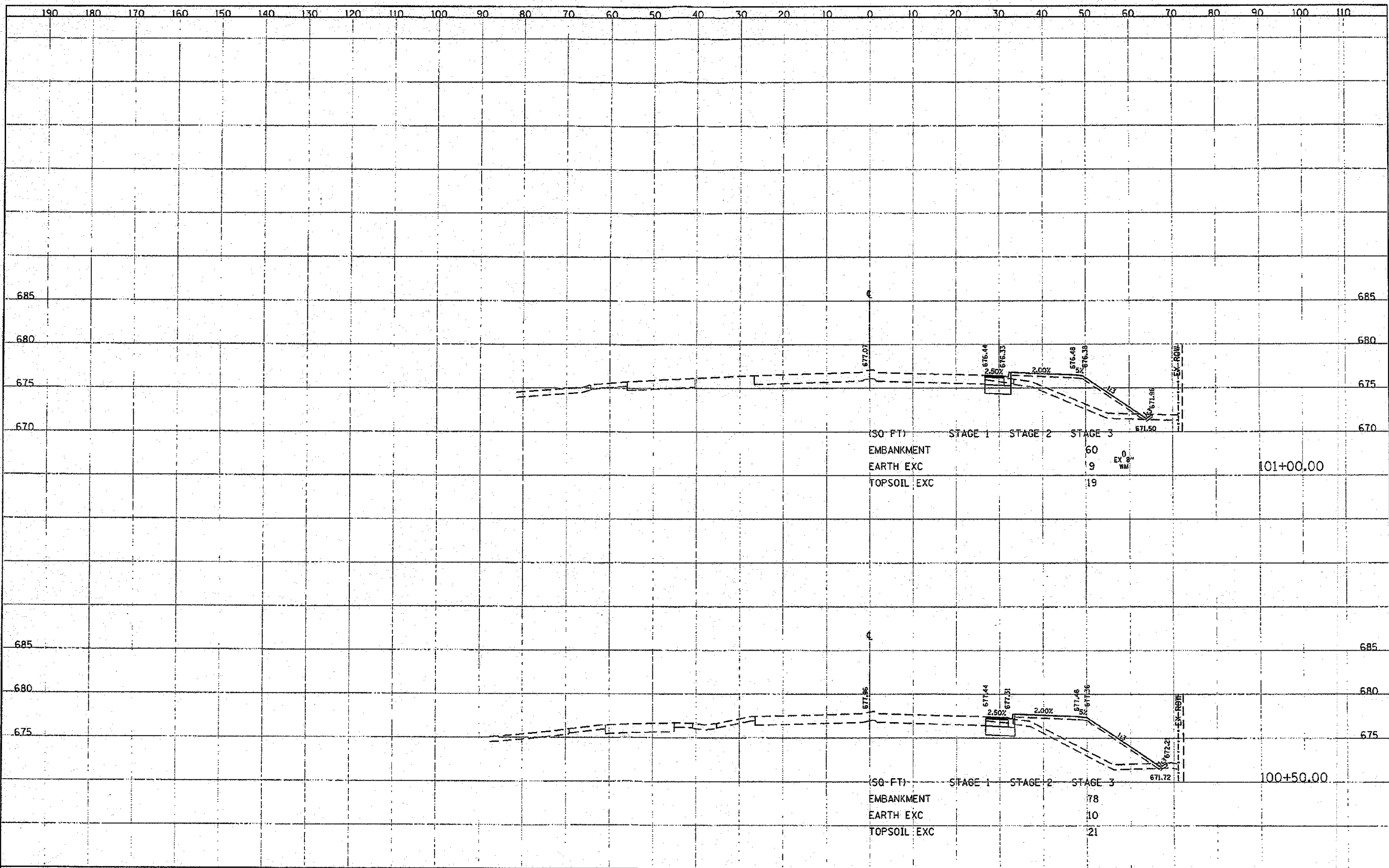
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DATE	10/22/2012

FILE NO.	100+00
PROJECT NO.	09-00170-00-CH
DATE	10/22/2012
DESIGNED	TKS
DRAWN	TKS
CHECKED	JMG
DATE	10/22/2012



PROJECT	09-00170-00-CH
SHEET NO.	108
DATE	10/22/2012
DESIGNED	TKS
DRAWN	TKS
CHECKED	JMG
DATE	10/22/2012

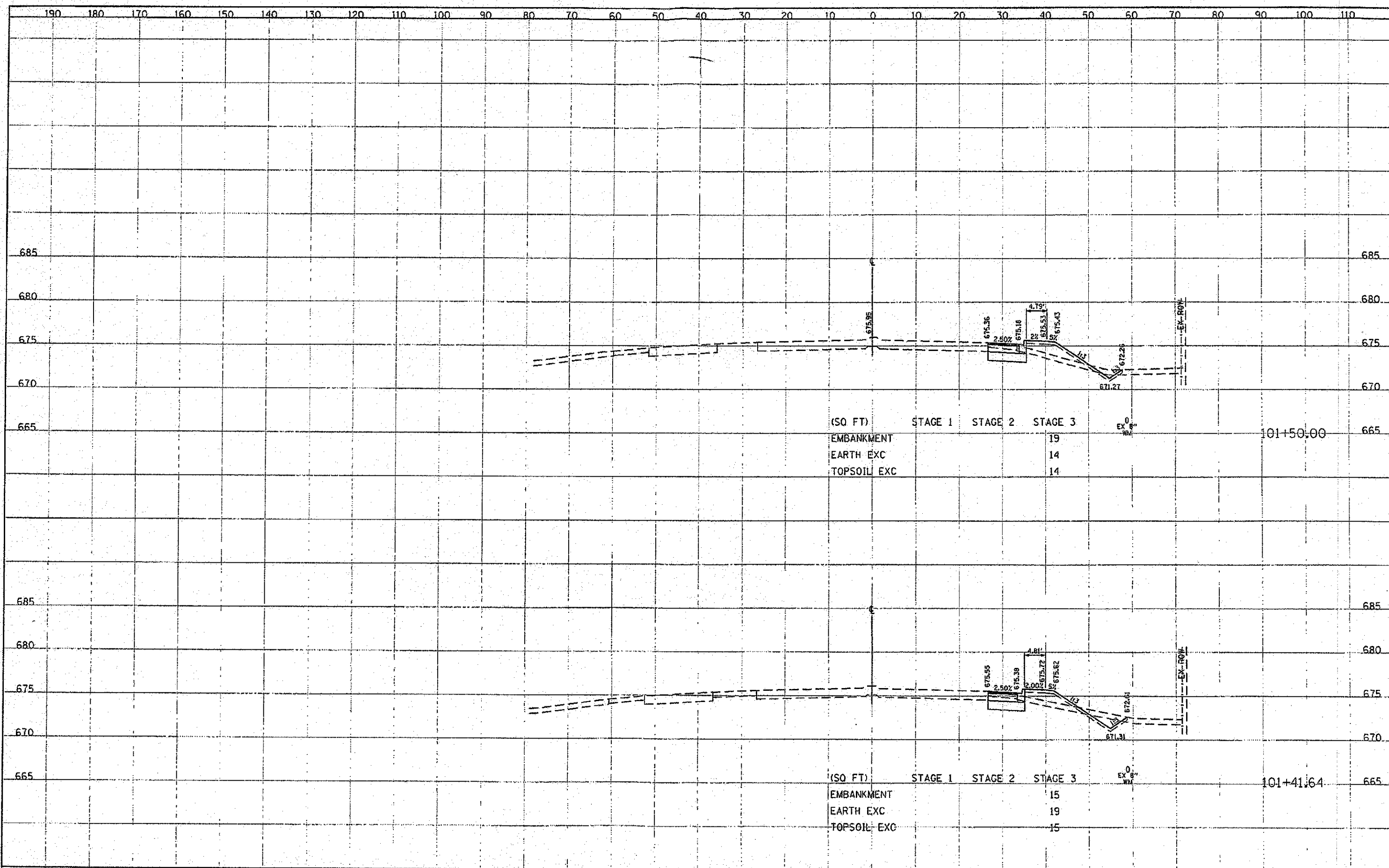
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DATE	10/22/2012
DESIGNED	TKS
DRAWN	TKS
CHECKED	JMG
DATE	10/22/2012



FILE NAME	09-00170-00-CH	DESIGNED	TKS	REVISED		STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	BUTTERFIELD ROAD AT COMMONWEALTH LANE BUTTERFIELD ROAD CROSS SECTIONS	F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	
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CHECKED	JMG	CHECKED	JMG	REVISED				CONTRACT NO. 63742		ILLINOIS FED. AID PROJECT		
SCALE:	1" = 40'	SHEET 86 OF 108 SHEETS		STA. 100+50 TO STA. 101+00								

FILE NO.	3545
PROJECT	Butterfield Road
SECTION	09-00170-00-CH
DRAWN BY	JMS
CHECKED BY	JMS
DATE	10/22/2012

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PROJECT	Butterfield Road
SECTION	09-00170-00-CH
DRAWN BY	JMS
CHECKED BY	JMS
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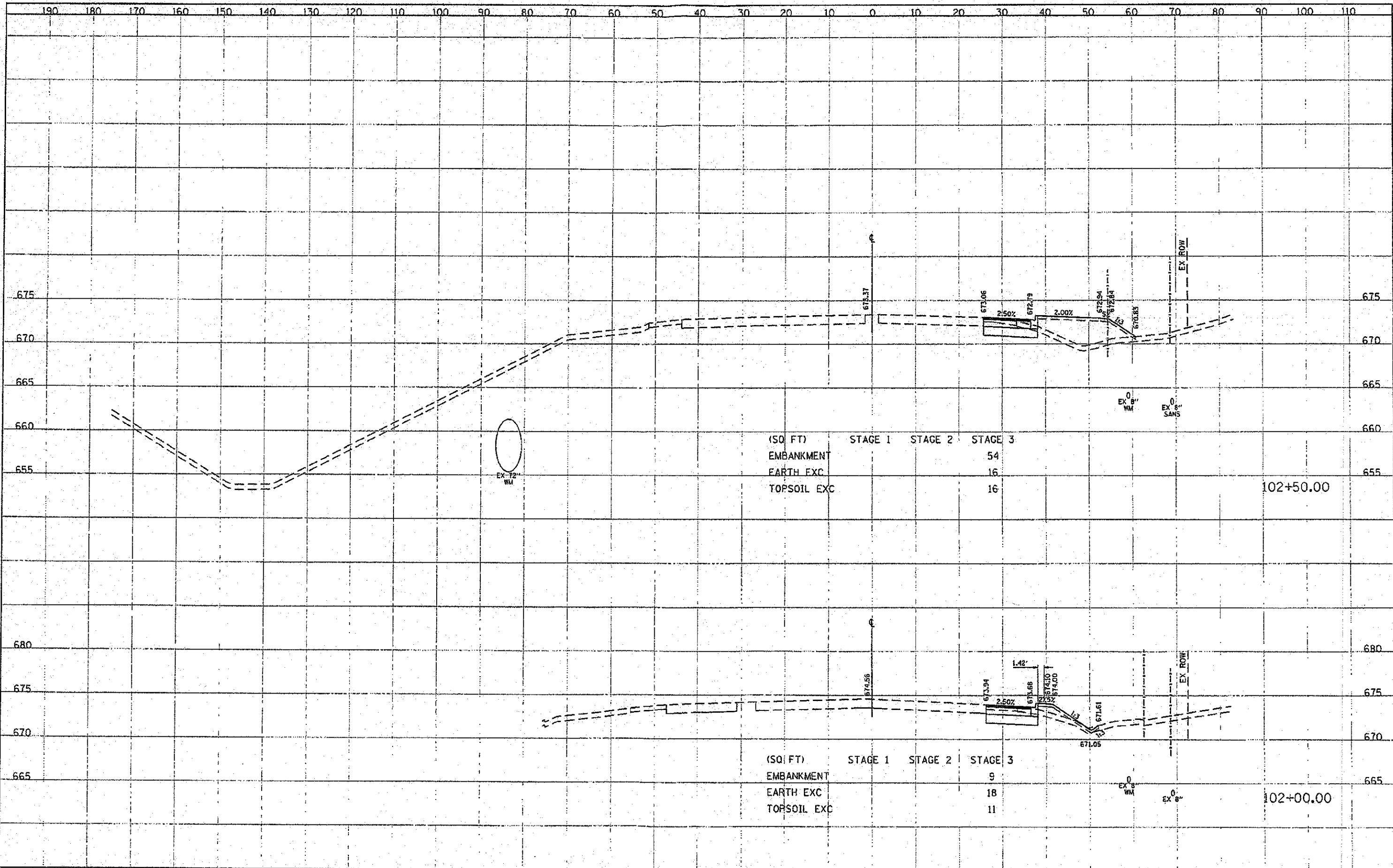


(SQ FT)	STAGE 1	STAGE 2	STAGE 3		
EMBANKMENT			19		
EARTH EXC			14		
TOPSOIL EXC			14		
				0	
				EX 8"	
				WM	
					101+50.00

(SQ FT)	STAGE 1	STAGE 2	STAGE 3		
EMBANKMENT			15		
EARTH EXC			19		
TOPSOIL EXC			15		
				0	
				EX 8"	
				WM	
					101+41.64

FILE NO.	09-00170-00-CH
PROJECT NO.	09-00170-00-CH
SHEET NO.	88
TOTAL SHEETS	108
DATE	10/22/2012
DESIGNED	TKS
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DATE	10/22/2012

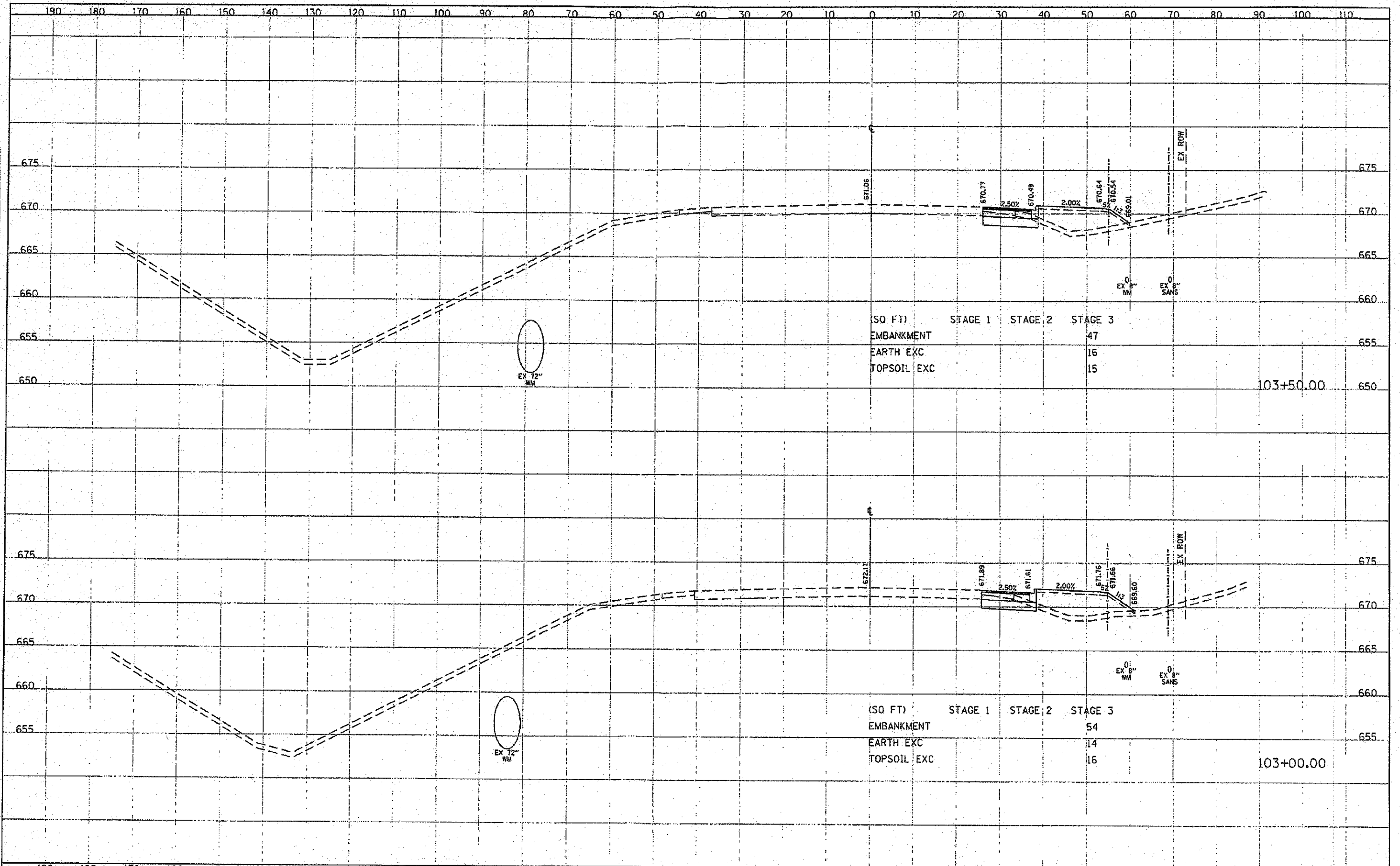
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DATE	10/22/2012



FILE NAME	09-00170-00-CH	DESIGNED	TKS	REVISIONS		STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	BUTTERFIELD ROAD AT COMMONWEALTH LANE BUTTERFIELD ROAD CROSS SECTIONS	F.A.U.:	SECTION	COUNTY	TOTAL SHEET	
PROJECT NO.	09-00170-00-CH	DRAWN	TKS	REVISIONS				3545	09-00170-00-CH	DUPAGE	108	88
SHEET NO.	88	CHECKED	JMG	REVISIONS				CONTRACT NO. 63742				
DATE	10/22/2012	DATE	10/22/2012	REVISIONS				ILLINOIS FED. AID PROJECT				
SCALE: 1" = 10'							SHEET 88 OF 108 SHEETS STA. 102+00 TO STA. 102+50					

DATE	
SCALE	
PROJECT	
DESIGNED	
DRAWN	
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DATE	

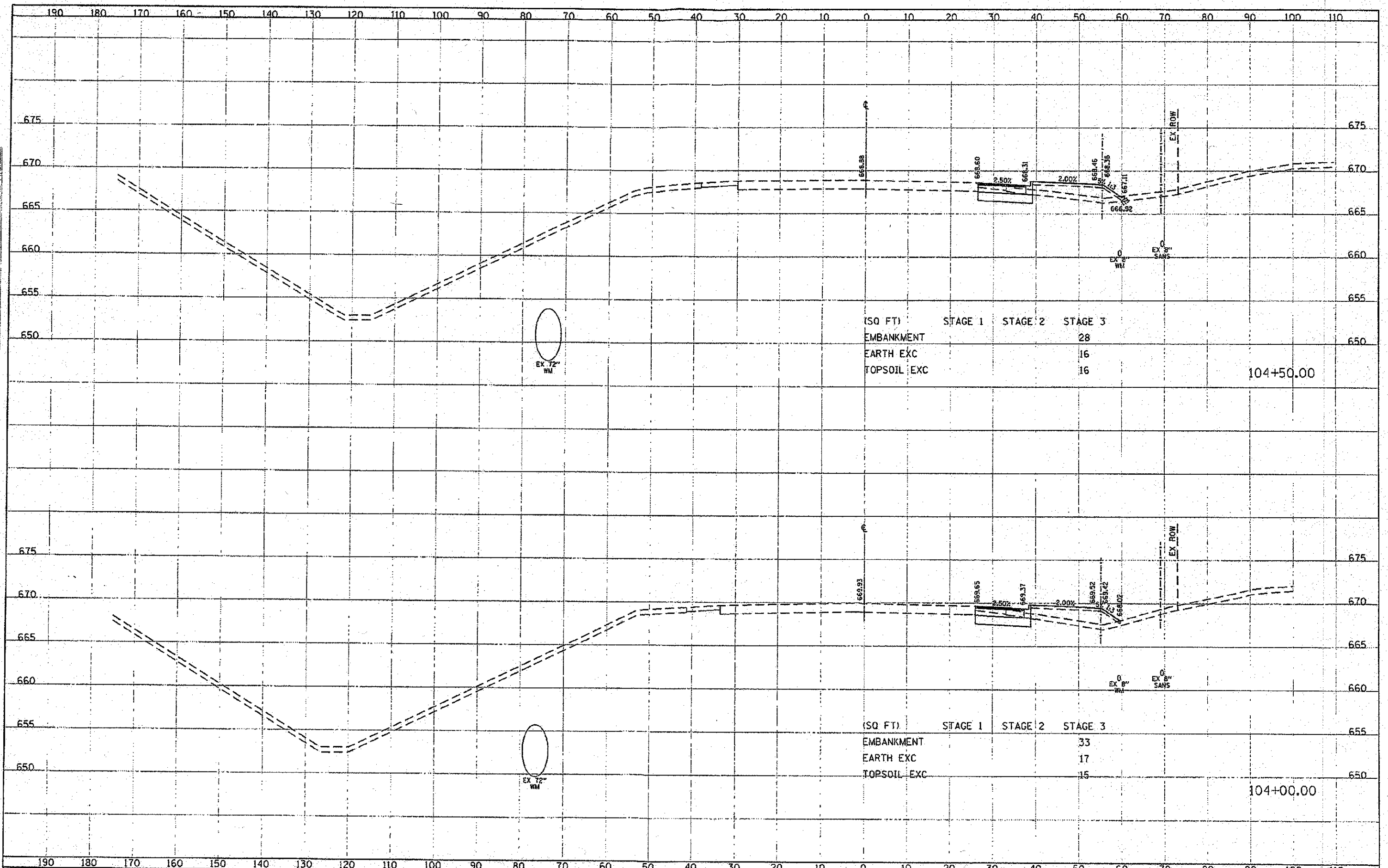
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DRAWN	TKS	REVISIONS																										
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DATE	10/22/2012	REVISIONS																										
SECTION	COUNTY	TOTAL SHEETS																										
09-00170-00-CH	DUPAGE	108																										
		SHEET NO. 89																										
SCALE: 1" = 10' HORIZ. 1" = 4' VERT.		SHEET 89 OF 108 SHEETS STA. 103+00 TO STA. 103+50																										
		ILLINOIS FED. AID PROJECT																										

DESIGNED	TKS
DRAWN	TKS
CHECKED	JMG
DATE	10/22/2012

DESIGNED	TKS
DRAWN	TKS
CHECKED	JMG
DATE	10/22/2012



DESIGNED	TKS	REVISED
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DATE	10/22/2012	REVISED

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DRAWN	TKS	REVISED
CHECKED	JMG	REVISED
DATE	10/22/2012	REVISED

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**BUTTERFIELD ROAD AT COMMONWEALTH LANE
BUTTERFIELD ROAD CROSS SECTIONS**

SCALE: 1" = 10'
SHEET 90 OF 108 SHEETS STA. 104+00 TO STA. 104+50

P.A.U. RTE.	SECTION	COUNTY	TOTAL SHEET SHEETS NO.
3545	09-00170-00-CH	DUPAGE	108 1 90
CONTRACT NO. 63742			ILLINOIS FED. AID PROJECT