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STATE STANDARDS

000001-04	STANDARD SYMBOLS, ABBREVIATIONS, AND PATTERNS	701006-02	OFF-ROAD OPERATIONS, 2L 2W, 4.5 M (15') TO 600 MM (24") FROM PAVEMENT EDGE
001001-01	AREAS OF REINFORCEMENT BARS	701101-01	OFF-ROAD OPERATIONS, MULTILANE, 4.5 M (15') TO 600 MM (24") FROM PAVEMENT EDGE
280001-03	TEMPORARY EROSION CONTROL SYSTEM	701106-01	OFF-ROAD OPERATIONS, MULTILANE, MORE THAN 4.5 M (15') AWAY
420001-06	PAVEMENT JOINTS	701201-02	LANE CLOSURE, 2L 2W, DAY ONLY, FOR SPEEDS > OR = 45 MPH
420111-01	PCC PAVEMENT ROUNDOUTS	701301-02	LANE CLOSURE, 2L 2W, SHORT TIME OPERATIONS,
420201-06	ENTRANCE RAMP TERMINAL	701306-01	LANE CLOSURE, 2L 2W, SLOW MOVING OPERATIONS DAY ONLY, FOR SPEEDS > OR = 45 MPH
420301-03	EXIT RAMP TERMINAL	701311-02	LANE CLOSURE, 2L 2W, MOVING OPERATIONS DAY ONLY
420401-05	BRIDGE APPROACH PAVEMENT	701326-02	LANE CLOSURE, 2L 2W, PAVEMENT WIDENING, FOR SPEEDS > OR = 45 MPH
482006-02	BITUMINOUS SHOULDER ADJACENT TO RIGID PAVEMENT	701606-04	URBAN LANE CLOSURE, MULTILANE, 2W WITH MOUNTABLE MEDIAN
483001-03	PCC SHOULDER	701701-04	URBAN LANE CLOSURE, MULTILANE INTERSECTION
515001-02	NAME PLATE FOR BRIDGES	702001-06	TRAFFIC CONTROL DEVICES
542301-01	PRECAST REINFORCED CONCRETE FLARED END SECTION	704001-03	TEMPORARY CONCRETE BARRIER
542311	GRATING FOR CONCRETE FLARED END SECTION	720001	SIGN PANEL MOUNTING DETAILS
542546	FLUSH INLET BOX FOR MEDIAN	720006-01	SIGN PANEL ERECTION DETAILS
542606	REINFORCED CONCRETE PIPE TEE	720011	METAL POSTS FOR SIGNS, MARKERS AND DELINEATORS
602001	CATCH BASIN, TYPE A	720016-01	MAST ARM MOUNTED STREET NAME SIGNS
602011	CATCH BASIN, TYPE C	729001	APPLICATIONS OF TYPES A & B METAL POSTS (FOR SIGNS & MARKERS)
602301-03	INLET, TYPE A	805001	ELECTRICAL SERVICE INSTALLATION DETAILS
602401-01	MANHOLE, TYPE A	814001-01	CONCRETE HANDHOLES
602701-01	CAST IRON STEPS	814006-01	DOUBLE HANDHOLES
604001-02	FRAME AND LIDS, TYPE I	857001	STANDARD PHASE DESIGNATION DIAGRAMS AND PHASE SEQUENCES
604036-01	GRATE, TYPE B	877001-02	STEEL MAST ARM ASSEMBLY AND POLE
604091-01	FRAME AND GRATE, TYPE 24	877011-02	STEEL COMBINATION MAST ARM ASSEMBLY AND POLE
606001-03	CONCRETE CURB, TYPE B AND COMBINATION CONCRETE CURB AND GUTTER	878001-05	CONCRETE FOUNDATION DETAILS
606006-01	OUTLET FOR CONCRETE CURB AND GUTTER, TYPE B-15.60 (B-6.24)	880001	SPAN WIRE MOUNTED SIGNALS AND FLASHING BEACON INSTALLATION
606201-01	TYPE B GUTTER (INLET, OUTLET & ENTRANCE)	880006	TRAFFIC SIGNAL MOUNTING DETAILS
606301-03	PC CONCRETE ISLANDS AND MEDIANS	886001	DETECTOR LOOP INSTALLATIONS
606306-02	CORRUGATED PC CONCRETE MEDIANS	886006	TYPICAL LAYOUTS FOR DETECTOR LOOPS
630001-07	STEEL PLATE BEAM GUARDRAIL		
630201-04	PCC/BITUMINOUS STABILIZATION AT STEEL PLATE BEAM GUARD RAIL		
630301-04	SHOULDER WIDENING FOR TYPE 1 (SPECIAL) GUARDRAIL TERMINAL		
631011-03	TRAFFIC BARRIER TERMINAL, TYPE 2		
631031-06	TRAFFIC BARRIER TERMINAL TYPE 6		
635001	DELINEATOR		
635006-02	REFLECTOR AND TERMINAL MARKER PLACEMENT		
635011-01	REFLECTOR MARKER AND MOUNTING DETAILS		
664001-01	CHAIN LINK FENCE		
701001-01	OFF-ROAD OPERATIONS, 2L 2W, MORE THAN 4.5 M (15') AWAY		

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
343	*	COOK	283	2
STA. 9+713.000		TO STA. 10+151.000		
FED. ROAD DIST. NO. 1		ILLINOIS FED. AID PROJECT		
* 700-Y-B-R & 70HB-R-1		62897		

221-224X DISTRICT DETAILS
 224X TRAFFIC BARRIER TERMINAL, TYPE 2 DETAIL
 225 CROSS SECTIONS KEY PLAN

Rev. 2-21-07
 Rev. 1-8-07

Rev.

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
 ILLINOIS ROUTE 68
 INDEX OF SHEETS
 STATE STANDARDS
 SCALE NTS
 DATE OCTOBER, 2006
 DRAWN BY GRH
 CHECKED BY PK

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DISTRICT ONE DETAILS

- BD-01 DRIVEWAY DETAILS - DISTANCE BETWEEN ROW AND FACE OF CURB
- BD-02 DRIVEWAY DETAILS - DISTANCE BETWEEN ROW AND FACE OF CURB
- BD-07 DETAIL OF STORM SEWER CONNECTION TO EXISTING SEWER
- BD-22 PAVEMENT PATCHING FOR BITUMINOUS TAPER DETAILS
- BD-24 CURB OR CURB AND GUTTER REMOVAL AND REPLACEMENT
- BD-32 BUTT JOINT AND BITUMINOUS TAPER DETAILS
- BD-34 DETAILS FOR STEEL PLATE BEAM GUARDRAIL ADJACENT TO CURB AND GUTTER AND STABILIZATION AT TBT TY. 1 SPL.
- BD-36 FIRE HYDRANTS TO BE MOVED
- BD-51 BENCHING CONSTRUCTION DETAIL
- TC-10 TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS AND DRIVEWAYS
- TC-11 TYPICAL APPLICATIONS RAISED REFLECTIVE PAVEMENT MARKERS
- TC-13 DISTRICT ONE TYPICAL PAVEMENT MARKINGS
- TC-14 TRAFFIC CONTROL AND PROTECTION AT TURN BAYS
- TC-16 PAVEMENT MARKING LETTERS AND SYMBOLS FOR TRAFFIC STAGING
- TC-18 SIGNING FOR FLAGGING OPERATIONS AT WORK ZONE OPENINGS
- TC-22 TEMPORARY INFORMATION SIGNING
- TS-05 DISTRICT ONE STANDARD TRAFFIC SIGNAL DESIGN DETAILS (SHEET 1)
- TS-07 DISTRICT ONE DETECTOR LOOP INSTALLATION DETAILS FOR ROADWAY RESURFACING
- BE-215 LIGHTING CONTROLLER SINGLE DOOR
- BE-220 ELECTRIC SERVICE INSTALLATION, AERIAL REMOTE DISCONNECT
- BE-301 LIGHT POLE FOUNDATION 12.192M (40') TO 14.478M (47'6") M.H. 381 (15") BOLT CIRCLE
- BE-330 LIGHT POLE MOUNTED ON CONCRETE PARAPET WALL
- BE-400 ALUMINUM LIGHT POLE 14.478M (47'6") MOUNTING HEIGHT
- BE-701 LUMINAIRE SAFETY CABLE ASSEMBLY
- BE-702 MISC. ELECTRICAL DETAILS SHEET A
- BE-800 TEMPORARY LIGHT POLE DETAILS
- BE-801 TEMPORARY AERIAL CABLE INSTALLATION
- BE-900 SUSPENDED MOUNT UNDERPASS LUMINAIRE INSTALLATION DETAILS

GENERAL NOTES

1. BEFORE STARTING ANY EXCAVATION, THE CONTRACTOR SHALL CALL "JULIE" AT (800) 892-0123 FOR FIELD LOCATIONS OF BURIED ELECTRIC, TELEPHONE, AND GAS FACILITIES. IN ADDITION, THE CONTRACTOR SHALL CONTACT THE VILLAGE OF PALATINE, VILLAGE OF INVERNESS AND COOK COUNTY HIGHWAY DEPARTMENT FOR FIELD LOCATIONS OF WATER MAIN, SANITARY SEWER, ELECTRIC, AND ALL MUNICIPAL UTILITIES. (48 HOURS NOTIFICATION IS REQUIRED.)
2. THE CONTRACTOR SHALL COORDINATE CONSTRUCTION ACTIVITIES WITH UTILITY COMPANIES, THE VILLAGE OF PALATINE, VILLAGE OF INVERNESS AND FOREST PRESERVE DISTRICT OF COOK COUNTY.
3. THE CONTRACTOR WILL NOT BE ALLOWED TO SET UP A YARD OR FIELD OFFICE ON STATE PROPERTY WITHOUT WRITTEN CONSENT FROM THE DEPARTMENT.
4. 3 METER (10 FOOT) TRANSITIONS SHALL BE USED TO MATCH PROPOSED ITEMS OF WORK TO THE EXISTING ITEMS IN THE FIELD, UNLESS OTHERWISE SHOWN. THE TRANSITIONS SHALL BE PAID FOR AT THE CONTRACT UNIT PRICE FOR THE PROPOSED ITEM OF WORK SPECIFIED.
5. THE CONTRACTOR SHALL PROVIDE AND INSTALL TWO (2) WEIGHTED SAND BAGS ON EACH TYPE I OR II BARRICADE USED. (ONE (1) WEIGHTED SAND BAG ACROSS EACH BOTTOM RAIL.) TYPE III BARRICADES SHALL HAVE FOUR (4) WEIGHTED SANDBAGS.
6. WHEN ARTIFICIAL LIGHTING IS UTILIZED IN NIGHT OPERATIONS, THE CONTRACTOR SHALL EXERCISE THE UTMOST PRECAUTIONS PREVENTING ADVERSE VISIBILITY TO THE MOTORING PUBLIC AND ADJOINING RESIDENTIAL AREAS.
7. ALL STORM SEWER CONNECTIONS WITH PIPES 675 mm (27") DIAMETER AND SMALLER SHALL BE MADE WITH PRECAST "TEE" OR "WYE" PIPES. FOR PROPOSED STORM SEWER PIPES LARGER THAN 675 mm (27") DIAMETER, OPENINGS OF THE SPECIFIED DIAMETER SHALL BE MADE IN THE PIPE AT THE TIME IT IS MANUFACTURED. PRECAST TEE AND WYE CONNECTIONS FOR PROPOSED STORM SEWER WILL NOT BE PAID FOR SEPARATELY BUT WILL BE INCLUDED IN THE COST OF STORM SEWER.
8. ALL ELEVATIONS REFER TO U.S.G.S. MEAN SEA LEVEL DATUM.
9. IT IS THE RESPONSIBILITY OF THE GENERAL CONTRACTOR TO HIRE AN ENVIRONMENTAL FIRM THAT IS PREQUALIFIED IN HAZARDOUS WASTE BY THE DEPARTMENT. THE PREQUALIFIED CONSULTANT MUST CONTINUOUSLY MONITOR ALL SOIL EXCAVATION AT SEVERAL LOCATIONS DURING EXECUTION OF THIS CONTRACT.
10. ALL TEMPORARY SHEET PILING NECESSARY FOR THE PLACEMENT OF STORM SEWER, SANITARY SEWER, AND WATERMAIN SHALL BE INCLUDED IN THE COST OF THE ITEM BEING INSTALLED.
11. APPROXIMATELY 1,305 METERS OF FULL-DEPTH SAWING IS REQUIRED TO SATISFACTORILY REMOVE THE EXISTING PAVEMENT AND DRIVEWAYS. THE COST OF THE FULL-DEPTH SAWING SHALL BE INCLUDED IN THE COST OF THE ITEM BEING REMOVED.
12. PAVEMENT ROUND-OUTS FOR DRAINAGE AND UTILITY STRUCTURES LOCATED WITHIN THE PAVEMENT SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE DETAILS SHOWN ON HIGHWAY STANDARD 420111. THIS WORK SHALL NOT BE PAID FOR SEPARATELY, BUT SHALL BE INCLUDED IN THE COST FOR PORTLAND CEMENT CONCRETE PAVEMENT (JOINTED) OF THE THICKNESS SPECIFIED.
13. THE ADDITIONAL THICKNESS OF AGGREGATE SUBGRADE, 300MM UNDER THE SHOULDER SHALL BE INCLUDED IN THE COST FOR AGGREGATE SUBGRADE, 300MM. NO ADDITIONAL COMPENSATION WILL BE ALLOWED.
14. ESTIMATED VOLUME OF CONCRETE TO BE REMOVED FROM EXISTING IL 68 OVER US 14 STRUCTURE = 551 CU M AND WEIGHT OF STRUCTURAL STEEL TO BE REMOVED = 196490 KG.
15. ESTIMATED VOLUME OF CONCRETE TO BE REMOVED FROM EXISTING IL 68 OVER UPRR STRUCTURE = 698 CU M AND 985 SQ M OF PPC DECK BEAMS.
16. TWO WEEKS BEFORE STARTING PLACEMENT OF PERMANENT PAVEMENT MARKINGS, THE CONTRACTOR SHALL CONTACT WALTER CZARNY, TRAFFIC F.E., AT (773) 685-8386.
17. BEFORE STARTING THE CONSTRUCTION, THE CONTRACTOR SHALL CONTACT IDOT BUREAU OF MAINTENANCE, ROADSIDE DEVELOPMENT UNIT, MELISSA DEL ROSARIO AT (847) 705-4171 FOR THE PROTECTION OF THE EXISTING LANDSCAPING.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
343		COOK	283	3
STA. 9+713.000		TO STA. 10+151.000		
FED. ROAD DIST. NO. 1		ILLINOIS FED. AID PROJECT		62897
• 70D-Y-B-R & 70HB-R-1				

16.

HMA MIXTURE REQUIREMENTS CHART		
MIXTURE USE	AC Type	VOIDS
IL RTE 68 & RAMPS		
STABILIZED SUB-BASE, 115mm	PG 58-22	2% @ 30 GYR
SHOULDERS		
HMA SHOULDERS 260mm	PG 58-22	2% @ 30 GYR
HMA SHOULDERS 150mm	PG 58-22	2% @ 30 GYR
TEMPORARY PAVEMENT		
HMA BASE COURSE 200mm	PG 58-22	2% @ 50 GYR
HMA SURFACE MIX "D", N50	PG 64-22	4% @ 50 GYR
ACCESS ROAD		
HMA SURFACE MIX "D", N70	PG 64-22	4% @ 70 GYR
HMA BASE COURSE 200mm	PG 58-22	2% @ 50 GYR
IL RTE 68 BUTT JOINTS & DRIVEWAY		
HMA SURFACE MIX "D", N70	PG 64-22	4% @ 70 GYR
DRIVEWAY		
HMA BASE COURSE 150mm	PG 58-22	2% @ 50 GYR

THE UNIT WEIGHT USED TO CALCULATE HMA BITUMINOUS MIXTURES IS 2.4Kg/SqM/mm.

NO COMMITMENTS FOR THIS PROJECT

NOTE: BOXED ITEMS INDICATE WORK NOT PAID FOR SEPARATELY, BUT INCLUDED AS PART OF ANOTHER PAY ITEM OR COST ASSOCIATED WITH THE CONTRACT.

- 2 REV. 2-15-07
- 1 REV. 1-9-07

REVISIONS		ILLINOIS DEPARTMENT OF TRANSPORTATION ILLINOIS ROUTE 68
NAME	DATE	
		DISTRICT ONE DETAILS, GENERAL NOTES AND COMMITMENTS
SCALE NTS	DRAWN BY GRH	CHECKED BY PK
DATE OCTOBER, 2006		

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
343	*	COOK	283	5
STA. 9+713.000		TO STA. 10+151.000		
FED. ROAD DIST. NO. 1		ILLINOIS FED. AID PROJECT		
* TOD-Y-B-R & TOHB-R-1		62897		

SUMMARY OF QUANTITIES										
IL ROUTE 68 @ US 14 IDOT PROJECT # D-91-097-05										
ITEM #	ITEM DESCRIPTION	UNIT	URBAN		RURAL		TOTAL		100% VILLAGE OF PALATINE Y031-30	
			TOTAL QUANTITY	ROADWAY J000-2A	STRUCTURE IL 68 OVER US 14 X271-2A	STRUCTURE IL 68 OVER UPRR X171-5B	TOTAL QUANTITY	TOTAL QUANTITY	TOTAL QUANTITY	TOTAL QUANTITY
M4830260	PORTLAND CEMENT CONCRETE SHOULDERS - 260MM	SQ M	4,826	4,826						
50100100	REMOVAL OF EXISTING STRUCTURES	EACH	2		1	1				
M5010570	PROTECTIVE SHIELD	SQ M	1399		1399					
M5020100	STRUCTURE EXCAVATION	CU M	6,030.1		701	5,279		50.1		
M5030350	CONCRETE STRUCTURES	CU M	391.9		111.2	183.6		97.1		
M5030360	CONCRETE SUPERSTRUCTURE	CU M	4,482.5		345	3,033				
M5030390	BRIDGE DECK GROOVING	SQ M	1,830		1083	747				
M5030450	PROTECTIVE COAT	SQ M	2,711		1,237	1,074		400		
50500305	ERECTING STRUCTURAL STEEL	L SUM	1		0.55	0.45				
50500505	STUD SHEAR CONNECTORS	EACH	5,311		2,409	2,550		352		
* M5070209	UNTREATED TIMBER LAGGING	SQ M	219.2					219.2		
* M5120270	FURNISHING SOLDIER PILES (W SECTION)	METER	383					383		
M5080205	REINFORCEMENT BARS, EPOXY COATED	KG	113,140		53,660	53,140		6340		
50800515	BAR SPLICERS	EACH	1,483		708	775				
M5110100	SLOPE WALL 100 MM	SQ M	638		638					
M5120107	FURNISHING METAL SHELL PILES 305MM	METER	2,672		1,276	1,396				
M5210022	ANCHOR BOLTS M 24	EACH	64		44	20				
M5210024	ANCHOR BOLTS M 36	EACH	20			20				
M5120335	DRIVING PILES	METER	2,672		1,276	1,396				
51203200	TEST PILE METAL SHELLS	EACH	4		2	2				
M5120900	TEMPORARY SHEET PILING	SQ M	11.9		11.9					
51500100	NAME PLATES	EACH	2		1	1				
M5200225	PREFORMED JOINT STRIP SEAL	METER	65.8			65.8				
52100210	ERECTING ELASTOMERIC BEARING ASSEMBLY, TYPE 1	EACH	21		11	10				
M542E112	PRECAST REINFORCED CONCRETE FLARED END SECTIONS 300MM	EACH	2	2						
M542E116	PRECAST REINFORCED CONCRETE FLARED END SECTIONS 375MM	EACH	4	4						
M542E120	PRECAST REINFORCED CONCRETE FLARED END SECTIONS 450MM	EACH	4	4						
M542E144	PRECAST REINFORCED CONCRETE FLARED END SECTIONS 900MM	EACH	1	1						
M542G055	GRATING FOR CONCRETE FLARED END SECTION 900MM	EACH	1	1						
M542I210	PIPE CULVERTS, TYPE 1 RCCP 375MM	METER	12.3	12.3						
M542I215	PIPE CULVERTS, TYPE 1 RCCP 450MM	METER	23.2	23.2						
M542I240	PIPE CULVERTS, TYPE 1 RCCP 900MM	METER	10.5	10.5						
M5500030	STORM SEWERS, CLASS A, TYPE 1 300MM	METER	15.6	15.6						
M5500040	STORM SEWERS, CLASS A, TYPE 1 375MM	METER	29.2	29.2						
M5500050	STORM SEWERS, CLASS A, TYPE 1 450MM	METER	7.8	7.8						
M5500430	STORM SEWERS, CLASS A, TYPE 2 300MM	METER	39.3	39.3						
M5500440	STORM SEWERS, CLASS A, TYPE 2 375MM	METER	35.5	35.5						
M5500450	STORM SEWERS, CLASS A, TYPE 2 450MM	METER	6.0	6.0						
M5500495	STORM SEWERS, CLASS A, TYPE 2 1050MM	METER	1.6	1.6						
M5500830	STORM SEWERS, CLASS A, TYPE 3 300MM	METER	9.7	9.7						
M5501240	STORM SEWERS, CLASS A, TYPE 4 375MM	METER	3.3	3.3						
⊙ M5504800	STORM SEWERS TO BE CLEANED	METER	312	312						
M5510025	STORM SEWER REMOVAL 300MM	METER	35.4	35.4						

⊙ NON-PARTICIPATING
* SPECIALTY ITEMS

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
ILLINOIS ROUTE 68

SUMMARY OF QUANTITIES - 2

SCALE NTS
DATE OCTOBER, 2006

DRAWN BY RDT
CHECKED BY PK

Rev. 2-21-07

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
343	*	COOK	283	8
STA. 9+713.000		TO STA. 10+151.000		
FED. ROAD DIST. NO. 1		ILLINOIS FED. AID PROJECT		
* 700-Y-B-R & 700B-R-1		62897		

SUMMARY OF QUANTITIES

IL ROUTE 68 @ US 14
IDOT PROJECT # D-91-097-05

ITEM #	ITEM DESCRIPTION	UNIT	QUANTITY							
			URBAN	F	F	BRF	F	F	F	
			80% FED. STATE QUANTITY	ROADWAY J000-2A	STRUCTURE IL 68 OVER US 14 X271-2A	STRUCTURE IL 68 OVER UPRR X171-5B	TRAFFIC SIGNALS Y031-1F	MSE AND RETAINING WALLS Y007	HIGHWAY LIGHTING Y030-1E	VILLAGE OF PALATINE Y031-3D
82102400	LUMINAIRE, SODIUM VAPOR, HORIZONTAL MOUNT, 400 WATT	EACH	4						4	
82102405	GROUND ROD 1/2" DIA. X 2' DIA.	EACH	8						8	
82107100	UNDERPASS LUMINAIRE, 10 WATT, HIGH PRESSURE SODIUM VAPOR	EACH	4						4	
82107200	UNDERPASS LUMINAIRE, 100 WATT, HIGH PRESSURE SODIUM VAPOR	EACH	4						4	
82200560	LIGHTING CONTROLLER TYPE CB-RCS 2.00 AMP - 480VOLT	EACH	1						1	
82304200	LIGHT POLE, ALUMINUM, 12.2M METER, 3.0M MAST ARM	EACH	2						2	
M8307170	LIGHT POLE, WOOD, 9.14 METER, CLASS 4	EACH	2						2	
M8307180	LIGHT POLE, WOOD, 12.19 METER, CLASS 4	EACH	7						7	
M8307390	LIGHT POLE, WOOD, 18.30 METER, CLASS 4	EACH	12						12	
M8307420	LIGHT POLE, WOOD, 18.30 METER, CLASS 4, 4.5 METER MAST ARM	EACH	12						12	
M8360200	LIGHT POLE FOUNDATION, 750MM DIAMETER	METER	26						26	
84200500	REMOVAL OF EXISTING LIGHTING UNIT, SALVAGE	EACH	4						4	
84200740	LIGHTING FOUNDATION REMOVAL	EACH	4						4	
84200800	POLE FOUNDATION, REMOVED	EACH	4						4	
84400105	RELOCATE EXISTING LIGHTING UNIT	EACH	26						26	
84500110	REMOVAL OF LIGHTING CONTROLLER	EACH	1						1	
84500130	REMOVAL OF LIGHTING CONTROLLER FOUNDATION	EACH	1						1	
85700200	FULL-ACTUATED CONTROLLER AND TYPE IV CABINET	EACH	1				1			
85700300	FULL-ACTUATED CONTROLLER AND TYPE V CABINET	EACH	1				1			
85000200	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	2				2			
86000100	MASTER CONTROLLER	EACH	1				1			
86200400	CONTROLLER CABINET TYPE IV	EACH	2				2			
86400100	TRANSCIVER - FIBER OPTIC	EACH	4				4			
M8730800	ELECTRIC CABLE IN TRENCH, SERVICE, NO. 6 2 C	METER	34.4				34.4			
M8731220	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2/C	METER	172.76				172.76			749.44
M8731240	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	METER	1,637				1,637			750.16
M8731251	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 20 3/C TWISTED SHIELDED	METER	1125.24				1125.24			
M8731250	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C	METER	412.5				412.5			
M8731300	ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1 PAIR	METER	1,056.77				1,056.77			
M8750400	TRAFFIC SIGNAL POST, GALVANIZED STEEL 4.85 METER	EACH	4				4			
M8750510	TRAFFIC SIGNAL POST GALVANIZED STEEL 4.85 METER	EACH	2				2			
M8750520	TRAFFIC SIGNAL POST GALVANIZED STEEL 4.85 METER	EACH	2				2			
M8750530	TRAFFIC SIGNAL POST GALVANIZED STEEL 4.85 METER	EACH	2				2			
M8750540	TRAFFIC SIGNAL POST GALVANIZED STEEL 4.85 METER	EACH	2				2			
M8770045	STEEL MAST ARM ASSEMBLY AND POLE, 9.14 METER	EACH	1				1			
M8770055	STEEL MAST ARM ASSEMBLY AND POLE, 10.36 METER	EACH	1				1			
M8770075	STEEL MAST ARM ASSEMBLY AND POLE, 12.80 METER	EACH	1				1			
M8770100	STEEL MAST ARM ASSEMBLY AND POLE, 16.46 METER	EACH	1				1			
M8770170	STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 12.80 METER	EACH	1				1			
M8770240	STEEL MAST ARM ASSEMBLY AND POLE WITH DUAL MAST ARMS, 10.97 METER AND 6.03 METER	EACH	1				1			
M8770250	STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 10.36 METER	EACH	2				2			
M8770560	STEEL MAST ARM ASSEMBLY AND POLE WITH DUAL MAST ARMS, 8.53 METER AND 16.46 METER	EACH	1				1			
M8780100	CONCRETE FOUNDATION, TYPE A	METER	7.2				7.2			
M8780200	CONCRETE FOUNDATION, TYPE B	METER	2.4				2.4			
M8780150	CONCRETE FOUNDATION, TYPE C	METER	2.4				2.4			
M8780200	CONCRETE FOUNDATION, TYPE E 750MM DIAMETER	METER	24.3				24.3			
M8860000	DETECTOR LOOP, PREFORMED	METER	391				391			
87900200	DRILL EXISTING HANDHOLE	EACH	2				2			
88030020	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST-ARM MOUNTED	EACH	18				18			
88030050	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED	EACH	10				10			
88030200	SIGNAL HEAD LED 2-FACE 1-3 SECTION 1-5 BRACKET MOUNTED	EACH	2				2			
88030100	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED	EACH	2				2			
88100200	LIGHT DETECTOR	EACH	2				2			
88030110	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST-ARM MOUNTED	EACH	2				2			
88030300	LIGHT DETECTOR AMPLIFIER	EACH	2				2			
88200110	TRAFFIC SIGNAL BACKPLATE, LOUVERED	EACH	20				20			
88500100	INDUCTIVE LOOP DETECTOR	EACH	14				14			
89502380	REMOVE EXISTING HANDHOLE	EACH	1				1			
MX030199	TEMPORARY PAVEMENT	SQ. M	1,522	1,522						
MX033300	CONDUIT ATTACHED TO STRUCTURE, 25MM DIA. GALVANIZED STEEL, PVC COATED	METER	92						92	
MX032178	TEMPORARY INFORMATION SIGNING	SQ. M	24	24						
82106400	LUMINAIRE, SODIUM VAPOR, HORIZONTAL MOUNT, 400 WATT (INSTALL ONLY)	EACH	14						14	
MX033300	CONDUIT ATTACHED TO STRUCTURE 65MM DIA. GALVANIZED STEEL, PVC COATED	METER	27						27	
MX030200	CONDUIT ATTACHED TO STRUCTURE 65MM DIA. GALVANIZED STEEL, PVC COATED	METER	28						28	
MX030200	CONDUIT ATTACHED TO STRUCTURE 75MM DIA. GALVANIZED STEEL, PVC COATED	METER	22						22	
84502375	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	2				2			

*SPECIALTY ITEMS

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REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
ILLINOIS ROUTE 68

SUMMARY OF QUANTITIES - 5

SCALE NTS
DATE OCTOBER, 2006
DRAWN BY RDT
CHECKED BY PK

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
343		COOK	283	9
STA. 9+713.000		TO STA. 10+151.000		
FED. ROAD DIST. NO. 1		ILLINOIS FED. AID PROJECT		
• 70D-Y-B-R & 70HB-R-1		62897		

SUMMARY OF QUANTITIES										
IL ROUTE 68 @ US 14										
IDOT PROJECT # D-91-097-05										
ITEM #	ITEM DESCRIPTION	UNIT	URBAN EST. STATE QUANTITY	F ROADWAY JOCO-2A	F STRUCTURE IL 68 OVER US 14 X271-2A	F STRUCTURE IL 68 OVER IJRR X171-5B	F TRAFFIC SIGNALS Y031-1F	F USE AND RETAINING WALLS Y007	F HIGHWAY LIGHTING Y030-1E	F VILLAGE OF PALATINE 100% VILLAGE
MX032761	ELECTRICAL HANDHOLE, 600MM DIAMETER WITH 600MM FRAME AND LID	EACH	1							
MX032819	ELECTRIC CABLE IN CONDUIT, TRACER, NO. 14 1C	METER	1,027				1,027			
MX033276	TEMPORARY SOIL RETENTION SYSTEM	SQ M	218			218				
MX033305	EMERGENCY VEHICLE PRIORITY SYSTEM LINE BEACON CABLE, NO. 20 3/C	METER	374.72							374.72
MX033306	EMERGENCY VEHICLE PRIORITY SYSTEM LINE SENSOR CABLE, NO. 20 3/C	METER	375.08							375.08
MX033445	DRILLING AND SETTING SOLDIER PILES (IN SOIL)	CU M	249.6					249.6		
MX042010	REMOVE EXISTING CONDUIT ATTACHED TO STRUCTURE	METER	110						110	
MX871055	FIBER OPTIC CABLE IN CONDUIT, NO. 62.5/125, MM12F SM12F	METER	1,027				1,027			
MX873027	ELECTRIC CABLE IN CONDUIT, GROUNDING, NO. 6 1C	METER	447.4				447.4			
MX878030	CONCRETE FOUNDATION, TYPE F 900MM DIAMETER	METER	13.2				13.2			
MZ001050	AGGREGATE SUBGRADE 300MM	SQ M	17,912	17,912						
MZ022800	FENCE REMOVAL	METER	76	76						
MZ031105	MECHANICALLY STABILIZED EARTH RETAINING WALL	SQ M	1012		287	726				
MZ031106	TEMPORARY MECHANICALLY STABILIZED EARTH RETAINING WALL	SQ M	310		61	255				
Z0001900	ASBESTOS BEARING PAD REMOVAL	EACH	1							
Z0007601	BUILDING REMOVAL NO. 1	L SUM	1	1						
Z0007602	BUILDING REMOVAL NO. 2	L SUM	1	1						
Z0013798	CONSTRUCTION LAYOUT	L SUM	1	1						
Z0018500	DRAINAGE STRUCTURES TO BE CLEANED	EACH	22	22						
Z0018801	DRAINAGE SYSTEM NO. 1	EACH	1		1					
Z0018802	DRAINAGE SYSTEM NO. 2	EACH	1			1				
Z0018900	DRILL AND GROUT DOWEL BARS	EACH	128	128						
Z0030250	IMPACT ATTENUATORS, TEMPORARY (NON- REDIRECTIVE), TEST LEVEL 3	EACH	12	12						
Z0030350	IMPACT ATTENUATORS, RELOCATE (NON- REDIRECTIVE), TEST LEVEL 3	EACH	5	5						
Z0048665	RAILROAD PROTECTIVE LIABILITY INSURANCE	L SUM	1	1						
Z0048801	REMOVAL AND DISPOSAL OF FRIABLE ASBESTOS, BUILDING NO. 1	L SUM	1	1						
Z0048802	REMOVAL AND DISPOSAL OF FRIABLE ASBESTOS, BUILDING NO. 2	L SUM	1	1						
Z0048901	REMOVAL AND DISPOSAL OF NON-FRIABLE ASBESTOS, BUILDING NO. 1	L SUM	1	1						
Z0048902	REMOVAL AND DISPOSAL OF NON-FRIABLE ASBESTOS, BUILDING NO. 2	L SUM	1	1						
Z0050000	REMOVAL AND REINSTALLATION OF EXISTING IMPACT ATTENUATORS	EACH	2	2						
Z0076000	TRAINERS	HOUR	1000	1000						
X0301023	CONFIRMATION BEACON	EACH	4							4
X0322424	TEMPORARY UNDERPASS LIGHTING INSTALLATION AND REMOVAL	L SUM	1						1	
X0323157	REMOVE LUMINAIRE FROM UNDERPASS	EACH	4						4	
X0323412	REMOVE EXISTING SERVICE INSTALLATION	EACH	1						1	
X0323574	MAINTENANCE OF LIGHTING SYSTEM	CAL MO	9						9	
X0323082	DRAINAGE SCUPPERS, DS-33	EACH	1			1				
X0324387	LUMINAIRE SAFETY CABLE ASSEMBLY	EACH	44						44	
X0323830	DRAINAGE SCUPPERS, DS-11	EACH	3			4				
X4021000	TEMPORARY ACCESS (PRIVATE ENTRANCE)	EACH	1	1						
X4022000	TEMPORARY ACCESS (COMMERCIAL ENTRANCE)	EACH	1	1						
X6700410	ENGINEER'S FIELD OFFICE, TYPE A (SPECIAL)	CAL MO	10	10						
X8050015	SERVICE INSTALLATION - POLE MOUNTED	EACH	2						2	
X8180110	REMOVE TEMPORARY LIGHTING UNITS	EACH	1						1	
X8180110	MAINTENANCE OF TEMPORARY LIGHTING SYSTEM	L SUM	2						2	
X8780110	MODIFY EXISTING TYPE "D" FOUNDATION	EACH	2						2	
XX001017	REMOVE RIGHT-OF-WAY MARKERS	EACH	6	6						
XX002856	RE OPTIMIZE TRAFFIC SIGNAL SYSTEM	L SUM	1							
XX003162	EMERGENCY VEHICLE PRIORITY SYSTEM DETECTOR UNIT	EACH	4							4
XX003503	FLARED END SECTION REMOVAL	EACH	1	1						
XX025016	OPTIMIZE TRAFFIC SIGNAL SYSTEM	L SUM	1							
XX033723	ERECTING PRECAST PRESTRESSED CONCRETE DECK BEAM, (686MM DEPTH)	SQ M	10.58			10.58				

WEIGHT OF STEEL= 348580KG ● Y080
 ○ NON-PARTICIPATING
 △ SFTY-3N
 * SPECIALTY ITEMS

REVISIONS		ILLINOIS DEPARTMENT OF TRANSPORTATION ILLINOIS ROUTE 68
NAME	DATE	
		SUMMARY OF QUANTITIES - 6
		SCALE NTS
		DRAWN BY RDT
		DATE OCTOBER, 2006
		CHECKED BY PK

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 Rev.

CORRUGATED MEDIAN

LOCATION	AREA (SQ. M.)
IL ROUTE 68 10+135.000 TO 10+203.000	255

CORRUGATED MEDIAN, TOTAL = 255 SQ. M

STEEL PLATE BEAM GUARDRAIL, TYPE A

LOCATION	LENGTH (METER)	GUARDRAIL MARKERS, TYPE A (EACH)
IL ROUTE 68		
9+701.810 TO 9+732.010 LT	30.4	2
9+845.011 TO 9+859.411 LT	15.2	2
9+845.011 TO 9+882.711 RT	34.2	2
TO 9+964.286 LT	22.8	2
TO 9+963.475 LT	15.8	1
TO 9+980.806 RT	26.6	2
10+023.463 TO RAMP D LT	45.6	3
10+039.644 TO RAMP C RT	18.1	2
RAMP A		
0+201.550 TO 0+311.682 RT	113.4	4
RAMP C		
0+145.000 TO 0+288.100 LT	194.7	9
0+194.403 TO 0+268.152 RT	76.0	6
RAMP B		
0+37.535 TO 0+303.535 RT	266	13

STEEL PLATE BEAM GUARDRAIL, TYPE A, TOTAL = 858.8 METER

GUARDRAIL MARKERS, TYPE A, TOTAL = 48 EACH

STEEL PLATE BEAM GUARDRAIL, TYPE D

LOCATION	LENGTH (METER)	GUARDRAIL MARKERS, TYPE A (EACH)
RAMP A		
0+123.550 TO 0+201.550 RT	79.8	6

STEEL PLATE BEAM GUARDRAIL, TYPE D, TOTAL = 79.8 METER

GUARDRAIL MARKERS, TYPE A, TOTAL = 6 EACH

TRAFFIC BARRIER TERMINAL TYPE 1, SPECIAL (TANGENT)

LOCATION	EACH	TERMINAL MARKER - DIRECT APPLIED (EACH)
IL ROUTE 68		
9+732.010 LT	1	1
9+829.811 LT	1	1
9+829.811 RT	1	1
RAMP A		
0+270.478 LT	1	1
RAMP C		
0+195.444 RT	1	1

TRAFFIC BARRIER TERMINAL TYPE 1, SPECIAL (TANGENT), TOTAL = 5 EACH

TERMINAL MARKER - DIRECT APPLIED, TOTAL = 5 EACH

TRAFFIC BARRIER TERMINAL TYPE 2

LOCATION	EACH
RAMP B	
0+045.490 LT	1
RAMP C	
0+269.750 RT	1
RAMP D	
0+050.370 LT	1

3 EACH

TRAFFIC BARRIER TERMINAL TYPE 6

LOCATION	EACH
IL ROUTE 68	
9+868.966 LT	1
9+886.487 RT	1
9+913.770 LT	1
9+913.811 LT	1
9+990.331 RT	1
10+013.938 LT	1
10+030.119 RT	1
RAMP B	
0+028.010 RT	1

8 EACH

CHAIN LINK FENCE, 1.2M

LOCATION	LENGTH (METER)
IL ROUTE 68	
RT	71

CHAIN LINK FENCE, 1.2M, TOTAL = 71 METER

CONCRETE BARRIER SINGLE FACE 815MM HEIGHT

LOCATION	LENGTH (METER)
RAMP B	
0+008.312 TO 0+028.010 RT	22.8

CONCRETE BARRIER SINGLE FACE 815MM HEIGHT, TOTAL = 22.8 METER

BITUMINOUS BASE COURSE SUPERPAVE, 150MM

LOCATION	AREA (SQ. M.)
IL ROUTE 68	
9+747.596 LT	44

BITUMINOUS BASE COURSE SUPERPAVE, 150MM, TOTAL = 44 SQ. M.

BITUMINOUS BASE COURSE SUPERPAVE, 200MM

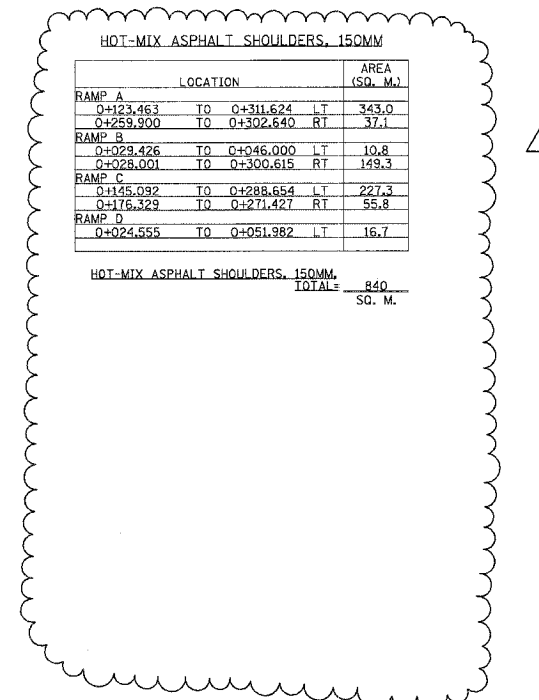
LOCATION	AREA (SQ. M.)
ACCESS DRIVE (RAMP C)	
0+146.323 TO 0+231.177 RT	328

BITUMINOUS BASE COURSE SUPERPAVE, 200MM, TOTAL = 328 SQ. M.

BITUMINOUS CONCRETE SURFACE COURSE, SUPERPAVE, MIX D, N70

LOCATION	AREA (SQ. M.)	AVG DEPTH (MM)	QUANTITY (M TON)
IL ROUTE 68			
9+538.000 TO 9+713.000	168	50	20.2
10+151.000 TO 10+165.000	219	50	25.3
ACCESS DRIVE	327.5	50	39.3
DRIVEWAY AT 9+747.596 LT	44.3	50	5.3

BITUMINOUS CONCRETE SURFACE COURSE, SUPERPAVE, MIX D, N70, TOTAL = 91.1 M TONS



SEEDING AND SODDING QUANTITIES

LOCATION	SODDING, SALT TOLERANT AREA (SQ. M.)	SEEDING, CLASS 2A (WITH MULCH, METHOD 1) AREA (HECTARE)	SEEDING, CLASS 4 (WITH EROSION CONTROL BLANKET) AREA (HECTARE)
IL ROUTE 68			
9+713.000 TO 9+900.000 LT	849	0.00	0.00
9+713.000 TO 9+900.000 RT	707	0.00	0.00
9+900.000 TO 10+151.000 LT	70	0.02	0.00
9+900.000 TO 10+151.000 RT	83	0.00	0.00
10+063.000 TO 10+134.000 MEDIAN	424	0.00	0.00
RAMP A			
0+125.000 TO 0+275.000 LT	0	0.00	0.08
0+125.000 TO 0+275.000 RT	0	0.04	0.00
0+275.000 TO 0+311.000 LT	0	0.00	0.04
0+275.000 TO 0+305.000 RT	0	0.03	0.00
RAMP B			
0+001.500 TO 0+100.000 RT	0	0.00	0.08
0+030.000 TO 0+100.000 LT	0	0.04	0.00
0+100.000 TO 0+300.600 RT	0	0.00	0.28
0+100.000 TO 0+193.900 LT	0	0.06	0.00
RAMP C			
0+061.000 TO 0+250.000 RT	176	0.07	0.00
0+115.000 TO 0+250.000 LT	0	0.05	0.00
0+250.000 TO 0+275.000 RT	80	0.02	0.00
0+250.000 TO 0+295.000 LT	0	0.04	0.00
RAMP D			
0+050.000 TO 0+187.000 LT	577	0.06	0.00
0+050.000 TO 0+308.500 RT	1292	0.00	0.00
SUBTOTAL	4258	0.5	0.5

SODDING, TOTAL = 4,258 SQ. M.

SEEDING, TOTAL = 1.0 HECTARE

SUPPLEMENTAL WATERING, TOTAL = 553.5 UNITS

MATERIAL	QUANTITY	UNIT
M2500400 NITROGEN FERTILIZER NUTRIENT	130	KILOGRAM
M2500500 PHOSPHORUS FERTILIZER NUTRIENT	130	KILOGRAM
M2500600 POTASSIUM FERTILIZER NUTRIENT	130	KILOGRAM
M2113100 TOPSOIL FURNISH AND PLACE, 100MM	13,833	SQ. M
M2113300 TOPSOIL FURNISH AND PLACE, 300MM	424	SQ. M

FERTILIZER IS APPLIED AT RATE OF 100KG/HECTARE OF SEEDING AND 70KG/HECTARE OF SODDING
 SUPPLEMENTAL WATERING IS APPLIED AT RATE 25 LITERS PLUS 7*15 LITERS PER SQM OF SODDING

DRILL AND GROUT DOWEL BARS

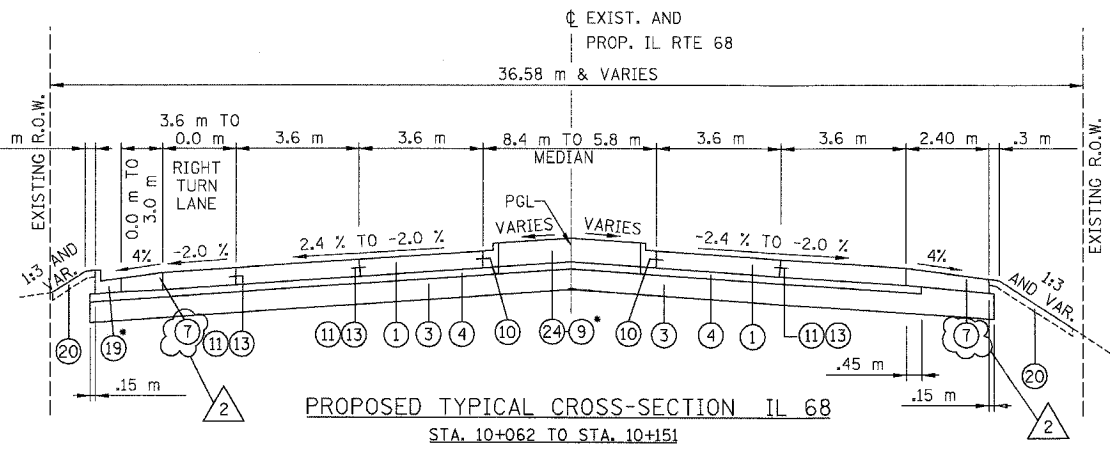
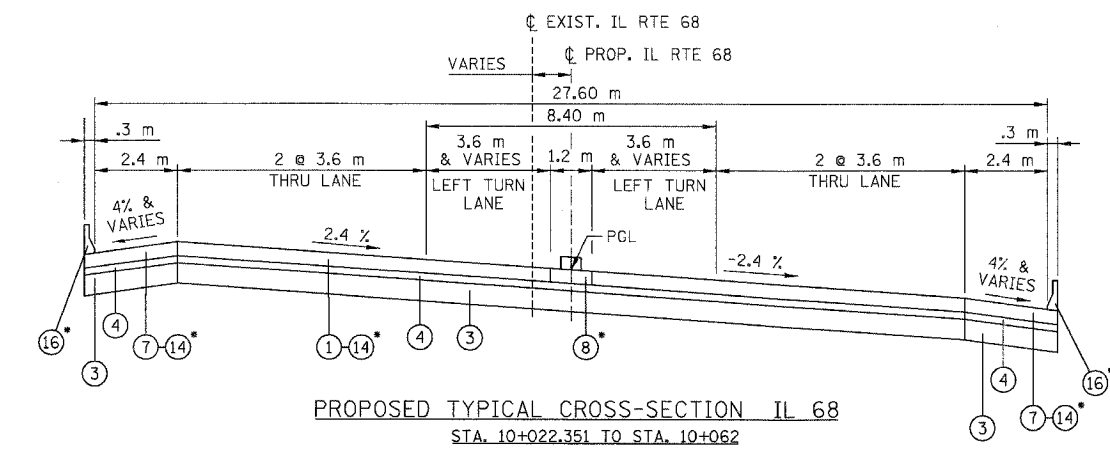
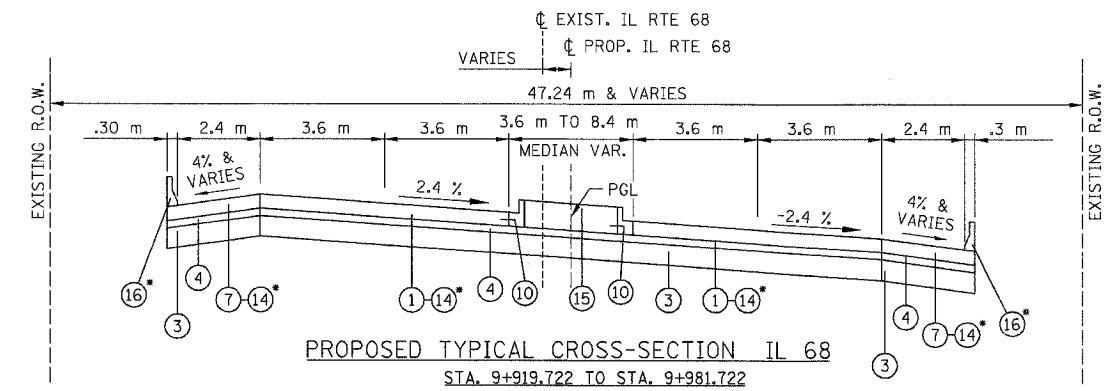
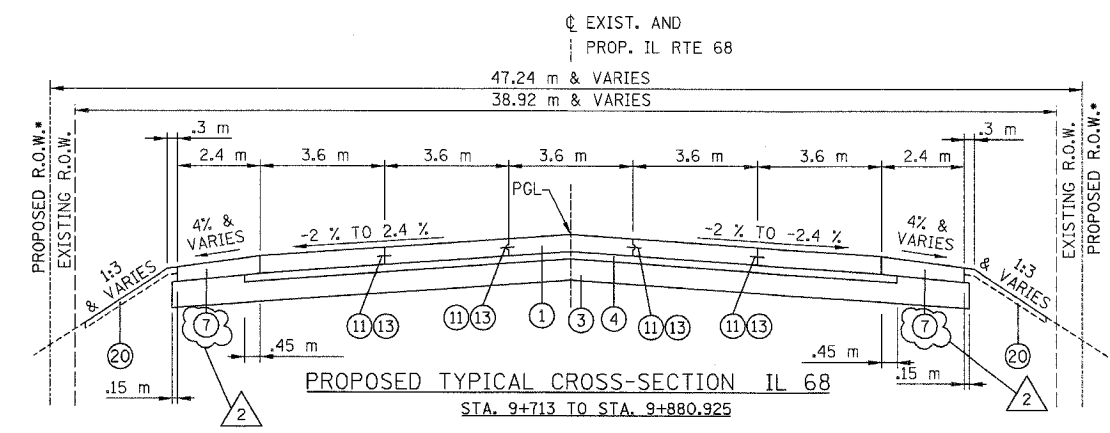
LOCATION	UNIT (EACH)
IL ROUTE 68	
10+135.000 TO 10+203.000 LT	64
10+135.000 TO 10+203.000 RT	64

DRILL AND GROUT DOWEL BARS, TOTAL = 128 EACH

REV. 2-15-07

REVISIONS		ILLINOIS DEPARTMENT OF TRANSPORTATION ILLINOIS ROUTE 68
NAME	DATE	
		SCHEDULE OF QUANTITIES ROADWAY - 2
		SCALE NTS
		DATE OCTOBER, 2006
		DRAWN BY RDT
		CHECKED BY PK

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
343		COOK	283	19
STA. 9+713.000		TO STA. 10+151.000		
FED. ROAD DIST. NO. 1		ILLINOIS	FED. AID PROJECT	
70D-Y-B-R & 70HB-R-1		62897		



NOTE:
THE FOLLOWING KEY ITEMS IN THE LEGEND ARE INTERPRETED AS FOLLOWS:

④ STABILIZED SUBBASE-HOT-MIX ASPHALT, 115 mm
 ⑤ NOT USED
 ⑦ HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N70
 ⑧ HOT-MIX ASPHALT BASE COURSE, 200 mm

- LEGEND:**
- ① PORTLAND CEMENT CONCRETE PAVEMENT, 260 mm (JOINTED)
 - ② NOT USED
 - ③ AGGREGATE SUBGRADE 300 mm
 - ④ STABILIZED SUB-BASE 115 mm
 - ⑤ NOT USED
 - ⑥ NOT USED
 - ⑦ PCC SHOULDER, 260 mm
 - ⑧ CONCRETE MEDIAN, TYPE SB-15.30 (MODIFIED), (SEE BRIDGE PLANS AND STD. 606301)
 - ⑨ CORRUGATED PC CONCRETE MEDIAN (STD 606306)
 - ⑩ #6 TIE BARS, 600mm LONG @ 600mm O.C. INCIDENTAL TO P.C.C. PAVEMENT (JOINTED)
 - ⑪ LONGITUDINAL CONSTRUCTION JOINT GROUTED-IN-PLACE TIE BAR NO. 8x500mm LONG DEFORMED TIE BARS (EPOXY COATED) @ 600mm O.C. (STANDARD 420001) INCLUDED IN THE COST OF PAVEMENT.
 - ⑫ LONGITUDINAL SAWED JOINT NO. 6x750mm LONG DEFORMED TIE BAR (EPOXY COATED) @ 750mm O.C. (STD. 420001 INCLUDED IN THE COST OF PAVEMENT)
 - ⑬ AT THE CONTRACTORS OPTION A LONGITUDINAL SAWED JOINT ⑫ MAY BE USED
 - ⑭ P.C.C. CONCRETE DECK 195 mm (SEE BRIDGE PLANS)
 - ⑮ CONCRETE MEDIAN, TYPE SB-15.45 (MODIFIED), (SEE BRIDGE PLANS AND STD.606301)
 - ⑯ CONCRETE PARAPET "F" SHAPE (SEE BRIDGE PLANS)
 - ⑰ BITUMINOUS CONCRETE SURFACE, SUPERPAVE, MIX "D", N70.
 - ⑱ BITUMINOUS BASE COURSE, SUPERPAVE 200 mm
 - ⑲ COMBINATION CONCRETE CURB AND GUTTER, TYPE B-15.60
 - ⑳ TOPSOIL FURNISH AND PLACE 100 mm. SODDING, SALT TOLERANT OR SEEDING (SEE LANDSCAPING PLANS)
 - ㉑ RETAINING WALL (SEE STRUCTURAL PLANS)
 - ㉒ TYPE B GUTTER
 - ㉓ COMBINATION CONCRETE CURB AND GUTTER, TYPE B-15.30
 - ㉔ LANDSCAPED MEDIAN (SEE PLANS FOR DETAILS)
- SEE PLANS FOR LOCATION

STRUCTURAL PAVEMENT DESIGN INFORMATION

STRUCTURAL DESIGN TRAFFIC:	YEAR <u>2017</u>
PV= <u>20,871</u>	SU= <u>1,158</u> MU= <u>949</u>
ROAD/STREET CLASSIFICATION:	Class <u>1</u>
PERCENT OF STRUCTURAL DESIGN TRAFFIC IN DESIGN LANE:	P= <u>50%</u> S= <u>50%</u> M= <u>50%</u>
TRAFFIC FACTOR:	Actual TF= <u>8.31</u> AC Type= <u>N/A</u>
	Minimum TF= <u>6.7</u>
PG GRADE: Binder= <u>N/A</u>	Surface= <u>N/A</u>
SUBGRADE SUPPORT RATING:	SSR= <u>POOR</u>

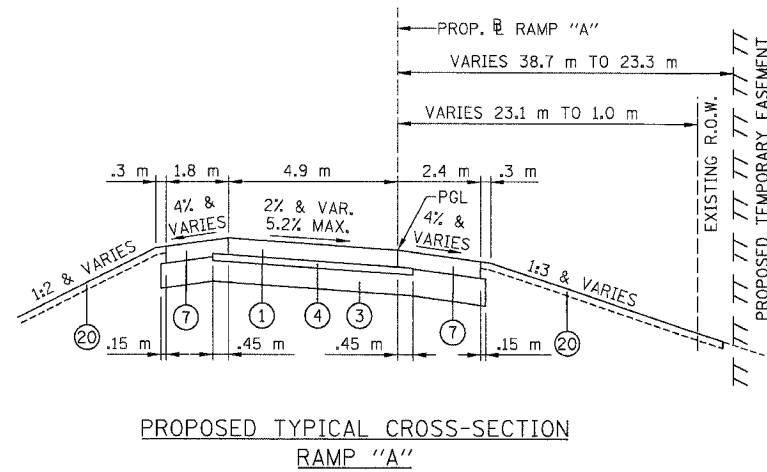
BOXED ITEMS ARE INCIDENTAL TO OTHER PAY ITEMS.

REVISIONS		ILLINOIS DEPARTMENT OF TRANSPORTATION ILLINOIS ROUTE 68
NAME	DATE	
		PROPOSED TYPICAL SECTIONS ILLINOIS ROUTE 68 SCALE NTS DATE OCTOBER, 2006

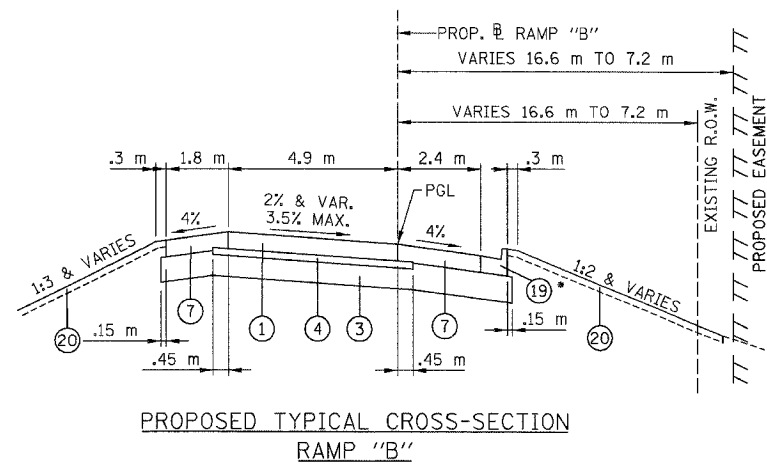
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CHECKED BY PK

2 REV. 2-15-07

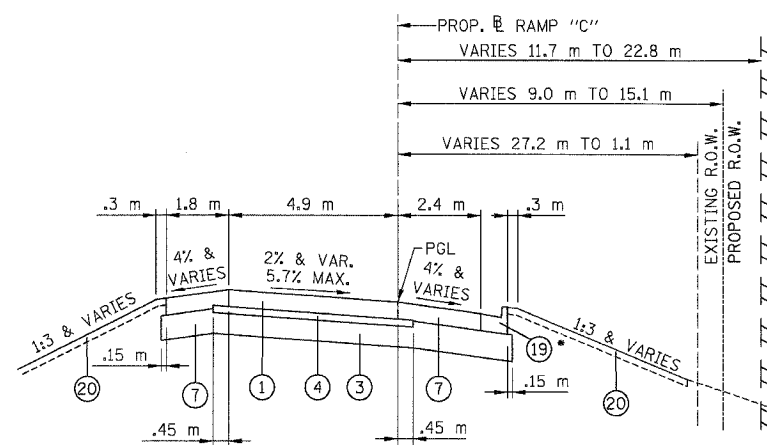
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
343	*	COOK	283	20
STA. 9+713.000		TO STA. 10+151.000		
FED. ROAD DIST. NO. 1		ILLINOIS		FED. AID PROJECT
* 70D-Y-B-R & 70HB-R-1		62897		



PROPOSED TYPICAL CROSS-SECTION
RAMP "A"



PROPOSED TYPICAL CROSS-SECTION
RAMP "B"



PROPOSED TYPICAL CROSS-SECTION
RAMP "C"

* STA 0+250.000 TO STA 0+300.612
** SEE PLANS FOR LOCATION

* STA 0+061.043 TO STA 0+176.329
** SEE PLANS FOR LOCATION

NOTE:

THE FOLLOWING KEY ITEMS IN THE LEGEND ARE INTERPRETED AS FOLLOWS:

- ④ STABILIZED SUBBASE-HOT-MIX ASPHALT, 115 mm
- ⑤ NOT USED
- ⑦ HOT-MIX ASPHALT SURFACE COUSE, MIX "D", N70
- ⑧ HOT-MIX ASPHALT BASE COURSE, 200 mm

LEGEND:

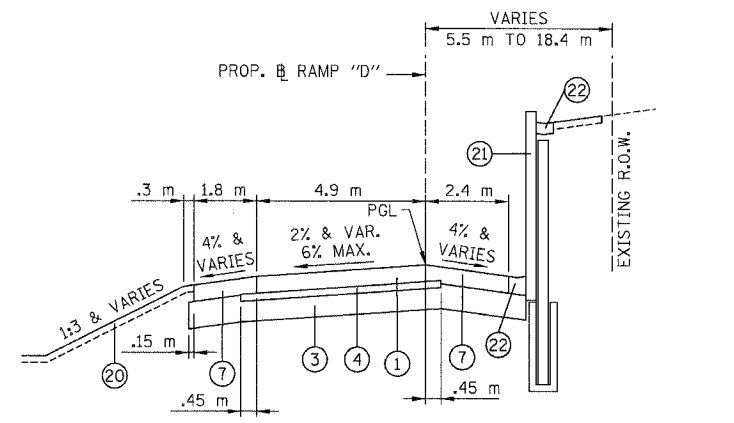
- ① PORTLAND CEMENT CONCRETE PAVEMENT, 260 mm (JOINTED)
- ② NOT USED
- ③ AGGREGATE SUBGRADE 300 mm
- ④ STABILIZED SUB-BASE 115 mm
- ⑤ NOT USED
- ⑥ NOT USED
- ⑦ PCC SHOULDER, 260 mm
- ⑧ CONCRETE MEDIAN, TYPE SB-15.30 (MODIFIED), (SEE BRIDGE PLANS AND STD. 606301)
- ⑨ CORRUGATED PC CONCRETE MEDIAN (STD 606306)
- ⑩ #6 TIE BARS, 600mm LONG @ 600mm O.C. INCIDENTAL TO P.C.C. PAVEMENT (JOINTED)
- ⑪ LONGITUDINAL CONSTRUCTION JOINT GROUDED-IN-PLACE TIE BAR NO. 8x500mm LONG DEFORMED TIE BARS (EPOXY COATED) @ 600mm O.C. (STANDARD 420001) INCLUDED IN THE COST OF PAVEMENT.
- ⑫ LONGITUDINAL SAWED JOINT NO. 6x750mm LONG DEFORMED TIE BAR (EPOXY COATED) @ 750mm O.C. (STD. 420001 INCLUDED IN THE COST OF PAVEMENT)
- ⑬ AT THE CONTRACTORS OPTION A LONGITUDINAL SAWED JOINT ⑫ MAY BE USED
- ⑭ P.C.C. CONCRETE DECK 195 mm (SEE BRIDGE PLANS)
- ⑮ CONCRETE MEDIAN, TYPE SB-15.45 (MODIFIED), (SEE BRIDGE PLANS AND STD.606301)
- ⑯ CONCRETE PARAPET "F" SHAPE (SEE BRIDGE PLANS)
- ⑰ BITUMINOUS CONCRETE SURFACE, SUPERPAVE, MIX "D", N70.
- ⑱ BITUMINOUS BASE COURSE, SUPERPAVE 200 mm
- ⑲ COMBINATION CONCRETE CURB AND GUTTER, TYPE B-15.60
- ⑳ TOPSOIL FURHISH AND PLACE, 100 mm. SODDING, SALT TOLERANT OR SEEDING (SEE LANDSCAPING PLANS)
- ㉑ RETAINING WALL (SEE STRUCTURAL PLANS)
- ㉒ TYPE B GUTTER
- ㉓ COMBINATION CONCRETE CURB AND GUTTER, TYPE B-15.30
- ㉔ LANDSCAPED MEDIAN (SEE PLANS FOR DETAILS)

BOXED ITEMS ARE INCIDENTAL TO OTHER PAY ITEMS.

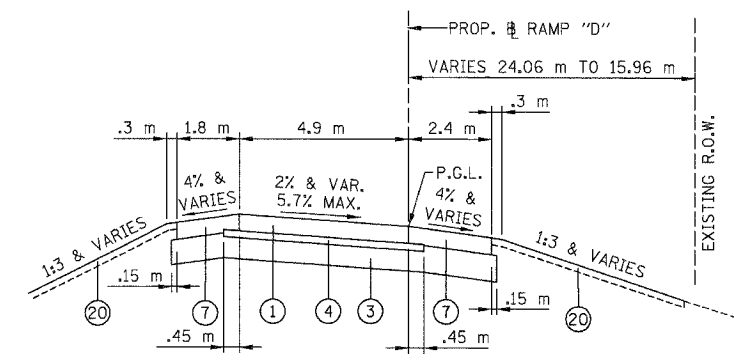
REVISIONS		ILLINOIS DEPARTMENT OF TRANSPORTATION ILLINOIS ROUTE 68	
NAME	DATE		
		PROPOSED TYPICAL SECTIONS RAMPS	
		SCALE NTS	DRAWN BY GRH
		DATE OCTOBER, 2006	CHECKED BY PK

2 REV. 2-15-07

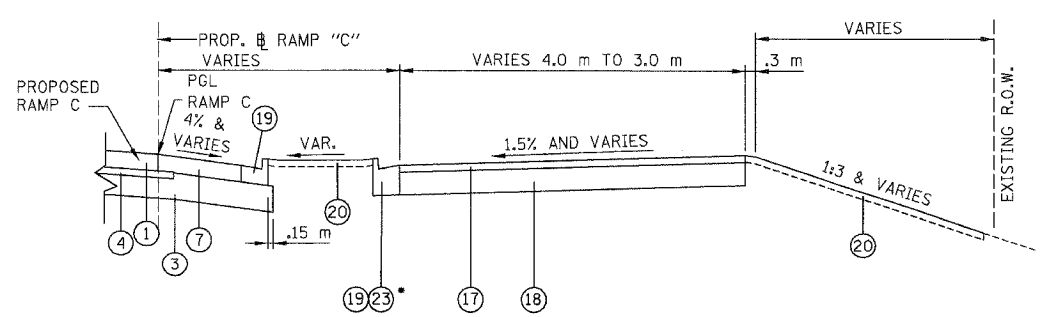
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
343		COOK	283	21
STA. 9+713.000		TO STA. 10+151.000		
FED. ROAD DIST. NO. 1		ILLINOIS FED. AID PROJECT		
• 70D-Y-B-R & 70HB-R-1		62897		



PROPOSED TYPICAL CROSS-SECTION
RAMP "D"
STA. 0+072 TO STA. 0+179



PROPOSED TYPICAL CROSS-SECTION
RAMP "D"
STA. 0+000 TO STA. 0+072
STA. 0+179 TO STA. 0+308



PROPOSED TYPICAL CROSS-SECTION
ACCESS DRIVE

• SEE PLANS FOR LOCATION

NOTE:

THE FOLLOWING KEY ITEMS IN THE LEGEND ARE INTERPRETED AS FOLLOWS:

- ④ STABILIZED SUBBASE-HOT-MIX ASPHALT, 115 mm
- ⑤ NOT USED
- ⑦ HOT-MIX ASPHALT SURFACE COUSE, MIX "D", N70
- ⑧ HOT-MIX ASPHALT BASE COURSE, 200 mm

LEGEND:

- ① PORTLAND CEMENT CONCRETE PAVEMENT, 260 mm (JOINTED)
- ② NOT USED
- ③ AGGREGATE SUBGRADE 300 mm
- ④ STABILIZED SUB-BASE 115 mm
- ⑤ NOT USED
- ⑥ NOT USED
- ⑦ PCC SHOULDER, 260 mm
- ⑧ CONCRETE MEDIAN, TYPE SB-15.30 (MODIFIED), (SEE BRIDGE PLANS AND STD. 606301)
- ⑨ CORRUGATED PC CONCRETE MEDIAN (STD 606306)
- ⑩ #6 TIE BARS, 600mm LONG @ 600mm O.C. INCIDENTAL TO P.C.C. PAVEMENT (JOINTED)
- ⑪ LONGITUDINAL CONSTRUCTION JOINT GROUTED-IN-PLACE TIE BAR NO. 8x500mm LONG DEFORMED TIE BARS (EPOXY COATED) @ 600mm O.C. (STANDARD 420001) INCLUDED IN THE COST OF PAVEMENT.
- ⑫ LONGITUDINAL SAWED JOINT NO. 6x750mm LONG DEFORMED TIE BAR (EPOXY COATED) @ 750mm O.C. (STD. 420001 INCLUDED IN THE COST OF PAVEMENT)
- ⑬ AT THE CONTRACTORS OPTION A LONGITUDINAL SAWED JOINT ⑫ MAY BE USED
- ⑭ P.C.C. CONCRETE DECK 195 mm (SEE BRIDGE PLANS)
- ⑮ CONCRETE MEDIAN, TYPE SB-15.45 (MODIFIED), (SEE BRIDGE PLANS AND STD.606301)
- ⑯ CONCRETE PARAPET "F" SHAPE (SEE BRIDGE PLANS)
- ⑰ BITUMINOUS CONCRETE SURFACE, SUPERPAVE, MIX "D", N70.
- ⑱ BITUMINOUS BASE COURSE, SUPERPAVE 200 mm
- ⑲ COMBINATION CONCRETE CURB AND GUTTER, TYPE B-15.60
- ⑳ TOPSOIL FURNISH AND PLACE, 100 mm. SODDING, SALT TOLERANT OR SEEDING (SEE LANDSCAPING PLANS)
- ㉑ RETAINING WALL (SEE STRUCTURAL PLANS)
- ㉒ TYPE B GUTTER
- ㉓ COMBINATION CONCRETE CURB AND GUTTER, TYPE B-15.30
- ㉔ LANDSCAPED MEDIAN (SEE PLANS FOR DETAILS)

BOXED ITEMS ARE INCIDENTAL TO OTHER PAY ITEMS.

REVISIONS		ILLINOIS DEPARTMENT OF TRANSPORTATION ILLINOIS ROUTE 68	
NAME	DATE		
		PROPOSED TYPICAL SECTIONS RAMPS AND ACCESS ROAD	
		SCALE NTS	DRAWN BY GRH
		DATE OCTOBER, 2006	CHECKED BY PK

REV. 2-15-07

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
343	*	COOK	283	27
STA. 9+713.000 TO STA. 10+151.000				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				
* 70D-Y-B-R & 70HB-R-1 62897				

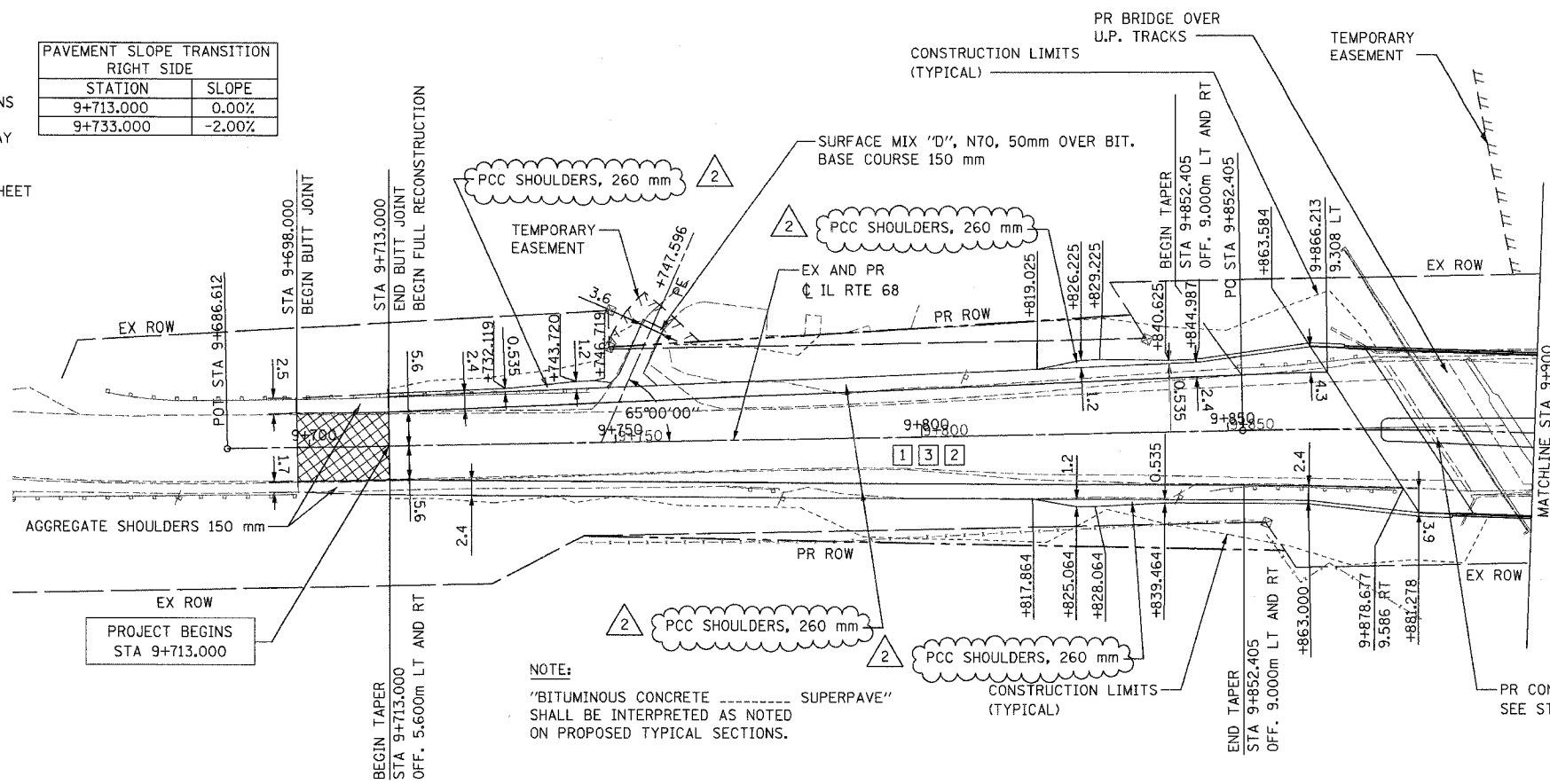
NOTES:

- ALL DIMENSIONS ARE IN METERS (m) UNLESS OTHERWISE NOTED
- FOR BRIDGE INFORMATION SEE STRUCTURAL PLANS
- FOR TRANSITION OF THE RIGHT SIDE OF ROADWAY FROM SUPERELEVATED EXISTING CONDITION TO NORMAL CROWN PROPOSED CONDITION, AT THE BEGINNING OF THE PROJECT, SEE TABLE THIS SHEET
- FOR PROPOSED GUARDRAIL LOCATIONS SEE PAVEMENT MARKING AND LANDSCAPING PLANS
- FOR PROPOSED FENCE SEE PAVEMENT MARKING AND LANDSCAPING PLANS
- FOR MORE SUPERELEVATION INFORMATION SEE SUPERELEVATION TRANSITION DETAIL
- FOR MORE BUTT JOINT INFORMATION SEE BUTT JOINT DETAILS.

PAVEMENT SLOPE TRANSITION RIGHT SIDE	
STATION	SLOPE
9+713.000	0.00%
9+733.000	-2.00%

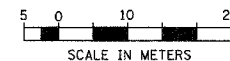
LEGEND:

- 1 PCC PAVEMENT, 260 mm (JOINTED)
- 2 AGGREGATE SUBGRADE 300 mm
- 3 STABILIZED SUB-BASE 115 mm



NOTE:
"BITUMINOUS CONCRETE SUPERPAVE"
SHALL BE INTERPRETED AS NOTED
ON PROPOSED TYPICAL SECTIONS.

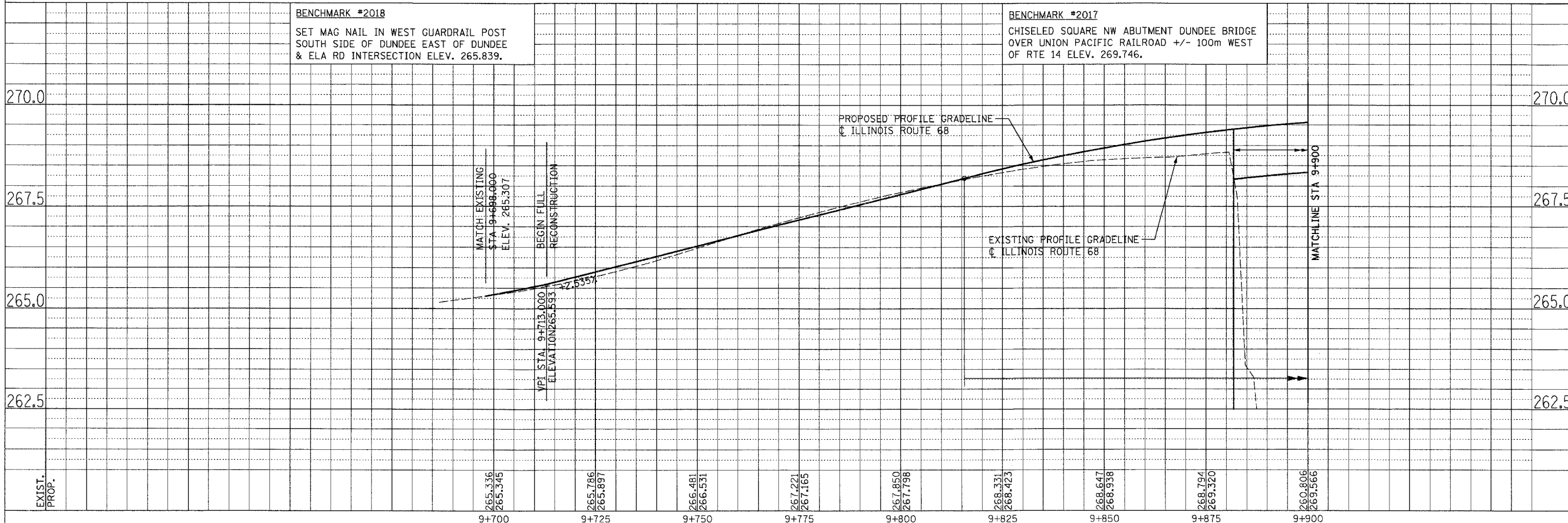
PROP. CURVE 68_CURVE.1
 PI STA = 9+966.854
 $\Delta = 14^\circ 54' 14''$ (RT)
 R = 875.000 m
 T = 114.450 m
 L = 227.607 m
 E = 7.453 m
 $e = 2.4\%$
 T.R. = 27.500 m
 S.E. RUN. = 33.000 m
 P.C. STA = 9+852.405
 P.T. STA = 10+080.012



2 REV 2-15-07

PLAN	SURVEYED	DATE
	BY	
	NO. _____	
	RT. OF WAY CHECKED	
	CADD FILE NAME	

PROFILE	SURVEYED	DATE
	BY	
	NO. _____	
	GRADES CHECKED	
	B.M. NOTED	
	STRUCTURE NOTATIONS CHKD	



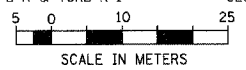
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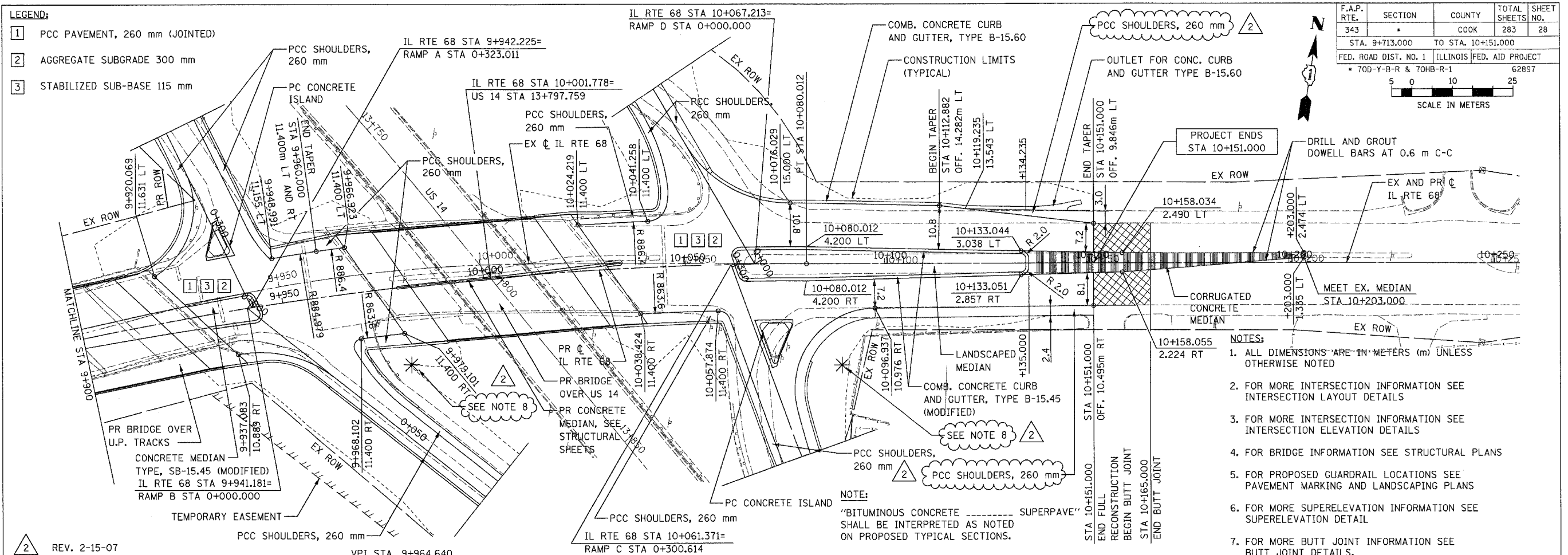
LEGEND:

- 1 PCC PAVEMENT, 260 mm (JOINTED)
- 2 AGGREGATE SUBGRADE 300 mm
- 3 STABILIZED SUB-BASE 115 mm

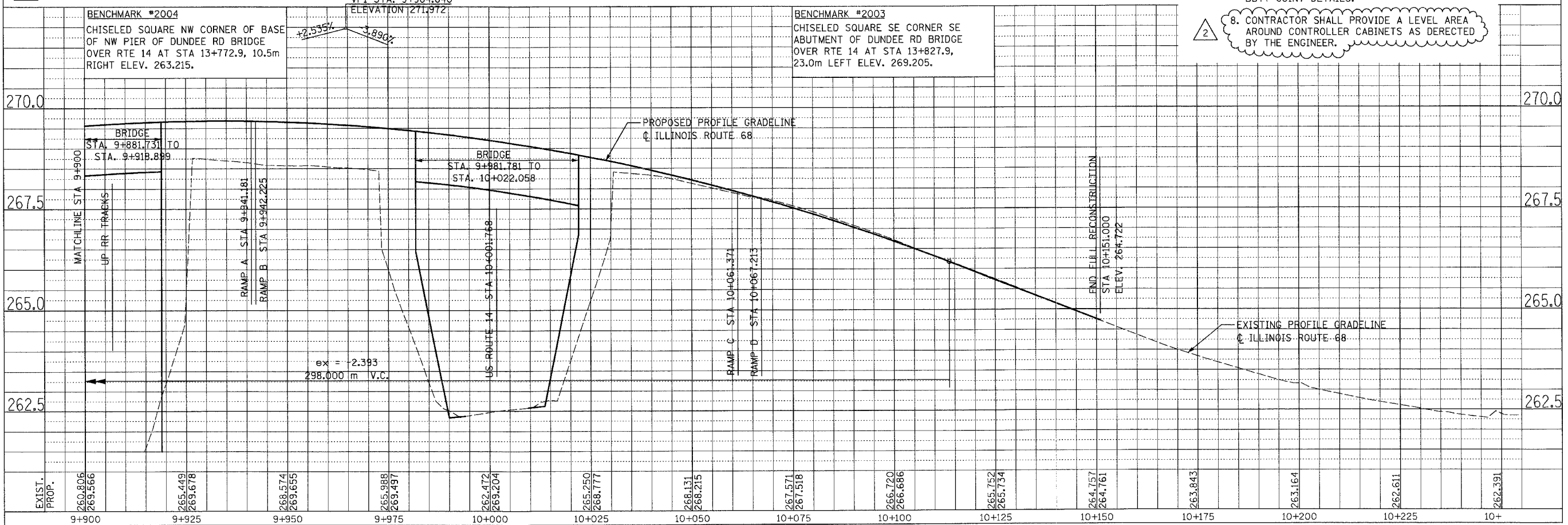
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
343	*	COOK	283	28
STA. 9+713.000 TO STA. 10+151.000		ILLINOIS FED. AID PROJECT		
FED. ROAD DIST. NO. 1		70D-Y-B-R & 70HB-R-1		
		62897		



PLAN	SURVEYED	DATE
	NOTED	
	BY	
	NO.	
	RT. OF WAY CHECKED	
	CADD FILE NAME	



- NOTES:**
1. ALL DIMENSIONS ARE IN METERS (m) UNLESS OTHERWISE NOTED
 2. FOR MORE INTERSECTION INFORMATION SEE INTERSECTION LAYOUT DETAILS
 3. FOR MORE INTERSECTION INFORMATION SEE INTERSECTION ELEVATION DETAILS
 4. FOR BRIDGE INFORMATION SEE STRUCTURAL PLANS
 5. FOR PROPOSED GUARDRAIL LOCATIONS SEE PAVEMENT MARKING AND LANDSCAPING PLANS
 6. FOR MORE SUPERELEVATION INFORMATION SEE SUPERELEVATION DETAIL
 7. FOR MORE BUTT JOINT INFORMATION SEE BUTT JOINT DETAILS.
 8. CONTRACTOR SHALL PROVIDE A LEVEL AREA AROUND CONTROLLER CABINETS AS DIRECTED BY THE ENGINEER.



PROFILE	SURVEYED	DATE
	NOTED	
	BY	
	NO.	
	RT. OF WAY CHECKED	
	CADD FILE NAME	

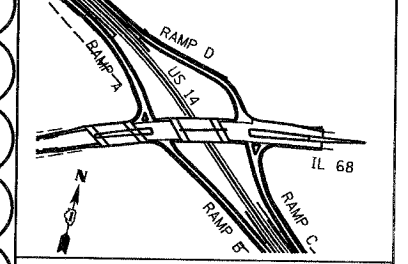
TRAFFIC SIGNALS QUANTITIES

NOTE	ITEM	UNIT	GRAND TOTAL	ELA RD & IL 68	IL 68 RAMP A&B	IL 68 RAMP C&D	ELA RD & US 14	INTERCONNECT
	SIGN PANEL - TYPE 2	SQ METER	9.28		4.64	4.64		
	HANDHOLE	EACH	8		4	4		
	HEAVY-DUTY HANDHOLE	EACH	9		3	3		3
	DOUBLE HANDHOLE	EACH	2		1	1		
	FULL-ACTUATED CONTROLLER AND TYPE IV CABINET	EACH	3	1	1		1	
	FULL-ACTUATED CONTROLLER AND TYPE V CABINET	EACH	1			1		
	MASTER CONTROLLER	EACH	1					
	TRANSCEIVER - FIBER OPTIC	EACH	4	1	1	1	1	1
	DRILL EXISTING HANDHOLE	EACH	2					2
	TRAFFIC SIGNAL BACKPLATE, LOUVERED	EACH	20		10	10		
	INDUCTIVE LOOP DETECTOR	EACH	14		7	7		
	CONDUIT IN TRENCH, 50MM DIA., GALVANIZED STEEL	METER	936.10		141.6	202.8		591.7
	CONDUIT IN TRENCH, 65MM DIA., GALVANIZED STEEL	METER	110.80		43.2	67.6		
	CONDUIT IN TRENCH, 75MM DIA., GALVANIZED STEEL	METER	15.10		3.6	11.5		
	CONDUIT IN TRENCH, 125MM DIA., GALVANIZED STEEL	METER	14.00		7	7		
	CONDUIT PUSHED, 50MM DIA., GALVANIZED STEEL	METER	44.10			44.1		
	CONDUIT PUSHED, 100MM DIA., GALVANIZED STEEL	METER	217.10		120.8	96.3		
	CONDUIT PUSHED, 125MM DIA., GALVANIZED STEEL	METER	18.50			18.5		
	CONDUIT EMBEDDED IN STRUCTURE, 65MM DIA., PVC	METER	98.30		74.5	23.8		
	TRENCH AND BACKFILL FOR ELECTRICAL WORK	METER	1076.00		195.4	288.9		591.7
	ELECTRIC CABLE IN TRENCH, SERVICE, NO. 6 2 C	METER	34.40		13	21.4		
	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	METER	1637.00		925	712		
	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C	METER	412.50		189	223.5		
	ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1 PAIR	METER	1056.77		526	530.77		
	TRAFFIC SIGNAL POST, GALVANIZED STEEL 4.25 METER	EACH	4		2	2		
	TRAFFIC SIGNAL POST, GALVANIZED STEEL 4.85 METER	EACH	2		1	1		
	STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 8.53 METER	EACH	2		1	1		
	STEEL MAST ARM ASSEMBLY AND POLE 9.14 METER	EACH	1			1		
	STEEL MAST ARM ASSEMBLY AND POLE WITH DUAL MAST ARMS, 8.53 METER AND 16.46	EACH	1			1		
	STEEL MAST ARM ASSEMBLY AND POLE WITH DUAL MAST ARMS, 10.97 METER AND 6.09	EACH	1		1			
	STEEL MAST ARM ASSEMBLY AND POLE 16.46 METER	EACH	1		1			
	CONCRETE FOUNDATION, TYPE A	METER	7.20		3.6	3.6		
	CONCRETE FOUNDATION, TYPE C	METER	2.40		1.2	1.2		
	CONCRETE FOUNDATION, TYPE E 750MM DIAMETER	METER	24.30		10.1	14.2		
	DETECTOR LOOP, PREFORMED	METER	391.00		201	190		
	ELECTRIC CABLE IN CONDUIT, TRACER, NO. 14 1C	METER	1027.00					1027
1	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3/C	METER	374.72		150.3	224.42		
1	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 20 3/C TWISTED SHIELDED	METER	375.08		150.6	224.48		
	FIBER OPTIC CABLE IN CONDUIT, NO. 62.5/125, MM12F SM12F	METER	1027.00					1027
	ELECTRIC CABLE IN CONDUIT, GROUNDING, NO. 6 1C	METER	447.40		195	252.4		
	CONCRETE FOUNDATION, TYPE E 900MM DIAMETER	METER	13.20		8.6	4.6		
	SERVICE INSTALLATION, POLE MOUNTED	EACH	2		1	1		
	OPTIMIZE TRAFFIC SIGNAL SYSTEM	L SUM	1					1
	SIGNAL HEAD ,LED, 1-FACE, 3-SECTION, MAST-ARM MOUNTED	EACH	18		9	9		
	SIGNAL HEAD ,LED, 1-FACE, 3-SECTION, BRACKET MOUNTED	EACH	8		4	4		
	SIGNAL HEAD ,LED, 2-FACE 1 3-SECTION ,1 5-SECTION, BRACKET MOUNTED	EACH	2		1	1		
	SIGNAL HEAD ,LED, 1-FACE, 5-SECTION, MAST-ARM MOUNTED	EACH	2		1	1		
1	LIGHT DETECTOR	EACH	6		3	3		
1	LIGHT DETECTOR AMPLIFIER	EACH	2		1	1		
	JUNCTION BOX, NON-METALIC, EMBEDDED IN STRUCTURE, 300MM X 300MM X 150MM	EACH	0		0	0		
	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	2	1			1	
	STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 12.80 METER	EACH	1		1			
	STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 10.36 METER	EACH	1			1		
	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	2	1			1	

NOTES

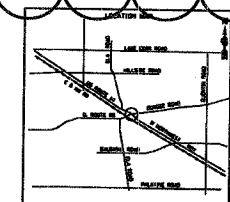
1. 100% COST TO VILLAGE OF PALATINE

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
343	*	COOK	283	113
STA.	TO STA.			
FED. ROAD DIST. NO. 1		ILLINOIS FED. AID PROJECT		
* 70D-Y-R & 70HB-R-1				62897



KEY PLAN

Rick Johns
 001 - District 01
 0619.000 - IL 68 over US 14
 P:\0619.000 - IL 68 over US 14\0619.000 - IL 68 over US 14\0619.000 - IL 68 over US 14
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REVISIONS	
NAME	DATE
ADDENDUM 2	02/15/07

TS-01 OF 13

ILLINOIS DEPARTMENT OF TRANSPORTATION

TRAFFIC SIGNALS QUANTITIES

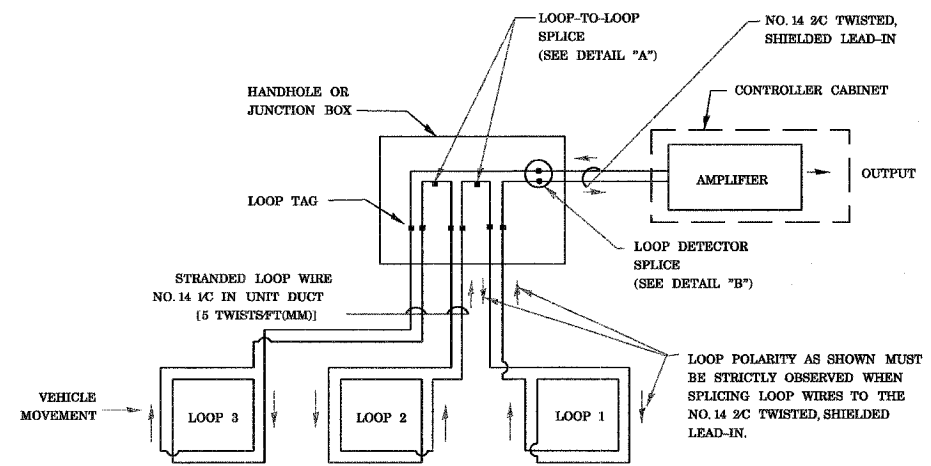
SCALE NONE
DATE NOVEMBER 2006

DRAWN BY R.P.J.
DESIGNED BY I.B.
CHECKED BY A.D.O.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
343	*	COOK	283	114
STA. #		TO STA.		
FED. ROAD DIST. NO. 1		ILLINOIS FED. AID PROJECT		
* 70D-Y-R & 70HB-R-1		62897		

LOOP DETECTOR NOTES

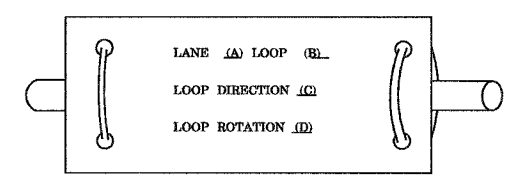
- EACH PAIR OF LOOP WIRES SHALL BE PLACED IN A SEPARATE UNIT DUCT FROM THE EDGE OF PAVEMENT TO THE HANDHOLE. SPACING BETWEEN THE HOLES DRILLED IN THE PAVEMENT SHALL NOT BE LESS THAN 6" (150 mm). UNIT DUCT SHALL BE INCLUDED IN THE COST OF THE LOOP WIRE.
- THE NUMBER OF LOOP TURNS SHALL BE AS RECOMMENDED BY THE AMPLIFIER MANUFACTURER. ALL ADJACENT SIDES OF THE LOOPS SHALL BE INSTALLED IN SUCH A WAY THAT THE CURRENT FLOW IS IN THE SAME DIRECTION TO REINFORCE ITS MAGNETIC FIELDS FOR SMALL VEHICLE DETECTION.
- EACH LOOP LEAD-IN SHALL BE IDENTIFIED AND PERMANENTLY TAGGED IN THE HANDHOLE. EACH LEAD-IN CABLE TAG SHALL INDICATE THE LOCATION OF THE LOOP, LOOP ROTATION (CLOCKWISE/COUNTERCLOCKWISE), LOOP LEAD-IN DIRECTION (IN OR OUT), LOOP CABLE NUMBER AND LOCATION IN CABINET, AND NUMBER OF TURNS IN THE DETECTOR LOOPS IN WATER PROOF INK AS INDICATED ON THE DISTRICT 1 STANDARD TRAFFIC SIGNAL DESIGN DETAIL. THE CONTRACTOR SHALL MARK LOOP LOCATIONS ON RECORD DRAWINGS AND PRESENT TO THE ENGINEER AFTER FINAL INSPECTION. LOOPS SHALL BE MARKED BY LANE AND LOOP NUMBER. SEE DETAIL BELOW.
- ALL LOOP CABLE SHALL BE FASTENED WITH PLASTIC TIE WRAP TO THE HANDHOLE HOOKS.
- IN ASPHALT PAVEMENT, LOOPS SHOULD BE PLACED IN THE BINDER AND DIVESHOLES MARKED AT THE CURB WITH A SAW-CUT. THE SAW-CUT SHALL BE CUT IN ACCORDANCE WITH LOCAL AND E.P.A. DUST CONTROL REQUIREMENTS. DETECTOR LOOP(S) SHALL NOT BE INSTALLED IN WET CONDITIONS AND THE SAW-CUTS MUST BE FREE OF DEBRIS AND RESIDUE SUCH AS DUST AND WATER WHICH IS TO BE ACHIEVED BY THE USE OF COMPRESSED AIR, WIRE BRUSHING AND HEAT DRYING ACCORDING TO SEALANT MANUFACTURER REQUIREMENTS. THE DETECTOR WIRE SHALL BE HELD IN PLACE BY THE USE OF FORM WEDGES. WEDGES SHALL BE SPACED NO MORE THAN 18" (450 mm) APART.
- LOOP SPLICES SHALL BE SOLDERED USING A SOLDERING IRON. BLOW TORCHES OR OTHER DEVICES WHICH OXIDIZE COPPER CABLE SHALL NOT BE ALLOWED FOR SOLDERING OPERATIONS. SEE DETAIL BELOW RIGHT.
- PERFORMED DETECTOR LOOPS SHALL BE USED, AS SHOWN ON THE PLANS, WHERE NEW CONCRETE PAVEMENT IS PROPOSED. THE INSTALLATION OF PREFORMED LOOPS SHALL BE IN ACCORDANCE WITH THE DISTRICT 1 SPECIFICATIONS OR AS DIRECTED BY THE ENGINEER.



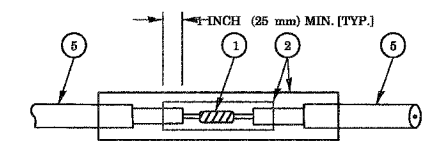
DETECTOR LOOP WIRING SCHEMATIC

- LOOPS SHALL BE SPLICED IN SERIES.
- SAW-CUTS SHALL BE A MINIMUM WIDTH OF 5/16" (8 mm).
- SAW-CUT DEPTHS SHALL BE 3" (75 mm). IF IN CONCRETE, THE SAW-CUT DEPTH SHALL BE TO THE TOP OF THE REINFORCEMENT.
- LOOP CORNERS SHALL BE DRILLED WITH A 2" (50 mm) DIAMETER CORE.

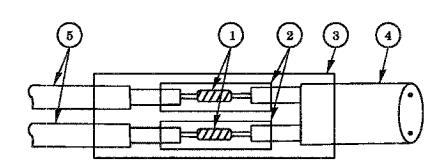
LOOP LEAD-IN CABLE TAG



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



DETAIL "A" LOOP-TO-LOOP SPLICE



DETAIL "B" LOOP-TO-CONTROLLER SPLICE

LOOP DETECTOR SPLICE

- WESTERN UNION SPLICE SOLDERED WITH ROSIN CORE FLUX. ALL EXPOSED SURFACES OF THE SOLDER SHALL BE SMOOTH.
- WCSMW 30100 HEAT SHRINK TUBE, MINIMUM LENGTH 3" (75 mm), UNDERWATER GRADE.
- WCS 200750 HEAT SHRINK TUBE, MINIMUM LENGTH 6" (150 mm), UNDERWATER GRADE.
- NO. 14 2C TWISTED, SHIELDED CABLE.
- LOOP CONDUCTOR WITH FLEXIBLE PLASTIC TUBE.

REV 2-15-07

TS-02 OF 13

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

DISTRICT 1
STANDARD TRAFFIC SIGNAL
DESIGN DETAILS

SCALE NONE

DATE 1-01-02

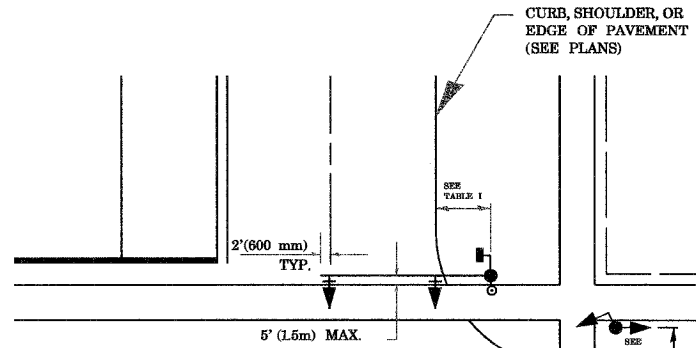
DRAWN BY RWP
DESIGNED BY DAD
CHECKED BY DAZ
SHEET 1 OF 4

Rick Johns
 District 01
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 11/29/2007 11:29:53 AM
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 10000 M / M

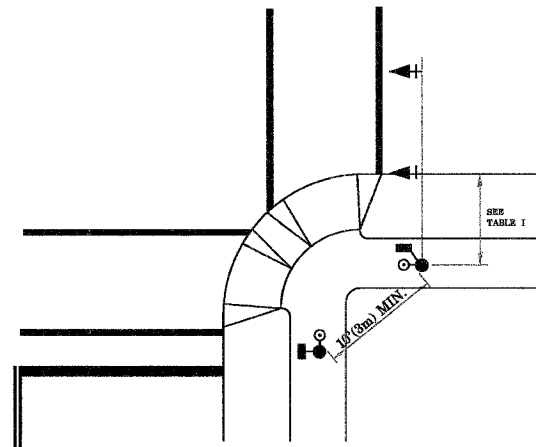
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
343	*	COOK	283	115
STA.		TO STA.		
FED. ROAD DIST. NO. 1		ILLINOIS FED. AID PROJECT		62897
* 700-Y-R & 70HB-R-1				

TRAFFIC SIGNAL MAST ARM AND POST

MAST ARM MOUNTED SIGNAL IN PROPOSED & FUTURE SIDEWALK AREA INTERSECTION SHOWN WITH PEDESTRIAN SIGNAL AND PUSHBUTTON DETECTOR



PEDESTRIAN SIGNAL PUSHBUTTON



RECOMMENDED PUSHBUTTON LOCATIONS FOR ACCESSIBLE PEDESTRIAN SIGNALS SHALL BE IN ACCORDANCE WITH THE CURRENT MUTCD (SEE NOTE 1). TO MEET MUTCD REQUIREMENTS, PEDESTRIAN SIGNAL PUSHBUTTONS MAY HAVE TO BE MOUNTED ON A SEPARATE POST.

NOTES:

1. AT ACCESSIBLE PEDESTRIAN SIGNAL LOCATIONS WITH PEDESTRIAN ACTUATION, EACH PUSHBUTTON SHALL ACTIVATE BOTH THE WALK INTERVAL AND THE ACCESSIBLE PEDESTRIAN SIGNALS.

AT ACCESSIBLE PEDESTRIAN SIGNAL LOCATIONS, PUSHBUTTONS SHOULD CLEARLY INDICATE WHICH CROSSWALK SIGNAL IS ACTUATED BY EACH PUSHBUTTON. PUSHBUTTONS AND TACTILE ARROWS SHOULD HAVE HIGH VISUAL CONTRAST (SEE THE DEPARTMENT OF JUSTICE'S AMERICANS WITH DISABILITIES ACT STANDARDS FOR ACCESSIBLE DESIGN, 1991). TACTILE ARROWS SHOULD POINT IN THE SAME DIRECTION AS THE ASSOCIATED CROSSWALK AT CORNERS OF SIGNALIZED LOCATIONS WITH ACCESSIBLE PEDESTRIAN SIGNALS WHERE PEDESTRIAN PUSHBUTTONS ARE PROVIDED, THE PUSHBUTTONS SHOULD BE SEPARATED BY THE DISTANCE OF AT LEAST 10 FT (3m). THIS ENABLES PEDESTRIANS WHO HAVE VISUAL DISABILITIES TO DISTINGUISH AND LOCATE THE APPROPRIATE PUSHBUTTON.

PUSHBUTTONS FOR ACCESSIBLE PEDESTRIAN SIGNALS SHOULD BE LOCATED AS FOLLOWS:

- A: ADJACENT TO A LEVEL ALL-WEATHER SURFACE TO PROVIDE ACCESS FROM A WHEELCHAIR, AND WHERE THERE IS AN ALL-WEATHER SURFACE, WHEELCHAIR ACCESSIBLE ROUTE TO THE RAMP.
- B: WITHIN 5 FT (1.5m) OF THE CROSSWALK EXTENDED.
- C: WITHIN 10 FT (3m) OF THE EDGE OF CURB, SHOULDER, OR PAVEMENT.
- D: PARALLEL TO THE CROSSWALK TO BE USED (SEE MUTCD FIGURE 4E-2).
- E: NORMAL PEDESTRIAN PUSHBUTTON MOUNTING HEIGHT SHOULD BE 3.5 FT (1.05m) ABOVE ADJACENT SIDEWALK

2. PEDESTRIAN SIGNAL FACES SHALL BE MOUNTED WITH THE BOTTOM OF THE HOUSING NOT LESS THAN 8 FT (2.4m) NOR MORE THAN 10 FT (3.0m) ABOVE THE SIDEWALK LEVEL AND SO THERE IS A PEDESTRIAN INDICATION IN THE LINE OF PEDESTRIANS' VISION WHICH PERTAINS TO THE CROSSWALK BEING USED.

3. THE BOTTOM OF THE HOUSING OF A VEHICLE SIGNAL FACE, NOT MOUNTED OVER A ROADWAY, SHALL BE AT LEAST 10 FT (3.0m) BUT NOT MORE THAN 15 FT (4.5m) ABOVE THE SIDEWALK OR, ABOVE THE PAVEMENT GRADE AT THE CENTER OF THE HIGHWAY IF NO SIDEWALKS EXIST.

4. THE BOTTOM OF THE HOUSING OF A VEHICLE SIGNAL FACE, MOUNTED OVER A ROADWAY, SHALL BE ACCORDING TO CURRENT STATE STANDARDS 877001 AND 877006 (16 FT (5m) MIN., 18 FT (5.5m) MAX., FROM HIGHEST POINT OF PAVEMENT)

PEDESTRIAN SIGNAL POST

PEDESTRIAN SIGNAL HEAD AND PEDESTRIAN PUSHBUTTON DETECTOR LOCATION

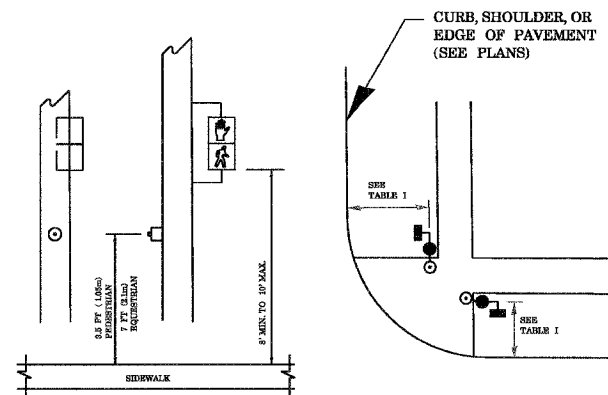


TABLE I

TRAFFIC SIGNAL EQUIPMENT	COMBINATION CONCRETE CURB AND GUTTER (MIN. DIST. FROM BACK OF CURB)	SHOULDER/NON-CURBED AREA (MIN. DIST. FROM EDGE OF PAVEMENT)
TRAFFIC SIGNAL MAST ARM POLE	6 FT (1.8m)	SHOULDER WIDTH + 2FT(0.6m), MINIMUM 10FT(3.0m)
TRAFFIC SIGNAL POST	4 FT (1.2m)	SHOULDER WIDTH + 2FT(0.6m), MINIMUM 10FT(3.0m)
PEDESTRIAN SIGNAL POST	4 FT (1.2m)	SHOULDER WIDTH + 2FT(0.6m), MINIMUM 10FT(3.0m)
PEDESTRIAN PUSHBUTTON	SEE NOTE 1	SEE NOTE 1

REV 2-15-07

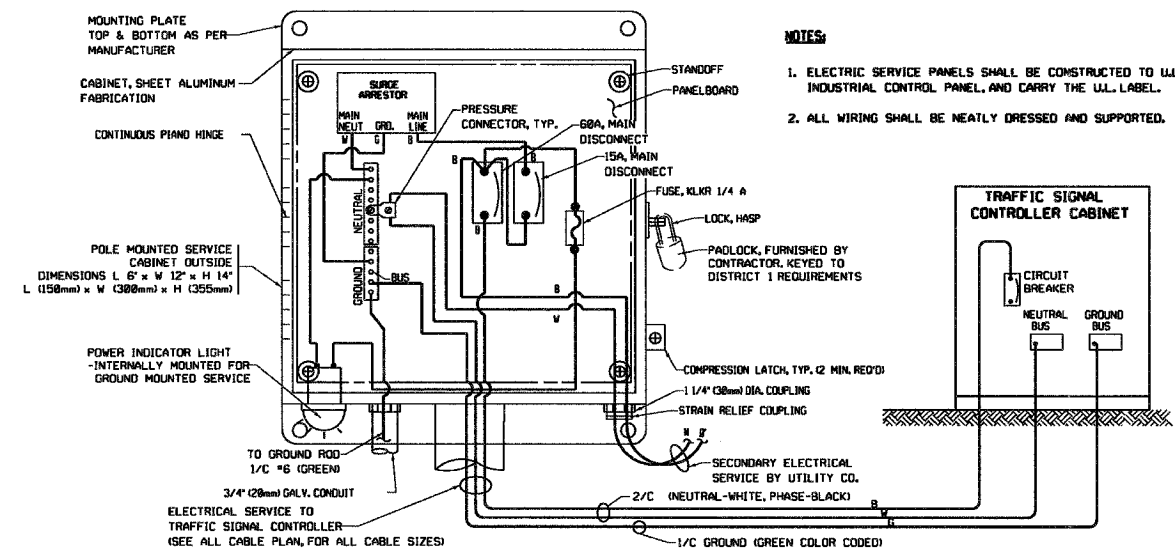
TS-03 OF 13

REVISIONS		ILLINOIS DEPARTMENT OF TRANSPORTATION
NAME	DATE	
		DISTRICT 1 STANDARD TRAFFIC SIGNAL DESIGN DETAILS DRAWN BY RWP DESIGNED BY DAD CHECKED BY DAZ SHEET 2 OF 4

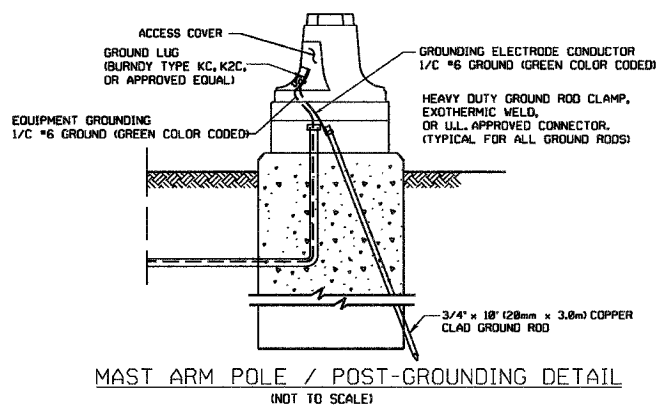
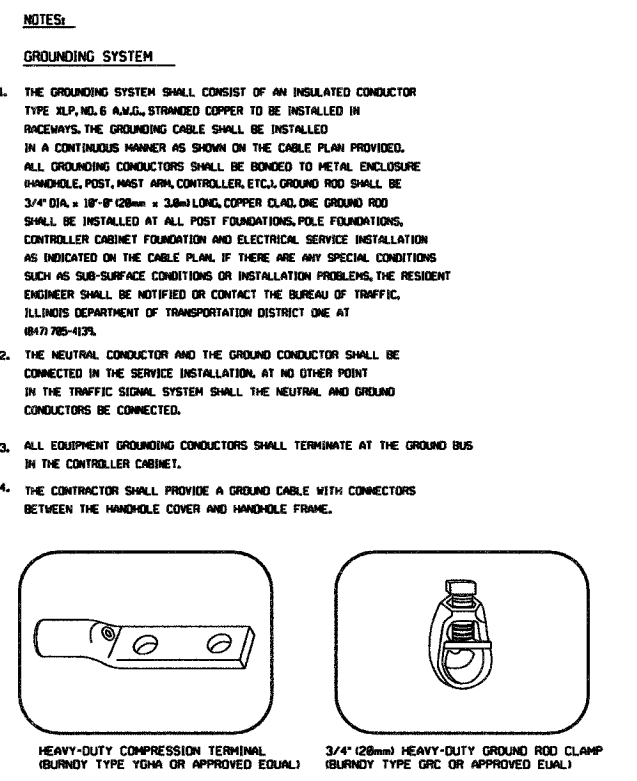
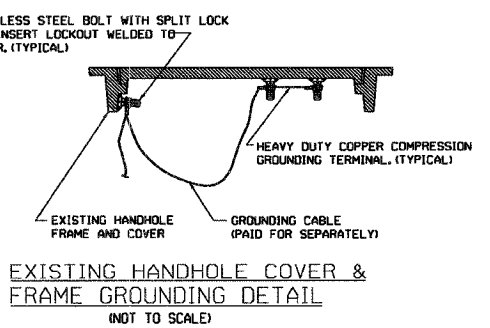
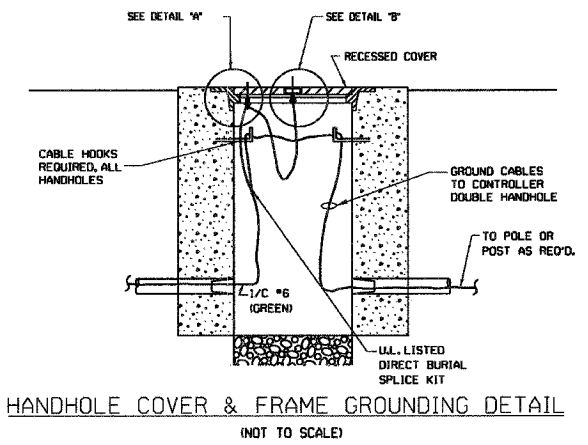
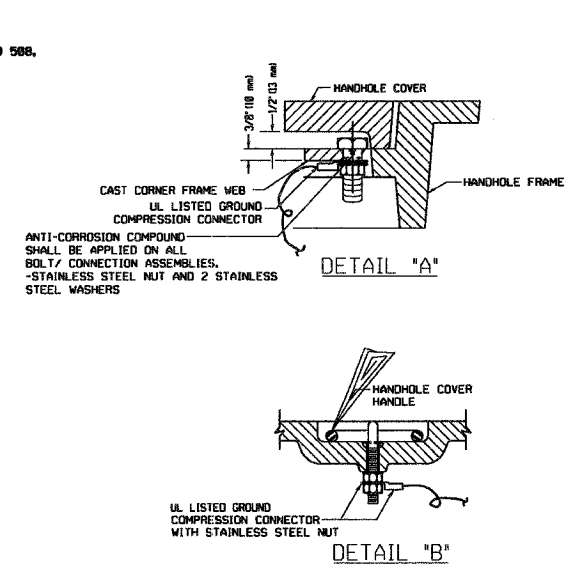
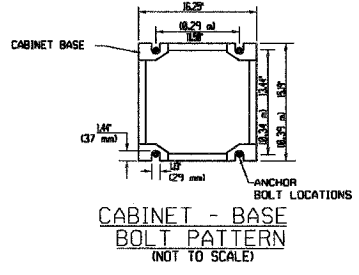
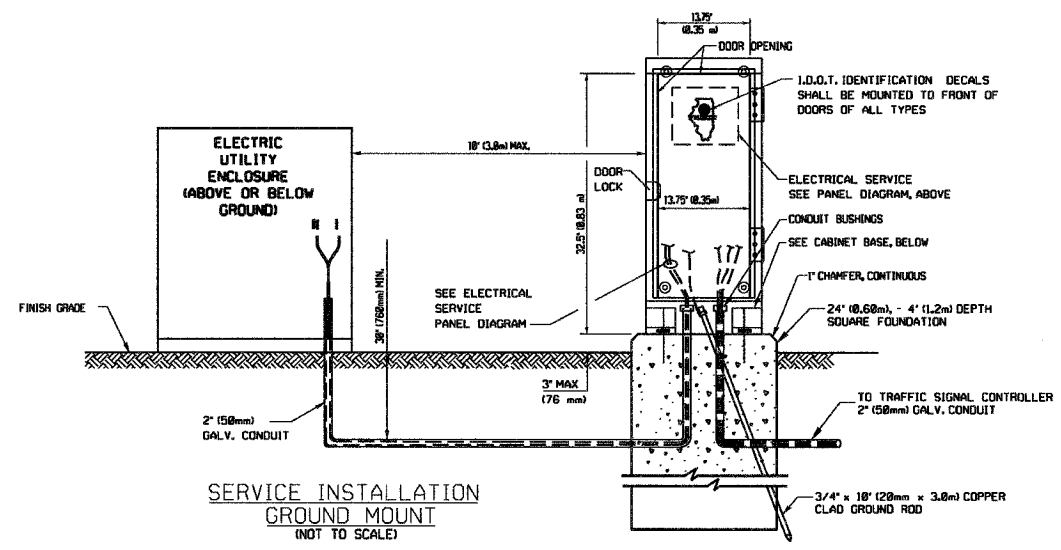
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DATE: 1-01-02

Rick Johns
 IDOT - District 01
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 Parkersburg, IL 68
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 10000 M / M

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
343	*	COOK	283	116
STA.		TO STA.		
FED. ROAD DIST. NO. 1		ILLINOIS FED. AID PROJECT		
* 70D-Y-R & 70HB-R-1		62897		



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



REV 2-15-07

TS-04 OF 13

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

DISTRICT 1
 STANDARD TRAFFIC SIGNAL
 DESIGN DETAILS

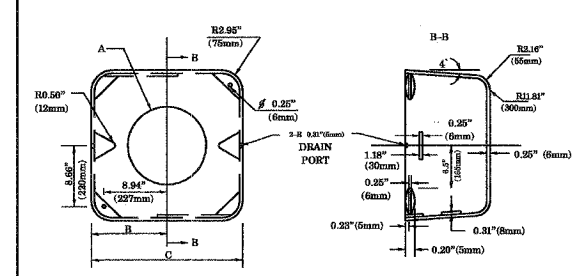
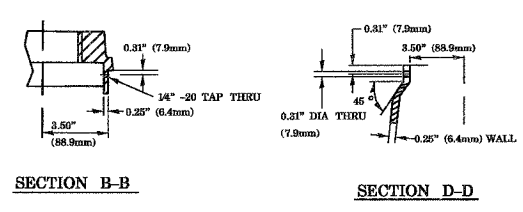
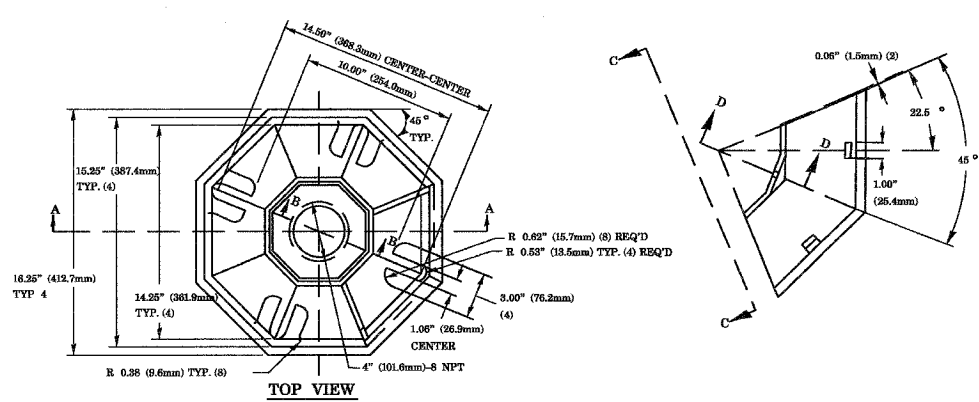
SCALE NONE

DATE 1-01-02

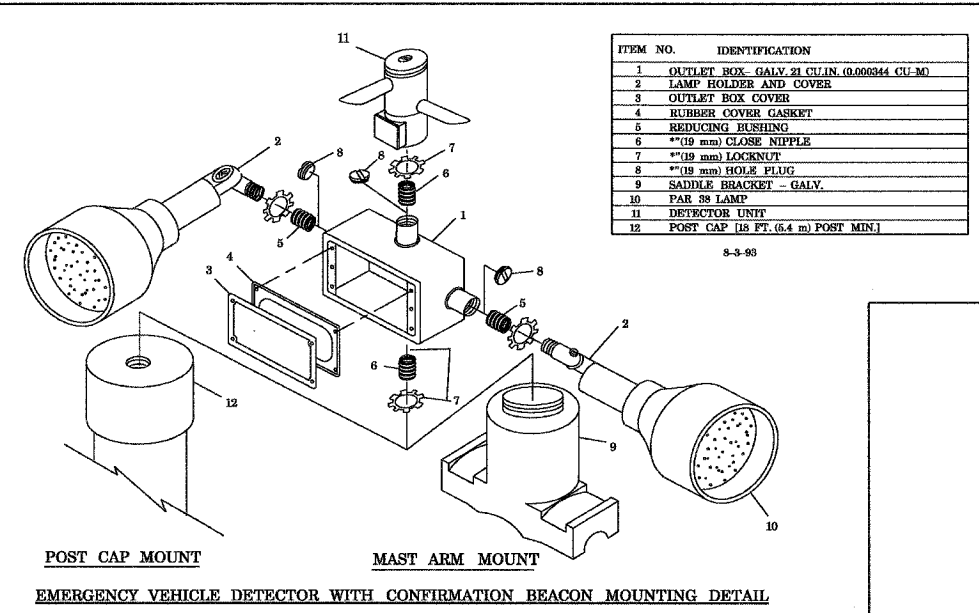
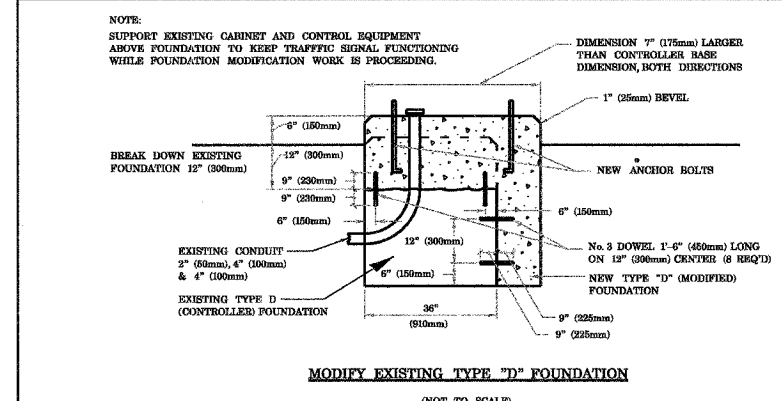
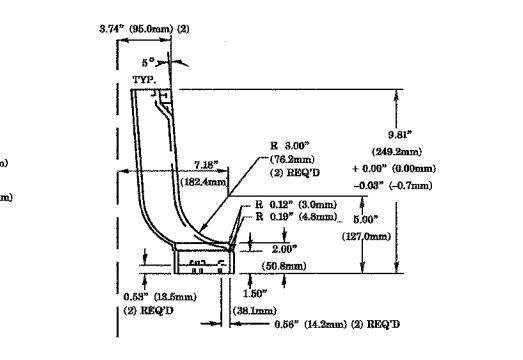
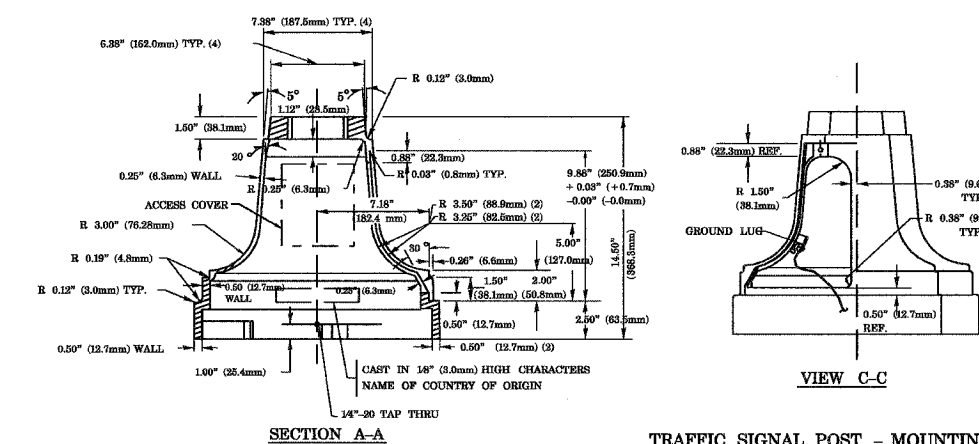
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 DESIGNED BY DAD
 CHECKED BY DAZ
 SHEET 3 OF 4

Rick Johns - District 01
 IDOT - District 01
 6815 S. 11th St.
 Peoria, IL 61614
 309-673-1300
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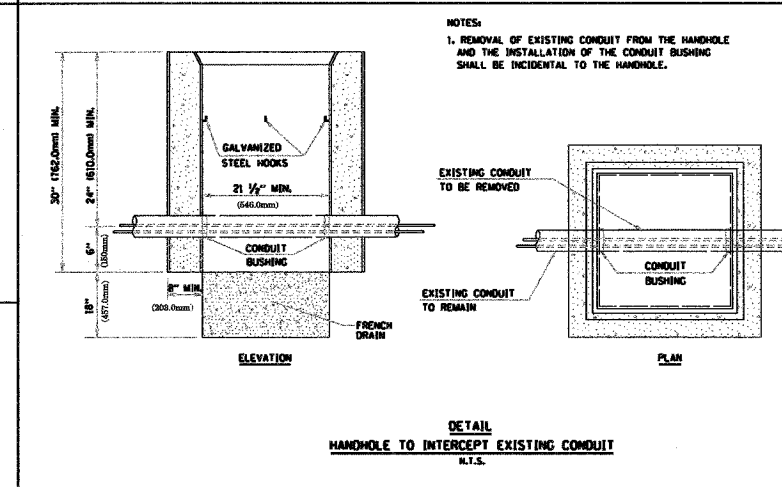
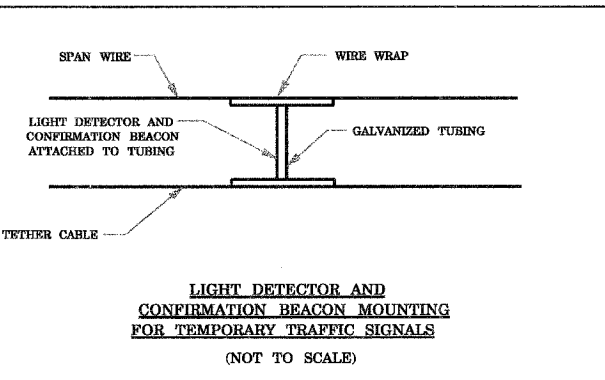
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
343	#	COOK	283	117
STA.		TO STA.		
FED. ROAD DIST. NO. 1		ILLINOIS FED. AID PROJECT		
# 70D-Y-R & 70HB-R-1		62897		



TYPE	A	B	C	HEIGHT	WEIGHT
I	# 10.125\"(257mm)	9.2\"(241mm)	19\"(483mm)	12\"(300mm)	24kg
II	# 11.125\"(283mm)	10.75\"(273mm)	21.5\"(546mm)	12\"(300mm)	28kg



- NOTES:**
- ALL ELECTRICAL ITEMS, EXCEPT ITEMS #2 AND #11 SHALL BE ALUMINUM OR GALVANIZED
 - ITEM #1 - OZGEDNEY FEX-1-50 OR EQUIVALENT
ITEM #2 - MULBERRY CON-O-SHADE LAMP SHIELD OR EQUIVALENT
ITEM #9 - "HAND-IT" SADDLE BRACKET OR EQUIVALENT
 - WHEN POST MOUNTING IS SPECIFIED, ITEM #9 SHALL NOT BE REQUIRED. THE DETECTOR UNIT SHALL BE MOUNTED DIRECTLY ON TOP OF THE CAP BY DRILLING AND TAPPING A 1/2\"(19 mm) HOLE WITH PIPE THREADS. THE POST CAP SHALL EITHER BE SCREWED TO THE TOP OF THE POST OR A MINIMUM OF 3 TIGHTENING SCREWS SHALL BE REQUIRED ON EACH CAP.



REV 2-15-07

TS-05 OF 13

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

DISTRICT 1
STANDARD TRAFFIC SIGNAL
DESIGN DETAILS

SCALE NONE
DATE 1-01-02

DRAWN BY RWP
DESIGNED BY DAD
CHECKED BY DAZ
SHEET 4 OF 4

Rick Johns - District 01
 IDOT - District 01
 2/15/2007 11:34:24 AM
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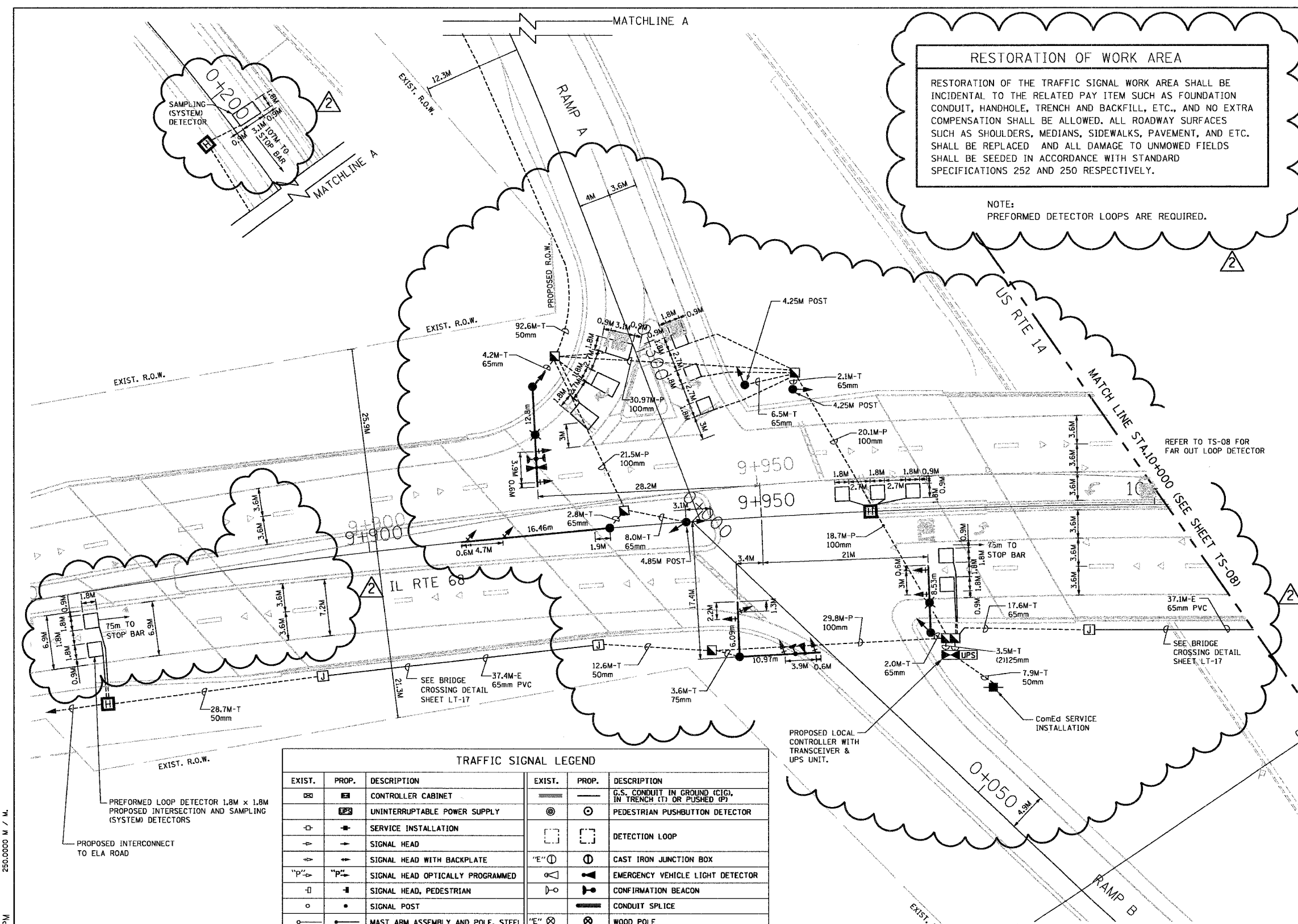
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
343	*	COOK	283	118
STA. TO STA.		FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT		
* 700-Y-R & 70HB-R-1		62897		

KEY PLAN

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, AND ETC. SHALL BE REPLACED AND ALL DAMAGE TO UNMOWED FIELDS SHALL BE SEED IN ACCORDANCE WITH STANDARD SPECIFICATIONS 252 AND 250 RESPECTIVELY.

NOTE: PREFORMED DETECTOR LOOPS ARE REQUIRED.



TRAFFIC SIGNAL LEGEND					
EXIST.	PROP.	DESCRIPTION	EXIST.	PROP.	DESCRIPTION
☐	☐	CONTROLLER CABINET	—	—	G.S. CONDUIT IN GROUND (CIG), IN TRENCH (T) OR PUSHED (P)
	UPS	UNINTERRUPTIBLE POWER SUPPLY	⊙	⊙	PEDESTRIAN PUSHBUTTON DETECTOR
+	+	SERVICE INSTALLATION	□	□	DETECTION LOOP
↑	↑	SIGNAL HEAD	⊙	⊙	CAST IRON JUNCTION BOX
↑	↑	SIGNAL HEAD WITH BACKPLATE	⊙	⊙	EMERGENCY VEHICLE LIGHT DETECTOR
↑	↑	SIGNAL HEAD OPTICALLY PROGRAMMED	⊙	⊙	CONFIRMATION BEACON
↑	↑	SIGNAL HEAD, PEDESTRIAN	—	—	CONDUIT SPLICE
○	○	SIGNAL POST	⊗	⊗	WOOD POLE
—	—	MAST ARM ASSEMBLY AND POLE, STEEL	⊗	⊗	RACEWAY FOR MAGNETIC DETECTOR, TYPE I/TYPE II
—	—	MAST ARM ASSEMBLY AND POLE, ALUMINUM	—	—	VEHICLE DETECTOR, NON-COMPENSATED MAGNETIC TYPE
—	—	COMBINATION MAST ARM ASSEMBLY AND POLE, STEEL WITH LUMINAIRE	☐	☐	RAILROAD CONTROL CABINET
UD	UD	UNIT DUCT	☐	☐	TELEPHONE INSTALLATION
CT	CT	COMMON TRENCH	⊗	⊗	ILLUMINATED SIGN "NO LEFT TURN"
☐	☐	HANDHOLE	⊗	⊗	ILLUMINATED SIGN "NO RIGHT TURN"
☐	☐	DOUBLE HANDHOLE			
☐	☐	HEAVY DUTY HANDHOLE			

REFER TO TS-08 FOR FAR OUT LOOP DETECTOR

SEE BRIDGE CROSSING DETAIL SHEET LT-17

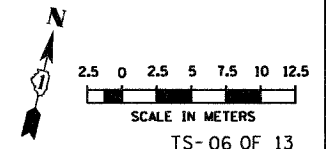
PROPOSED LOCAL CONTROLLER WITH TRANSCIEVER & UPS UNIT.

ComEd SERVICE INSTALLATION

PREFORMED LOOP DETECTOR 1.8M x 1.8M PROPOSED INTERSECTION AND SAMPLING (SYSTEM) DETECTORS

PROPOSED INTERCONNECT TO ELA ROAD

Rick Johns
 District of
 Cook County
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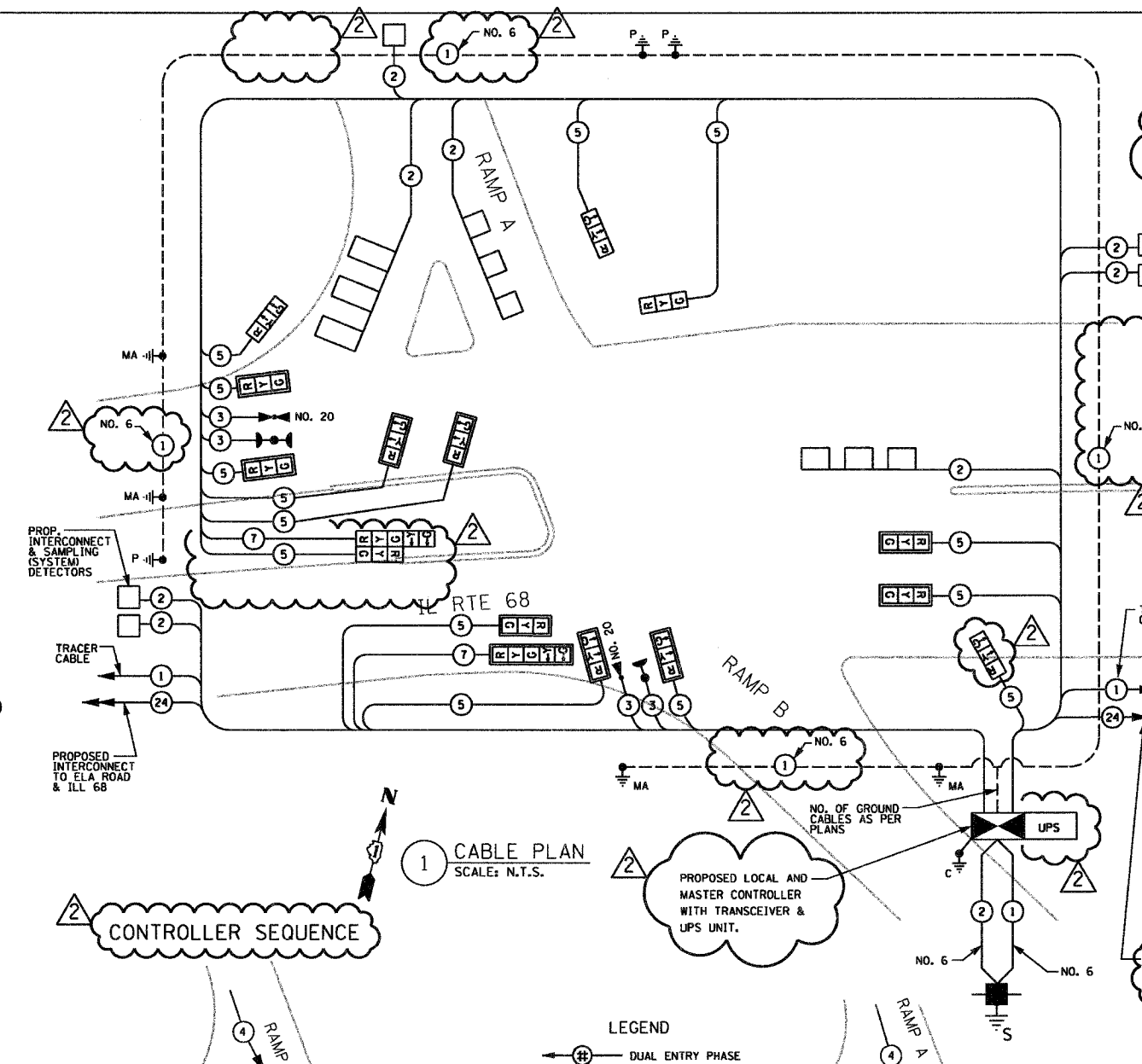
REVISIONS	
NAME	DATE
ADDENDUM 2	02/15/07

ILLINOIS DEPARTMENT OF TRANSPORTATION
 ILLINOIS ROUTE 68 AT U.S. ROUTE 14
 RAMPS A & B
 PROPOSED TRAFFIC SIGNAL PLAN

SCALE 1:250
 DATE NOVEMBER 2006
 DRAWN BY R.P.J.
 DESIGNED BY I.B.
 CHECKED BY A.D.O.

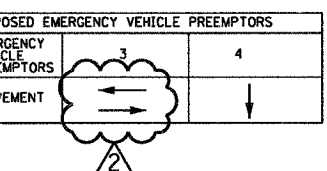
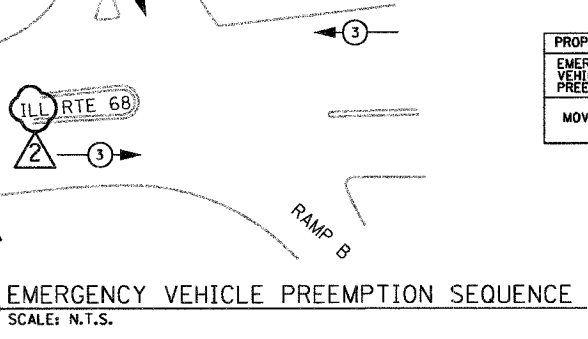
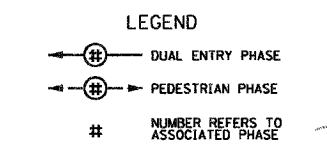
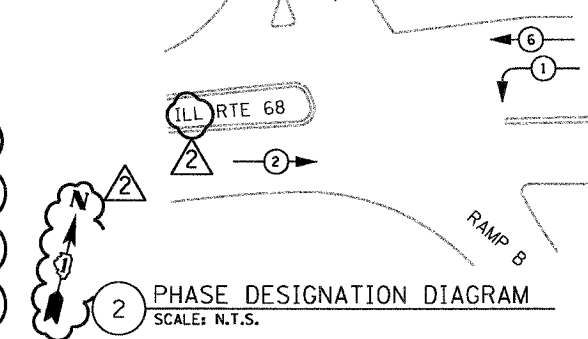
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343	*	COOK	283	119
STA.		TO STA.		
FED. ROAD DIST. NO. 1		ILLINOIS FED. AID PROJECT		62897
		* T0D-Y-R & 70HD-R-1		

CABLE PLAN LEGEND		
EXIST.	PROP.	DESCRIPTION
G	R	8"(200mm) TRAFFIC SIGNAL SECTION
R	R	12"(300mm) TRAFFIC SIGNAL SECTION
W	W	12"(300mm) PEDESTRIAN SIGNAL SECTION
P	P	12"(300mm) PEDESTRIAN SIGNAL SECTION
☐	☐	CONTROLLER CABINET
☐	☐	SERVICE INSTALLATION
T	T	TELEPHONE INSTALLATION
☐	☐	VEHICLE DETECTOR, INDUCTION LOOP
☐	☐	VEHICLE DETECTOR, MAGNETIC
☐	☐	EMERGENCY VEHICLE LIGHT DETECTOR
☐	☐	CONFIRMATION BEACON
☐	☐	PUSHBUTTON DETECTOR
②	②	DENOTES NUMBER OF CONDUCTORS ALL CABLES NO. 14 AND SHIELDED EXCEPT AS INDICATED
①	①	GROUND CABLE IN CONDUIT NO. 6 SOLID COPPER (GREEN)
②④	②④	FIBER OPTIC CABLE IN CONDUIT NO. 62.5/125 2-MM IZF SM12P
RY	RY	SIGNAL FACE WITH BACKPLATE: RED YELLOW GREEN YELLOW LEFT GREEN LEFT "P" INDICATES PROGRAMMED HEAD
E	E	RAILROAD CONTROL CABINET
E	E	ILLUMINATED SIGN "NO LEFT TURN"
E	E	ILLUMINATED SIGN "NO RIGHT TURN"
H/C	C	GROUND ROD AT HANDHOLE (H), DOUBLE HANDHOLE (H) OR CONTROLLER (C) ARM POLE (MA)
P	P	GROUND ROD AT POST (P) OR MAST
S	S	GROUND ROD AT ELECTRIC SERVICE INSTALLATION
UPS	UPS	UNINTERRUPTIBLE POWER SUPPLY



TRAFFIC SIGNALS QUANTITIES		
ITEM	UNIT	IL 68 RAMP A&B
SIGN PANEL - TYPE 2	SQ METER	4.64
HANDHOLE	EACH	4
HEAVY-DUTY HANDHOLE	EACH	3
DOUBLE HANDHOLE	EACH	1
FULL-ACTUATED CONTROLLER AND TYPE IV CABINET	EACH	1
TRANSCIVER - FIBER OPTIC	EACH	1
TRAFFIC SIGNAL BACKPLATE, LOUVERED	EACH	10
INDUCTIVE LOOP DETECTOR	EACH	7
CONDUIT IN TRENCH, 50MM DIA., GALVANIZED STEEL	METER	141.6
CONDUIT IN TRENCH, 65MM DIA., GALVANIZED STEEL	METER	43.2
CONDUIT IN TRENCH, 75MM DIA., GALVANIZED STEEL	METER	3.6
CONDUIT PUSHED, 100MM DIA., GALVANIZED STEEL	METER	120.8
CONDUIT EMBEDDED IN STRUCTURE, 65MM DIA., PVC	METER	74.5
TRENCH AND BACKFILL FOR ELECTRICAL WORK	METER	195.4
ELECTRIC CABLE IN TRENCH, SERVICE, NO. 6 2 C	METER	13
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	METER	925
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C	METER	189
ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1 PAIR	METER	526
TRAFFIC SIGNAL POST, GALVANIZED STEEL 4.25 METER	EACH	2
TRAFFIC SIGNAL POST, GALVANIZED STEEL 4.85 METER	EACH	1
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 8.53 METER	EACH	1
STEEL MAST ARM ASSEMBLY AND POLE WITH DUAL MAST ARMS, 10.97 METER AND 6.09 METER	EACH	1
STEEL MAST ARM ASSEMBLY AND POLE 16.46 METER	EACH	1
CONCRETE FOUNDATION, TYPE A	METER	3.6
CONCRETE FOUNDATION, TYPE C	METER	1.2
CONCRETE FOUNDATION, TYPE E 750MM DIAMETER	METER	10.1
DETECTOR LOOP, PREFORMED	METER	201
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3/C	METER	150.3
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 20 3/C TWISTED SHIELDED	METER	150.6
ELECTRIC CABLE IN CONDUIT, GROUNDING, NO. 6 1C	METER	195
CONCRETE FOUNDATION, TYPE E 900MM DIAMETER	METER	8.6
SERVICE INSTALLATION, POLE MOUNTED	EACH	1
SIGNAL HEAD LED, 1-FACE, 3-SECTION, MAST-ARM MOUNTED	EACH	9
SIGNAL HEAD LED, 1-FACE, 3-SECTION, BRACKET MOUNTED	EACH	4
SIGNAL HEAD LED, 2-FACE 1 3-SECTION, 1 5-SECTION, BRACKET	EACH	1
SIGNAL HEAD LED, 1-FACE, 5-SECTION, MAST-ARM MOUNTED	EACH	1
LIGHT DETECTOR	EACH	3
LIGHT DETECTOR AMPLIFIER	EACH	1
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 12.80 METER	EACH	1

I.D.O.T. TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS					
TYPE	NO. OF LAMPS	WATTAGE		% OPERATION	TOTAL WATTAGE
		INCAND.	L.E.D.		
SIGNAL (RED)	16	135	17	0.50	136
(YELLOW)	16	135	25	0.25	100
(GREEN)	16	135	15	0.25	60
ARROW	4	135	12	0.10	4.8
PED. SIGNAL	-	90	25	1.00	-
CONTROLLER	1	100	100	1.00	100
ILLUM. SIGN	-	252	-	0.05	-
FLASHER	-	-	-	0.50	-
TOTAL					400.8



FOUNDATION (DEPTH)	FT. (m)	CABLE SLACK	FT. (m)	VERTICAL	FT. (m)
TYPE A - POST	4 (1.2)	HANDHOLE	6.5 (2.0)	ALL FOUNDATIONS	3.5 (1.0)
C - CONTROLLER	4 (1.2)	DOUBLE HANDHOLE	13 (4.0)	MAST ARM (L) POLE	20'+L-2= (6m+L-0.6m)
E - M. ARM POLE	-	SIGNAL POST	2 (1.0)	BRACKET MOUNTED	13 (4.0)
30" (750MM)	15 (4.6)	CONTROLLER CAB.	1 (0.5)	PED. PUSHBUTTON	4 (1.2)
36" (900MM)	15 (4.6)	FIBER OPTIC	13 (4.0)	ELECTRICAL SERVICE	13.5 (4.1)
		ELECTRICAL SERVICE	1 (0.5)	SERVICE TO GROUND	13.5 (4.1)
		GROUND CABLE	1 (0.5)	POST MOUNTED	6 (1.8)

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

ENERGY SUPPLY:
CONTACT: JOHN STRIZAK
PHONE: 630-491-4363
COMPANY: ComEd

REV 2-15-07

TS-07 OF 13

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
ILLINOIS ROUTE 68 AT U.S. ROUTE 14
RAMPS A & B
SCHEDULE OF QUANTITIES, CABLE PLAN AND
PHASE DESIGNATION DIAGRAM

SCALE N.T.S. DRAWN BY R.P.J.
DATE NOVEMBER 2006 DESIGNED BY I.B.
CHECKED BY A.D.O.

Rick Johns
 District 01
 1001 S. 1st St.
 P.O. Box 19000
 St. Louis, MO 63119
 27/15/2007

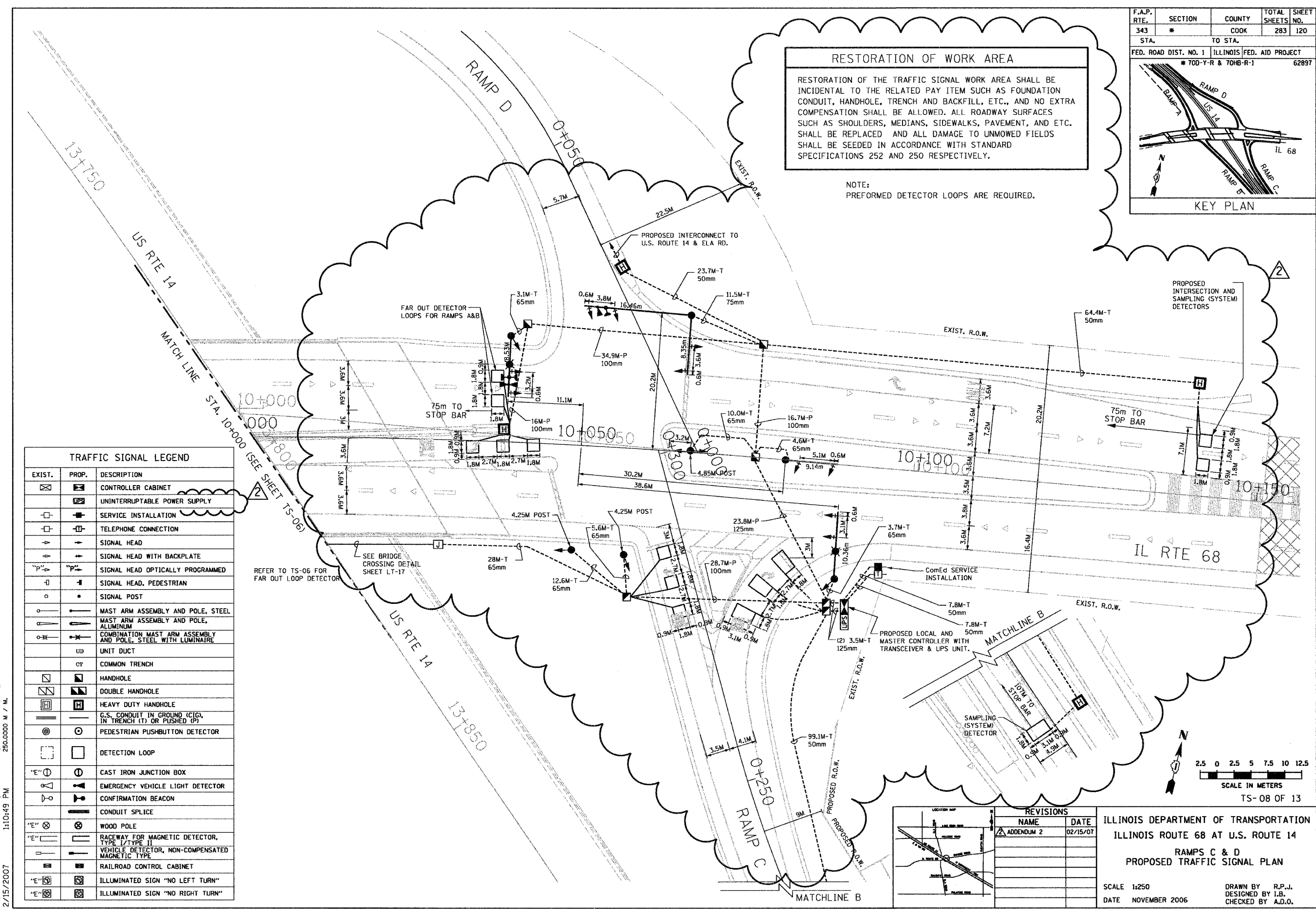
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
343	*	COOK	283	120
STA.	TO STA.			
FED. ROAD DIST. NO. 1	ILLINOIS FED. AID PROJECT		62897	
* 70D-Y-R & 70HB-R-1				

KEY PLAN

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, AND ETC. SHALL BE REPLACED AND ALL DAMAGE TO UNMOWED FIELDS SHALL BE SEED IN ACCORDANCE WITH STANDARD SPECIFICATIONS 252 AND 250 RESPECTIVELY.

NOTE:
PREFORMED DETECTOR LOOPS ARE REQUIRED.



TRAFFIC SIGNAL LEGEND

EXIST.	PROP.	DESCRIPTION
		CONTROLLER CABINET
		UNINTERRUPTABLE POWER SUPPLY
		SERVICE INSTALLATION
		TELEPHONE CONNECTION
		SIGNAL HEAD
		SIGNAL HEAD WITH BACKPLATE
		SIGNAL HEAD OPTICALLY PROGRAMMED
		SIGNAL HEAD, PEDESTRIAN
		SIGNAL POST
		MAST ARM ASSEMBLY AND POLE, STEEL
		MAST ARM ASSEMBLY AND POLE, ALUMINUM
		COMBINATION MAST ARM ASSEMBLY AND POLE, STEEL WITH LUMINAIRE
		UNIT DUCT
		COMMON TRENCH
		HANDHOLE
		DOUBLE HANDHOLE
		HEAVY DUTY HANDHOLE
		G.S. CONDUIT IN GROUND (CIG), IN TRENCH (T) OR PUSHED (P)
		PEDESTRIAN PUSHBUTTON DETECTOR
		DETECTION LOOP
		CAST IRON JUNCTION BOX
		EMERGENCY VEHICLE LIGHT DETECTOR
		CONFIRMATION BEACON
		CONDUIT SPLICE
		WOOD POLE
		RACEWAY FOR MAGNETIC DETECTOR, TYPE I/TYPE II
		VEHICLE DETECTOR, NON-COMPENSATED MAGNETIC TYPE
		RAILROAD CONTROL CABINET
		ILLUMINATED SIGN "NO LEFT TURN"
		ILLUMINATED SIGN "NO RIGHT TURN"

Rick Johns - District 01
 DDT - District 01
 68 ver: US 14
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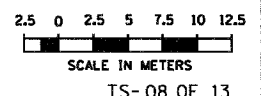
REVISIONS

NAME	DATE
ADDENDUM 2	02/15/07

ILLINOIS DEPARTMENT OF TRANSPORTATION
 ILLINOIS ROUTE 68 AT U.S. ROUTE 14
 RAMP C & D
 PROPOSED TRAFFIC SIGNAL PLAN

SCALE 1:250
 DATE NOVEMBER 2006

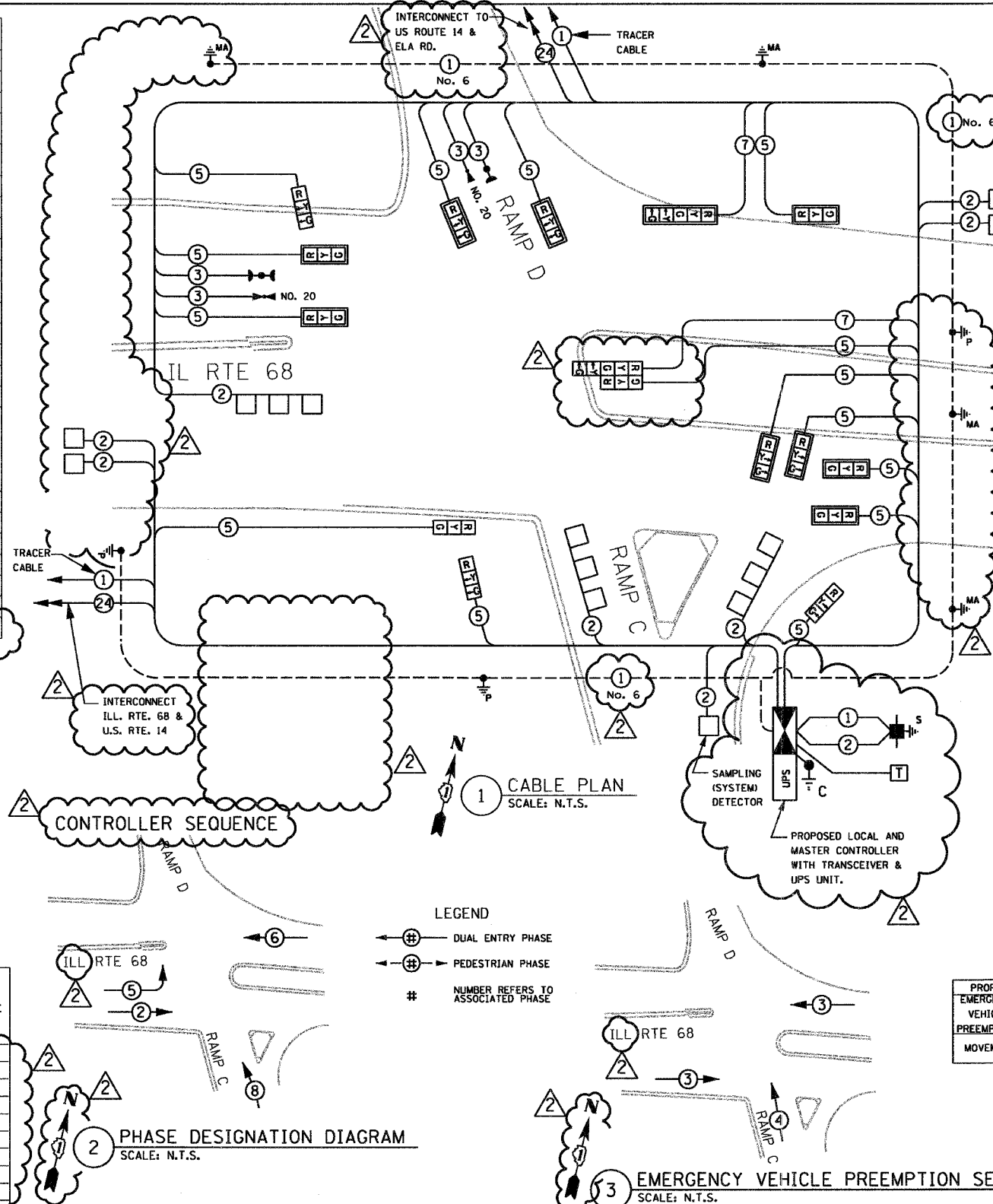
DRAWN BY R.P.J.
 DESIGNED BY I.B.
 CHECKED BY A.D.O.



TS-08 OF 13

CABLE PLAN LEGEND

EXIST.	PROP.	DESCRIPTION
C	G	8"(200mm)TRAFFIC SIGNAL SECTION
R	R	12"(300mm)TRAFFIC SIGNAL SECTION
W	W	12"(300mm)PEDESTRIAN SIGNAL SECTION
P	P	12"(300mm)PEDESTRIAN SIGNAL SECTION
C	C	CONTROLLER CABINET
S	S	SERVICE INSTALLATION
T	T	TELEPHONE INSTALLATION
V	V	VEHICLE DETECTOR, INDUCTION LOOP
M	M	VEHICLE DETECTOR, MAGNETIC
E	E	EMERGENCY VEHICLE LIGHT DETECTOR
B	B	CONFIRMATION BEACON
P	P	PUSHBUTTON DETECTOR
DENOTES NUMBER OF CONDUCTORS ALL CABLES NO. 14 AND SHIELDED EXCEPT AS INDICATED		
1	1	GROUND CABLE IN CONDUIT NO. 6 SOLID COPPER (GREEN)
24	24	FIBER OPTIC CABLE IN CONDUIT NO. 62.5/125 2-MM12F SM12F
SIGNAL FACE WITH BACKPLATE:		
R	R	RED
Y	Y	YELLOW
G	G	GREEN
Y	Y	YELLOW LEFT
G	G	GREEN LEFT
"P" INDICATES PROGRAMMED HEAD		
R	R	RAILROAD CONTROL CABINET
E	E	ILLUMINATED SIGN "NO LEFT TURN"
E	E	ILLUMINATED SIGN "NO RIGHT TURN"
H/C	C	GROUND ROD AT HANDHOLE (H), DOUBLE HANDHOLE (H) OR CONTROLLER (C)
P	P	GROUND ROD AT POST (P) OR MAST ARM POLE (MA)
S	S	GROUND ROD AT ELECTRIC SERVICE INSTALLATION
UPS	UPS	UNINTERRUPTIBLE POWER SUPPLY

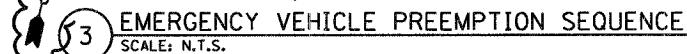
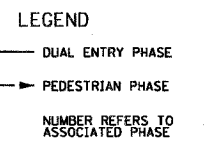
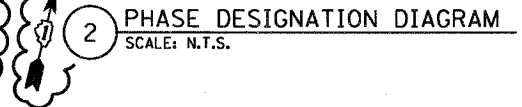


TRAFFIC SIGNALS QUANTITIES

ITEM	UNIT	ILL 68 RAMP C&D
SIGN PANEL - TYPE 2	SQ METER	4.64
HANDHOLE	EACH	4
HEAVY-DUTY HANDHOLE	EACH	3
DOUBLE HANDHOLE	EACH	1
FULL-ACTUATED CONTROLLER AND TYPE V CABINET	EACH	1
TRANSCIVER - FIBER OPTIC	EACH	1
TRAFFIC SIGNAL BACKPLATE, LOUVERED	EACH	10
INDUCTIVE LOOP DETECTOR	EACH	7
CONDUIT IN TRENCH, 50MM DIA., GALVANIZED STEEL	METER	202.8
CONDUIT IN TRENCH, 65MM DIA., GALVANIZED STEEL	METER	67.6
CONDUIT IN TRENCH, 75MM DIA., GALVANIZED STEEL	METER	11.5
CONDUIT IN TRENCH, 125MM DIA., GALVANIZED STEEL	METER	7
CONDUIT PUSHED, 50MM DIA., GALVANIZED STEEL	METER	44.1
CONDUIT PUSHED, 100MM DIA., GALVANIZED STEEL	METER	96.3
CONDUIT PUSHED, 125MM DIA., GALVANIZED STEEL	METER	18.5
CONDUIT EMBEDDED IN STRUCTURE, 65MM DIA., PVC	METER	23.8
TRENCH AND BACKFILL FOR ELECTRICAL WORK	METER	288.9
ELECTRIC CABLE IN TRENCH, SERVICE, NO. 6 2 C	METER	21.4
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	METER	712
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C	METER	223.5
ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1 PAIR	METER	530.77
TRAFFIC SIGNAL POST, GALVANIZED STEEL 4.25 METER	EACH	2
TRAFFIC SIGNAL POST, GALVANIZED STEEL 4.85 METER	EACH	1
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 8.53 METER	EACH	1
STEEL MAST ARM ASSEMBLY AND POLE 9.14 METER	EACH	1
STEEL MAST ARM ASSEMBLY AND POLE WITH DUAL MAST ARMS, 8.53 METER AND 16.46 METER	EACH	1
CONCRETE FOUNDATION, TYPE A	METER	3.6
CONCRETE FOUNDATION, TYPE C	METER	1.2
CONCRETE FOUNDATION, TYPE E 750MM DIAMETER	METER	14.2
DETECTOR LOOP, PREFORMED	METER	190
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3/C	METER	224.42
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 20 3/C TWISTED SHIELDED	METER	224.48
ELECTRIC CABLE IN CONDUIT, GROUNDING, NO. 6 1C	METER	252.4
CONCRETE FOUNDATION, TYPE E 900MM DIAMETER	METER	4.6
SERVICE INSTALLATION, POLE MOUNTED	EACH	1
SIGNAL HEAD ,LED, 1-FACE, 3-SECTION, MAST-ARM MOUNTED	EACH	9
SIGNAL HEAD ,LED, 1-FACE, 3-SECTION, BRACKET MOUNTED	EACH	4
SIGNAL HEAD ,LED, 2-FACE 1 3-SECTION ,1 5-SECTION, BRACKET	EACH	1
SIGNAL HEAD ,LED, 1-FACE, 5-SECTION, MAST-ARM MOUNTED	EACH	1
LIGHT DETECTOR	EACH	3
LIGHT DETECTOR AMPLIFIER	EACH	1
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 10.36 METER	EACH	1

I.D.O.T. TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS

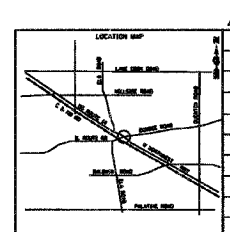
TYPE	NO. OF LAMPS	WATTAGE		% OPERATION	TOTAL WATTAGE
		INCAND.	L.E.D.		
SIGNAL (RED)	16	135	17	0.50	136
(YELLOW)	16	135	25	0.25	100
(GREEN)	16	135	15	0.25	36
ARROW	4	135	12	0.10	4.8
PED. SIGNAL	-	90	25	1.00	-
CONTROLLER	1	100	100	1.00	100
ILLUM. SIGN	-	252	-	0.05	-
FLASHER	-	-	-	-	0.50
TOTAL					400.8



PROPOSED EMERGENCY VEHICLE PREEMPTORS

EMERGENCY VEHICLE PREEMPTORS	3	4
MOVEMENT	←	↑

FOUNDATION (DEPTH)	FT. (m)	CABLE SLACK	FT. (m)	VERTICAL	FT. (m)
TYPE A - POST	4 (1.2)	HANDHOLE	6.5 (2.0)	ALL FOUNDATIONS	3.5 (1.0)
C CONTROLLER	4 (1.2)	DOUBLE HANDHOLE	13 (4.0)	MAST ARM (L) POLE	20'+L-2'- (6m+L-0.6m)
E M. ARM POLE	-	SIGNAL POST	2 (1.0)	BRACKET MOUNTED	13 (4.0)
30" (750MM)	15 (4.6)	CONTROLLER CAB.	1 (0.5)	PED. PUSHBUTTON	4 (1.2)
36" (900MM)	15 (4.6)	FIBER OPTIC	13 (4.0)	ELECTRICAL SERVICE	13.5 (4.1)
		ELECTRICAL SERVICE	1 (0.5)	SERVICE TO GROUND	13.5 (4.1)
		GROUND CABLE	1 (0.5)	POST MOUNTED	6 (1.8)



REVISIONS

NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
ILLINOIS ROUTE 68 AT U.S. ROUTE 14
RAMPS C & D
SCHEDULE OF QUANTITIES, CABLE PLAN AND
PHASE DESIGNATION DIAGRAM

SCALE N.T.S. DRAWN BY R.P.J.
DATE NOVEMBER 2006 DESIGNED BY I.B.
CHECKED BY A.D.O.

Rick Johns - District 01
 06/19/2006 - IL 68 over US 14
 Page: 0000 - IL 68 over US 14
 2/15/2007 1:58:41 PM
 250000 M / M
 250000 M / M
 I.D.O.T. - Cable Diagram - East.dgn

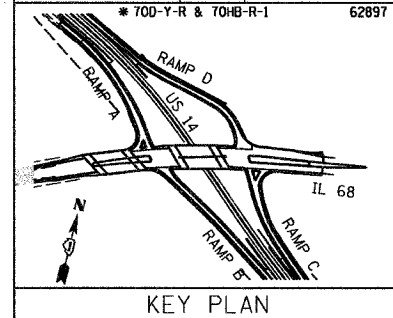
ENERGY COST TO:
ILLINOIS DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAY/DISTRICT 1
201 WEST CENTER COURT/SCHAUMBURG,
ILLINOIS 60196-1096

ENERGY SUPPLY:
CONTACT: JOHN STRZAK
PHONE: 630-491-4363
COMPANY: ComEd

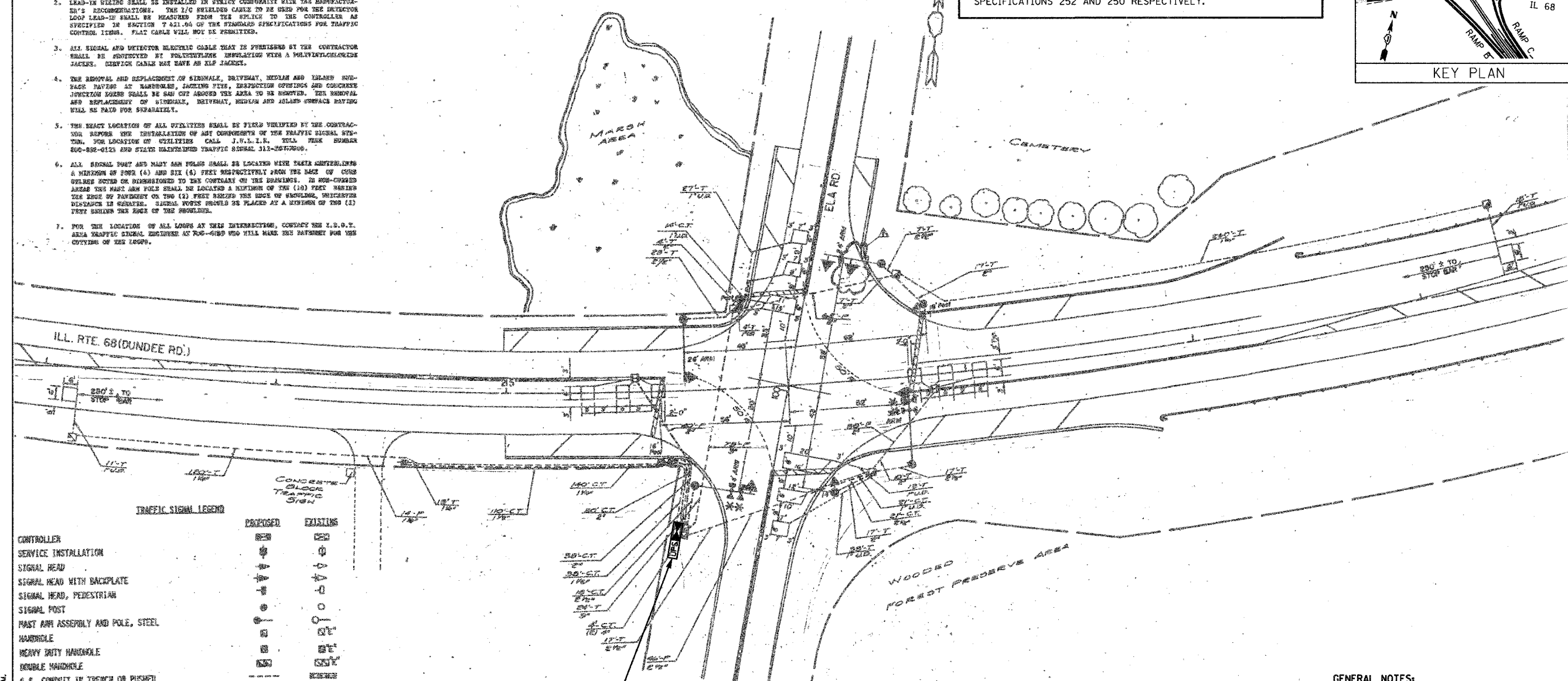
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS NO.	SHEET NO.
343	*	COOK	283	121A
STA.		TO STA.		
FED. ROAD DIST. NO. 1		ILLINOIS FED. AID PROJECT		
* 700-Y-R & 704B-R-1		62897		

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, AND ETC. SHALL BE REPLACED AND ALL DAMAGE TO UNMOWED FIELDS SHALL BE SEEDED IN ACCORDANCE WITH STANDARD SPECIFICATIONS 252 AND 250 RESPECTIVELY.



- GENERAL NOTES**
- ALL DETECTOR LOOPS SHALL CONSIST OF THE NUMBER OF TURNS REQUIRED AND SHALL BE INSTALLED IN STRICT COMPLIANCE WITH THE LOOP DETECTOR MANUFACTURER'S RECOMMENDATIONS. THE DETECTOR LOOP SHALL BE REPAIRED FOR REPAIR PORTION OF ROAD CUT EXPOSED THE PRACTICE AS SPECIFIED IN SECTION 7.419.04 OF THE SPECIFICATIONS FOR TRAFFIC CONTROL ITEMS.
 - LEAD-IN WIZING SHALL BE INSTALLED IN STRICT COMPLIANCE WITH THE MANUFACTURER'S RECOMMENDATIONS. THE 1/2" SHIELDED CABLE TO BE USED FOR THE DETECTOR LOOP LEAD-IN SHALL BE MEASURED FROM THE POINT TO THE CONTROLLER AS SPECIFIED IN SECTION 7.421.06 OF THE STANDARD SPECIFICATIONS FOR TRAFFIC CONTROL ITEMS. FLAT CABLE WILL NOT BE PERMITTED.
 - ALL SIGNAL AND DETECTOR ELECTRIC CABLE THAT IS PROVIDED BY THE CONTRACTOR SHALL BE PROTECTED BY POLYETHYLENE INSULATION WITH A MULTIVULCANIZABLE JACKET. SERVICE CABLE MAY HAVE AN ELP JACKET.
 - THE REMOVAL AND REPLACEMENT OF SIDEWALK, DRIVEWAY, MEDIAN AND ISLAND SURFACE PAVING AT INTERSECTIONS, JUNCTIONS, DRIVEWAYS, DRIVEWAYS AND CONCRETE JUNCTION BOXES SHALL BE DONE CUT AROUND THE AREA TO BE REMOVED. THE REMOVAL AND REPLACEMENT OF SIDEWALK, DRIVEWAY, MEDIAN AND ISLAND SURFACE PAVING WILL BE PAID FOR SEPARATELY.
 - THE EXACT LOCATION OF ALL UTILITIES SHALL BE FIELD VERIFIED BY THE CONTRACTOR BEFORE THE INSTALLATION OF ANY COMPONENTS OF THE TRAFFIC SIGNAL SYSTEM. FOR LOCATION OF UTILITIES CALL J.U.L.I.R. TOLL FREE NUMBER 800-886-0124 AND STATE MAINTENANCE TRAFFIC SIGNAL 312-2677000.
 - ALL SIGNAL POST AND MAST ARM POLES SHALL BE LOCATED WITH THEIR CENTERLINES A MINIMUM OF FOUR (4) AND SIX (6) FEET RESPECTIVELY FROM THE EDGE OF CURB OR SHOULDER OR DIMENSIONED TO THE CONTRARY ON THE DRAWINGS. IN NON-CURBED AREAS THE MAST ARM POLES SHALL BE LOCATED A MINIMUM OF THE (10) FEET FROM THE EDGE OF PAVEMENT OR TWO (2) FEET FROM THE EDGE OF SHOULDER, UNLESS OTHERWISE DIMENSIONED IN SEPARATE LEGEND. LEGEND WORK SHOULD BE PLACED AT A MINIMUM OF TWO (2) FEET FROM THE EDGE OF THE SHOULDER.
 - FOR THE LOCATION OF ALL LOOPS AT THIS INTERSECTION, CONTACT THE I.D.O.T. AREA TRAFFIC SIGNAL ENGINEER AT 700-6189 WHO WILL MAKE THE PAYMENT FOR THE COVERAGE OF THE LOOPS.



TRAFFIC SIGNAL LEGEND

	PROPOSED	EXISTING
CONTROLLER	[Symbol]	[Symbol]
SERVICE INSTALLATION	[Symbol]	[Symbol]
SIGNAL HEAD	[Symbol]	[Symbol]
SIGNAL HEAD WITH BACKPLATE	[Symbol]	[Symbol]
SIGNAL HEAD, PEDESTRIAN	[Symbol]	[Symbol]
SIGNAL POST	[Symbol]	[Symbol]
MAST ARM ASSEMBLY AND POLE, STEEL	[Symbol]	[Symbol]
HANDHOLE	[Symbol]	[Symbol]
HEAVY DUTY HANDHOLE	[Symbol]	[Symbol]
DOUBLE HANDHOLE	[Symbol]	[Symbol]
G.S. CONDUIT IN TRENCH OR PUSHED	[Symbol]	[Symbol]
PEDESTRIAN PUSHBUTTON DETECTOR	[Symbol]	[Symbol]
DETECTOR LOOP	[Symbol]	[Symbol]
CONCRETE JUNCTION BOX	[Symbol]	[Symbol]
CAST IRON JUNCTION BOX	[Symbol]	[Symbol]
COMMON TRENCH	[Symbol]	[Symbol]
MAST ARM ASSEMBLY AND POLE, ALUMINUM	[Symbol]	[Symbol]
EMERGENCY VEHICLE SYSTEM DETECTOR	[Symbol]	[Symbol]
SIGNAL HEAD OPTICALLY PROGRAMMED	[Symbol]	[Symbol]
CONDUIT SPLICE	[Symbol]	[Symbol]
WOOD POLE	[Symbol]	[Symbol]
WIZING FOR MAGNETIC DETECTOR, TYPE I OR TYPE II	[Symbol]	[Symbol]
VEHICLE DETECTOR, NON COMPENSATED MAGNETIC TYPE	[Symbol]	[Symbol]
RAILROAD CONTROL CABINET	[Symbol]	[Symbol]
CONFIRMATION BEACON	[Symbol]	[Symbol]

REMOVE EXISTING CONTROLLER & INSTALL NEW CONTROLLER WITH TRANSCEIVER & UPS UNIT. RECONNECT ALL EXISTING CONNECTIONS COMPLETE AND OPERATIONAL. REUSE EXISTING FOUNDATION.

△-Notes:
Add 3 section head
SB Mast 10 feet from end.

GENERAL NOTES:
1. NEW WORK IS SHOWN AS BOLD.

NEW DRAWING
TS-09AOF 13

REVISIONS	
NAME	DATE
ADDENDUM 2	02/15/07

ILLINOIS DEPARTMENT OF TRANSPORTATION

**IL RTE 68 & ELA ROAD
PROPOSED TRAFFIC SIGNAL PLAN**

SCALE NONE
DATE NOVEMBER 2006

DRAWN BY R.P.J.
DESIGNED BY I.B.
CHECKED BY A.D.O.

Plot: johna
06/19/2006 - IL 68 over US 14
06/19/2006 - IL 68 over US 14
06/19/2006 - IL 68 over US 14
2/15/2007 12:37:02 PM 1:0000 M / M.

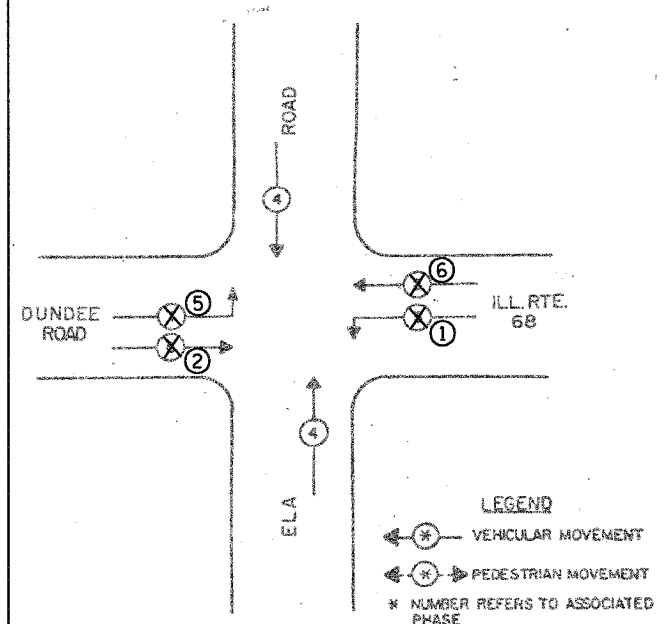
* THESE ITEMS INCLUDED IN CONTRACT FOR INSTALLATION OF EMERGENCY VEHICLE PRE-EMPTION EQUIPMENT

* Plans Revised by JAMES J. DENES AND ASSOCIATES, INC.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
343	#	COOK	283	121B
STA.		TO STA.		
FED. ROAD DIST. NO. 1		ILLINOIS FED. AID PROJECT		
		* 70D-Y-R & 70MB-R-1		62897

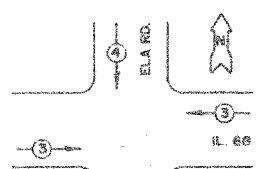
CONTROLLER SEQUENCE

REFERRING TO STANDARD 85700, THE VEHICULAR AND PEDESTRIAN PHASES USED ARE DESIGNATED BELOW.



PHASE DESIGNATION DIAGRAM

* EMERGENCY VEHICLE PREEMPTION SEQUENCE NOTES FOR DUAL ENTRY OPERATION - ALL LEGS



EMERGENCY VEHICLE PREEMPTIONS		
EMERGENCY VEHICLE PREEMPTION	3	4
MOVEMENT	←	→

NOTES:

- ONCE PREEMPTION HAS BEEN CALLED, TERMINATION OF A PHASE(S) SHALL BE IDENTICAL TO THE NORMAL SEQUENCE OF OPERATION'S TERMINATION OF A PHASE(S) AS DESCRIBED IN STANDARD 857001.
- CONTINUATION OR TERMINATION OF ALL RIGHT TURN OVERLAPS SHALL BE IDENTICAL TO THE NORMAL SEQUENCE OF OPERATION'S CONTINUATION OR TERMINATION OF RIGHT TURN OVERLAPS AS DESCRIBED IN THE CLEARANCE NOTES FOR RIGHT TURN OVERLAPS.
- TERMINATION OF ALL PEDESTRIAN PHASE(S) SHALL INCLUDE A FULL FLASHING "DON'T WALK" INTERVAL.
- IF ALL RED CLEARANCE IS USED IN THE NORMAL SEQUENCE OF OPERATION, IT MUST BE DISPLAYED AFTER THE YELLOW CLEARANCE INTERVAL WHEN ENTERING OR LEAVING THE PREEMPTION SEQUENCE.

SCHEDULE OF QUANTITIES		
1	EACH	TRAFFIC CONTROL AND PROTECTION
250	FOOT	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3/C
250	FOOT	ELECTRIC CABLE IN CONDUIT NO. 20 3/C, TWISTED, SHIELDED
1	EACH	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION
2	EACH	LIGHT DETECTOR
1	EACH	LIGHT DETECTOR AMPLIFIER

* EXISTING CONTROL EQUIPMENT AT THIS LOCATION IS TRACONEX TSP280

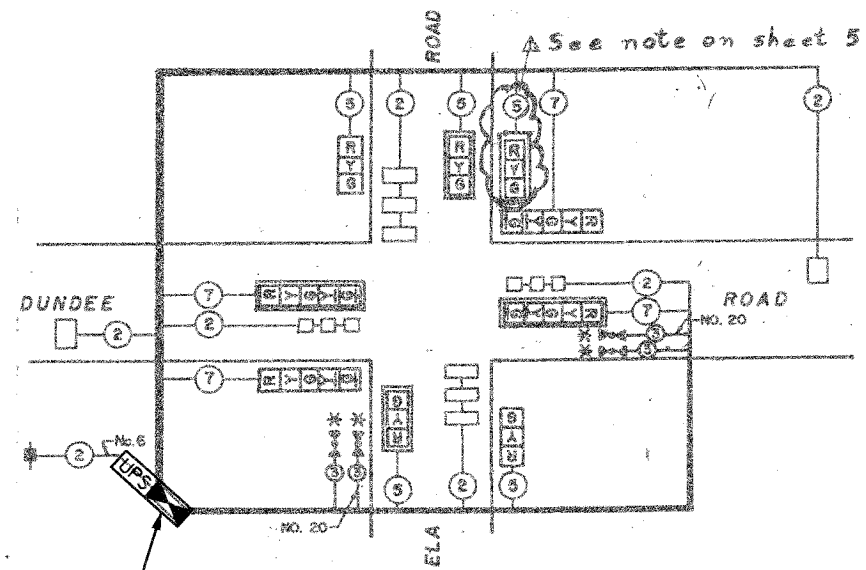
* NOTE: THE PAY ITEM "TRAFFIC CONTROL AND PROTECTION" APPEARS IN THE SCHEDULE OF QUANTITIES FOR EACH INTERSECTION INCLUDED IN THIS PROJECT. IT SHALL BE PAID FOR AS A LUMP SUM ONCE, FOR THE ENTIRE PROJECT.

TRAFFIC SIGNALS QUANTITIES		
ITEM	UNIT	ELA RD & IL 68
FULL-ACTUATED CONTROLLER AND TYPE IV CABINET	EACH	1
TRANSCIVER - FIBER OPTIC	EACH	1
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1

THE FOLLOWING EXISTING TRAFFIC SIGNAL EQUIPMENT SHALL BE REMOVED BY THE CONTRACTOR, SHALL REMAIN THE PROPERTY OF THE STATE AND SHALL BE DELIVERED BY THE CONTRACTOR TO THE STATE'S TRAFFIC SIGNAL MAINTENANCE CONTRACTOR'S MAIN FACILITY AS PER THE TRAFFIC SIGNAL SPECIFICATIONS.
1 EACH CONTROLLER AND CABINET (COMPLETE)

* THESE ITEMS INCLUDED IN CONTRACT FOR INSTALLATION OF EMERGENCY VEHICLE PRE-EMPTION EQUIPMENT

CABLE PLAN



REMOVE EXISTING CONTROLLER & INSTALL NEW CONTROLLER WITH TRANSCIVER & UPS UNIT. RECONNECT ALL EXISTING CONNECTIONS COMPLETE AND OPERATIONAL. REUSE EXISTING FOUNDATION.

CABLE PLAN LEGEND

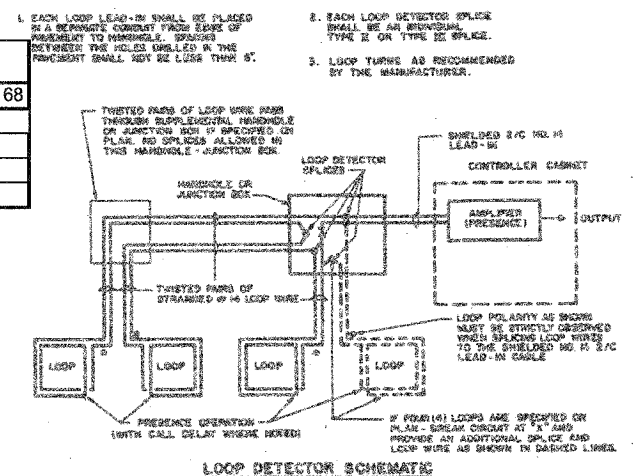
- 8" TRAFFIC SIGNAL SECTION
- 12" TRAFFIC SIGNAL SECTION
- CONTROLLER CABINET
- SERVICE INSTALLATION
- VEHICLE DETECTOR, INDUCTION LOOP
- INDICATES NUMBER OF CONDUCTORS (NEW) ALL LOOP DETECTOR CABLE TO BE SHIELDED. ALL CABLE NO. 14 EXCEPT AS INDICATED.
- INDICATES EXISTING CABLE
- MAGNETIC DETECTOR
- EMERGENCY VEHICLE SYSTEM DETECTOR
- SIGNAL FACE WITH BACKPLATE 'P' INDICATES PROGRAMMED
- CONFIRMATION BEACON

SCHEDULE OF SIGNAL HEADS

2	EACH	SIGNAL HEAD, ALUMINUM, 1-FACE, 5-SECTION WITH 12" LENSES, MAST ARM MOUNTED
2	EACH	SIGNAL HEAD, ALUMINUM, 1-FACE, 5-SECTION WITH 12" LENSES, BRACKET MOUNTED
2	EACH	SIGNAL HEAD, ALUMINUM, 1-FACE, 3-SECTION WITH 12" LENSES, MAST ARM MOUNTED
2	EACH	SIGNAL HEAD, ALUMINUM, 1-FACE, 3-SECTION WITH 12" LENSES, BRACKET MOUNTED

I.D.O.T. TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS					TOTAL WATTAGE
TYPE	NO. OF LAMPS	WATTAGE INCAND.	L.E.D.	% OPERATION	
SIGNAL (RED)	9	135	17	0.50	76.5
(YELLOW)	9	135	25	0.25	56.25
(GREEN)	9	135	15	0.25	33.75
ARROW	8	135	12	0.10	9.6
PED. SIGNAL	-	90	25	1.00	-
CONTROLLER	1	100	100	1.00	100
ILLUM. SIGN	-	252		0.05	-
FLASHER	-			0.50	-
TOTAL					276.1

GENERAL NOTES:
1. NEW WORK IS SHOWN AS BOLD.



LOOP DETECTOR SCHEMATIC

REVISIONS	
NAME	DATE
ADDENDUM 2	02/15/07

NEW DRAWING
TS-09B OF 13

ILLINOIS DEPARTMENT OF TRANSPORTATION
IL RTE 68 & ELA ROAD
SCHEDULE OF QUANTITIES, CABLE PLAN AND PHASE DESIGNATION DIAGRAM

SCALE NONE
DATE NOVEMBER 2006
DRAWN BY R.P.-J.
DESIGNED BY I.B.
CHECKED BY A.D.O.

Rick Johns - District 01
 I.D.O.T. - District 01
 2/15/2007 1:59:43 PM
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 File: Drawing Files\Bentley-TS-09-B - IL Rte 68 & El Road.dwg

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
343	*	COOK	283	121C
STA.		TO STA.		
FED. ROAD DIST. NO. 1		ILLINOIS FED. AID PROJECT		
		* 70D-Y-R & 70HB-R-1		62897

RESTORATION OF WORK AREA

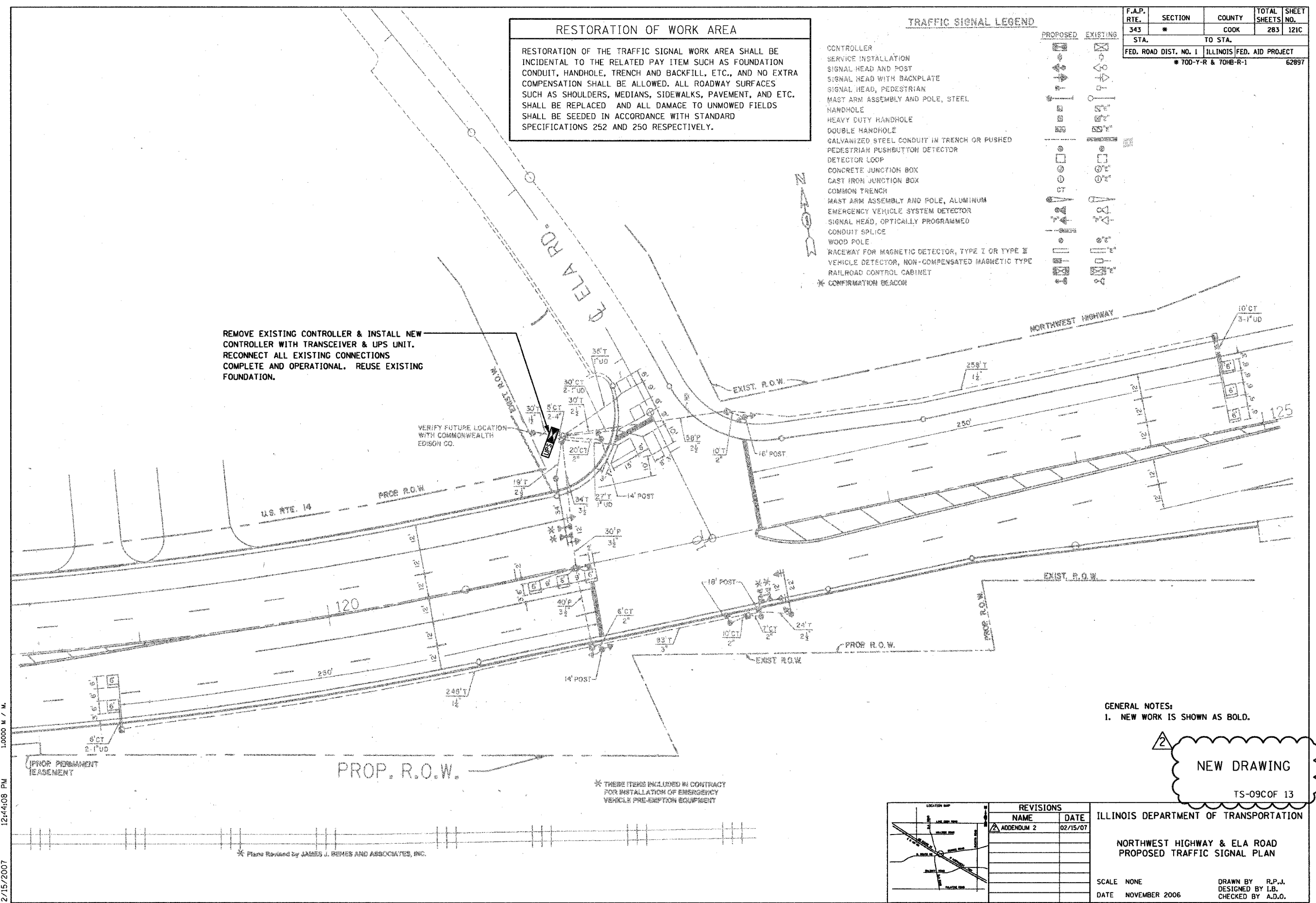
RESTORATION OF THE TRAFFIC SIGNAL WORK AREA SHALL BE INCIDENTAL TO THE RELATED PAY ITEM SUCH AS FOUNDATION CONDUIT, HANDHOLE, TRENCH AND BACKFILL, ETC., AND NO EXTRA COMPENSATION SHALL BE ALLOWED. ALL ROADWAY SURFACES SUCH AS SHOULDERS, MEDIANS, SIDEWALKS, PAVEMENT, AND ETC. SHALL BE REPLACED AND ALL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

TRAFFIC SIGNAL LEGEND

- | | | |
|--|----------|----------|
| | PROPOSED | EXISTING |
| CONTROLLER | | |
| SERVICE INSTALLATION | | |
| SIGNAL HEAD AND POST | | |
| SIGNAL HEAD WITH BACKPLATE | | |
| SIGNAL HEAD, PEDESTRIAN | | |
| MAST ARM ASSEMBLY AND POLE, STEEL | | |
| HANDHOLE | | |
| HEAVY DUTY HANDHOLE | | |
| DOUBLE HANDHOLE | | |
| GALVANIZED STEEL CONDUIT IN TRENCH OR PUSHED | | |
| PEDESTRIAN PUSHBUTTON DETECTOR | | |
| DETECTOR LOOP | | |
| CONCRETE JUNCTION BOX | | |
| CAST IRON JUNCTION BOX | | |
| COMMON TRENCH | | |
| MAST ARM ASSEMBLY AND POLE, ALUMINUM | | |
| EMERGENCY VEHICLE SYSTEM DETECTOR | | |
| SIGNAL HEAD, OPTICALLY PROGRAMMED | | |
| CONDUIT SPLICE | | |
| WOOD POLE | | |
| RACEWAY FOR MAGNETIC DETECTOR, TYPE I OR TYPE II | | |
| VEHICLE DETECTOR, NON-COMPENSATED MAGNETIC TYPE | | |
| RAILROAD CONTROL CABINET | | |
| * CONFIRMATION BEACON | | |

REMOVE EXISTING CONTROLLER & INSTALL NEW CONTROLLER WITH TRANSCEIVER & UPS UNIT. RECONNECT ALL EXISTING CONNECTIONS COMPLETE AND OPERATIONAL. REUSE EXISTING FOUNDATION.

VERIFY FUTURE LOCATION WITH COMMONWEALTH EDISON CO.

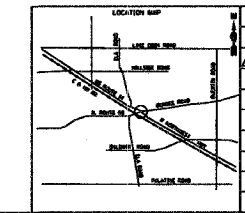


GENERAL NOTES:
1. NEW WORK IS SHOWN AS BOLD.

NEW DRAWING
TS-09C OF 13

* THESE ITEMS INCLUDED IN CONTRACT FOR INSTALLATION OF EMERGENCY VEHICLE PRE-EMPTION EQUIPMENT

* Plans Revised by JAMES J. REMES AND ASSOCIATES, INC.



REVISIONS	
NAME	DATE
ADDENDUM 2	02/15/07

ILLINOIS DEPARTMENT OF TRANSPORTATION
NORTHWEST HIGHWAY & ELA ROAD
PROPOSED TRAFFIC SIGNAL PLAN
SCALE NONE
DATE NOVEMBER 2006
DRAWN BY R.P.J.
DESIGNED BY I.B.
CHECKED BY A.D.O.

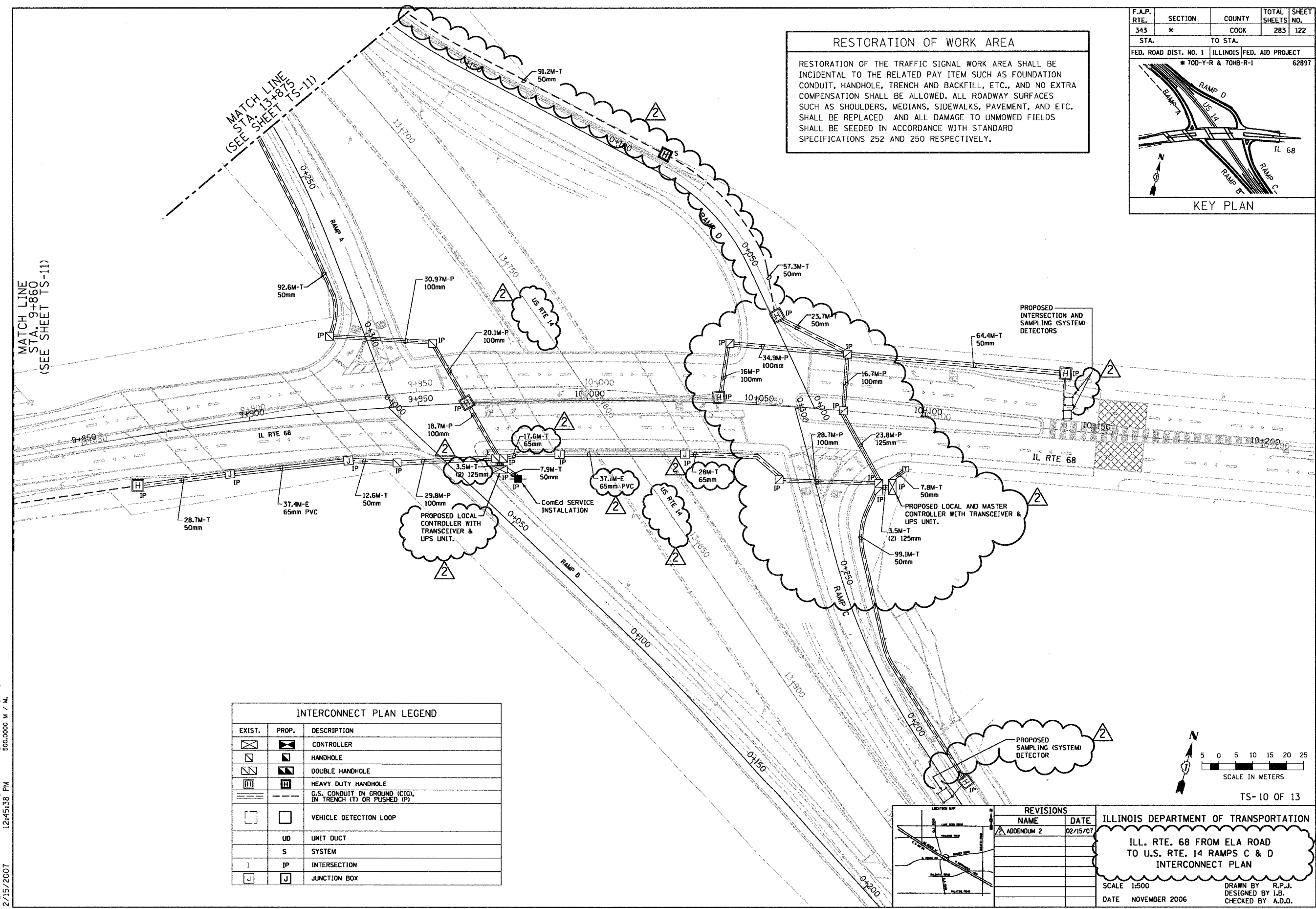
Rick Johns
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 2/15/2007

F.A.P. RTE.	SECTION #	COUNTY	TOTAL SHEETS	SHEET NO.
343	*	COOK	283	122
STA. 9+860		TO STA. 13+815		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				
* 700-Y-R & 704B-R-1 62897				

KEY PLAN

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, AND ETC. SHALL BE REPLACED AND ALL DAMAGE TO UNMOWED FIELDS SHALL BE SEEDING IN ACCORDANCE WITH STANDARD SPECIFICATIONS 252 AND 250 RESPECTIVELY.



EXIST.	PROP.	DESCRIPTION
[Symbol]	[Symbol]	CONTROLLER
[Symbol]	[Symbol]	HANDHOLE
[Symbol]	[Symbol]	DOUBLE HANDHOLE
[Symbol]	[Symbol]	HEAVY DUTY HANDHOLE
[Symbol]	[Symbol]	G.S. CONDUIT IN GROUND (CIG), IN TRENCH (T) OR PUSHED (IP)
[Symbol]	[Symbol]	VEHICLE DETECTION LOOP
	UD	UNIT DUCT
	S	SYSTEM
	I	INTERSECTION
	J	JUNCTION BOX

NAME	DATE
ADDENDUM 2	02/15/07

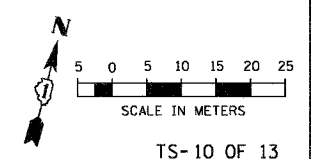
ILLINOIS DEPARTMENT OF TRANSPORTATION

ILL. RTE. 68 FROM ELA ROAD TO U.S. RTE. 14 RAMP C & D INTERCONNECT PLAN

SCALE 1:500
DATE NOVEMBER 2006

DRAWN BY R.P.J.
DESIGNED BY I.B.
CHECKED BY A.D.O.

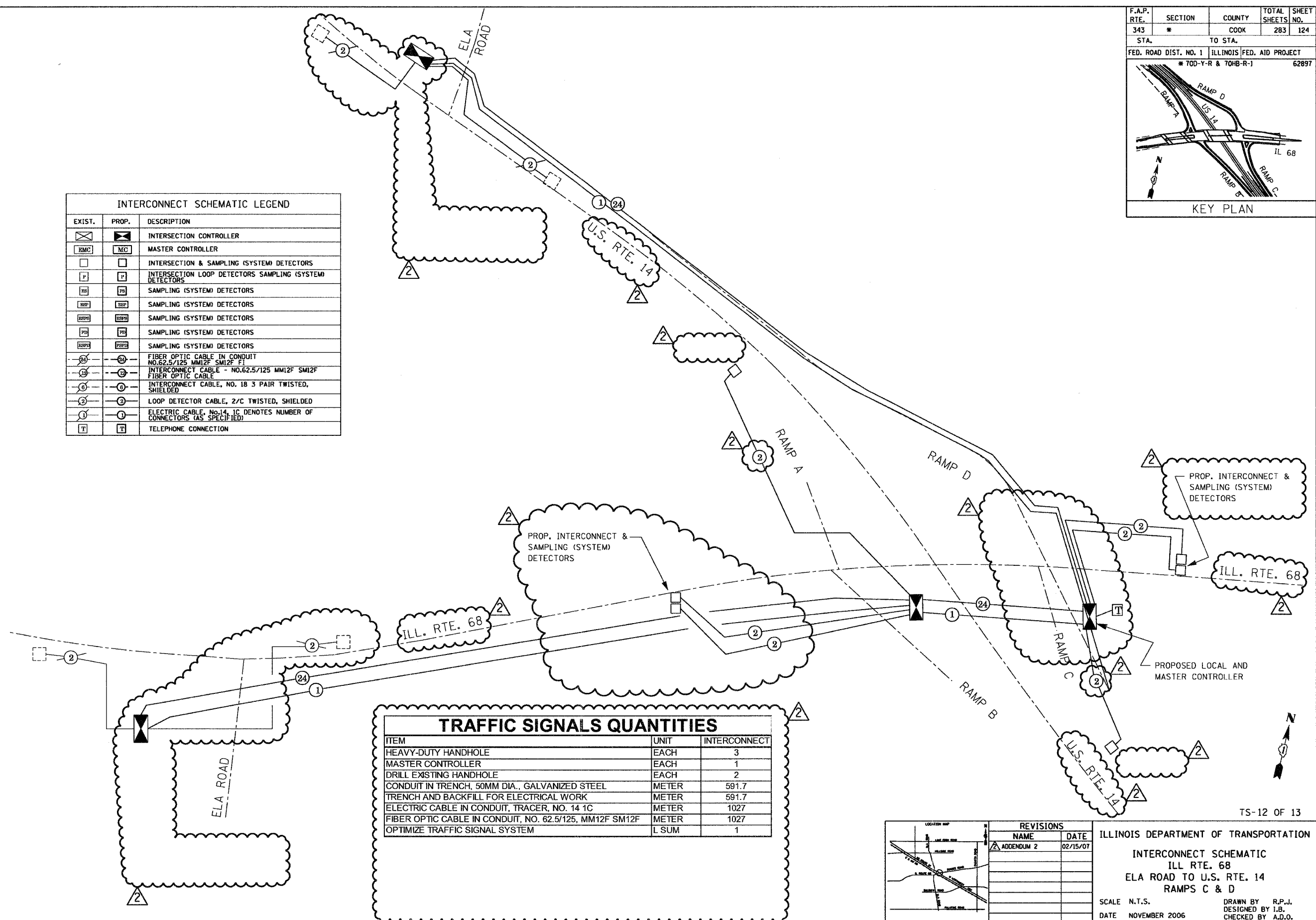
Rick Johns - District 01
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 Cable Interconnect Plan.dgn



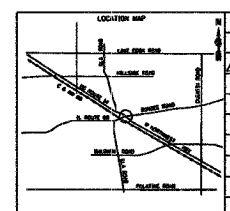
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
343	#	COOK	283	124
STA.		TO STA.		
FED. ROAD DIST. NO. 1		ILLINOIS FED. AID PROJECT		
* 70D-Y-R & 70HB-R-1		62897		

KEY PLAN

INTERCONNECT SCHEMATIC LEGEND		
EXIST.	PROP.	DESCRIPTION
		INTERSECTION CONTROLLER
		MASTER CONTROLLER
		INTERSECTION & SAMPLING (SYSTEM) DETECTORS
		INTERSECTION LOOP DETECTORS SAMPLING (SYSTEM) DETECTORS
		SAMPLING (SYSTEM) DETECTORS
		SAMPLING (SYSTEM) DETECTORS
		SAMPLING (SYSTEM) DETECTORS
		SAMPLING (SYSTEM) DETECTORS
		SAMPLING (SYSTEM) DETECTORS
		SAMPLING (SYSTEM) DETECTORS
		FIBER OPTIC CABLE IN CONDUIT NO. 62.5/125 MM12F SM12F F1
		INTERCONNECT CABLE - NO. 62.5/125 MM12F SM12F FIBER OPTIC CABLE
		INTERCONNECT CABLE, NO. 18 3 PAIR TWISTED, SHIELDED
		LOOP DETECTOR CABLE, 2/C TWISTED, SHIELDED
		ELECTRIC CABLE, NO. 14 1C DENOTES NUMBER OF CONNECTORS (AS SPECIFIED)
		TELEPHONE CONNECTION



TRAFFIC SIGNALS QUANTITIES		
ITEM	UNIT	INTERCONNECT
HEAVY-DUTY HANDHOLE	EACH	3
MASTER CONTROLLER	EACH	1
DRILL EXISTING HANDHOLE	EACH	2
CONDUIT IN TRENCH, 50MM DIA., GALVANIZED STEEL	METER	591.7
TRENCH AND BACKFILL FOR ELECTRICAL WORK	METER	591.7
ELECTRIC CABLE IN CONDUIT, TRACER, NO. 14 1C	METER	1027
FIBER OPTIC CABLE IN CONDUIT, NO. 62.5/125, MM12F SM12F	METER	1027
OPTIMIZE TRAFFIC SIGNAL SYSTEM	L SUM	1

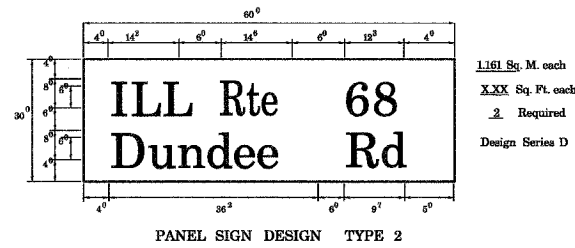


REVISIONS	
NAME	DATE
ADDENDUM 2	02/15/07

ILLINOIS DEPARTMENT OF TRANSPORTATION
 INTERCONNECT SCHEMATIC
 ILL RTE. 68
 ELA ROAD TO U.S. RTE. 14
 RAMPS C & D
 SCALE N.T.S. DRAWN BY R.P.J.
 DATE NOVEMBER 2006 DESIGNED BY I.B.
 CHECKED BY A.D.O.

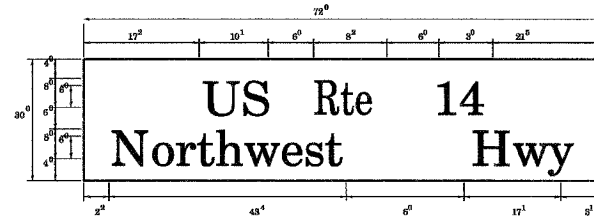
Rick Johns
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 Cable Interconnect Schematic.dgn

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
343	*	COOK	283	125
STA.		TO STA.		
FED. ROAD DIST. NO. 1		ILLINOIS FED. AID PROJECT		
		* 70D-Y-R & 70H-R-1		
		62897		



PANEL SIGN DESIGN TYPE 2

1.161 Sq. M. each
 XXX Sq. Ft. each
 2 Required
 Design Series D



PANEL SIGN DESIGN TYPE 2

1.161 Sq. M. each
 XXX Sq. Ft. each
 2 Required
 Design Series C

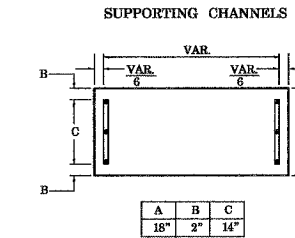
GENERAL NOTES

- 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 S3400, S3408 AND S3401, AS APPLICABLE, PLUS TWO (2) SIGN PANELS 2'-6" x 6'-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 2-3/4".
- 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:
 - * A.K.T. CORPORATION, SCHAUMBURG, IL
 - * AMERICAN FABRICATION CO., CHICAGO HEIGHTS, IL
 - * TUCKER COMPANY, INC., WAUWATOSA, WI
 - * WESTERN TRAFFIC CONTROL INC., CICERO, IL

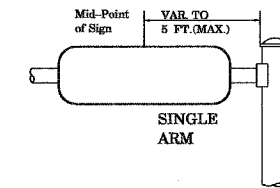
PARTS LISTING:

- SIGN CHANNEL PART #HPN03 (MED. CHANNEL)
- SIGN SCREWS 1/4" x 14 x 1" H.W.H. #3
- BRACKETS SELF TAPPING WITH NEOPRENE WASHER
- PART #HPN034 (UNIVERSAL)
- CHANNEL CLAMPS WITH STAINLESS STEEL STRAPPING

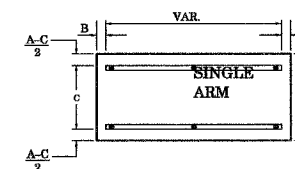
OTHER BRANDS OF MOUNTING HARDWARE ARE ACCEPTABLE, BASED UPON THE DEPARTMENT'S APPROVAL AND COMPATIBILITY WITH THE CHANNEL/BACKET OF THE ABOVE PRODUCT.



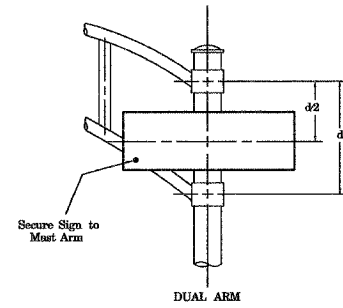
A	B	C
18"	2"	14"



SUPPORTING CHANNELS



A	B	C
18"	2"	12"
30"	2"	22"



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	d	e	g	o	q	b	h	k	l	m	n	p	r	u	f	w	j	s	t	v	y	x	z
A W X	1 ²	1 ⁴	1 ⁴	1 ⁵	1 ⁵	1 ⁵	1 ⁵	1 ⁵	1 ⁵	1 ⁵	1 ⁵	1 ⁵	1 ⁵	1 ⁵	1 ⁵	1 ⁵	1 ⁵	1 ⁵	1 ⁵	1 ⁵	1 ⁵	1 ⁵	1 ⁵	1 ⁵	1 ⁵
B	1 ⁴	1 ⁵	2 ⁰	2 ¹	1 ⁴	1 ⁵	1 ⁵	1 ⁵	1 ⁵	1 ⁵	1 ⁵	1 ⁵	1 ⁵	1 ⁵	1 ⁵	1 ⁵	1 ⁵	1 ⁵	1 ⁵	1 ⁵	1 ⁵	1 ⁵	1 ⁵	1 ⁵	1 ⁵
C E G	1 ⁴	1 ⁵	2 ⁰	2 ¹	1 ⁴	1 ⁵	1 ⁵	1 ⁵	1 ⁵	1 ⁵	1 ⁵	1 ⁵	1 ⁵	1 ⁵	1 ⁵	1 ⁵	1 ⁵	1 ⁵	1 ⁵	1 ⁵	1 ⁵	1 ⁵	1 ⁵	1 ⁵	1 ⁵
D O Q R	1 ⁴	1 ⁵	2 ⁰	2 ¹	1 ⁴	1 ⁵	1 ⁵	1 ⁵	1 ⁵	1 ⁵	1 ⁵	1 ⁵	1 ⁵	1 ⁵	1 ⁵	1 ⁵	1 ⁵	1 ⁵	1 ⁵	1 ⁵	1 ⁵	1 ⁵	1 ⁵	1 ⁵	1 ⁵
F	0 ⁵	0 ⁶	1 ⁴	1 ⁵	0 ⁶	1 ⁰	0 ⁶	0 ⁶	0 ⁶	0 ⁶	0 ⁶	0 ⁶	0 ⁶	0 ⁶	0 ⁶	0 ⁶	0 ⁶	0 ⁶	0 ⁶	0 ⁶	0 ⁶	0 ⁶	0 ⁶	0 ⁶	0 ⁶
H I M N	2 ⁰	2 ¹	2 ²	2 ⁴	2 ⁴	2 ⁴	2 ⁴	2 ⁴	2 ⁴	2 ⁴	2 ⁴	2 ⁴	2 ⁴	2 ⁴	2 ⁴	2 ⁴	2 ⁴	2 ⁴	2 ⁴	2 ⁴	2 ⁴	2 ⁴	2 ⁴	2 ⁴	2 ⁴
J U	2 ⁰	2 ¹	2 ⁰	2 ¹	1 ⁶	1 ⁷	1 ⁴	1 ⁵	1 ⁶	1 ⁶	1 ⁶	1 ⁶	1 ⁶	1 ⁶	1 ⁶	1 ⁶	1 ⁶	1 ⁶	1 ⁶	1 ⁶	1 ⁶	1 ⁶	1 ⁶	1 ⁶	1 ⁶
K L	1 ¹	1 ²	1 ⁵	1 ⁷	1 ¹	1 ²	0 ⁶	0 ⁶	1 ¹	1 ²	1 ¹	1 ²	1 ¹	1 ²	1 ¹	1 ²	1 ¹	1 ²	1 ¹	1 ²	1 ¹	1 ²	1 ¹	1 ²	1 ¹
P	1 ²	1 ⁴	1 ⁴	1 ⁵	1 ²	1 ⁴	0 ⁶	0 ⁶	1 ¹	1 ²	1 ¹	1 ²	1 ¹	1 ²	1 ¹	1 ²	1 ¹	1 ²	1 ¹	1 ²	1 ¹	1 ²	1 ¹	1 ²	1 ¹
S	1 ²	1 ⁴	1 ⁵	1 ⁷	1 ²	1 ⁴	0 ⁶	0 ⁶	1 ¹	1 ²	1 ¹	1 ²	1 ¹	1 ²	1 ¹	1 ²	1 ¹	1 ²	1 ¹	1 ²	1 ¹	1 ²	1 ¹	1 ²	1 ¹
T	1 ¹	1 ²	1 ⁵	1 ⁷	0 ⁶	0 ⁶	0 ⁶	0 ⁶	1 ¹	1 ²	1 ¹	1 ²	1 ¹	1 ²	1 ¹	1 ²	1 ¹	1 ²	1 ¹	1 ²	1 ¹	1 ²	1 ¹	1 ²	1 ¹
V	0 ⁶	1 ⁰	1 ⁴	1 ⁵	1 ¹	1 ²	0 ⁶	0 ⁶	1 ¹	1 ²	1 ¹	1 ²	1 ¹	1 ²	1 ¹	1 ²	1 ¹	1 ²	1 ¹	1 ²	1 ¹	1 ²	1 ¹	1 ²	1 ¹
Y	0 ⁶	0 ⁶	1 ⁴	1 ⁵	0 ⁶	1 ⁰	0 ⁶	0 ⁶	0 ⁶	0 ⁶	0 ⁶	0 ⁶	0 ⁶	0 ⁶	0 ⁶	0 ⁶	0 ⁶	0 ⁶	0 ⁶	0 ⁶	0 ⁶	0 ⁶	0 ⁶	0 ⁶	0 ⁶
Z	1 ⁶	1 ⁷	2 ²	2 ⁴	1 ⁶	1 ⁷	1 ²	1 ⁴	1 ⁵	1 ⁶	1 ⁷	1 ²	1 ⁴	1 ⁵	1 ⁶	1 ⁷	1 ²	1 ⁴	1 ⁵	1 ⁶	1 ⁷	1 ²	1 ⁴	1 ⁵	1 ⁶

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

SERIES	SECOND LETTER																								
	a	c	d	e	g	o	q	b	h	k	l	m	n	p	r	u	f	w	j	s	t	v	y	x	z
a d h g i j	1 ⁶	1 ⁷	2 ²	2 ⁴	1 ⁶	1 ⁷	1 ²	1 ⁴	1 ⁵	1 ⁶	1 ⁷	1 ²	1 ⁴	1 ⁵	1 ⁶	1 ⁷	1 ²	1 ⁴	1 ⁵	1 ⁶	1 ⁷	1 ²	1 ⁴	1 ⁵	1 ⁶
l m n q u	1 ⁶	1 ⁷	2 ²	2 ⁴	1 ⁶	1 ⁷	1 ²	1 ⁴	1 ⁵	1 ⁶	1 ⁷	1 ²	1 ⁴	1 ⁵	1 ⁶	1 ⁷	1 ²	1 ⁴	1 ⁵	1 ⁶	1 ⁷	1 ²	1 ⁴	1 ⁵	1 ⁶
b f k o p s	1 ²	1 ⁴	1 ⁵	1 ⁷	1 ²	1 ⁴	0 ⁶	0 ⁶	1 ¹	1 ²	1 ¹	1 ²	1 ¹	1 ²	1 ¹	1 ²	1 ¹	1 ²	1 ¹	1 ²	1 ¹	1 ²	1 ¹	1 ²	1 ¹
c e	1 ²	1 ⁴	1 ⁵	1 ⁷	1 ²	1 ⁴	0 ⁶	0 ⁶	1 ¹	1 ²	1 ¹	1 ²	1 ¹	1 ²	1 ¹	1 ²	1 ¹	1 ²	1 ¹	1 ²	1 ¹	1 ²	1 ¹	1 ²	1 ¹
r	0 ⁶	1 ⁰	1 ⁴	1 ⁵	1 ¹	1 ²	0 ⁶	0 ⁶	1 ¹	1 ²	1 ¹	1 ²	1 ¹	1 ²	1 ¹	1 ²	1 ¹	1 ²	1 ¹	1 ²	1 ¹	1 ²	1 ¹	1 ²	1 ¹
t z	1 ²	1 ⁴	1 ⁵	1 ⁷	1 ²	1 ⁴	0 ⁶	0 ⁶	1 ¹	1 ²	1 ¹	1 ²	1 ¹	1 ²	1 ¹	1 ²	1 ¹	1 ²	1 ¹	1 ²	1 ¹	1 ²	1 ¹	1 ²	1 ¹
v y	1 ¹	1 ²	1 ⁴	1 ⁵	1 ¹	1 ²	0 ⁶	0 ⁶	1 ¹	1 ²	0 ⁶	0 ⁶	1 ¹	1 ²	0 ⁶	0 ⁶	1 ¹	1 ²	0 ⁶	0 ⁶	1 ¹	1 ²	0 ⁶	0 ⁶	1 ¹
w	1 ¹	1 ²	1 ⁴	1 ⁵	1 ¹	1 ²	0 ⁶	0 ⁶	1 ¹	1 ²	0 ⁶	0 ⁶	1 ¹	1 ²	0 ⁶	0 ⁶	1 ¹	1 ²	0 ⁶	0 ⁶	1 ¹	1 ²	0 ⁶	0 ⁶	1 ¹
x	1 ²	1 ⁴	1 ⁵	1 ⁷	1 ²	1 ⁴	0 ⁶	0 ⁶	1 ¹	1 ²	1 ¹	1 ²	1 ¹	1 ²	1 ¹	1 ²	1 ¹	1 ²	1 ¹	1 ²	1 ¹	1 ²	1 ¹	1 ²	1 ¹

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	1 ⁶	1 ⁷	1 ⁷	1 ⁷	1 ⁷	1 ⁷	1 ⁷	1 ⁷	1 ⁷	1 ⁷
1	0 ⁶	2 ¹	2 ¹	2 ¹	2 ¹	2 ¹	2 ¹	2 ¹	2 ¹	2 ¹
2 3 4	1 ¹	1 ¹	1 ¹	1 ¹	1 ¹	1 ¹	1 ¹	1 ¹	1 ¹	1 ¹
5	1 ¹	1 ¹	1 ¹	1 ¹	1 ¹	1 ¹	1 ¹	1 ¹	1 ¹	1 ¹
6	1 ¹	1 ¹	1 ¹	1 ¹	1 ¹	1 ¹	1 ¹	1 ¹	1 ¹	1 ¹
7	1 ¹	1 ¹	1 ¹	1 ¹	1 ¹	1 ¹	1 ¹	1 ¹	1 ¹	1 ¹
8	1 ¹	1 ¹	1 ¹	1 ¹	1 ¹	1 ¹	1 ¹	1 ¹	1 ¹	1 ¹
9	1 ¹	1 ¹	1 ¹	1 ¹	1 ¹	1 ¹	1 ¹	1 ¹	1 ¹	1 ¹
0	3 ⁴	4 ²	4 ⁶	5 ⁵						

UPPER AND LOWER CASE LETTER WIDTHS

SERIES	6 INCH UPPER CASE LETTERS				8 INCH UPPER CASE LETTERS				6 INCH LOWER CASE LETTERS			
	C	D	C	D	C	D	C	D	C	D	C	D
A	3 ⁶	5 ⁰	5 ⁰	6 ⁵	a	3 ⁵	4 ²					
B	3 ²	4 ⁰	4 ³	5 ³	b	3 ⁵	4 ²					
C	3 ²	4 ⁰	4 ³	5 ³	c	3 ⁵	4 ¹					
D	3 ²	4 ⁰	4 ³	5 ³	d	3 ⁵	4 ²					
E	3 ⁰	3 ⁵	4 ⁰	4 ⁷	e	3 ⁵	4 ²					
F	3 ⁰	3 ⁵	4 ⁰	4 ⁷	f	2 ⁸	2 ⁶					
G	3 ²	4 ⁰	4 ³	5 ³	g	3 ⁵	4 ²					
H	3 ²	4 ⁰	4 ³	5 ³	h	3 ⁵	4 ²					
I	0 ⁷	0 ⁷	1 ¹	1 ²	i	1 ¹						

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
343	*	COOK	283	128
STA. TO STA.		ILLINOIS FED. AID PROJECT		
		* 700-Y-R & 704B-R-1 62897		

KEY PLAN

ROADWAY LIGHTING SCHEDULE OF QUANTITIES				
ITEM	UNIT	QTY	100% IDOT	TOTAL QUANTITIES
MOBILIZATION	L SUM	1		1
ELECTRIC SERVICE INSTALLATION	EACH	1		1
LUMINAIRE, SODIUM VAPOR, HORIZONTAL MOUNT, 400 WATT	EACH	4		4
LUMINAIRE, SODIUM VAPOR, HORIZONTAL MOUNT, 400 WATT, INSTALL ONLY	EACH	14		14
UNDERPASS LUMINAIRE, 70 WATT, HIGH PRESSURE SODIUM VAPOR	EACH	8		8
UNDERPASS LUMINAIRE, 100 WATT, HIGH PRESSURE SODIUM VAPOR	EACH	4		4
LIGHTING CONTROLLER, CONSOLE, TYPE CB-RS	EACH	1		1
REMOVAL OF EXISTING LIGHTING UNIT, SALVAGE	EACH			
LIGHTING FOUNDATION REMOVAL	EACH			
RELOCATE EXISTING LIGHTING UNIT	EACH	26		26
REMOVAL OF LIGHTING CONTROLLER	EACH	1		1
REMOVAL OF LIGHTING CONTROLLER FOUNDATION	EACH	1		1
REMOVE EXISTING HANDHOLE	EACH	1		1
LOCATING UNDERGROUND CABLE	METER			
GROUND ROD, 16MM DIA. X 3.0M	EACH	27		27
LIGHT POLE, WOOD, 9.14 METER, CLASS 4	EACH	2		2
LIGHT POLE, WOOD, 12.19 METER, CLASS 4	EACH	4		4
LIGHT POLE, WOOD, 18.30 METER, CLASS 4	EACH	7		7
LIGHT POLE, WOOD, 18.30 METER, CLASS 4, 4.5 METER MAST ARM	EACH	12		12
CONDUIT IN TRENCH, RIGID GALVANIZED STEEL, 75MM DIA.	METER	10		10
CONDUIT PUSHED, RIGID GALVANIZED STEEL, 75MM DIA.	METER	512		512
CONDUIT EMBEDDED IN STRUCTURE, PVC, 50 MM DIA.	METER	89		89
CONDUIT EMBEDDED IN STRUCTURE, PVC, 65 MM DIA.	METER	98		98
JUNCTION BOX, ATTACHED TO STRUCTURE, STAINLESS STEEL, 150MM X 150MM X 100MM	EACH	12		12
JUNCTION BOX, ATTACHED TO STRUCTURE, STAINLESS STEEL, 300MM X 250MM X 150MM	EACH	8		8
JUNCTION BOX, ATTACHED TO STRUCTURE, STAINLESS STEEL, 450MM X 450MM X 200MM	EACH	2		2
JUNCTION BOX, EMBEDDED IN STRUCTURE, NON-METALLIC, 300MM X 300MM X 150MM	EACH	8		8
ELECTRIC CABLE IN CONDUIT, 600V (EPR-TYPE RHW) 1/C NO. 10	METER	660		660
ELECTRIC CABLE IN CONDUIT, 600V (EPR-TYPE RHW) 1/C NO. 4	METER	405		405
ELECTRIC CABLE IN CONDUIT, 600V (EPR-TYPE RHW) 1/C NO. 6	METER	153		153
ELECTRIC CABLE IN CONDUIT, 600V (EPR-TYPE USE) 1/C NO. 3/0	METER	19		19
TRENCH AND BACKFILL FOR ELECTRICAL WORK	METER	1375		1375
UNIT DUCT, 600V, WITH 3-1/C NO. 4 AND 1/C NO. 6 GROUND (EPR-TYPE RHW), 30MM DIA., POLYETHYLENE, SCH 40	METER	2442		2442
AERIAL CABLE WITH MESSENGER WIRE, 3-1/C NO. 2 ALUMINUM	METER	1505		1505
LIGHT POLE, ALUMINUM, 16.2M M.H., 3.6M MAST ARM	EACH			
LIGHT POLE FOUNDATION, 750MM DIAMETER	METER	26		26
CONDUIT ATTACHED TO STRUCTURE, 25MM DIA. RIGID GALVANIZED STEEL, PVC COATED	METER	92		92
CONDUIT ATTACHED TO STRUCTURE, 65MM DIA. RIGID GALVANIZED STEEL, PVC COATED	METER	28		28
CONDUIT ATTACHED TO STRUCTURE, 75MM DIA. RIGID GALVANIZED STEEL, PVC COATED	METER	22		22
REMOVE EXISTING CONDUIT ATTACHED TO STRUCTURE	METER	110		110
TEMPORARY UNDERPASS LIGHTING INSTALLATION AND REMOVAL	L SUM	1		1
REMOVE LUMINAIRE FROM UNDERPASS	EACH	4		4
REMOVE EXISTING SERVICE INSTALLATION	EACH	1		1
MAINTENANCE OF LIGHTING SYSTEM	CAL MO	9		9
LUMINAIRE SAFETY CABLE ASSEMBLY	EACH	44		44
REMOVE TEMPORARY LIGHTING UNITS	LSUM	1		1
MAINTENANCE OF TEMPORARY LIGHTING SYSTEM	LSUM			

Rick Johns
 DDT - District 01
 IL 68
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 Schedule of Quantities.dgn

REVISIONS	
NAME	DATE
ADDENDUM 2	02/15/07

ILLINOIS DEPARTMENT OF TRANSPORTATION
 ILLINOIS ROUTE 68 AT U.S. ROUTE 14
 ROADWAY LIGHTING
 SCHEDULE OF QUANTITIES

SCALE NONE
 DATE NOVEMBER 2006

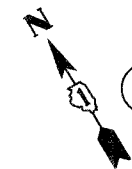
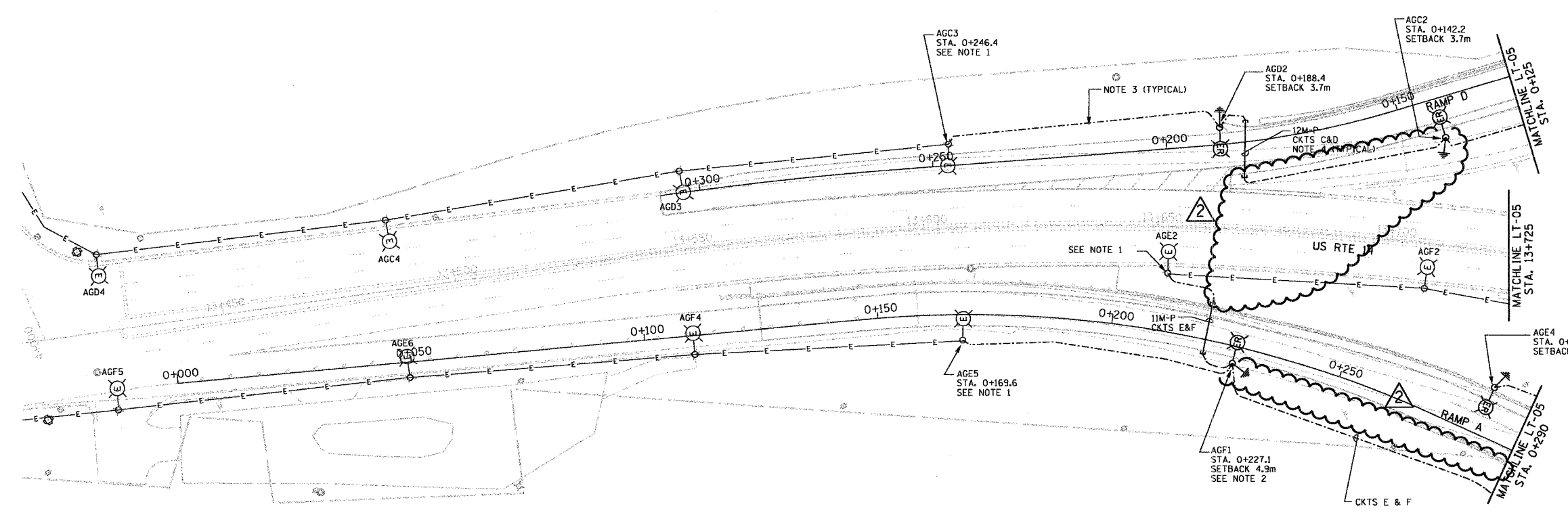
DRAWN BY R.P.J.
 DESIGNED BY I.B.
 CHECKED BY A.D.O.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
343	*	COOK	283	129
STA. TO STA.		FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT		
		* 70D-Y-R & 70HB-R-1 62897		

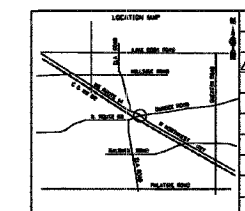
KEY PLAN

NOTES:

1. CONNECT EXISTING CIRCUITS TO NEW CONDUCTORS AT BASE OF POLE THROUGH EXISTING RACEWAY.
2. FOUNDATION REQUIRES THREE (3) CONDUITS FOR UNIT DUCTS.
3. ALL PROPOSED UNIT DUCTS ARE 30MM DIA. POLYETHYLENE WITH (3) 1/C #4 & (1) 1/C #6 GND (EPR-TYPE RHW).
4. ALL PROPOSED PUSHED CONDUITS ARE 75MM DIA. RGS.



1 PROPOSED ROADWAY LIGHTING PLAN
 SCALE: 1 : 500
 5 0 5 10 15 20 25
 SCALE IN METERS



REVISIONS	
NAME	DATE
ADDENDUM 2	02/15/07

ILLINOIS DEPARTMENT OF TRANSPORTATION
 ILLINOIS ROUTE 68 AT U.S. ROUTE 14
 ROADWAY LIGHTING PROPOSED PLAN
 US 14 STA. 13+400 TO STA. 13+725

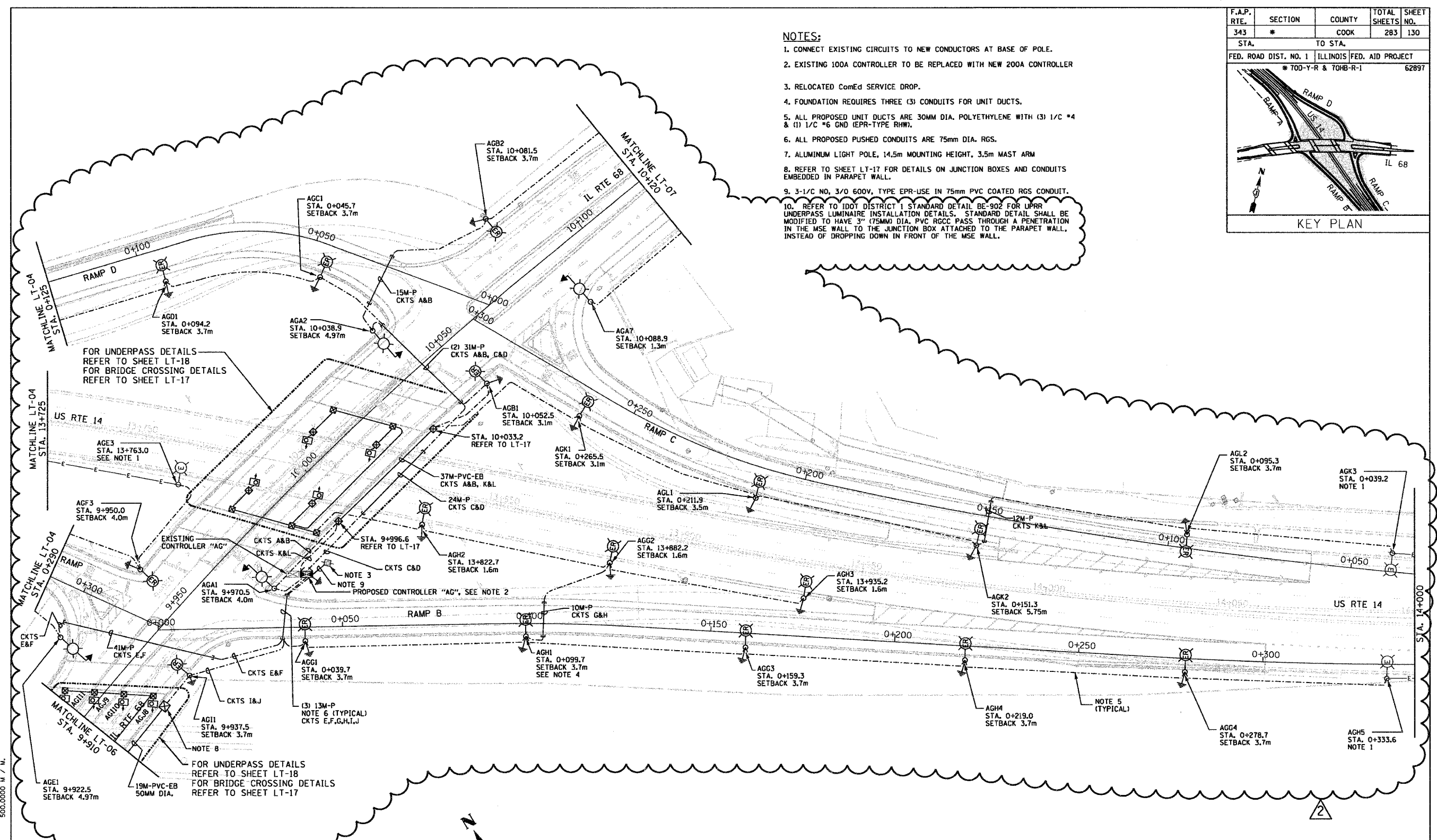
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 DATE NOVEMBER 2006
 DRAWN BY R.P.J.
 DESIGNED BY I.B.
 CHECKED BY A.D.O.

Rick Johns
 001 - District 01
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 Proposed Plan.dgn

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
343	*	COOK	283	130
STA.		TO STA.		
FED. ROAD DIST. NO. 1		ILLINOIS FED. AID PROJECT		
* 700-Y-R & 704B-R-1		62897		

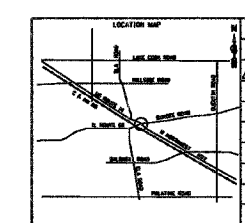
KEY PLAN

- NOTES:**
- CONNECT EXISTING CIRCUITS TO NEW CONDUCTORS AT BASE OF POLE.
 - EXISTING 100A CONTROLLER TO BE REPLACED WITH NEW 200A CONTROLLER
 - RELOCATED ComEd SERVICE DROP.
 - FOUNDATION REQUIRES THREE (3) CONDUITS FOR UNIT DUCTS.
 - ALL PROPOSED UNIT DUCTS ARE 30MM DIA. POLYETHYLENE WITH (3) 1/C #4 & (1) 1/C #6 GND (EPR-TYPE RHW).
 - ALL PROPOSED PUSHED CONDUITS ARE 75mm DIA. RGS.
 - ALUMINUM LIGHT POLE, 14.5m MOUNTING HEIGHT, 3.5m MAST ARM
 - REFER TO SHEET LT-17 FOR DETAILS ON JUNCTION BOXES AND CONDUITS EMBEDDED IN PARAPET WALL.
 - 3-1/C NO. 3/0 600V. TYPE EPR-USE IN 75mm PVC COATED RGS CONDUIT.
 - REFER TO IDOT DISTRICT 1 STANDARD DETAIL BE-902 FOR UPRR UNDERPASS LUMINAIRE INSTALLATION DETAILS. STANDARD DETAIL SHALL BE MODIFIED TO HAVE 3" (75MM) DIA. PVC RGCC PASS THROUGH A PENETRATION IN THE MSE WALL TO THE JUNCTION BOX ATTACHED TO THE PARAPET WALL, INSTEAD OF DROPPING DOWN IN FRONT OF THE MSE WALL.



1 PROPOSED ROADWAY LIGHTING PLAN
 SCALE: 1 : 500

SCALE IN METERS



REVISIONS	
NAME	DATE
ADDENDUM 2	02/15/07

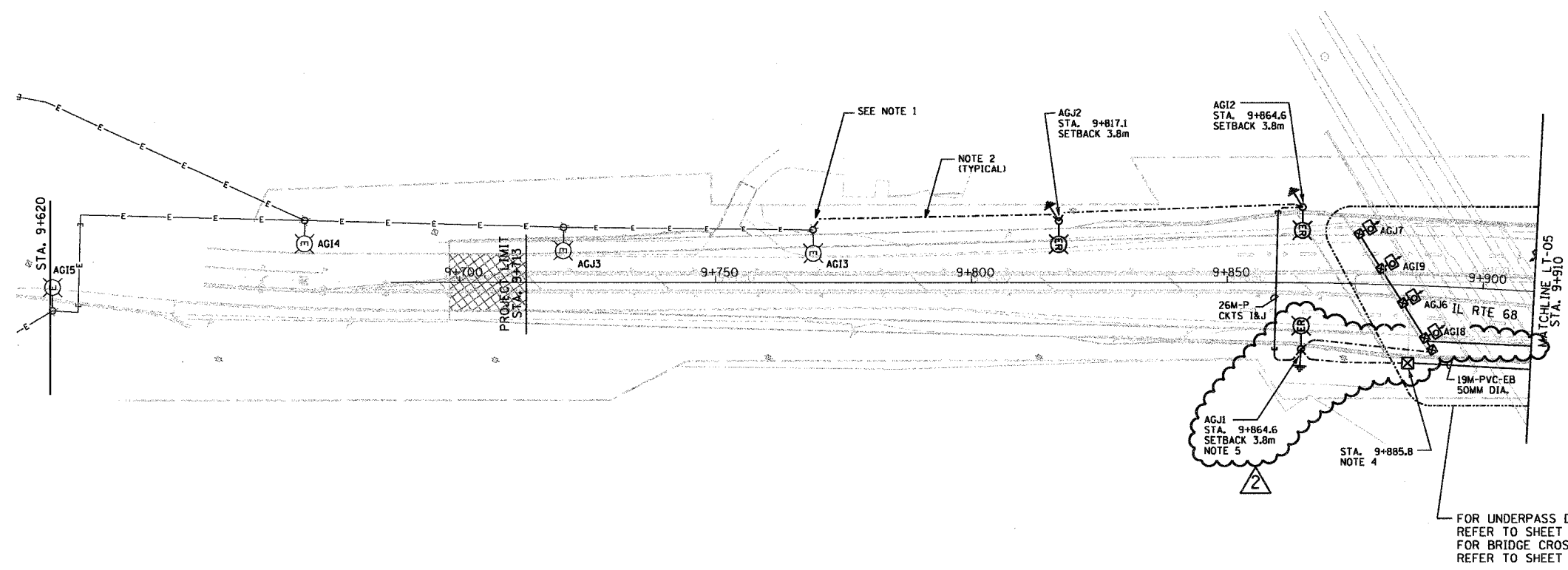
ILLINOIS DEPARTMENT OF TRANSPORTATION
 ILLINOIS ROUTE 68 AT U.S. ROUTE 14
 ROADWAY LIGHTING PROPOSED PLAN
 IL 68 STA. 9+910 TO STA. 10+120
 US 14 STA. 13+725 TO STA. 14+100
 SCALE 1:500
 DATE NOVEMBER 2006
 DRAWN BY R.P.J.
 DESIGNED BY I.B.
 CHECKED BY A.D.O.

Rick Johns
 06/19/06 - IL 68 over US 14
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F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
343	*	COOK	283	131
STA.	TO STA.			
FED. ROAD DIST. NO. 1	ILLINOIS FED. AID PROJECT		62897	
* 70D-Y-R & 70HB-R-1				

KEY PLAN

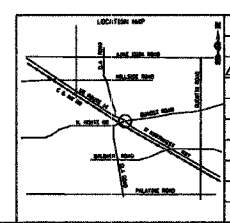
- NOTE
- CONNECT EXISTING CIRCUITS TO NEW CONDUCTORS AT BASE OF POLE.
 - ALL PROPOSED UNIT DUCTS ARE 30MM DIA. POLYETHYLENE WITH (3) 1/C #4 & (1) 1/C #6 GND (EPR-TYPE RHW).
 - ALL PROPOSED PUSHED CONDUITS ARE 75MM DIA. RGS.
 - REFER TO IDOT DISTRICT 1 STANDARD DETAIL BE-902 FOR UPRR UNDERPASS LUMINAIRE INSTALLATION DETAILS. STANDARD DETAIL SHALL BE MODIFIED TO HAVE 3" (75MM) DIA. PVC RGCC PASS THROUGH A PENETRATION IN THE MSE WALL TO THE JUNCTION BOX EMBEDDED IN THE PARAPET WALL, INSTEAD OF DROPPING DOWN IN FRONT OF THE MSE WALL.
 - FOUNDATION REQUIRES THREE (3) CONDUITS FOR UNIT DUCTS.



FOR UNDERPASS DETAILS REFER TO SHEET LT-18
FOR BRIDGE CROSSING DETAILS REFER TO SHEET LT-17



1 PROPOSED ROADWAY LIGHTING PLAN
SCALE: 1 : 500
5 0 5 10 15 20 25
SCALE IN METERS



REVISIONS	
NAME	DATE
ADDENDUM 2	02/15/07

ILLINOIS DEPARTMENT OF TRANSPORTATION
ILLINOIS ROUTE 68 AT U.S. ROUTE 14
ROADWAY LIGHTING PROPOSED PLAN
IL 68 STA. 9+620 TO STA. 9+910

SCALE 1:500
DATE NOVEMBER 2006

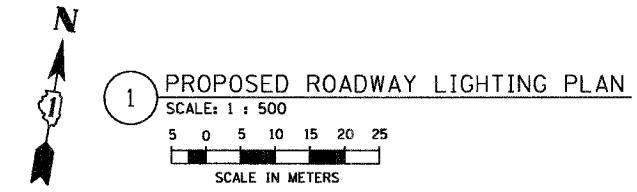
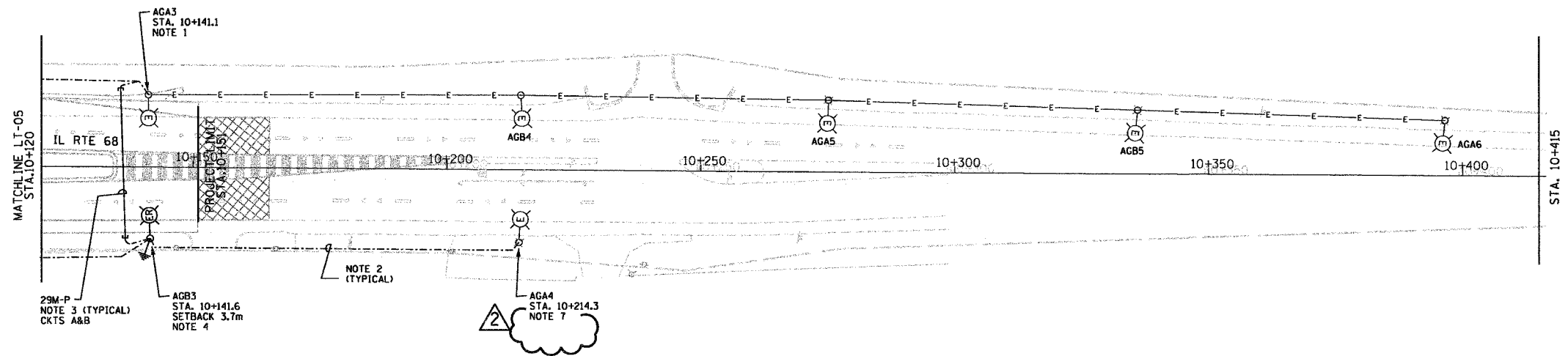
DRAWN BY R.P.J.
DESIGNED BY I.B.
CHECKED BY A.D.O.

Rick Johns
 IDOT - District 01
 IL 68 over US 14
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F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
343	*	COOK	283	132
STA. TO STA.		FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT		
		* 700-Y-R & 70HB-R-1 62897		

KEY PLAN

- NOTE
1. CONNECT EXISTING CIRCUITS TO NEW CONDUCTORS AT BASE OF POLE.
 2. ALL PROPOSED UNIT DUCTS ARE 30MM DIA. POLYETHYLENE WITH (3) 1/C #4 & (1) 1/C #6 GND (EPR-TYPE RHW).
 3. ALL PROPOSED PUSHED CONDUITS ARE 75mm DIA, RGS.
 4. FOUNDATION REQUIRES THREE (3) CONDUITS FOR UNIT DUCTS.



Rick Johns
 1001 - District 01
 IL 68 over US 14
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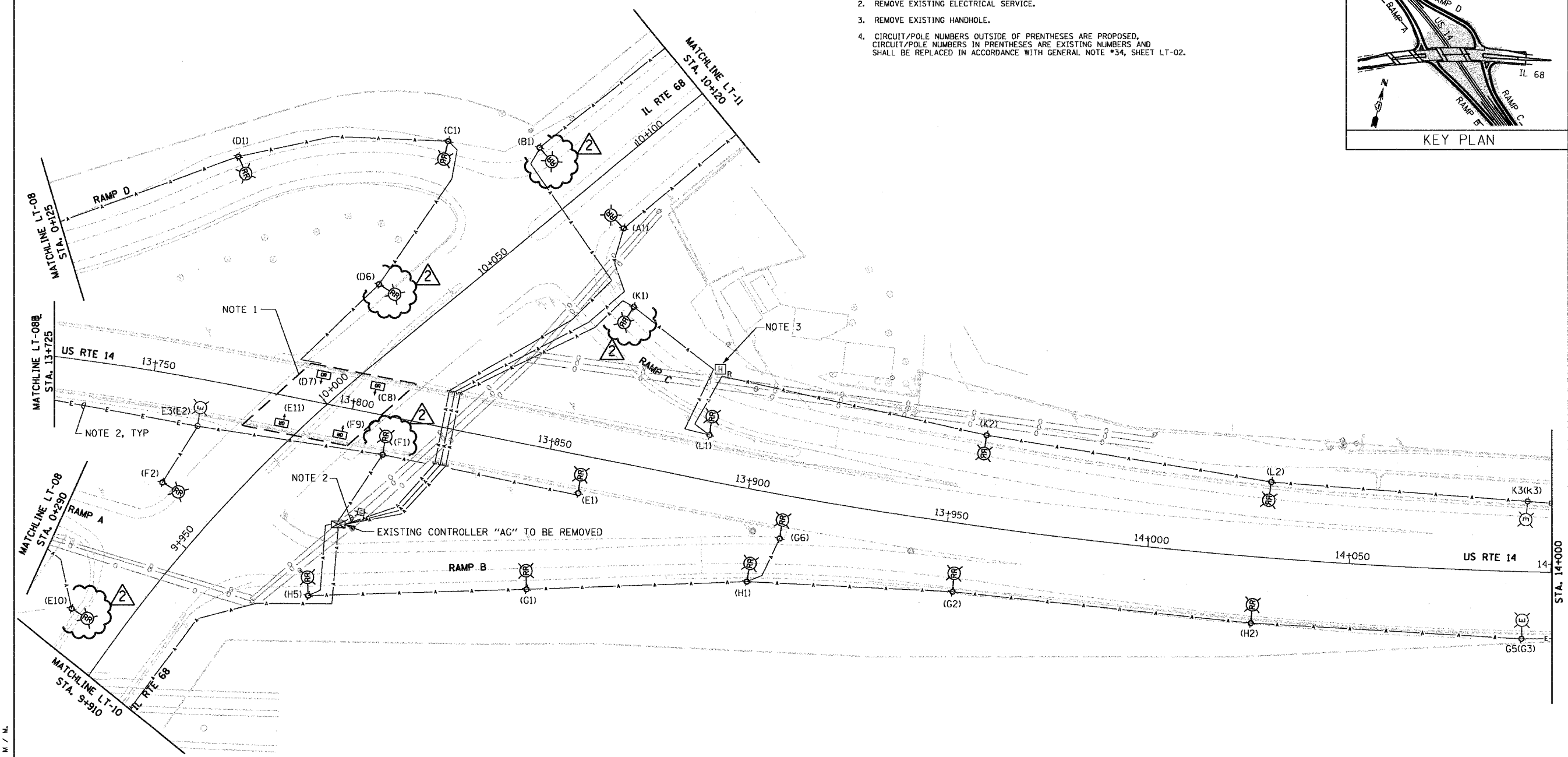
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	NAME	DATE
	ADDENDUM 2	02/15/07
ILLINOIS DEPARTMENT OF TRANSPORTATION		
ILLINOIS ROUTE 68 AT U.S. ROUTE 14		
ROADWAY LIGHTING PROPOSED PLAN		
IL 68 STA. 10+120 TO STA. 10+415		
SCALE 1:500	DRAWN BY R.P.J.	
DATE NOVEMBER 2006	DESIGNED BY I.B.	
	CHECKED BY A.D.O.	

LT-07 OF 19

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
343	#	COOK	283	134
STA. #		TO STA.		
FED. ROAD DIST. NO. 1		ILLINOIS FED. AID PROJECT		62897
		* 700-Y-R & 704B-R-1		

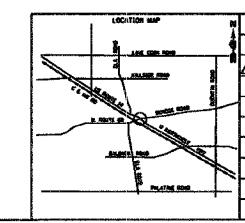
KEY PLAN

- NOTES:
1. REMOVE ALL EXISTING UNDERPASS LUMINAIRES & ASSOCIATED JUNCTION BOXES. EXISTING UNDERPASS LUMINAIRES ON NORTH SIDE OF US-14 BRIDGE SHALL BE MAINTAINED IN SERVICE THROUGH CONSTRUCTION STAGE 1.
 2. REMOVE EXISTING ELECTRICAL SERVICE.
 3. REMOVE EXISTING HANDHOLE.
 4. CIRCUIT/POLE NUMBERS OUTSIDE OF PRENTHESES ARE PROPOSED. CIRCUIT/POLE NUMBERS IN PRENTHESES ARE EXISTING NUMBERS AND SHALL BE REPLACED IN ACCORDANCE WITH GENERAL NOTE #34, SHEET LT-02.



1 ROADWAY LIGHTING DEMOLITION PLAN
 SCALE: 1 : 500
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 SCALE IN METERS

Rick Johns
 District 01
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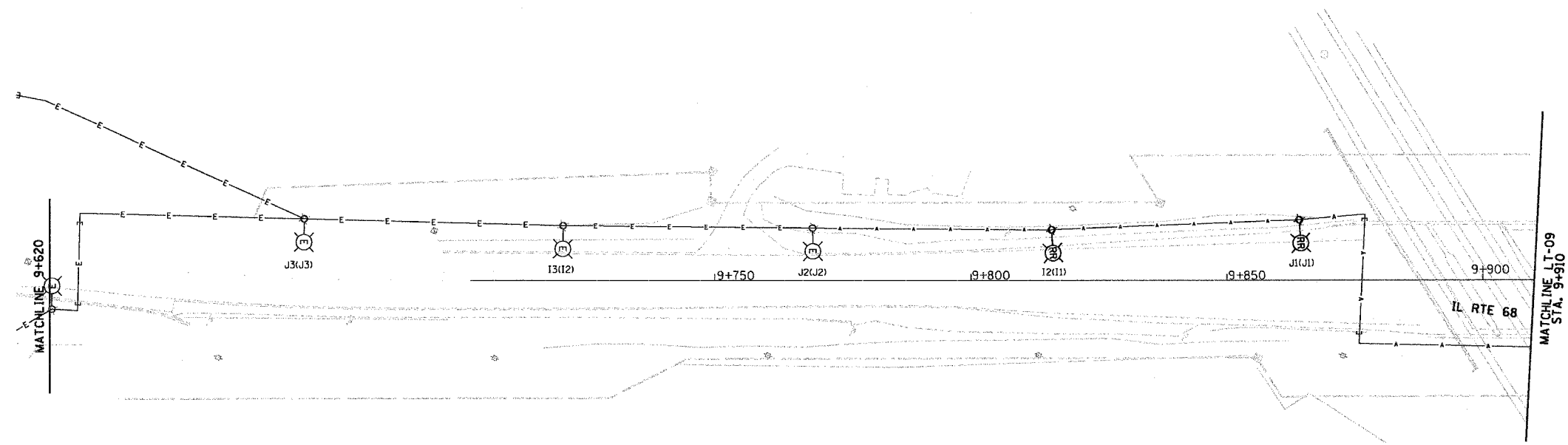
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NAME	DATE
ADDENDUM 2	02/15/07

ILLINOIS DEPARTMENT OF TRANSPORTATION
 ILLINOIS ROUTE 68 AT U.S. ROUTE 14
 ROADWAY LIGHTING DEMOLITION PLAN
 IL 68 STA. 9+910 TO STA. 10+120
 US 14 STA. 13+725 TO STA. 14+100
 SCALE 1:500
 DATE NOVEMBER 2006
 DRAWN BY R.P.J.
 DESIGNED BY I.B.
 CHECKED BY A.D.O.

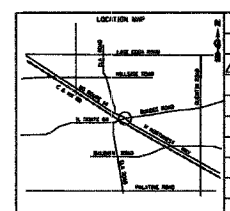
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
343	*	COOK	283	135
STA.		TO STA.		
FED. ROAD DIST. NO. 1		ILLINOIS FED. AID PROJECT		
* 70D-Y-R & 70HB-R-1		62897		

KEY PLAN

NOTES:
 1. CIRCUIT/POLE NUMBERS OUTSIDE OF PRENTHESES ARE PROPOSED,
 CIRCUIT/POLE NUMBERS IN PRENTHESES ARE EXISTING NUMBERS AND SHALL BE
 REPLACED IN ACCORDANCE WITH GENERAL NOTE *34, SHEET LT-02.



1 ROADWAY LIGHTING DEMOLITION PLAN
 SCALE: 1 : 500
 5 0 5 10 15 20 25
 SCALE IN METERS



REVISIONS	
NAME	DATE
ADDENDUM 2	02/15/07

ILLINOIS DEPARTMENT OF TRANSPORTATION
 ILLINOIS ROUTE 68 AT U.S. ROUTE 14
 ROADWAY LIGHTING DEMOLITION PLAN
 IL 68 STA. 9+620 TO STA. 9+910

SCALE 1:500
 DATE NOVEMBER 2006

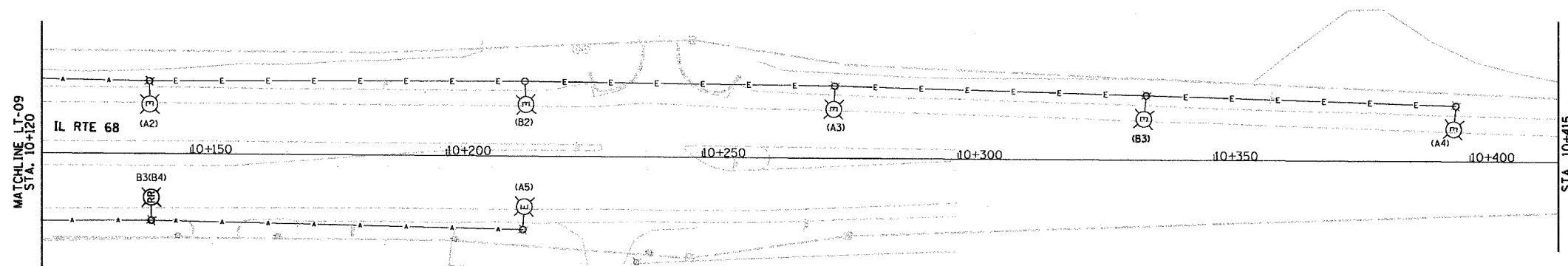
DRAWN BY R.P.J.
 DESIGNED BY I.B.
 CHECKED BY A.D.O.

Rick Johns
 0001 - District 01
 0001 - IL 68 over US 14
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F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
343	*	COOK	283	136
STA.	TO STA.			
FED. ROAD DIST. NO. 1	ILLINOIS FED. AID PROJECT			62897
* 700-Y-R & 704B-R-1				

KEY PLAN

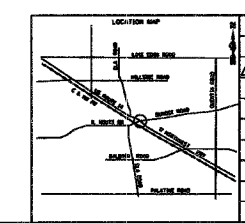
NOTES:
 1. CIRCUIT/POLE NUMBERS OUTSIDE OF PRENTHESES ARE PROPOSED.
 CIRCUIT/POLE NUMBERS IN PRENTHESES ARE EXISTING NUMBERS AND SHALL BE REPLACED IN ACCORDANCE WITH GENERAL NOTE #34, SHEET LT-02.



1
ROADWAY LIGHTING DEMOLITION PLAN
 SCALE: 1 : 500

 SCALE IN METERS

Rick Johns
 1001 - District 01
 IL 68 over US 14
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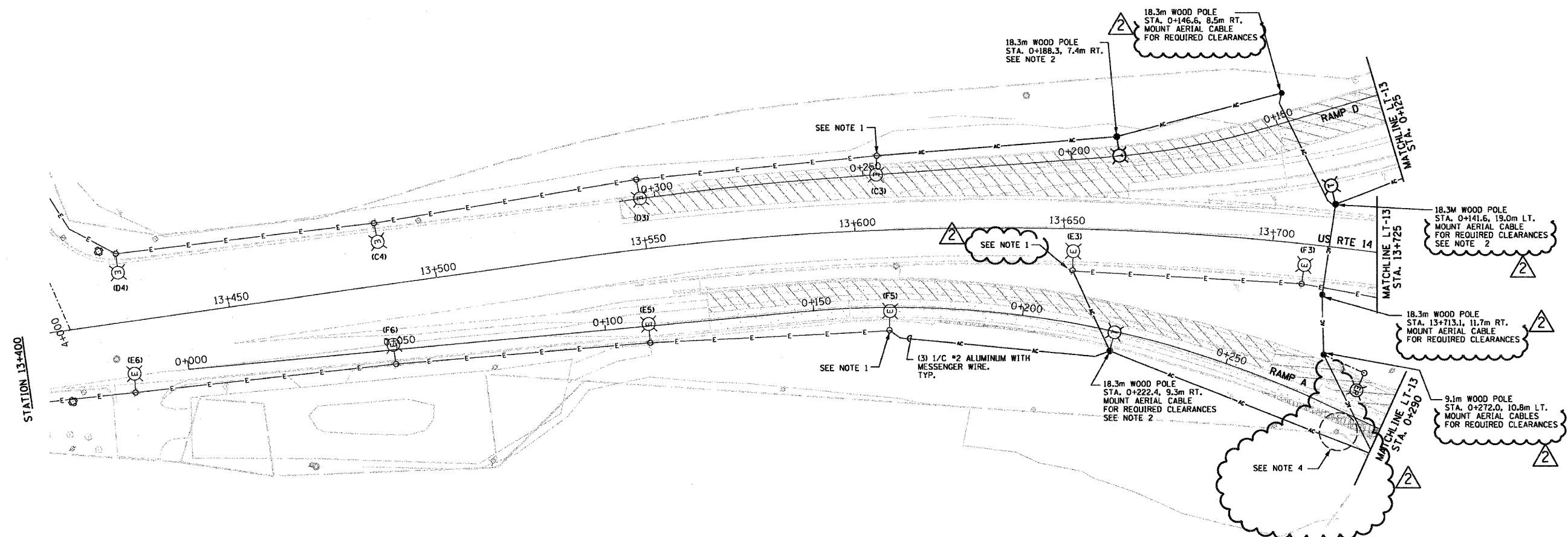
REVISIONS	
NAME	DATE
ADDENDUM 2	02/15/07

LT-11 OF 19
 ILLINOIS DEPARTMENT OF TRANSPORTATION
 ILLINOIS ROUTE 68 AT U.S. ROUTE 14
 ROADWAY LIGHTING DEMOLITION PLAN
 IL 68 STA. 10+120 TO STA. 10+415
 SCALE 1:500
 DATE NOVEMBER 2006
 DRAWN BY R.P.-J.
 DESIGNED BY I.B.
 CHECKED BY A.D.O.

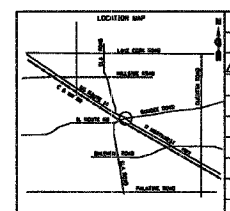
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343	*	COOK	283	137
STA.		TO STA.		
FED. ROAD DIST. NO. 1		ILLINOIS FED. AID PROJECT		
* 700-Y-R & 704B-R-1		62897		

KEY PLAN

- NOTES:
1. SECURE AERIAL CABLE ATTACHMENT TO POLE WITH A POLE BAND. INSERT CONDUCTORS THROUGH THE 38mm GROMMETED HOLE IN THE TOP PORTION OF THE SHAFT.
 2. WITH 4.5 MAST ARM, MOUNT TEMPORARY LUMINAIRE AT 14.5M ABOVE ROADWAY.
 3. ALL TEMPORARY AERIAL CABLE SHALL BE (3) 1/C #2 ALUMINUM WITH MESSENGER WIRE.
 4. ComEd WILL REMOVE THE NEUTRAL FOR THE CONSTRUCTION PERIOD TO ALLOW FOR TEMPORARY AERIAL CABLES TO CROSS UNDER THE DISTRIBUTION LINES.
 5. CIRCUIT/POLE NUMBERS OUTSIDE OF PRENTHESES ARE PROPOSED, CIRCUIT/POLE NUMBERS IN PRENTHESES ARE EXISTING NUMBERS AND SHALL BE REPLACED IN ACCORDANCE WITH GENERAL NOTE #34, SHEET LT-02.
 6. PROVIDE TEMPORARY IMPACT ATTENUATOR AT TEMPORARY WOOD POLE. COST OF THE TEMPORARY IMPACT ATTENUATOR SHALL BE INCIDENTAL TO THE PAY ITEM FOR THE WOOD POLE.
 7. MAINTAIN A MINIMUM FROM GROUND PER NEC SECTION 225.18 FOR ALL AERIAL CABLES AND MAINTAIN CLEARANCES REQUIRED BY ComEd STANDARDS.



1 ROADWAY TEMPORARY LIGHTING PLAN
 SCALE: 1 : 500
 5 0 5 10 15 20 25
 SCALE IN METERS



REVISIONS	
NAME	DATE
ADDENDUM 2	02/15/07

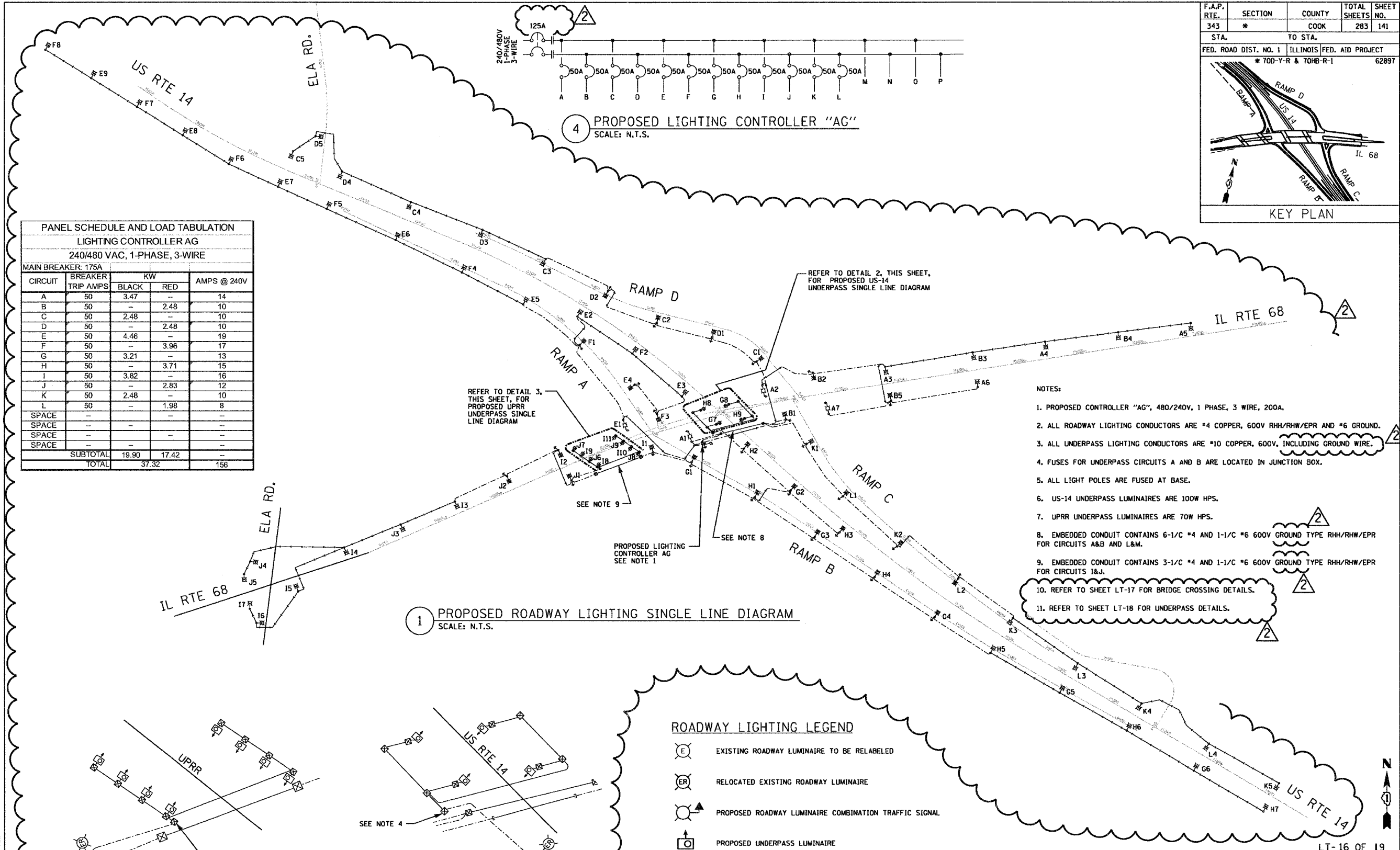
ILLINOIS DEPARTMENT OF TRANSPORTATION
 ILLINOIS ROUTE 68 AT U.S. ROUTE 14
 ROADWAY TEMPORARY LIGHTING PLAN
 US 14 STA. 13+400 TO STA. 13+725
 SCALE 1:500
 DATE NOVEMBER 2006
 DRAWN BY R.P.J.
 DESIGNED BY I.B.
 CHECKED BY A.D.O.

Rick Johns
 DOT - District 01
 66 Ave. US 14
 Peoria, IL 61604
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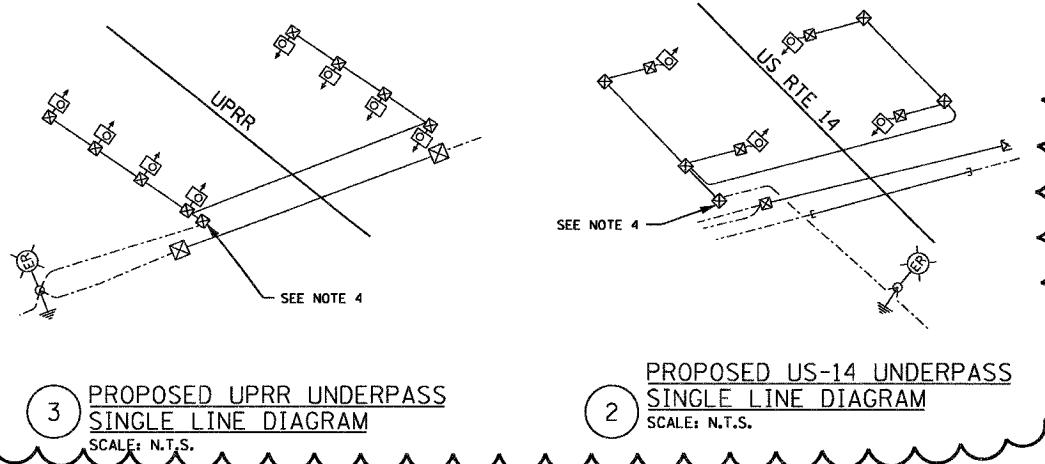
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
343	*	COOK	283	141
STA.	TO STA.			
FED. ROAD DIST. NO. 1	ILLINOIS FED. AID PROJECT		62897	
* 700-Y-R & 704B-R-1				

KEY PLAN

PANEL SCHEDULE AND LOAD TABULATION				
LIGHTING CONTROLLER AG				
240/480 VAC, 1-PHASE, 3-WIRE				
MAIN BREAKER: 175A				
CIRCUIT	BREAKER TRIP AMPS	BLACK KW	RED KW	AMPS @ 240V
A	50	3.47	-	14
B	50	-	2.48	10
C	50	2.48	-	10
D	50	-	2.48	10
E	50	4.46	-	19
F	50	-	3.96	17
G	50	3.21	-	13
H	50	-	3.71	15
I	50	3.82	-	16
J	50	-	2.83	12
K	50	2.48	-	10
L	50	-	1.98	8
SPACE	-	-	-	-
SPACE	-	-	-	-
SPACE	-	-	-	-
SPACE	-	-	-	-
SUBTOTAL	-	19.90	17.42	-
TOTAL	-	37.32	-	156



- NOTES:
1. PROPOSED CONTROLLER "AG", 480/240V, 1 PHASE, 3 WIRE, 200A.
 2. ALL ROADWAY LIGHTING CONDUCTORS ARE #4 COPPER, 600V RHH/RHW/EPR AND #6 GROUND.
 3. ALL UNDERPASS LIGHTING CONDUCTORS ARE #10 COPPER, 600V, INCLUDING GROUND WIRE.
 4. FUSES FOR UNDERPASS CIRCUITS A AND B ARE LOCATED IN JUNCTION BOX.
 5. ALL LIGHT POLES ARE FUSED AT BASE.
 6. US-14 UNDERPASS LUMINAIRES ARE 100W HPS.
 7. UPRR UNDERPASS LUMINAIRES ARE 70W HPS.
 8. EMBEDDED CONDUIT CONTAINS 6-1/C #4 AND 1-1/C #6 600V GROUND TYPE RHH/RHW/EPR FOR CIRCUITS A&B AND L&M.
 9. EMBEDDED CONDUIT CONTAINS 3-1/C #4 AND 1-1/C #6 600V GROUND TYPE RHH/RHW/EPR FOR CIRCUITS I&J.
 10. REFER TO SHEET LT-17 FOR BRIDGE CROSSING DETAILS.
 11. REFER TO SHEET LT-18 FOR UNDERPASS DETAILS.



- ROADWAY LIGHTING LEGEND
- EXISTING ROADWAY LUMINAIRE TO BE RELABELLED
 - RELOCATED EXISTING ROADWAY LUMINAIRE
 - PROPOSED ROADWAY LUMINAIRE COMBINATION TRAFFIC SIGNAL
 - PROPOSED UNDERPASS LUMINAIRE
 - PROPOSED JUNCTION BOX
 - PROPOSED LIGHTING CONTROLLER

REVISIONS	
NAME	DATE
ADDENDUM 2	02/15/07

ILLINOIS DEPARTMENT OF TRANSPORTATION
 ILLINOIS ROUTE 68 AT U.S. ROUTE 14
 ROADWAY LIGHTING
 SINGLE LINE DIAGRAM

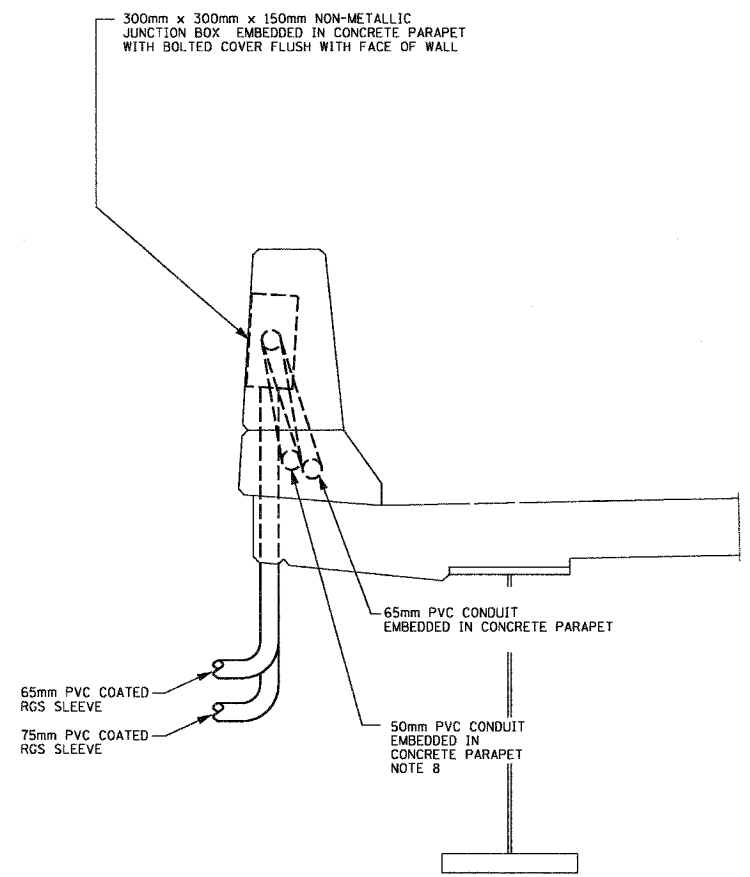
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DRAWN BY R.P.J.
 DESIGNED BY I.B.
 CHECKED BY A.D.O.

Rick Johns - District 01
 001 - District 01
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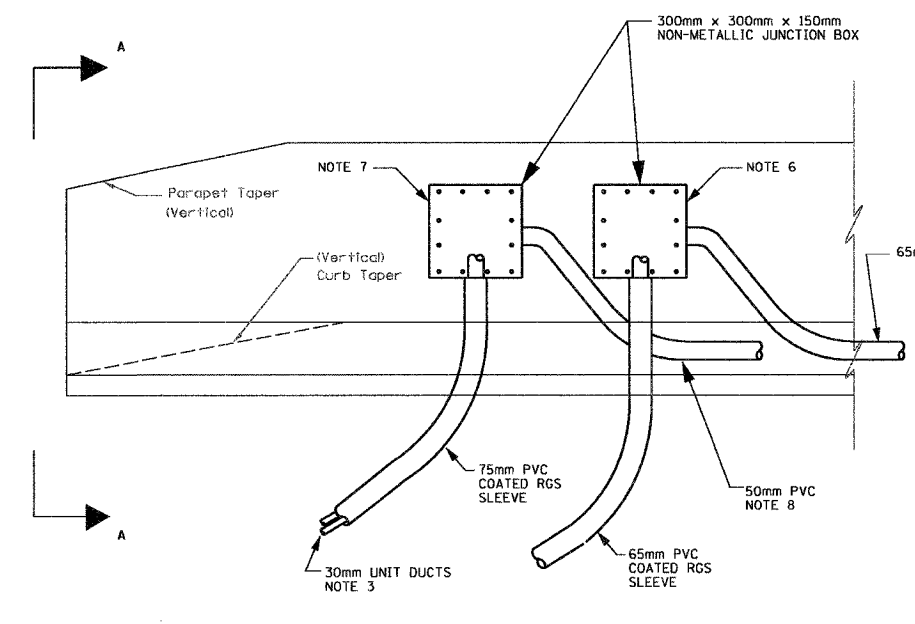
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
343	*	COOK	283	142
STA.		TO STA.		
FED. ROAD DIST. NO. 1		ILLINOIS FED. AID PROJECT		
* 700-Y-R & 704B-R-1		62897		

KEY PLAN



1 SECTION A-A THRU PARAPET
SCALE: N.T.S.

- NOTES
- 50mm EMBEDDED PVC CONDUITS SHALL BE PLACED IN THE LOWER CURBED PORTION OF THE PARAPET.
 - COORDINATE WITH OTHER TRADES TO MAINTAIN 5mm CLEARANCE FROM ALL REINFORCEMENTS.
 - FOR US RTE 14 BRIDGE; 2-UNIT DUCTS EACH WITH 3-1/C NO. 4 AND 1-1/C NO. 6 GRD. 600V TYPE RHH/RHW/EPR LIGHTING CONDUCTORS. FOR UPRR BRIDGE; 1-UNIT DUCTS WITH 3-1/C NO. 4 AND 1-1/C NO. 6 GRD. 600V TYPE RHH/RHW/EPR LIGHTING CONDUCTORS.
 - UNIT DUCT WITH TRAFFIC SIGNAL FIBER OPTIC CABLES. REFER TO SHEETS TS-12 AND TS-13.
 - PROVIDE EXPANTION / DEFLECTION CONDUIT COUPLINGS AT EACH PARAPET EXPANTION JOINT.
 - JUNCTION BOX FOR TRAFFIC SIGNALS EMBEDDED IN PARAPET WALL.
 - JUNCTION BOX FOR ELECTRIC EMBEDDED IN PARAPET WALL.
 - 50 mm WITH 6-1/C*4 AND 2-1/C*6 GROUNDS.
 - REFER TO STRUCTURAL PLANS FOR LOCATION OF JUNCTION BOXES.



2 BRIDGE END ELEVATION
SCALE: N.T.S.

Rick Johns
 DOT - District 01
 IL 68 over US 14
 9/15/09
 2/14/2007

	REVISIONS		ILLINOIS DEPARTMENT OF TRANSPORTATION ILLINOIS ROUTE 68 AT U.S. ROUTE 14 ROADWAY LIGHTING BRIDGE CROSSING DETAILS
	NAME	DATE	
	ADDENDUM 2	02/15/07	SCALE NONE
			DATE NOVEMBER 2006
			DRAWN BY R.P.J. DESIGNED BY I.B. CHECKED BY A.D.O.

F.A.P. RTE. NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
343	70D-Y-B-R	COOK	283	155
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT			
CONTRACT NO. 62897				

BENCH MARK

Chiseled "X" NW Corner of West Abutment of IL-68 bridge over UPRR Elev. 269.746

EXISTING STRUCTURE

S.N. 016-0523 was built in 1931. The structure was widened, raised, and the superstructure replaced in 1967. In 1994, bituminous overlay was added. The three span structure rests on spread footings at the closed abutments and spread footings at the multi-column piers. The superstructure consists of 690mm deep concrete deck beams with 75mm of overlay. The concrete parapets have steel railings with a fence on the northside. The back to back abutment length is 42.52m and the deck is 23.16m out to out.

During construction of the new structure, staged construction will be utilized to maintain one lane of traffic in each direction.

No salvage.

NOTES:

- All dimensions in millimeters (mm) except as noted.
- No free fall deck drains will be permitted in the span over the tracks or within 3m of cross arms of a railroad pole line.
- The width between the guardrails shall be the width between the bridge rails or parapets which will require approach shoulder widening.

STATION 9+900.324
BUILT 20__ BY
STATE OF ILLINOIS
F.A.P. RT. 343 SEC 70D-Y-B-R
COOK COUNTY
LOADING HS20
STR. NO. 016-2732

NAME PLATE
See Std. 515001

LOADING HS20-44

Allow 2.4 kN/m² future wearing surface

DESIGN SPECIFICATION

2002 AASHTO Std. Spec. 17th edition

DESIGN STRESSES

NEW CONSTRUCTION

FIELD UNITS

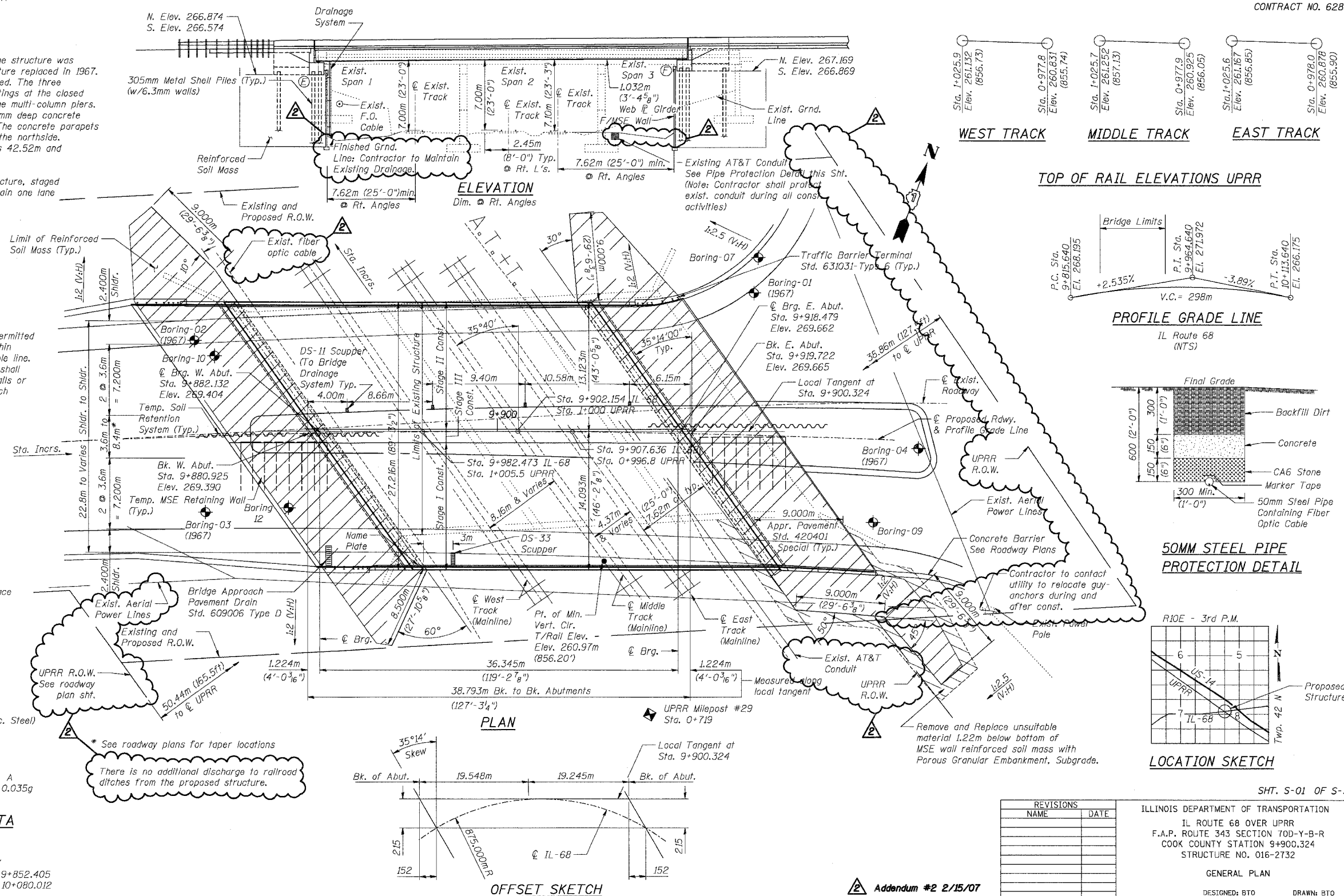
f'c = 24 MPa (concrete)
Fy = 345 MPa (M270M, Gr. 345 Struc. Steel)
fy = 400 MPa (reinforcement)

SEISMIC DATA

Seismic Performance Category (SPC) = A
Bedrock Acceleration Coefficient (A) = 0.035g
Site Coefficient (S) = 1.0

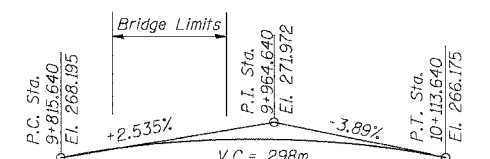
HORIZONTAL CURVE DATA

Curve 68-1
PI Sta. = 9+966.854 E = 7.453m
L = 14°54'14" RT. S.E. = 2.4%
R = 875.000m P.C. Sta. = 9+852.405
T = 114.450m P.T. Sta. = 10+080.012
L = 227.607m

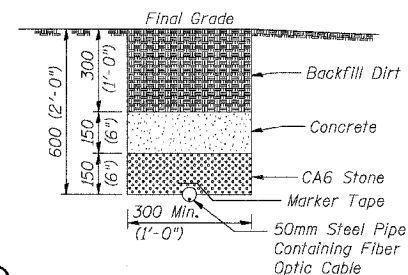


WEST TRACK MIDDLE TRACK EAST TRACK

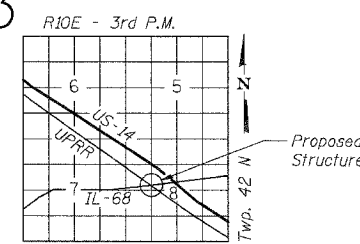
TOP OF RAIL ELEVATIONS UPRR



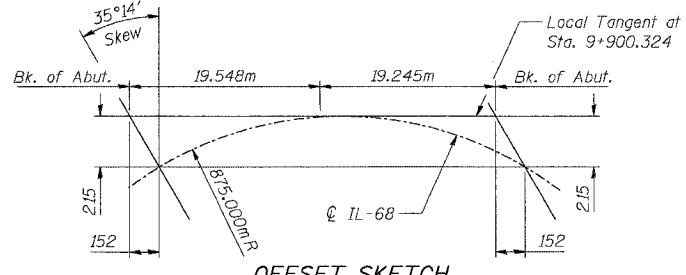
PROFILE GRADE LINE



50MM STEEL PIPE PROTECTION DETAIL



LOCATION SKETCH



OFFSET SKETCH

Addendum #2 2/15/07

REVISIONS	
NAME	DATE

SHT. S-01 OF S-34
ILLINOIS DEPARTMENT OF TRANSPORTATION
IL ROUTE 68 OVER UPRR
F.A.P. ROUTE 343 SECTION 70D-Y-B-R
COOK COUNTY STATION 9+900.324
STRUCTURE NO. 016-2732
GENERAL PLAN
DESIGNED: BTO DRAWN: BTO
DATE: 02/07 CHECKED: JAN CHECKED: JAN

F.A.P. RTE. 343	SECTION 70D-Y-B-R	COUNTY COOK	TOTAL SHEETS 283	SHEET NO. 156
STA. TO STA.		FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT		
CONTRACT NO. 62897				

GENERAL NOTES

- Fasteners shall be high strength bolts. Bolts M22, open holes 24 mm ϕ , unless otherwise noted.
- Calculated weight of Structural Steel:
 AASHTO (M270M GR 345) = 149,100 kg (Erection Only-Included in Beam Fabrication Contract)
 AASHTO (M270M GR 250) = 15,950 kg (Erection Only-Included in Beam Fabrication Contract)
- Field welding of construction accessories will not be permitted to girders.
- Anchor bolts shall be set before bolting diaphragms over supports.
- The main load carrying member components subject to tensile stress shall conform to the Supplemental Requirements for Notch Toughness Zone 2. These components are the tension flanges and webs of the plate girders.
- Reinforcement bars shall conform to the requirements of AASHTO M31M, M322M Grade 400.
- Metal Shell Piles at east abutment shall be driven in holes precored through the embankment according to Article 512.09(c) of the Standard Specifications.
- The contractor shall drive 2-305 mm metal shell test piles in a permanent location, one for each abutment as directed by the Engineer before ordering the remainder of the piles.
- All dimensions are in millimeters (mm) except as noted.
- Concrete Sealer shall be applied to the seat area of the Abutments.
- All construction joints shall be bonded.
- The organic zinc rich primer/epoxy/urethane paint system shall be used for painting of new structural steel except where otherwise noted. The entire system shall be shop applied, with the exception that masked off connection surfaces, field installed fasteners and damaged areas shall be touched up in the field. The color of the final finish coat for all interior steel surfaces shall be gray, Munsell No. 5HB 7/1. The color of the final finish coat for the exterior and bottom flange of the fascia beams shall be Reddish Brown, Munsell No. 2.5YR 3/4. See Special Provision for "Cleaning and Painting New Metal Structures."
- Slipforming of parapets containing conduit is not allowed.

UPRR NOTES

- Railroad review and approval of shoring, demolition, erection, and falsework is required.
- All shoring systems that impacts the Railroad's operations and/or supports the Railroad's embankment shall be designed and constructed per current Union Pacific Railroad Guidelines for Temporary Shoring.
- All demolitions within the Railroad's right-of-way and/or demolition that may impact the Railroad's tracks or operations shall be in compliance with the Railroad's Demolition Guidelines.
- Erection over the Railroad's right-of-way shall be designed to cause no interruption to Railroad's operations. Erection over the Railroad's track shall be developed such that it enables the tracks to remain open to train traffic per Railroad's requirements.
- Minimum Construction Clearance Envelope of 21 feet vertical above the plane of top-of-rail and 12 feet horizontal at right angle from centerline of track shall be maintained at all time during construction.
- Falsework clearance shall comply with the Railroad's Minimum Construction Clearance Envelope.
- For Railroad coordination please refer to the Railroad Minimum Requirements as part of special provisions.
- The contractor must submit a proposed method of erosion and sediment control and have the method approved by the railroad.
- The proposed grade separation project shall not change the quantity and/or characteristics of the flow in the Railroad ditches and/or drainage structures.
- The elevation of the existing top-of-rail profile shall be verified before beginning construction. All discrepancies shall be brought to the attention of the Railroad prior to construction.

TOTAL BILL OF MATERIAL

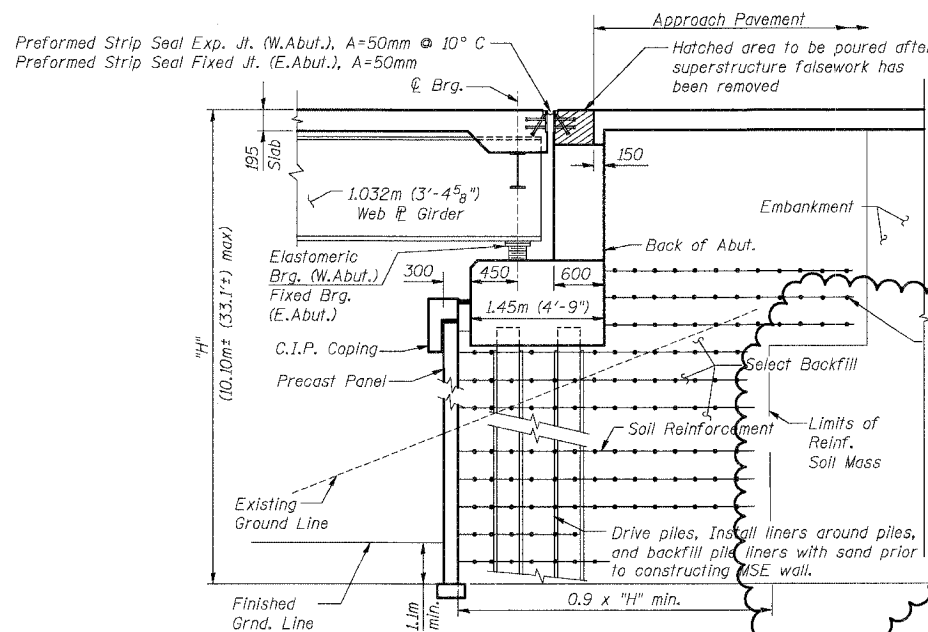
ITEM	UNIT	SUB-STRUCT.	SUPER-STRUCT.	TOTAL
Removal and Disposal of Unsuitable Material	CU M	511		511
Porous Granular Embankment, Subgrade	CU M	511		511
Removal of Existing Structures*	EACH			1
Structure Excavation	CU M	5279		5279
Concrete Structures	CU M	183.6		183.6
Concrete Superstructure	CU M		303.3	303.3
Bridge Deck Grooving	SQ M		747	747
Protective Coat	SQ M		1074	1074
Erecting Elastomeric Bearing Assembly, Type I	EACH		10	10
Erecting Structural Steel	L.S.		0.45	0.45
Stud Shear Connectors	EACH		2550	2550
Reinforcement Bars, Epoxy Coated	KG	10750	42390	53140
Furnishing Metal Shell Piles 305mm	METER	1396		1396
Driving Piles	METER	1396		1396
Anchor Bolts, M24	EACH	20		20
Anchor Bolts, M36	EACH	20		20
Test Pile Metal Shell	EACH	2		2
Temporary Soil Retention System	SQ M	218		218
Name Plates	EACH	1		1
Concrete Sealer	SQ M	57		57
Temporary Mechanically Stabilized Earth Retaining Wall	SQ M	255		255
Drainage Scuppers, DS-II	EACH		4	4
Drainage Scuppers, DS-33	EACH		1	1
Drainage System No. 2	EACH		1	1
Bar Splicers	EACH	256	519	775
Preformed Joint Strip Seal	METER		65.8	65.8
Mechanically Stabilized Earth Retaining Wall	SQ M	726		726
Erecting Precast Prestressed Concrete Deck Beam, (606 MM Depth)	SQ M		10.58	10.58
Hot Mix Asphalt Paving - Over Patches	M TON		7.1	7.1
Asbestos Bearing Pad Removal	EACH		100	100

* Removal of Crib Wall in Front of Existing West Abutment and Track Shield are included in "Removal of Existing Structures"

NOTE: 'Protective Shield' Quantity Removed

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- S-01 General Plan
- S-02 General Notes, B.O.M., & Index of Sheets
- S-03 Foundation Plan
- S-04 Temp. Soil Retention System & Temp. MSE Wall
- S-05 Existing Structure Removal
- S-06 Stage Construction Deck Sections
- S-07 Temporary Concrete Barrier
- S-08 Screed Plan & Top of Deck Elevations
- S-09 Top of Deck Elevations
- S-10 Deck Plan
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- S-12 Superstructure Details
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- S-16 Drainage Scupper, DS-II
- S-17 Drainage Scupper, DS-33
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- S-21 Anchor Bolt Details
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- S-27 West Abutment Wingwall Details
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- S-31 Boring Logs
- S-32 Track Shield Details
- S-33 NOT USED
- S-34 UPRR Cross Section & Drainage



MSE wall supplier to design the abutment Soil Reinforcement to resist a horizontal force of 6.47 kN/m. Cost of Select Backfill behind abutment and abutment Soil Reinforcement is included in the cost of MSE wall

Addendum #2 2/15/07

REVISIONS	
NAME	DATE

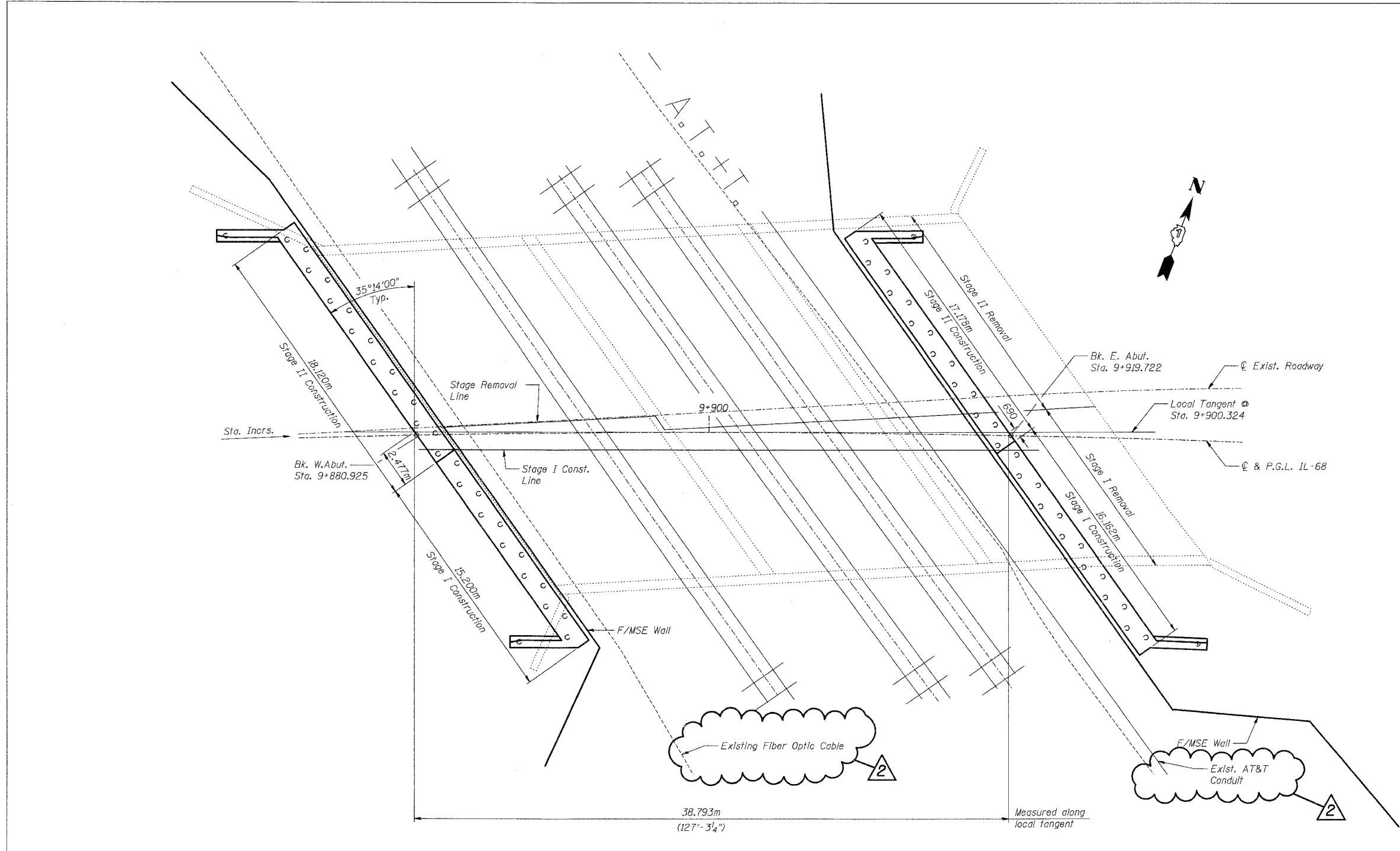
SHT. S-02 OF S-34

ILLINOIS DEPARTMENT OF TRANSPORTATION
 IL ROUTE 68 OVER UPRR
 F.A.P. ROUTE 343 SECTION 70D-Y-B-R
 COOK COUNTY STATION 9+900.324
 STRUCTURE NO. 016-2732

GENERAL NOTES, B.O.M., & INDEX OF SHEETS

DESIGNED: BTO DRAWN: BTO
 CHECKED: JAN CHECKED: JAN
 DATE: 02/07

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
343	700-Y-B-R	COOK	283	157
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT			
CONTRACT NO. 62897				



NOTE:
For Abutment pile layout, see shts. S-23 & S-26 of S-34.

PLAN

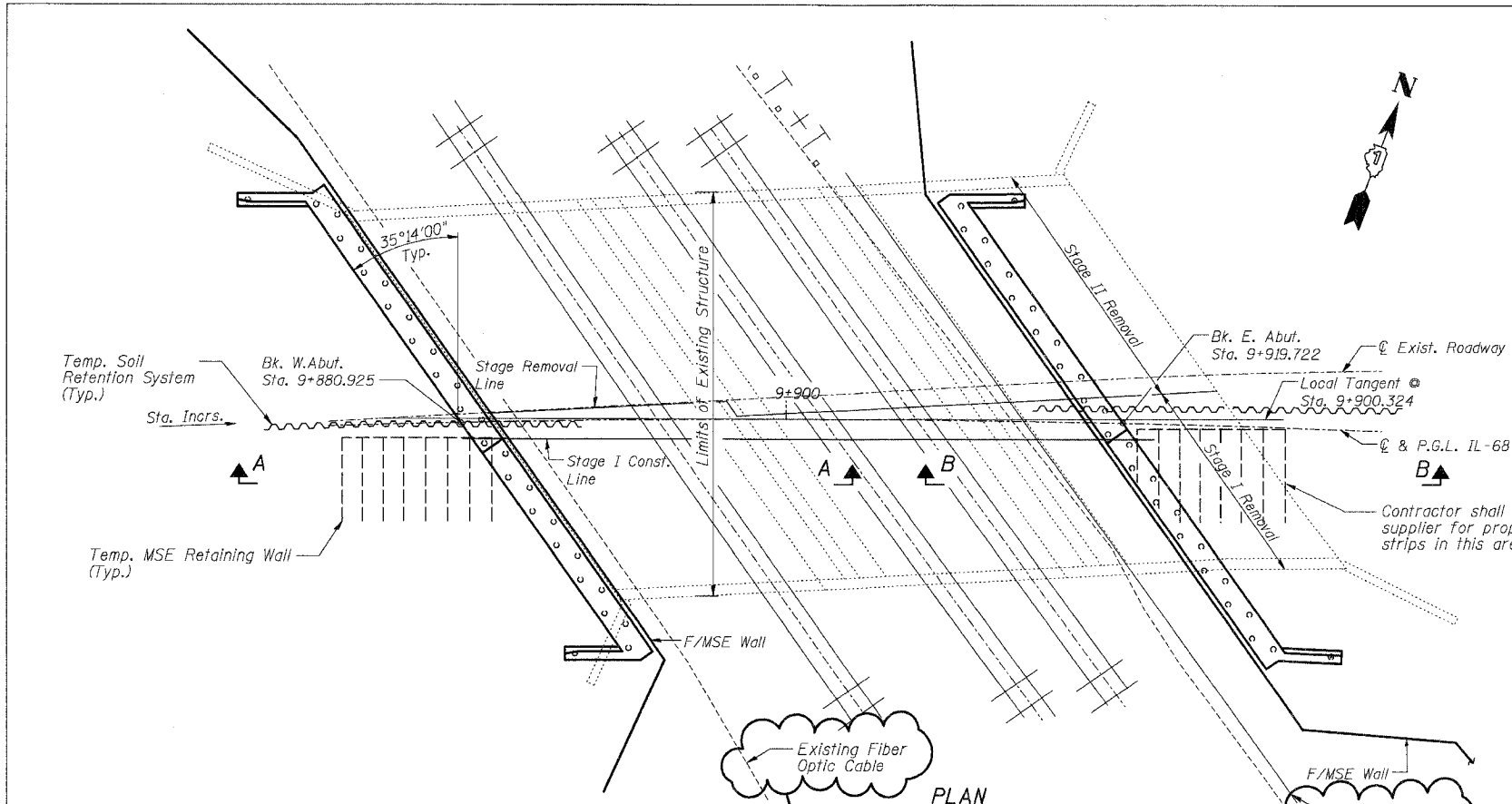
SHT. S-03 OF S-34

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
 IL ROUTE 68 OVER UPRR
 F.A.P. ROUTE 343 SECTION 700-Y-B-R
 COOK COUNTY STATION 9+900.324
 STRUCTURE NO. 016-2732
FOUNDATION PLAN
 DESIGNED: BTO DRAWN: BTO
 CHECKED: JAN CHECKED: JAN
 DATE: 02/07

2 Addendum #2 2/15/07

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
343	70D-Y-B-R	COOK	283	158
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		
CONTRACT NO. 62897				

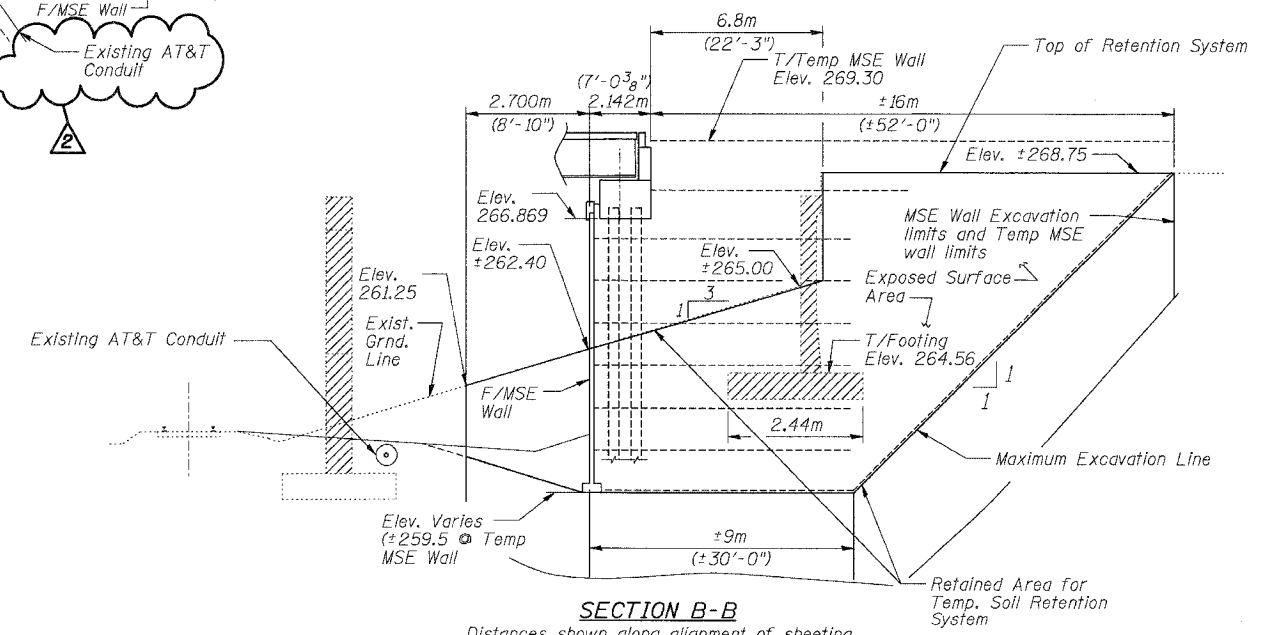
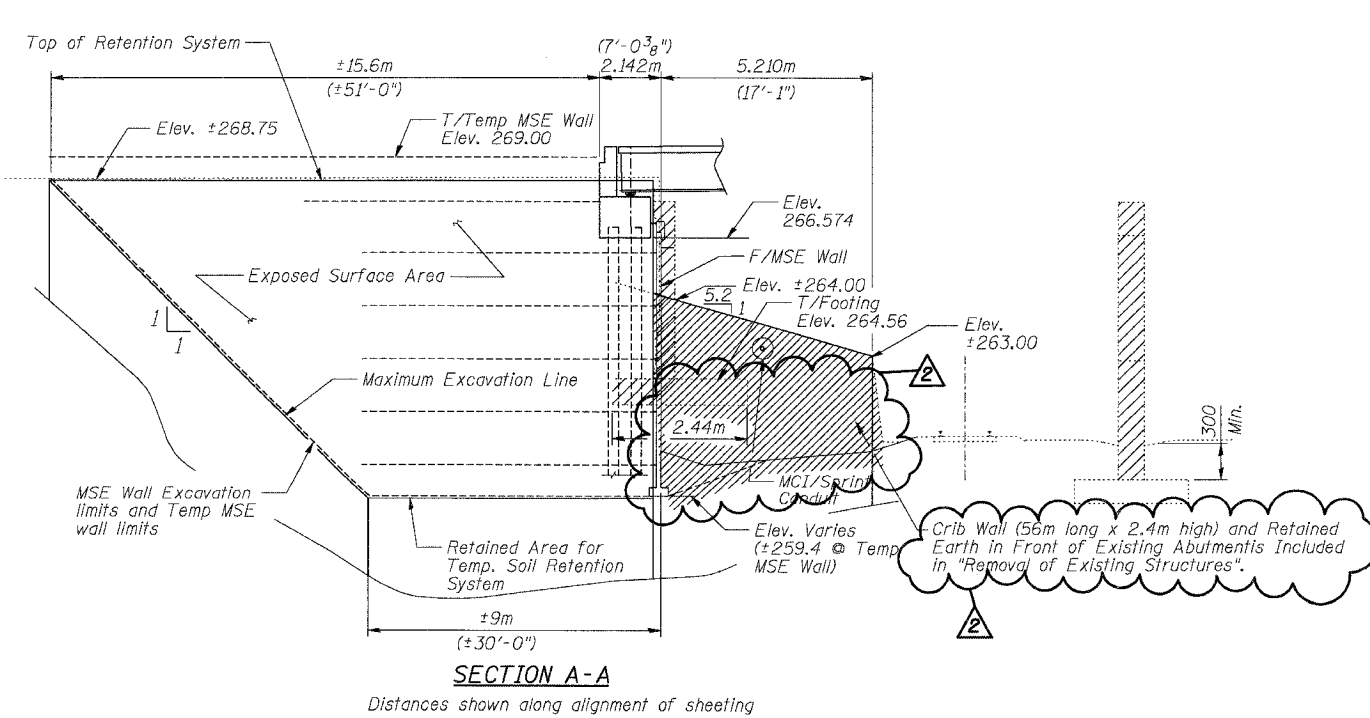


BILL OF MATERIAL

Item	Unit	Total
Temporary Soil Retention System	SQ M	218
Temporary Mechanically Stabilized Earth Retaining Wall	SQ M	255

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.



LEGEND

Structure Removal

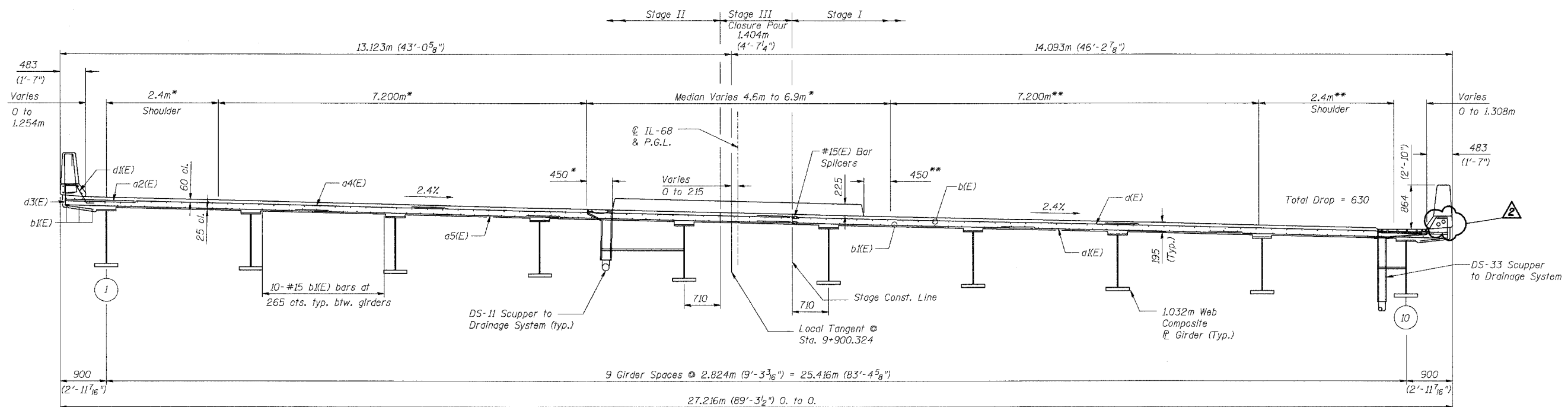
Addendum #2 2/15/07

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
 IL ROUTE 68 OVER UPRR
 F.A.P. ROUTE 343 SECTION 70D-Y-B-R
 COOK COUNTY STATION 9+900.324
 STRUCTURE NO. 016-2732
 TEMPORARY SOIL RETENTION SYSTEM
 AND TEMPORARY MSE WALL
 DESIGNED: BTO DRAWN: BTO
 DATE: 02/07 CHECKED: JAN CHECKED: JAN

SHT. S-04 OF S-34

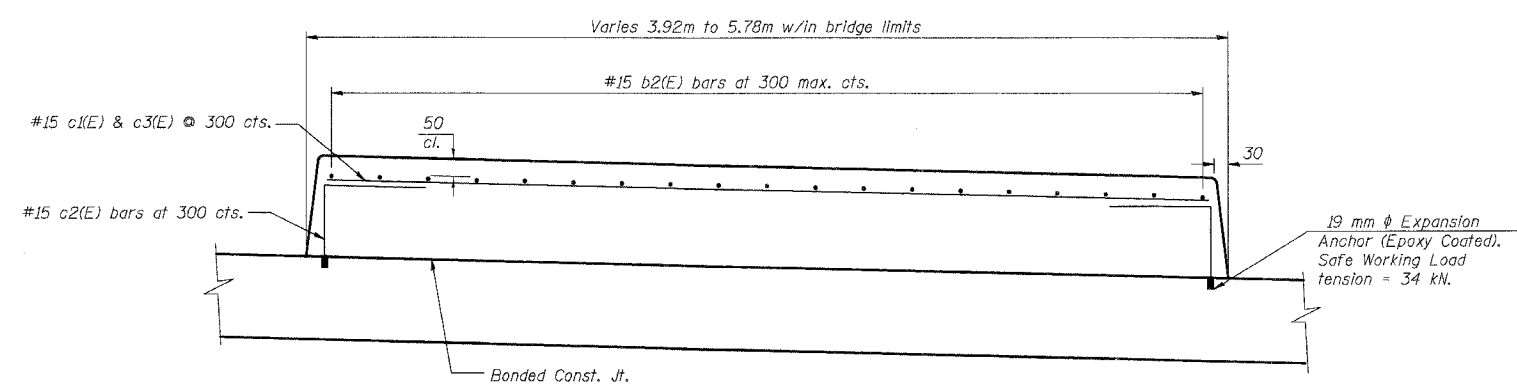
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
343	70D-Y-B-R	COOK	283	165
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT			
CONTRACT NO. 62897				



DECK CROSS SECTION

(Looking East)
 (Horizontal Dimensions @ Rt. L's to Local Tangent unless noted otherwise.)

* Radial Dimensions w/ respect to north shoulder line
 ** Radial Dimensions w/ respect to south shoulder line



SUPERIMPOSED MEDIAN

NOTES:

1. Reinforcement bars designated (E) shall be epoxy coated.
2. See Sht. S-12 of S-34 for superstructure details.
3. See Sht. S-13 of S-34 for parapet reinforcement and bill of material.

REVISIONS	
NAME	DATE

SHT. S-11 OF S-34

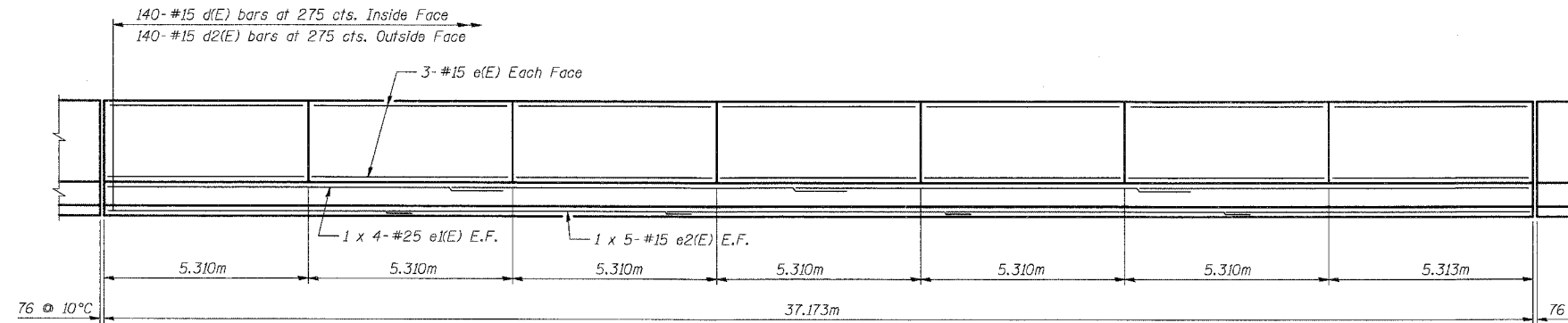
ILLINOIS DEPARTMENT OF TRANSPORTATION
 IL ROUTE 68 OVER UPRR
 F.A.P. ROUTE 343 SECTION 70D-Y-B-R
 COOK COUNTY STATION 9+900.324
 STRUCTURE NO. 016-2732

DECK CROSS SECTION

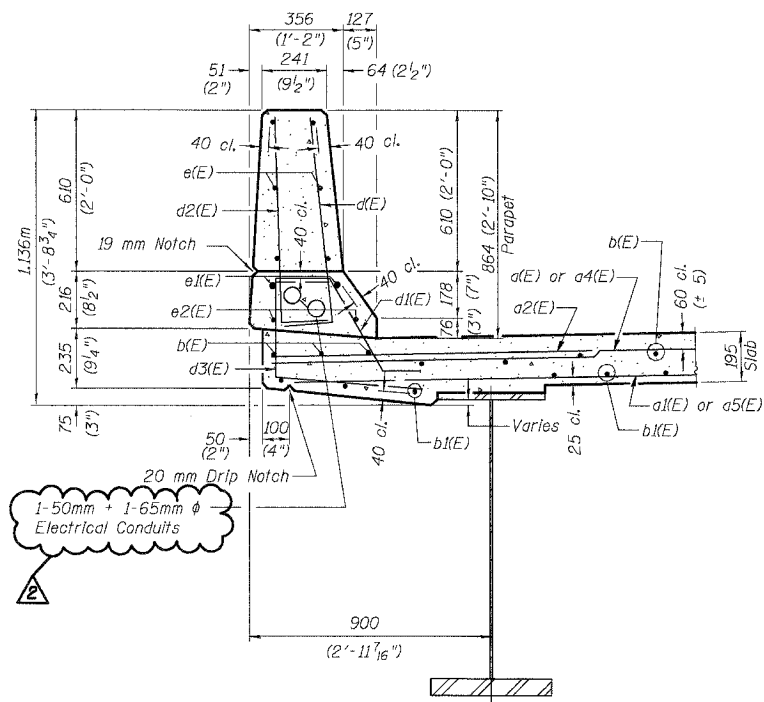
DESIGNED: BTO DRAWN: BTO
 DATE: 02/07 CHECKED: JAN CHECKED: JAN

Addendum #2 2/15/07

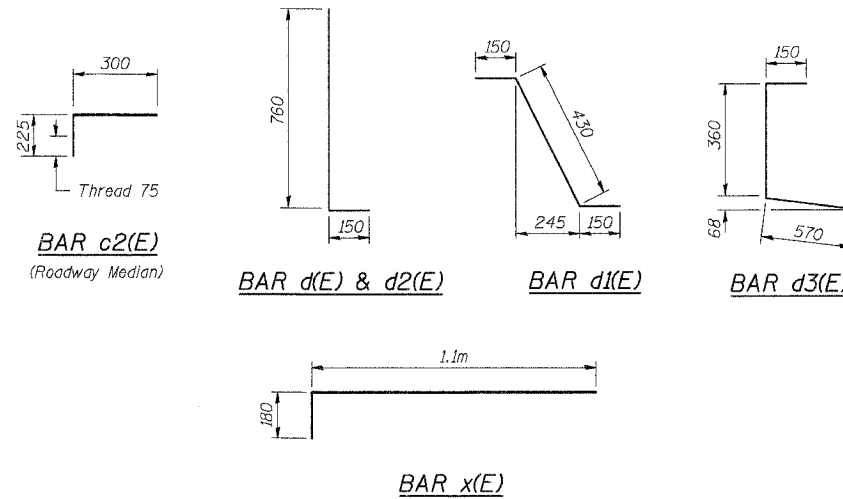
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
343	700-Y-B-R	COOK	283	167
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		
CONTRACT NO. 62897				



INSIDE ELEVATION OF PARAPET

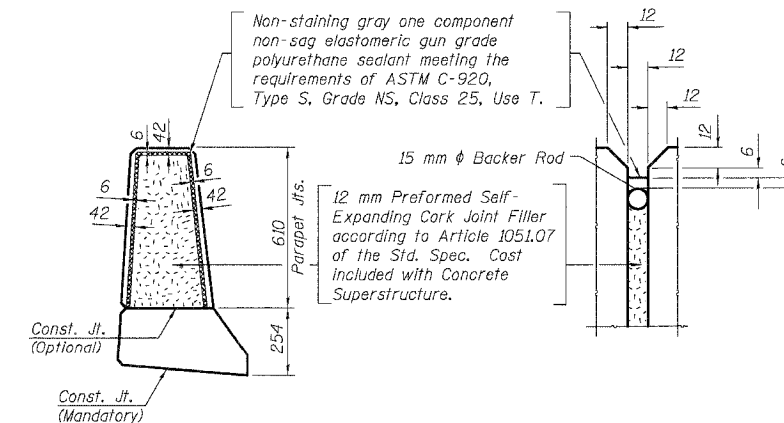


SECTION THRU PARAPET



SUPERSTRUCTURE BILL OF MATERIAL

Bar	No.	Size	Length (m)	Shape
a1(E)	618	15	6.700	—
a2(E)	310	20	1.400	—
a3(E)	8	15	8.160	—
a4(E)	618	15	7.420	—
a5(E)	618	15	5.160	—
a6(E)	8	15	9.010	—
a7(E)	32	15	0.450	—
a8(E)	8	15	0.600	—
b(E)	376	15	9.750	—
b1(E)	480	15	7.930	—
b2(E)	76	15	9.920	—
c1(E)	66	15	4.620	—
c2(E)	248	15	0.525	—
c3(E)	69	15	5.350	—
d(E)	280	15	0.910	—
d1(E)	272	15	0.730	—
d2(E)	280	15	0.910	—
d3(E)	272	15	1.080	—
e(E)	84	15	5.230	—
e1(E)	16	25	10.260	—
e2(E)	20	15	8.080	—
x(E)	176	20	1.280	—
Reinforcement Bars, Epoxy Coated			Kg	42.390
Concrete Superstructure			Cu M	303.3



PARAPET JOINT DETAILS

NOTES:

1. Reinforcement bars designated (E) shall be epoxy coated.
2. All Expansion Anchors shall be Epoxy Coated and included in the cost of "Reinforcement Bars, Epoxy Coated".

MIN. BAR LAP

#15 bar = 640
#25 bar = 1.320m

SHT. S-13 OF S-34

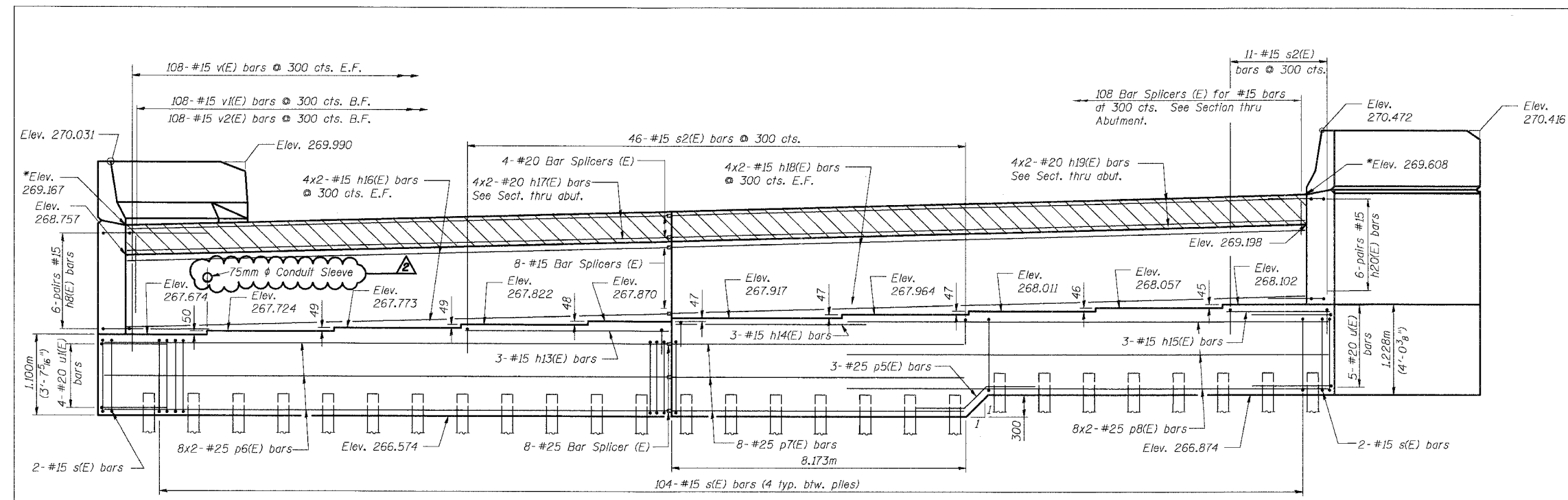
REVISIONS	NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
IL ROUTE 68 OVER UPRR
F.A.P. ROUTE 343 SECTION 700-Y-B-R
COOK COUNTY STATION 9+900.324
STRUCTURE NO. 016-2732
PARAPET ELEVATION, DECK DETAILS, & B.O.M.
DESIGNED: BTO
CHECKED: JAN
DATE: 02/07
DRAWN: BTO
CHECKED: JAN

Addendum #2 2/15/07

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
343	700-Y-B-R	COOK	283	179
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT			

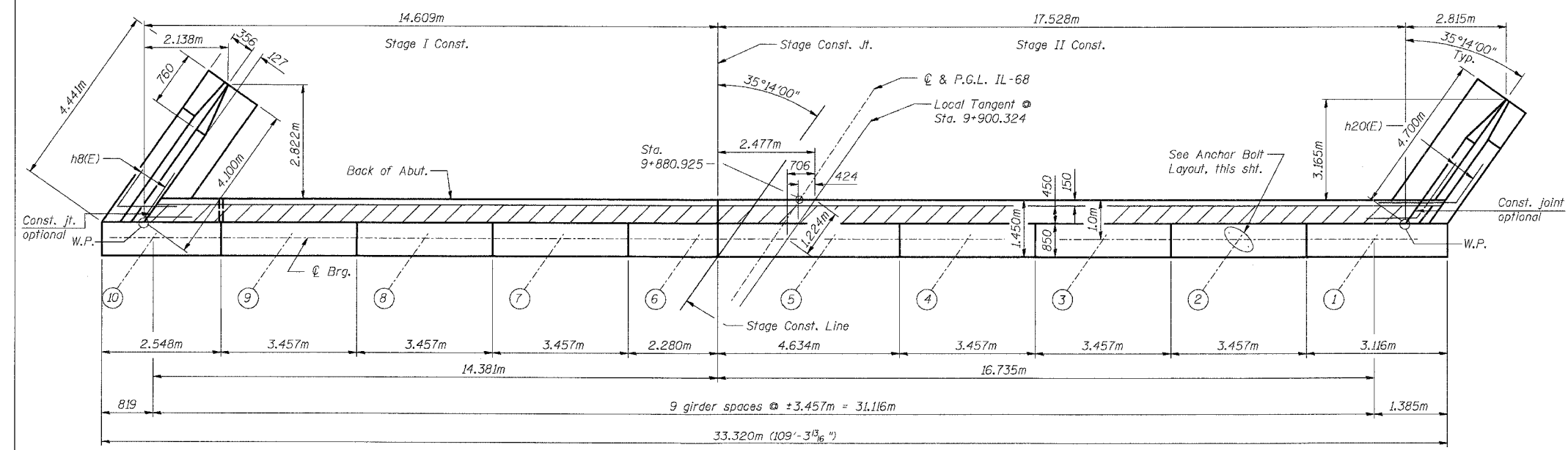
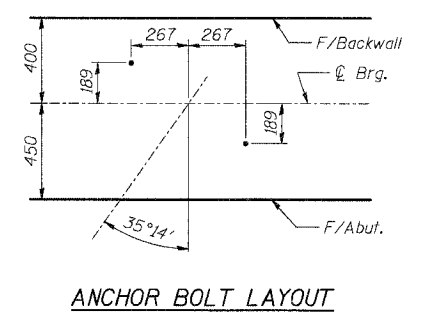
CONTRACT NO. 62897



*At Front Face of hatch block

MIN. BAR LAP

#15 Bars	= 640
#20 Bars	= 790
#25 Bars	= 1.320m



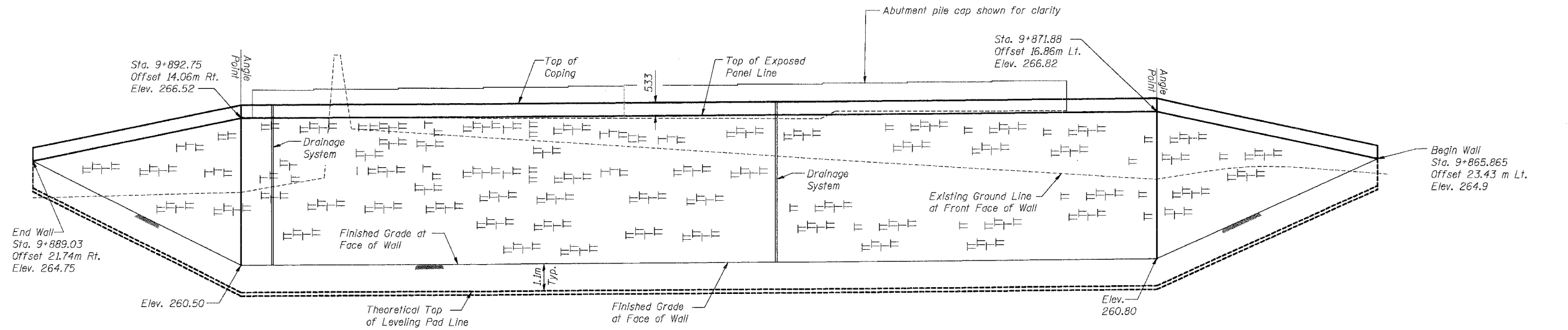
- NOTES:**
- Hatched area to be poured after superstructure forms have been removed.
 - Space reinforcement in cap to miss anchor bolts.
 - Pour steps monolithically with cap.
 - Reinforcement bars designated (E) shall be epoxy coated.
 - Bars indicated thus 4x2-#15 etc. Indicates 4 lines of bars with 2 lengths per line.
 - For anchor bolt details, see sht. S-21 of S-34.

SHT. S-25 OF S-34

REVISIONS		ILLINOIS DEPARTMENT OF TRANSPORTATION IL ROUTE 68 OVER UPRR F.A.P. ROUTE 343 SECTION 700-Y-B-R COOK COUNTY STATION 9+900.324 STRUCTURE NO. 016-2732 WEST ABUTMENT PLAN & ELEVATION
NAME	DATE	
		DESIGNED: BTO DRAWN: BTO
		DATE: 02/07 CHECKED: JAN CHECKED: JAN

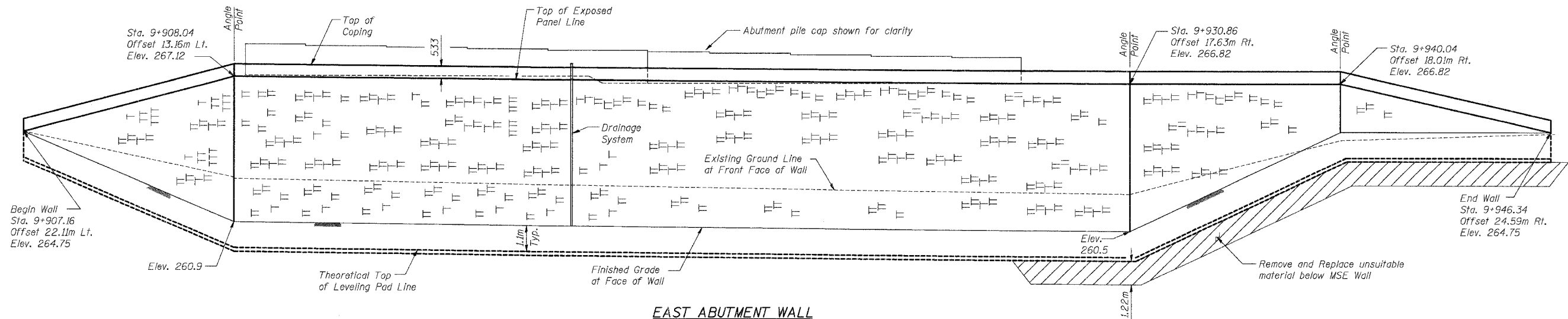
Addendum #2 2/15/07

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
343	70D-Y-B-R	COOK	283	182
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		
CONTRACT NO. 62897				



WEST ABUTMENT WALL
(Unfolded Elevation View)

Stationing and Offsets from @ IL-68.



EAST ABUTMENT WALL
(Unfolded Elevation View)

BILL OF MATERIAL

Item	Unit	Total
Mechanically Stabilized Earth Retaining Wall	SQ M	726

NOTES:

Stationing and Offsets from @ IL-68.

For Plan of Mechanically Stabilized Earth Retaining Walls see sheet S-01 of S-34.

For Section Through MSE Retaining Walls see sheet S-02 of S-34.

Bearing Capacity of soil below MSE Wall is 215 kPa with a corresponding Factor of Safety of 2.5.

Addendum #2 2/15/07

SHT. S-28 OF S-34

REVISIONS	
NAME	DATE

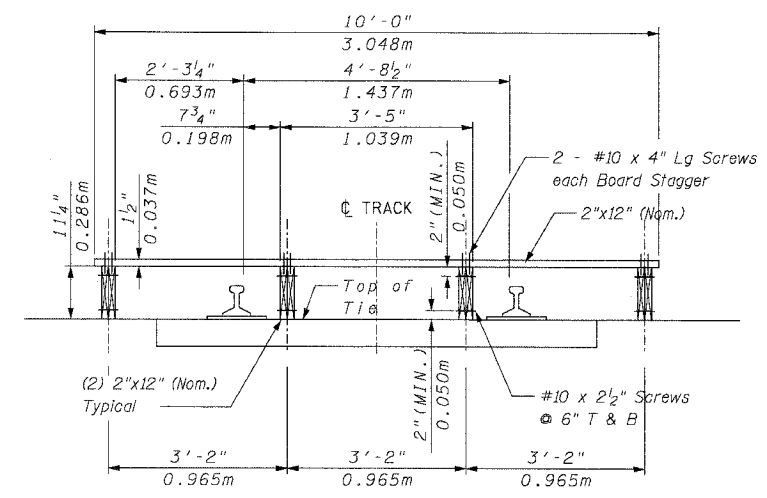
ILLINOIS DEPARTMENT OF TRANSPORTATION
IL ROUTE 68 OVER UPRR
F.A.P. ROUTE 343 SECTION 70D-Y-B-R
COOK COUNTY STATION 9+900.324
STRUCTURE NO. 016-2732

MECHANICALLY STABILIZED EARTH RETAINING WALLS

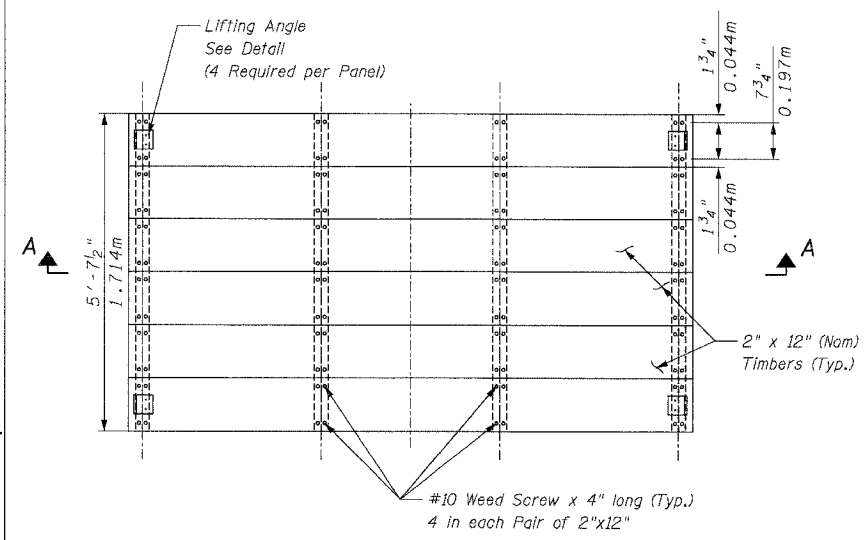
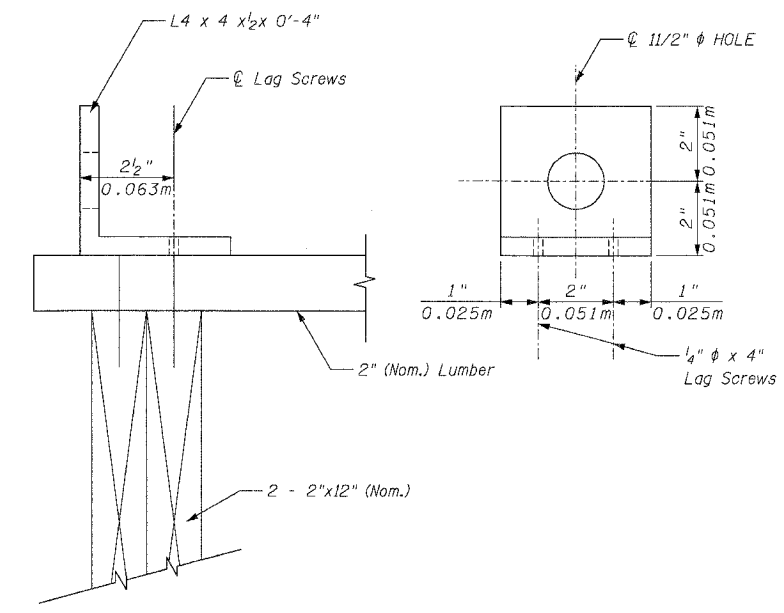
DESIGNED: BTO DRAWN: BTO
DATE: 02/07 CHECKED: JAN CHECKED: JAN

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
343	700-Y-B-R	COOK	283	185A
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

CONTRACT NO. 62897



SECTION A-A

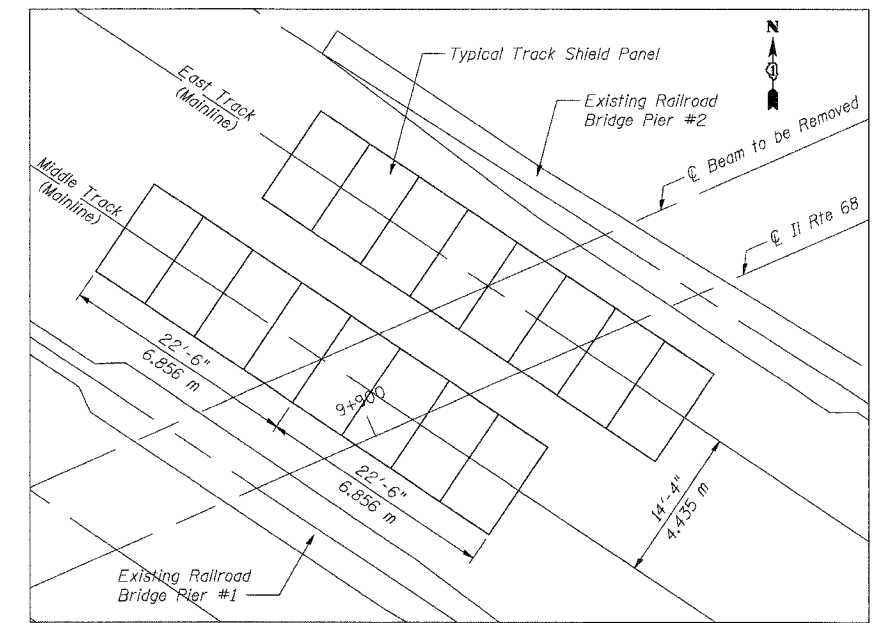


TRACK SHIELD PANEL

16 Required

WT. OF TRACK SHIELD

2x12x5'-7 1/2"x8' = 3.52 PDF x 5.63' x 8	= 158.4 Lb.
2x12x10'-0"x6' = 3.52 PDF x 10.0' x 6	= 211.2 Lb.
L4x4x1/2x4=12.8 PDF x 0.25 x 4	= 12.8 Lb.
48 Wood Screws x 2 1/2"	= 4.0 Lb.
48 Wood Screws x 4"	= 8.0 Lb.
Approx. 394.4 Lb.	
Use 400.0 Lb.	



PLAN

NOTES:

1. A flagman is required at all times during the use of a Track Shield.
2. Before removal, the shield shall be cleaned of all debris and fine material.
3. The track shield shall extend at least 20 feet beyond the limits of demolition transverse to the edge of the bridge.
4. Longitudinal support members for the shield shall not extend above the top of rail when the shield is removed. blocking from the top of rail to the bottom of the shield may be attached to the shield. Remaining timbers shall be anchored.
5. For train passage, The rubble shall be removed to a minimum of 8' 6" from the nearest rail and to an elevation no higher than the top of rail.
6. At the end of the day, the rubble shall be removed completely to a minimum of 10' 0" from the nearest rail and down to the original grade.
7. Care shall be taken not to place metal across the track rails. Railroad connections are sent through the rails and will be disrupted by a short between the rails.
8. Lumber shall be Southern Pine, No. 1 or equivalent.

SHT. S-32 OF S-34

REVISIONS	
NAME	DATE

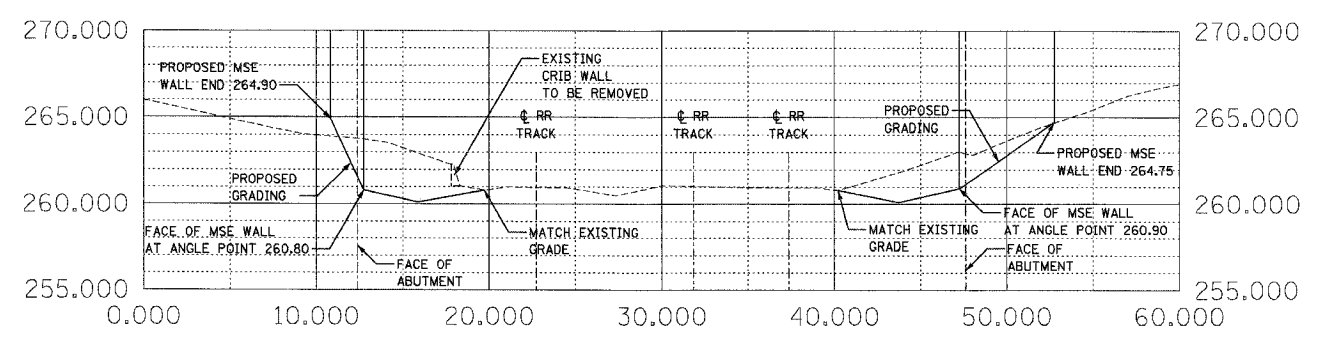
ILLINOIS DEPARTMENT OF TRANSPORTATION
 IL ROUTE 68 OVER UPRR
 F.A.P. ROUTE 343 SECTION 700-Y-B-R
 COOK COUNTY STATION 9+900.324
 STRUCTURE NO. 016-2732
TRACK SHIELD DETAILS
 DESIGNED: RLC DRAWN: GH
 DATE: 02/07 CHECKED: JAN CHECKED: RLC

Addendum #2 2/15/07

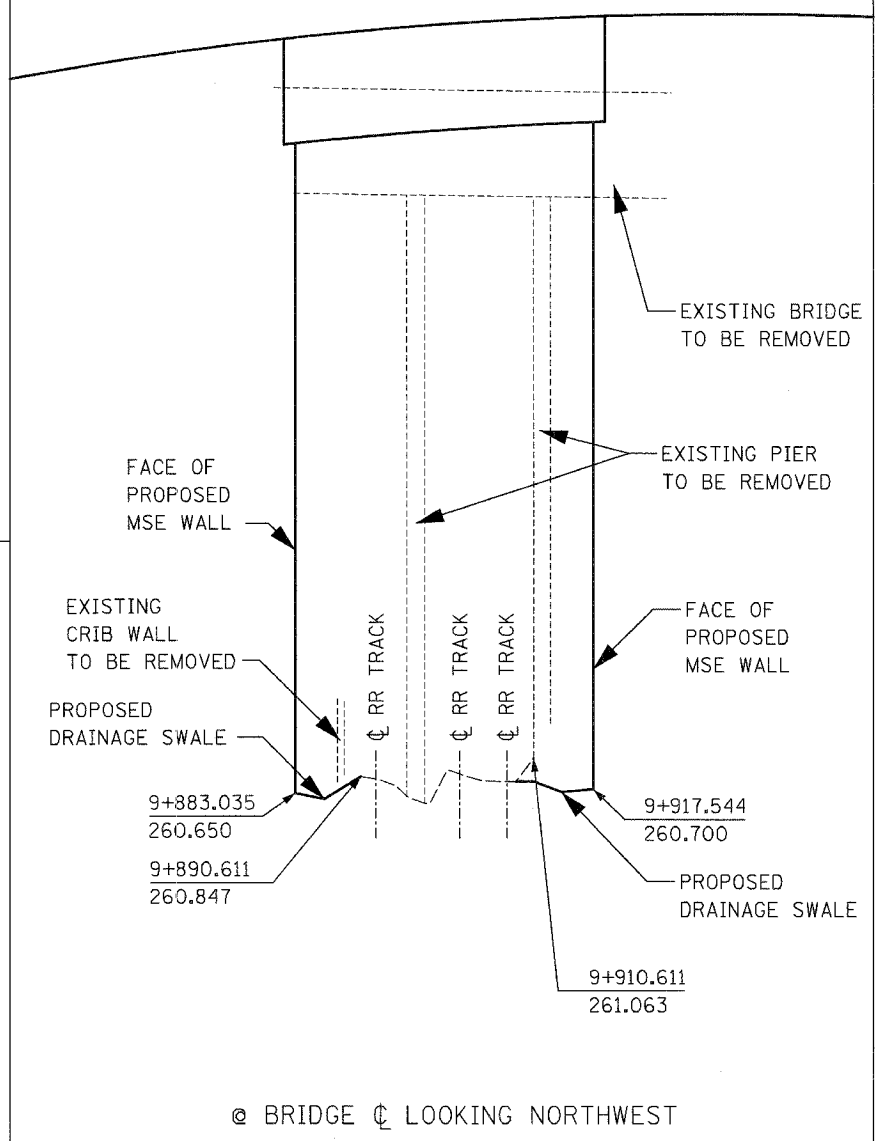
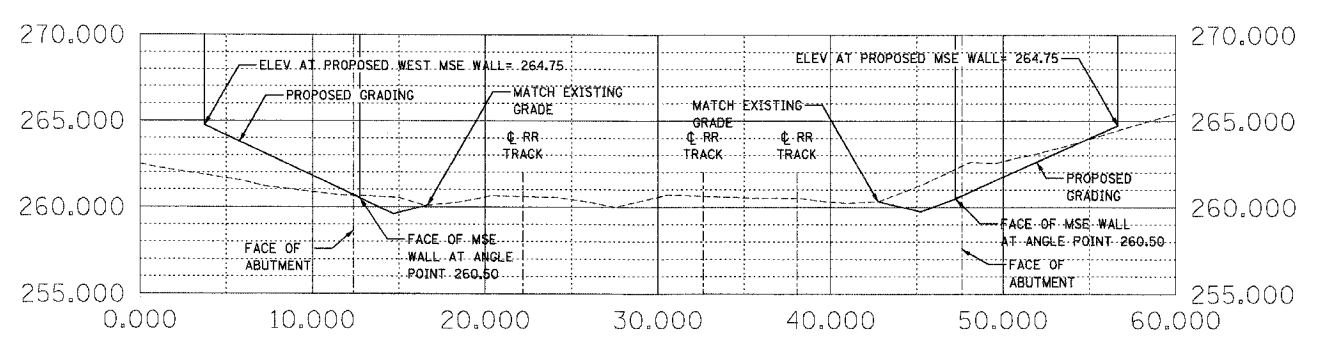
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
343	700-Y-B-R	COOK	283	185C
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		
CONTRACT NO. 62897				



NORTHERLY PROFILE
PROPOSED WEST MSE WALL TO PROPOSED EAST MSE WALL



SOUTHERLY PROFILE
PROPOSED WEST MSE WALL TO PROPOSED EAST MSE WALL



@ BRIDGE C LOOKING NORTHWEST

SHT. S-34 OF S-34

REVISIONS	NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
IL ROUTE 68 OVER UPRR
F.A.P. ROUTE 343 SECTION 700-Y-B-R
COOK COUNTY STATION 9+900.324
STRUCTURE NO. 016-2732
UPRR CROSS SECTION & DRAINAGE
DESIGNED: DRAWN: GRH
DATE: 02/07 CHECKED: CHECKED: LLK

Addendum #2 2/15/07

V:\UPRR_343.dwg 2/15/2007 3:11:41 PM

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
343	70HB-R-1	COOK	283	186
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS		FED. AID PROJECT	

CONTRACT NO. 62897

BENCH MARK

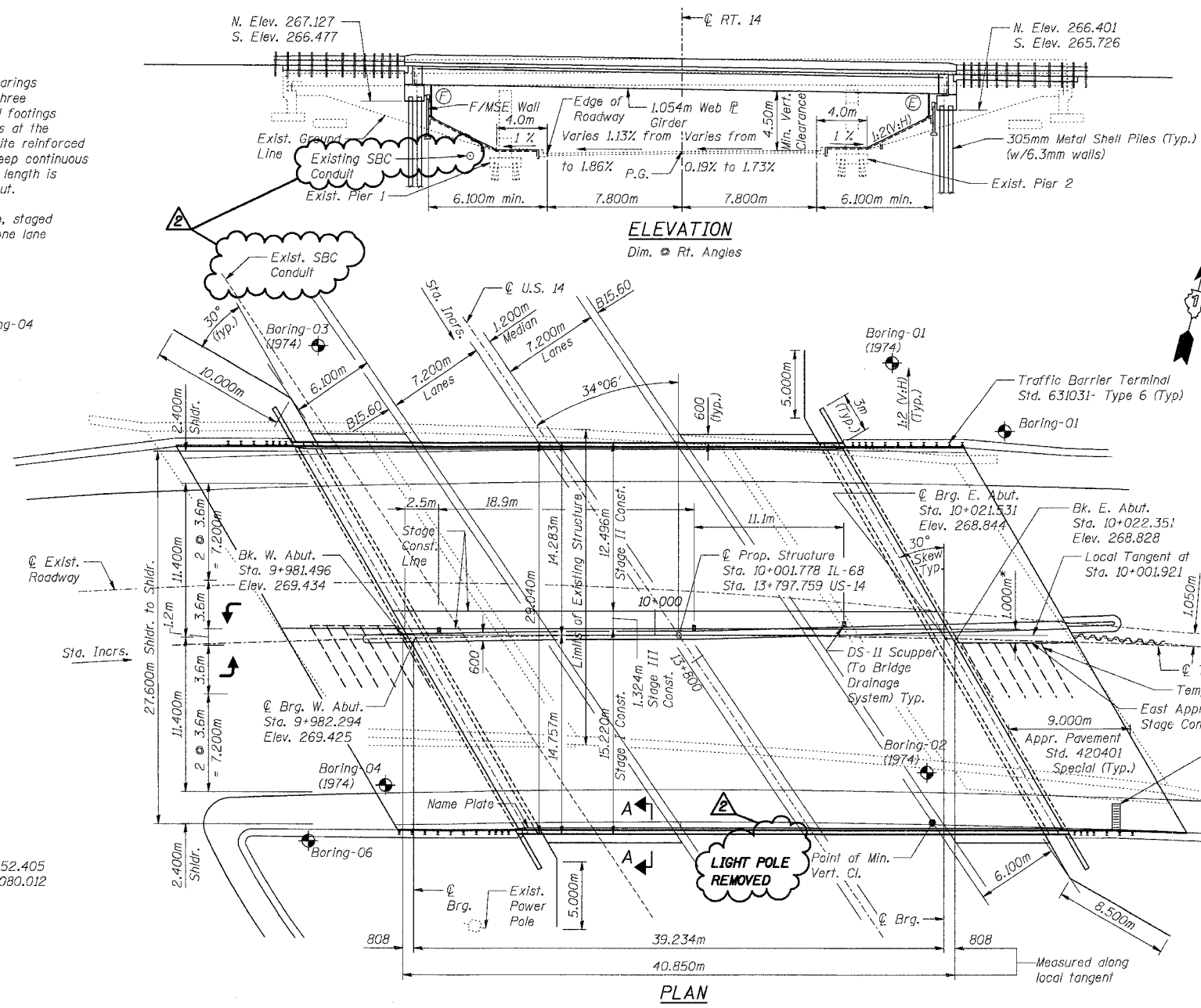
Chiseled 'C' SE corner of East abutment of IL-68 bridge over US 14
Elev. 269.205

EXISTING STRUCTURE

S.N. 016-2410 was built in 1974. The bearings were cleaned and painted in 1992. The three span structure rests on concrete spread footings at the abutments and treated timber piles at the concrete multi-column piers. The composite reinforced concrete deck is supported by 920mm deep continuous steel beams. The back to back abutment length is 62.76m and the deck is 23.16m out to out.

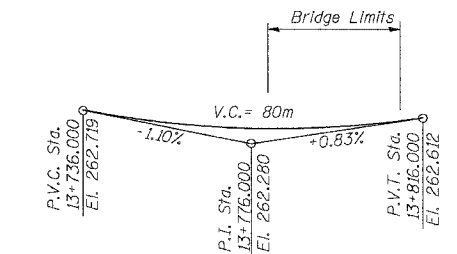
During construction of the new structure, staged construction will be utilized to maintain one lane of traffic in each direction.

No salvage.

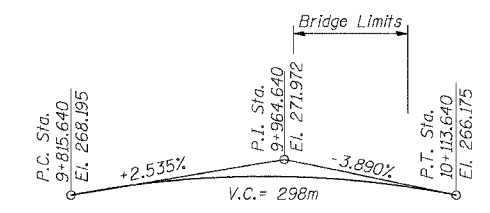


ELEVATION
Dim. @ Rt. Angles

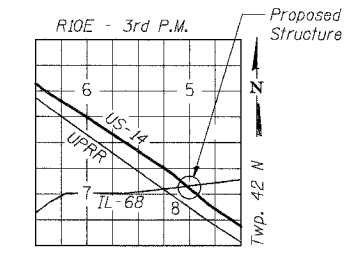
PLAN



PROFILE GRADE LINE
US Route 14



PROFILE GRADE LINE
IL Route 68



LOCATION SKETCH

STATION 10+001.778
BUILT 20 BY
STATE OF ILLINOIS
F.A.P. RT. 343 SEC 70HB-R-1
COOK COUNTY
LOADING HS20
STR. NO. 016-2861

NAME PLATE
See Std. 515001

HORIZONTAL CURVE DATA

Curve 68-1
PI Sta. = 9+966.854 E = 7.453m
Δ = 14°54'14" RT. S.E. = 2.4%
R = 875.000m P.C. Sta. = 9+852.405
T = 114.450m P.T. Sta. = 10+080.012
L = 227.607m

LOADING HS20-44

Allow 2.4 kN/m² future wearing surface

DESIGN SPECIFICATION

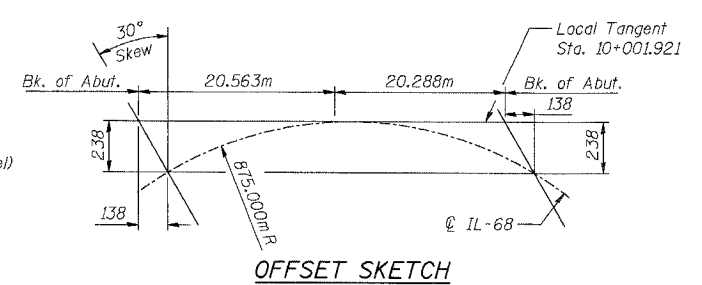
2002 AASHTO Std. Spec, 17th edition

DESIGN STRESSES

NEW CONSTRUCTION
f'_c = 24 MPa (concrete)
f_y = 400 MPa (reinforcement)
f_y = 345 MPa (AASHTO M 270M, Gr. 345 struc. steel)

SEISMIC DATA

Seismic Performance Category (SPC) = A
Bedrock Acceleration Coefficient (A) = 0.04g
Site Coefficient (S) = 1.0



OFFSET SKETCH

* Offset East Approach Stage Const. Line to avoid interference with existing beams.

NOTES:

- All dimensions in millimeters (mm) except as noted.
- For section A-A, see Sht. S-02 of S-27.

SHT. S-01 OF S-27

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
IL ROUTE 68 OVER US ROUTE 14
F.A.P. ROUTE 343 SECTION 70HB-R-1
COOK COUNTY STATION 10+001.778
STRUCTURE NO. 016-2861

GENERAL PLAN

DESIGNED: BTO DRAWN: BTO
CHECKED: JAN CHECKED: JAN

DATE: 02/07

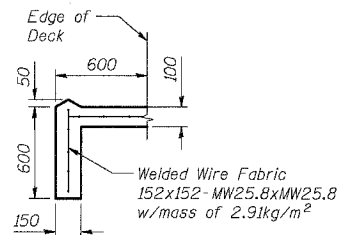
Addendum #2 2/15/07



GENERAL NOTES

- Fasteners shall be high strength bolts. Bolts M22, open holes 24 mm ϕ , unless otherwise noted.
- Calculated weight of Structural Steel:
AASHTO (M270M GR 345) = 185,270 kg (Erection Only- Included in Beam Fabrication Contract)
AASHTO (M270M GR 250) = 11,850 kg (Erection Only- Included in Beam Fabrication Contract)
- Field welding of construction accessories will not be permitted to girders.
- Anchor bolts shall be set before bolting diaphragms over supports.
- The main load carrying member components subject to tensile stress shall conform to the Supplemental Requirements for Notch Toughness Zone 2. These components are the tension flanges and webs of the plate girders.
- Reinforcement bars shall conform to the requirements of AASHTO M31M, M322M, Grade 400.
- Slope wall shall be reinforced with welded wire fabric, 152x152-MW25.8xMW25.8, w/mass of 2.91kg/m².
- The contractor shall drive 2-305 mm metal shell test piles in a permanent location, one for each abutment as directed by the Engineer before ordering the remainder of the piles.
- All dimensions are in millimeters (mm) except as noted.
- The existing structural steel coating contains lead. The Contractor shall take appropriate precautions to deal with the presence of lead on this project.
- All construction joints shall be bonded.
- The organic zinc rich primer/epoxy/urethane paint system shall be used for painting of new structural steel except where otherwise noted. The entire system shall be shop applied, with the exception that masked off connection surfaces, field installed fasteners and damaged areas shall be touched up in the field. The color of the final finish coat for all interior steel surfaces shall be gray, Munsell No. 5HB 7/1. The color of the final finish coat for the exterior and bottom flange of the fascia beams shall be Reddish Brown, Munsell No. 2.5YR 3/4. See Special Provision for "Cleaning and Painting New Metal Structures."

13. Slipforming of parapets containing conduit is not allowed.



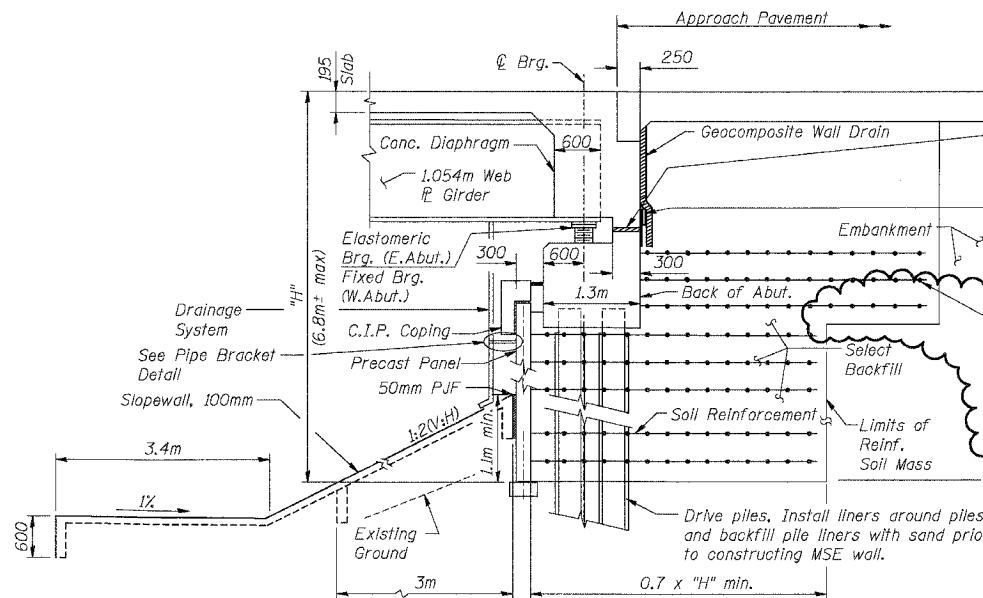
SECTION A-A
(See Sht. S-01 for location)

TOTAL BILL OF MATERIAL

ITEM	UNIT	SUB-STRUCT.	SUPER-STRUCT.	TOTAL
Removal of Existing Structures	EACH			1
Structure Excavation	CU M	701		701
Concrete Structures	CU M	111.2		111.2
Concrete Superstructure	CU M		345.0	345.0
Bridge Deck Grooving	SQ M		1083	1083
Protective Coat	SQ. M		1237	1237
Erecting Elastomeric Bearing Assembly, Type I	EACH		11	11
Erecting Structural Steel	L.S.		0.55	0.55
Stud Shear Connectors	EACH		2708	2708
Reinforcement Bars, Epoxy Coated	KG	6110	47550	53660
Furnishing Metal Shell Piles 305mm	METER	1276		1276
Driving Piles	METER	1276		1276
Test Pile Metal Shells	EACH	2		2
Temporary Sheet Piling	SQ M	11.9		11.9
Geocomposite Wall Drain	SQ M		75	75
Name Plates	EACH	1		1
Anchor Bolts, M24	EACH	44		44
Sloped Wall, 100MM	SQ M	638		638
Temporary Mechanically Stabilized Earth Retaining Wall	SQ M	61		61
Drainage Scuppers, DS-11	EACH		3	3
Drainage System No. 1	EACH		1	1
Bar Splicers	EACH	186	522	708
Mechanically Stabilized Earth Retaining Wall	SQ M	287		287
Protective Shield	SQ M		1399	1399

INDEX OF SHEETS

- S-01 General Plan
- S-02 General Notes, B.O.M., & Index of Sheets
- S-03 Foundation Plan
- S-04 Temp. Sheet Piling & Temp. MSE Wall
- S-05 Existing Structure Removal
- S-06 Stage Construction Deck Sections
- S-07 Temporary Concrete Barrier
- S-08 Screed Plan & Top of Deck Elevations
- S-09 Top of Deck Elevations
- S-10 Deck Plan
- S-11 Deck Cross Section
- S-12 Superstructure Details
- S-13 Parapet Elevations, Deck Details, & B.O.M.
- S-14 Drainage Scupper, DS-11
- S-15 Bridge Drainage System
- S-16 Framing Plan & Moment Table
- S-17 Girder Elevation & Steel Details
- S-18 Bearing Details
- S-19 Anchor Bolt Details
- S-20 East Abutment Plan & Elevation
- S-21 East Abutment Details & Pile Details
- S-22 West Abutment Plan & Elevation
- S-23 West Abutment Details
- S-24 Mechanically Stabilized Earth Retaining Walls
- S-25 Bar Splicer Assembly
- S-26 Boring Logs
- S-27 Boring Logs



SECTION THRU SEMI-INTEGRAL ABUT.

Dimensions at Right Angles
*Cost Included with Concrete Superstructure
Allowable bearing pressure below MSE wall is 215 KPa with a Factor of Safety of 2.5

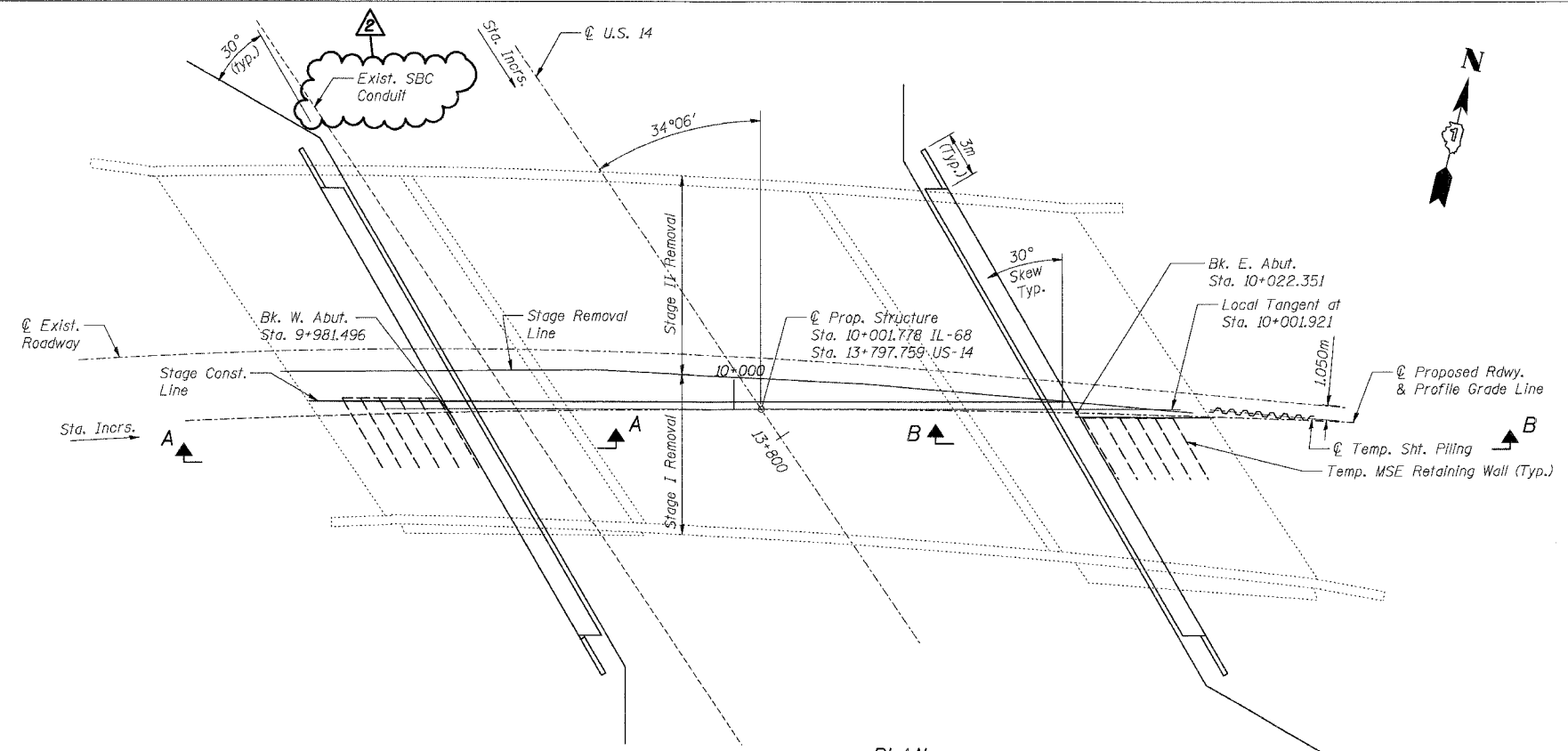
2 Addendum #2 2/15/07



REVISIONS	
NAME	DATE

SHT. S-02 OF S-27
ILLINOIS DEPARTMENT OF TRANSPORTATION
IL ROUTE 68 OVER US ROUTE 14
F.A.P. ROUTE 343 SECTION 70HB-R-1
COOK COUNTY STATION 10+001.778
STRUCTURE NO. 016-2861
GENERAL NOTES, B.O.M., & INDEX OF SHEETS
DESIGNED: BTO DRAWN: BTO
DATE: 02/07 CHECKED: JAN CHECKED: JAN

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
343	70HB-R-1	COOK	283	189
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT			
CONTRACT NO. 62897				



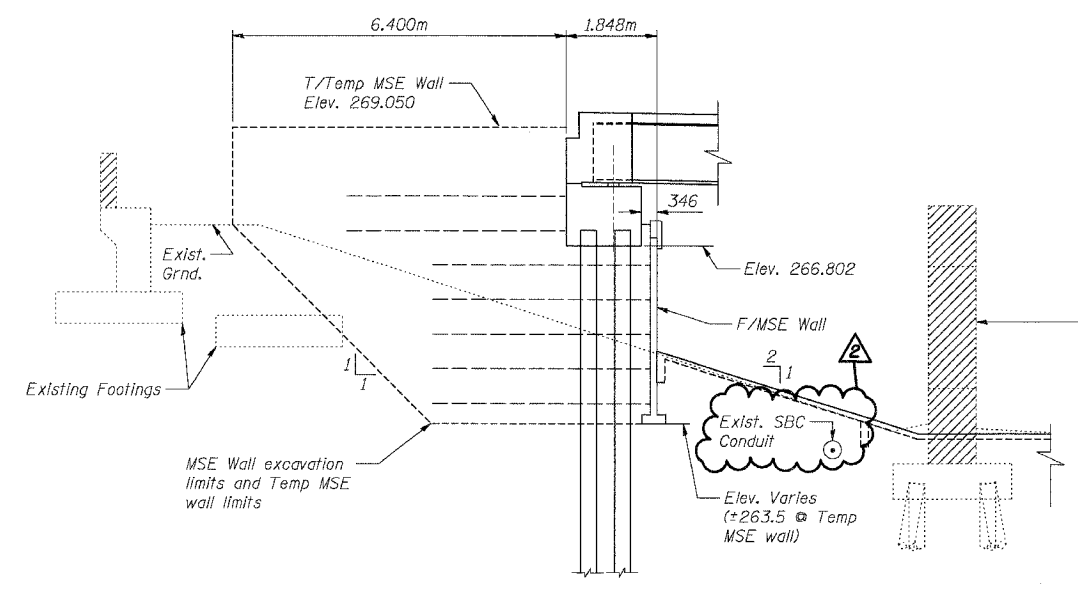
BILL OF MATERIAL

Item	Unit	Total
Temporary Sheet Piling	SQ M	11.9
Temporary Mechanically Stabilized Earth Retaining Wall	SQ M	61.0

NOTE:

- If the Contractor chooses to alter the temporary cantilevered sheet piling design requirements shown on the plans, a design submittal including plan details and calculations will be required for review and acceptance by the Engineer.
- See roadway drawings for roadway soil retainage requirements.

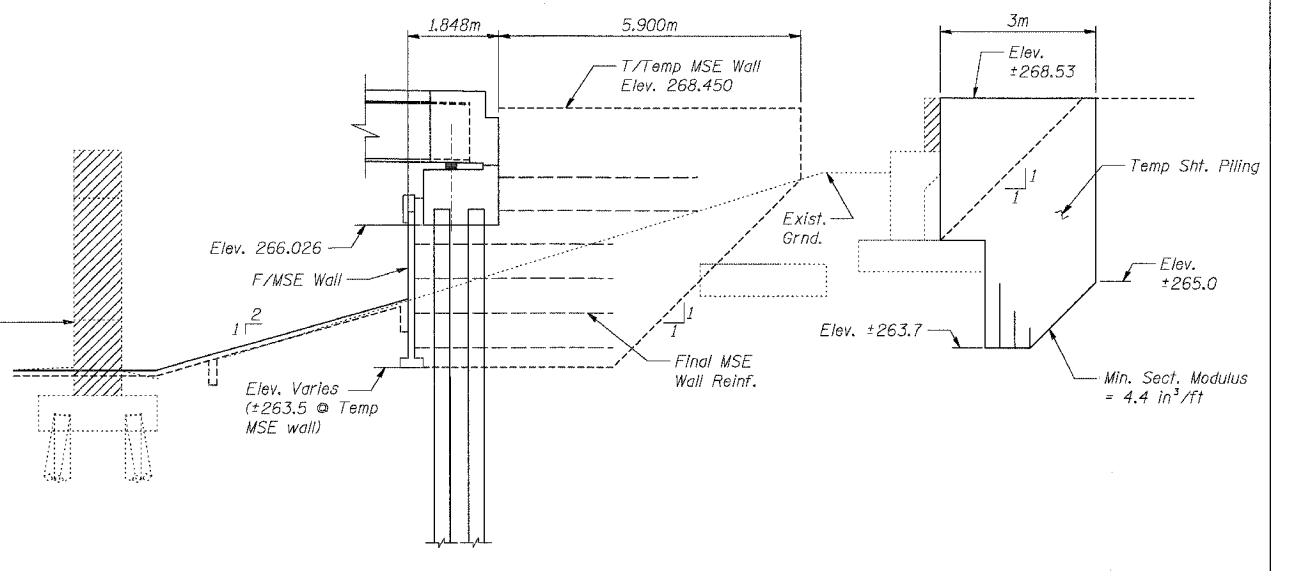
PLAN



SECTION A-A
Distances shown along alignment of sheeting

LEGEND

Structure Removal



SECTION B-B

Distances shown along alignment of sheeting

REVISIONS	
NAME	DATE

SHT. S-04 OF S-27

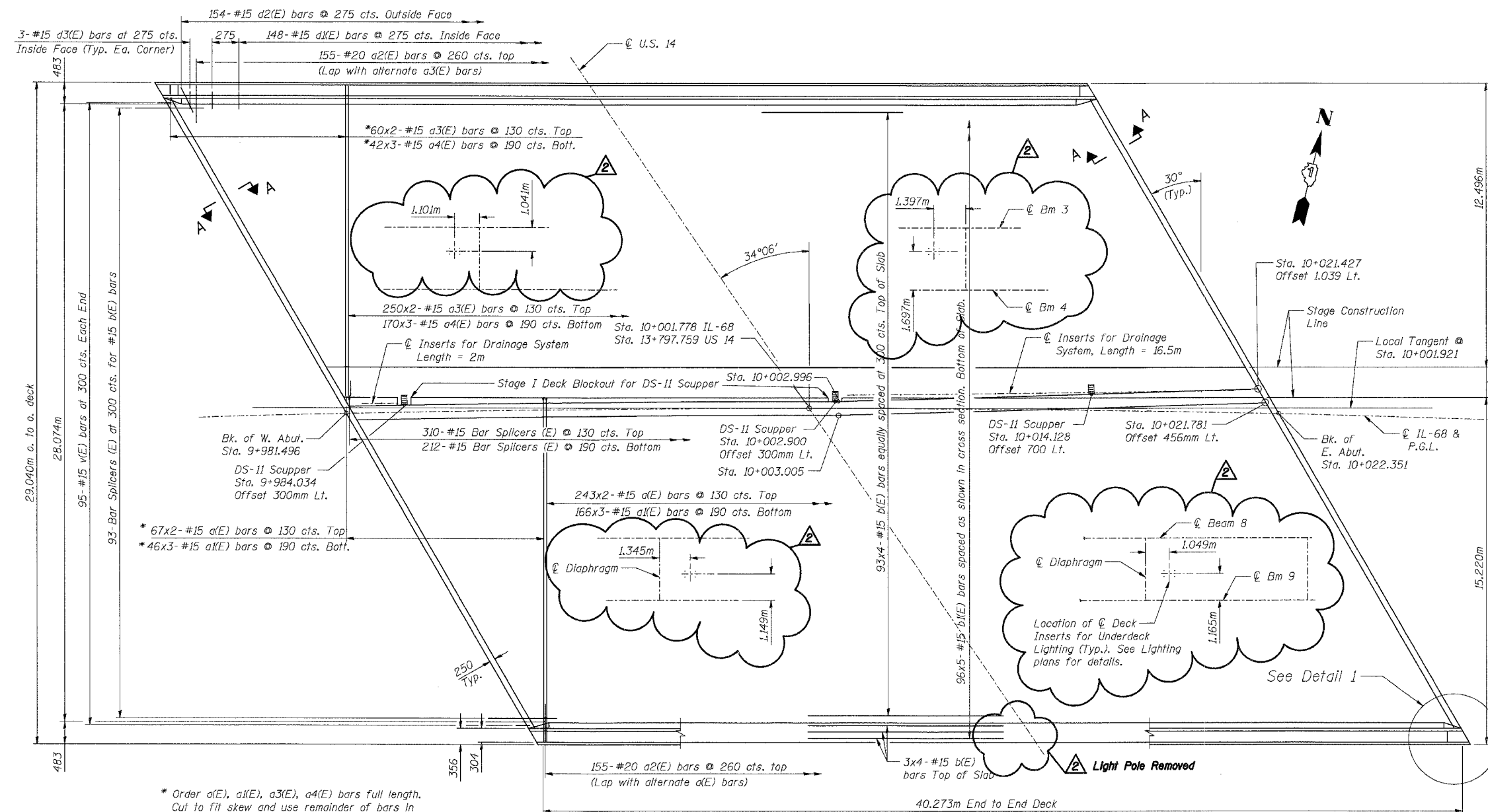
ILLINOIS DEPARTMENT OF TRANSPORTATION
 IL ROUTE 68 OVER US ROUTE 14
 F.A.P. ROUTE 343 SECTION 70HB-R-1
 COOK COUNTY STATION 10+001.778
 STRUCTURE NO. 016-2861
 TEMPORARY SHEET PILING
 AND MSE WALL
 DESIGNED: BTO DRAWN: BTO
 DATE: 02/07 CHECKED: JAN CHECKED: JAN

STV Incorporated
 Engineers/Architects/Planners/Construction Managers
 290 W. Missouri Street, Suite 1650
 Chicago, IL 60606-7011
 312/553-0655 FAX 312/553-0661

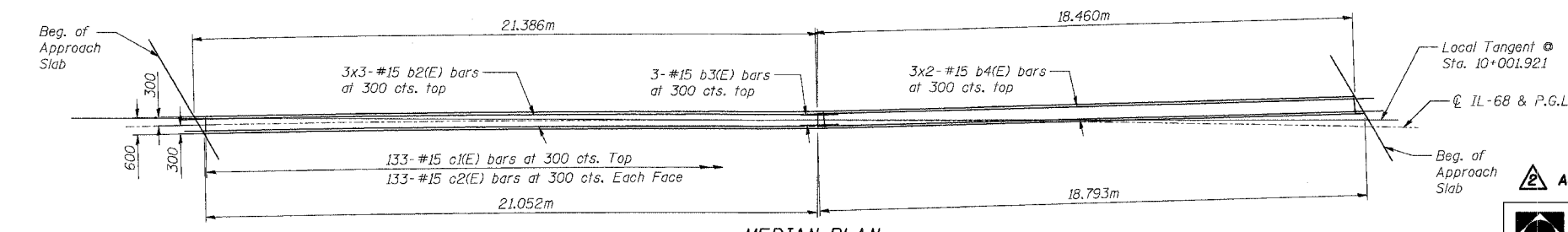
Addendum #2 2/15/07

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

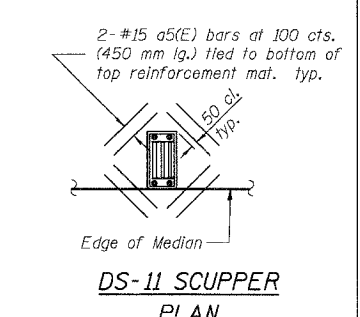
CONTRACT NO. 62897



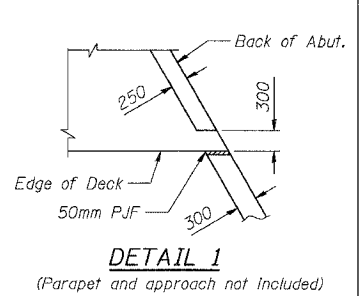
DECK PLAN



MEDIAN PLAN



DS-II SCUPPER PLAN



DETAIL 1

NOTES:

1. Bars Indicated thus 93x4-#15 etc. indicates 93 lines of bars with 4 lengths per line.
 2. Reinforcing Bar designated (E) Shall be Epoxy Coated.
 3. Expansion Anchors Required at Medians See Sht. S-11 of S-27 for Superimposed Median Details.
 4. For Sections A-A, see Sht. S-12 of S-27.
- Minimum Lap
 #15 Bars - 640
 #20 Bars - 790

SHT. S-10 OF S-27

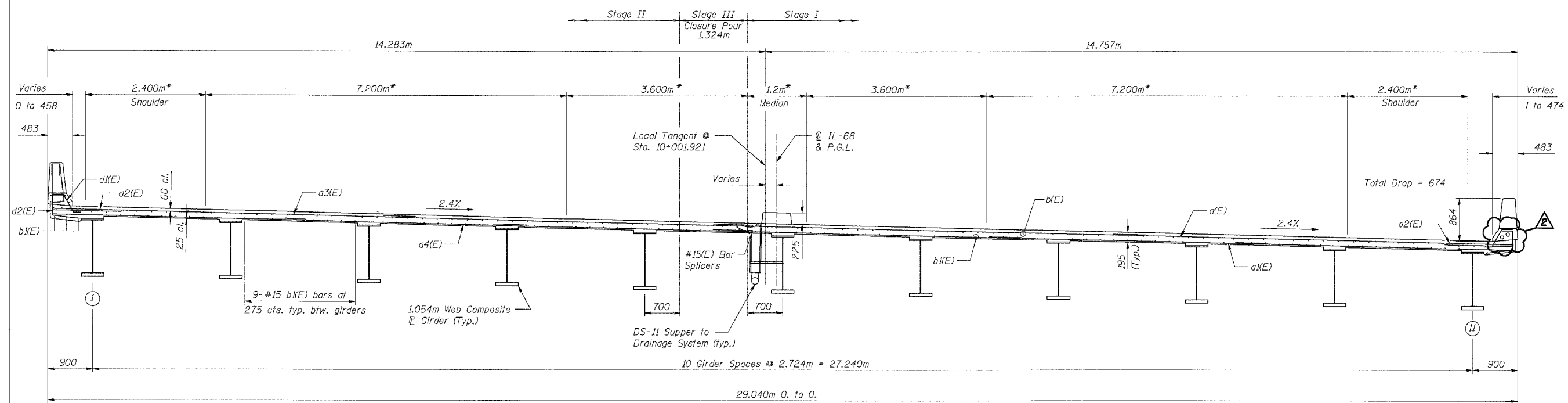
REVISIONS	NAME	DATE

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 200 W. Monroe Street, Suite 1650
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 312.233.0655, FAX 312.593.0661

ILLINOIS DEPARTMENT OF TRANSPORTATION
 IL ROUTE 68 OVER US ROUTE 14
 F.A.P. ROUTE 343 SECTION 70HB-R-1
 COOK COUNTY STATION 10+001.778
 STRUCTURE NO. 016-2861

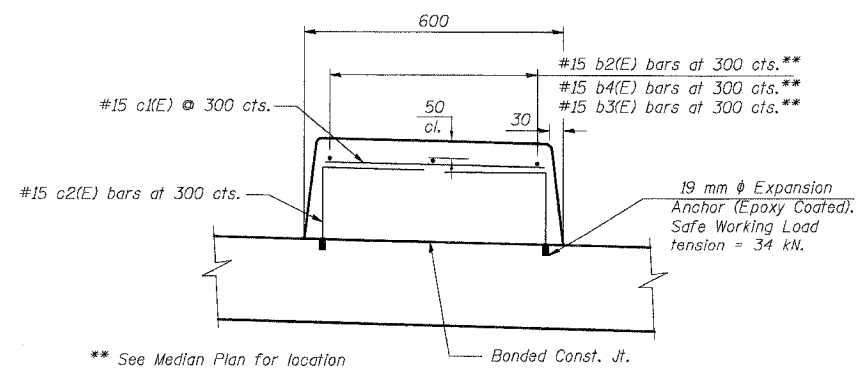
DECK PLAN
 DESIGNED: BTO DRAWN: BTO
 CHECKED: JAN CHECKED: JAN
 DATE: 02/07

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
343	70HB-R-1	COOK	283	196
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT			
CONTRACT NO. 62897				



DECK CROSS SECTION
(Looking East)

* Radial Dimensions



SUPERIMPOSED MEDIAN

NOTES:

1. Reinforcement bars designated (E) shall be epoxy coated.
2. See Sht. S-12 of S-27 for superstructure details.
3. See Sht. S-13 of S-27 for parapet reinforcement and bill of material.

SHT. S-11 OF S-27

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
IL ROUTE 68 OVER US ROUTE 14
F.A.P. ROUTE 343 SECTION 70HB-R-1
COOK COUNTY STATION 10+001.778
STRUCTURE NO. 016-2861

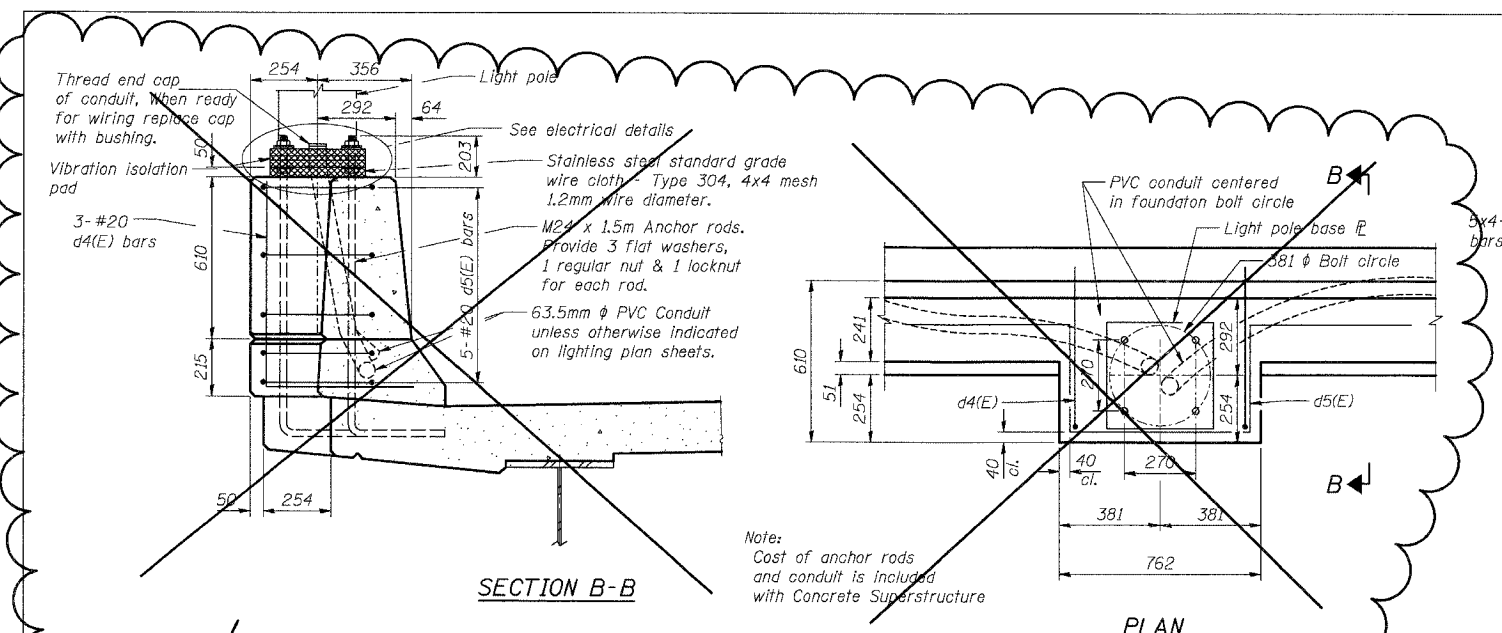
DECK CROSS SECTION

DESIGNED: BTO DRAWN: BTO
DATE: 02/07 CHECKED: JAN CHECKED: JAN

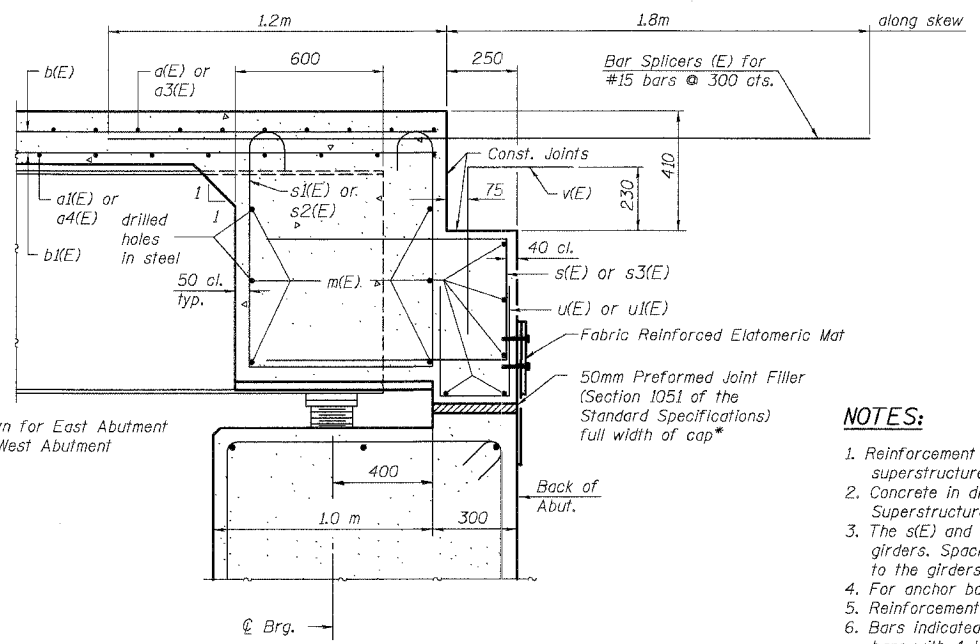
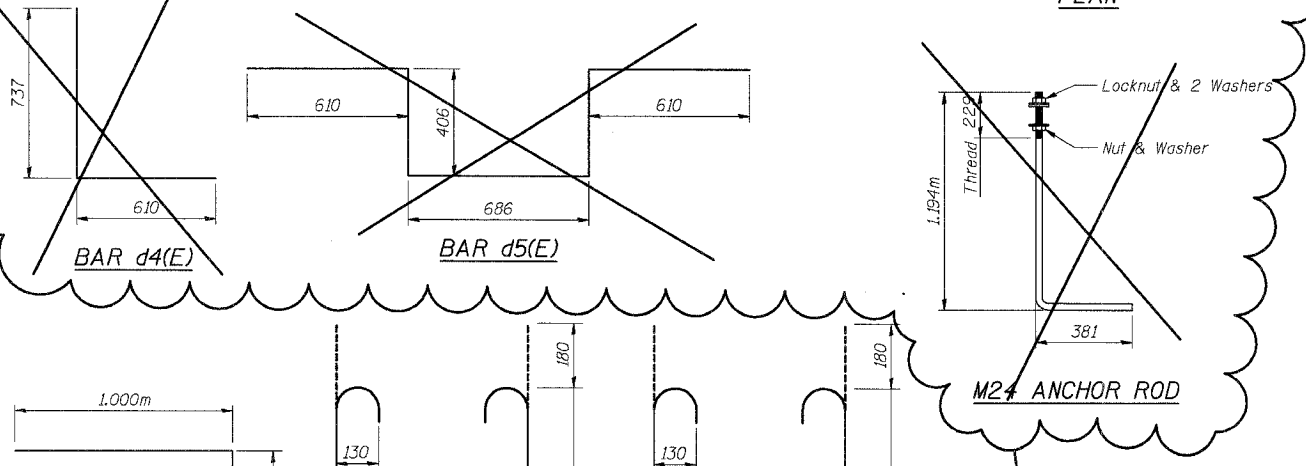
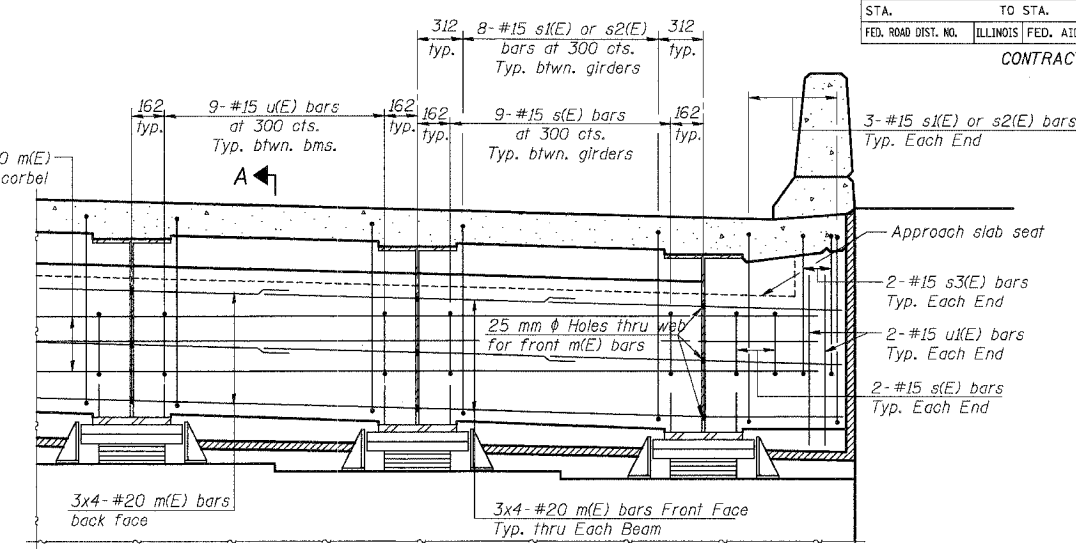
Addendum #2 2/15/07

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Engineers/Architects/Planners/Construction Managers
200 W. Monroe Street, Suite 1650
Chicago, IL 60606-5015
312.251-6055 FAX: 312.253-0661

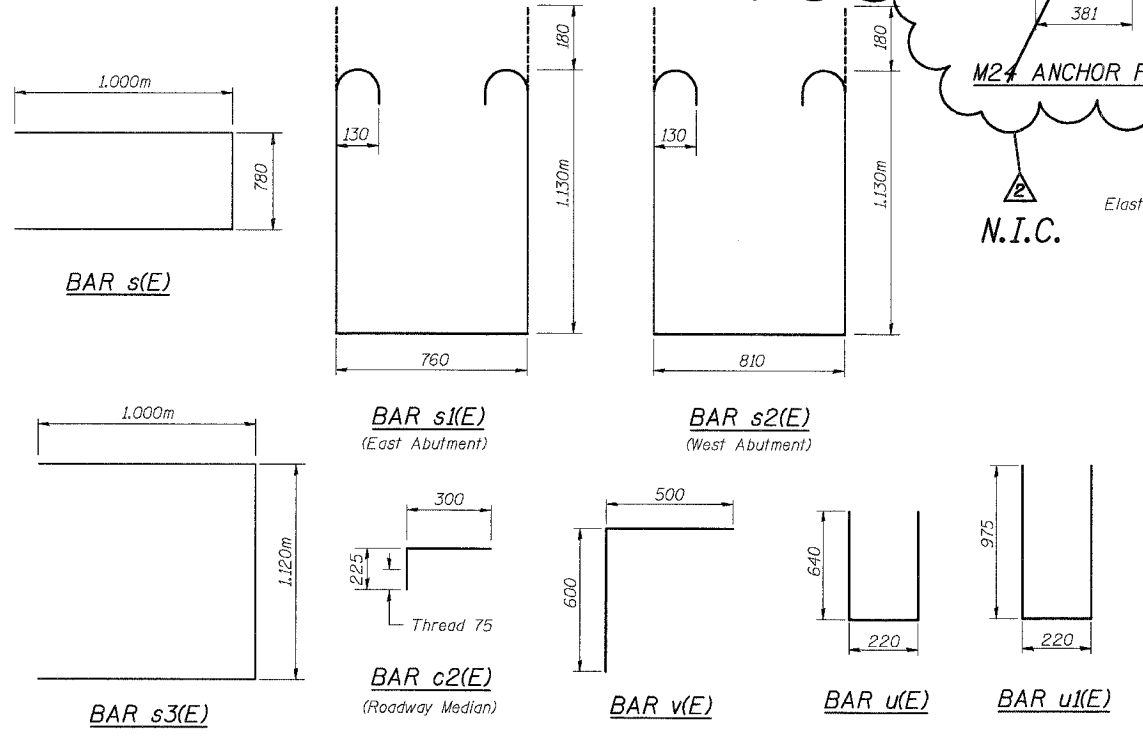
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
343	70HB-R-1	COOK	283	197
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT			
CONTRACT NO. 62897				



Note:
Cost of anchor rods and conduit is included with Concrete Superstructure



- NOTES:**
1. Reinforcement bars in diaphragm are billed with superstructure on sheet S-13 of S-27.
 2. Concrete in diaphragm is included with Concrete Superstructure on sheet of S-13 of S-27.
 3. The s(E) and s1(E) bars shall be placed parallel to the girders. Spacing for these bars shall be at right angles to the girders.
 4. For anchor bolt details see sheet of S-19 of S-27.
 5. Reinforcement bars designated (E) shall be epoxy coated.
 6. Bars indicated thus 5x4 - #20 etc. Indicates 5 lines of bars with 4 lengths per line.



SECTION A-A
Dimensions at right angles to abutment, except as shown.
* Cost included with Concrete Superstructure.

MIN. BAR LAP
#20 bar = 790
SHT. S-12 OF S-27

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
IL ROUTE 68 OVER US ROUTE 14
F.A.P. ROUTE 343 SECTION 70HB-R-1
COOK COUNTY STATION 10+001.778
STRUCTURE NO. 016-2861
SUPERSTRUCTURE DETAILS
DESIGNED: BTO
DRAWN: BTO
DATE: 02/07
CHECKED: JAN
CHECKED: JAN

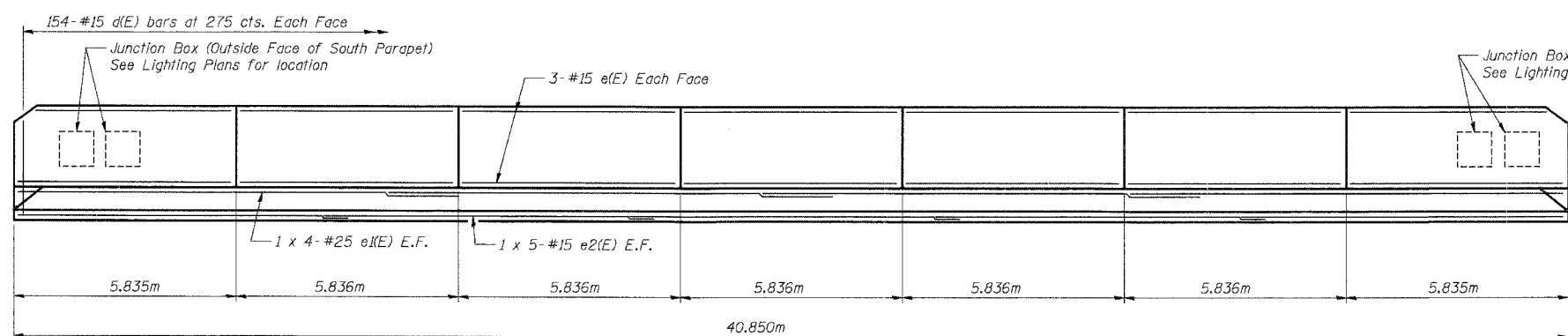
Addendum #2 2/15/07

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Structural/Architectural/Construction Managers
200 W. Monroe Street, Suite 1650
Chicago, IL 60606-5015
312/553-0655, FAX 312/553-0661

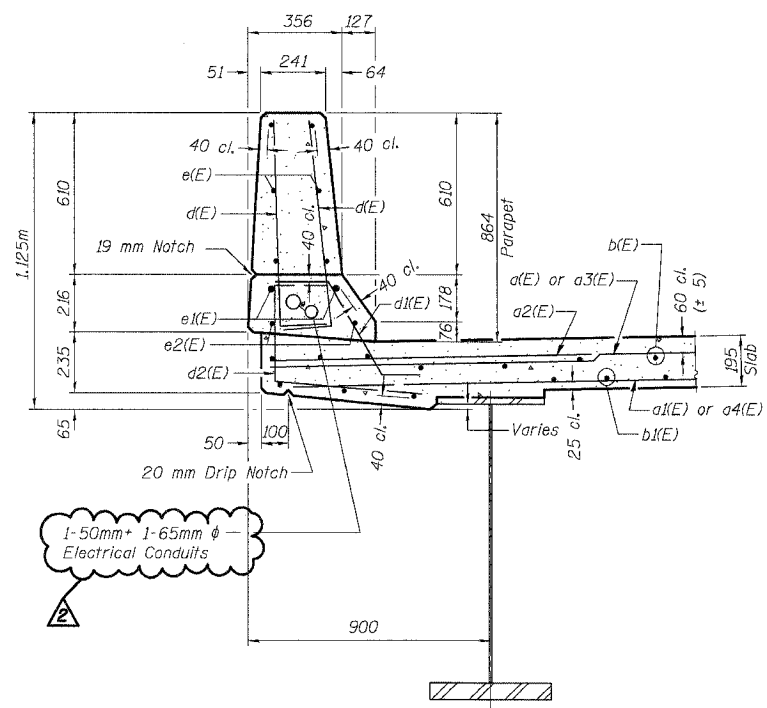
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F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

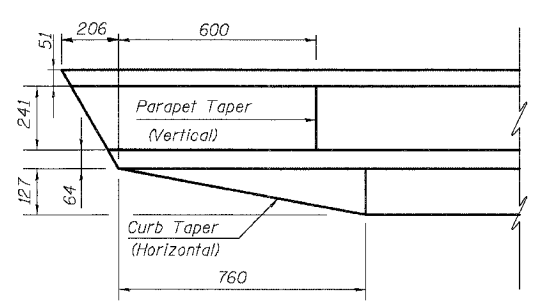
CONTRACT NO. 62897



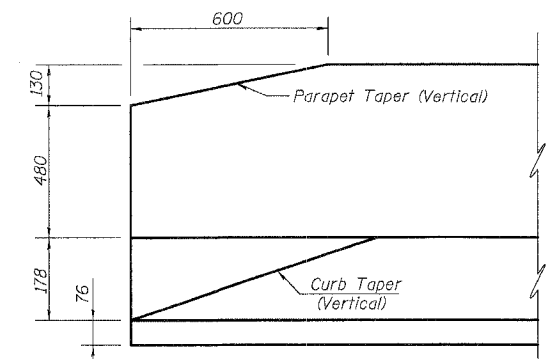
INSIDE ELEVATION OF PARAPET



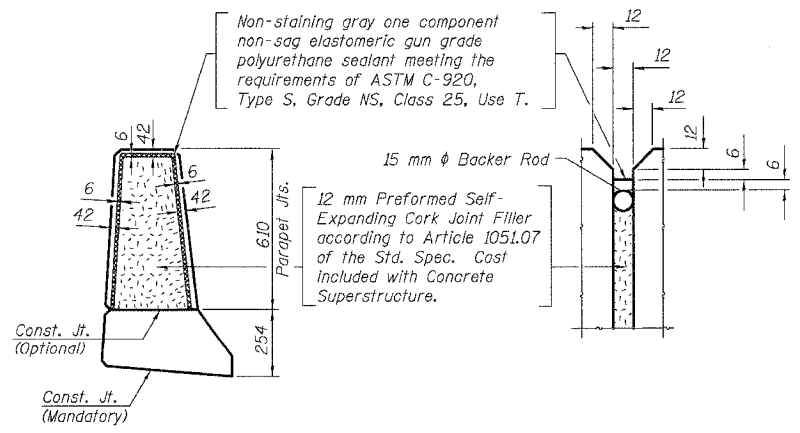
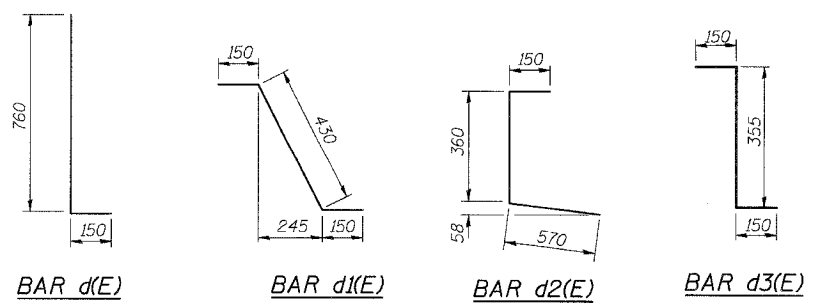
SECTION THRU PARAPET



END PLAN - APPROACH
(West End Shown, East End Similar)



END ELEVATION (Along I.F. Parapet)



PARAPET JOINT DETAILS

SUPERSTRUCTURE
BILL OF MATERIAL

Bar	No.	Size	Length (m)	Shape
a(E)	620	15	7.880	—
a1(E)	636	15	5.470	—
a2(E)	310	20	1.400	—
a3(E)	620	15	7.155	—
a4(E)	636	15	4.990	—
a5(E)	24	15	0.450	—
b(E)	396	15	10.540	—
b1(E)	480	15	8.550	—
b2(E)	9	15	7.770	—
b3(E)	3	15	1.300	—
b4(E)	6	15	10.020	—
c(E)	133	15	0.440	—
c2(E)	266	15	0.525	—
d(E)	616	15	0.910	—
d1(E)	296	15	0.730	—
d2(E)	308	15	1.080	—
d3(E)	12	15	0.655	—
e(E)	84	15	5.760	—
e1(E)	16	25	11.180	—
e2(E)	20	15	8.670	—
m(E)	88	20	8.930	—
s(E)	192	15	2.780	—
s1(E)	86	15	3.380	—
s2(E)	86	15	3.430	—
s3(E)	8	15	3.120	—
u(E)	180	15	1.500	—
u1(E)	8	15	1.950	—
v(E)	190	15	1.100	—
Reinforcement Bars, Epoxy Coated		Kg	47,550	
Concrete Superstructure		Cu M	345.0	

NOTES:

1. Reinforcement bars designated (E) shall be epoxy coated.
2. All Expansion Anchors shall be Epoxy Coated and included in the cost of "Reinforcement Bars, Epoxy Coated".

MIN. BAR LAP

#15 bar = 640
#25 bar = 1.320m

SHT. S-13 OF S-27

REVISIONS	NAME	DATE

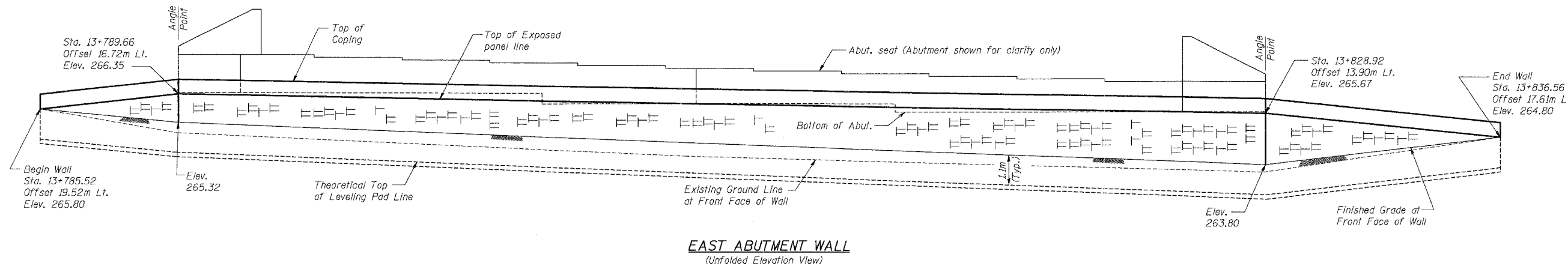
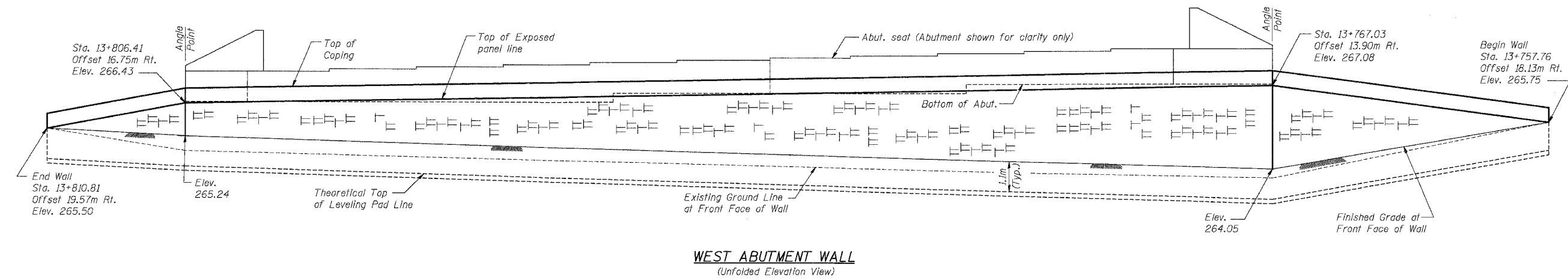
ILLINOIS DEPARTMENT OF TRANSPORTATION
IL ROUTE 68 OVER US ROUTE 14
F.A.P. ROUTE 343 SECTION 70HB-R-1
COOK COUNTY STATION 10+001.778
STRUCTURE NO. 016-2861
PARAPET ELEVATION, DECK DETAILS, & B.O.M.
DESIGNED: BTO
CHECKED: JAN
DRAWN: BTO
CHECKED: JAN
DATE: 02/07

Addendum #2 2/15/07

STV Incorporated
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210 W. Monroe Street, Suite 1600
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312.953.0655 FAX 312.953.0661

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
343	70HB-R-1	COOK	283	209
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

CONTRACT NO. 62897



NOTES:

Stationing and Offsets from \odot US 14.

For Plan of Mechanically Stabilized Earth Retaining Wall see sheet S-01 of S-27.

For Section Through MSE Retaining Wall see sheet S-02 of S-27.

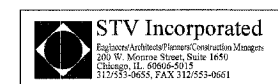
Bearing Capacity of soil below MSE wall is 215 kPa with a corresponding factor of Safety of 2.5.

SHT. S-24 OF S-27

BILL OF MATERIAL

Item	Unit	Total
Mechanically Stabilized Earth Retaining Wall	SQ M	287

Addendum #2 2/15/07



REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
IL ROUTE 68 OVER US ROUTE 14
F.A.P. ROUTE 343 SECTION 70HB-R-1
COOK COUNTY STATION 10+001.778
STRUCTURE NO. 016-2861

MECHANICALLY STABILIZED EARTH RETAINING WALLS

DESIGNED: BTO DRAWN: BTO
CHECKED: JAN CHECKED: JAN
DATE: 02/07