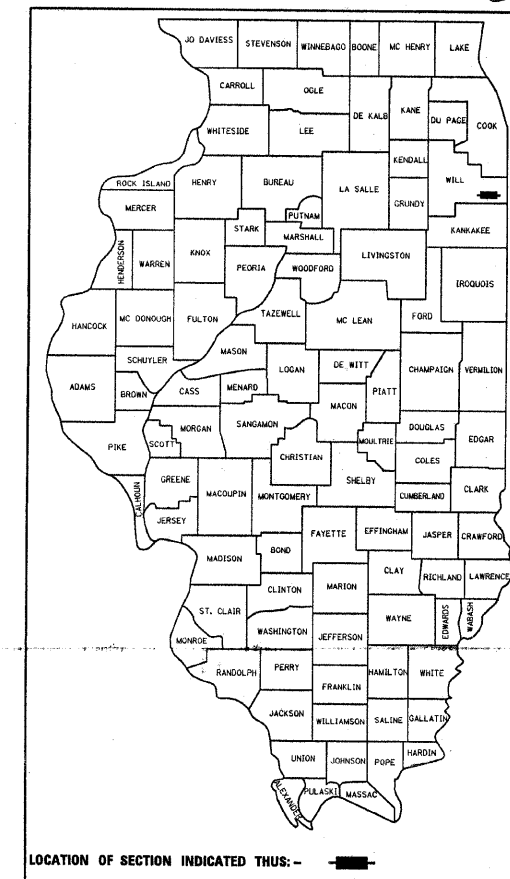


FAP 276	SECTION	COUNTY	TOTAL	SHEET
332/876	2002-113R	WILL	242	1

\* 242 + 4 = 246  
+ 6 = 252

D-91-366-02



LOCATION OF SECTION INDICATED THUS: - [rectangle symbol]

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION  
DIVISION OF HIGHWAYS

**PROPOSED  
HIGHWAY PLANS**

FAP 332 / FAP 876 (IL 394 / IL 1)  
AT IL 1 AND GOODENOW ROAD AND OVER PLUM CREEK  
SECTION 2002-113 R  
INTERSECTION RECONSTRUCTION, RESURFACING (3P), BRIDGE REMOVAL,  
NOISE BARRIER AND BRIDGE SUPERSTRUCTURE  
WILL COUNTY  
C-91-366-02

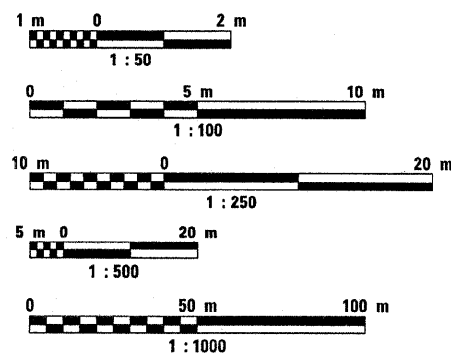
SN: 099-0147, -0183  
PROJECT NO. ACF-ACBHF-000S(688)

FOR INDEX OF SHEETS, SEE SHEET NO. 2

IMPROVEMENT IS LOCATED IN THE  
VILLAGE OF CRETE.

METRIC PROJECT

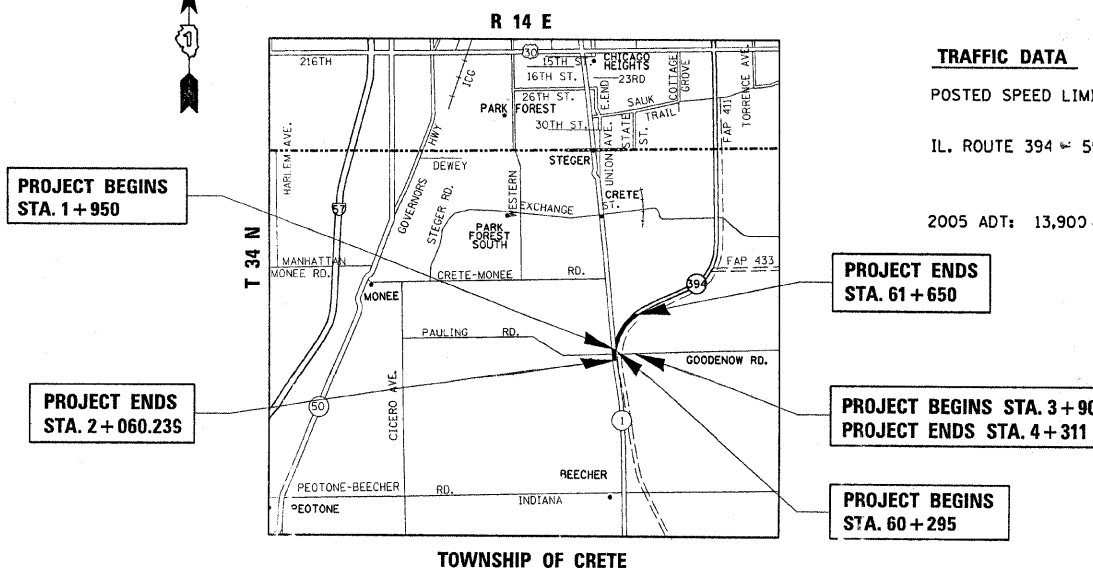
METRIC RATIOS



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

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

CONTRACT NO. 62542



TRAFFIC DATA

POSTED SPEED LIMITS:  
IL. ROUTE 394 = 55 MPH  
2005 ADT: 13,900 VPH (IL 394)

PROJECT BEGINS  
STA. 1 + 950

PROJECT ENDS  
STA. 61 + 650

PROJECT BEGINS STA. 3 + 900  
PROJECT ENDS STA. 4 + 311

PROJECT BEGINS  
STA. 60 + 295

GROSS AND NET LENGTH OF IMPROVEMENT = 1876.24 METER = 1.876 KM

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION  
DIVISION OF HIGHWAYS

SUBMITTED August 20, 2009  
Diana M. O'Keefe DISTRICT ENGINEER

October 2, 2009  
Charles J. Ingorsoll ENGINEER OF DESIGN AND ENVIRONMENT

October 2, 2009  
Christine M. Reed DIRECTOR, DIVISION OF HIGHWAYS

PRINTED BY THE AUTHORITY  
OF THE STATE OF ILLINOIS

Rev. 10-27-09

DISTRICT ONE DESIGN PLAN PREPARATION ENGINEER:  
KEN ENG (847) 705-4247

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
332/876	2002-113R	WILL	242	2
STA.		TO STA.		
FED. ROAD DIST. NO. 1		ILLINOIS FED. AID PROJECT		

**INDEX OF SHEETS:**

SHEET NO.	DESCRIPTION:
1	COVER SHEET
2	INDEX OF SHEETS, STANDARDS, AND GENERAL NOTES
3-11	SUMMARY OF QUANTITIES
12-21	TYPICAL SECTIONS
22-23	SCHEDULE OF QUANTITIES
24-26	EXISTING AND PROPOSED ALIGNMENT & TIES
27	BENCHMARKS AND TEMPORARY BENCHMARKS
28-36	EXISTING AND PROPOSED ROADWAY PLANS
37-45	EXISTING AND PROPOSED PROFILE
46-63	SUGGESTED MAINTENANCE OF TRAFFIC
64-70	EROSION CONTROL PLAN
71-76	WETLAND DETAILS
77-84A	DRAINAGE PLANS
85-94	PLAT OF HIGHWAYS
95-98	LANDSCAPING AND PAVEMENT MARKING PLANS
△ *99-111	TRAFFIC SIGNAL DETAILS
△ *112-135D	LIGHTING DETAILS
136-145	NOISE WALL DETAILS
146-194C	BRIDGE PLANS
195-208	DISTRICT DETAILS
209-242	CROSS SECTIONS

\* Added 101A, 101B.  
Added 119A, 119D.

**STATE STANDARDS:**

000001-05	STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS
001001-02	AREAS OF REINFORCEMENT BARS
280001-04	TEMPORARY EROSION CONTROL SYSTEMS
353001-04	PCC BASE COURSE WITH BIT. CONC. BINDER AND SURFACE COURSES
406201-01	MAILBOX TURNOUT
420001-07	PAVEMENT JOINTS
420106-04	10.8 m (36') JOINTED PCC PAVEMENT
482001-02	HMA SHOULDER ADJACENT TO FLEXIBLE PAVEMENT
482011-03	HMA SHLDR STRIPS/SHLDRS WITH RESURFACE OR WIDEN AND RESURFACE PROJECTS
483001-04	PCC SHOULDER
542101-02	REINFORCED CONC. FLARED END SECTIONS FOR PIPE CULVERTS 375 mm (15") THRU 900 mm (36") AT RIGHT ANGLES WITH ROADWAY
542301-02	PRECAST REINFORCED CONC. FLARED END SECTION
542311-01	GRATING FOR CONC. FLARED END SECTION (FOR 600 mm (24") THRU 1300 mm (54") PIPE)
602001-01	CATCH BASIN, TYPE A
602301-02	INLET, TYPE A
602401-02	MANHOLE, TYPE A
604001-03	FRAMES AND LIDS, TYPE 1
604036-02	GRATE, TYPE B
604086-02	FRAME AND GRATE, TYPE 23
606001-04	CONCRETE CURB TYPE B AND COMBINATION CONCRETE CURB AND CUTTER
606101-01	TYPE A GUTTER (INLET, OUTLET, AND ENTRANCE)
606306-03	CORRUGATED PC CONCRETE MEDIANS
630001-08	STEEL PLATE BEAM GUARDRAIL
630201-06	PCC/HMA STABILIZATION AT STEEL PLATE BEAM GUARDRAIL
630301-05	SHOULDER WIDENDING FOR TYPE 1, (SPECIAL) GUARDRAIL TERMINALS
631011-05	TRAFFIC BARRIER TERMINAL, TYPE 2
631031-07	TRAFFIC BARRIER TERMINAL, TYPE 6
635001-01	DELINEATORS
635006-03	REFLECTOR AND TERMINAL MARKER PLACEMENT
635011-02	REFLECTOR MARKER AND MOUNTING DETAILS
642001-01	SHOULDER RUMBLE STRIPS
666001-01	RIGHT OF WAY MARKERS
667001-01	DRAINAGE MARKERS
667101-01	PERMANENT SURVEY MARKERS
701001-02	OFF-ROAD OPERATIONS, 2L, 2W, 4.5 m (15') MIN. AWAY, FOR SPEEDS >= 45 MPH
701006-03	OFF-ROAD OPERATIONS 2L, 2W, 4.5 m (15') TO PAVEMENT EDGE FOR SPEEDS >= 45 MPH
701011-02	OFF-ROAD MOVING OPERATIONS 2L, 2W, DAY ONLY FOR SPEEDS >= 45 MPH
701201-03	LANE CLOSURE, 2L, 2W, DAY ONLY ON-ROAD TO 600 mm (24") OFF-ROAD FOR SPEEDS >= 45 MPH
701301-03	LANE CLOSURE, 2L, 2W, SHORT TIME OPERATIONS
701306-02	LANE CLOSURE, 2L, 2W, SLOW MOVING OPERATIONS - DAY ONLY FOR SPEEDS >= 45 MPH
701326-03	LANE CLOSURE, 2L, 2W, PAVEMENT WIDENIGN FOR SPEEDS >= 45 MPH
701416-06	LANE CLOSURE, MULTILANE DIVIDED WITH CROSSOVER AND BARRIER FOR SPEEDS >= 45 MPH
701901-01	TRAFFIC CONTROL DEVICES
780001-02	TYPICAL PAVEMENT MARKINGS
781001-03	TYPICAL APPLICATIONS RAISED REFLECTIVE PAVEMENT MARKERS
884001-01	DETECTOR LOOP INSTALLATIONS
884002-01	TYPICAL LAYOUT FOR DETECTION LOOPS

**GENERAL NOTES:**

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

THE CONTRACTOR SHALL COORDINATE CONSTRUCTION ACTIVITIES WITH UTILITY COMPANIES, AND THE TOWNSHIP OF CRETE.

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

WHEN MILLED PAVEMENT IS OPEN TO TRAFFIC THE MAXIMUM GRADE DIFFERENTIAL BETWEEN PASSES OF THE MILLING MACHINE SHALL NOT EXCEED 38 MM WHERE THE SPEED LIMIT IS 70 KM OR LESS, AND 25 MM WHERE THE SPEED LIMIT IS GREATER THAN 70 KM. WITH WRITTEN APPROVAL FROM THE RESIDENT ENGINEER, A MAXIMUM GRADE DIFFERENTIAL OF 75 MM MAY BE ALLOWED IF THE EDGE OF THE MILLING IS SLOPED A MINIMUM 1:3 (V:H)

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

CONTACT MR. CORA MAHIS AREA TRAFFIC FIELD ENGINEER AT (815)485-6475 TWO WEEKS PRIOR TO INSTALLATION OF FINAL PAVEMENT MARKINGS

3 METER (10 FEET) TRANSITIONS SHALL BE USED TO MATCH PROPOSED CURB AND GUTTER AND MEDIAN ITEMS OF WORK TO EXISTING CURB & GUTTER AND MEDIANS IN THE FIELD, UNLESS OTHERWISE SHOWN. THE TRANSITIONS SHALL BE PAID FOR AT THE CONTRACT UNIT PRICE FOR THE PROPOSED ITEMS OF WORK SPECIFIED.

ALL STORM SEWER CONNECTIONS WITH PIPES 675 MM (27 INCHES) DIAMETER AND SMALLER SHALL BE MADE WITH PRECAST "TEE" OR "WYE" PIPES. FOR PROPOSED STORM SEWER PIPES LARGER THAN 675 MM (27 INCHES) DIAMETER, OPENINGS OF THE SPECIFIED DIAMETER SHALL BE MADE IN THE PIPE AT THE TIME IT IS MANUFACTURED. PRECAST "TEE" AND "WYE" PIPE CONNECTIONS FOR PROPOSED STORM SEWER WILL NOT BE PAID FOR SEPARATELY BUT WILL BE INCLUDED IN THE COST FOR THE STORM SEWERS.

THE PROJECT REQUIRES A 404 PERMIT. ALL TERMS AND CONDITIONS OF THE ARMY CORP OF ENGINEERS' REGIONAL PERMIT SHALL APPLY

**COMMITMENTS**

- A "NO INTRUSION" FENCE WILL BE PLACED ADJACENT TO THE PLUM GROVE NATURE PRESERVE BUFFER ALONG IL RTE. 394 AND GOODENOW RD. IMPACTS TO THE NATURE PRESERVE WILL BE AVOIDED AND AN EROSION CONTROL PLAN WILL BE PREPARED.
- THE NOISE WALL WILL BE CONSTRUCTED FROM THE ROADWAY SIDE.

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

F.A.P. 332/876 IL 394/L 1  
INDEX OF SHEET, LIST OF STATE STANDARDS,  
AND GENERAL NOTES

DATE: 8/27/2009  
DRAWN BY: RK  
CHECKED BY: CF

Rev. 10-27-09

# SUMMARY OF QUANTITIES

SECTION	COUNTY	TOTAL SHEETS	SHEET NO
2002-113R	WILL	242	3
STA. TO STA.		EXISTING CONDITIONS:	

CODE NO	ITEM	UNIT	QUANTITIES	ACF		CONSTRUCTION TYPE CODE										
				ACF ROADWAY 1000-2A	ACBHF BRIDGE X071-2A	TRAFFIC SYGNAL GOODENOW RD Y031-1F	TRAFFIC SIGNAL IL-394 Y031-1F	TRAFFIC SIGNAL INTERCONNECT Y031-1F	CRETE TOWNSHIP FIRE DEPT Y031-3D	100% STATE LIGHTING Y030-1E	ACBHF NOISE WALL 80% FED/20% STATE 1000-2A					
MX281003	STONE RIPRAP, CLASS C3	SQ M	87	87												
M2800305	TEMPORARY DITCH CHECKS	METER	11		11											
28000500	INLET AND PIPE PROTECTION	EACH	1		1											
28000510	INLET FILTERS	EACH	3	3												
M4402060	APPROACH SLAB REMOVAL	SQ M	444.0		444.0											
50100100	REMOVAL OF EXISTING STRUCTURES	EACH	1	1												
50104900	REMOVAL OF EXISTING SUB-STRUCTURES	EACH	2	2												
50101600	REMOVAL OF EXISTING SUPERSTRUCTURES	L SUM	1		1											
50104720	REMOVAL OF EXISTING CONCRETE DECK	EACH	1		1											
50300100	FLOOR DRAINS	EACH	11		11											
50500505	STUD SHEAR CONNECTORS	EACH	5808		5808											
50500715	JACK AND REMOVE EXISTING BEARINGS	EACH	12		12											
50501005	JACK AND REPOSITION BEARINGS	EACH	12		12											
50800515	BAR SPLICERS	EACH	136		136											
51500100	NAME PLATES	EACH	2		2											
52100010	ELASTOMERIC BEARING ASSEMBLY, TYPE I	EACH	19		19											
52100020	ELASTOMERIC BEARING ASSEMBLY, TYPE II	EACH	7		7											
* 63100045	TRAFFIC BARRIER TERMINAL, TYPE 2	EACH	7	2	5											
* 63100085	TRAFFIC BARRIER TERMINAL, TYPE 6	EACH	10	5	5											
* 63100167	TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT	EACH	5	5												
67000400	ENGINEER'S FIELD OFFICE, TYPE A	CAL MO	12	12												
67100100	MOBILIZATION	L SUM	1	0.5	0.5											
70101800	TRAFFIC CONTROL AND PROTECTION, (SPECIAL)	L SUM	1	0.5	0.5											
* 78100100	RAISED REFLECTIVE PAVEMENT MARKER	EACH	510	510												
* 78201000	TERMINAL MARKER - DIRECT APPLIED	EACH	5	5												
78300200	RAISED REFLECTIVE PAVEMENT MARKER REMOVAL	EACH	410	410												
* 80400100	ELECTRIC SERVICE INSTALLATION	EACH	1							1						
* 80400200	ELECTRIC UTILITY SERVICE CONNECTION	L SUM	1							1						
* 81400100	HANDHOLE	EACH	3				3									
* 81400200	HEAVY-DUTY HANDHOLE	EACH	22			9	8	5								
* 81400300	DOUBLE HANDHOLE	EACH	2			1	1									
* 82102310	LUMINAIRE, SODIUM VAPOR, HORIZONTAL MOUNT, 310 WATT	EACH	25							25						
* 82102400	LUMINAIRE, SODIUM VAPOR, HORIZONTAL MOUNT, 400 WATT	EACH	12							12						
* 84100110	REMOVAL OF TEMPORARY LIGHTING UNITS	EACH	14							14						
* 84200500	REMOVAL OF EXISTING LIGHTING UNIT, SALVAGE	EACH	4							4						
* 84400105	RELOCATE EXISTING LIGHTING UNIT	EACH	14							14						

\*Specialty Items

Rev. 10-27-09

# SUMMARY OF QUANTITIES

F&P NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
332/474	2002-113R	WILL	242	4
STA.		TO STA.		
EXISTING CONDITIONS:				

SUMMARY OF QUANTITIES			URBAN 80% FED. 20% STATE TOTAL	ACF ROADWAY I000-2A	ACBHF BRIDGE X071-2A	TRAFFIC SYGNAL GOODENOW RD Y031-1F	TRAFFIC SIGNAL IL-394 Y031-1F	TRAFFIC SIGNAL INTERCONNECT Y031-1F	CRETE TOWNSHIP FIRE DEPT Y031-2D	100% STATE LIGHTING Y030-1E	ACBHF NOISE WALL 80% FED./20% STATE I000-2A				
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									
86000100	MASTER CONTROLLER	EACH	1					1							
86400100	TRANSCEIVER - FIBER OPTIC	EACH	2			1	1								
88000470	SIGNAL HEAD, 2-FACE, 5-SECTION, BRACKET MOUNTED	EACH	1				1								
88000490	SIGNAL HEAD, 2-FACE, 1-3 SECTION, 1-5 SECTION, BRACKET MOUNTED	EACH	3			2	1								
88030020	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST-ARM MOUNTED	EACH	23			12	11								
88030110	SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST-ARM MOUNTED	EACH	5			2	3								
88200210	TRAFFIC SIGNAL BACKPLATE, LOUVERED, ALUMINUM	EACH	28			14	14								
88500100	INDUCTIVE LOOP DETECTOR	EACH	27			11	16								
88700200	LIGHT DETECTOR	EACH	6						6						
88700300	LIGHT DETECTOR AMPLIFIER	EACH	2						2						
89000100	TEMPORARY TRAFFIC SIGNAL INSTALLATION	EACH	2			1	1								
89502375	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1			1									
A2006514	TREE, QUERCUS BICOLOR (SWAMP WHITE OAK), 1-3/4" CALIPER, BALLED AND BURLAPPED	EACH	11		11										
A2006614	TREE, QUERCUS IMBRICARIA (SHINGLE OAK), 1-3/4" CALIPER, BALLED AND BURLAPPED	EACH	10		10										
A2006714	TREE, QUERCUS MACROCARPA (BUR OAK), 1-3/4" CALIPER, BALLED AND BURLAPPED	EACH	26		26										
B2001616	TREE, CRATAEGUS CRUSGALLI INERMIS (THORN LESS COCKSPUR HAWTHORN), 2" CALIPER, TREE FORM, BALLED AND BURLAPPED	EACH	19		19										
C2006024	SHRUB, RHUS TYPHINA (STAGHORN SUMAC), 2' HEIGHT, CONTAINER	EACH	610		610										
D2002172	EVERGREEN, PICEA PUNGENS (COLORADO SPRUCE), 6' HEIGHT, BALLED AND BURLAPPED	EACH	13		13										
E2020061	VINE-PARTHENOCISSUS QUINQUEFOLIA (VIRGINIA CREEPER), 1-GALLON POT	EACH	984		984										
K1005465	SELECTIVE MOWING STAKES	EACH	7		7										
M2010110	TREE REMOVAL (6 TO 15 UNITS DIAMETER)	UNIT	400		400										
M2010210	TREE REMOVAL (OVER 15 UNITS DIAMETER)	UNIT	42		42										
M2011000	TEMPORARY FENCE	METER	150		150										
M2011300	TREE PRUNING (25 TO 250 MM DIAMETER)	EACH	10		10										
M2011350	TREE PRUNING (OVER 250MM DIAMETER)	EACH	10		10										
M2020010	EARTH EXCAVATION	CU M	21348.5		21348.5										

\*Specialty Items

Rev. 10-27-09

PLOT DATE: 9/25/2009

9/25/2009 10:52:00 AM

# SUMMARY OF QUANTITIES

F#P ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO
332/876	2002-113R	WILL	242	5
STA.	TO STA.		EXISTING CONDITIONS:	

SUMMARY OF QUANTITIES			URBAN 80% FED. 20% STATE TOTAL	ACF ROADWAY 1000-2A	ACB/F BRIDGE X071-2A	TRAFFIC SYGNAL GOODENOW RD Y031-1F	TRAFFIC SIGNAL IL-394 Y031-1F	TRAFFIC SIGNAL INTERCONNECT Y031-1F	CRETE TOWNSHIP FIRE DEPT Y031-3D	CONSTRUCTION TYPE CODE 100% STATE LIGHTING Y030-1E	ACB/F NOISE WALL 80% FED./20% STATE 1000-2A				
CODE NO	ITEM	UNIT	QUANTITIES												
M2021200	REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL	CU M	7491	7491											
<del>M2040800</del>	<del>FURNISHED EXCAVATION</del>	<del>CU M</del>	<del>2866</del>	<del>2861</del>	<del>15</del>										
M2070400	POROUS GRANULAR EMBANKMENT, SPECIAL	CU M	225		225										
M2080150	TRENCH BACKFILL	CU M	1500	1500											
* M2113100	TOPSOIL FURNISH AND PLACE, 100MM	SQ M	10877	10877											
* M2113300	TOPSOIL FURNISH AND PLACE, 300MM	SQ M	2037	2037											
* M2114100	COMPOST FURNISH AND PLACE, 100MM	SQ M	12877	12877											
M2140100	GRADING AND SHAPING DITCHES	METER	355	355											
* M2500210	SEEDING, CLASS 2A	HA	1.3	1.3											
* M2500310	SEEDING, CLASS 4	HA	1.7	1.3	0.4										
* M2500400	NITROGEN FERTILIZER NUTRIENT	KG	209	167	42										
* M2500500	PHOSPHORUS FERTILIZER NUTRIENT	KG	142	100	42										
* M2500600	POTASSIUM FERTILIZER NUTRIENT	KG	95	53	42										
* M2503310	INTERSEEDING, CLASS 4	HA	1	1											
* M2510630	EROSION CONTROL BLANKET	SQ M	27221.0	26300	921.0										
* M2520110	SODDING, SALT TOLERANT	SQ M	800	800											
M2800255	TEMPORARY EROSION CONTROL SEEDING	HA	0.44	0.04	0.4										
M2800400	PERIMETER EROSION BARRIER	METER	3192	2482	710										
M2810105	STONE RIPRAP, CLASS A3	SQ M	210	210											
M2810107	STONE RIPRAP, CLASS A4	SQ M	1021	100	921										
<del>M2820200</del>	<del>FILTER FABRIC FOR USE WITH RIPRAP</del>	<del>SQ M</del>	<del>117</del>	<del>117</del>											
M2820200	FILTER FABRIC	SQ M	1131	210	921.0										
M3111100	SUB-BASE GRANULAR MATERIAL, TYPE B 100MM	SQ M	4040	4040											
M3112010	SUB-BASE GRANULAR MATERIAL, TYPE C	M TON	2015	2015											
M3112300	SUB-BASE GRANULAR MATERIAL, TYPE C 300MM	SQ M	550	550											
M3120100	STABILIZED SUB-BASE 100MM	SQ M	1759	1759											
M3530245	PORTLAND CEMENT CONCRETE BASE COURSE 245MM	SQ M	1564	1564											
M3550450	HOT-MIX ASPHALT BASE COURSE, 150MM	SQ M	417	417											
M3550500	HOT-MIX ASPHALT BASE COURSE, 200MM	SQ M	1013	1013											
M4060200	BITUMINOUS MATERIALS (PRIME COAT)	M TON	9	8	1										
M4060300	AGGREGATE (PRIME COAT)	M TON	36	36											
M4060400	MIXTURE FOR CRACKS, JOINTS, AND FLANGWAYS	M TON	10	9	1										
M4060895	CONSTRUCTING TEST STRIP	EACH	3	3											
M4060982	HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT	SQ M	352	84	268										
M4062135	LEVELING BINDER (MACHINE METHOD), N70	M TON	3066	2670	396										
M4063240	POLYMERIZED HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N90	M TON	10420	10420											

\* 5 Specialty Items

Rev. 10-27-09

# SUMMARY OF QUANTITIES

PAP NO./REV.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
332/876	2002-113R	WILL	242	6
STA.		TO STA.		
EXISTING CONDITIONS:				

SUMMARY OF QUANTITIES			URBAN 80% FED. 20% STATE TOTAL	ACF			100% CRETE				CONSTRUCTION TYPE CODE				
CODE NO	ITEM	UNIT		ACF ROADWAY I000-2A	AC BHF BRIDGE X071-2A	TRAFFIC SYGNAL GOODENOW RD Y031-1F	TRAFFIC SIGNAL IL-394 Y031-1F	TRAFFIC SIGNAL INTERCONNECT Y031-1F	CRETE TOWNSHIP FIRE DEPT Y031-3D	100% STATE LIGHTING Y030-1E	AC BHF NOISE WALL 80% FED. / 20% STATE I000-2A				
M4063310	HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N50	M TON	60	60											
M4063335	HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N50	M TON	521	521											
M4063340	HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N70	M TON	1437	1187	250										
M4063595	POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, MIX "F", N90	M TON	3900	3900											
<del>M4202245</del>	<del>PORTLAND-CEMENT CONCRETE PAVEMENT 240MM (JOINTED)</del>	<del>SQ M</del>	<del>350</del>	<del>350</del>											
M4400725	HOT-MIX ASPHALT SURFACE REMOVAL, 25MM	SQ M	7860	7860											
M4400740	HOT-MIX ASPHALT SURFACE REMOVAL, 40MM	SQ M	6700	6700											
M4400750	HOT-MIX ASPHALT SURFACE REMOVAL, 50MM	SQ M	3330	3330											
M4400760	HOT-MIX ASPHALT SURFACE REMOVAL, 60MM	SQ M	6745	5084	1661										
M4400765	HOT-MIX ASPHALT SURFACE REMOVAL, 65MM	SQ M	21150	21150											
M4401165	HOT-MIX ASPHALT REMOVAL OVER PATCHES, 65MM	SQ M	851	851											
M4402000	PAVEMENT REMOVAL	SQ M	4930	4930											
M4402010	DRIVEWAY PAVEMENT REMOVAL	SQ M	320	320											
M4402530	PAVED SHOULDER REMOVAL	SQ M	696	696											
M4428065	CLASS D PATCHES, TYPE I, 425MM	SQ M	80	80											
M4428085	CLASS D PATCHES, TYPE I, 525MM	SQ M	55	55											
M4428220	CLASS D PATCHES, TYPE II, 200MM	SQ M	540	540											
M4428265	CLASS D PATCHES, TYPE II, 425MM	SQ M	205	205											
M4428285	CLASS D PATCHES, TYPE II, 525MM	SQ M	850	850											
M4428385	CLASS D PATCHES, TYPE III, 525MM	SQ M	180	180											
M4428465	CLASS D PATCHES, TYPE IV, 425MM	SQ M	50	50											
M4430020	STRIP REFLECTIVE CRACK CONTROL TREATMENT	METER	468	468											
M4812000	AGGREGATE SHOULDERS, TYPE B	M TON	141	141											
M4816000	AGGREGATE WEDGE SHOULDER, TYPE B	M TON	657	262	395										
M4820550	HOT-MIX ASPHALT SHOULDERS, 150MM	SQ M	720	720											
M4820600	HOT-MIX ASPHALT SHOULDERS, 200MM	SQ M	712	712											
M4820655	HOT-MIX ASPHALT SHOULDERS, 255MM	SQ M	5380	5380											
M5010240	CONCRETE REMOVAL	CU M	11.5		11.5										
M5010400	BRIDGE RAIL REMOVAL	METER	76.5		76.5										
M5010465	SLOPE WALL REMOVAL	SQ M	1059		1059										
M5010522	PIPE CULVERT REMOVAL	METER	335	335											
M5020100	STRUCTURE EXCAVATION	CU M	147.0		147.0										
M5030280	CONCRETE ENCASEMENT	CU M	3.21		3.21										
M5030350	CONCRETE STRUCTURES	CU M	81.0		81.0										
M5030360	CONCRETE SUPERSTRUCTURE	CU M	449.0		449.0										
M5030390	BRIDGE DECK GROOVING	SQ M	868.0		868.0										
M5030450	PROTECTIVE COAT	SQ M	1039.0		1039.0										

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# SUMMARY OF QUANTITIES

FAP NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
332/076	2002-113R	WILL	242	7
STA.	TO STA.		EXISTING CONDITIONS:	

SUMMARY OF QUANTITIES			URBAN 80% FED. 20% STATE TOTAL	ACF ROADWAY I000-2A	ACBHF BRIDGE X071-2A	TRAFFIC SYGNAL GOODENOW RD Y031-1F	TRAFFIC SIGNAL IL-394 Y031-1F	TRAFFIC SIGNAL INTERCONNECT Y031-1F	CONSTRUCTION TYPE CODE CRETE TOWNSHIP FIRE DEPT Y031-30	100% STATE LIGHTING Y030-1E	ACBHF NOISE WALL 80% FED./20% STATE I000-2A				
CODE NO	ITEM	UNIT	QUANTITIES												
M5050105	FURNISHING AND ERECTING STRUCTURAL STEEL	L SUM	1.0		1.0										
M5050410	STRUCTURAL STEEL REMOVAL	KG	6505.0		6505.0										
M5080205	REINFORCEMENT BARS, EPOXY COATED	KG	69567.0		69567.0										
M5110200	SLOPE WALL 150 MM	SQ M	942.0		942.0										
M5120140	FURNISHING STEEL PILES HP250X62	METER	111.3		111.3										
M5120335	DRIVING PILES	METER	111.3		111.3										
M5120440	TEST PILE STEEL HP250X62	EACH	2		2										
M5200225	PREFORMED JOINT STRIP SEAL	METER	27		27										
M5210022	ANCHOR BOLTS, M24	EACH	56		56										
MX033761	ANCHOR BOLTS, M30	EACH	24		24										
M542E020	END SECTIONS 450MM	EACH	1	1											
M542E116	PRECAST REINFORCED CONCRETE FLARED END SECTIONS 375MM	EACH	3	3											
M542E128	PRECAST REINFORCED CONCRETE FLARED END SECTIONS 600MM	EACH	2	2											
M542E136	PRECAST REINFORCED CONCRETE FLARED END SECTIONS 750MM	EACH	2	2											
M542G020	GRATING FOR CONCRETE FLARED END SECTION 375MM	EACH	3	3											
M542G025	GRATING FOR CONCRETE FLARED END SECTION 450MM	EACH	1	1											
M542G035	GRATING FOR CONCRETE FLARED END SECTION 600MM	EACH	2	2											
M542G045	GRATING FOR CONCRETE FLARED END SECTION 750MM	EACH	3	3											
M5500030	STORM SEWERS, CLASS A, TYPE 1 300MM	METER	150	150											
M5500040	STORM SEWERS, CLASS A, TYPE 1 375MM	METER	131	131											
M5500050	STORM SEWERS, CLASS A, TYPE 1 450MM	METER	341	341											
M5500065	STORM SEWERS, CLASS A, TYPE 1 600MM	METER	204	204											
M5500075	STORM SEWERS, CLASS A, TYPE 1 750MM	METER	97	97											
M5910100	GEOCOMPOSITE WALL DRAIN	SQ M	94.0		94.0										
M6011100	PIPE UNDERDRAINS FOR STRUCTURES 100MM	METER	74.0		74.0										
M6020140	CATCH BASINS, TYPE A, 1.2M DIAMETER, TYPE 8 GRATE	EACH	2	2											
M6020180	CATCH BASINS, TYPE A, 1.2M DIAMETER, TYPE 23 FRAME AND GRATE	EACH	8	8											
M6020480	CATCH BASINS, TYPE A, 1.5M DIAMETER, TYPE 23 FRAME AND GRATE	EACH	4	4											
M6021610	MANHOLES, TYPE A, 1.5M DIAMETER, TYPE 1 FRAME, CLOSED LID	EACH	1	1											
M6060010	CLASS SI CONCRETE (OUTLET)	CU M	11.6		11.6										
M6060500	COMBINATION CONCRETE CURB AND GUTTER, TYPE B-15.30	METER	255		255										
M6061930	COMBINATION CONCRETE CURB AND GUTTER, TYPE M-10.30	METER	804		804										
M6320030	GUARDRAIL REMOVAL	METER	337		337										
M6420015	SHOULDER RUMBLE STRIP	METER	2245		2245										
M7030100	SHORT-TERM PAVEMENT MARKING	METER	750		750										

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# SUMMARY OF QUANTITIES

F&P NO/DATE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO
332/876	2002-113R	WILL	242	8
STA.		TO STA.		
EXISTING CONDITIONS:				

SUMMARY OF QUANTITIES			URBAN 80% FED. 20% STATE TOTAL	ACF			100% CRETE									
CODE NO	ITEM	UNIT	QUANTITIES	ACF ROADWAY I000-2A	ACBHF BRIDGE X071-2A	TRAFFIC SYGNAL GOODENOW RD Y031-1F	TRAFFIC SIGNAL IL-394 Y031-1F	TRAFFIC SIGNAL INTERCONNECT Y031-1F	CRETE TOWNSHIP FIRE DEPT Y031-3D	100% STATE LIGHTING Y030-1E	ACBHF NOISE WALL 80% FED./20% STATE I000-2A					
M7030210	TEMPORARY PAVEMENT MARKING - LETTERS AND SYMBOLS	SQ M	74	66	8											
M7030220	TEMPORARY PAVEMENT MARKING - LINE 100MM	METER	8388	8025	363											
M7030240	TEMPORARY PAVEMENT MARKING - LINE 150MM	METER	773	290	483											
M7030260	TEMPORARY PAVEMENT MARKING - LINE 300MM	METER	880	880												
M7030280	TEMPORARY PAVEMENT MARKING - LINE 600MM	METER	130	130												
M7030520	PAVEMENT MARKING TAPE, TYPE III 100MM	METER	15075	15075												
M7030580	PAVEMENT MARKING TAPE, TYPE III 600MM	METER	50	50												
M7031000	WORK ZONE PAVEMENT MARKING REMOVAL	SQ M	1425	1425												
M7040100	TEMPORARY CONCRETE BARRIER	METER	120		120											
M7040200	RELOCATE TEMPORARY CONCRETE BARRIER	METER	120		120											
M7200100	SIGN PANEL - TYPE 1	SQ M	1.68			1.68										
M7200200	SIGN PANEL - TYPE 2	SQ M	10.44			2.78	7.66									
M7800100	THERMOPLASTIC PAVEMENT MARKING - LETTERS AND SYMBOLS	SQ M	78	70	8											
M7800105	THERMOPLASTIC PAVEMENT MARKING - LINE 100MM	METER	4063	3700	363											
M7800115	THERMOPLASTIC PAVEMENT MARKING - LINE 150MM	METER	1283	800	483											
M7800125	THERMOPLASTIC PAVEMENT MARKING - LINE 300MM	METER	875	875												
M7800140	THERMOPLASTIC PAVEMENT MARKING - LINE 600MM	METER	115	115												
M7800405	PREFORMED PLASTIC PAVEMENT MARKING, TYPE B - LINE 100MM	METER	2925	2925												
M7800415	PREFORMED PLASTIC PAVEMENT MARKING, TYPE B - LINE 150MM	METER	325	325												
M7800425	PREFORMED PLASTIC PAVEMENT MARKING, TYPE B - LINE 300MM	METER	75	75												
M7800440	PREFORMED PLASTIC PAVEMENT MARKING, TYPE B - LINE 600MM	METER	25	25												
M7802010	POLYUREA PAVEMENT MARKING TYPE I - LINE 100MM	METER	129		129											
M7802015	POLYUREA PAVEMENT MARKING TYPE I - LINE 150MM	METER	172		172											
M8100060	CONDUIT IN TRENCH, 50MM DIA., GALVANIZED STEEL	METER	1247			150	309	788								
M8100070	CONDUIT IN TRENCH, 65MM DIA., GALVANIZED STEEL	METER	49.3			25	24.3									
M8100100	CONDUIT IN TRENCH, 100MM DIA., GALVANIZED STEEL	METER	6			3	3									
M8101050	CONDUIT PUSHED, 50MM DIA., GALVANIZED STEEL	METER	85.2			10	65.2	10								
M8101070	CONDUIT PUSHED, 75MM DIA., GALVANIZED STEEL	METER	118							118						
M8101090	CONDUIT PUSHED, 100MM DIA., GALVANIZED STEEL	METER	264.9			139.5	125.4									
M8110160	CONDUIT ATTACHED TO STRUCTURE, 50MM DIA., GALVANIZED STEEL	METER	45.5					45.5								

\*Specialty Items

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# SUMMARY OF QUANTITIES

FAP ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO
332/87E	2002-113R	WILL	242	11
STA.	TO STA.			
EXISTING CONDITIONS:				

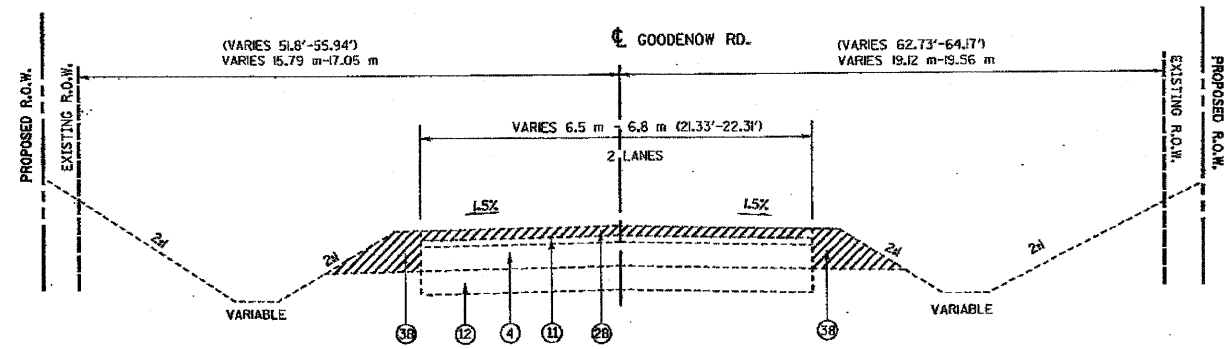
SUMMARY OF QUANTITIES			URBAN 80% FED. 20% STATE TOTAL		ACF ROADWAY			ACBHF BRIDGE			CONSTRUCTION TYPE CODE				
CODE NO	ITEM	UNIT	QUANTITIES	I000-2A	X071-2A	TRAFFIC SYGNAL GOODENOW RD Y031-1F	TRAFFIC SIGNAL IL-394 Y031-1F	TRAFFIC SIGNAL INTERCONNECT Y031-1F	CRETE TOWNSHIP FIRE DEPT Y031-3D	100% STATE LIGHTING Y030-1E	ACBHF NOISE WALL 80% FED. 20% STATE 1000-2A				
50600300	CLEANING AND PAINTING STEEL BRIDGE	L SUM	1		1										
50606400	CONTAINMENT AND DISPOSAL OF LEAD PAINT CLEANING RESIDUES	L SUM	1		1										
M4206100	BRIDGE APPROACH PAVEMENT CONNECTOR (PCC)	SQ M	42.0		42.0										
M5870300	CONCRETE SEALER	SQ M	45.0		45.0										
X0323568	CHANNEL CLEANING	L SUM	1		1										
X5020501	UNDERWATER STRUCTURE EXCAVATION PROTECTION- LOCATION 1	EACH	1		1										
X5020502	UNDERWATER STRUCTURE EXCAVATION PROTECTION- LOCATION 2	EACH	1		1										
MX033447	PIPE CULVERT REMOVAL, 600 MM	METER	170		170										
<del>MX033788</del>	<del>BRIDGE DECK PATCHING (PARTIAL)</del>	<del>SQ M</del>	<del>15</del>		<del>15</del>										
<del>MX033789</del>	<del>BRIDGE DECK PATCHING (FULL DEPTH)</del>	<del>SQ M</del>	<del>15</del>		<del>15</del>										
020076600	TRAINERS	HOUR	1,000	1,000											
*M2502024	SEEDING, CLASS 4B (MODIFIED)	HA	0.5	0.5											
*C2C01563	SHRUB, CORNUS OBLIQUA (PALE DOGWOOD), CONTAINER GROWN, 3-GALLON	EACH	100	100											
*C2C01524	SHRUB, CORNUS RACEMOSA (GREY DOGWOOD), 2' HEIGHT, CONTAINER	EACH	100	100											
MX032178	TEMPORARY INFORMATION SIGNING	SQ M	11.5	11.5											
<del>M2810105</del>	<del>STONE RIPRAP, CLASS A3</del>	<del>SQ M</del>	<del>150</del>	<del>150</del>											
60237460	INLETS, TYPE A, TYPE 23 FRAME AND GRATE	EACH	7	7											
M4063085	HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N70	M TON	780	780											
M6021012	MANHOLES, TYPE A, 1.5M DIAMETER, TYPE 1 FRAME, RESTRICTOR PLATE, CLOSED LID	EACH	1	1											

0Y080  
\*Specialty Items

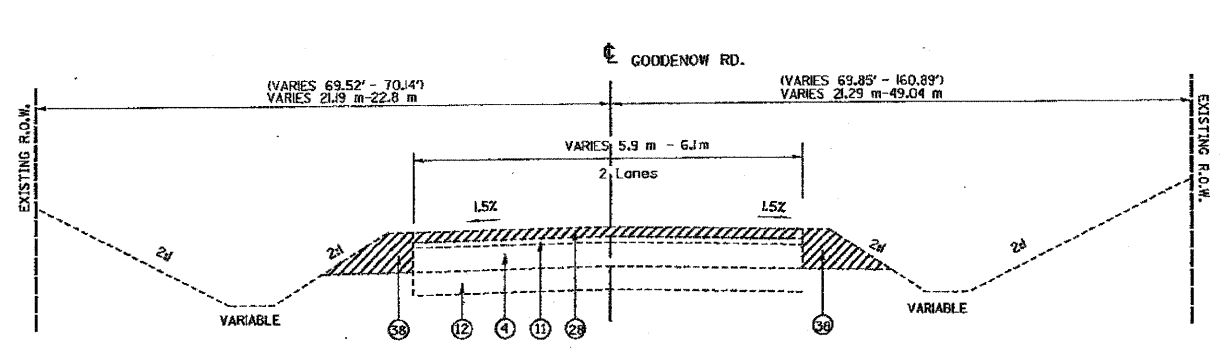
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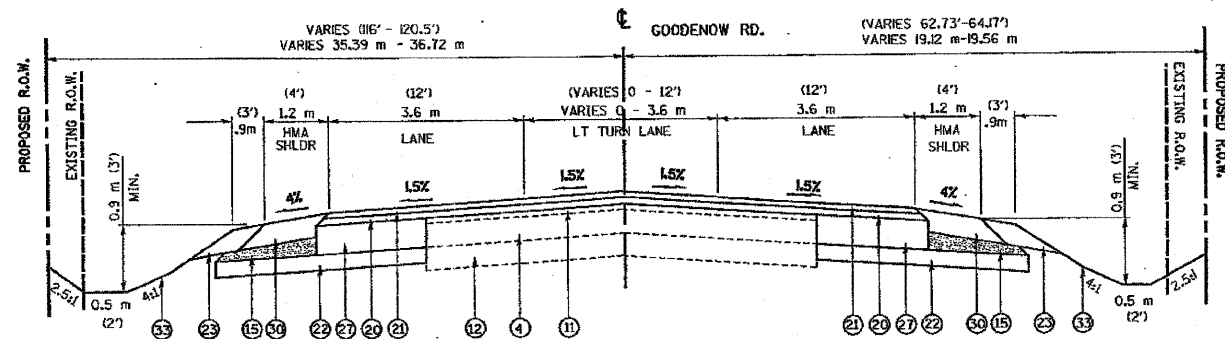
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
332/876	2002-113R	WILL.	242	20
STA. 3+900		TO STA. 4+100		
FED. ROAD DIST. NO. 1		ILLINOIS FED. AID PROJECT		



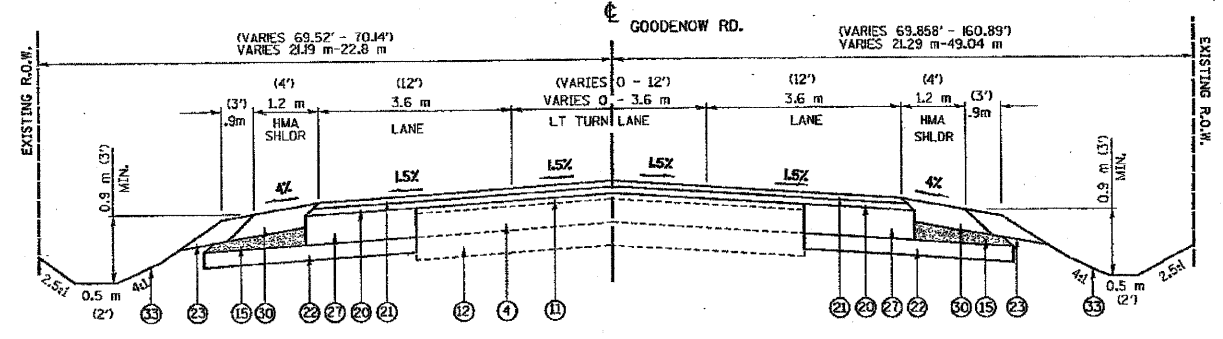
EXISTING TYPICAL SECTION  
GOODENOW RD.  
STA 3+900 TO STA 4+000



EXISTING TYPICAL SECTION  
GOODENOW RD.  
STA 4+000 TO STA 4+100



PROPOSED TYPICAL SECTION  
GOODENOW RD.  
STA 3+900 TO STA 4+000



PROPOSED TYPICAL SECTION  
GOODENOW RD.  
STA 4+000 TO STA 4+100

LEGEND:

- |   |   |   |   |  |
|---|---|---|---|--|
| ① EXIST. PCC PAVEMENT 140 mm (5.5")     | ⑬ PROP. PAVEMENT REMOVAL (STA. 61+375-61+475)                                 | ⑳ PROP. LEVELING BINDER (MM), N70, 19 mm (0.75")                    | ⑳ PROP. SODDING, SALT TOLERANT WITH 100 mm TOPSOIL PLACEMENT  | ④① PROP. HMA SURF. CRSE., MIX "D", N50, 38 mm (1.5")       |
| ② EXIST. PCC PAVEMENT 265 mm (10.5")    | ⑭ PROP. AGGREGATE SUBGRADE, 300 mm (12")                                      | ㉑ PROP. POLYMERIZED HMA SURFACE CRSE, MIX "F", N90, 44 mm (1.75")   | ㉒ PROP. HMA SURFACE REMOVAL 40 mm (1.5")  | ④② PROP. NORSE ABUTEMENT WALL, GROUND MOUNTED              |
| ③ EXIST. PCC PAVEMENT 260 mm (10.25")   | ⑮ PROP. SUBBASE GRANULAR MATERIAL, TYPE C                                     | ⑳ PROP. HMA SHOULDER, 150 mm (6")                                   | ㉓ PROP. HMA SURFACE REMOVAL, 60 mm (2.25")  | ④③ PROP. HMA BASE CRSE., N50, 115 mm                       |
| ④ EXIST. CAM/PCC PAVEMENT 165 mm (6.5") | ⑯ PROP. POLYMERIZED HMA BINDER CRSE. IL-19, N90, 395 mm (15.5"), (IN 4 LIFTS) | ㉒ PROP. PCC BASE COURSE, 245 mm (9.5")                              | ㉔ PROP. HMA SURFACE REMOVAL, 25 mm (1")   | ④④ PROP. HMA SURF. CRSE., MIX "C", N50, 50 mm (2.0"), TYP. |
| ⑤ EXIST. HMA PAVEMENT 250 mm (9.75")    | ⑰ PROP. HMA SHOULDER, 255 mm (10") (IN 3 LIFTS)                               | ㉓ PROP. HMA SURFACE REMOVAL 65 mm (2.5")                            | ㉕ PROP. HMA SURFACE REMOVAL   | ④⑤ PROP. HMA BASE CRSE., 200 mm                            |
| ⑥ EXIST. HMA PAVEMENT, 210 mm (8.25")   | ⑱ PROP. STABILIZED SUBBASE (HMA BINDER, IL-19.00 mm)                          | ㉔ PROP. HMA SURFACE REMOVAL 65 mm (2.5")                            | ㉖ PROP. PAVED SHOULDER REMOVAL  | ④⑥ PROP. HMA SURF. CRSE., MIX "C", N50, 50 mm (2.0")       |
| ⑦ EXIST. HMA PAVEMENT, 90 mm (3.5")     | ⑲ PROP. JOINTED PCC PAVEMENT, 240 mm (9.375")                                 | ㉕ PROP. HMA SURFACE REMOVAL 65 mm (2.5")                            | ㉗ PROP. AGGREGATE SHOULDER REMOVAL (PAID FOR AS REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL), TYP         |  |
| ⑧ EXIST. HMA PAVEMENT, 180 mm (7.25")   | ⑳ PROP. LEVELING BINDER (MM), N70, 25 mm (1")                                 | ㉖ PROP. HMA SURFACE REMOVAL 65 mm (2.5")                            | ㉘ No. 19 TIE BARS GROUTED IN PLACE AT 600 mm (24") O.C. INCLUDED IN COST OF PCC PAVEMENT AND PCC SHOULDER |  |
| ⑨ EXIST. HMA PAVEMENT, 240 mm (9.375")  | ㉑ PROP. HMA SURF. CRSE., MIX "D", N70, 38 mm (1.5")                           | ㉗ PROP. HMA SURFACE REMOVAL 65 mm (2.5")                            |   |  |
| ⑩ EXIST. HMA PAVEMENT, 127 mm (5")      | ㉒ PROP. SUBBASE GRANULAR MATERIAL, TYPE B, 100 mm (4")                        | ㉘ PROP. STEEL PLATE BEAM GUARDRAIL                                  |   |  |
| ⑪ EXIST. HMA PAVEMENT, 120 mm (4.625")  | ㉓ PROP. AGGREGATE SHOULDER, TYPE B, 6"  | ㉙ PROP. HMA SHOULDER, 200 mm (8")                                   |   |  |
| ⑫ EXIST. AGGREGATE BASE, 165 mm (6.5")  |   | ㉚ PROP. COMBINATION CURB & GUTTER TYPE M-10.30                      |   |  |
|   |   | ㉛ PROP. COMBINATION CURB & GUTTER TYPE B-15.30                      |   |  |
|   |   | ㉜ PROP. TOPSOIL FURNISH & PLACE, 100mm (FORESLOPE) SEEDING CLASS 2A |   |  |
|   |   | ㉝ PROP. COMPOST FURNISH & PLACE, 100mm (BLACKSLOPE) SEEDING CLASS 4 |   |  |
|   |   | ㉞ EROSION CONTROL BLANKET   |   |  |

⑳ PROP. HMA BINDER CRSE, 185 mm (7 1/4")

NOTE: 1 • TOP OF THE 395 mm (15-1/2") HMA BINDER CRSE LIFT SHALL BE LEVEL WITH TOP OF MILLED SURFACE OF EXISTING AC OVERLAY  
 2 • TOP OF NEW BASE COURSE SHALL BE LEVEL WITH TOP OF MILLED SURFACE OF EXISTING AC OVERLAY.  
 3 • ILL. RTE. 1 STATION INCREASES FROM NORTH TO SOUTH

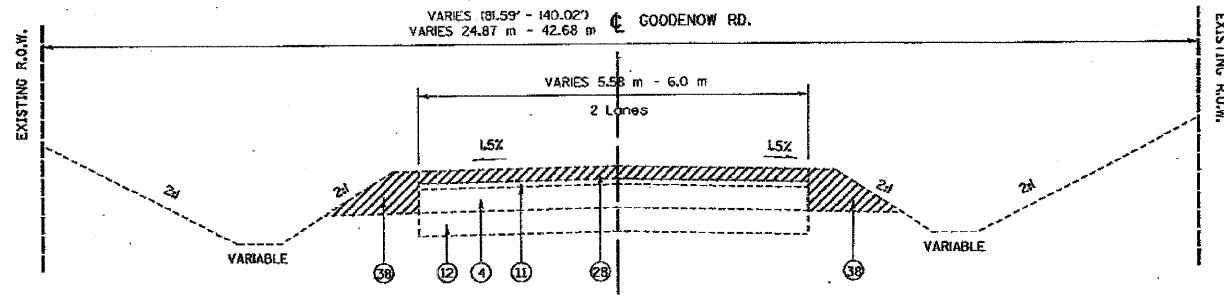
CONTRACTOR SHALL MILL FIRST BEFORE PATCHING

REVISIONS	
NAME	DATE

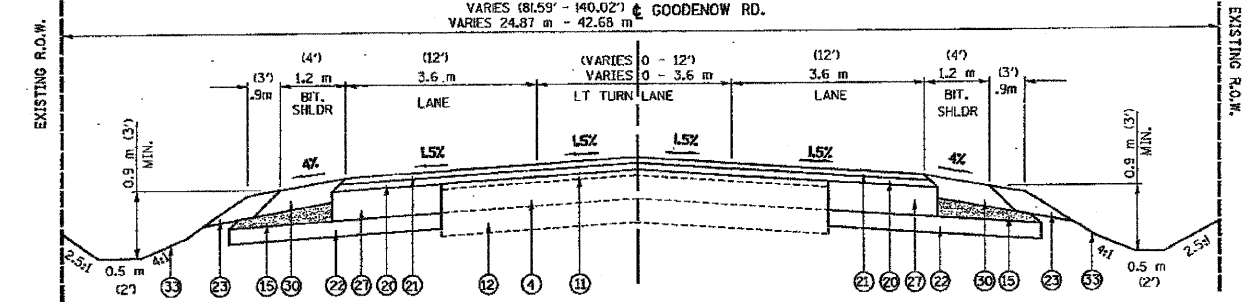
ILLINOIS DEPARTMENT OF TRANSPORTATION  
 GOODENOW ROAD  
 EXISTING AND PROPOSED  
 TYPICAL SECTIONS  
 SCALE: NONE  
 DATE: 8/27/2009  
 DRAWN BY: C.F.  
 CHECKED BY: R.K.

REVISION Δ 10/28/09 SHB

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
332/876	2002-113R	WILL	242	21
STA. 4+100	TO STA. 4+311			
FED. ROAD DIST. NO. 1		ILLINOIS FED. AID PROJECT		



EXISTING TYPICAL SECTION  
GOODENOW RD.  
STA 4+100 TO STA 4+311



PROPOSED TYPICAL SECTION  
GOODENOW RD.  
STA 4+100 TO STA 4+311

LEGEND:

- |  |   |  |   |  |
|--|---|--|---|--|
| <ul style="list-style-type: none"> <li>① EXIST. PCC PAVEMENT 140 mm (5.5")</li> <li>② EXIST. PCC PAVEMENT 265 mm (10.5")</li> <li>③ EXIST. PCC PAVEMENT 260 mm (10.25")</li> <li>④ EXIST. CAM/PCC PAVEMENT 165 mm (6.5")</li> <li>⑤ EXIST. HMA PAVEMENT 250 mm (9.75")</li> <li>⑥ EXIST. HMA PAVEMENT, 210 mm (8.25")</li> <li>⑦ EXIST. HMA PAVEMENT, 90 mm (3.5")</li> <li>⑧ EXIST. HMA PAVEMENT, 180 mm (7.25")</li> <li>⑨ EXIST. HMA PAVEMENT, 240 mm (9.375")</li> <li>⑩ EXIST. HMA PAVEMENT, 127 mm (5")</li> <li>⑪ EXIST. HMA PAVEMENT, 120 mm (4.625")</li> <li>⑫ EXIST. AGGREGATE BASE, 165 mm (6.5")</li> </ul> | <ul style="list-style-type: none"> <li>⑬ PROP. PAVEMENT REMOVAL (STA. 61+375-61+475)</li> <li>⑭ PROP. AGGREGATE SUBGRADE, 300 mm (12")</li> <li>⑮ PROP. SUBBASE GRANULAR MATERIAL, TYPE C</li> <li>⑯ PROP. POLYMERIZED HMA BINDER CRSE. IL-19, N90, 395 mm (15.5"), (IN 4 LIFTS)</li> <li>⑰ PROP. HMA SHOULDER, 255 mm (10") (IN 3 LIFTS)</li> <li>⑱ PROP. STABILIZED SUBBASE (HMA BINDER, IL-19.00 mm)</li> <li>⑲ PROP. JOINTED PCC PAVEMENT, 240 mm (9.375")</li> <li>⑳ PROP. LEVELING BINDER (MM), N70, 25 mm (1")</li> <li>㉑ PROP. HMA SURF. CRSE., MIX "D", N70, 38 mm (1.5")</li> <li>㉒ PROP. SUBBASE GRANULAR MATERIAL, TYPE B, 100 mm (4")</li> <li>㉓ PROP. AGGREGATE SHOULDER, TYPE B, 6"</li> </ul> | <ul style="list-style-type: none"> <li>㉔ PROP. LEVELING BINDER (MM), N70, 19 mm (0.75")</li> <li>㉕ PROP. POLYMERIZED HMA SURFACE CRSE, MIX "F", N90, 44 mm (1.75")</li> <li>㉖ PROP. HMA SHOULDER, 160 mm (6.25")</li> <li>㉗ <b>PROP. HMA BINDER CRSE, 185 mm (7 1/4")</b></li> <li>㉘ PROP. HMA SURFACE REMOVAL 65 mm (2.5")</li> <li>㉙ PROP. STEEL PLATE BEAM GUARDRAIL</li> <li>㉚ PROP. HMA SHOULDER, 200 mm (8")</li> <li>㉛ PROP. COMBINATION CURB &amp; GUTTER TYPE M-10.30</li> <li>㉜ PROP. COMBINATION CURB &amp; GUTTER TYPE B-15.30</li> <li>㉝ PROP. TOPSOIL FURNISH &amp; PLACE, 100mm (FORESLOPE) SEEDING CLASS 2A</li> <li>㉞ PROP. COMPOST FURNISH &amp; PLACE, 100mm (BLACKSLOPE) SEEDING CLASS 4</li> <li>㉟ EROSION CONTRIL BLANKET</li> </ul> | <ul style="list-style-type: none"> <li>㊳ PROP. SODDING, SALT TOLERANT WITH 100 mm TOPSOIL PLACEMENT</li> <li>㊴ PROP. HMA SURFACE REMOVAL 40 mm (1.5")</li> <li>㊵ PROP. HMA SURFACE REMOVAL, 60 mm (2.25")</li> <li>㊶ PROP. HMA SURFACE REMOVAL, 25 mm (1")</li> <li>㊷ PROP. PAVED SHOULDER REMOVAL</li> <li>㊸ PROP. AGGREGATE SHOULDER REMOVAL (PAID FOR AS REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL), TYP</li> <li>㊹ No. 19 TIE BARS GROUTED IN PLACE AT 600 mm (24") O.C. INCLUDED IN COST OF PCC PAVEMENT AND PCC SHOULDER</li> </ul> | <ul style="list-style-type: none"> <li>㊺ PROP. HMA SURF. CRSE., MIX "D", N50, 38 mm (1.5")</li> <li>㊻ PROP. NORSE ABUTEMENT WALL, GROUND MOUNTED</li> <li>㊼ PROP. HMA BASE CRSE., N50, 115 mm</li> <li>㊽ PROP. HMA SURF. CRSE., MIX "C", N50, 50 mm (2.0"), TYP.</li> <li>㊾ PROP. HMA BASE CRSE., 200 mm</li> <li>㊿ PROP. HMA SURF. CRSE., MIX "C", N50, 50 mm (2.0")</li> </ul> |
|--|---|--|---|--|

- NOTE: 1 • TOP OF THE 395 mm (15-1/2") HMA BINDER CRSE LIFT SHALL BE LEVEL WITH TOP OF MILLED SURFACE OF EXISTING AC OVERLAY  
 2 • TOP OF NEW BASE COURSE SHALL BE LEVEL WITH TOP OF MILLED SURFACE OF EXISTING AC OVERLAY.  
 3 • ILL. RTE. 1 STATION INCREASES FROM NORTH TO SOUTH

	HOT-MIX ASPHALT MIXTURE REQUIREMENTS	
	MIXTURE TYPE	AIR VOIDS @ NDES
WIDENING / RESURFACING - IL 394	POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, MIX F, IL 9.5 mm, N90	4% @ 90 GYR
	LEVELING BINDER (MACHINE METHOD) IL-19.0, N70	4% @ 70 GYR
	POLYMERIZED HOT-MIX ASPHALT BINDER CRSE, IL-19.0, N90	4% @ 90 GYR
WIDENING - GOODENOW ROAD	HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N70 (IL 9.5 mm)	4% @ 70 GYR
	LEVELING BINDER, (MACHINE METHOD), N70 (IL 9.5 mm)	4% @ 70 GYR
DRIVEWAYS	HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N50, IL 9.5 mm	4% @ 50 GYR
	HOT-MIX ASPHALT BASE COURSE (HMA BINDER IL-19 mm)	4% @ 50 GYR
TEMPORARY PAVEMENTS	HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N50 (IL 9.5 mm)	4% @ 50 GYR
	HMA BINDER (IL-19mm)	4% @ 70 GYR
CLASS D PATCHES	HMA BINDER (IL-19mm)	4% @ 70 GYR
HMA SHOULDER	HMA BINDER (IL-19mm)	4% @ 70 GYR

THE UNIT WEIGHT USED TO CALCULATE ALL HMA SURFACE MIXTURE QUANTITIES IS 112 LBS/50 YD<sup>3</sup>/IN  
 FOR "AC TYPE" AND "PERCENT RAP" SEE DISTRICT ONE SPECIAL PROVISIONS

CONTRACTOR SHALL MILL FIRST BEFORE PATCHING

REVISIONS		ILLINOIS DEPARTMENT OF TRANSPORTATION GOODENOW ROAD EXISTING AND PROPOSED TYPICAL SECTIONS
NAME	DATE	

SCALE: NONE  
 DATE: 8/27/2009  
 DRAWN BY: C.F.  
 CHECKED BY: R.K.

REVISION Δ 10/28/09 SHB

HOT-MIX ASPHALT PAVEMENT										
ROUTE	TEMPORARY PAVEMENT (SQ M)	HMA SURF. CRSE. MIX "C" N50 (MTON)	HMA SURF. CRSE. MIX "D" N50 (MTON)	HMA SURF. CRSE. MIX "D" N70 (MTON)	POLY. HMA SURF. MIX "F" N90 (MTON)	HMA BINDER COURSE IL 19.0, N90 (MTON)	LEVELING BINDER (MM) N TO (MTON)	HMA SHOULDERS 150 mm (SQ M)	HMA SHOULDERS 200 mm (SQ M)	HMA SHOULDERS 250 mm (SQ M)
IL 394	1205	34	521	---	3900	10420	1841	365	---	5374
OLD IL 1	---	---	---	907	---	---	352	355	---	---
GOODENOW RD	---	---	---	612	---	---	232	---	712	---
PYT DRIVEWAY	---	63	---	---	---	---	---	---	---	---
COM DRIVEWAY	---	103	---	---	---	---	---	---	---	---
<b>TOTAL</b>	<b>1205</b>	<b>200</b>	<b>521</b>	<b>1519</b>	<b>3900</b>	<b>10420</b>	<b>2425</b>	<b>720</b>	<b>712</b>	<b>5374</b>

BASE COURSES						
ROUTE	SUB-BASE GRANULAR MATERIAL, TY C (CU M)	SUB-BASE GRANULAR MATERIAL, TY C 300 MM (SQ M)	SUB-BASE GRANULAR MATERIAL, TY B 100 MM (SQ M)	HMA BASE CRS. 150 MM (SQ M)	HMA BASE CRS. 200 MM (SQ M)	STAB SUB-BASE BAM 100 MM (SQ M)
IL 394	590	550	---	---	---	---
OLD IL 1	---	---	1566	329	778	1759
GOODENOW RD	73	---	1972	88	235	---
<b>TOTAL</b>	<b>663</b>	<b>550</b>	<b>3538</b>	<b>417</b>	<b>1013</b>	<b>1759</b>

CURB AND GUTTER			
ROUTE	COMB. CONC. C&G TY. B-15.30 (M)	COMB. CONC. C&G TY. M-10.30 (M)	CLASS SI CONCRETE (OUTLET) (CU M)
IL 394	---	804	11.6
OLD IL 1	255	---	---
GOODENOW RD	---	---	---
<b>TOTAL</b>	<b>255</b>	<b>804</b>	<b>11.6</b>

PORTLAND CEMENT CONCRETE		
ROUTE	P.C.C. PAVEMENT 240 MM JOINTED (SQ. M)	P.C.C. BASE COURSE 248 MM (SQ. M)
REALIGNED IL 1	690.475	1308.705
OLD IL 1	1369.825	1564.039
GOODENOW RD	---	1557.257
<b>TOTAL</b>	<b>1369.815</b>	<b>3121.295</b>

QC/QA BITUMINOUS MIXTURES SCHEDULE					
QC/QA HMA	SQ M	THICKNESS (MM)	CU M	CONVERSION FACTOR	TOTALS (M TON)
TEMPORARY PAVEMENT	1205	0.350	938.1	0.06823	29
HMA CONC SURF CRSE. MIX "C" N50	---	---	---	---	200
HMA SURF CRSE. MIX "D" N50	---	---	---	---	521
HMA SURF CRSE. MIX "D" N70	---	---	---	---	2150
POLY. HMA SURF. MIX "F" N90	---	---	---	---	3900
HMA BINDER COURSE, IL 19.0, N90	---	---	---	---	10420
LEVELING BINDER (MACHINE METHOD), N70	---	---	---	---	2670
HMA SHOULDERS 150 mm	720	0.160	115.5	0.06823	7.5
HMA SHOULDERS, 200 mm	712	0.200	142.4	0.06823	10
HMA SHOULDERS 250 mm	5374	0.250	1516.3	0.06823	92
HMA BASE CRS., 150 MM	417	0.150	103.7	0.06823	4.3
HMA BASE CRS., 200 MM	1013	0.200	227.4	0.06823	14
STAB SUB-BASE BAM 100 MM	1759	0.100	1143	0.06823	12
<b>TOTAL QC/QA BITUMINOUS (M TON)</b>					<b>20030</b>

QC/QA CONCRETE SCHEDULE				
QC/QA CONCRETE	TYPE	LENGTH (M)	AREA (SQ M)	TOTAL (CU M)
COMB. CURB & GUTTER	B-15.30	255	0.218	55.590
	M-10.30	804	0.255	213.060
			AREA (SQ M)	THICKNESS (MM)
P.C.C. PAVEMENT JOINTED		1369.815	0.240	328.752
P.C.C. BASE COURSE		3121.295	0.245	764.719
CLASS SI CONC (OUTLET)		---	---	11.600
<b>TOTAL QC/QA CONCRETE (CU. M)</b>				<b>1105.971</b>

EARTHWORK							
1	2	3	4	5	6	7	8
	EARTH EXCAVATION (CU. M)	UNSUITABLE MATERIAL (CU. M)	EMBANKMENT (CU. M)	ADJUSTMENT FOR SHRINKAGE (CU. M)	EARTHWORK BALANCE (CU. M)	TOP-SOIL FURNISH AND PLACE (SQ. M)	COMPOST FURNISH AND PLACE (SQ. M)
IL 394	17375.000	5755.000	8050.000	9877.000	1827.000	6952.360	6952.360
OLD IL 1	1037.500	312.50	3347.500	648.130	-2699.380	3168.840	3168.840
GOODENOW RD	2936.000	1423.500	2311.000	1306.880	-1004.130	2755.180	2755.180
<b>TOTAL</b>	<b>21348.500</b>	<b>7491.000</b>	<b>13708.500</b>	<b>11831.900</b>	<b>1876.500</b>	<b>12876.980</b>	<b>12876.980</b>

COLUMN 1: LOCATION FROM PLANS  
 COLUMN 2: CUT QUANTITIES FROM CROSS SECTIONS. THIS DOES NOT INCLUDE UNSUITABLE MATERIAL  
 COLUMN 3: CUT MATERIAL THAT IS DETERMINED TO BE EITHER UNSTABLE OR UNSUITABLE FOR USE IN EMBANKMENT (TOP SOIL EXCAVATED AT 150MM (6") AVERAGE DEPTH)  
 COLUMN 4: QUANTITIES FROM CROSS SECTIONS  
 COLUMN 5: EARTH EXCAVATION QUANTITIES THAT ARE TO BE USED AS FILL MATERIAL IN THE EMBANKMENT. INCLUDES DEDUCTION FOR UNSUITABLE MATERIAL. EARTH EXCAVATION SHRINKAGE FACTOR WAS DETERMINED TO BE 15%  
 COLUMN 6: EARTHWORK BALANCE- (-) QUANTITY TO BE FURNISHED, (+) QUANTITY TO BE WASTED  
 COLUMN 7: TOP SOIL FURNISH AND PLACE = 1/2 AREA OF SOD  
 COLUMN 8: COMPOST FURNISH AND PLACE = 1/2 AREA OF SOD

REVISIONS		ILLINOIS DEPARTMENT OF TRANSPORTATION
NAME	DATE	
		<p style="text-align: center;">SCHEDULE OF QUANTITIES</p> <p>SCALE: NONE                      DRAWN BY CADD</p> <p>DATE: 8/27/2009                      CHECKED BY</p>

REVISION  $\Delta$  10/28/09 SHB

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
332/876	2002-113R	WILL	242	77
STA.		TO STA.		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

IL 394

STORM SEWER PIPE

NO.	STATION AND OFFSET	TO	STATION AND OFFSET	TYPE	CLASS	DIA. (mm)	METER	TB	FLARED
								CU. M.	END SECT
1	60+302.93 15.45 LT	TO	60+448.82 15.702 LT	1	A	750	45.500	45.451	---
2	60+350.88 13.298 LT	TO	60+351.23 14.703 RT	1	A	300	27.749	33.5	---
3	60+348.55 15.766 LT	TO	60+419.13 15.254 LT	1	A	600	71.106	91.554	---
4	60+419.15 15.254 LT	TO	60+479.65 15.527 LT	1	A	450	60.992	82.567	---
5	60+517.478 0.236 RT	TO	60+517.681 2.202 RT	1	A	600	2.438	4.870	---
6	60+518.476 0.036 RT	TO	60+520.304 0.167 RT	1	A	600	89.134	261.180	---
7	60+518.476 0.531 RT	TO	60+526.758 2.050 RT	1	A	375	7.298	6.404	---
8	60+526.758 2.753 RT	TO	60+526.758 4.000 RT	1	A	300	4.910	10.734	---
9	61+270.000 1.335 LT	TO	61+329.390 2.950 LT	1	A	450	65.604	45.418	1
10	61+330.000 1.998 LT	TO	61+330.000 1.112 LT	1	A	300	0.887	0.683	---
11	61+330.610 2.141 LT	TO	61+403.258 2.141 LT	1	A	450	72.648	125.986	---
12	61+403.868 1.989 LT	TO	61+403.868 1.102 LT	1	A	300	0.887	0.587	---
13	61+404.630 2.141 LT	TO	61+445.125 3.248 RT	1	A	450	41.069	98.520	---
14	61+445.735 3.365 RT	TO	61+445.735 4.331 RT	1	A	300	0.966	2.451	---
15	61+446.344 2.787 RT	TO	61+499.390 2.787 RT	1	A	450	53.045	134.997	---
16	61+500.000 3.396 RT	TO	61+500.000 4.283 RT	1	A	300	0.966	2.616	---
17	61+500.610 2.787 RT	TO	61+546.565 3.330 RT	1	A	450	45.955	140.365	---

1A	60+297.270 22.62 LT	TO	60+546.856 51.52 LT	1	A	750	9.094	9.217	1
2A	61+500.610 2.787 RT	TO	60+546.565 3.330 RT	1	A	300	45.955	82.067	---
2B	60+418.97 15.254 LT	TO	60+421.12 12.991 LT	1	A	300	3.14	4.331	---
3A	60+420.61 16.942 RT	TO	60+421.18 13.072 LT	1	A	300	29.466	39.80	---
4A	60+482.48 17.178 RT	TO	60+482.68 13.796 LT	1	A	300	30.976	40.052	---
4B	60+479.67 15.57 LT	TO	60+482.68 13.796 RT	1	A	300	3.505	4.452	---

OLD IL. ROUTE 1

STORM SEWER PIPE

NO.	STATION AND OFFSET	TO	STATION AND OFFSET	TYPE	CLASS	DIA. (mm)	METER	TB	FLARED
								CU. M.	END SECT
39	2+450.450 7.20 RT	TO	2+499.550 7.74 RT	1	A	375	49.100	89.316	---
40	2+500.450 7.74 RT	TO	2+537.604 7.74 RT	1	A	375	37.154	19.829	1
41	2+618.478 2.524 RT	TO	2+624.819 10.266 RT	1	A	375	12.750	3.416	1

IL 394

DRAINAGE STRUCTURES TABLE

NO.	STATION	OFFSET (M)	STRUCTURE TYPE			DIA.	FRAME	TOP OF GRATE	INVERT (E)	INVERT (W)	INVERT (N)	INVERT (S)
			MH	CB	INL							
* 1	60+302.900	15.52 LT	X			1.5 M	T23FG					
* 2	60+351.260	14.684 RT		X		1.2 M	T23FG					
* 3	60+421.148	13.000 LT		X		1.2 M	T23FG					
* 4	60+482.223	17.087 RT			X	1.2 M	T23FG					
5	60+517.714	0.016 RT	X			1.5 M	T1FCL	220.940	218.724	218.474 NE	218.297	
6	60+526.841	2.736 RT		X		1.2 M	T23FG	220.938	218.626			218.474
7	60+526.841	4.056 RT		X	X	1.2 M	T23FG	221.126		218.641		
8	61+330.000	2.296 RT		X		1.5 M	T23FG	228.529	226.623		226.623	226.593
9	61+330.000	0.795 LT		X	X	1.2 M	T23FG	228.379		226.638		
10	61+403.868	2.296 LT		X		1.5 M	T23FG	229.223	226.871		226.871 NE	226.841
11	61+403.868	0.796 LT		X	X	1.2 M	T23FG	229.136		226.102		
12	61+445.735	3.104 RT		X		1.5 M	T23FG	229.447	227.024		227.024	226.994
13	61+445.735	4.604 LT		X	X	1.2 M	T23FG	229.715		227.027		
14	61+500.000	3.108 RT		X		1.5 M	T23FG	229.712	227.213		227.213	227.183
15	61+500.000	4.604 RT		X	X	1.2 M	T23FG	230.014		227.216		

NOTE: STRUCTURE #1 SHALL BE CONSTRUCTED WITH A RESTRICTOR PLATE

* 1A	60+349.000	15.65 LT	X			1.5 M	T1FCL					
* 1B	60+351.000	13.32 LT		X		1.5 M	T1FCL					
* 2A	60+421.000	17.06 LT		X		1.5 M	T23FG					
* 3A	60+419.000	15.21 LT	X			1.5 M	T1FCL					
* 5A	60+479.600	15.64 LT	X			1.5 M	T1FCL					
* 5B	60+482.000	13.78 LT		X		1.2 M	T23FG					

\* THE INVERT ELEVATIONS AND TOP OF THE GRATES SHALL BE DETERMINED IN THE FIELD DURING CONSTRUCTIONS

OLD IL. ROUTE 1

DRAINAGE STRUCTURES TABLE

NO.	STATION	OFFSET (M)	STRUCTURE TYPE			DIA.	FRAME	TOP OF GRATE	INVERT (E)	INVERT (W)	INVERT (N)	INVERT (S)
			MH	CB	INL							
25	2+450.000	7.200 RT		X		1.2 M	T8G	221.936				220.458
26	2+500.000	7.740 RT		X		1.2 M	T8G	219.588			218.985	218.982
27	2+618.233	2.504 RT		X		1.2 M	T23FG	218.088	216.969			

IL 394

PIPE CULVERT TABLE

NO.	STATION AND OFFSET	TO	STATION AND OFFSET	TYPE	CLASS	DIA. (mm)	METER	INVERT (E)	INVERT (W)	INVERT (N)	INVERT (S)	TB	FLARED	
														CU. M.
18	61+403.530	26.467 LT	TO	61+449.258	27.577 LT	1	A	750	40.728		227.423	227.570	2.546	2
19	61+404.964	23.000 RT	TO	61+445.210	23.200 RT	1	A	600	40.385		227.446	228.102	18.328	2

GOODENOW RD.

PIPE CULVERT TABLE

NO.	STATION AND OFFSET	TO	STATION AND OFFSET	TYPE	CLASS	DIA. (mm)	METER	INVERT (E)	INVERT (W)	INVERT (N)	INVERT (S)	TB	FLARED
20	3+905.001	10.660 LT	TO	3+910.999	10.940 LT	1	A	375	5.998	217.480	217.300	0.312	2
21	3+916.701	11.220 RT	TO	3+926.099	11.590 RT	1	A	375	9.398	217.840	217.285	1.786	2
22	3+918.001	11.663 LT	TO	3+927.249	11.257 LT	1	A	375	9.248	218.145	217.664	1.092	2

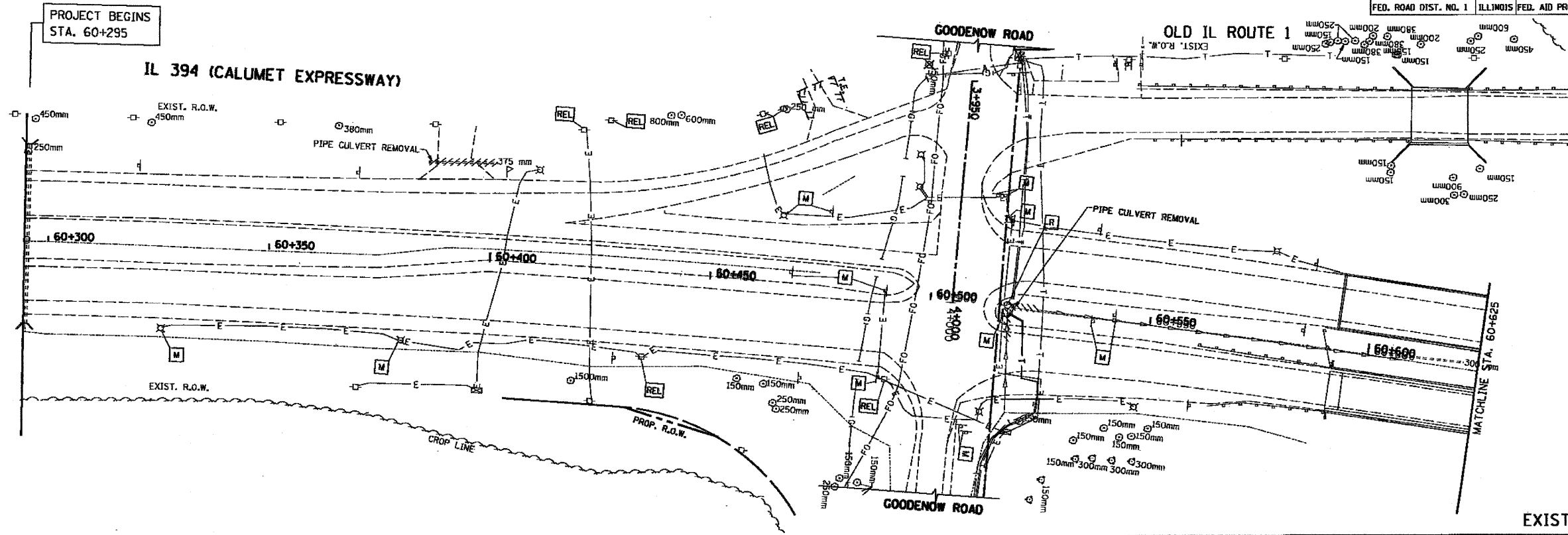
REVISIONS		ILLINOIS DEPARTMENT OF TRANSPORTATION
NAME	DATE	
		F.A.P. 332/876 IL. 394/IL. 1 AT PLUM CREEK DRAINAGE TABLE
SCALE: NONE		DRAWN BY HMO
DATE: 10/28/2009		CHECKED BY R.K.

REVISION 1 10/28/09 SHB

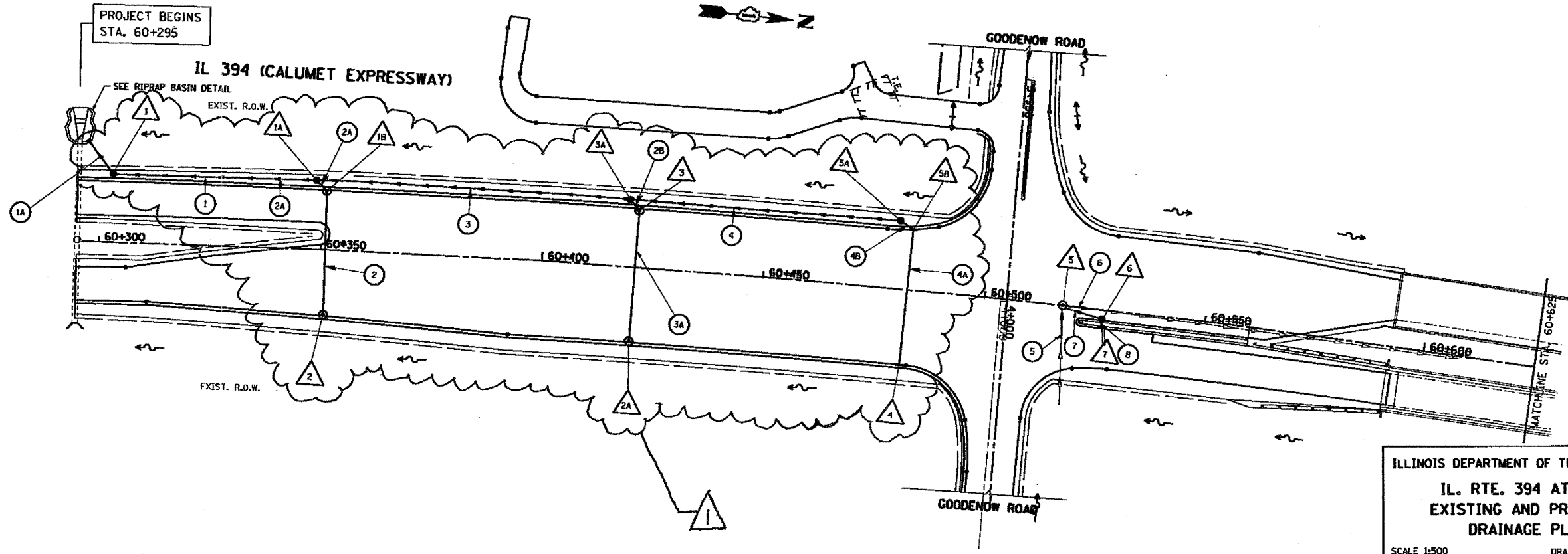
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REF-EDRS  
REF-PDRS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
332/876	2002-113R	WILL	242	78
STA. 60+295 TO STA. 60+625				
FED. ROAD DIST. NO. 1			ILLINOIS FED. AID PROJECT	



EXISTING  
PROPOSED



ILLINOIS DEPARTMENT OF TRANSPORTATION  
**IL. RTE. 394 AT IL. 1**  
**EXISTING AND PROPOSED**  
**DRAINAGE PLAN**  
 SCALE 1:500 DRAWN BY  
 DATE 10/28/2009 CHECKED BY

REVISION  $\Delta$  10/28/09 SHB

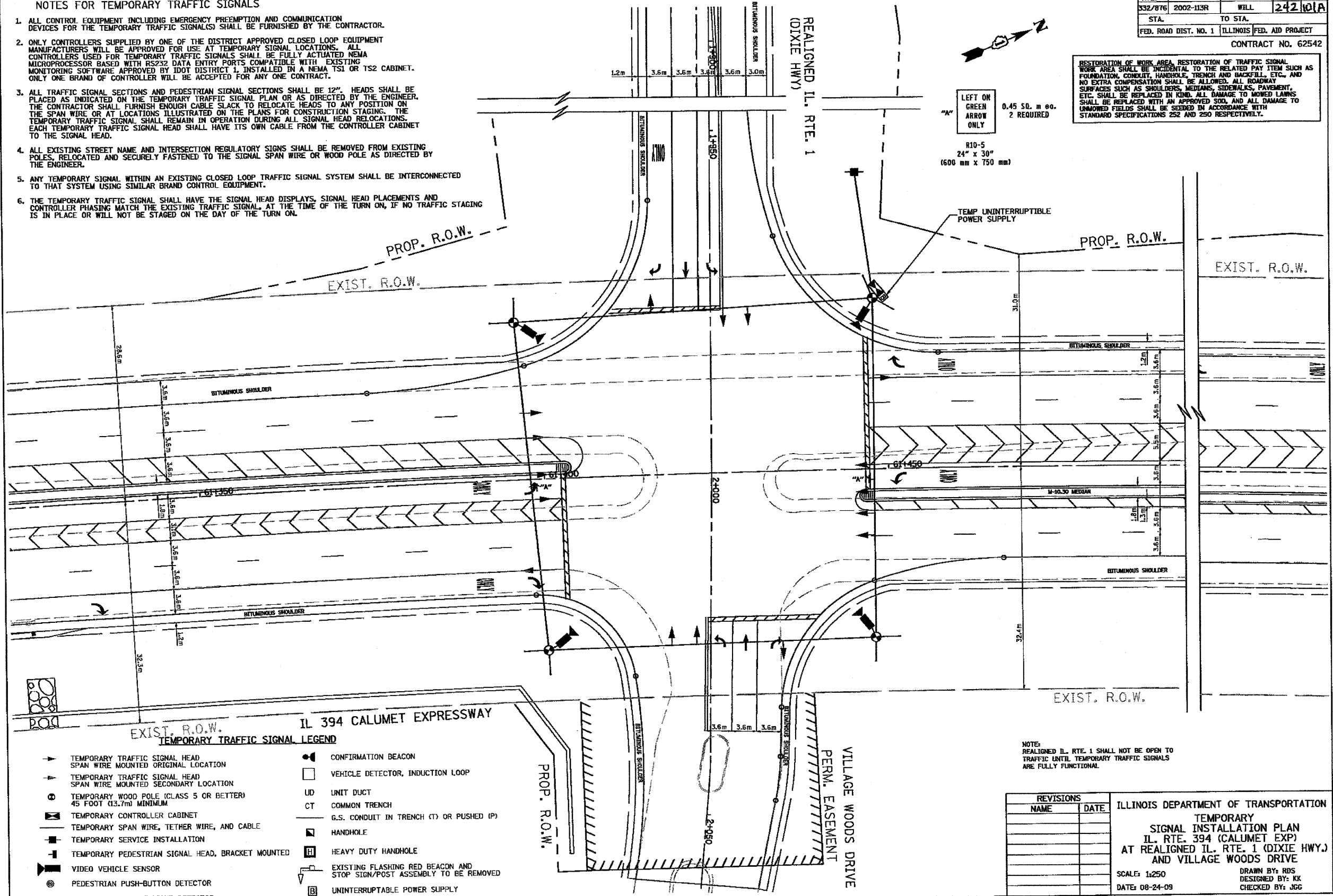
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F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEET SHEETS NO.
332/876	2002-113R	WILL	242 101A
STA.	TO STA.		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT			
CONTRACT NO. 62542			

**NOTES FOR TEMPORARY TRAFFIC SIGNALS**

1. ALL CONTROL EQUIPMENT INCLUDING EMERGENCY PREEMPTION AND COMMUNICATION DEVICES FOR THE TEMPORARY TRAFFIC SIGNAL(S) SHALL BE FURNISHED BY THE CONTRACTOR.
2. ONLY CONTROLLERS SUPPLIED BY ONE OF THE DISTRICT APPROVED CLOSED LOOP EQUIPMENT MANUFACTURERS WILL BE APPROVED FOR USE AT TEMPORARY SIGNAL LOCATIONS. ALL CONTROLLERS USED FOR TEMPORARY TRAFFIC SIGNALS SHALL BE FULLY ACTUATED NEMA MICROPROCESSOR BASED WITH RS232 DATA ENTRY PORTS COMPATIBLE WITH EXISTING MONITORING SOFTWARE APPROVED BY IDOT DISTRICT 1, INSTALLED IN A NEMA TS1 OR TS2 CABINET. ONLY ONE BRAND OF CONTROLLER WILL BE ACCEPTED FOR ANY ONE CONTRACT.
3. ALL TRAFFIC SIGNAL SECTIONS AND PEDESTRIAN SIGNAL SECTIONS SHALL BE 12". HEADS SHALL BE PLACED AS INDICATED ON THE TEMPORARY TRAFFIC SIGNAL PLAN OR AS DIRECTED BY THE ENGINEER. THE CONTRACTOR SHALL FURNISH ENOUGH CABLE SLACK TO RELOCATE HEADS TO ANY POSITION ON THE SPAN WIRE OR AT LOCATIONS ILLUSTRATED ON THE PLANS FOR CONSTRUCTION STAGING. THE TEMPORARY TRAFFIC SIGNAL SHALL REMAIN IN OPERATION DURING ALL SIGNAL HEAD RELOCATIONS. EACH TEMPORARY TRAFFIC SIGNAL HEAD SHALL HAVE ITS OWN CABLE FROM THE CONTROLLER CABINET TO THE SIGNAL HEAD.
4. ALL EXISTING STREET NAME AND INTERSECTION REGULATORY SIGNS SHALL BE REMOVED FROM EXISTING POLES, RELOCATED AND SECURELY FASTENED TO THE SIGNAL SPAN WIRE OR WOOD POLE AS DIRECTED BY THE ENGINEER.
5. ANY TEMPORARY SIGNAL WITHIN AN EXISTING CLOSED LOOP TRAFFIC SIGNAL SYSTEM SHALL BE INTERCONNECTED TO THAT SYSTEM USING SIMILAR BRAND CONTROL EQUIPMENT.
6. THE TEMPORARY TRAFFIC SIGNAL SHALL HAVE THE SIGNAL HEAD DISPLAYS, SIGNAL HEAD PLACEMENTS AND CONTROLLER PHASING MATCH THE EXISTING TRAFFIC SIGNAL, AT THE TIME OF THE TURN ON, IF NO TRAFFIC STAGING IS IN PLACE OR WILL NOT BE STAGED ON THE DAY OF THE TURN ON.

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



LEFT ON GREEN ARROW ONLY  
 "A"  
 0.45 SB. m ea.  
 2 REQUIRED  
 R10-5  
 24" x 30"  
 (600 mm x 750 mm)

TEMP UNINTERRUPTIBLE POWER SUPPLY

**IL 394 CALUMET EXPRESSWAY  
 TEMPORARY TRAFFIC SIGNAL LEGEND**

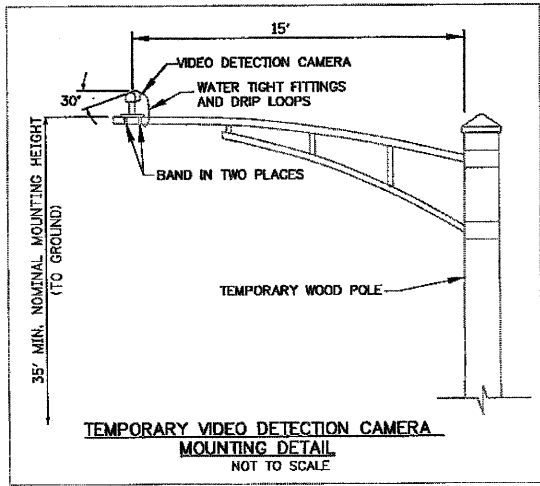
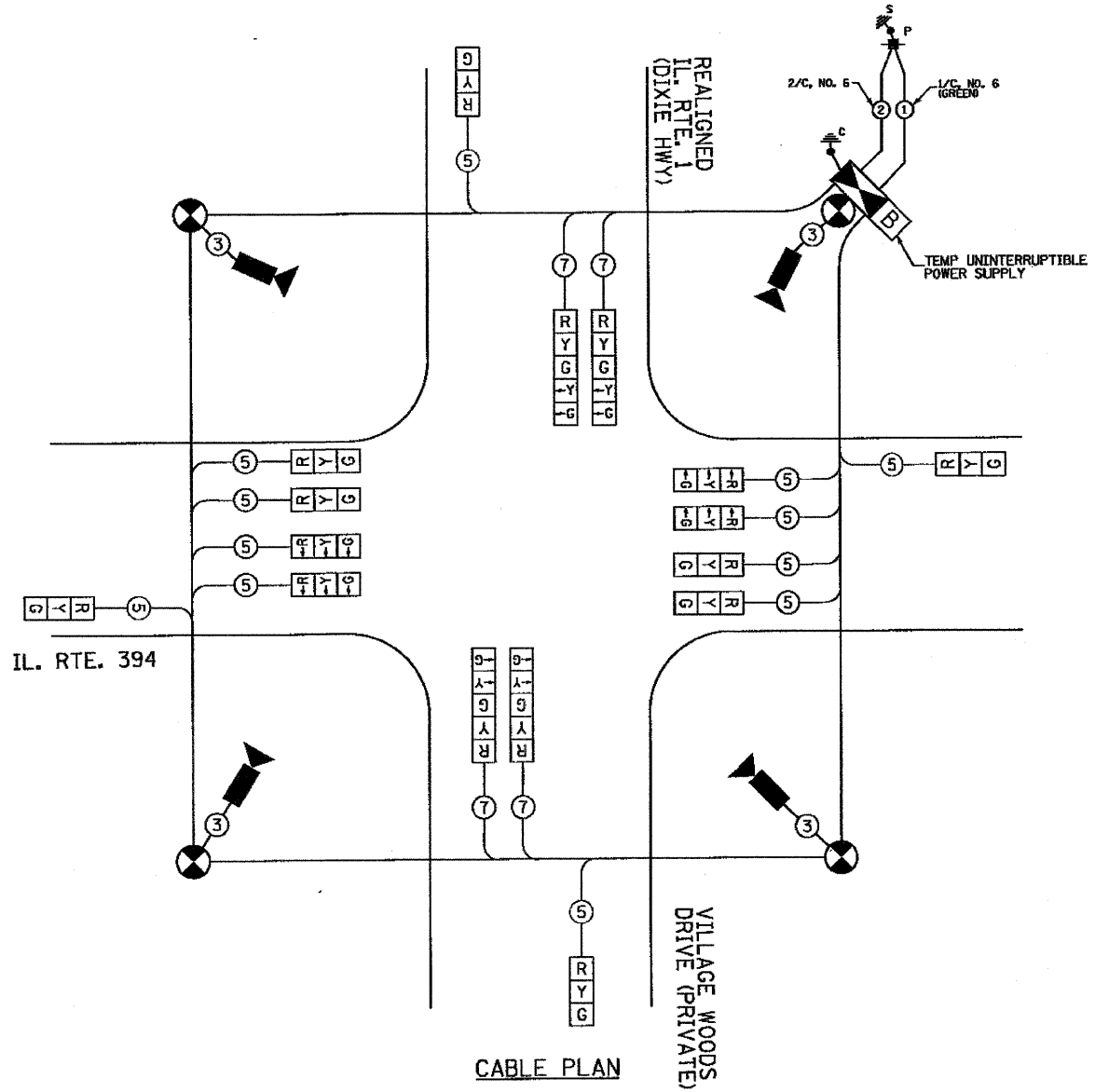
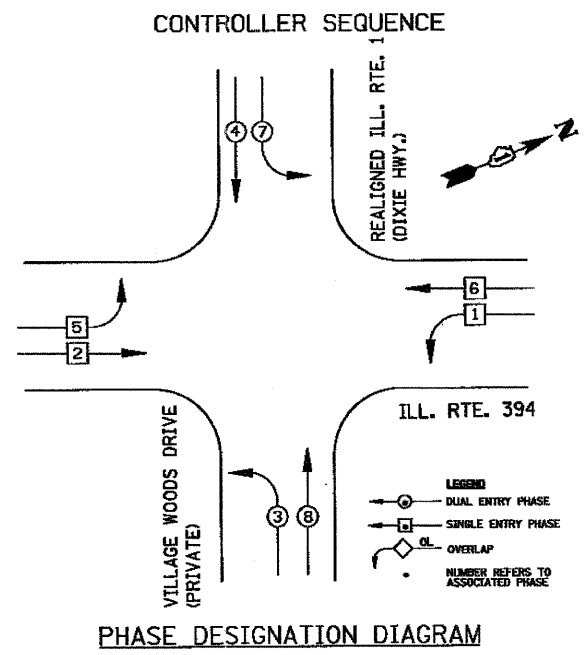
- |  |  |
|--|--|
| ▲ TEMPORARY TRAFFIC SIGNAL HEAD SPAN WIRE MOUNTED ORIGINAL LOCATION  | ● CONFIRMATION BEACON  |
| ▲ TEMPORARY TRAFFIC SIGNAL HEAD SPAN WIRE MOUNTED SECONDARY LOCATION | □ VEHICLE DETECTOR, INDUCTION LOOP                                       |
| ⊙ TEMPORARY WOOD POLE (CLASS 5 OR BETTER) 45 FOOT (13.7m) MINIMUM    | UD UNIT DUCT   |
| ▭ TEMPORARY CONTROLLER CABINET                                       | CT COMMON TRENCH   |
| — TEMPORARY SPAN WIRE, TETHER WIRE, AND CABLE                        | — G.S. CONDUIT IN TRENCH (T) OR PUSHED (P)                               |
| ■ TEMPORARY SERVICE INSTALLATION                                     | ■ HANDHOLE   |
| — TEMPORARY PEDESTRIAN SIGNAL HEAD, BRACKET MOUNTED                  | ■ HEAVY DUTY HANDHOLE  |
| ▶ VIDEO VEHICLE SENSOR   | ■ EXISTING FLASHING RED BEACON AND STOP SIGN/POST ASSEMBLY TO BE REMOVED |
| ⊙ PEDESTRIAN PUSH-BUTTON DETECTOR                                    | ■ UNINTERRUPTIBLE POWER SUPPLY   |
| ▶ EMERGENCY VEHICLE LIGHT DETECTOR                                   |  |

NOTE: REALIGNED IL. RTE. 1 SHALL NOT BE OPEN TO TRAFFIC UNTIL TEMPORARY TRAFFIC SIGNALS ARE FULLY FUNCTIONAL.

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION  
 TEMPORARY SIGNAL INSTALLATION PLAN  
 IL. RTE. 394 (CALUMET EXP)  
 AT REALIGNED IL. RTE. 1 (DIXIE HWY.)  
 AND VILLAGE WOODS DRIVE  
 SCALE: 1:250  
 DATE: 08-24-09  
 DRAWN BY: RDS  
 DESIGNED BY: KK  
 CHECKED BY: JGG

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
332/876	2002-113R	WILL	242	101B
STA.	TO STA.			
FED. ROAD DIST. NO. 1	ILLINOIS FED. AID PROJECT			
CONTRACT NO. 62542				



I.D.O.T. TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS					
TYPE	NO. LAMPS	WATTAGE (INCAND.)	OPERATION (%)	TOTAL WATTAGE	
SIGNAL (RED)	16	135	17	0.60	136.00
(YELLOW)	16	135	29	0.25	100.00
(GREEN)	16	135	15	0.25	60.00
ARRROW	8	135	12	0.10	9.60
PED. SIGNAL	30	25	1.00		
CONTROLLER	1	100	1.00	100.00	
ILLUM. SIGN	84		0.05		
FLASHER				0.50	
TOTAL =				405.60	

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)
D - CONTROLLER	4 (1.2)	DOUBLE HANDHOLE	13 (4.0)	MAST ARM (L) POLE	20' (L-2)
E - M. ARM POLE		SIGNAL POST	2 (1.0)	(6mm-0.8m)	
24" (600mm)	10 (3.0)	CONTROLLER CAB.	1 (0.5)	BRACKET MOUNTED	13 (4.0)
30" (750mm)	15 (4.6)	FIBER OPTIC	13 (4.0)	PED. BUTTON	4 (1.2)
		ELECTRIC SERVICE	1 (0.5)	ELECTRIC SERVICE	13.5 (4.1)
		GROUND CABLE	1 (0.5)	SERVICE TO GROUND	13.9 (4.1)
				POST MOUNTED	6 (1.8)

08-24-09  
 I:\MICROST\350004\N394\VILLAGEWOOD\_TEMP.DGN

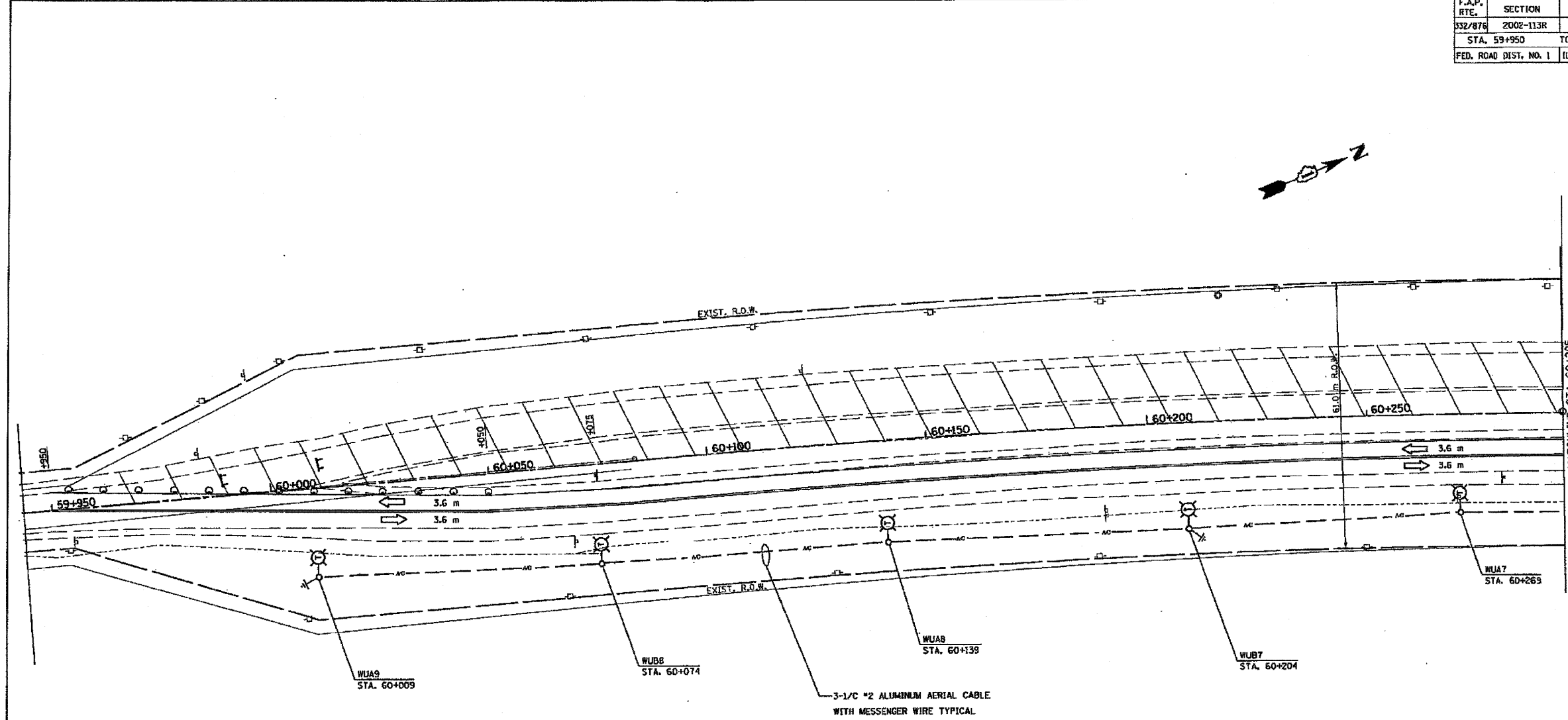
REVISIONS		ILLINOIS DEPARTMENT OF TRANSPORTATION
NAME	DATE	
		<b>TEMPORARY CABLE PLAN</b> <b>ILL. RTE. 394 (CALUMET EXP) AT</b> <b>REALIGNED ILL. RTE. 1 (DIXIE HWY.)</b> <b>AND VILLAGE WOODS DRIVE</b>  SCALE: 1:250 DATE: 08-24-09 DRAWN BY: RDS DESIGNED BY: KK CHECKED BY: JGG

NOTE:  
 REALIGNED ILL. RTE. 1 SHALL NOT BE OPEN TO TRAFFIC UNTIL TEMPORARY TRAFFIC SIGNALS ARE FULLY FUNCTIONAL.

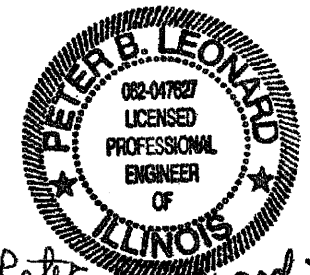


REF-TOPOG  
REF-240

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
332/876	2002-113R	WILL	242	119A
STA. 59+950		TO STA. 60+295		
FED. ROAD DIST. NO. 1		ILLINOIS FED. AID PROJECT		



- NOTES:**
1. ALL TEMPORARY LIGHT POLES SHALL HAVE A MINIMUM SETBACK OF 9M FROM EDGE OF TRAVELED PAVEMENT UNLESS NOTED OTHERWISE.
  2. INSTALL AND ENERGIZE TEMPORARY LIGHTING SYSTEM PRIOR TO CLOSURE OF SOUTH BOUND LANES. TEMPORARY LIGHTING MUST BE OPERATIONAL BEFORE EXISTING LIGHTING IS REMOVED.



*Peter B. Leonard 7/19/09*  
*Exp. 11/30/09*

**HOH ASSOCIATES, INC.**  
2660.05  
HOH CAD FILE No. ES.DGN  
PLOT SCALE 1 = 1

REVISIONS	
NAME	DATE

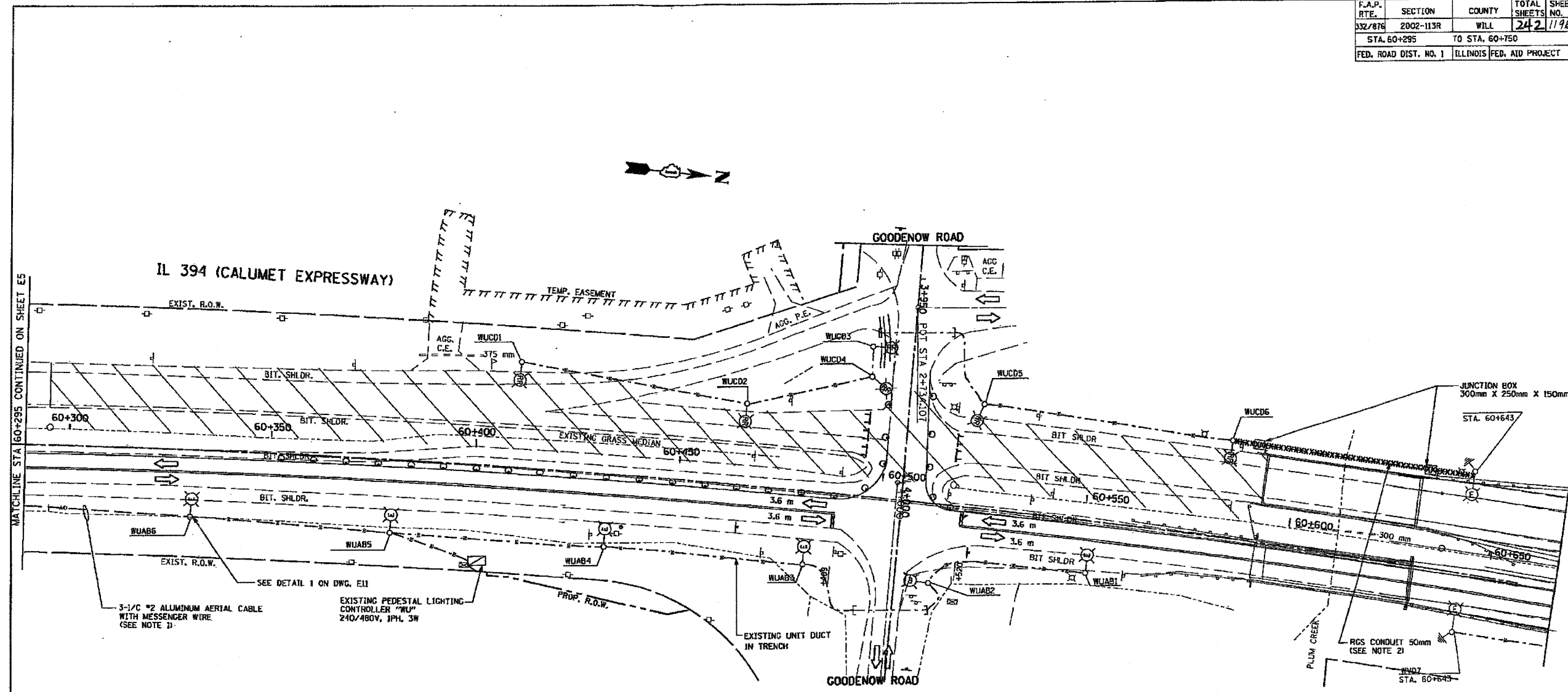
ILLINOIS DEPARTMENT OF TRANSPORTATION  
**IL. RTE. 394 AT GOODENOW**  
**STAGE 2**  
**LIGHTING PLAN**  
SCALE 1:500  
DATE 12-1-2005  
DRAWN BY MEK  
CHECKED BY RER

E5

\*DATE-TIME\*  
\*DGN-SPEC\*  
\*USER\*

REF-PP3

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
332/876	2002-113R	WILL	242	1198
STA. 60+295		TO STA. 60+750		
FED. ROAD DIST. NO. 1		ILLINOIS FED. AID PROJECT		



3-1/2" #2 ALUMINUM AERIAL CABLE WITH MESSENGER WIRE (SEE NOTE 1)

EXISTING PEDESTAL LIGHTING CONTROLLER "WU" 240V/480V, 1PH, 3W

RCS CONDUIT 50mm (SEE NOTE 2)

**NOTES:**

1. CONNECT AERIAL CABLE TO EXISTING WIRING IN POLE WUAB6 TO POWER TEMPORARY LIGHTING. SEE DETAIL 1 ON DWG. E11.
2. REMOVE EXISTING 50mm RCS CONDUIT ALONG BRIDGE STRUCTURE. REMOVE JUNCTION BOXES AT NORTH AND SOUTH OF BRIDGE.
3. INSTALL PROPOSED LIGHT POLE FOUNDATIONS, UNIT DUCT, CONDUIT AND PUSHES TO THE WEST SIDE OF IL-394 IN ACCORDANCE WITH DRAWINGS E2 & E3. PRIOR TO REMOVAL AND RELOCATION OF THE EXISTING LIGHTING UNITS SHOWN ON THIS DRAWING.
4. REFERENCE DRAWING E2 FOR PROPOSED LIGHTING PLAN.



*Peter B. Leonard 7/9/09*  
Exp. 11/30/09

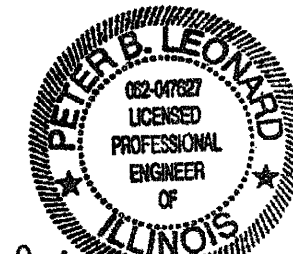
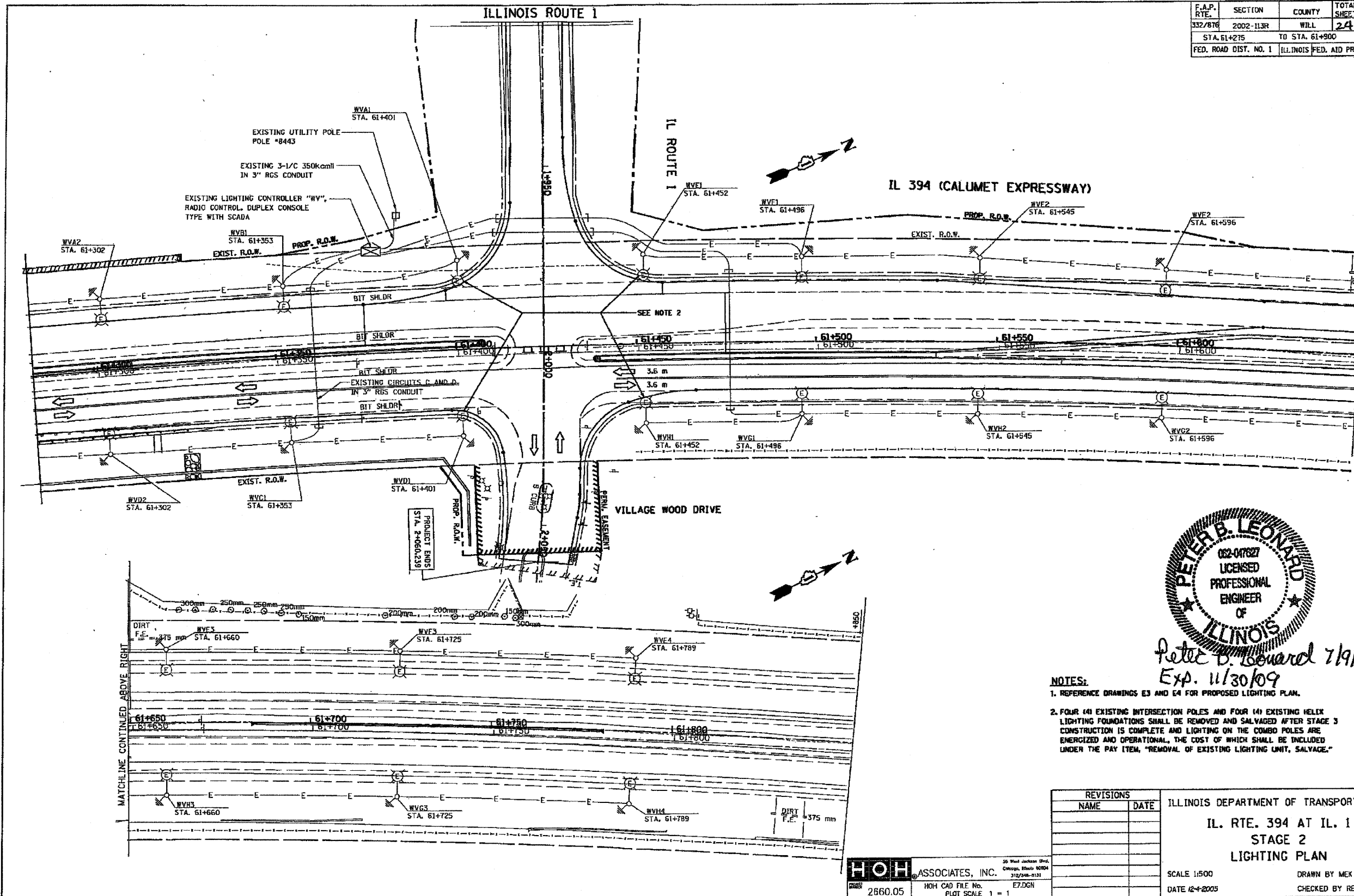
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PLOT SCALE 1 = 1

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION  
**IL. RTE. 394 AT GOODENOW**  
**STAGE 2**  
**LIGHTING PLAN**  
SCALE 1:500  
DATE 12-4-2005  
DRAWN BY MEK  
CHECKED BY RER

E6

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
332/876	2002-113R	WILL	242	190
STA. 61+275		TO STA. 61+900		
FED. ROAD DIST. NO. 1		ILLINOIS FED. AID PROJECT		



*Peter B. Leonard 7/9/09*  
*Exp. 11/30/09*

- NOTES:**
1. REFERENCE DRAWINGS E3 AND E4 FOR PROPOSED LIGHTING PLAN.
  2. FOUR (4) EXISTING INTERSECTION POLES AND FOUR (4) EXISTING HELIX LIGHTING FOUNDATIONS SHALL BE REMOVED AND SALVAGED AFTER STAGE 3 CONSTRUCTION IS COMPLETE AND LIGHTING ON THE COMBO POLES ARE ENERGIZED AND OPERATIONAL. THE COST OF WHICH SHALL BE INCLUDED UNDER THE PAY ITEM, "REMOVAL OF EXISTING LIGHTING UNIT, SALVAGE."

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION  
**IL. RTE. 394 AT IL. 1**  
**STAGE 2**  
**LIGHTING PLAN**

SCALE 1:500  
 DATE 12-4-2005

DRAWN BY MEK  
 CHECKED BY RER

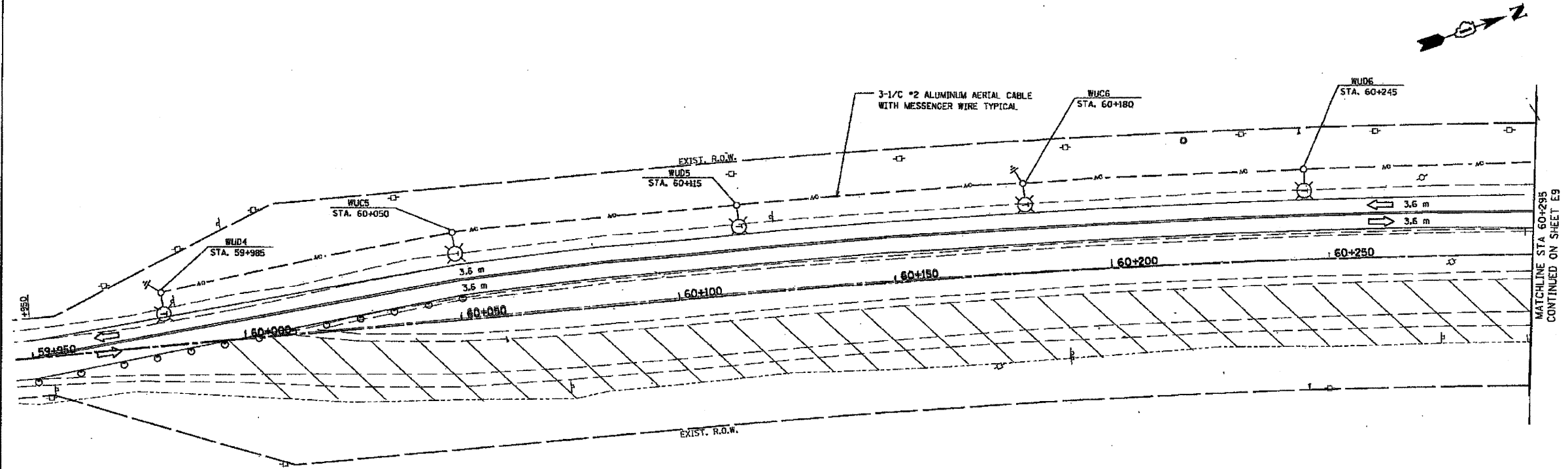
**HOH ASSOCIATES, INC.**  
 26 West Jackson Blvd., Chicago, Illinois 60604  
 312.546.0131  
 2660.05 HOH CAD FILE No. E7.DGN PLOT SCALE 1 = 1

DATE-TIME  
 DGN-SPEC  
 USER

E7

REF-TOP/D  
REF-P/D

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
332/876	2002-113R	WILL	242	1190
STA. 59+950		TO STA. 60+295		
FED. ROAD DIST. NO. 1		ILLINOIS FED. AID PROJECT		



*Peter B. Leonard 7/9/09*  
*Exp. 11/30/09*

- NOTES:**
1. ALL TEMPORARY LIGHT POLES SHALL HAVE A MINIMUM SETBACK OF 5M FROM EDGE OF TRAVELED PAVEMENT UNLESS NOTED OTHERWISE.
  2. INSTALL AND ENERGIZE TEMPORARY LIGHTING SYSTEM PRIOR TO CLOSURE OF NORTH BOUND LANES.

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION  
IL. RTE. 394 AT GOODENOW  
STAGE 3  
LIGHTING PLAN

**HOH ASSOCIATES, INC.**  
2660.05  
HCH CAD FILE No. EB.DGN  
PLOT SCALE 1 = 1

SCALE 1:500  
DATE 12-6-2005  
DRAWN BY MEK  
CHECKED BY RER

E8