

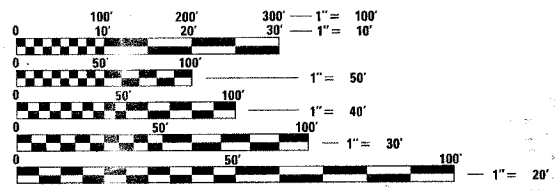
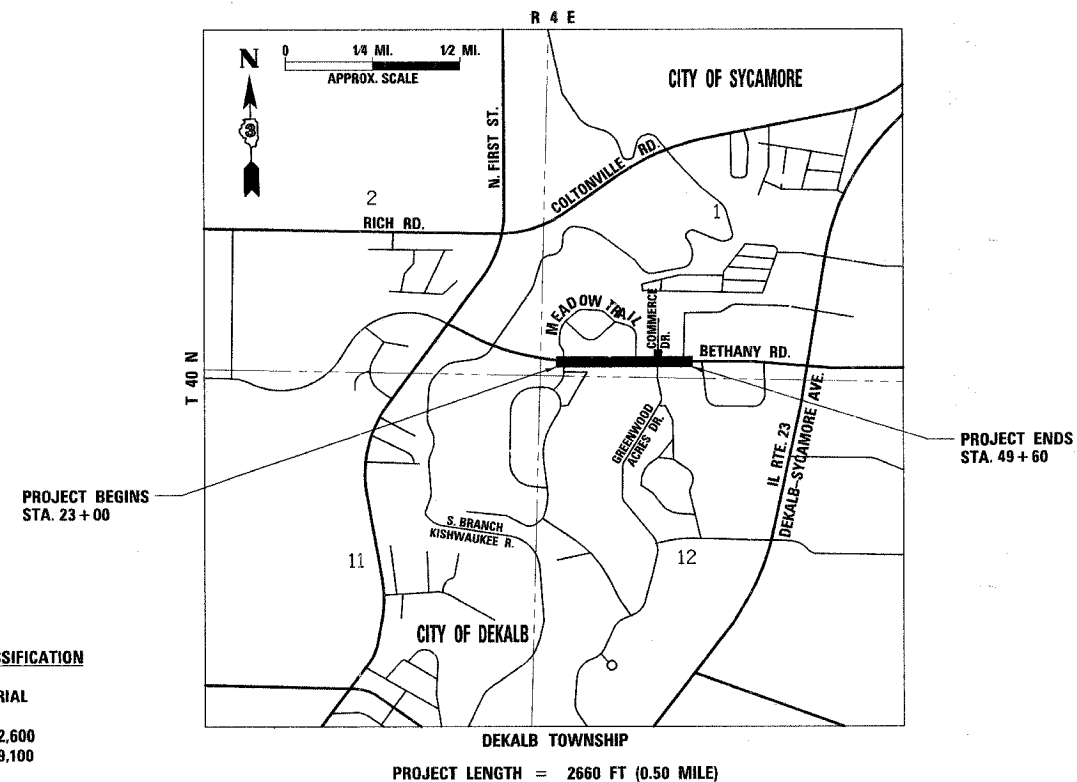
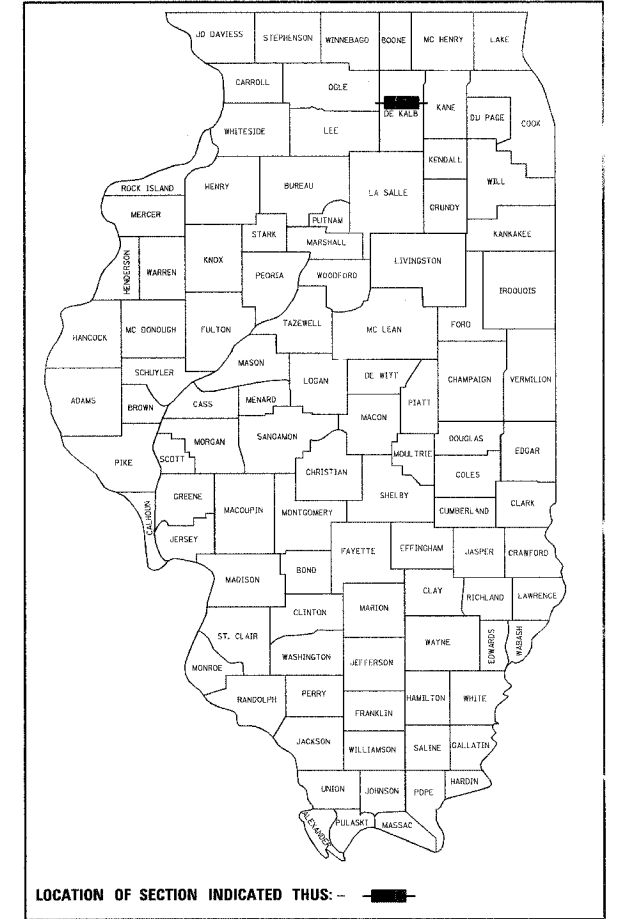
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
5355	04-00167-00-WR	DEKALB	62	1

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS
CITY OF DEKALB, DEKALB COUNTY
**PLANS FOR PROPOSED
FEDERAL AID HIGHWAY**

FAU ROUTE 5355 (BETHANY ROAD)
SECTION: 04-00167-00-WR
PROJECT NO.: M-5017(37)
JOB NO.: C-93-113-06

INDEX OF SHEETS

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- 4-5 SCHEDULE OF QUANTITIES
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- 7 REMOVAL PLAN
- 8-10 TYPICAL SECTIONS
- 11-12 PLAN AND PROFILE
- 13-19 SUGGESTED MAINTENANCE OF TRAFFIC PLAN
- 20 EROSION CONTROL PLAN
- 21-22 DRAINAGE AND UTILITIES
- 23-24 DRAINAGE SCHEDULE
- 25 INTERSECTION DETAIL- FAIRWAY OAKS DR. / MEADOW TRAIL WEST
- 26 INTERSECTION DETAIL- MEADOW TRAIL EAST & COMMERCE DR. / GREENWOOD ACRES DR.
- 27 INTERSECTION DETAIL- RESOURCE PARKWAY
- 28 PAVEMENT MARKING PLAN
- 29-31 TRAFFIC SIGNAL PLANS
- 32-61 CROSS SECTIONS
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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.

DESIGN CLASSIFICATION
MINOR ARTERIAL
ADT (2007): 12,600
ADT (2027): 19,100
P.C.: 96%
S.U.: 2%
M.U.: 2%

PROJECT LENGTH = 2660 FT (0.50 MILE)

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

CONTRACT NO. 87331

AUGUST 17 20 07

 KEVIN M. ANDERSON
 ILLINOIS REG. PROFESSIONAL ENGINEER NO. 062-055652
 EXPIRATION DATE 11-30-2007

RH&A
 Robert H. Anderson & Associates, Inc.
 Consulting Engineers
 Timbers Professional Center
 220 West River Drive, St. Charles, IL 60304
 Phone - 630.584.3530 Fax - 630.584.3047

AGENCY RESPONSIBLE FOR LETTING	
APPROVED	August 17, 2007 JOEL C. MAURER CITY OF DEKALB, CITY ENGINEER
PASSED	August 30, 2007 KENNETH L. FOY DISTRICT 3 ENGINEER OF LOCAL ROADS & STREETS
RELEASING FOR BID BASED ON LIMITED REVIEW	August 20, 2007 GEORGE E. BROWN DEPUTY DIRECTOR OF HIGHWAYS, REGION 2 ENGINEER

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

F.A.I.II RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
5355	04-00167-00-WR	DEKALB	62	2
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

STATE STANDARDS

- 000001-04 STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS
- 424001-04 CURB RAMPS FOR SIDEWALKS
- 442201-02 CLASS C AND D PATCHES
- 542301-01 PRECAST REINFORCED CONCRETE FLARED END SECTION
- 542306-01 PRECAST REINFORCED CONCRETE ELIPTICAL FLARED END SECTION
- 542311 GRATING FOR CONCRETE FLARED END SECTION
- 602101-01 DRAINAGE STRUCTURES, TYPES 1, 2, & 3
- 602301-01 INLET, TYPE A
- 602306-01 INLET, TYPE B
- 602401-01 MANHOLE, TYPE A
- 604001-02 FRAME AND LIDS, TYPE 1
- 604006-02 FRAME AND GRATES, TYPE 3
- 604046-01 FRAME AND GRATES, TYPE 10
- 604051-02 FRAME AND GRATES, TYPE 11
- 604071-03 FRAME AND GRATES, TYPE 20
- 606001-03 CONCRETE CURB AND COMBINATION CONCRETE CURB AND GUTTER
- 701001-01 OFF-RD OPERATIONS, 2L, 2W, MORE THAN 15' AWAY
- 701006-02 OFF-RD OPERATIONS, 2L, 2W, 15' TO 24" FROM PAVEMENT EDGE
- 701011-01 OFF-RD MOVING OPERATIONS, 2L, 2W, DAY ONLY
- 701101-01 OFF-RD OPERATIONS, MULTILANE, 15' TO 24" FROM PAVEMENT EDGE
- 701106-01 OFF-RD OPERATIONS, MULTILANE, MORE THAN 15' AWAY
- 701201-02 LANE CLOSURE, 2L, 2W, DAY ONLY, FOR SPEEDS >= 45 MPH
- 701301-02 LANE CLOSURE, 2L, 2W SHORT TIME OPERATIONS
- 701306-01 LANE CLOSURE, 2L, 2W SLOW MOVING OPERATIONS - DAY ONLY FOR SPEEDS >= 45 MPH
- 701311-02 LANE CLOSURE, 2L, 2W MOVING OPERATIONS - DAY ONLY
- 701326-02 LANE CLOSURE, 2L, 2W, PAVEMENT WIDENING FOR SPEEDS >= 45 MPH
- 701426-02 LANE CLOSURE, MULTILANE, INTERMITTENT OR MOVING OPERATIONS FOR SPEEDS >= 45 MPH
- 701501-03 URBAN LANE CLOSURE, 2L, 2W UNDIVIDED
- 701606-04 URBAN LANE CLOSURE, MULTILANE, 2W WITH MOUNTABLE MEDIAN
- 701701-04 URBAN LANE CLOSURE, MULTILANE INTERSECTION
- 701801-03 LANE CLOSURE MULTILANE 1W OR 2W CROSSWALK OR SIDEWALK CLOSURE
- 702001-06 TRAFFIC CONTROL DEVICES
- 720001 SIGN PANEL MOUNTING DETAILS
- 720006-01 SIGN PANEL ERECTION DETAILS
- 720016-01 MAST ARM MOUNTED STREET NAME SIGNS
- 729001 APPLICATIONS OF TYPES A & B METAL POSTS (FOR SIGNS AND MARKERS)
- 780001-01 TYPICAL PAVEMENT MARKINGS
- 805001 ELECTRICAL SERVICE INSTALLATION DETAILS
- 814001-01 CONCRETE HANDHOLES
- 814006-01 DOUBLE HANDHOLES
- 857001 STANDARD PHASE DESIGNATION DIAGRAMS AND PHASE SEQUENCES
- 862001 UNINTERRUPTABLE POWER SUPPLY (UPS)
- 873001-01 TRAFFIC SIGNAL GROUNDING
- 877001-02 STEEL MAST ARM ASSEMBLY AND POLE
- 877011-02 STEEL COMBINATION MAST ARM ASSEMBLY AND POLE
- 878001-05 CONCRETE FOUNDATION DETAILS
- 880006 TRAFFIC SIGNAL MOUNTING DETAILS
- 886001 DETECTOR LOOP INSTALLATIONS
- 886006 TYPICAL LAYOUTS FOR DETECTION LOOPS

GENERAL NOTES

1. THE THICKNESS OF HMA SHOWN ON THE PLANS IS THE NOMINAL THICKNESS. DEVIATIONS FROM THE NOMINAL THICKNESS WILL BE PERMITTED WHEN SUCH DEVIATIONS OCCUR DUE TO IRREGULARITIES IN THE EXISTING SURFACE OR BASE ON WHICH THE HMA IS PLACED.
2. THE HMA SURFACE OF ALL MAILBOX TURNOUTS, PRIVATE ENTRANCES, COMMERCIAL ENTRANCES, AND SIDE ROADS SHALL BE MADE NEATLY, IN A WORKMANLIKE MANNER, AND SHALL ACCURATELY CONFORM TO THE SHAPES AND DIMENSIONS SHOWN ON THE PLAN DETAILS. IF REQUIRED BY THE ENGINEER, THE CONTRACTOR SHALL BE REQUIRED TO SAW CUT THE HMA SURFACE TO CONFORM TO THE SHAPES AND DIMENSIONS SHOWN ON THE PLAN DETAILS. THIS WORK SHALL BE INCLUDED IN THE COST OF THE HMA SURFACE.
3. THE BASE COURSE WIDENING SHALL BE CARRIED THROUGH ALL ENTRANCES, SIDE ROADS, AND MAILBOX TURNOUTS. EXCEPTIONS WILL BE SHOWN ON THE PLANS.
4. EXCEPT AS NOTED ON THE PLANS, PAVEMENT GRADES SHOWN ARE AT THE TOP OF PAVEMENT SURFACES.
5. BEFORE ORDERING PIPE CULVERTS OR PIPE DRAINS, THE CONTRACTOR SHALL CONSULT THE ENGINEER FOR EXACT LENGTHS.
6. THE ENGINEER WILL BE THE SOLE JUDGE CONCERNING CURING TIME FOR THE VARIOUS HMA LIFTS.
7. FOR STABILIZATION, ALL TYPE III BARRICADES SHALL REQUIRE A MINIMUM OF FOUR SAND BAGS PER BARRICADE.
8. SEEDING SHALL NOT BE PERMITTED AT ANY TIME WHEN THE GROUND IS FROZEN, WET, OR IN AN UNTILLABLE CONDITION. LOCATIONS TO BE SEEDED WILL BE DETERMINED BY THE ENGINEER.
9. ONLY THOSE TREES DESIGNATED BY THE ENGINEER OR LISTED IN THE TREE REMOVAL SCHEDULE SHALL BE REMOVED. THE CONTRACTOR SHALL PROTECT ALL REMAINING TREES FROM DAMAGE DUE TO HIS OPERATIONS.
10. SHORT TERM PAVEMENT MARKING SHALL BE USED TO OUTLINE EXIT AND ENTRANCE RAMPS FOR THE PRIME COAT APPLICATION AND EACH RESURFACING LIFT.
11. FOR NEW CONSTRUCTION, PLACE CURB RAMPS FOR SIDEWALKS (STANDARD 424001) AT ALL LOCATIONS WHERE PROPOSED SIDEWALK ABUTS CURB AT STREET ENTRANCES.
12. ON EXISTING PAVEMENT WHICH MAY BE SUPERELEVATED, THE NEW HMA PAVEMENT SHALL BE BUILT WITH THE SAME SUPERELEVATION UNLESS NEW SUPERELEVATION RATES ARE GIVEN ON THE PLANS.
13. ALL ELEVATIONS REFERRING TO U.S.G.S. MEAN SEA LEVEL DATUM.
14. ABANDONED UNDERGROUND UTILITIES THAT CONFLICT WITH CONSTRUCTION SHALL BE DISPOSED OF OUTSIDE THE LIMITS OF THE RIGHT OF WAY ACCORDING TO ARTICLE 202.03 OF THE STANDARD SPECIFICATIONS AND AS DIRECTED BY THE ENGINEER. THIS WORK WILL NOT BE PAID FOR SEPARATELY, BUT SHALL BE INCLUDED IN THE COST OF EARTH EXCAVATION.
15. ANY REFERENCE TO A STANDARD IN THESE PLANS SHALL BE INTERPRETED TO MEAN THE EDITION AS INDICATED BY THE SUBNUMBER SHOWN IN THE LIST OF STANDARDS INCLUDED IN THESE PLANS.
16. THE WORK REQUIRED TO CONNECT ANY SEWER TO AN EXISTING DRAINAGE STRUCTURE OR PIPE WILL NOT BE PAID FOR SEPARATELY, BUT SHALL BE CONSIDERED AS INCLUDED IN THE CONTRACT UNIT PRICE BID FOR THE SEWER ITEMS.
17. THE FOLLOWING RATES OF APPLICATION HAVE BEEN USED IN CALCULATING PLAN QUANTITIES:

GRANULAR MATERIALS	2.05	TONS / CU YD
BITUMINOUS MAT PRIME COAT	0.08	GAL / SQ YD OR 0.375 GAL / SQ YD
AGGREGATE PRIME COAT	0.002	TONS / SQ YD
HMA RESURFACING	112	LBS / SQ YD / IN
SHORT TERM PAVEMENT MARKING	10	FT / 100 FT OF APPLICATION
MIX FOR CRACKS, JTS & FLGWYS	0.0003	TONS / SQ YD
LEVEL BINDER (HAND METHOD)	0.0005	TONS / SQ YD
SUPPLEMENTAL WATERING	3	GAL / SQ YD / APPLICATION
CALCIUM CHLORIDE	2	LB / SQ YD / APPLICATION
TEMPORARY DITCH CHECKS	5	TONS AGGREGATE
18. WORK REQUIRED FOR SAW CUTS WILL NOT BE PAID FOR SEPARATELY, BUT SHALL BE CONSIDERED AS INCLUDED IN THE CONTRACT UNIT PRICE BID FOR THE HOT-MIX ASPHALT ITEMS.

PLOT DATE = 8/16/2007
 FILE NAME = H:\2007\87331\87331-04-00167-00-WR\87331-04-00167-00-WR.dgn
 PLOT SCALE = NONE
 USER NAME = JUSER

RH&A

Robert H. Anderson & Associates, Inc.
 Consulting Engineers
 Timbers Professional Center
 220 West River Drive, St. Charles, IL 60174
 Phone - 630.584.3530 Fax - 630.584.3047

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
 BETHANY ROAD WIDENING
 FAIRWAY OAKS DRIVE TO RESOURCE PARKWAY
 CITY OF DEKALB
 GENERAL NOTES

SCALE: NONE
 DATE 8/17/07

DRAWN BY KMA
 CHECKED BY BP

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEET NO.
5355	04-00167-00-WR	DEKALB	62
STA.		TO STA.	
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT

SCHEDULE OF EARTHWORK

LOCATION	END AREAS					TOPSOIL		EARTH WORK					ESTIMATED UNSUITABLE UNDERCUT			
	CUT (SF)	EMBANKMENT (STRUCTURAL) (SF)	EMBANKMENT (LOW GRADE) (SF)	TOPSOIL STRIPPING (SF)	TOPSOIL PLACEMENT (SF)	EXCAVATION (CY)	TOPSOIL PLACEMENT (CY)	EXCAVATION (CY)	EMBANKMENT (STRUCTURAL) (CY)	EMBANKMENT (LOW GRADE) (CY)	BALANCE SURPLUS (+) or SHORTAGE (-) (CY)	EARTH EXCAVATION (CY)	BALANCE WASTE (+) or SHORTAGE (-) (CY) ₁	BALANCE WASTE (+) or SHORTAGE (-) (CY) ₂	DEPTH (IN)	VOLUME (CY) ₁
	Allowance for additional unsuitable material encountered:															
23+00.00	0.0	0.0	0.0	0.0	0.0	7.8	6.8	-0.9	7.78	13.52	0.00	-7.69	-0.93	6	0.93	
23+50.00	8.4	14.6	0.0	8.4	7.3	28.2	9.3	11.9	31.76	21.67	0.00	+2.15	+11.85	6	0.93	
24+00.00	25.9	8.8	0.0	22.0	2.7	28.2	9.3	11.9	31.76	21.67	0.00	+2.15	+11.85	6	0.93	
24+50.00	15.2	24.6	0.0	8.9	6.3	28.6	8.3	13.1	38.06	30.93	0.00	-2.39	+13.13	6	3.70	
25+00.00	19.0	29.9	0.0	10.0	6.3	17.5	11.7	1.5	31.67	50.46	0.00	-26.71	+1.46	6	7.41	
25+50.00	20.1	29.9	0.0	10.5	6.1	19.0	11.5	2.8	36.20	55.37	0.00	-28.22	+2.76	6	11.11	
26+00.00	20.8	27.6	0.0	10.4	5.4	19.4	10.7	3.9	37.87	53.24	0.00	-24.84	+3.86	6	14.81	
26+50.00	16.8	22.3	0.0	9.7	4.1	18.6	8.8	5.2	34.81	46.20	0.00	-20.09	+5.16	6	18.52	
27+00.00	17.2	35.9	0.0	12.9	8.2	20.9	11.4	4.3	31.48	53.89	0.00	-30.28	+4.31	6	18.52	
27+50.00	19.8	37.1	0.0	13.1	9.0	24.1	15.9	2.1	34.26	67.59	0.00	-41.90	+2.12	6	18.52	
28+00.00	29.4	22.1	0.0	16.0	11.0	26.9	18.5	1.7	45.56	54.81	0.00	-20.64	+1.69	6	18.52	
28+50.00	0.0	0.0	0.0	0.0	0.0	14.8	10.2	0.9	27.22	20.46	0.00	-0.05	+0.92	6	18.52	
29+00.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.00	0.00	+0.00	+0.00	6	18.52	
29+50.00	30.7	21.7	0.0	15.5	7.6	14.4	7.0	3.7	28.43	20.09	0.00	+1.23	+3.72	6	18.52	
30+00.00	22.1	44.6	0.0	17.5	9.1	30.6	15.5	7.5	48.89	61.39	0.00	-24.72	+7.46	6	18.52	
30+50.00	19.0	57.9	0.0	17.8	9.3	32.7	17.0	7.5	38.06	94.91	0.00	-66.37	+7.48	6	18.52	
31+00.00	18.2	58.1	0.0	18.1	9.5	33.2	17.4	7.5	34.44	107.41	0.00	-81.58	+7.52	6	18.52	
31+50.00	18.6	62.7	2.4	18.9	10.4	34.3	18.4	7.3	34.07	111.85	2.22	-86.30	+5.05	6	18.52	
32+00.00	18.2	62.9	2.6	19.0	10.5	35.1	19.4	7.0	34.07	116.30	4.63	-90.75	+2.34	6	18.52	
32+50.00	22.8	58.3	2.2	19.4	10.9	35.6	19.8	6.9	37.96	112.22	4.44	-83.75	+2.42	6	18.52	
33+00.00	22.5	56.7	2.3	18.9	10.3	35.5	19.6	7.0	41.94	106.48	4.17	-75.03	+2.80	6	24.07	
33+50.00	21.2	59.5	2.3	19.3	10.8	35.4	19.5	7.0	40.46	107.59	4.26	-77.25	+2.73	6	24.07	
34+00.00	19.3	77.6	3.4	19.2	11.5	35.7	20.7	6.1	37.50	128.94	5.28	-98.82	+0.81	6	24.07	
34+50.00	18.6	84.4	3.4	19.6	11.9	35.9	21.7	5.3	35.09	131.48	34.91	-105.16	-29.63	6	24.07	
35+00.00	22.4	78.2	3.8	23.1	14.7	39.5	24.6	5.0	37.96	132.04	67.22	-103.57	-62.20	6	24.07	
35+50.00	19.9	91.9	4.3	22.1	14.0	41.9	26.6	4.8	39.17	157.50	75.83	-128.12	-71.01	6	24.07	
36+00.00	19.2	53.9	4.7	22.1	14.7	40.9	26.6	4.1	36.20	135.00	84.63	-107.85	-80.50	6	24.07	
36+50.00	9.6	110.0	108.3	25.5	18.2	45.0	30.5	3.3	26.67	151.76	144.54	-131.76	-141.25	6	24.07	
37+00.00	12.7	59.2	51.3	21.5	13.5	44.4	29.4	4.0	20.65	156.67	147.78	-141.19	-143.80	6	24.07	
37+50.00	15.4	37.6	37.6	19.9	11.7	38.3	23.3	5.4	26.02	89.81	82.31	-70.30	-76.89	6	24.07	
38+00.00	14.0	82.6	44.6	20.8	12.6	37.7	22.5	5.8	27.22	111.48	76.11	-91.07	-70.34	6	24.07	
38+50.00	14.0	89.6	35.0	23.2	15.0	40.7	25.6	5.0	25.93	159.44	73.70	-159.99	-68.71	6	24.07	
39+00.00	20.2	80.3	0.0	20.1	12.7	40.1	25.7	4.4	31.67	157.31	32.41	-133.56	-27.99	6	24.07	
39+50.00	8.1	68.3	0.0	13.9	8.4	31.5	19.5	4.1	26.20	137.59	0.00	-117.94	+4.07	6	24.07	
40+00.00	8.9	42.8	0.0	10.2	4.6	22.3	12.0	4.7	15.74	102.87	0.00	-91.07	+4.69	6	24.07	
40+50.00	25.0	74.5	0.0	19.3	10.9	27.3	14.4	6.1	31.39	108.61	0.00	-85.07	+6.13	6	24.07	
41+00.00	21.6	43.9	0.0	15.8	7.3	32.5	16.9	7.5	43.15	109.63	0.00	-77.27	+7.53	6	24.07	
41+50.00	24.8	40.4	0.0	19.0	10.3	32.2	16.3	7.9	42.96	70.06	0.00	-45.84	+7.87	6	24.07	
42+00.00	30.4	31.4	0.0	14.7	5.6	31.2	14.7	8.7	51.11	66.48	0.00	-28.15	+8.68	6	24.07	
42+50.00	33.5	32.3	0.0	10.7	6.3	23.5	11.0	6.6	59.17	58.98	0.00	-14.60	+6.62	6	24.07	
43+00.00	0.0	0.0	0.0	0.0	0.0	9.9	5.8	1.6	31.02	29.91	0.00	-6.65	+1.60	6	24.07	
43+50.00	30.7	34.0	0.0	16.8	13.0	15.6	12.0	-0.4	28.43	31.48	0.00	-10.16	-0.37	6	24.07	
44+00.00	23.7	26.2	0.0	16.0	26.2	30.4	20.6	2.2	50.37	55.74	0.00	-17.96	+2.22	6	24.07	
44+50.00	22.5	27.6	0.0	16.3	9.3	29.9	17.1	5.3	42.78	49.81	0.00	-17.73	+5.30	6	24.07	
45+00.00	7.6	40.1	0.1	15.8	10.7	29.7	18.5	3.8	27.87	62.69	0.09	-41.79	+3.68	6	24.07	
45+50.00	22.5	39.5	0.0	17.5	11.1	30.8	20.2	2.9	27.87	73.70	0.09	-52.80	+2.84	6	24.07	
46+00.00	23.9	28.8	0.0	14.9	30.0	18.8	18.8	3.7	42.96	63.24	0.00	-31.02	+3.70	6	24.07	
46+50.00	26.8	25.9	0.0	14.2	10.3	26.9	18.1	2.1	46.94	50.65	0.00	-15.45	+2.15	6	24.07	
47+00.00	7.1	18.3	0.0	5.9	5.4	18.6	14.5	-0.6	31.39	40.93	0.00	-17.39	-0.58	6	24.07	
47+50.00	6.4	20.8	0.0	5.8	5.8	10.8	10.4	-2.2	12.50	36.20	0.00	-26.83	-2.25	6	24.07	
48+00.00	9.5	18.8	0.0	9.2	14.3	14.3	13.9	-3.2	14.72	36.67	0.00	-25.63	-3.20	6	24.07	
48+50.00	18.3	13.6	0.0	8.1	7.6	16.4	15.6	-3.3	25.74	30.00	0.00	-10.70	-3.27	6	24.07	
49+00.00	17.7	5.4	0.0	8.8	5.8	15.7	12.4	-0.7	33.33	17.59	0.00	+7.41	-0.67	6	24.07	
49+50.00	12.6	3.0	0.0	4.9	4.8	12.7	9.8	-0.3	28.06	7.78	0.00	+13.27	-0.29	6	24.07	
TOTAL																
SHRINKAGE FACTOR	25%	TOTAL														
PAY ITEM(S)						21101505	866	217	1,753	4,064	845	-2,750	-627	1,700		
Available for Low Grade Emb.																
20200100																
N/A																
N/A																
20400800																
20400800																
20201200																
20700420																

SCHEDULE OF LEVELLING BINDER, N70

LOCATION	END AREA (SF)	VOLUME (CY)	WEIGHT (TON)
23+00	0.0		
23+50	2.8	2.59	5.22
24+00	3.9	6.20	12.50
24+50	4.9	8.15	16.43
25+00	3.0	7.31	14.74
25+50	4.1	6.57	13.25
26+00	6.3	3.70	9.63
26+50	12.8	17.69	35.66
27+00	10.0	21.11	42.56
27+50	9.0	17.59	35.46
28+00	8.1	15.83	31.91
28+50	19.8	25.83	52.07
29+00	17.1	34.17	68.89
29+50	7.5	22.78	45.92
30+00	8.3	14.63	29.49
30+50	10.4	17.31	34.90
31+00	10.2	19.07	38.45
31+50	10.5	19.17	38.65
32+00	10.9	19.81	39.94
32+50	7.0	16.57	33.41
33+00	5.6	11.67	23.53
33+50	7.5	12.13	24.45
34+00	9.9	16.11	32.48
34+50	10.4	18.80	37.90
35+00	10.1	18.98	38.26
35+50	12.2	20.65	41.63
36+00	15.1	25.28	50.96
36+50	17.0	29.72	59.92
37+00	17.2	31.67	63.85
37+50	13.8	28.70	57.86
38+00	12.6	24.44	49.27
38+50	12.9	23.61	47.60
39+00	13.2	24.17	48.73
39+50	16.9	27.87	56.19
40+00	16.7	31.11	62.72
40+50	7.4	22.31	44.98
41+00	9.8	15.93	32.11
41+50	9.7	17.13	34.53
42+00	8.4	15.83	31.91
42+50	9.3	16.39	33.04
43+00	21.9	28.89	58.24
43+50	12.6	31.94	64.39
44+00	14.7	25.28	50.96
44+50	14.9	27.41	55.26
45+00	14.6	27.31	55.06
45+50	12.8	2	

Table with columns: F.A.U. RTE., SECTION, COUNTY, TOTAL SHEETS, SHEET NO. Values: 5355, 04-00167-00-WR, DEKALB, 62, 5.

SCHEDULE OF CONCRETE CURB AND GUTTER

Table with columns: LOCATION, DESCRIPTION, LENGTH (FT). Lists various curb and gutter locations with descriptions like 'B6.12' and 'B6.12 (RADIUS)'.

SCHEDULE OF PAVEMENT MARKING QUANTITIES

Table with columns: LOCATION, DESCRIPTION, LENGTH (FT), PAY LENGTH (FT). Includes sub-sections for 'STAGE I', 'STAGE II', 'STAGE III', and 'STAGE IV'.

SCHEDULE OF PCC SIDEWALKS

Table with columns: LOCATION, DESCRIPTION, AVE. WIDTH (FT), LENGTH (FT), AREA (SQ FT), DETECTABLE WARNINGS (SQ FT).

SCHEDULE OF SEEDING AND SODDING

Table with columns: LOCATION, DESCRIPTION, MEASURED AREA (SF). Lists seeding and sodding locations and materials like 'Mainline', 'Corner', 'FERTILIZER', 'NUTRIANTS'.

SCHEDULE OF SHORT TERM PAVEMENT MARKINGS

Table with columns: LOCATION, DESCRIPTION, LENGTH (FT), PAY LENGTH (FT). Lists short-term pavement marking locations and descriptions.

SCHEDULE OF SIDEWALK REMOVAL

Table with columns: LOCATION, DESCRIPTION, AREA (SF). Lists sidewalk removal locations and descriptions.

SCHEDULE OF CURB AND GUTTER REMOVAL

Table with columns: LOCATION, DESCRIPTION, LENGTH (FT). Lists curb and gutter removal locations and descriptions.

SCHEDULE OF TEMPORARY PAVEMENT MARKINGS

Table with columns: LOCATION, DESCRIPTION, LENGTH (FT), PAY LENGTH (FT). Includes sub-sections for 'STAGE I', 'STAGE II', 'STAGE III', 'STAGE IV', 'STAGE V'.

SCHEDULE OF SIGNAGE (PERMANENT, EXCL. TRAFFIC SIGNAL MOUNTED SIGNS)

Table with columns: DESCRIPTION, LOCATION, WIDTH (IN.), LENGTH (IN.), PANEL TYPE I (S.F.), SIGN SUPPORT (FOOT).

SCHEDULE OF BITUMINOUS PAVEMENT REMOVAL

Table with columns: LOCATION, DESCRIPTION, AVE. WIDTH (FT), LENGTH (FT), AREA (SQ YD), BUTT JOINT (SQ YD), VAR. DEPTH (SQ YD), 2-1/4" (SQ YD).

SCHEDULE OF DRIVEWAY PAVEMENT REMOVAL

Table with columns: LOCATION, DESCRIPTION, AREA (SQ YD). Lists driveway pavement removal locations and descriptions.

REVISIONS

Table with columns: NAME, DATE. Revision tracking table.

ILLINOIS DEPARTMENT OF TRANSPORTATION BETHANY ROAD WIDENING FAIRWAY OAKS DRIVE TO RESOURCE PARKWAY CITY OF DEKALB SCHEDULES OF QUANTITIES SHEET 2 OF 2

SCALE: NONE DRAWN BY: KMA DATE: 8/11/07 CHECKED BY: BP



Robert H. Anderson & Associates, Inc. Consulting Engineers 220 West River Drive, St. Charles, IL 60174 Phone - 630.584.3530 Fax - 630.584.3047

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
5355	04-00167-00-WR	DEKALB	62	6
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

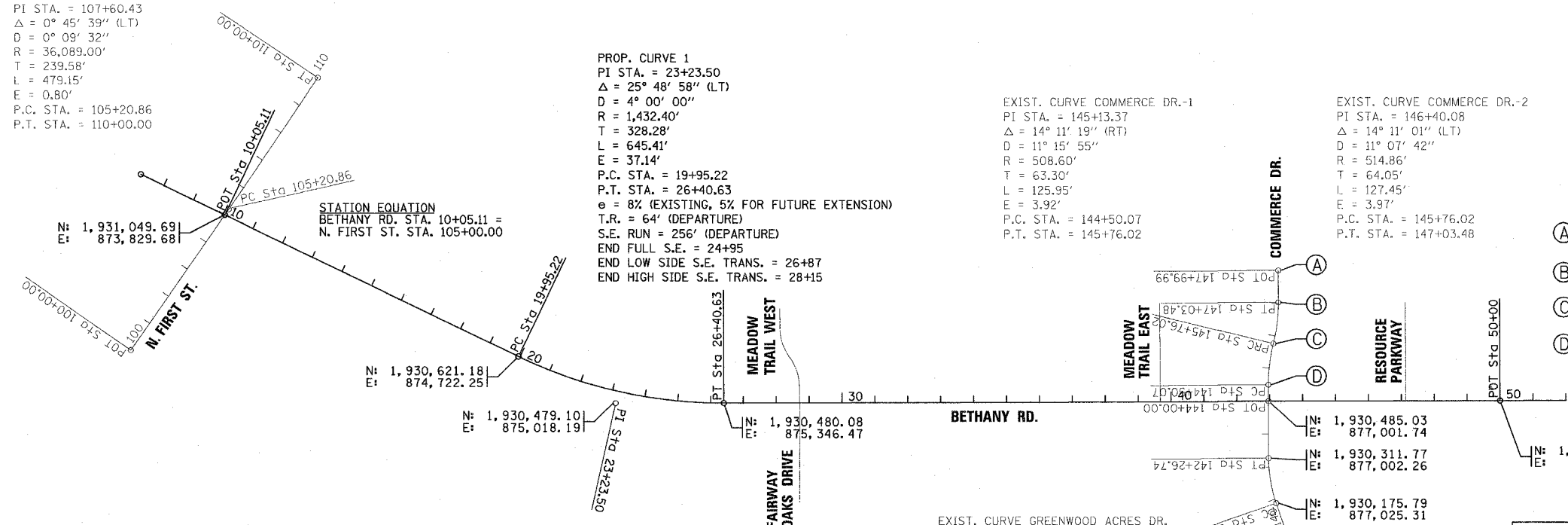
EXIST. N. FIRST ST. CURVE
 PI STA. = 107+60.43
 $\Delta = 0^\circ 45' 39''$ (LT)
 $D = 0^\circ 09' 32''$
 $R = 36,089.00'$
 $T = 239.58'$
 $L = 479.15'$
 $E = 0.80'$
 P.C. STA. = 105+20.86
 P.T. STA. = 110+00.00

PROP. CURVE 1
 PI STA. = 23+23.50
 $\Delta = 25^\circ 48' 58''$ (LT)
 $D = 4^\circ 00' 00''$
 $R = 1,432.40'$
 $T = 328.28'$
 $L = 645.41'$
 $E = 37.14'$
 P.C. STA. = 19+95.22
 P.T. STA. = 26+40.63
 $e = 8\%$ (EXISTING, 5% FOR FUTURE EXTENSION)
 T.R. = 64' (DEPARTURE)
 S.E. RUN = 256' (DEPARTURE)
 END FULL S.E. = 24+95
 END LOW SIDE S.E. TRANS. = 26+87
 END HIGH SIDE S.E. TRANS. = 28+15

EXIST. CURVE COMMERCE DR.-1
 PI STA. = 145+13.37
 $\Delta = 14^\circ 11' 19''$ (RT)
 $D = 11^\circ 15' 55''$
 $R = 508.60'$
 $T = 63.30'$
 $L = 125.95'$
 $E = 3.92'$
 P.C. STA. = 144+50.07
 P.T. STA. = 145+76.02

EXIST. CURVE COMMERCE DR.-2
 PI STA. = 146+40.08
 $\Delta = 14^\circ 11' 01''$ (LT)
 $D = 11^\circ 07' 42''$
 $R = 514.86'$
 $T = 64.05'$
 $L = 127.45'$
 $E = 3.97'$
 P.C. STA. = 145+76.02
 P.T. STA. = 147+03.48

(A)	N: 1,930,882.53
	E: 877,031.78
(B)	N: 1,930,786.02
	E: 877,032.06
(C)	N: 1,930,659.82
	E: 877,016.74
(D)	N: 1,930,535.11
	E: 877,001.59



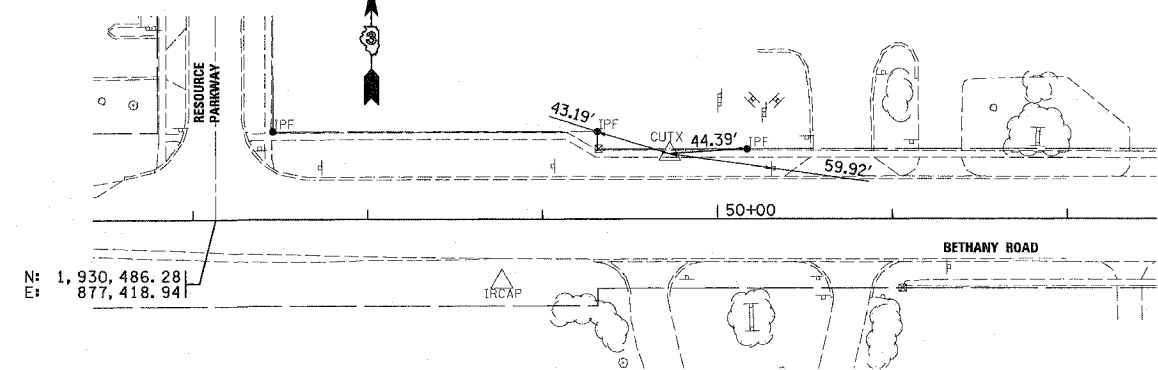
BENCHMARKS

CHISELED SQUARE ON THE BASE OF THE TRAFFIC SIGNAL POLE ON THE SOUTHEAST CORNER OF BETHANY RD. AND NORTH FIRST ST.
 ELEV. = 839.74

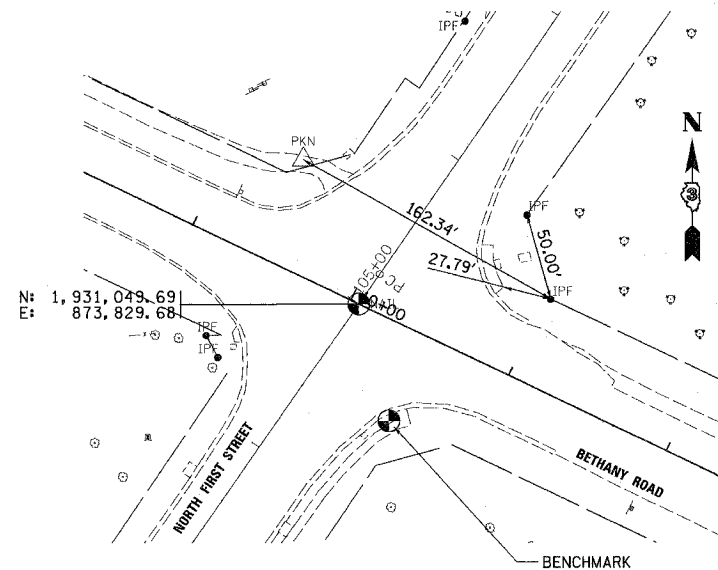
F.E.M.A. R.M. 13; NORTH BOLT OF THE FIRE HYDRANT ON THE SOUTH SIDE OF STONEY CREEK RD. AT THE END OF THE STREET APPROXIMATELY 1/2 MILE SOUTH ON NORTH FIRST ST.
 ELEV. = 840.35

EXIST. CURVE GREENWOOD ACRES DR.
 PI STA. = 141+58.10
 $\Delta = 18^\circ 54' 03''$ (RT)
 $D = 13^\circ 38' 31''$
 $R = 420.00'$
 $T = 69.91'$
 $L = 138.55'$
 $E = 5.78'$
 P.C. STA. = 140+88.19
 P.T. STA. = 142+26.74

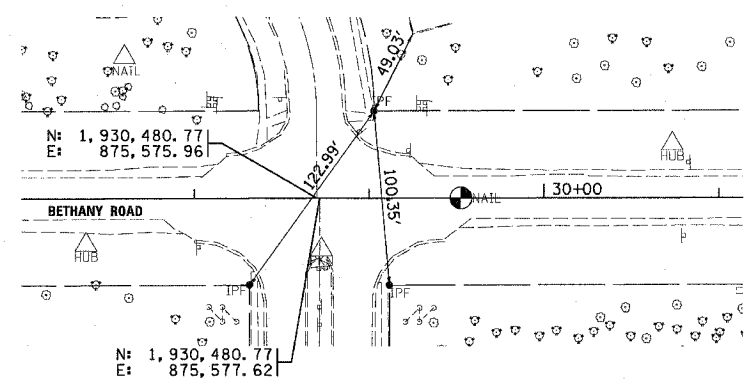
STATION EQUATION
 BETHANY RD. STA. 42+95.91 =
 COMMERCE DR. STA. 144+00.00



SITE CONTROL
 CHISELED "X" IN S.W.
 N: 1,930,524.26
 E: 877,678.64
 EL: 855.27
 STA.: 49+72.92
 OFF: 37.20 LT.



SITE CONTROL
 IRON PIPE (FOUND)
 N: 1,931,052.47
 E: 873,939.42
 EL: 839.73
 STA.: 11+02.84
 OFF: 50.01' LT.



N: 1,930,480.77
 E: 875,575.96

SITE CONTROL
 IRON PIPE (FOUND)
 N: 1,930,530.87
 E: 875,608.81
 EL: 842.04
 STA.: 29+03.12
 OFF: 50.00' LT.

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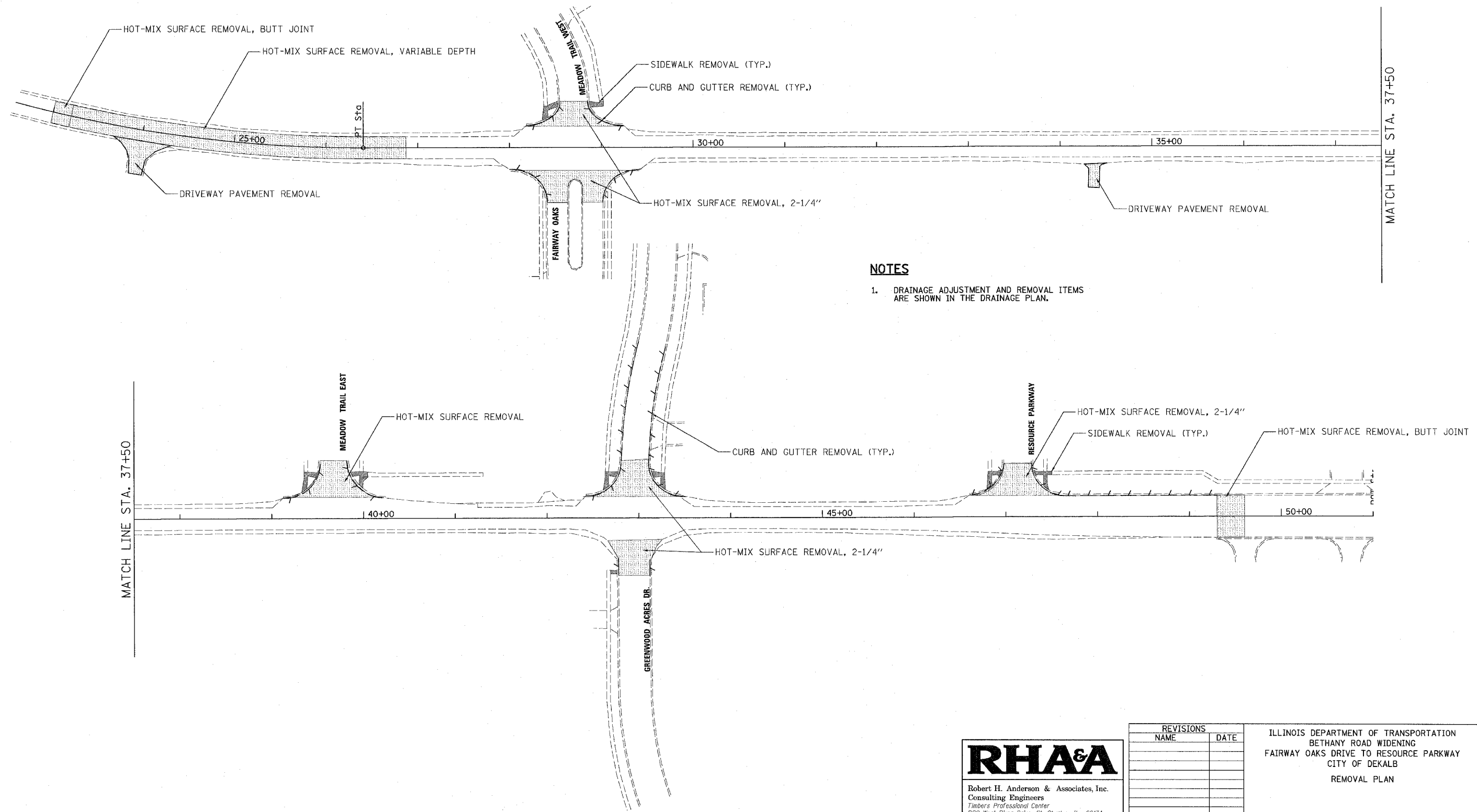
REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
 BETHANY ROAD WIDENING
 FAIRWAY OAKS DRIVE TO RESOURCE PARKWAY
 CITY OF DEKALB
 ALIGNMENT, TIES, &
 BENCHMARKS

SCALE: N.T.S.
 DATE 8/17/07
 DRAWN BY KMA
 CHECKED BY BP

PLT DATE = 8/16/08
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 USER NAME = JUSER

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
5355	04-00167-00-WR	DEKALB	62	7
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		



NOTES

1. DRAINAGE ADJUSTMENT AND REMOVAL ITEMS ARE SHOWN IN THE DRAINAGE PLAN.

PLOT DATE = 8/16/2007
 FILE NAME = H:\DeKalb\167283-BethanyRd\Draw1\Draw\Sheet\RM01.dgn
 PLOT SCALE = 1"=50'
 USER NAME = USER

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REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
 BETHANY ROAD WIDENING
 FAIRWAY OAKS DRIVE TO RESOURCE PARKWAY
 CITY OF DEKALB
 REMOVAL PLAN

SCALE: 1"=50'
 DATE: 8/17/07

DRAWN BY: KMA
 CHECKED BY: TC

F.A.U. RTE. 1	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
5355 D4-00167-00-WR	DEKALB	62	9	
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

LEGEND, EXISTING

- (A) EXISTING GROUND
- (B) EXISTING BIT. CONC. PAVEMENT, CLASS I, 11"
- (C) EXISTING B.A.M., 6"
- (D) EXISTING LIME STABILIZED SOIL, 6"
- (E) EXISTING AGG. SHOULDER
- (F) EXISTING TY. B6.12 C&G (TO BE REMOVED)
- (G) EXISTING P.C.C. SIDEWALK (TO REMAIN)

LEGEND, PROPOSED

- (1) PROPOSED GROUND
- (2) HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N70, 2-1/4"
- (3) HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N70, 8-3/4"
- (4) LEVELING BINDER, N70, DEPTH VARIES 2" TO 6" (+/-)
- (5) AGGREGATE SHOULDER, 6" (TYPE A)
- (6) TYPE B6.12 CURB AND GUTTER (9" DEPTH)
- (7) AGGREGATE SUBGRADE, 12"
- (8) POROUS GRANULAR EMBANKMENT, VARIES (SEE EST. UNDERCUT TABLE)
- (9) FURNISHED EXCAVATION
- (10) TOPSOIL PLACEMENT, 4" / SEEDING / MULCH
- (11) TOPSOIL UNDERCUT, 4"
- (12) HOT-MIX ASPHALT SURFACE COURSE, BIKE PATH, MIX "C", N50, 3"
- (13) AGG. BASE, BIKE PATH, 6"
- (14) PCC SIDEWALK, 5"
- (15) STRIP CRACK CONTROL TREATMENT, SYSTEM A
- (16) PAVEMENT MILLING, VAR. DEPTH (2", OVERLAY < 4"; 0", OVERLAY > 6")
- (17) SUBBASE GRANULAR MATERIAL TYPE B, 4"

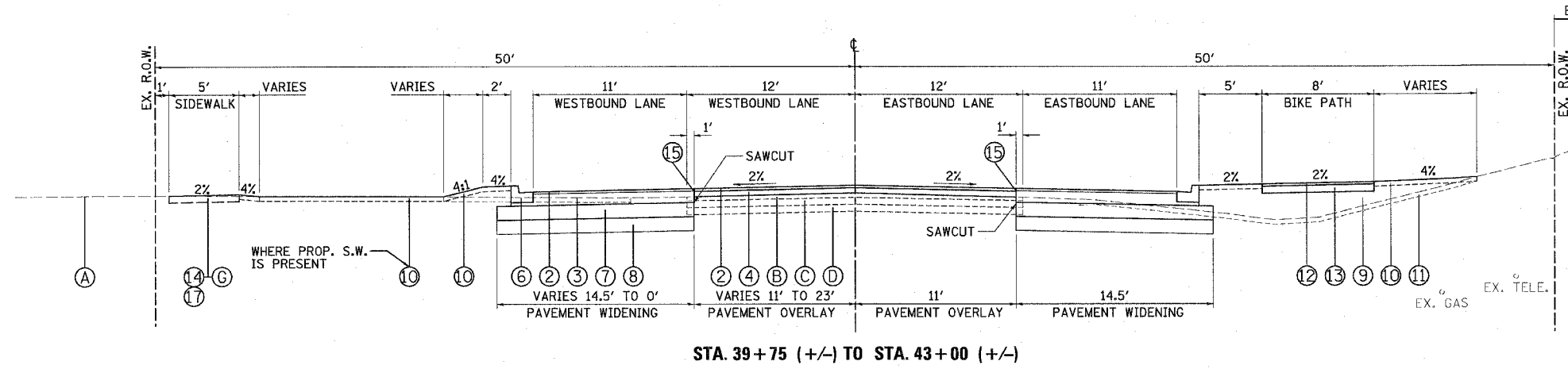
STRUCTURAL DESIGN TRAFFIC: 2017

PV= 16,320
 SU= 340
 MU= 340

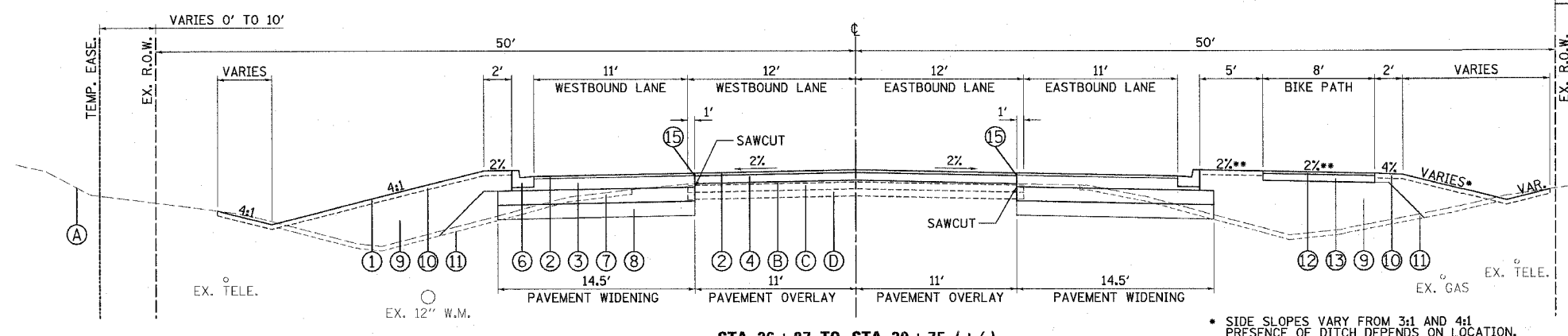
CLASSIFICATION: I
 TRAFFIC FACTOR: 1.9
 AC TYPE: HMA
 PG GRADE: PG 64-28
 SSR: POOR

	HMA BINDER	HMA LEVELLING BINDER	HMA SURFACE	HMA BASE COURSE (DRIVEWAYS)	HMA SURFACE FOR DRIVEWAYS & BIKE PATH
PG GRADE	PG64-22	PG64-22	PG64-22	PG58-22	PG64-22
MAX. % RAP ALLOWABLE **	15%	15%	10%	25%	15%
DESIGN AIR Voids	4.0% @ N70	4.0% @ N70	4.0% @ N70	4.0% @ N50	4.0% @ N50
MIXTURE COMPOSITION	IL 19.0	IL 9.5	IL 12.5 OR IL 9.5	IL 19.0	IL 12.5 OR IL 19.0
FRICION AGGREGATE	NUCLEAR/ CORES	SATISFACTION OF ENGINEER	MIXTURE D NUCLEAR/ CORES	NUCLEAR/ CORES	MIXTURE C SATISFACTION OF ENGINEER
DENSITY TEST METHOD	NUCLEAR/ CORES	SATISFACTION OF ENGINEER	MIXTURE D NUCLEAR/ CORES	NUCLEAR/ CORES	MIXTURE C SATISFACTION OF ENGINEER

** IF RAP OPTION IS SELECTED, THE ASPHALT CEMENT GRADE MAY NEED TO BE ADJUSTED. THIS WILL BE DETERMINED BY THE ENGINEER.

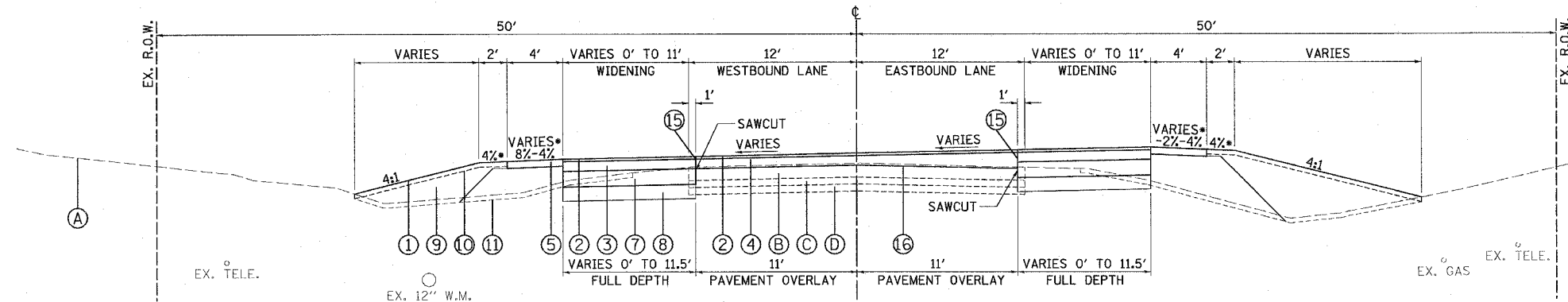


STA. 39+75 (+/-) TO STA. 43+00 (+/-)



STA. 26+87 TO STA. 39+75 (+/-)

* SIDE SLOPES VARY FROM 3:1 AND 4:1 PRESENCE OF DITCH DEPENDS ON LOCATION.
 ** DIRECTION OF FLOW DEPENDS ON LOCATION.



STA. 23+00 TO STA. 26+87

* THE SUPER ELEVATION RATE VARIES FROM 8% AT THE BEGINNING TO 2% AT STA. 26+87. THE LEFT SHOULDER AND GROUND SLOPE MATCHES THE PAVEMENT SLOPE WHERE IT IS LESS THAN 4%. THE RIGHT SHOULDER MAXIMUM ROLLOVER FACTOR IS 8% WITH A MINIMUM MAGNITUDE OF 2%. THEREFORE, THE RIGHT SHOULDER SLOPE VARIES FROM -2% TO 4%.

EST. UNDERCUT TABLE

LOCATION	DEPTH
STA. 23+50 TO STA. 26+50	6"
STA. 32+50 TO STA. 44+00	6"
ELSEWHERE	0"

RH&A

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 Timbers Professional Center
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REVISIONS

NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
 BETHANY ROAD WIDENING
 FAIRWAY OAKS DRIVE TO RESOURCE PARKWAY
 CITY OF DEKALB

PROPOSED TYPICAL SECTIONS
 BETHANY ROAD

SCALE: N.T.S.
 DATE: 8/17/07

DRAWN BY: KMA
 CHECKED BY: BP

PLOT DATE = 8/16/2007
 FILE NAME = H:\06\0615\57209-Bethany\0615\11062.dgn
 PLOT SCALE = N.T.S.
 USER NAME = J0615

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
5355	04-00167-00-WR	DEKALB	62	10
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

LEGEND, EXISTING

- (A) EXISTING GROUND
- (B) EXISTING BIT. CONC. PAVEMENT, CLASS I, 11"
- (C) EXISTING B.A.M., 6"
- (D) EXISTING LIME STABILIZED SOIL, 6"
- (E) EXISTING AGG. SHOULDER
- (F) EXISTING TY. B6.12 C&G (TO BE REMOVED)
- (G) EXISTING P.C.C. SIDEWALK (TO REMAIN)

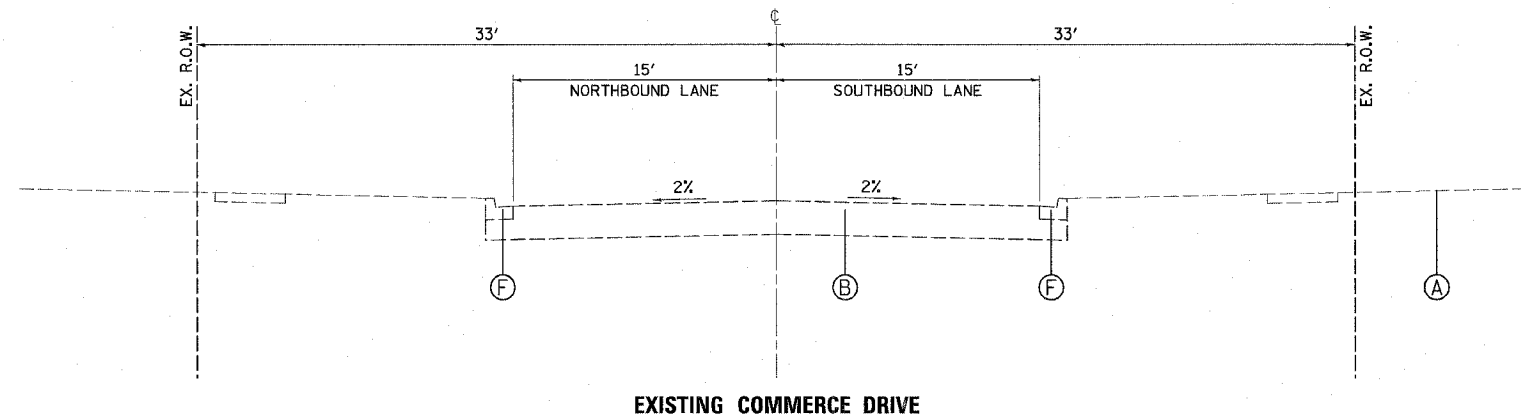
LEGEND, PROPOSED

- (1) PROPOSED GROUND
- (2) HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N70, 2-1/4"
- (3) HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N70, 8-3/4"
- (4) LEVELING BINDER, N70, DEPTH VARIES 2" TO 6" (+/-)
- (5) AGGREGATE SHOULDER, 6" (TYPE A)
- (6) TYPE B6.12 CURB AND GUTTER (9" DEPTH)
- (7) AGGREGATE SUBGRADE, 12"
- (8) POROUS GRANULAR EMBANKMENT, VARIES (SEE EST. UNDERCUT TABLE)
- (9) FURNISHED EXCAVATION
- (10) TOPSOIL PLACEMENT, 4" / SEEDING / MULCH
- (11) TOPSOIL UNDERCUT, 4"
- (12) HOT-MIX ASPHALT SURFACE COURSE, BIKE PATH, MIX "C", N50, 3"
- (13) AGG. BASE, BIKE PATH, 6"
- (14) PCC SIDEWALK, 5"
- (15) STRIP CRACK CONTROL TREATMENT, SYSTEM A
- (16) PAVEMENT MILLING, VAR. DEPTH (2", OVERLAY < 4"; 0", OVERLAY > 6")
- (17) SUBBASE GRANULAR MATERIAL TYPE B, 4"

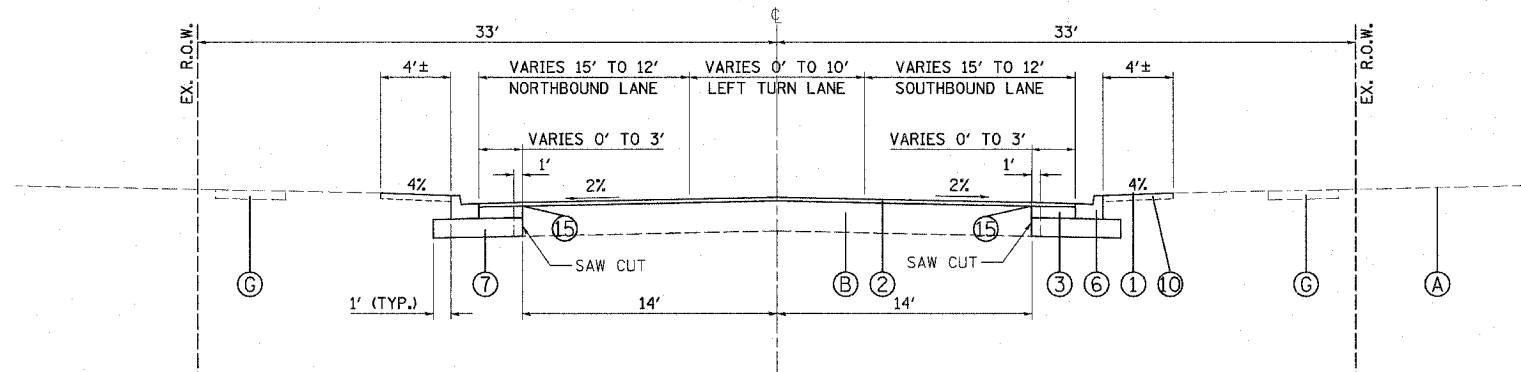
STRUCTURAL DESIGN TRAFFIC: 2017
 PV= 16,320
 SU= 340
 MU= 340
 CLASSIFICATION: I
 TRAFFIC FACTOR: 1.9
 AC TYPE: HMA
 PG GRADE: PG 64-28
 SSR: POOR

	HMA BINDER	HMA LEVELLING BINDER	HMA SURFACE	HMA BASE COURSE (DRIVEWAYS)	HMA SURFACE FOR DRIVEWAYS & BIKE PATH
PG GRADE	PG64-22	PG64-22	PG64-22	PG58-22	PG64-22
MAX. % RAP ALLOWABLE **	15%	15%	10%	25%	15%
DESIGN AIR VOIDS	4.0% @ N70	4.0% @ N70	4.0% @ N70	4.0% @ N50	4.0% @ N50
MIXTURE COMPOSITION	IL 19.0	IL 9.5	IL 12.5 OR IL 9.5	IL 19.0	IL 12.5 OR IL 19.0
FRICTION					
AGGREGATE DENSITY TEST METHOD	NUCLEAR/ CORES	SATISFACTION OF ENGINEER	MIXTURE D NUCLEAR/ CORES	NUCLEAR/ CORES	MIXTURE C SATISFACTION OF ENGINEER

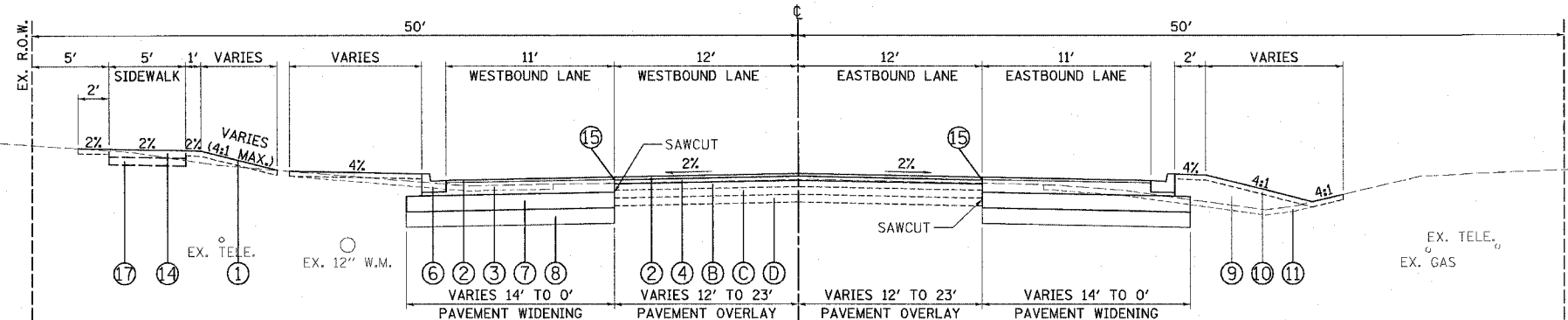
** IF RAP OPTION IS SELECTED, THE ASPHALT CEMENT GRADE MAY NEED TO BE ADJUSTED. THIS WILL BE DETERMINED BY THE ENGINEER.



EXISTING COMMERCE DRIVE



PROPOSED COMMERCE DRIVE
 STA. 144+60 (+/-) TO STA. 145+91 (+/-)



STA. 43+00 TO STA. 46+60

EST. UNDERCUT TABLE

LOCATION	DEPTH
STA. 23+50 TO STA. 26+50	6"
STA. 32+50 TO STA. 44+00	6"
ELSEWHERE	0"

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REVISIONS

NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
 BETHANY ROAD WIDENING
 FAIRWAY OAKS DRIVE TO RESOURCE PARKWAY
 CITY OF DEKALB
 PROPOSED TYPICAL SECTIONS
 BETHANY ROAD
 & COMMERCE DRIVE

SCALE: N.T.S. DRAWN BY KMA
 DATE 8/17/07 CHECKED BY BP

F.A.I.D. R.T.E.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
5355	04-00167-00-WR	DEKALB	62	11
STA. 21+50		TO STA. 35+50		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

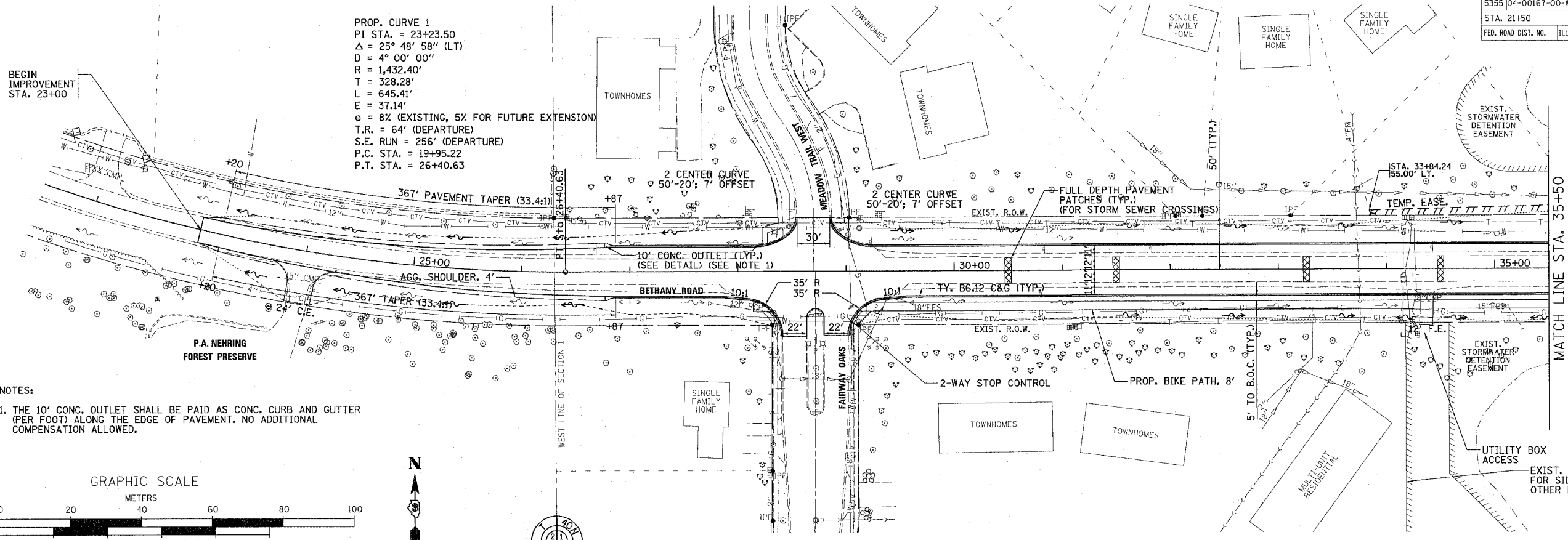
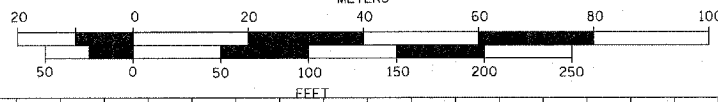
PROP. CURVE 1
 PI STA. = 23+23.50
 $\Delta = 25^\circ 48' 58''$ (LT)
 $D = 4^\circ 00' 00''$
 $R = 1,432.40'$
 $T = 328.28'$
 $L = 645.41'$
 $E = 37.14'$
 $e = 8\%$ (EXISTING, 5% FOR FUTURE EXTENSION)
 $T.R. = 64'$ (DEPARTURE)
 $S.E. RUN = 256'$ (DEPARTURE)
 $P.C. STA. = 19+95.22$
 $P.T. STA. = 26+40.63$

BEGIN IMPROVEMENT STA. 23+00

NOTES:

1. THE 10' CONC. OUTLET SHALL BE PAID AS CONC. CURB AND GUTTER (PER FOOT) ALONG THE EDGE OF PAVEMENT. NO ADDITIONAL COMPENSATION ALLOWED.

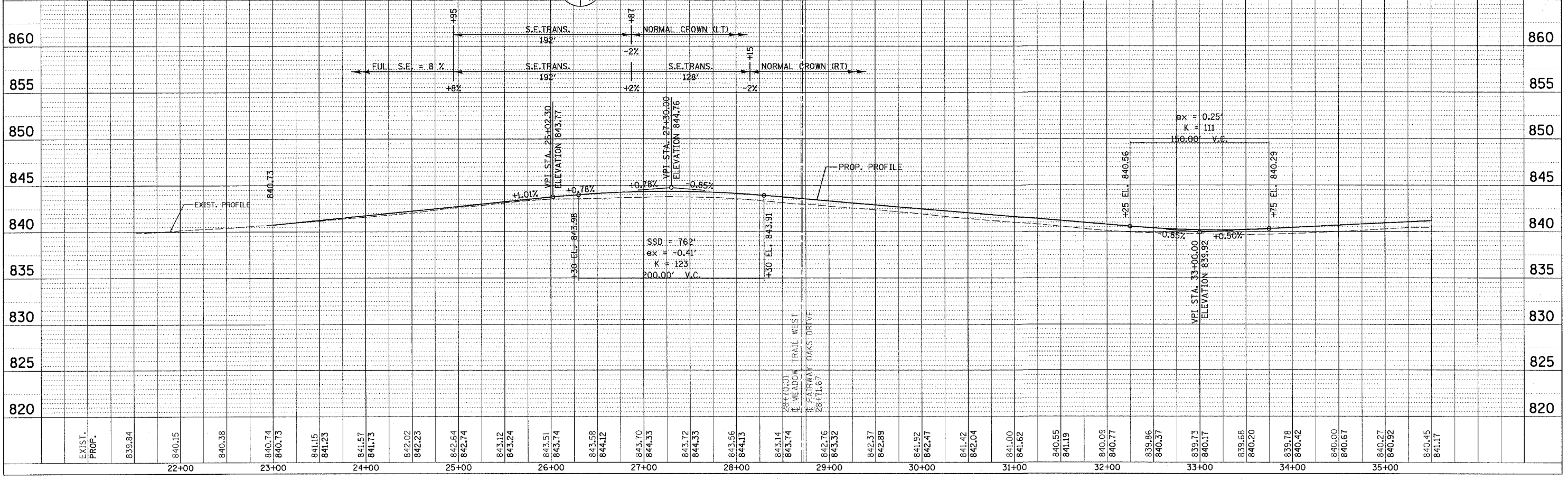
GRAPHIC SCALE



PLAN	SURVEYED	BY	DATE
	NOTED		
	CHECKED		
	DATE		

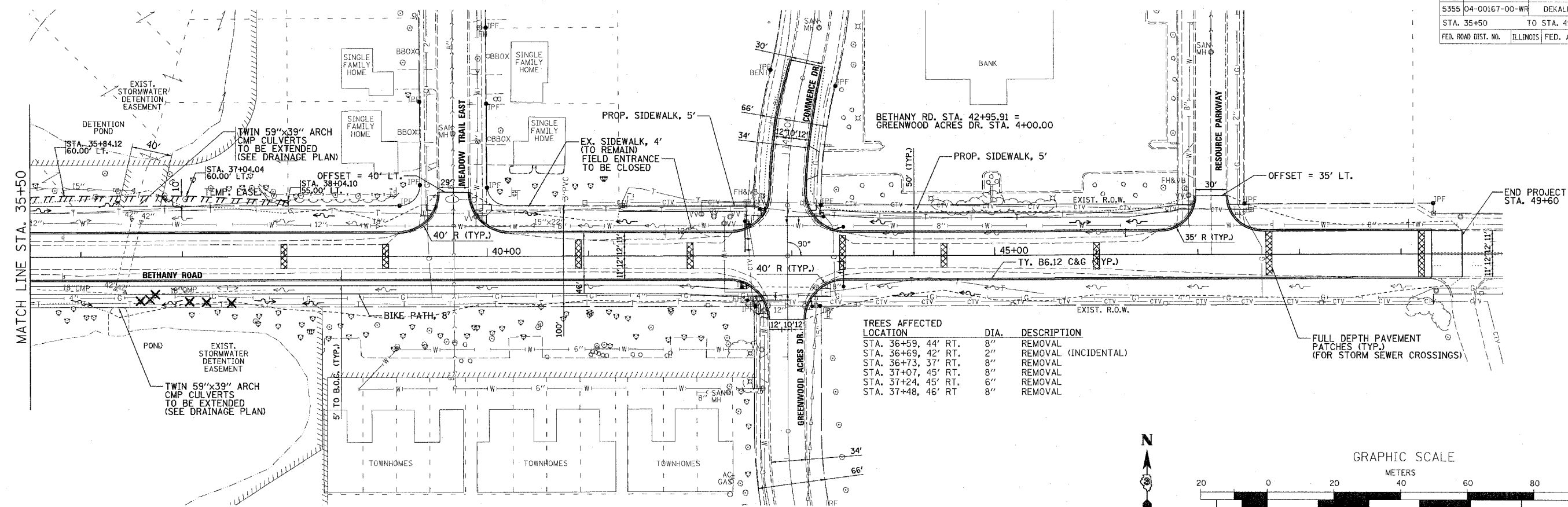
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	NOTED		
	CHECKED		
	DATE		

PLOT DATE = 8/16/2007
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 PLOT SCALE = 1"=50'
 USER NAME = USER



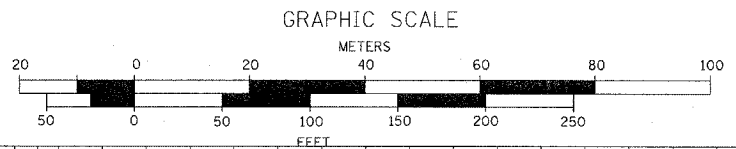
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
5355	04-00167-00-WR	DEKALB	62	12
STA. 35+50		TO STA. 49+30		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

PLAN	SURVEYED	DATE
	BY	
	NOTED	
	CHECKED	
	DATE	
	BY	
	NOTED	
	CHECKED	
	DATE	
	BY	

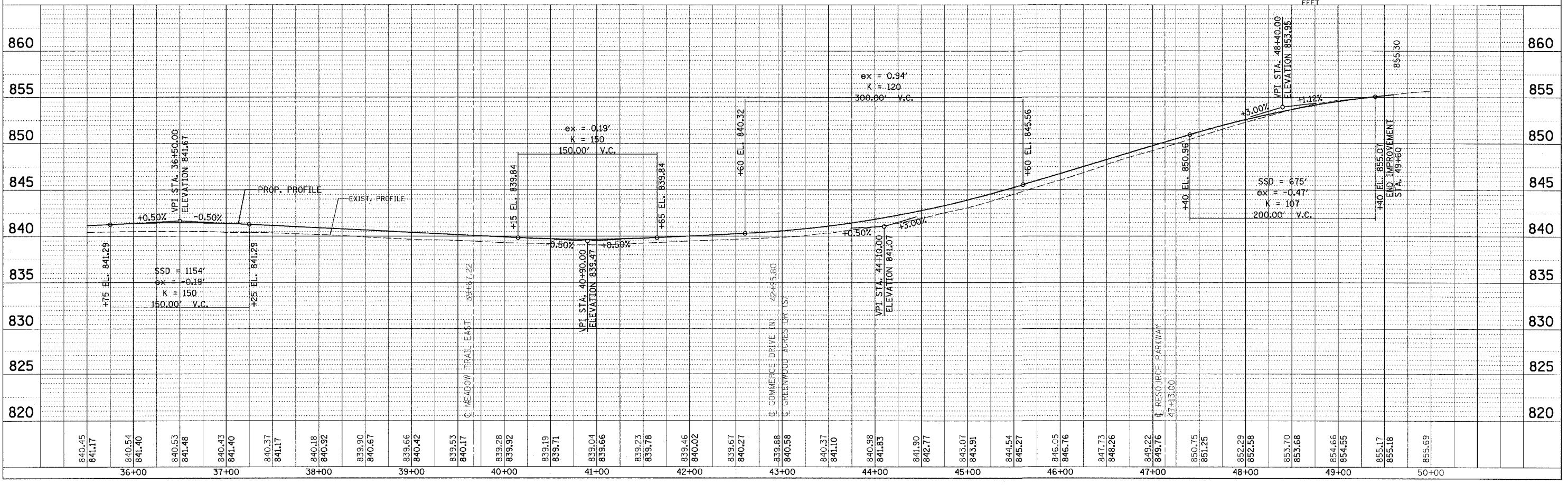


TREES AFFECTED

LOCATION	DIA.	DESCRIPTION
STA. 36+59, 44' RT.	8"	REMOVAL
STA. 36+69, 42' RT.	2"	REMOVAL (INCIDENTAL)
STA. 36+73, 37' RT.	8"	REMOVAL
STA. 37+07, 45' RT.	8"	REMOVAL
STA. 37+24, 45' RT.	6"	REMOVAL
STA. 37+48, 46' RT.	8"	REMOVAL



PROFILE	SURVEYED	DATE
	BY	
	NOTED	
	CHECKED	
	DATE	
	BY	
	NOTED	
	CHECKED	
	DATE	
	BY	



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USER NAME = USER

APPLICABLE M.O.T. STANDARDS

STD. 701001-01	OFF-RD OPERATIONS, 2L, 2W, MORE THAN 15 5/32 AWAY
STD. 701006-02	OFF-RD OPERATIONS, 2L, 2W, 15 5/32 TO 24 9/32 FROM PAVEMENT EDGE
STD. 701011-01	OFF-RD MOVING OPERATIONS, 2L, 2W, DAY ONLY
STD. 701201-02	LANE CLOSURE, 2L, 2W, DAY ONLY, FOR SPEEDS >= 45 MPH
STD. 701301-02	LANE CLOSURE, 2L, 2W SHORT TIME OPERATIONS
STD. 701311-02	LANE CLOSURE, 2L, 2W MOVING OPERATIONS - DAY ONLY
STD. 701326-02	LANE CLOSURE, 2L, 2W, PAVEMENT WIDENING FOR SPEEDS >= 45 MPH

ANTICIPATED CONSTRUCTION ACTIVITIES

- EROSION CONTROL INSTALLATION
- TEMPORARY PAVEMENT INSTALLATION (MOT PER STD. 701326)

SCHEDULE OF QUANTITIES

CODE	DESCRIPTION	UNIT	QUANTITY
X0712400	TEMPORARY PAVEMENT	SQ. YD.	840

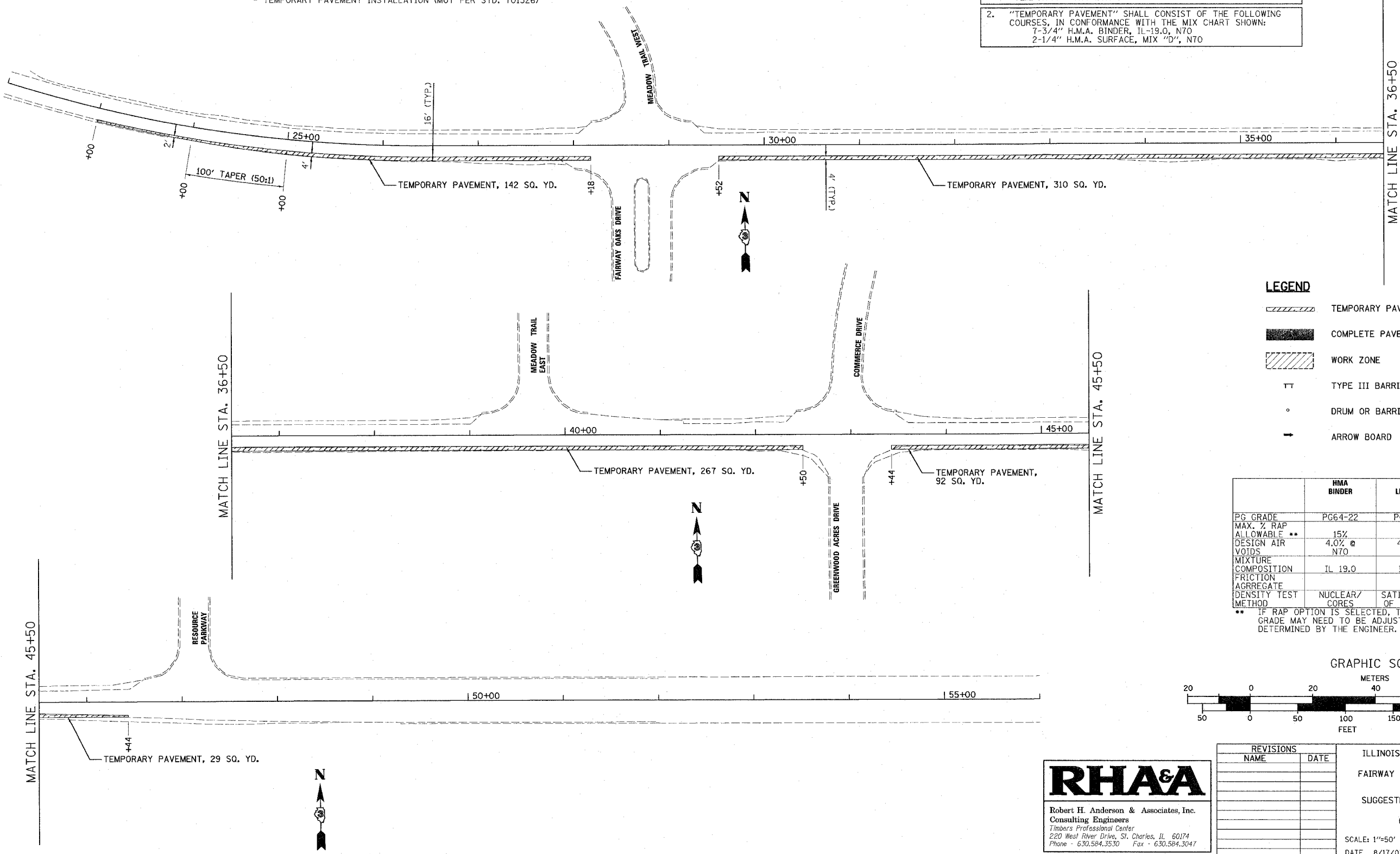
• SEE SPECIAL PROVISION

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
5355	04-00167-00-WR	DEKALB	62	13

STA. TO STA.
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT

TEMPORARY PAVEMENT WIDENING NOTES

1. THE EXCAVATION OF THE SHOULDER AND ADJACENT GROUND NECESSARY FOR THE PLACEMENT OF THE TEMPORARY PAVEMENT AND AGGREGATE BASE SHALL BE INCIDENTAL TO THE PAY ITEM, "TEMPORARY PAVEMENT".
2. "TEMPORARY PAVEMENT" SHALL CONSIST OF THE FOLLOWING COURSES, IN CONFORMANCE WITH THE MIX CHART SHOWN:
7-3/4" H.M.A. BINDER, IL-19.0, N70
2-1/4" H.M.A. SURFACE, MIX "D", N70



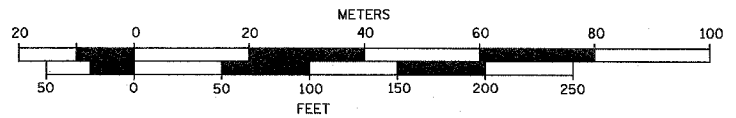
LEGEND

- TEMPORARY PAVEMENT WIDENING
- COMPLETE PAVEMENT
- WORK ZONE
- TYPE III BARRICADE
- DRUM OR BARRICADE
- ARROW BOARD

	HMA BINDER	HMA LEVELLING BINDER	HMA SURFACE
PG GRADE	PG64-22	PG64-22	PG64-22
MAX. % RAP ALLOWABLE **	15%	15%	10%
DESIGN AIR	4.0% @	4.0% @	4.0% @
VOIDS	N70	N70	N70
MIXTURE COMPOSITION	IL 19.0	IL 9.5	IL 12.5 OR IL 9.5
FRICTION			
AGGREGATE DENSITY TEST METHOD	NUCLEAR/ CORES	SATISFACTION OF ENGINEER	MIXTURE D NUCLEAR/ CORES

** IF RAP OPTION IS SELECTED, THE ASPHALT CEMENT GRADE MAY NEED TO BE ADJUSTED. THIS WILL BE DETERMINED BY THE ENGINEER.

GRAPHIC SCALE



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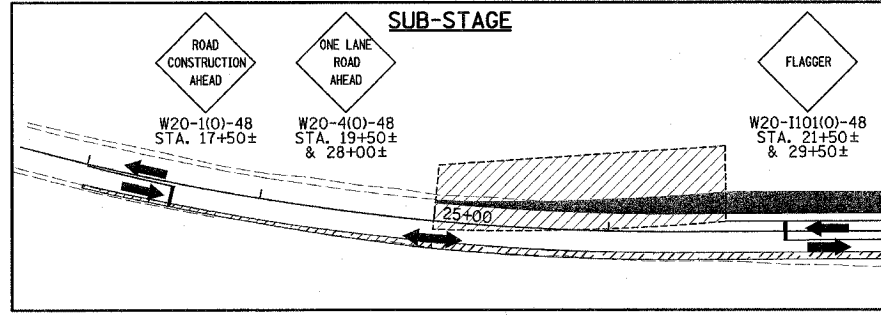
REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
 BETHANY ROAD WIDENING
 FAIRWAY OAKS DRIVE TO RESOURCE PARKWAY
 CITY OF DEKALB

SUGGESTED MAINTENANCE OF TRAFFIC PLAN
 PRE-STAGE I
 (PAVEMENT WIDENING PLAN)

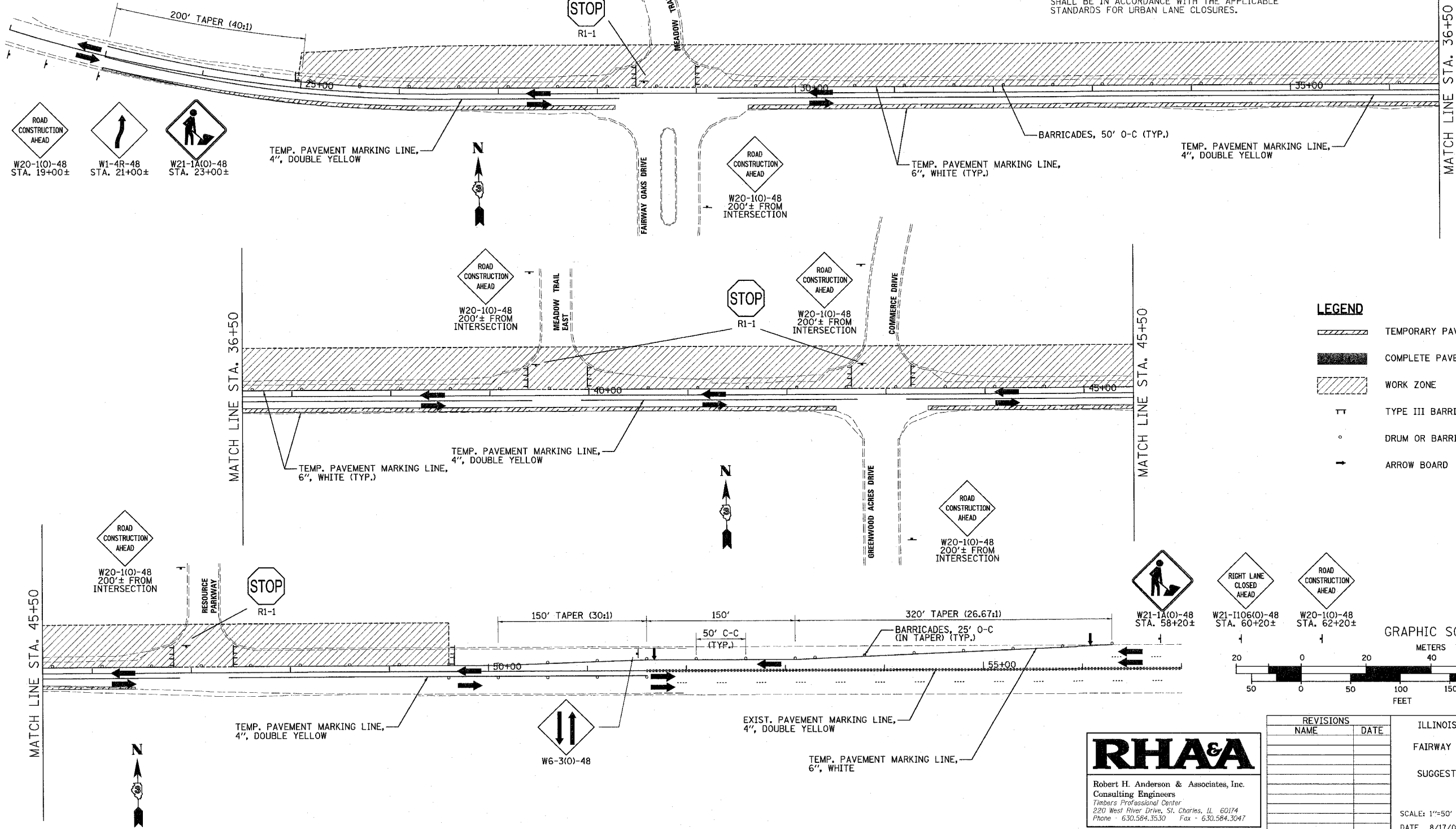
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 CHECKED BY: BP

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STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		



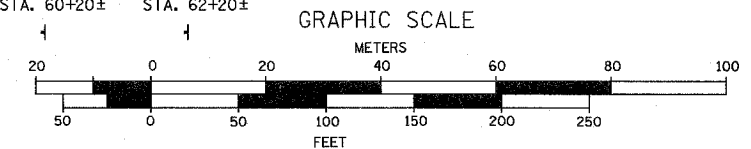
M.O.T. NOTES

1. CONTRACTOR SHALL KEEP THE SIDE STREETS OPEN AT ALL TIMES BY UTILIZING SUB-STAGES NOT SHOWN.
2. BETHANY ROAD LANE CLOSURES SHALL BE AVOIDED, BUT SHORT TERM CLOSURES MAY BE ALLOWED AT THE DISCRETION OF THE ENGINEER. LANE CLOSURES SHALL BE IN ACCORDANCE WITH AN APPLICABLE IDOT STANDARD OR AS APPROVED BY THE ENGINEER.
3. COMMERCE DRIVE AND OTHER SIDE STREET M.O.T. SHALL BE IN ACCORDANCE WITH THE APPLICABLE STANDARDS FOR URBAN LANE CLOSURES.



LEGEND

- TEMPORARY PAVEMENT WIDENING
- COMPLETE PAVEMENT
- WORK ZONE
- TYPE III BARRICADE
- DRUM OR BARRICADE
- ARROW BOARD



REVISIONS	
NAME	DATE

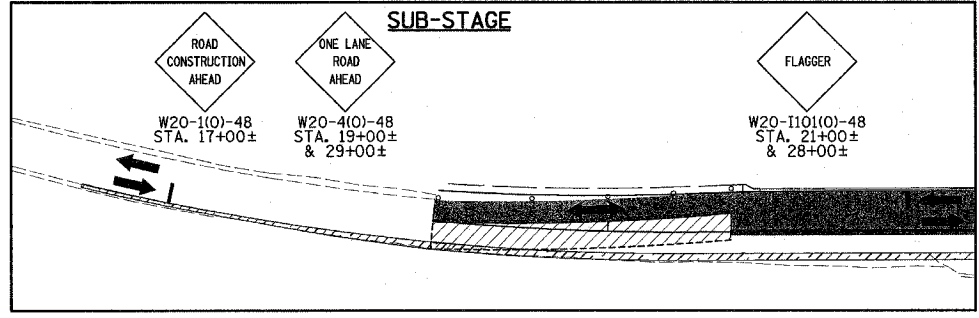
ILLINOIS DEPARTMENT OF TRANSPORTATION
 BETHANY ROAD WIDENING
 FAIRWAY OAKS DRIVE TO RESOURCE PARKWAY
 CITY OF DEKALB
 SUGGESTED MAINTENANCE OF TRAFFIC PLAN
 STAGE I

SCALE: 1"=50'
 DATE: 8/17/07
 DRAWN BY: KMA
 CHECKED BY: BP

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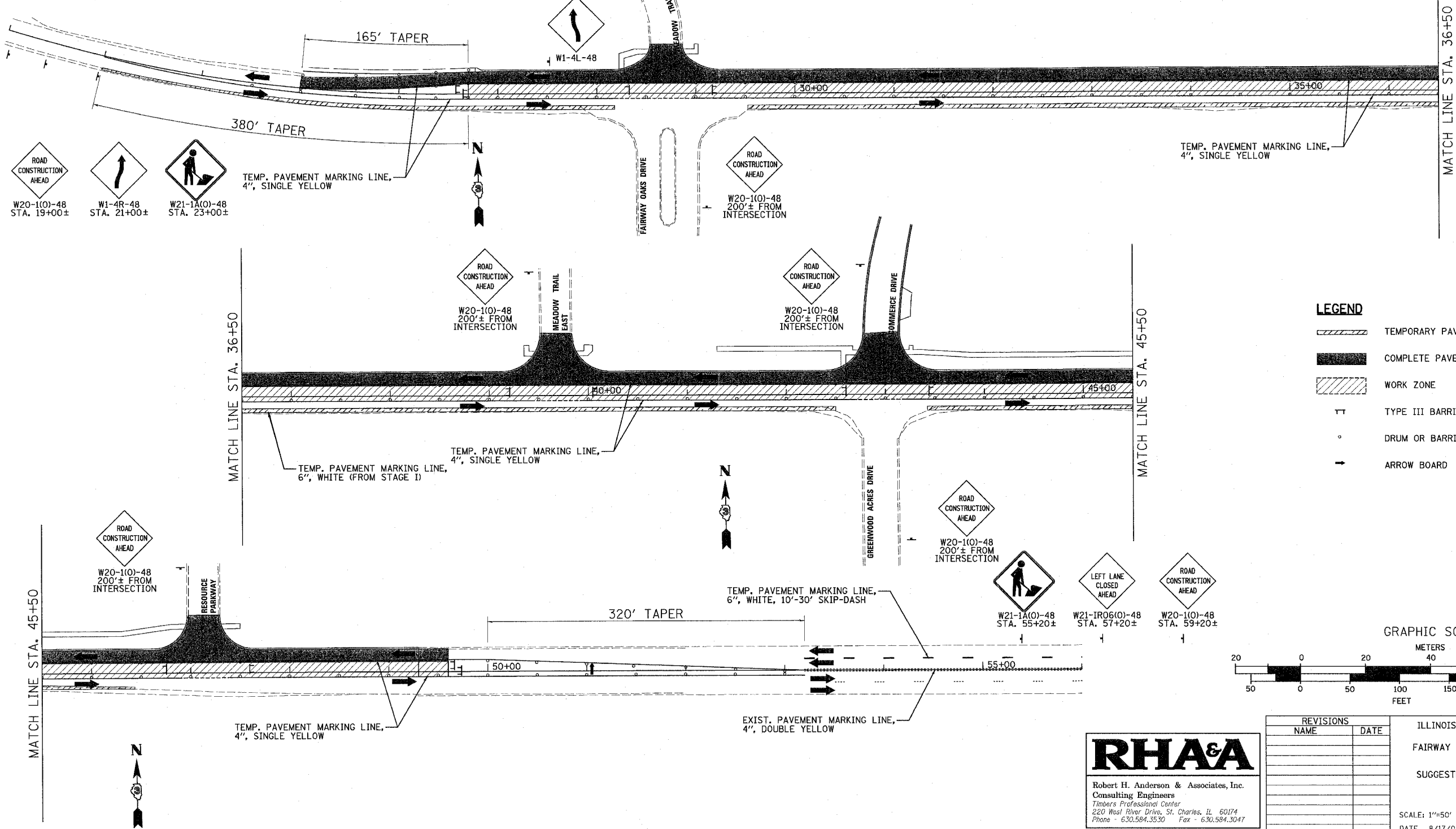
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STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		



M.O.T. NOTES

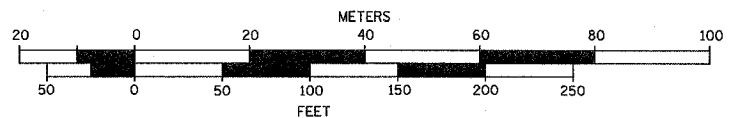
1. CONTRACTOR SHALL KEEP THE SIDE STREETS OPEN AT ALL TIMES BY UTILIZING SUB-STAGES NOT SHOWN.
2. COMMERCE DRIVE AND OTHER SIDE STREET M.O.T. SHALL BE IN ACCORDANCE WITH THE APPLICABLE STANDARDS FOR URBAN LANE CLOSURES.
3. STOP BAR PAVEMENT MARKINGS (2' WHITE) (ON SIDE STREETS) ARE NOT SHOWN. LOCATIONS TO BE DETERMINED IN FIELD AS APPROVED BY THE ENGINEER.



LEGEND

- TEMPORARY PAVEMENT WIDENING
- COMPLETE PAVEMENT
- WORK ZONE
- TYPE III BARRICADE
- DRUM OR BARRICADE
- ARROW BOARD

GRAPHIC SCALE



REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
 BETHANY ROAD WIDENING
 FAIRWAY OAKS DRIVE TO RESOURCE PARKWAY
 CITY OF DEKALB
 SUGGESTED MAINTENANCE OF TRAFFIC PLAN
 STAGE II

SCALE: 1"=50'
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 DRAWN BY: KMA
 CHECKED BY: BP

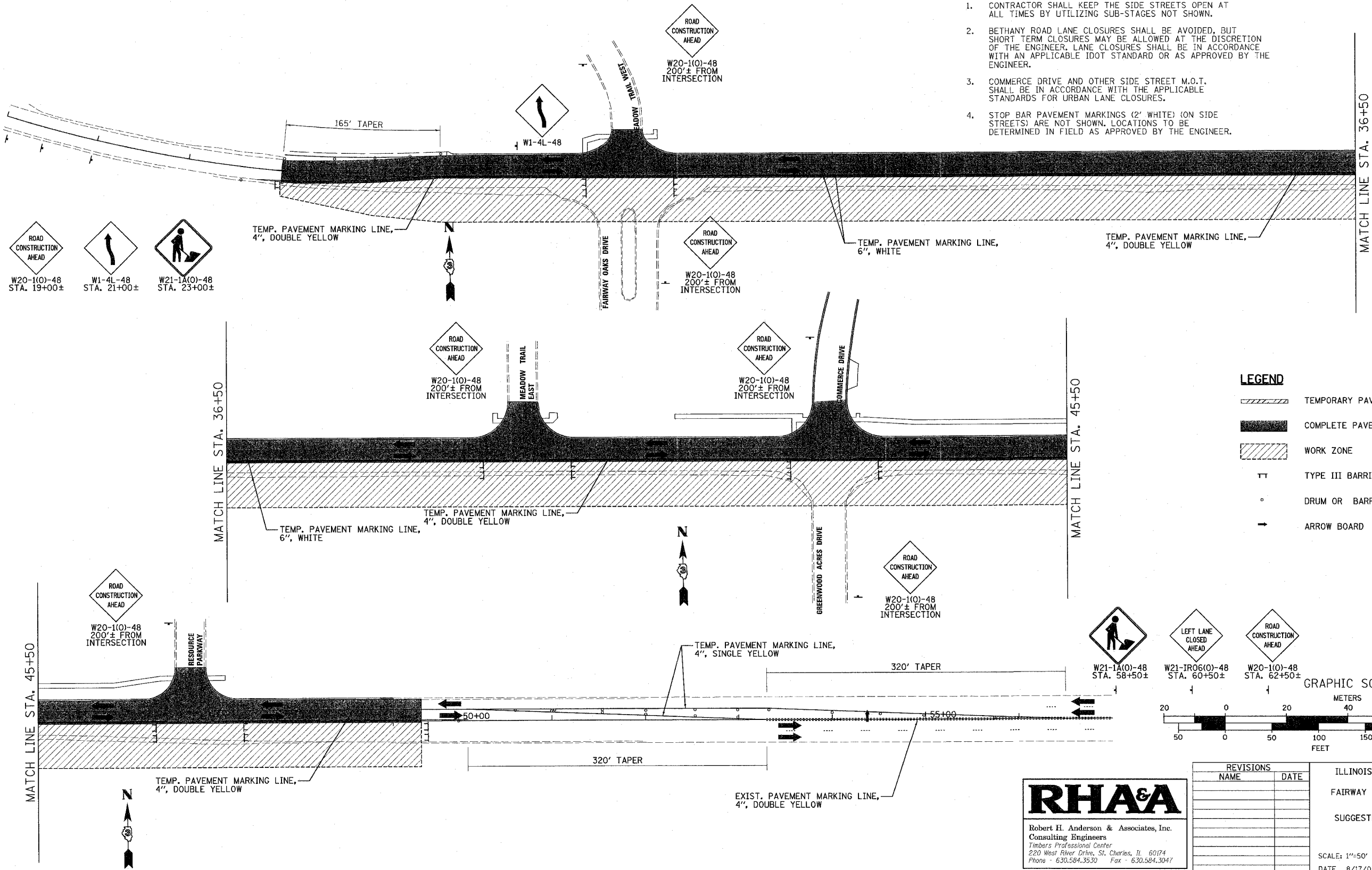
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STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

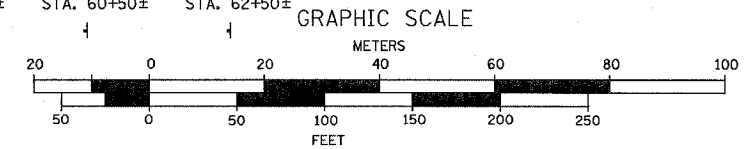
M.O.T. NOTES

1. CONTRACTOR SHALL KEEP THE SIDE STREETS OPEN AT ALL TIMES BY UTILIZING SUB-STAGES NOT SHOWN.
2. BETHANY ROAD LANE CLOSURES SHALL BE AVOIDED, BUT SHORT TERM CLOSURES MAY BE ALLOWED AT THE DISCRETION OF THE ENGINEER. LANE CLOSURES SHALL BE IN ACCORDANCE WITH AN APPLICABLE IDOT STANDARD OR AS APPROVED BY THE ENGINEER.
3. COMMERCE DRIVE AND OTHER SIDE STREET M.O.T. SHALL BE IN ACCORDANCE WITH THE APPLICABLE STANDARDS FOR URBAN LANE CLOSURES.
4. STOP BAR PAVEMENT MARKINGS (2' WHITE) (ON SIDE STREETS) ARE NOT SHOWN. LOCATIONS TO BE DETERMINED IN FIELD AS APPROVED BY THE ENGINEER.



LEGEND

- TEMPORARY PAVEMENT WIDENING
- COMPLETE PAVEMENT
- WORK ZONE
- TYPE III BARRICADE
- DRUM OR BARRICADE
- ARROW BOARD



REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
 BETHANY ROAD WIDENING
 FAIRWAY OAKS DRIVE TO RESOURCE PARKWAY
 CITY OF DEKALB
 SUGGESTED MAINTENANCE OF TRAFFIC PLAN
 STAGE III

SCALE: 1"=50'
 DATE: 8/17/07
 DRAWN BY: KMA
 CHECKED BY: BP

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PLOT DATE: 8/16/2007
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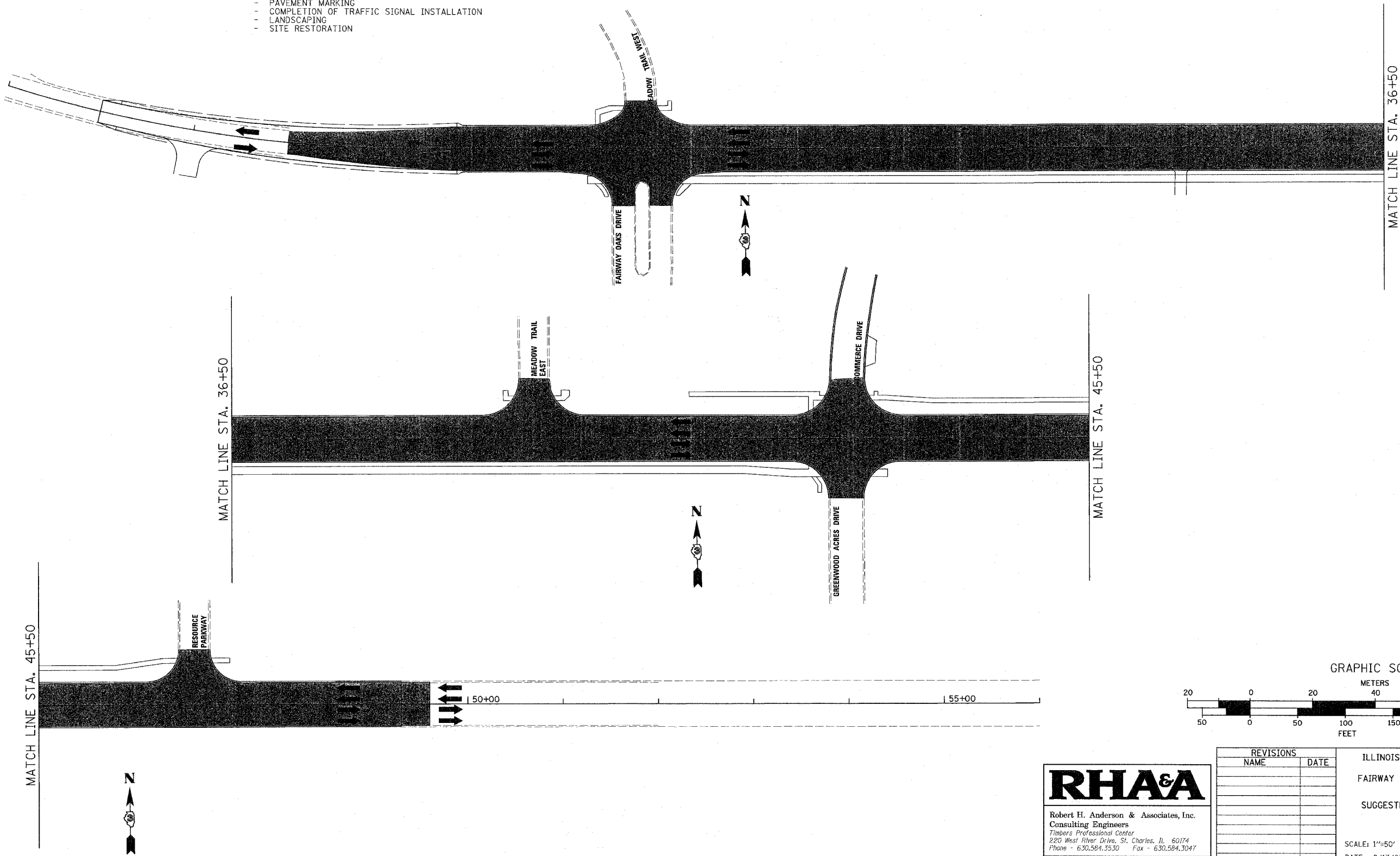
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STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

APPLICABLE M.O.T. STANDARDS

- STD. 701101-01 OFF-RD OPERATIONS, MULTILANE, 15' TO 24" FROM PAVEMENT EDGE
- STD. 701106-01 OFF-RD OPERATIONS, MULTILANE, MORE THAN 15' AWAY
- STD. 701426-02 LANE CLOSURE, MULTILANE, INTERMITTENT OR MOVING OPERATIONS FOR SPEEDS >= 45 MPH
- STD. 701606-04 URBAN LANE CLOSURE, MULTILANE, 2W WITH MOUNTABLE MEDIAN
- STD. 701701-04 URBAN LANE CLOSURE, MULTILANE INTERSECTION

ANTICIPATED CONSTRUCTION ACTIVITY

- H.M.A. SURFACE COURSE PLACEMENT
- PAVEMENT MARKING
- COMPLETION OF TRAFFIC SIGNAL INSTALLATION
- LANDSCAPING
- SITE RESTORATION



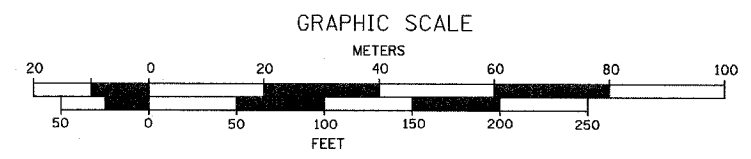
MATCH LINE STA. 45+50

MATCH LINE STA. 36+50

MATCH LINE STA. 45+50

MATCH LINE STA. 36+50

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REVISIONS	
NAME	DATE

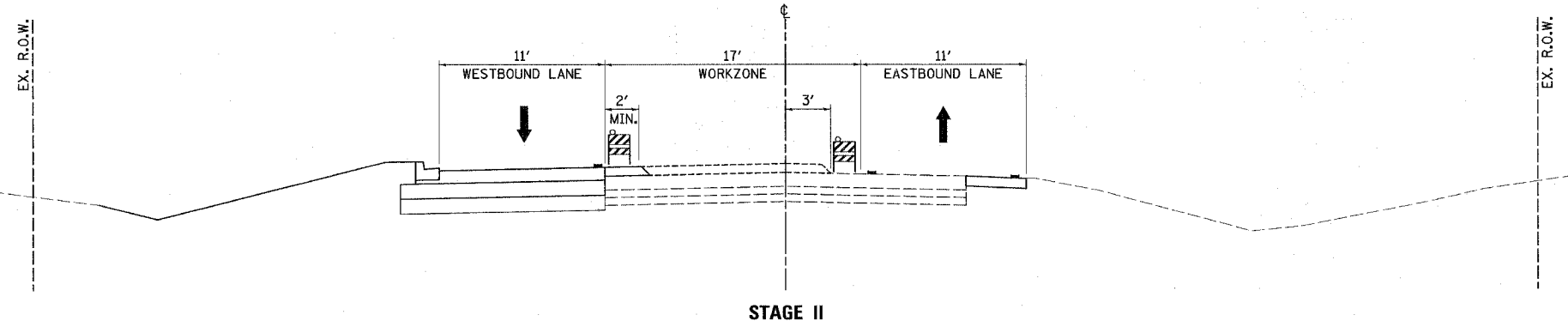
ILLINOIS DEPARTMENT OF TRANSPORTATION
 BETHANY ROAD WIDENING
 FAIRWAY OAKS DRIVE TO RESOURCE PARKWAY
 CITY OF DEKALB

SUGGESTED MAINTENANCE OF TRAFFIC PLAN
 STAGES IV & V

SCALE: 1"=50'
 DATE: 8/17/07

DRAWN BY: KMA
 CHECKED BY: BP

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

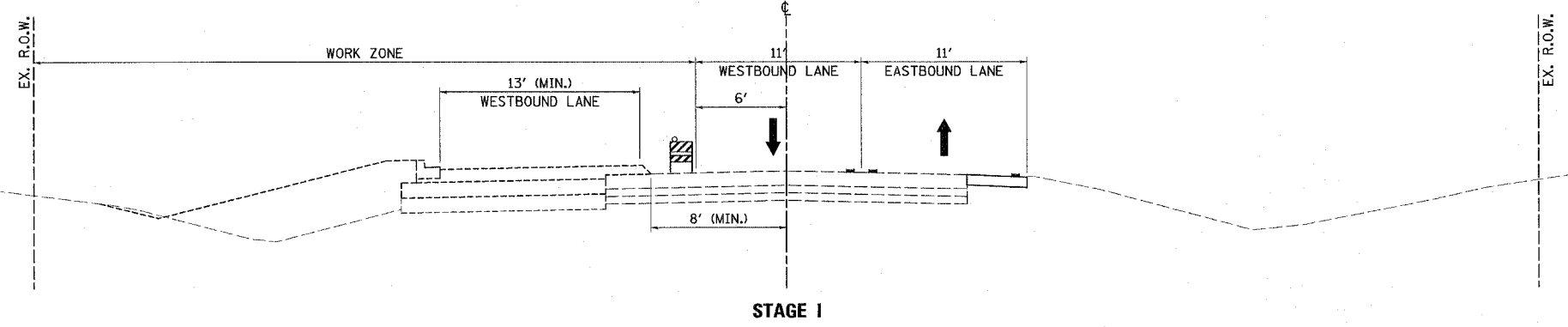


CONSTRUCTION ACTIVITY

- CONSTRUCT PAVEMENT OVERLAY IN THE MIDDLE OF THE EXISTING PAVEMENT.
- COMPLETE MOST REMAINING LANDSCAPING WORK ON NORTH SIDE.

MAINTENANCE OF TRAFFIC

- WESTBOUND TRAFFIC UTILIZES NEW PAVEMENT.
- EASTBOUND TRAFFIC CONTINUES TO UTILIZE TEMPORARY AND EXISTING PAVEMENT.

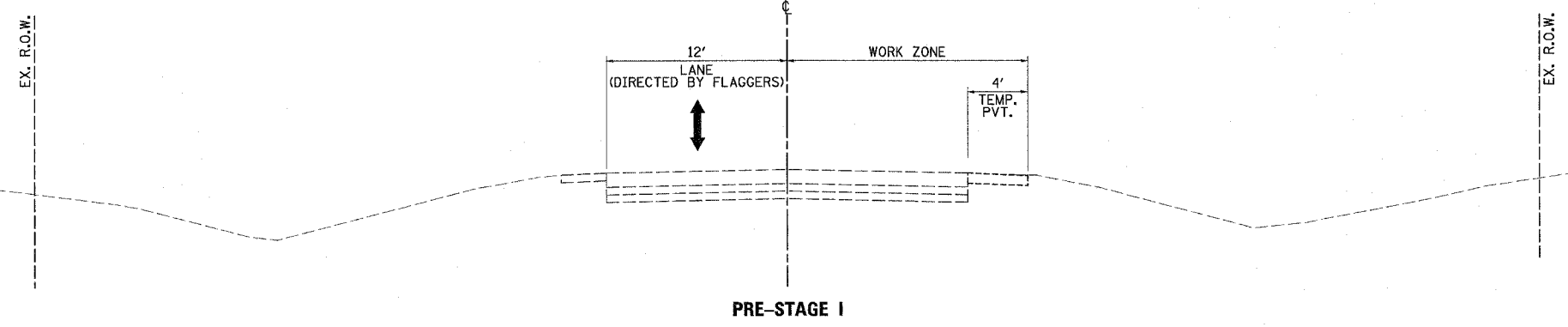


CONSTRUCTION ACTIVITY

- CONSTRUCT PAVEMENT WIDENING ON NORTH SIDE.
- CONSTRUCT A PORTION OF THE PAVEMENT OVERLAY ON THE NORTH SIDE.
- CONSTRUCT SIDEWALKS.

MAINTENANCE OF TRAFFIC

- TRAFFIC IS SHIFTED TO UTILIZE THE TEMPORARY PAVEMENT, EASTBOUND LANE, AND A PORTION OF THE WESTBOUND LANE.



CONSTRUCTION ACTIVITY

- CONSTRUCT TEMPORARY PAVEMENT.
- PLACE EROSION CONTROL ITEMS.

MAINTENANCE OF TRAFFIC

- TRAFFIC UTILIZES WESTBOUND LANES WITH ASSISTANCE OF FLAGGERS. (PER STD. 701306-01)

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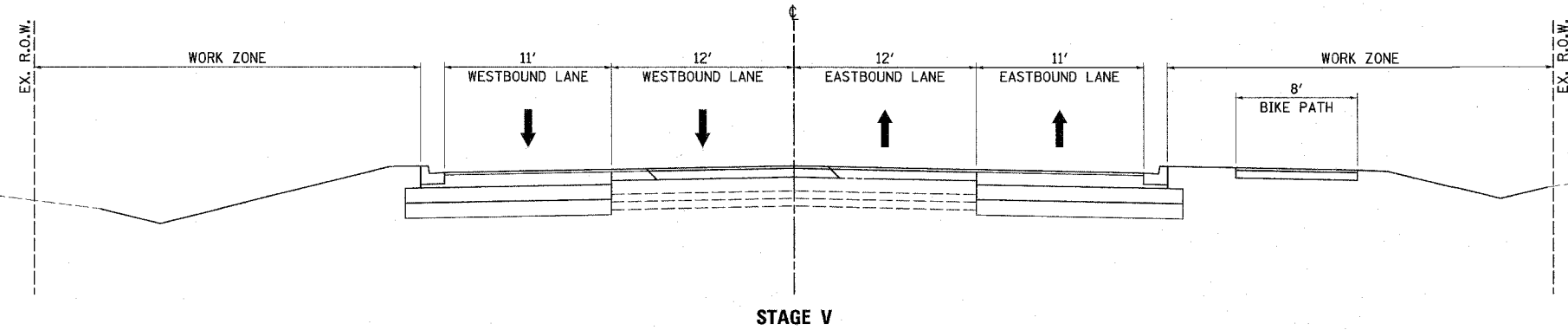
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REVISIONS		ILLINOIS DEPARTMENT OF TRANSPORTATION BETHANY ROAD WIDENING FAIRWAY OAKS DRIVE TO RESOURCE PARKWAY CITY OF DEKALB
NAME	DATE	
		SUGGESTED MAINTENANCE OF TRAFFIC PLAN TYPICAL SECTIONS STAGES I - III

SCALE: N.T.S. DRAWN BY KMA
 DATE 8/17/07 CHECKED BY BP

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

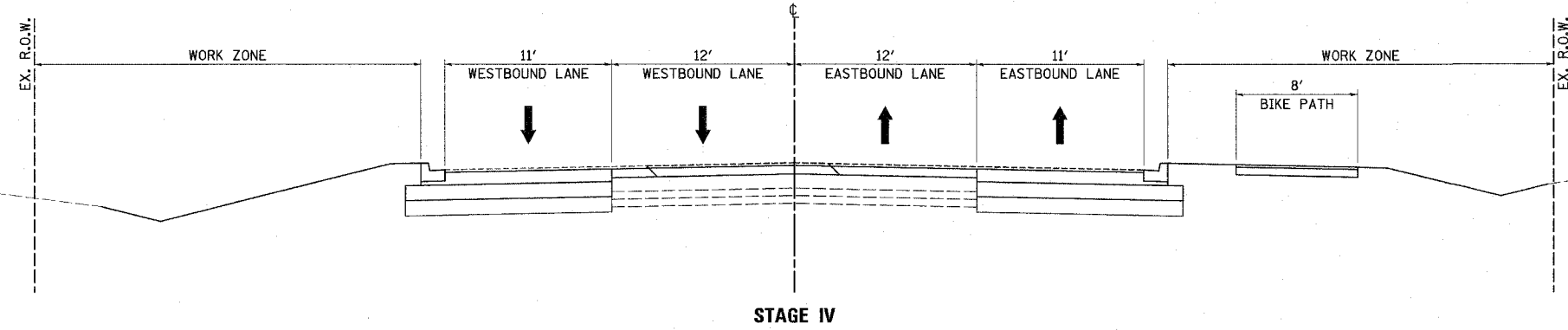


CONSTRUCTION ACTIVITY

- FINAL PAVEMENT MARKING BETWEEN WESTBOUND LANES.
- REMAINING LANDSCAPING ITEMS INCLUDING THE REMOVAL OF EROSION CONTROL ITEMS.

MAINTENANCE OF TRAFFIC

- TRAFFIC ASSIGNED TO THEIR PROPOSED LANES. (REQUIRES SHORT TERM TRAFFIC CONTROL PER STD. 701606-04)

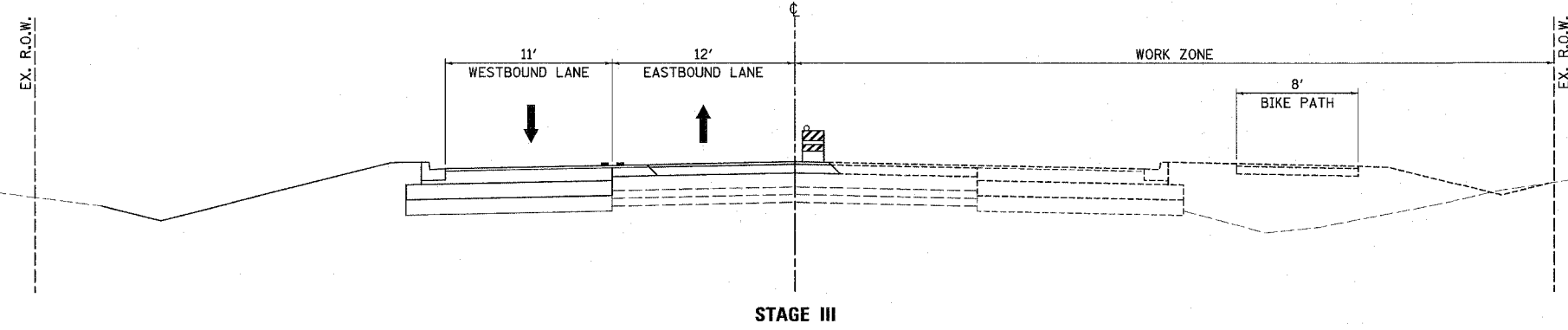


CONSTRUCTION ACTIVITY

- BITUMINOUS SURFACE COURSE FOR ROADWAY
- REMAINING LANDSCAPING ITEMS INCLUDING THE REMOVAL OF EROSION CONTROL ITEMS.

MAINTENANCE OF TRAFFIC

- TRAFFIC ASSIGNED TO THEIR PROPOSED LANES. (REQUIRES SHORT TERM TRAFFIC CONTROL PER STD. 701606-04)



CONSTRUCTION ACTIVITY

- CONSTRUCT PAVEMENT WIDENING ON SOUTH SIDE.
- CONSTRUCT REMAINING PORTION OF THE PAVEMENT OVERLAY ON THE SOUTH SIDE.
- CONSTRUCT BIKE PATH.

MAINTENANCE OF TRAFFIC

- ALL TRAFFIC UTILIZES THE NEW PAVEMENT ON THE NORTH SIDE. THE EASTBOUND LANE TEMPORARILY UTILIZES THE PROPOSED INSIDE WESTBOUND LANE.

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 USER NAME = JUSER

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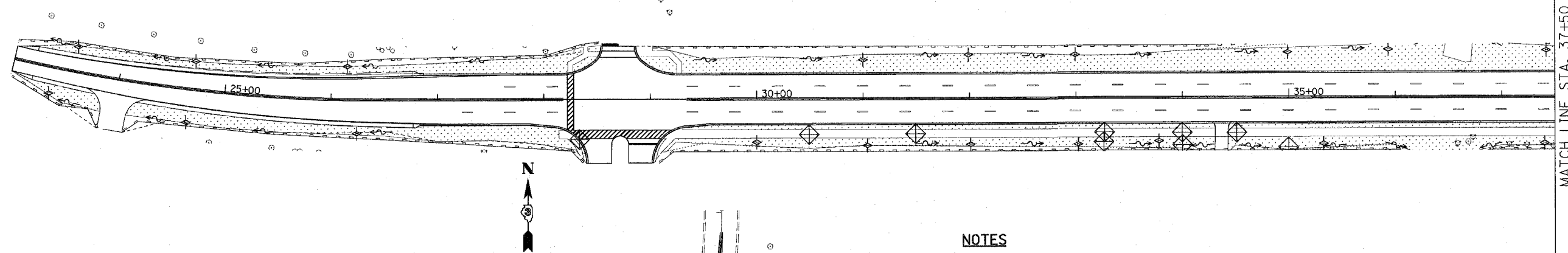
REVISIONS		ILLINOIS DEPARTMENT OF TRANSPORTATION BETHANY ROAD WIDENING FAIRWAY OAKS DRIVE TO RESOURCE PARKWAY CITY OF DEKALB
NAME	DATE	
		SUGGESTED MAINTENANCE OF TRAFFIC PLAN TYPICAL SECTIONS STAGES III - IV

SCALE: N.T.S. DRAWN BY: KMA
 DATE: 8/17/07 CHECKED BY: BP

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

LEGEND

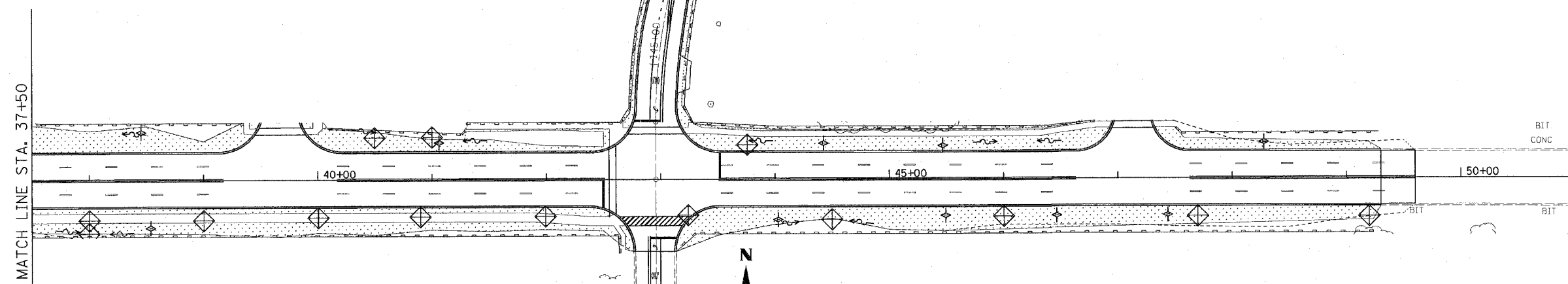
- PERIMETER EROSION CONTROL BARRIER
- ◇ TEMPORARY DITCH CHECK
- ◇ INLET PROTECTION
- ▨ SEEDING, TYPE 1A (& TEMP. EROSION CONTROL SEEDING AS DIRECTED BY ENGINEER)



MATCH LINE STA. 37+50

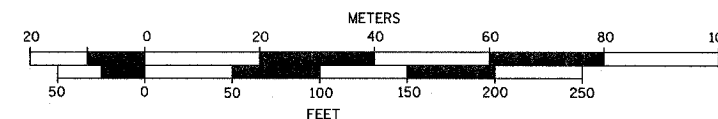
NOTES

1. SWALES AND DITCHES SHALL BE SODDED TO 1' ABOVE THE BOTTOM OR AS DIRECTED BY THE ENGINEER.
2. REPLACEMENT TREES SHALL BE PLACED NEAR WHERE TREES WERE REMOVED. FINAL LOCATIONS SHALL BE APPROVED BY THE ENGINEER.



MATCH LINE STA. 37+50

GRAPHIC SCALE



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REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
 BETHANY ROAD WIDENING
 FAIRWAY OAKS DRIVE TO RESOURCE PARKWAY
 CITY OF DEKALB
 EROSION CONTROL PLAN

SCALE: 1"=50'
 DATE 8/17/07
 DRAWN BY KMA
 CHECKED BY BP

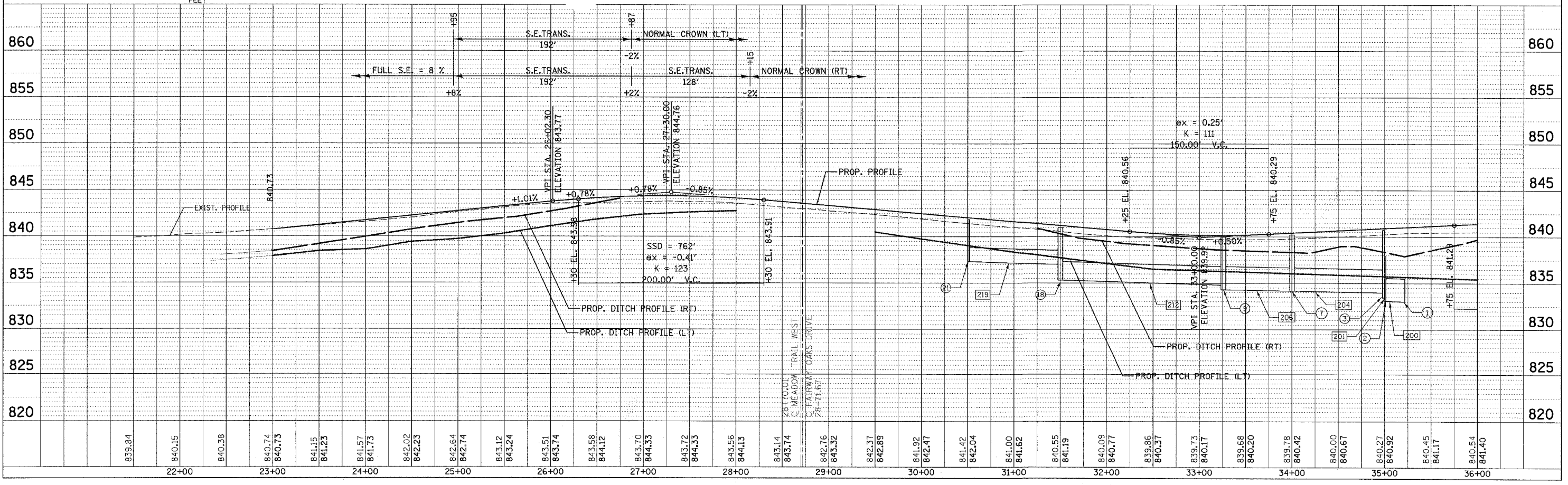
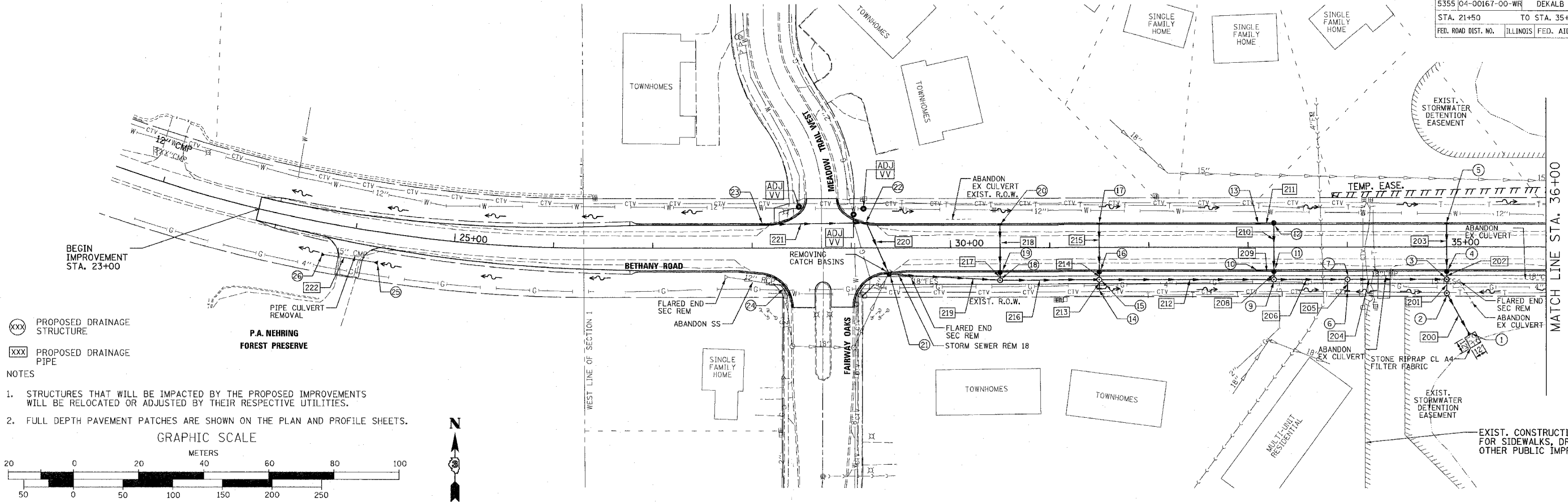
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F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
5355	04-00167-00-WR	DEKALB	62	21
STA. 21+50		TO STA. 35+50		
FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT			

DATE	BY
DATE	BY
DATE	BY

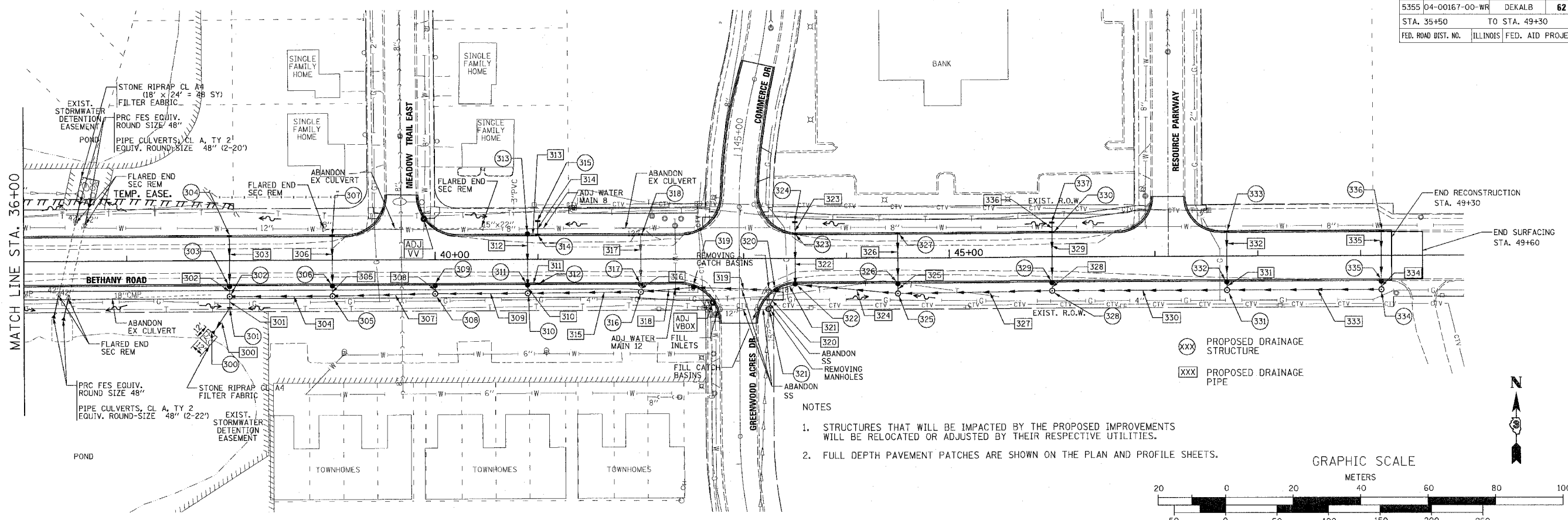
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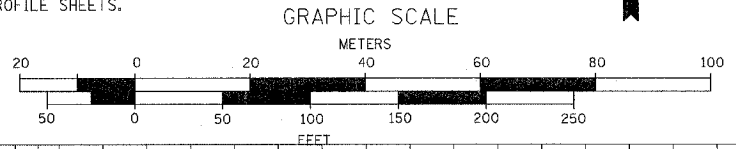


F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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STA. 35+50		TO STA. 49+30		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

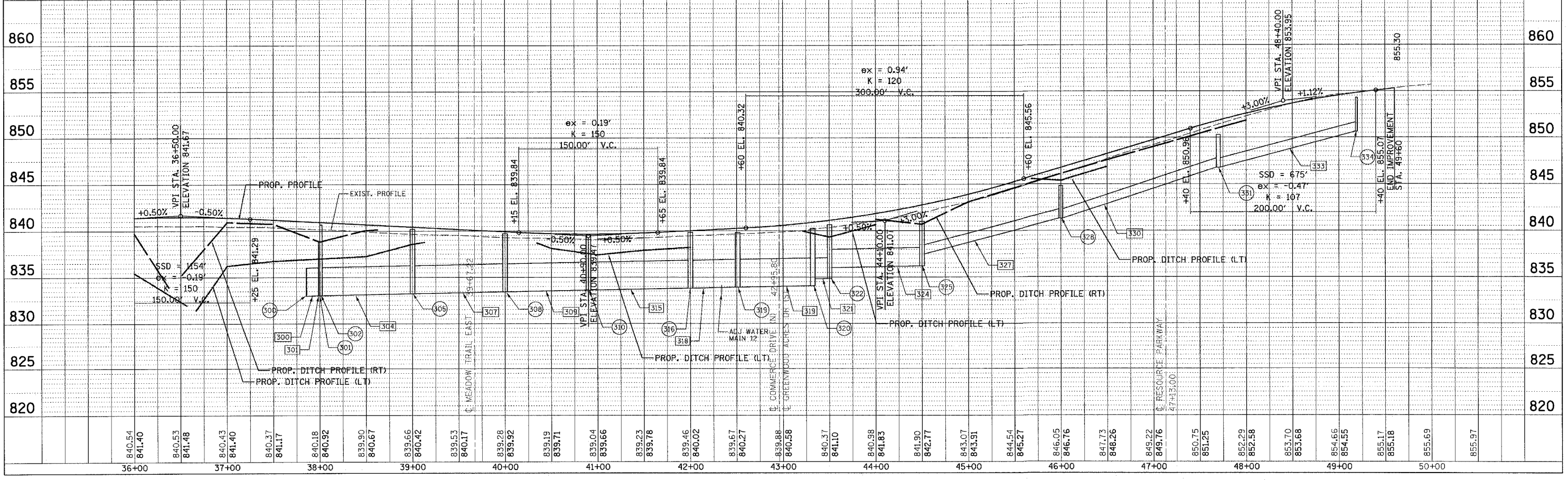
PLAN	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
NO.	CHECKED		
	BY		
	DATE		



- NOTES
- STRUCTURES THAT WILL BE IMPACTED BY THE PROPOSED IMPROVEMENTS WILL BE RELOCATED OR ADJUSTED BY THEIR RESPECTIVE UTILITIES.
 - FULL DEPTH PAVEMENT PATCHES ARE SHOWN ON THE PLAN AND PROFILE SHEETS.



PROFILE	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
NO.	CHECKED		
	BY		
	DATE		



PLOT DATE = 8/16/2007
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 USER NAME = JUSER

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
5355	04-00167-00-WR	DEKALB	62	23
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	

STRUCTURE NO	STATION	OFFSET DISTANCE	OFFSET	RIM ELEV	N	NE	NW	S	SW	SE	E	W	PRC FLAR END SEC 15	PRC FLAR END SEC 30	PRC FLAR END SEC 36	CB SP TIIF&G	CB SP TIIV F&G	CB TA 5 DIA TIIF&G	CB TA 5 DIA TIIV F&G	MAN TA 4 DIA TIF CL	MAN TA 5 DIA TIF CL	MAN TA 5 DIA TIF OL	INL TY A TIF OL	INLETS TA TIIF&G	INLETS TA TIIV F&G	INLETS TB TIIV F&G	INLETS TB TIIF&G	CB F&G ADJUST	COMMENTS
1	35+21.53	86.42	RT	835.50			833.00							1															
2	35+00.00	47.00	RT	837.90	837.90					833.09													1						
3	35+00.00	33.00	RT	840.73	836.81			833.45				833.97										1							
4	35+00.00	23.00	RT	840.46	836.82											1													
5	35+00.00	23.00	LT	840.46				836.96																1					
6	34+00.00	44.58	RT	838.23	836.23																	1							
7	34+00.00	33.00	RT	840.23				836.20			834.16	834.16										1							
9	33+26.00	33.00	RT	839.97	835.79						834.30	834.80										1							
10	33+10.00	23.00	RT	839.70							836.20													1					
11	33+26.00	23.00	RT	839.70	836.04			835.79				836.13				1													
12	33+26.00	23.00	LT	839.70				836.13				836.13				1													
13	33+10.00	23.00	LT	839.70							836.20													1					
14	31+50.00	42.00	RT	839.84	836.34																	1							
15	31+50.00	33.00	RT	841.00	837.08			836.31			835.31	837.00										1							
16	31+50.00	23.00	RT	840.73	837.09						837.09					1													
17	31+50.00	23.00	LT	840.73				837.23																1					
18	30+50.00	33.00	RT	841.85	837.83						837.33	837.39													1				
19	30+50.00	23.00	RT	841.58	837.85						837.85					1													
20	30+50.00	23.00	LT	841.58				838.08																	1				
21	29+38.09	24.84	RT	842.47			838.94		839.21		837.72								1									CONNECT EXIST SOUTHWEST PIPE	
22	29+15.00	23.90	LT	842.65						839.15		839.15													1				
23	28+10.00	23.00	LT	843.67							840.17														1				
24	28+34.03	38.42	RT	842.30																						1		MAINTAIN EXIST STRUCTURE AND INV	
25	24+23.04	30.86	RT	841.57								840.24																	
26	23+74.10	31.63	RT	840.80							839.40																		
300	37+85.73	67.75	RT	836.00			833.00								1														
301	38+00.00	46.00	RT	838.84	833.05					833.05														1					
302	38+00.00	35.00	RT	840.68	835.00			833.06			833.06												1						
303	38+00.00	23.00	RT	840.46	836.23						835.27					1													
304	38+00.00	23.00	LT	840.46				835.27																	1				
305	39+00.00	35.00	RT	840.19	835.30						833.25	833.25											1						
306	39+00.00	23.00	RT	839.96	836.23			835.58								1													
307	39+00.00	23.00	LT	839.96				836.46																	1				
308	40+00.00	33.00	RT	839.73	835.50						833.44	833.44											1						
309	40+00.00	23.00	RT	839.46				835.51								1													
310	40+90.00	33.00	RT	839.54	834.00						833.61	833.61											1						
311	40+90.00	23.00	RT	839.20	834.01			834.01			834.01					1													
312	41+00.00	23.00	RT	839.20								834.72													1				
313	40+90.00	23.00	LT	839.20				834.20			834.20																		
314	41+00.00	23.00	LT	839.20	834.23							834.23														1			
315	41+00.00	37.00	LT	837.41				834.75															1						
316	42+00.00	32.00	RT	839.85	835.82						833.82	833.82																	
317	42+00.00	23.00	RT	839.56	835.83			835.83								1													
318	42+00.00	23.00	LT	839.56				836.06																		1			
319	42+52.00	25.57	RT	839.81							833.91	833.91																	
320	43+31.00	28.90	RT	840.28					834.78		834.81	834.06						1		1									
321	43+23.85	49.33	RT	840.53			834.86	836.53																					
322	43+50.00	23.05	RT	840.64	835.53						836.00	834.84						1										CONNECT EXIST SOUTH PIPE	
323	43+50.00	23.12	LT	840.64	836.60			835.76																		1			
324	43+50.00	35.00	LT	839.32				836.66															1						
325	44+50.00	34.50	RT	840.99	837.19						837.49	836.19																	
326	44+50.00	23.00	RT	842.31	838.58						837.44					1													
327	44+50.00	23.00	LT	842.31				838.81																	1				
328	46+00.00	33.00	RT	844.80	841.30						841.30	841.30																	
329	46+00.00	23.00	RT	846.30	841.60						841.60																		
330	46+00.00	23.00	LT	846.30	842.17			841.83																			1		
331	47+70.00	33.00	RT	850.27	846.77						846.77	846.77																	
332	47+70.00	23.00	RT	851.35	847.62			846.97																					
333	47+70.00	23.00	LT	851.35				847.85																					
334	49+20.00	33.00	RT	854.31	850.62							850.62																	
335	49+20.00	23.00	RT	854.37	850.64						850.64																		
336	49+20.00	23.00	LT	854.37				850.87																					
337	46+00.00	33.00	LT	845.38				842.22																					
													TOTAL	2	1	1	4	11	2	2	5	9	3	5	3	10	3	1	

NOTES:
 1. RIM ELEVATIONS EQUAL EDGE OF PAVEMENT ELEVATIONS OR CENTER IN PARKWAY.
 2. SEE DETAIL FOR CATCH BASIN SPECIAL.

RH&A
 Robert H. Anderson & Associates, Inc.
 Consulting Engineers
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 220 West River Drive, St. Charles, IL 60174
 Phone - 630.584.3530 Fax - 630.584.3047

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
 BETHANY ROAD WIDENING
 FAIRWAY OAKS DRIVE TO RESOURCE PARKWAY
 CITY OF DEKALB
 DRAINAGE SCHEDULE
 BETHANY ROAD

SCALE: N.T.S.
 DATE 8/17/07
 DRAWN BY TC
 CHECKED BY BP

PLT DATE = 8/16/2007
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 USER NAME = USER

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
5355	04-00167-00-WR	DEKALB	62	24
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	

PIPE NO	SLOPE (%)	STORM SEWERS, TYPE 1, REINFORCED CONCRETE CULVERT, STORM DRAIN, AND SEWER PIPE, CLASS IV 12"	STORM SEWERS, TYPE 1, REINFORCED CONCRETE CULVERT, STORM DRAIN, AND SEWER PIPE, CLASS IV 15"	STORM SEWERS, TYPE 1, REINFORCED CONCRETE CULVERT, STORM DRAIN, AND SEWER PIPE, CLASS IV 18"	STORM SEWERS, TYPE 1, REINFORCED CONCRETE CULVERT, STORM DRAIN, AND SEWER PIPE, CLASS IV 24"	STORM SEWERS, TYPE 1, REINFORCED CONCRETE CULVERT, STORM DRAIN, AND SEWER PIPE, CLASS IV 27"	STORM SEWERS, TYPE 1, REINFORCED CONCRETE CULVERT, STORM DRAIN, AND SEWER PIPE, CLASS III 30"	STORM SEWERS, TYPE 1, REINFORCED CONCRETE CULVERT, STORM DRAIN, AND SEWER PIPE, CLASS III 36"	STORM SEWERS, TYPE 2, REINFORCED CONCRETE CULVERT, STORM DRAIN, AND SEWER PIPE, CLASS III 12"	STORM SEWERS, TYPE 2, REINFORCED CONCRETE CULVERT, STORM DRAIN, AND SEWER PIPE, CLASS III 24"	STORM SEWERS, TYPE 2, REINFORCED CONCRETE CULVERT, STORM DRAIN, AND SEWER PIPE, CLASS III 30"	STORM SEWERS, TYPE 2, REINFORCED CONCRETE CULVERT, STORM DRAIN, AND SEWER PIPE, CLASS III 36"	STORM SEWERS, DUCTILE IRON 8"	BACKFILL (CU YD)	COMMENTS
200	0.20						42.67							0	
201	4.00						9.00							6	
202	0.30								3.50					0	
203	0.30	45.79												6	
204	0.20										95.00			82	
205	0.40	8.08												1	
206	0.20										69.00			50	
208	0.20		3.71											1	
209	0.50	13.03												2	
210	0.20	45.58												6	
211	0.50	13.03												2	
212	0.30									171.00				117	
213	0.50								5.50					2	
214	0.30								3.50					0	
215	0.30	45.79												6	
216	0.35			95.50										28	
217	0.50								4.00					1	
218	0.50	45.79												6	
219	0.30			107.88										37	
220	0.40	53.55												7	
221	0.99	102.80												14	
222	1.54		50.00											7	
300	0.20											23.51		0	
301	0.20							6.00						4	
302	5.00								5.50					2	
303	0.50	45.79												7	
304	0.20										95.00			99	
305	5.00								5.50					1	
306	0.50	45.79												6	
307	0.20										95.02			85	
308	0.40	3.50												1	
309	0.20							85.00						63	
310	0.40			3.71										1	
311	10.00								7.05					1	
312	0.40			45.58										12	
313	0.50	6.50												2	
314	6.50												8.00	0	
315	0.20							105.00						75	
316	0.30	2.50												0	
317	0.50	45.79												6	
318	0.20							46.29						33	
319	0.20							76.13						23	
320	0.50			15.77										11	
321	0.20					13.75								4	
322	0.50			45.95										11	
323	0.75												7.89	0	
324	0.20				95.31									0	
325	5.00	5.00												1	
326	0.50	45.79												6	
327	2.62	145.51												0	
328	5.00	4.00												1	
329	0.50	46.00												9	
330	3.30	166.00												0	
331	5.00	4.00												1	
332	0.50	45.79												6	
333	2.64	146.00												0	
334	0.50	4.00												1	
335	0.50	45.79												6	
336	0.75												6.00	0	
TOTAL		1181.19	53.71	314.39	95.31	13.75	51.67	318.42	34.55	171.00	164.00	213.53	21.89	858	

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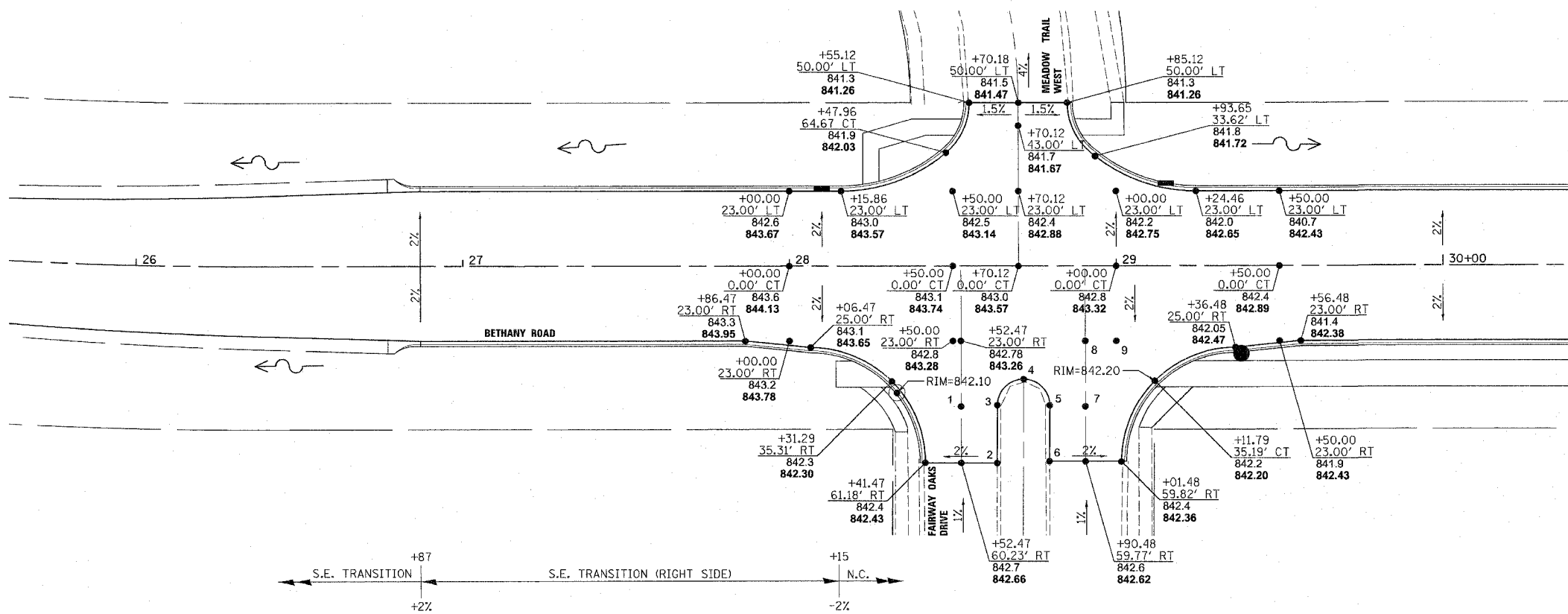
REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
 BETHANY ROAD WIDENING
 FAIRWAY OAKS DRIVE TO RESOURCE PARKWAY
 CITY OF DEKALB
 DRAINAGE SCHEDULE
 BETHANY ROAD

SCALE: N.T.S.
 DATE: 8/17/07
 DRAWN BY: KMA
 CHECKED BY: BP

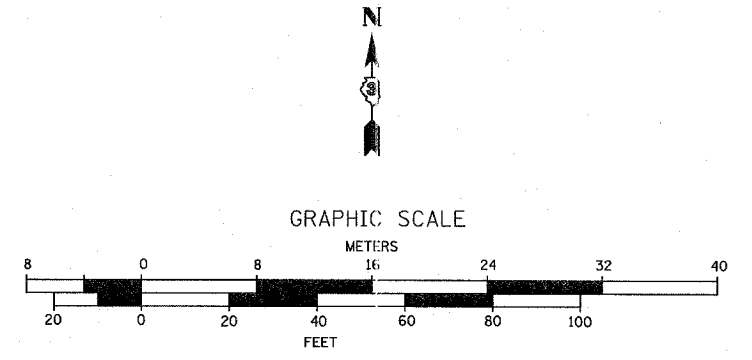
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
5355	04-00167-00-WR	DEKALB	62	25
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

PT.	STA.	OFFSET	ELEVATION	
			EXIST.	PROP.
1	+52.47	43.00' RT	842.6	842.60
2	+63.47	60.29' RT	842.9	842.87
3	+63.56	42.58' RT	842.7	842.71
4	+71.60	34.62' RT	842.7	842.69
5	+79.56	42.66' RT	842.7	842.68
6	+79.48	59.71' RT	842.8	842.84
7	+90.48	43.00' RT	842.5	842.46
8	+90.48	23.00' RT	842.5	842.94
9	+00.00	23.00' RT	842.4	842.86



LEGEND

- PARTIAL STATION
- OFFSET
- EX. SPOT ELEV.
- PROP. SPOT ELEV.



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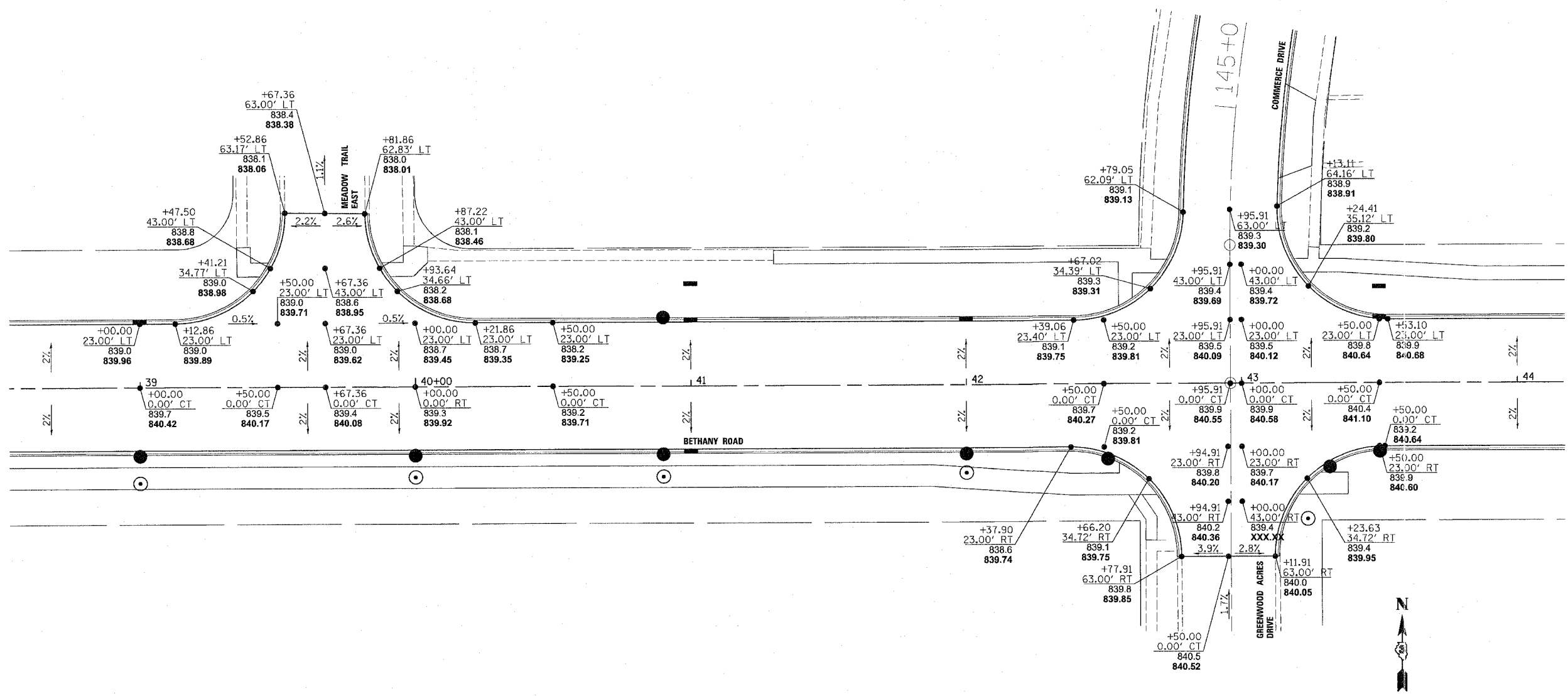
RHA&A
 Robert H. Anderson & Associates, Inc.
 Consulting Engineers
 Timbers Professional Center
 220 West River Drive, St. Charles, IL 60174
 Phone - 630.584.3530 Fax - 630.584.3047

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
 BETHANY ROAD WIDENING
 FAIRWAY OAKS DRIVE TO RESOURCE PARKWAY
 CITY OF DEKALB
 INTERSECTION DETAIL
 FAIRWAY OAKS / MEADOW TRAIL WEST

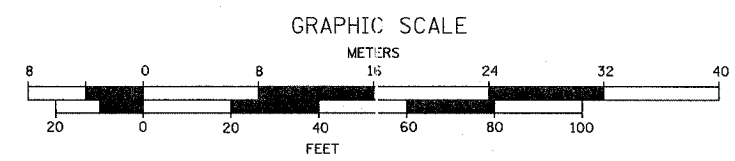
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 DATE: 8/17/07
 DRAWN BY: KMA
 CHECKED BY: BP

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
5355	04-00167-00-WR	DEKALB	62	26
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



LEGEND

- PARTIAL STATION OFFSET
- EX. SPOT ELEV.
- PROP. SPOT ELEV.



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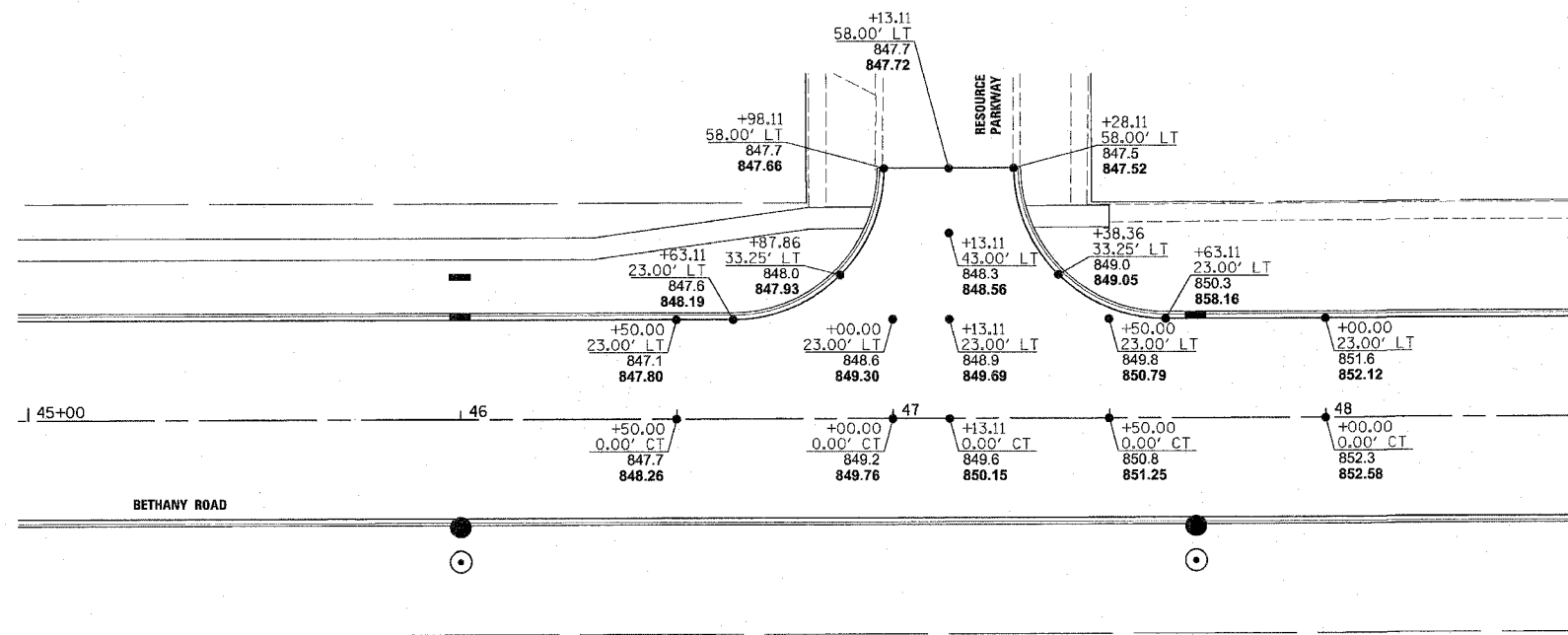
REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
 BETHANY ROAD WIDENING
 FAIRWAY OAKS DRIVE TO RESOURCE PARKWAY
 CITY OF DEKALB

INTERSECTION DETAIL
 MEADOW TRAIL EAST
 & COMMERCE DR. / GREENWOOD ACRES DR.

SCALE: 1"=20'
 DATE 8/17/07
 DRAWN BY KMA
 CHECKED BY BP

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
5355	04-00167-00-WR	DEKALB	62	27
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

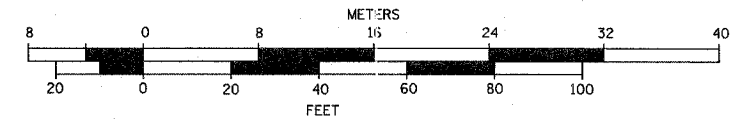


LEGEND

- PARTIAL STATION OFFSET
- EX. SPOT ELEV.
- ▲ PROP. SPOT ELEV.



GRAPHIC SCALE



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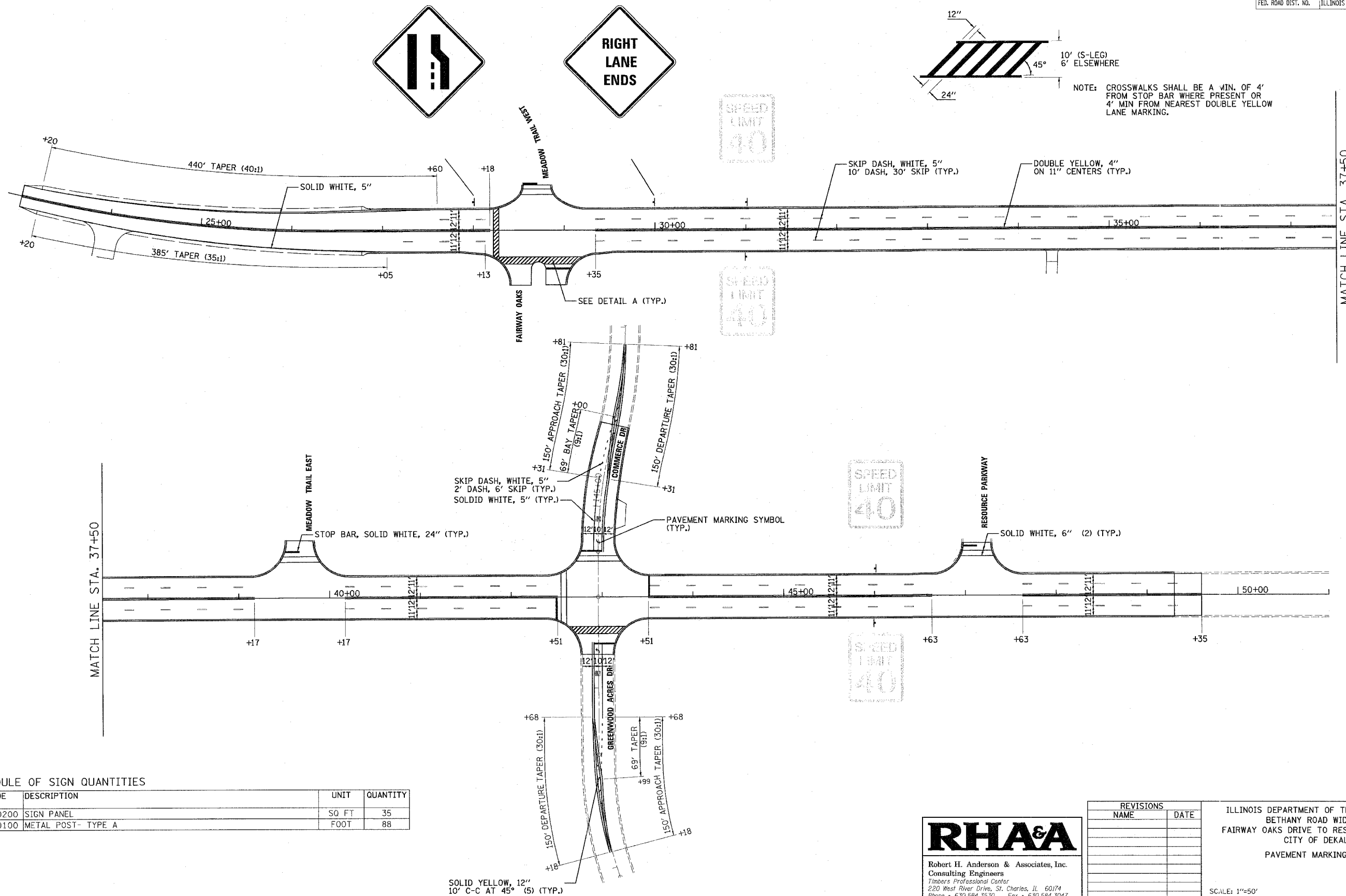
RH&A
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 Timbers Professional Center
 220 West River Drive, St. Charles, IL 60174
 Phone - 630.584.3530 Fax - 630.584.3047

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
 BETHANY ROAD WIDENING
 FAIRWAY OAKS DRIVE TO RESOURCE PARKWAY
 CITY OF DEKALB
 INTERSECTION DETAIL
 RESOURCE PARKWAY

SCALE: 1"=20'
 DATE: 8/17/07
 DRAWN BY: KMA
 CHECKED BY: BP

F.A.J. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
5355	04-00167-00-WR	DEKALB	62	28
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



MATCH LINE STA. 37+50

MATCH LINE STA. 37+50

SCHEDULE OF SIGN QUANTITIES

CODE	DESCRIPTION	UNIT	QUANTITY
72000200	SIGN PANEL	SQ FT	35
72900100	METAL POST- TYPE A	FOOT	88

SOLID YELLOW, 12"
10' C-C AT 45° (5) (TYP.)

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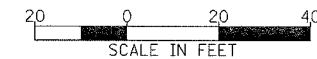
REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
 BETHANY ROAD WIDENING
 FAIRWAY OAKS DRIVE TO RESOURCE PARKWAY
 CITY OF DEKALB
 PAVEMENT MARKING PLAN

SCALE: 1"=50'
 DATE: 8/17/07
 DRAWN BY: TC
 CHECKED BY:

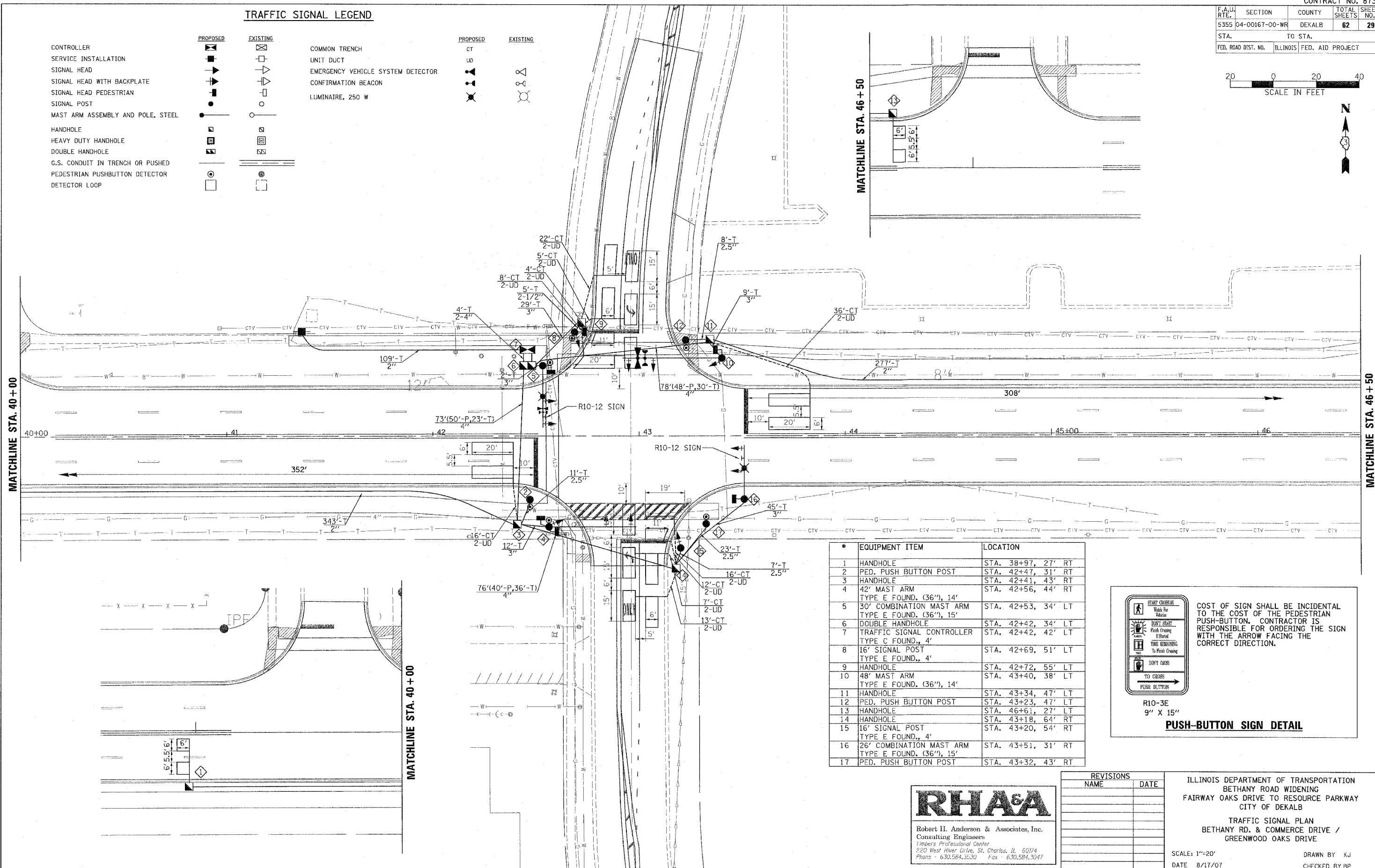
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 USER NAME = USER

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
5355	04-00167-00-WR	DEKALB	62	29
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



TRAFFIC SIGNAL LEGEND

PROPOSED	EXISTING	PROPOSED	EXISTING
CONTROLLER	[Symbol]	COMMON TRENCH	[Symbol]
SERVICE INSTALLATION	[Symbol]	UNIT DUCT	[Symbol]
SIGNAL HEAD	[Symbol]	EMERGENCY VEHICLE SYSTEM DETECTOR	[Symbol]
SIGNAL HEAD WITH BACKPLATE	[Symbol]	CONFIRMATION BEACON	[Symbol]
SIGNAL HEAD PEDESTRIAN	[Symbol]	LUMINAIRE, 250 W	[Symbol]
SIGNAL POST	[Symbol]		
MAST ARM ASSEMBLY AND POLE, STEEL	[Symbol]		
HANDHOLE	[Symbol]		
HEAVY DUTY HANDHOLE	[Symbol]		
DOUBLE HANDHOLE	[Symbol]		
G.S. CONDUIT IN TRENCH OR PUSHED	[Symbol]		
PEDESTRIAN PUSHBUTTON DETECTOR	[Symbol]		
DETECTOR LOOP	[Symbol]		



#	EQUIPMENT ITEM	LOCATION
1	HANDHOLE	STA. 38+97, 27' RT
2	PED. PUSH BUTTON POST	STA. 42+47, 31' RT
3	HANDHOLE	STA. 42+41, 43' RT
4	42' MAST ARM TYPE E FOUND. (36"), 14'	STA. 42+56, 44' RT
5	30' COMBINATION MAST ARM TYPE E FOUND. (36"), 15'	STA. 42+53, 34' LT
6	DOUBLE HANDHOLE	STA. 42+42, 34' LT
7	TRAFFIC SIGNAL CONTROLLER TYPE C FOUND., 4'	STA. 42+42, 42' LT
8	16' SIGNAL POST TYPE E FOUND., 4'	STA. 42+69, 51' LT
9	HANDHOLE	STA. 42+72, 55' LT
10	48' MAST ARM TYPE E FOUND. (36"), 14'	STA. 43+40, 38' LT
11	HANDHOLE	STA. 43+34, 47' LT
12	PED. PUSH BUTTON POST	STA. 43+23, 47' LT
13	HANDHOLE	STA. 46+61, 27' LT
14	HANDHOLE	STA. 43+18, 64' RT
15	16' SIGNAL POST TYPE E FOUND., 4'	STA. 43+20, 54' RT
16	26' COMBINATION MAST ARM TYPE E FOUND. (36"), 15'	STA. 43+51, 31' RT
17	PED. PUSH BUTTON POST	STA. 43+32, 43' RT

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
 BETHANY ROAD WIDENING
 FAIRWAY OAKS DRIVE TO RESOURCE PARKWAY
 CITY OF DEKALB

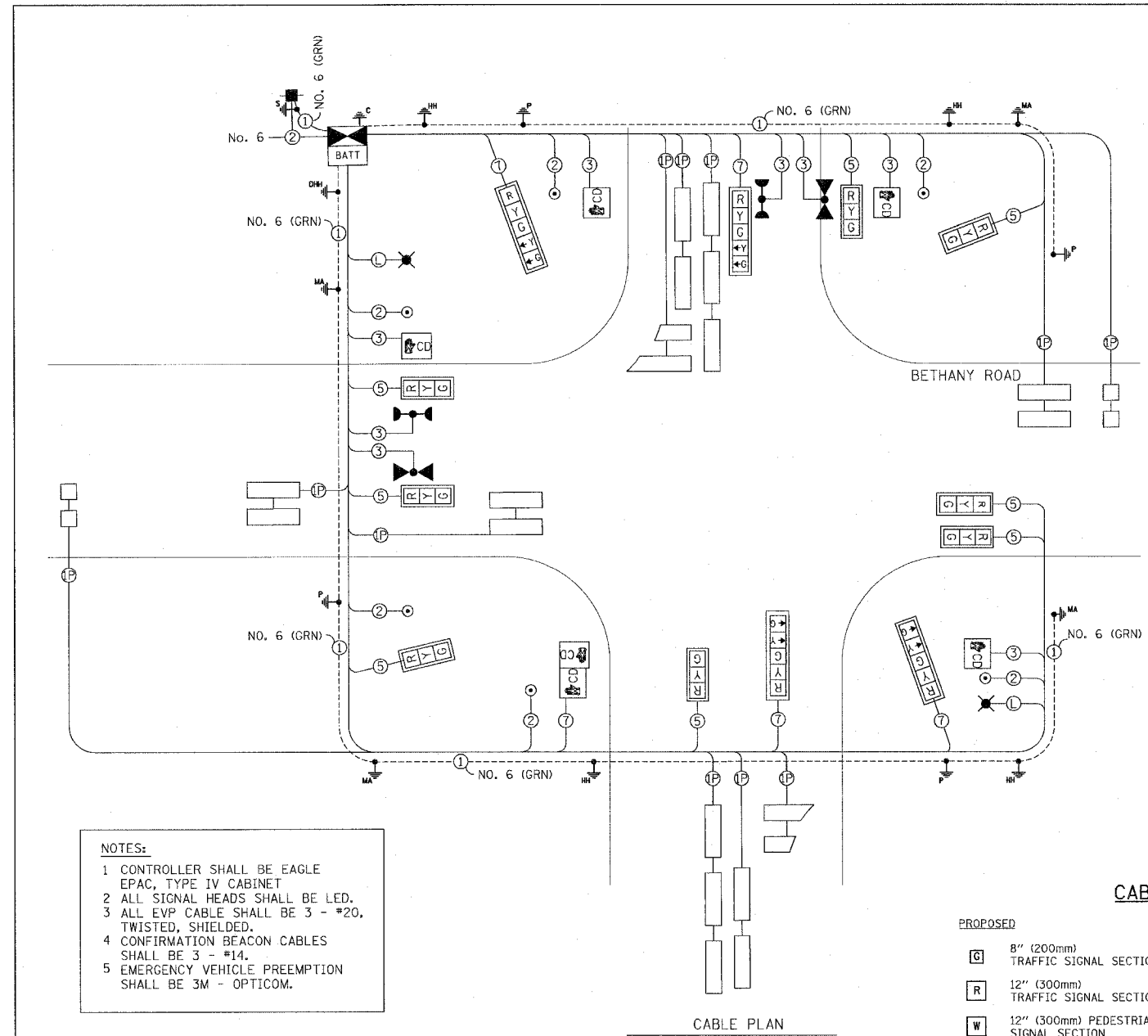
TRAFFIC SIGNAL PLAN
 BETHANY RD. & COMMERCE DRIVE /
 GREENWOOD OAKS DRIVE

SCALE: 1"=20'
 DATE 8/17/07

DRAWN BY KJ
 CHECKED BY BP

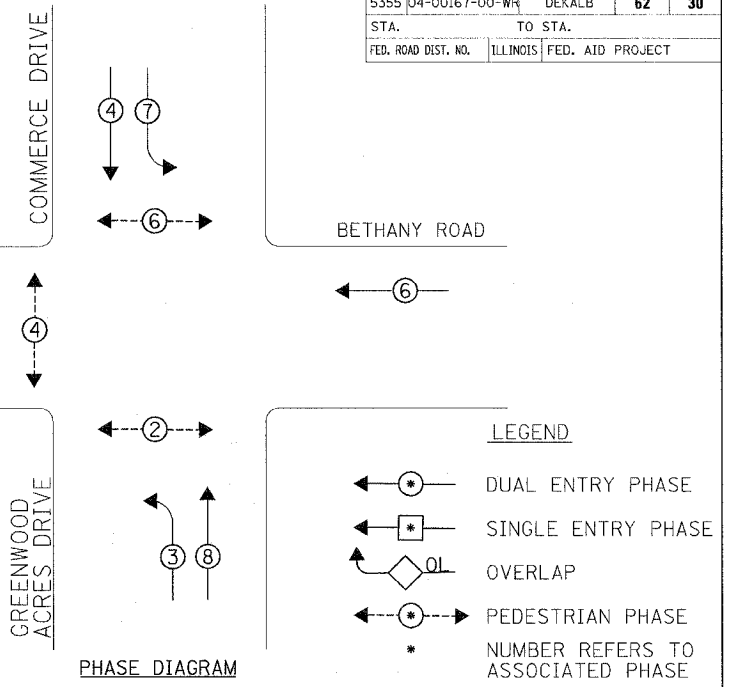
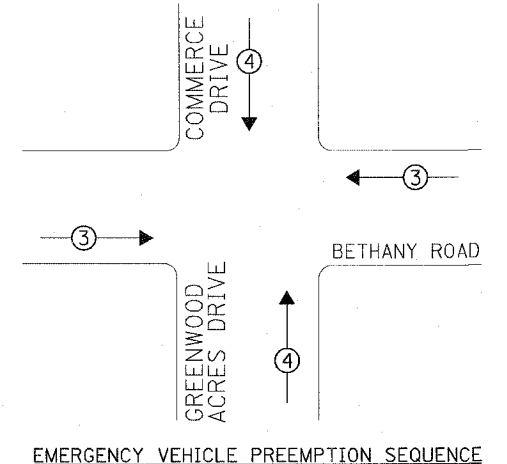
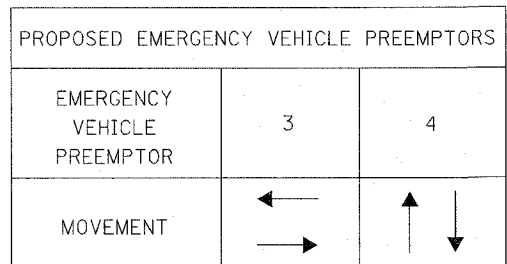
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F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
5355	04-00167-00-WF	DEKALB	62	30
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		



NOTES:

- 1 CONTROLLER SHALL BE EAGLE EPAC, TYPE IV CABINET
- 2 ALL SIGNAL HEADS SHALL BE LED.
- 3 ALL EVP CABLE SHALL BE 3 - #20, TWISTED, SHIELDED.
- 4 CONFIRMATION BEACON CABLES SHALL BE 3 - #14.
- 5 EMERGENCY VEHICLE PREEMPTION SHALL BE 3M - OPTICOM.



SUMMARY OF TRAFFIC SIGNAL QUANTITIES

CODE	DESCRIPTION	UNIT	TOTAL QUANTITY
70106800	CHANGEABLE MESSAGE SIGN	CAL MO	2
72000100	SIGN PANEL, TYPE 1	SQ FT	20
72000200	SIGN PANEL, TYPE 2	SQ FT	85
80500200	SERVICE INSTALLATION, TYPE B	EACH	1
81012600	CONDUIT IN TRENCH, 2" DIA., PVC	FOOT	778
81012700	CONDUIT IN TRENCH, 2-1/2" DIA., PVC	FOOT	75
81012800	CONDUIT IN TRENCH, 3" DIA., PVC	FOOT	76
81013000	CONDUIT IN TRENCH, 4" DIA., PVC	FOOT	97
81018900	CONDUIT, PUSHED 4" DIA., GALVANIZED STEEL	FOOT	138
81400700	HANDHOLE, PORTLAND CEMENT CONCRETE	EACH	5
81400720	DOUBLE HANDHOLE, PORTLAND CEMENT CONCRETE	EACH	1
81702120	ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 1/C NO. 8	FOOT	1,000
81900200	TRENCH AND BACKFILL FOR ELECTRICAL WORK	FOOT	851
82102250	LUMINAIRE, SODIUM VAPOR, HORIZONTAL MOUNT, 250 WATT	EACH	2
82500605	LIGHTING CONTROLLER PHOTCELL RELAY	EACH	1
85700200	FULL-ACTUATED CONTROLLER AND TYPE IV CABINET	EACH	1
87301215	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C	FOOT	700
87301225	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	500
87301245	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	FOOT	1,300
87301255	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C	FOOT	700
87301305	ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1 PAIR	FOOT	1,800
87301805	ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2 C	FOOT	125
87502500	TRAFFIC SIGNAL POST, GALVANIZED STEEL 16 FT.	EACH	2
87601100	PEDESTRIAN PUSH-BUTTON POST, GALVANIZED STEEL, TYPE I	EACH	3
87700250	STEEL MAST ARM ASSEMBLY AND POLE 42 FT.	EACH	1
87700280	STEEL MAST ARM ASSEMBLY AND POLE 48 FT.	EACH	1
87702860	STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 26 FT.	EACH	1
87702880	STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 30 FT.	EACH	1
87800100	CONCRETE FOUNDATION, TYPE A	FOOT	8
87800150	CONCRETE FOUNDATION, TYPE C	FOOT	4
87800415	CONCRETE FOUNDATION, TYPE E 36-INCH DIAMETER	FOOT	58
88040070	SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED	EACH	2
88040090	SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, 3-SECTION, MAST ARM MOUNTED	EACH	6
88040150	SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED	EACH	2
88040160	SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, 5-SECTION, MAST ARM MOUNTED	EACH	2
88102717	PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER	EACH	6
88200410	TRAFFIC SIGNAL BACKPLATE, LOUVERED, FORMED PLASTIC	EACH	12
88500100	INDUCTIVE LOOP DETECTOR	EACH	12
88600100	DETECTOR LOOP, TYPE I	FOOT	1,092
88700200	LIGHT DETECTOR	EACH	4
88700300	LIGHT DETECTOR AMPLIFIER	EACH	1
88800100	PEDESTRIAN PUSH-BUTTON	EACH	6
X0323885	TRAFFIC SIGNAL BATTERY BACKUP SYSTEM	EACH	1
X8730027	ELECTRIC CABLE IN CONDUIT, GROUNDING, NO. 6 1C	FOOT	500

CABLE PLAN LEGEND

- PROPOSED**
- 8" (200mm) TRAFFIC SIGNAL SECTION
 - 12" (300mm) TRAFFIC SIGNAL SECTION
 - 12" (300mm) PEDESTRIAN SIGNAL SECTION
 - 16"x18" PEDESTRIAN SIGNAL SECTION
 - CONTROLLER CABINET
 - SERVICE INSTALLATION
 - TELEPHONE CONNECTION
 - MAGNETIC DETECTOR
 - EMERGENCY VEHICLE LIGHT DETECTOR
 - CONFIRMATION BEACON
 - PUSHBUTTON DETECTOR
 - VEHICLE DETECTOR, INDUCTION LOOP
 - MICROWAVE VEHICLE SENSOR
 - BATTERY BACKUP
 - LUMINAIRE, 250 W
- PROPOSED**
- SIGNAL FACE WITH BACKPLATE, "P" INDICATES PROGRAMMED HEAD
 - RAILROAD CONTROL CABINET
 - ILLUMINATED SIGN, FIBER OPTIC "NO LEFT TURN"
 - ILLUMINATED SIGN, FIBER OPTIC "NO RIGHT TURN"
 - GROUND ROD AT HANDHOLE (H), OR MAST ARM POLE (MA)
 - GROUND ROD AT ELECTRIC SERVICE INSTALLATION
 - GROUND CABLE IN CONDUIT NO. 6 SOLID COPPER (GREEN)
 - FIBER OPTIC CABLE IN CONDUIT NO. 62.5/125 MM24F SM12F
 - LEAD IN CABLE, 1 PAIR
 - ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 1/C NO. 8 (3 CABLES)

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

TYPE	NO. LAMPS	WATTAGE (INCAND.)	WATTAGE (LED)	% OPERATION	TOTAL WATTAGE
SIGNAL (RED)	12		17	0.50	102
(YELLOW)	12		25	0.25	75
(GREEN)	12		15	0.25	45
ARROW	8		12	0.25	24
PED. SIGNAL	6		25	1.00	150
CONTROLLER	1	100		1.00	100
LOOP DETECTORS	10	4		1.00	40
UPS	1	50		1.00	50
TOTAL =					586

FOUNDATION (DEPTH)	FT. (m)	CABLE SLACK	FT. (m)	VERTICAL	FT. (m)
TY A - POST	4 (1.2)	HANDHOLE	6.5 (2.0)	ALL FOUNDATIONS	3.5 (1.0)
TY C - CONTR. W/UPS	4 (1.2)	DOUBLE HANDHOLE	13 (4.0)	MAST ARM (L) POLE	20'+L-2=
TY E (36")- M.A. POLE		SIGNAL POST	2 (1.0)		(6m+L-0.6m)=
COMBO. POLES	15 (3.0)	CONTROLLER CAB.	1 (0.5)	BRACKET MOUNTED	13 (4.0)
SIGNAL MAST ARM	14 (4.6)	FIBER OPTIC	13 (4.0)	PED. PUSHBUTTON	4 (1.2)
		ELECTRIC SERVICE	1 (0.5)	ELECTRIC SERVICE	13.5 (4.1)
		GROUND CABLE	1 (0.5)	SERVICE TO GROUND	13.5 (4.1)
				POST MOUNTED	6 (1.8)

RH&A
Robert H. Anderson & Associates, Inc.
Timbers Professional Center
220 West River Drive, St. Charles, IL 60174
Phone - 630.584.3530 Fax - 630.584.3047

REVISIONS

NAME	DATE

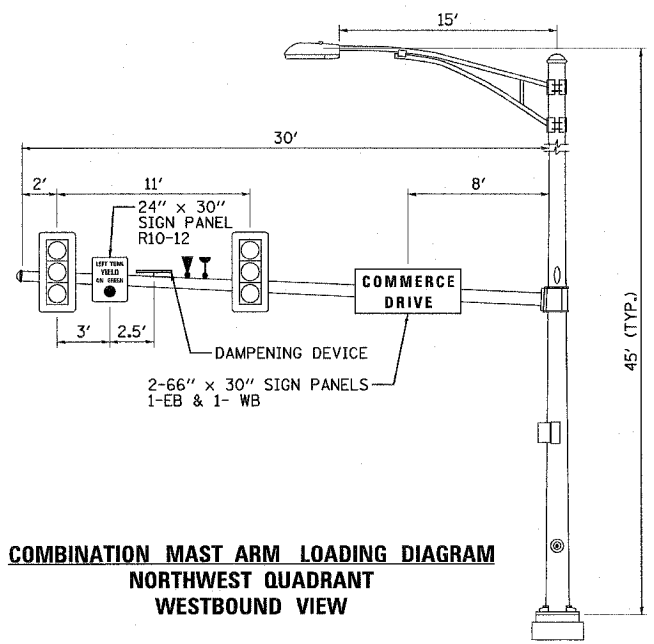
ILLINOIS DEPARTMENT OF TRANSPORTATION
BETHANY ROAD WIDENING
FAIRWAY OAKS DRIVE TO RESOURCE PARKWAY
CITY OF DEKALB

CABLE PLAN
BETHANY RD. & COMMERCE DRIVE /
GREENWOOD OAKS DRIVE

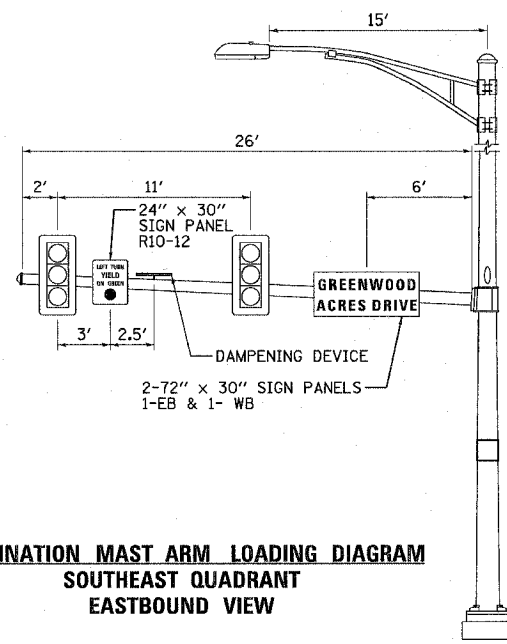
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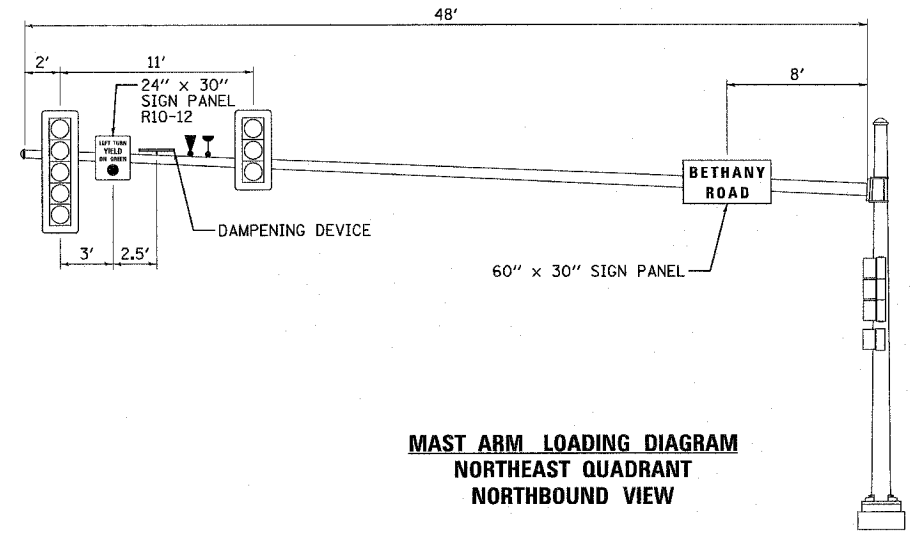
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STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



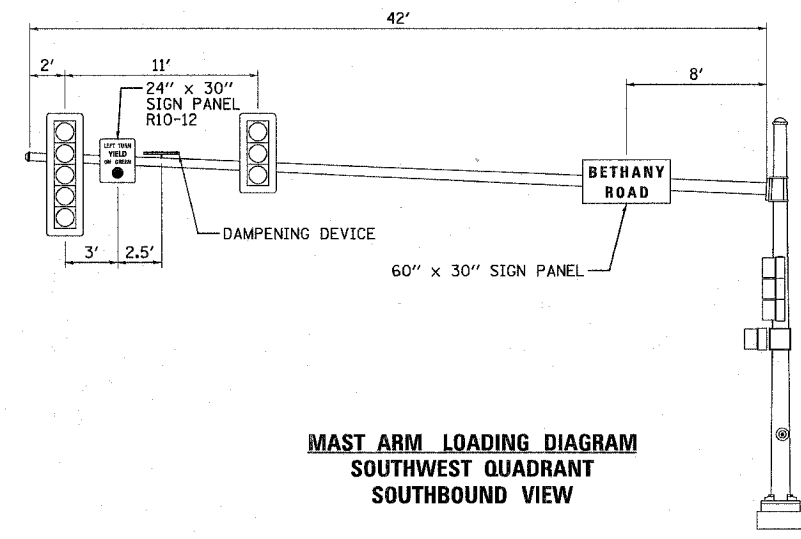
COMBINATION MAST ARM LOADING DIAGRAM
NORTHWEST QUADRANT
WESTBOUND VIEW



COMBINATION MAST ARM LOADING DIAGRAM
SOUTHEAST QUADRANT
EASTBOUND VIEW



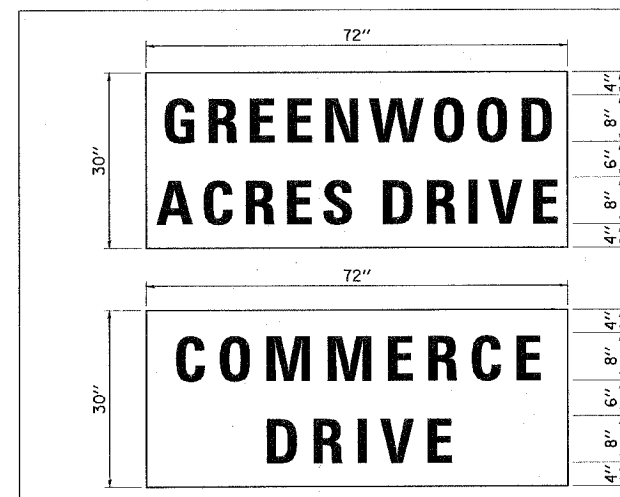
MAST ARM LOADING DIAGRAM
NORTHEAST QUADRANT
NORTHBOUND VIEW



MAST ARM LOADING DIAGRAM
SOUTHWEST QUADRANT
SOUTHBOUND VIEW

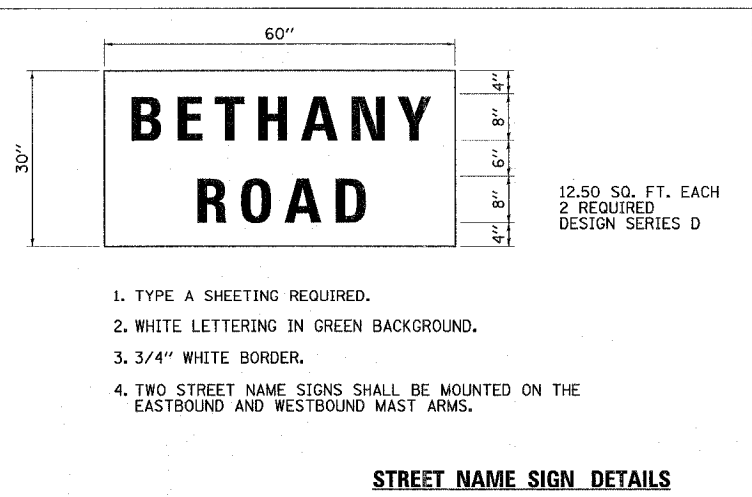
TRAFFIC SIGNAL GENERAL NOTES

1. ALL TRAFFIC SIGNAL HEADS SHALL BE 12" POLYCARBONATE.
2. THE TRAFFIC SIGNAL HEADS SHALL BE PROPERLY COVERED PRIOR TO TURN-ON. THIS COST SHALL BE INCLUDED IN THE COST OF THE RESPECTIVE SIGNAL PAY ITEMS.
3. A 1/4" DIAMETER RODENT RESISTANT NYLON ROPE SHALL BE FURNISHED AND LEFT IN PLACE ON ALL CONDUITS BETWEEN HANDHOLES AND FOUNDATIONS OR CONTROLLER. THIS COST SHALL BE INCLUDED IN THE COST OF CONDUIT PAY ITEMS.
4. THE CONTRACTOR SHALL ARRANGE FOR A FACTORY OR SUPPLIER REPRESENTATIVE OF THE SIGNAL CONTROLLER TO BE PRESENT AT THE INTERSECTION WHEN THE SIGNAL IS TURNED ON. THIS COST SHALL BE INCLUDED IN THE COST OF THE SIGNAL CONTROLLER PAY ITEM.
5. ALL CONDUIT IN TRENCH SHALL BE P.V.C.. ALL CONDUIT PUSHED MAY BE P.V.C. OR GALVANIZED STEEL.
6. NO ADDITIONAL COMPENSATION WILL BE ALLOWED FOR PLACING CONDUIT AT A GREATER THAN 2 FT. MINIMUM DEPTH TO AVOID SUCH OBSTACLES SUCH AS UNDERGROUND UTILITIES.
7. ALL MAST ARM MOUNTED SIGNAL HEADS ON THE SAME MAST ARM SHALL BE MOUNTED SO THAT THE RED INDICATIONS ARE LEVEL WITH EACH OTHER.
8. THE ELECTRICAL CONDUCTORS FOR ALL TRAFFIC SIGNAL HEADS SHALL BE SOLID, SOFT COPPER.
9. DETECTOR LOOP INSTALLATION SHALL BE COMPLETED AFTER PLACEMENT OF THE BINDER COURSE AND PRIOR TO THE PLACEMENT OF THE SURFACE COURSE.
10. ALL THREADS OF BOLTS USED IN THE ASSEMBLY OF TRAFFIC SIGNAL COMPONENTS SHALL BE COATED WITH A NON-LEAD BASED ANTI-SEIZE COMPOUND, SIMILAR TO LEAD PLATE, PRIOR TO ASSEMBLY.
11. ALL HARDWARE SHALL BE TIGHTENED AND WELL SECURED, CABLES SHALL BE NEATLY WOUND IN HANDHOLES. CABLES SHALL BE NEATLY TRAINED IN THE CONTROLLER CABINET.
12. ALL SIGNAL BASES SHALL BE LOCATED A MINIMUM OF 6 FT. FROM THE FACE OF CURB UNLESS OTHERWISE DIRECTED BY THE ENGINEER.
13. ALL TRAFFIC SIGNAL WIRING SHALL EXTEND FROM THE CONTROLLER TO THE SIGNAL. SPLICES IN JUNCTION BOXES WILL NOT BE ALLOWED.
14. DETECTOR LOOP ON THE SAME LANE SHALL BE WOUND CLOCKWISE AND COUNTERCLOCKWISE IN ALTERNATING ORDER. LOOPS IN ADJACENT LANES SHALL BE WOUND ALL THE SAME.
15. THE CONTROLLER CABINET SHALL BE PLACES SO THAT A TECHNICIAN MAY SEE THE INTERSECTION OVER THE TOP OF THE CABINET WHILE WATCHING THE COMPONENTS IN THE CABINET.
16. THE PROPOSED TRAFFIC SIGNAL CONTROLLER CABINET SHALL BE FURNISHED WITH A MANUAL CONTROL SWITCH AND MANUAL CONTROL CORD WITHIN THE POLICE DOOR COMPARTMENT. THIS WORK SHALL BE INCLUDED IN THE COST OF THE CONTROLLER CABINET PAY ITEM.
17. THE CONTRACTOR SHALL PROVIDE A SELF-ADHERED PHASE DIAGRAM ON THE INSIDE OF THE CONTROLLER CABINET DOOR.
18. ALL DETECTOR LOOP AMPLIFIERS SHALL BE CARD RACK MOUNTED AND FURNISHED WITH PLASTIC TAGS LABELED WITH RESPECTIVE PHASES AND DIRECTION LISTED IN THE DETECTOR LOOP CHART. A MINIMUM TAG SIZE OF 3/8 IN. X 3/4 IN. IS REQUIRED. TAGS SHALL BE MADE OF MATERIAL THAT DOES NOT ALLOW WRITING TO FADE OVER TIME.
19. THE LENGTH OF THE DETECTOR LOOP CABLE FROM THE CURB TO THE JUNCTION BOX OR HANDHOLE IS INCLUDED IN THE DETECTOR LOOP PAY ITEM.
20. DOUBLE HANDHOLES SHALL BE FURNISHED WITH RECESSED, INTEGRAL HINGED LIDS.
21. THE ELEVATION OF THE LID OF THE DOUBLE HANDHOLE SHALL BE LOWER THAN THE ELEVATION OF THE TOP OF THE CONTROLLER CABINET FOUNDATION.
22. ALL GROUNDING MATERIALS FOR THE TRAFFIC SIGNALS CONCRETE FOUNDATIONS SHALL REFER TO SECTION 807 OF THE STANDARD SPECIFICATIONS.
23. DOUBLE FUSE HOLDERS AND SURGE ARRESTORS SHALL BE SUPPLIED AND INSTALLED BY THE CONTRACTOR IN THE BASE OF THE COMBINATION MAST ARM POLES. COST OF WHICH SHALL BE INCLUDED IN THE LUMINAIRE PAY ITEM.
24. ALL AREAS DISTURBED BY THE CONTRACTOR SHALL BE RESTORED WITH SEED TO THE SATISFACTION OF THE ENGINEER.
25. THE CONTRACTOR SHALL PROVIDE TWO PORTABLE CHANGEABLE MESSAGE SIGNS, ONE EACH FOR BOTH EASTBOUND AND WESTBOUND LANES APPROXIMATELY 700 FT. TO 1000 FT. IN ADVANCE OF THE NEW SIGNALS. ONE WEEK PRIOR TO TURN-ON, THE FIRST MESSAGE ON BOTH SIGNS SHALL READ "NEW SIGNALS AHEAD" AND THE SECOND MESSAGE SHALL BE THE DATE OF THE SIGNAL TURN-ON. ONCE THE SIGNAL HAS BEEN TURNED ON, THE FIRST MESSAGE ON BOTH SIGNS SHALL READ FOR THE SUBSEQUENT 3 WEEKS, "NEW SIGNAL AHEAD" AND THE SECOND MESSAGE SHALL READ, "BE PREPARED TO STOP".
26. FOUNDATION LOCATIONS ARE GENERAL GUIDELINES AND MUST BE FIELD VERIFIED FOR POSSIBLE OVERHEAD AND UNDERGROUND UTILITY CONFLICTS.



15.00 SQ. FT. EACH
2 REQUIRED
DESIGN SERIES D

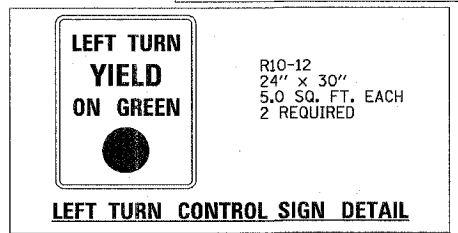
15.00 SQ. FT. EACH
2 REQUIRED
DESIGN SERIES D



12.50 SQ. FT. EACH
2 REQUIRED
DESIGN SERIES D

STREET NAME SIGN DETAILS

1. TYPE A SHEETING REQUIRED.
2. WHITE LETTERING IN GREEN BACKGROUND.
3. 3/4" WHITE BORDER.
4. TWO STREET NAME SIGNS SHALL BE MOUNTED ON THE EASTBOUND AND WESTBOUND MAST ARMS.



LEFT TURN CONTROL SIGN DETAIL

NOTES

1. ALL MAST ARM FOUNDATIONS TO BE 36" DIAMETER.
2. DAMPENING DEVICES SHALL CONSIST OF A 24" X 30" TYPE I, UNPAINTED ALUMINUM SIGN STOCK MOUNTED HORIZONTALLY ON THE TOP OF THE MAST ARM WITH THE 30" LENGTH PERPENDICULAR TO THE ARM. COST OF THE DAMPENING DEVICE SHALL BE INCLUDED IN THE MAST ARM PAY ITEM.
3. THE LUMINAIRE MAST ARM SHALL BE PARALLEL TO THE SIGNAL MAST ARM.

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
BETHANY ROAD WIDENING
FAIRWAY OAKS DRIVE TO RESOURCE PARKWAY
CITY OF DEKALB

MAST ARM LOADING DIAGRAMS
BETHANY RD. & COMMERCE DRIVE /
GREENWOOD OAKS DRIVE

SCALE: N.T.S. DRAWN BY KJ
DATE 8/17/07 CHECKED BY BP

RH&A
Robert H. Anderson & Associates, Inc.
Consulting Engineers
Timbers Professional Center
220 West River Drive, St. Charles, IL 60174
Phone - 630.584.3530 Fax - 630.584.3047

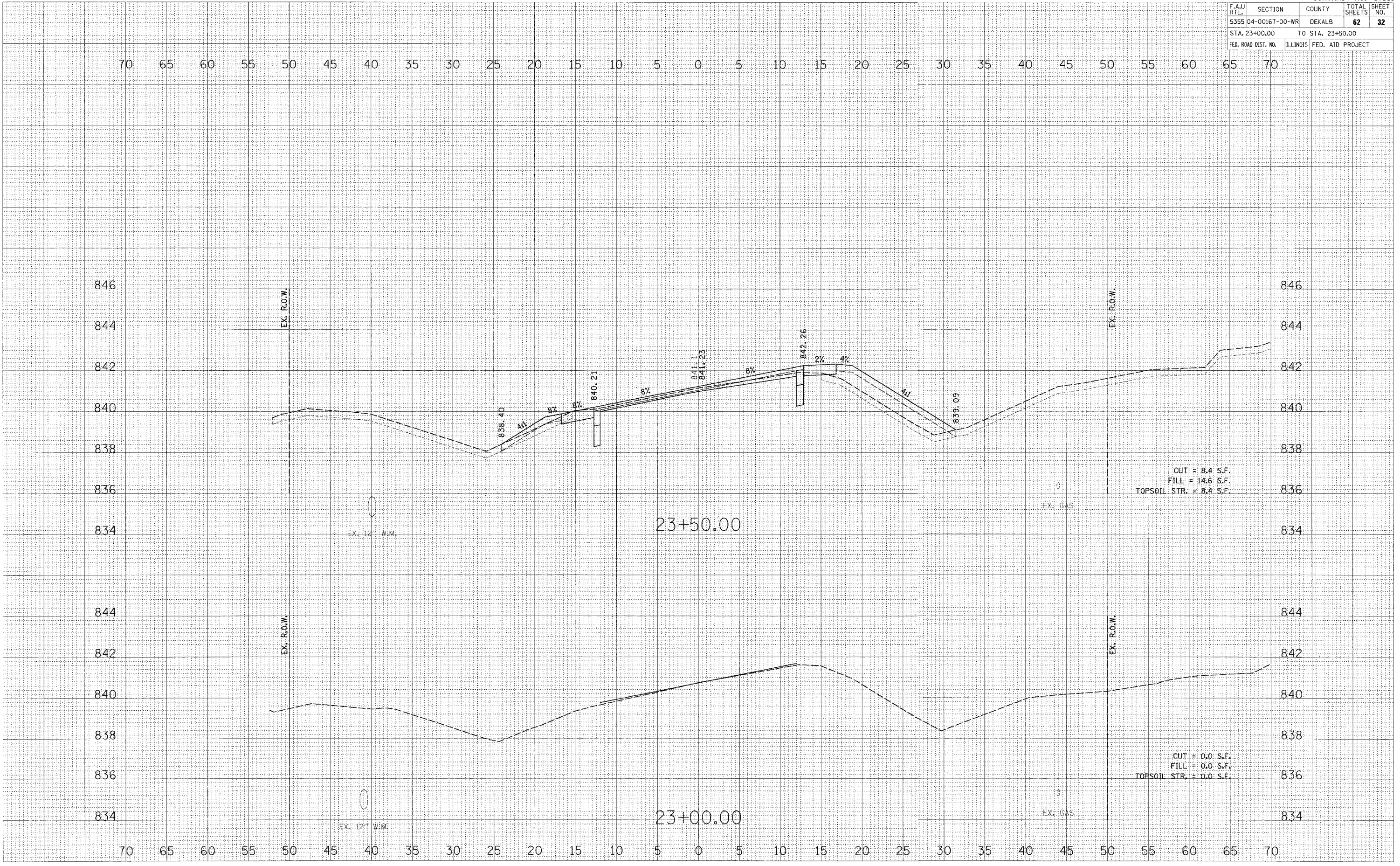
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STA. 23+00.00		TO STA. 23+50.00		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

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

ORIGINAL SURVEY	SURVEYED	BY	DATE
NO.	PLOTTED		
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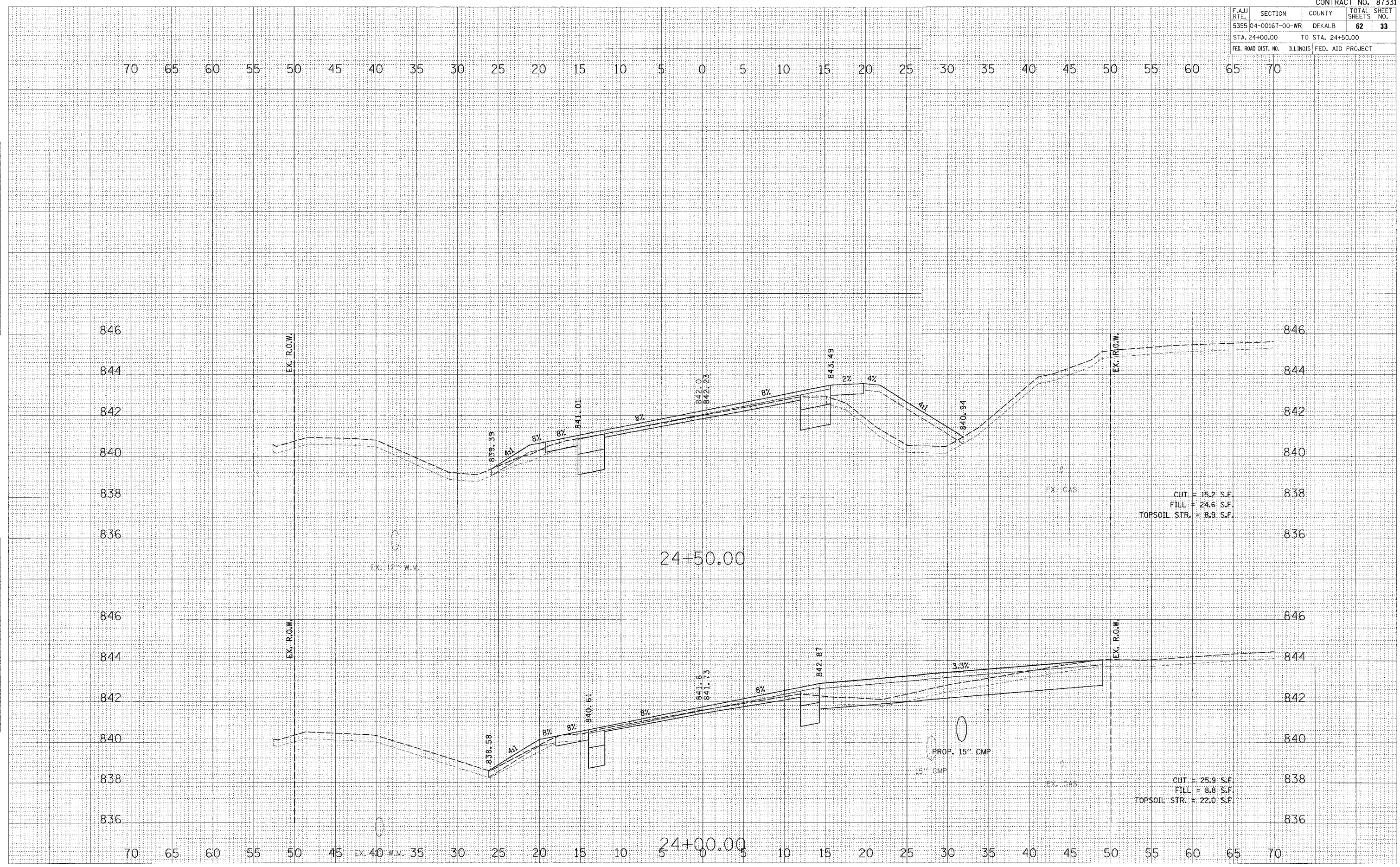
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FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

FINAL SURVEY
 SURVEYED BY: _____
 NOTE BOOK NO.: _____
 TEMPLATE NO.: _____
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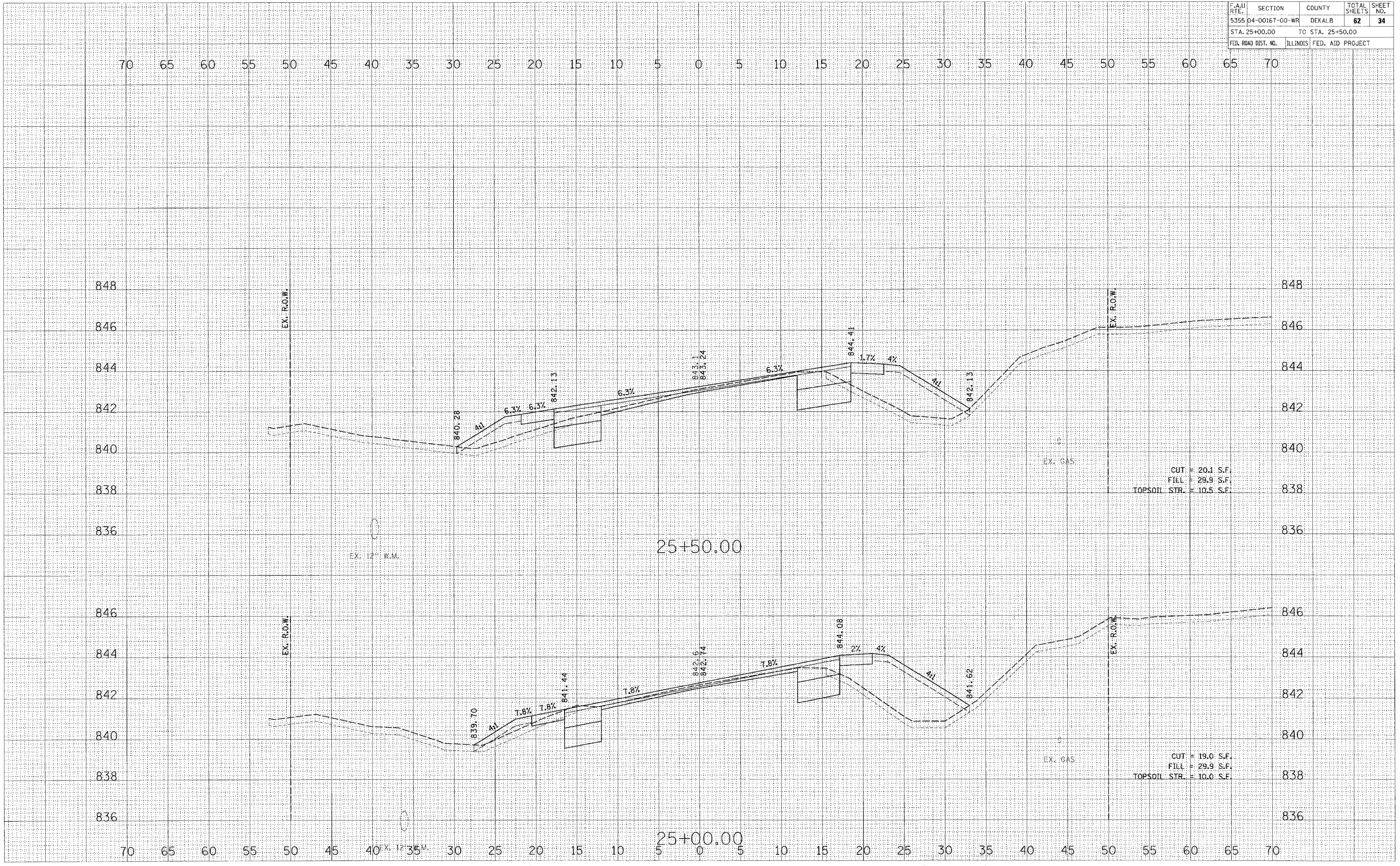


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FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

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

BY:	DATE:
ORIGINAL SURVEY	SURVEYED
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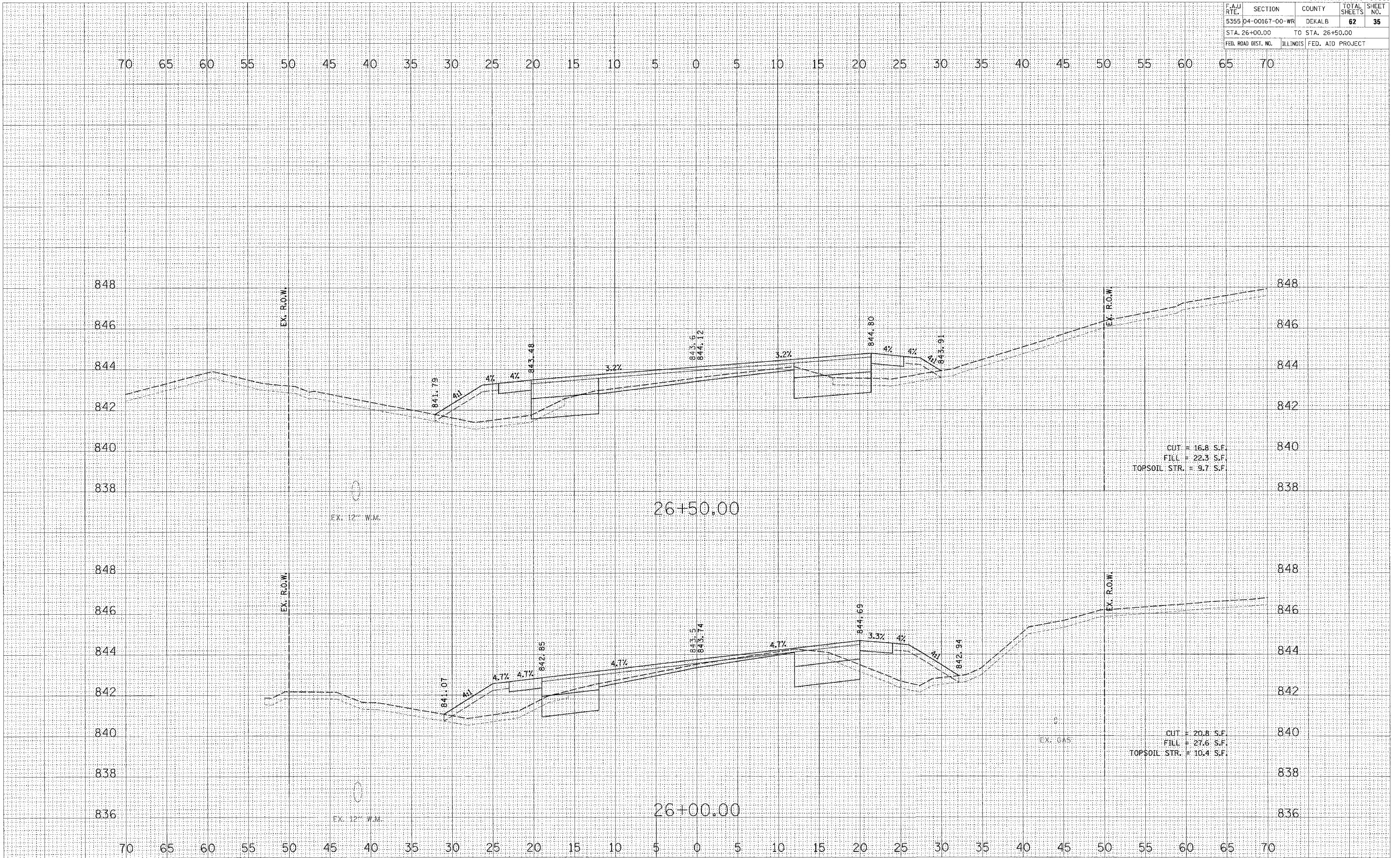


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FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

FINAL SURVEY	DATE
SURVEY	
BY	
NO.	
AREAS CHECKED	

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BY	
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AREAS CHECKED	

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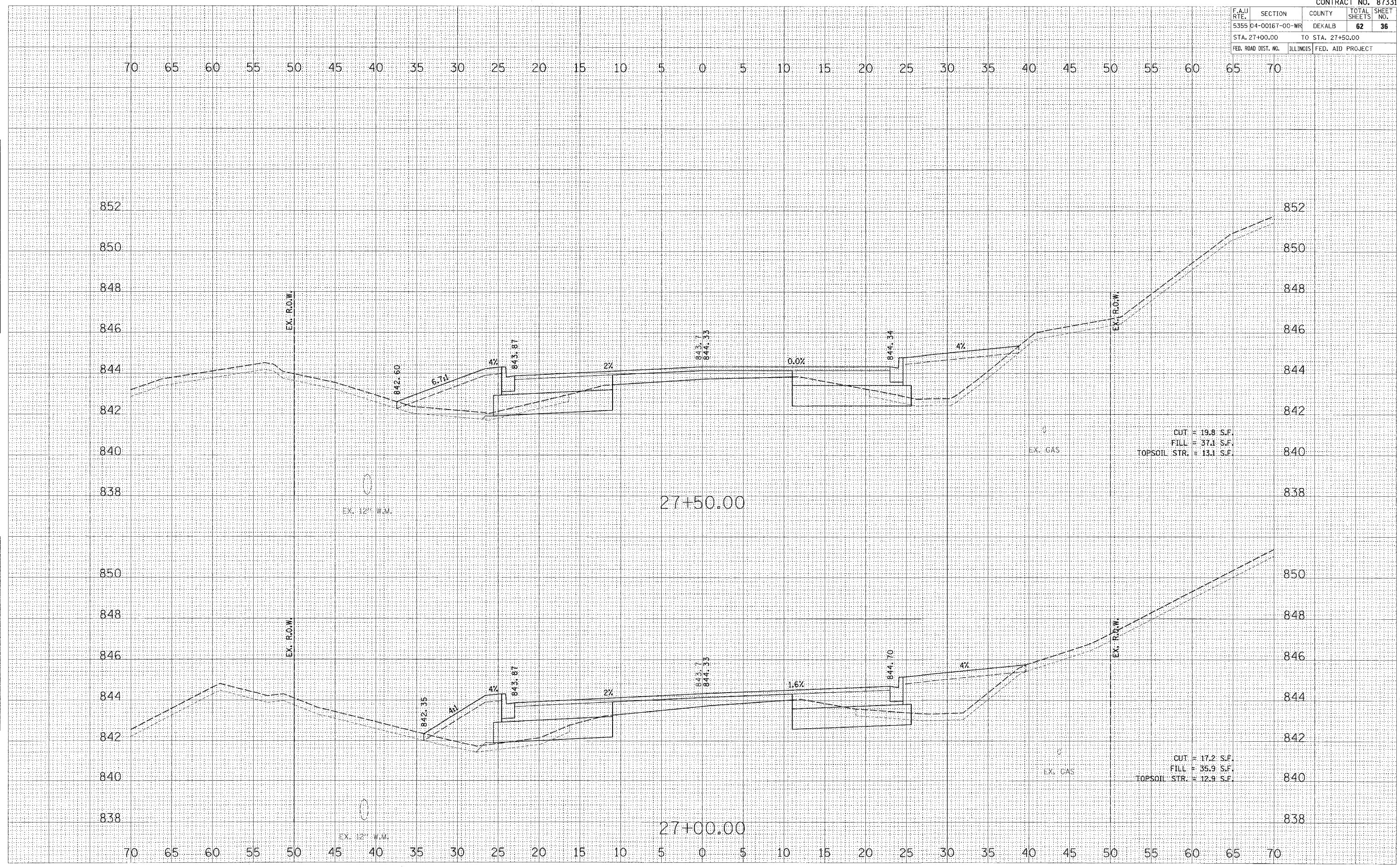


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FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

FINAL SURVEY BY DATE
 SURVEYED BY DATE
 NOTE BOOK NO.
 TEMPLATE NO.
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ORIGINAL SURVEY BY DATE
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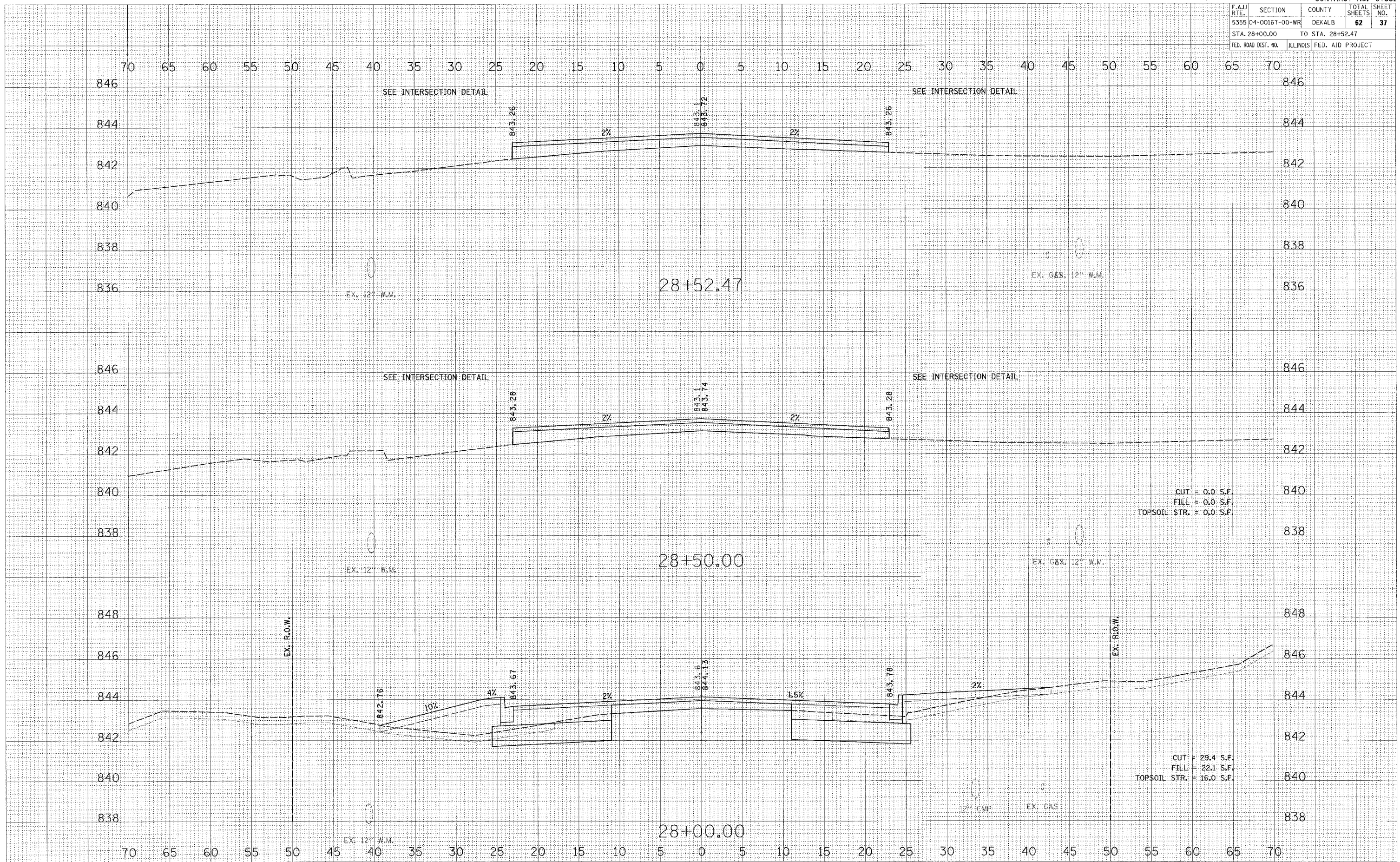


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FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

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AREAS CHECKED	

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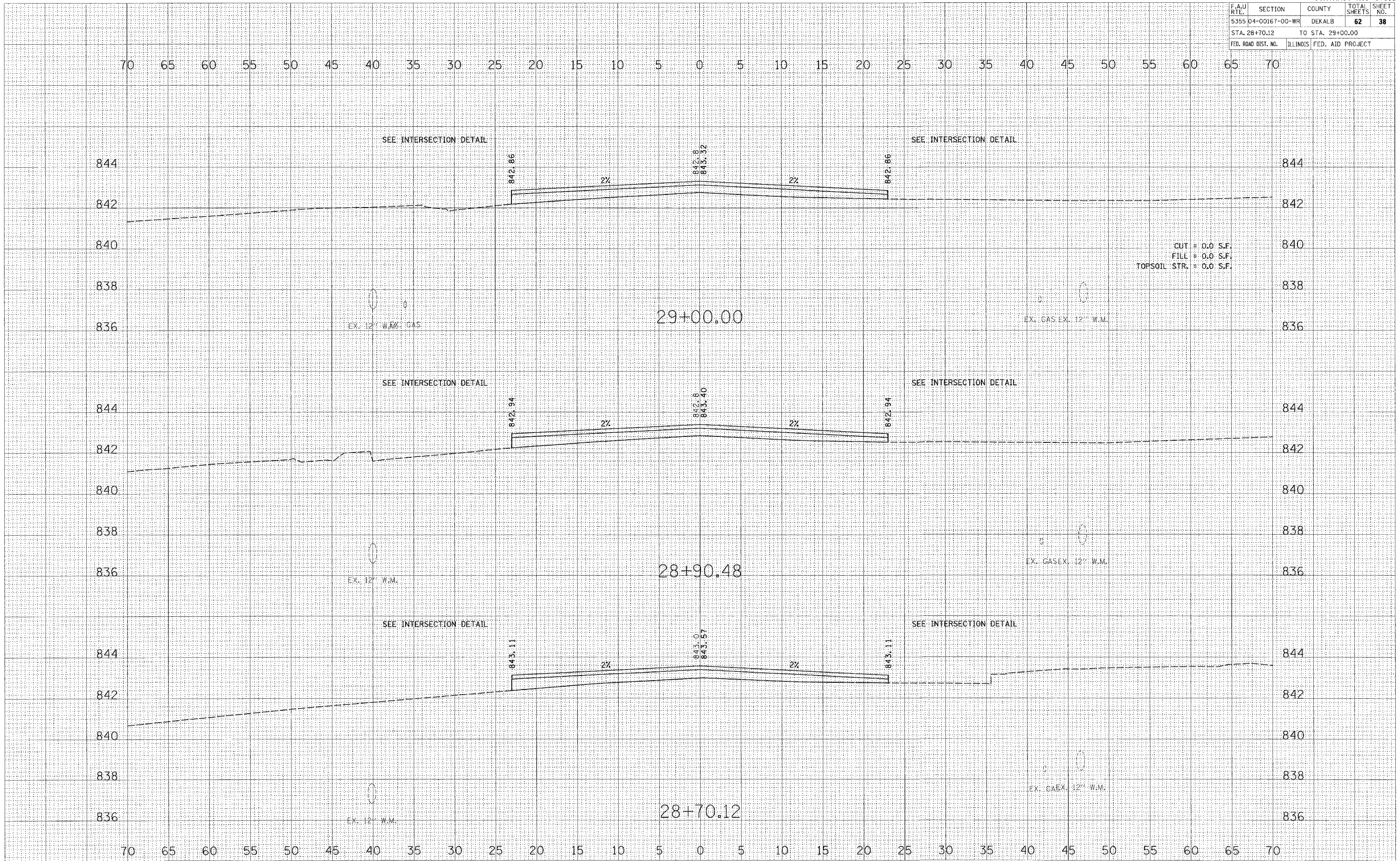
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FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

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NOTE BOOK NO.	PLOTTED	
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ORIGINAL SURVEY	SURVEYED	DATE
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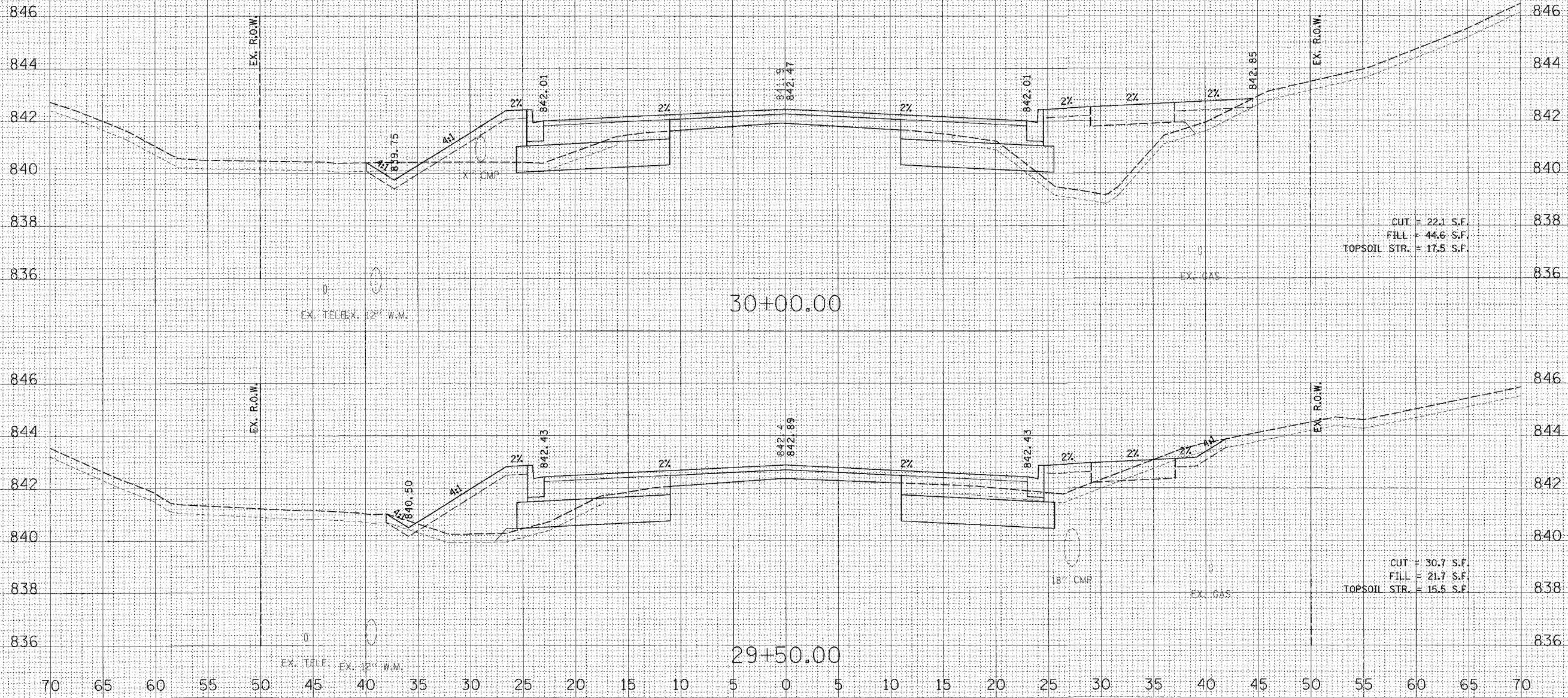
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 USER NAME = JOSEPH



CUT = 0.0 S.F.
 FILL = 0.0 S.F.
 TOPSOIL STR. = 0.0 S.F.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
5355	04-00167-00-WR	DEKALB	62	39
STA. 29+50.00		TO STA. 30+00.00		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70



BY: _____ DATE: _____
 SURVEYED: _____
 PLOTTED: _____
 NOTE BOOK: _____
 AREAS CHECKED: _____

BY: _____ DATE: _____
 SURVEYED: _____
 PLOTTED: _____
 NOTE BOOK: _____
 AREAS CHECKED: _____

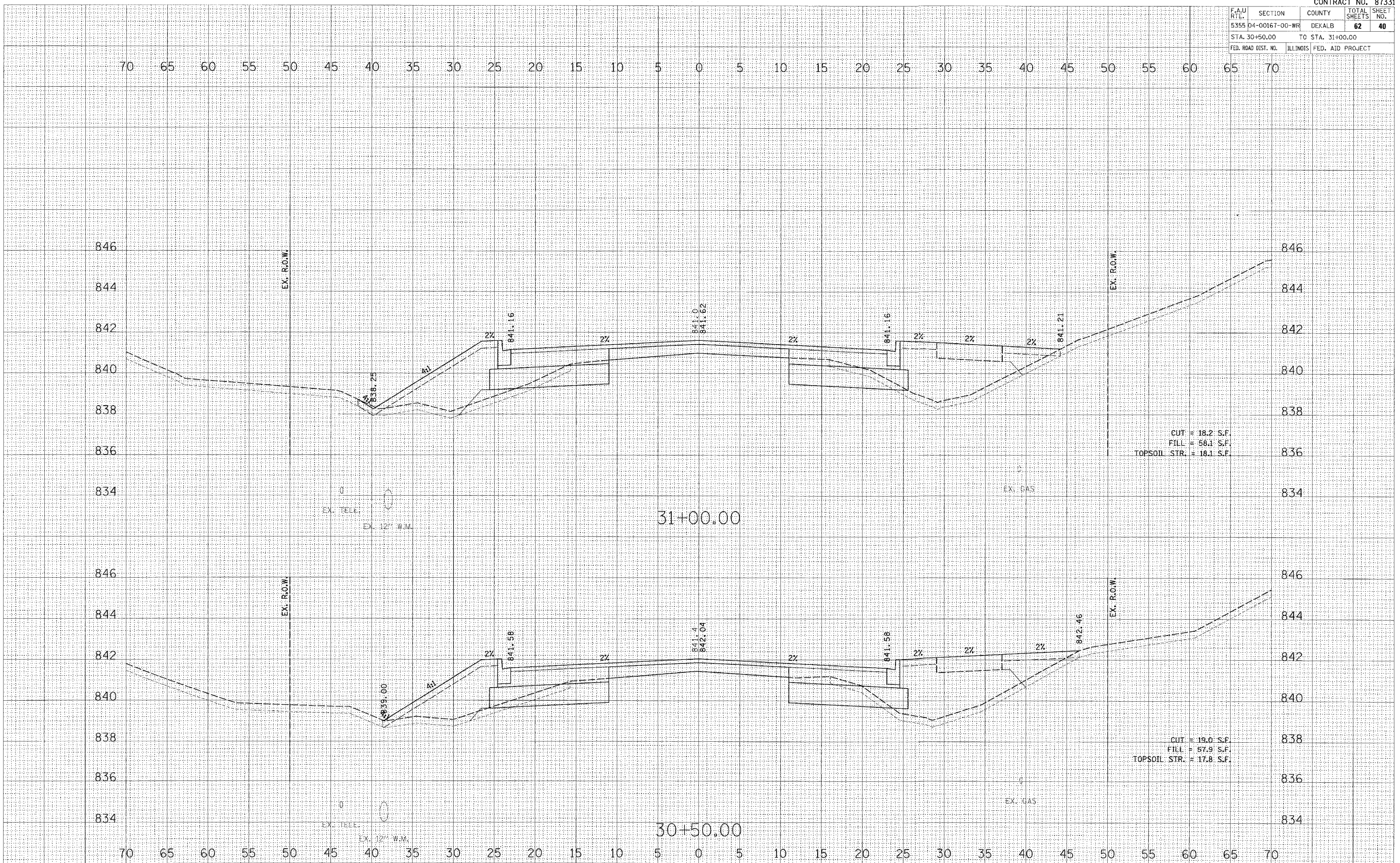
PLOT DATE = 8/21/2007
 PLOT SCALE = 50H/20V
 USER NAME = JUSEL

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
5355 04-00167-00-WR		DEKALB	62	40
STA. 30+50.00		TO STA. 31+00.00		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

FINAL	BY	DATE
SURVEYED		
PLOTTED		
TEMPLATE		
NOTE BOOK		
NO.		

ORIGINAL	BY	DATE
CHECKED		
DESIGNED		
AREA CHECKED		
NO.		

DATE = 8/21/2007
 FILE NAME = 8119.210
 USER NAME = USER



CUT = 18.2 S.F.
 FILL = 58.1 S.F.
 TOPSOIL STR. = 18.1 S.F.

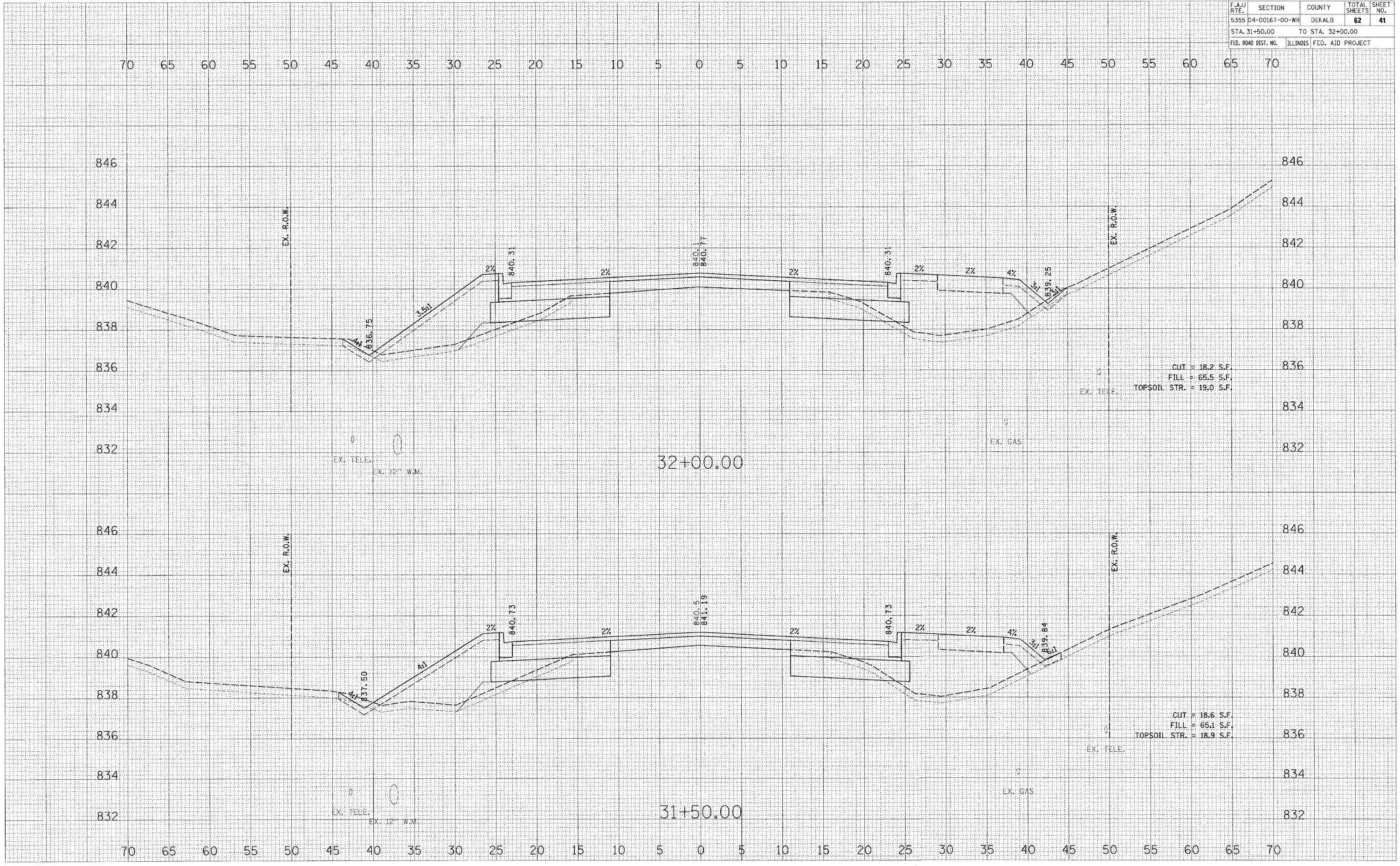
CUT = 19.0 S.F.
 FILL = 57.9 S.F.
 TOPSOIL STR. = 17.8 S.F.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
5355 04-00167-00-WR		DEKALB	62	41
STA. 31+50.00 TO STA. 32+00.00				
FED. ROAD DIST. NO.			ILLINOIS FED. AID PROJECT	

FINAL SURVEY	DATE

ORIGINAL SURVEY	DATE

PLOT DATE = 8/21/2007
FILE NAME = P:\06\06\157203-87henry\01\157203\87henry\87331.dgn
USER NAME = USER

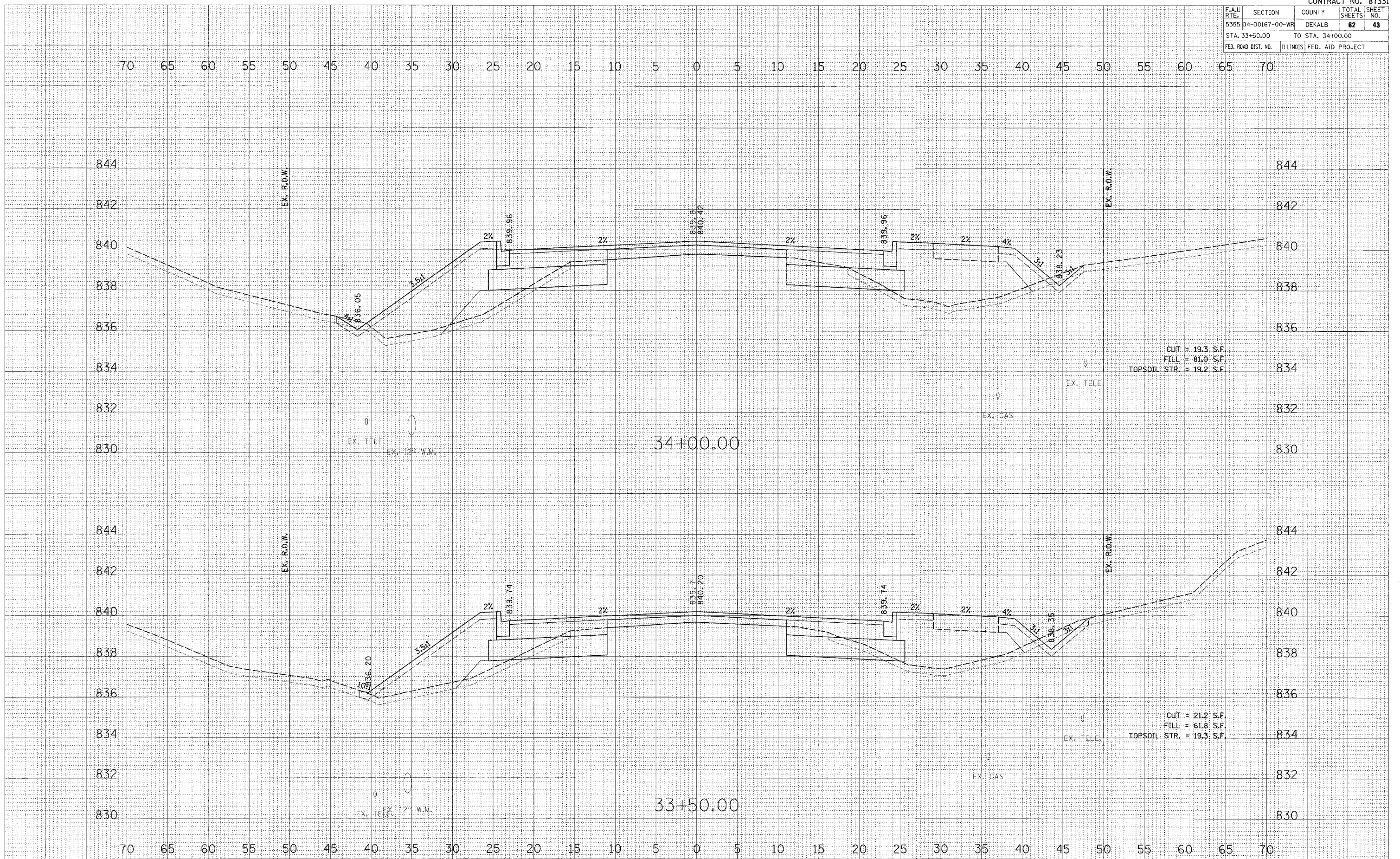


F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
5355	04-00167-00-WR	DEKALB	62	43
STA. 33+50.00		TO STA. 34+00.00		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

FINAL SURVEY	DATE
NO.	

ORIGINAL CHECKED	DATE
NO.	

FILE DATE = 8/21/2007
 FILE NAME = 117283-8-21-07.dwg
 PLOT SCALE = 1/4"=1'-0"
 USER NAME = USER1

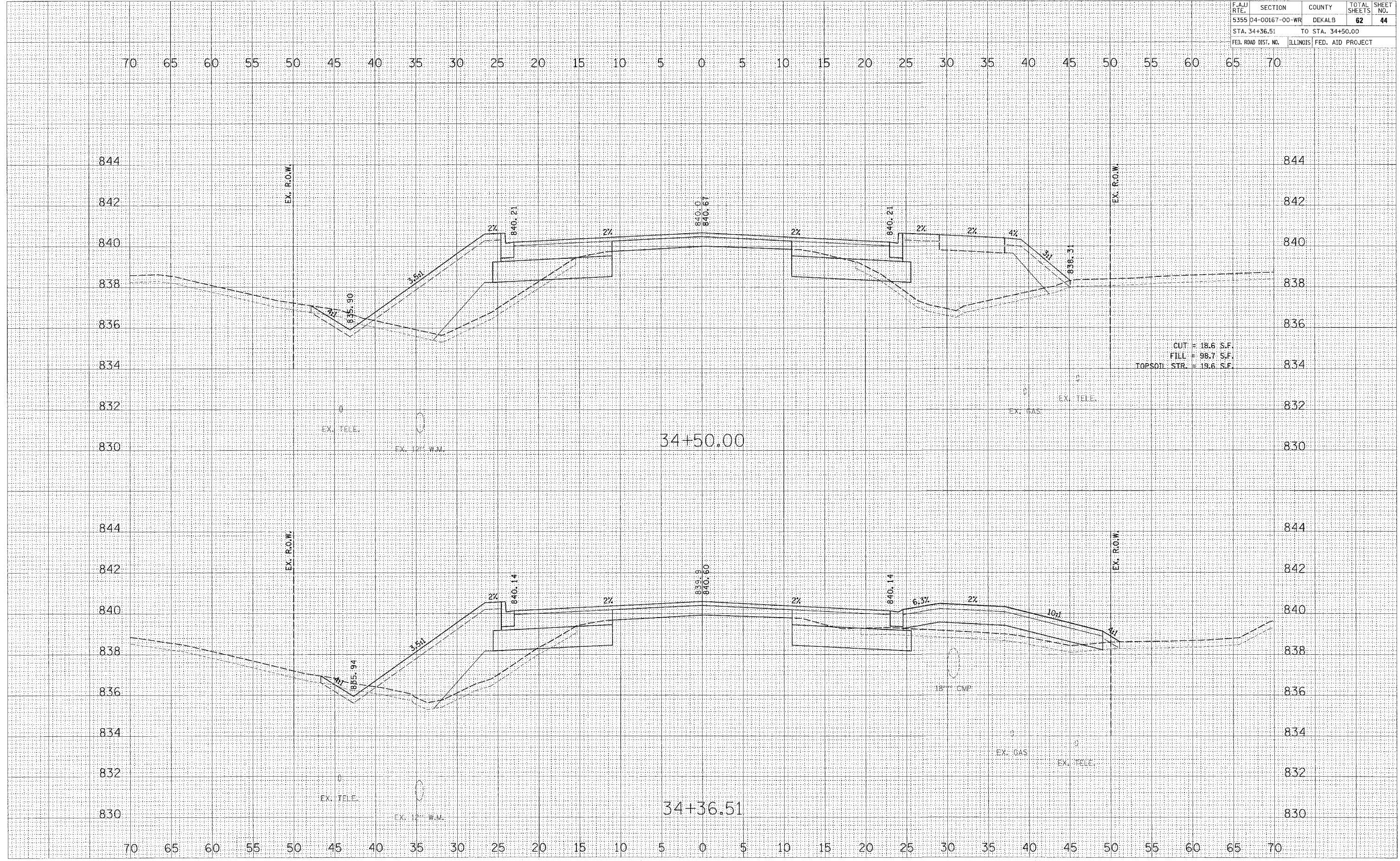


F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
5355 04-00167-00-WR		DEKALB	62	44
STA. 34+36.51		TO STA. 34+50.00		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

DATE	
BY	
FINAL SURVEY	
REVISIONS	
NOTE BOOK	
AREAS CHECKED	
NO.	

DATE	
BY	
ORIGINAL SURVEY	
REVISIONS	
NOTE BOOK	
AREAS CHECKED	
NO.	

PLOT DATE = 8/21/2007
 FILE NAME = H:\Users\157283-Ba\My Documents\Projects\87331\87331.dwg
 PLOT SCALE = 60H 21V
 USER NAME = JUBERL

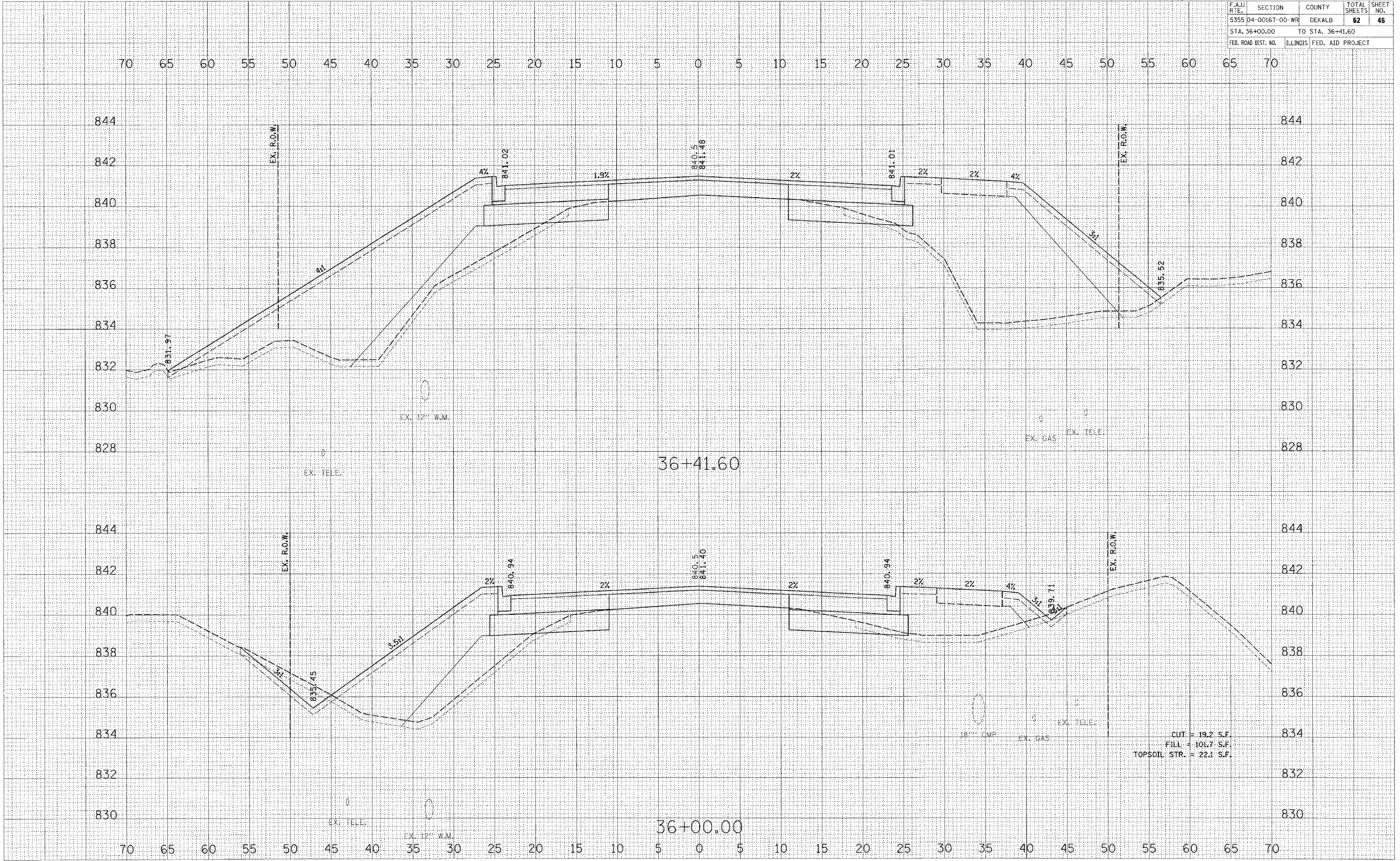


F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
5355	04-00167-00-WR	DEKALB	62	46
STA. 36+00.00		TO STA. 36+41.60		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

FINAL SURVEY	SURVEYED	DATE
NO. _____	NO. _____	NO. _____
BY _____	BY _____	BY _____
NO. _____	NO. _____	NO. _____

ORIGINAL SURVEY	SURVEYED	DATE
NO. _____	NO. _____	NO. _____
BY _____	BY _____	BY _____
NO. _____	NO. _____	NO. _____

PLOT DATE = 6/21/2007
 PLOT SCALE = 1"=40'
 USER NAME = USER

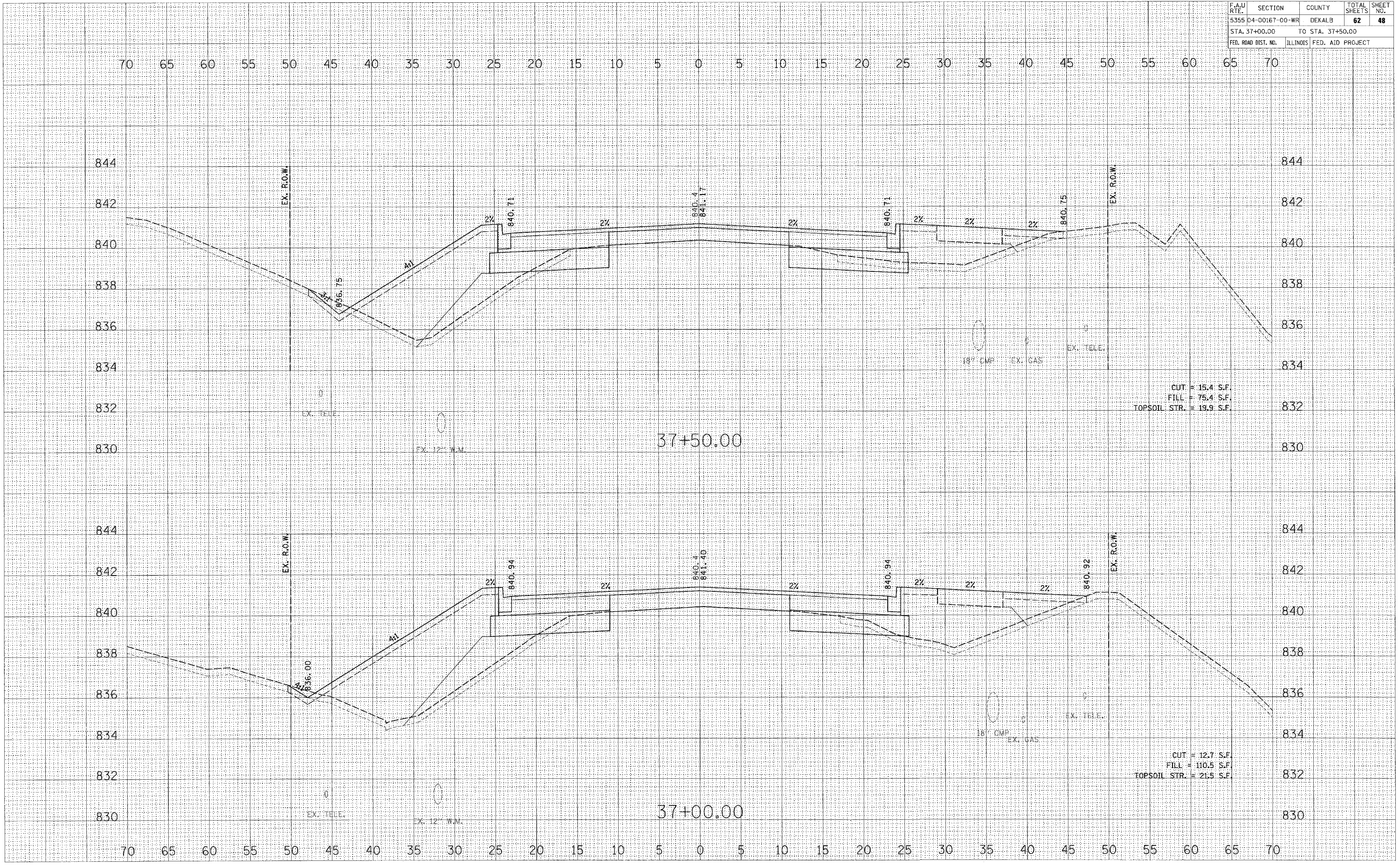


F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
5355	04-00167-00-WR	DEKALB	62	48
STA. 37+00.00		TO STA. 37+50.00		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

BY	DATE

BY	DATE

PLOT DATE = 8/21/2007
 USER NAME = JOSEB.
 FILE NAME = 04-00167-00-WR-87331-48.dwg
 USER NAME = JOSEB.



CUT = 15.4 S.F.
 FILL = 75.4 S.F.
 TOPSOIL STR. = 19.9 S.F.

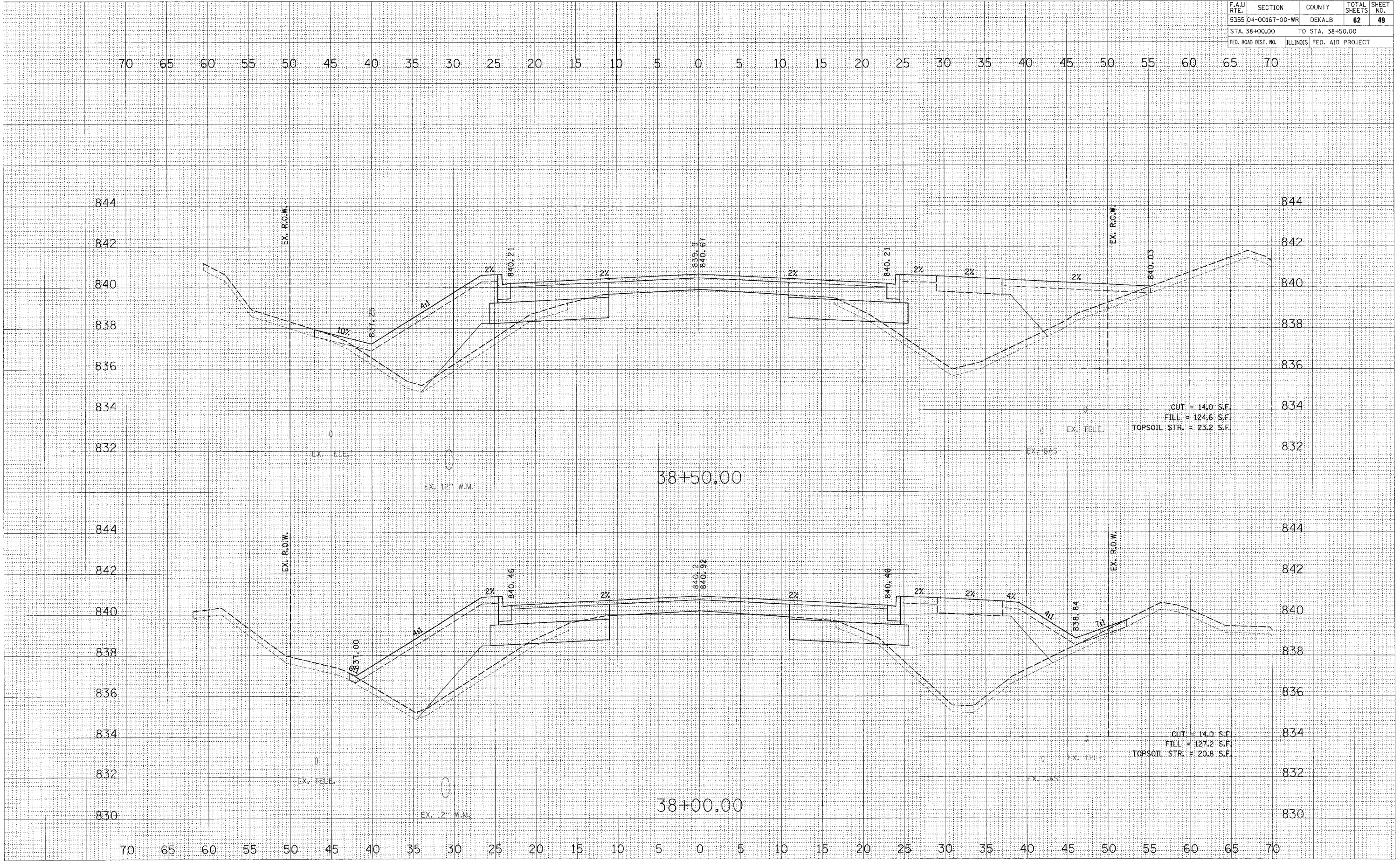
CUT = 12.7 S.F.
 FILL = 110.5 S.F.
 TOPSOIL STR. = 21.5 S.F.

F.A.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
5355	04-00167-00-WR	DEKALB	62	49
STA. 38+00.00		TO STA. 38+50.00		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

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

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

PLOT DATE = 8/21/2007
 PLOT SCALE = 1"=40'
 USER NAME = JUSER

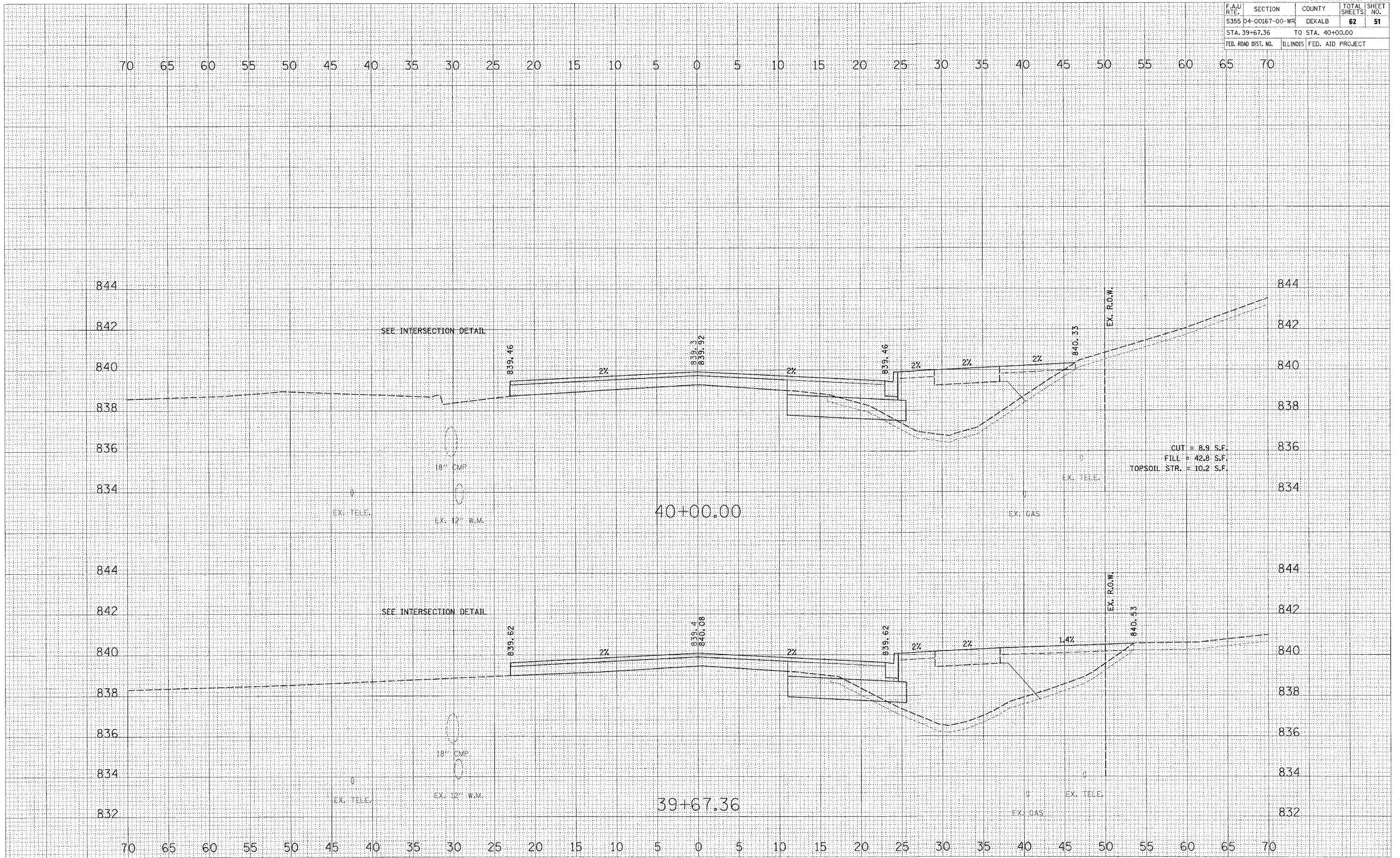


F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
5355	04-00167-00-WR	DEKALB	62	51
STA. 39+67.36		TO STA. 40+00.00		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

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

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

PLOT DATE = 8/21/2007
 PLOT SCALE = 1"=40'
 USER NAME = JUSEL



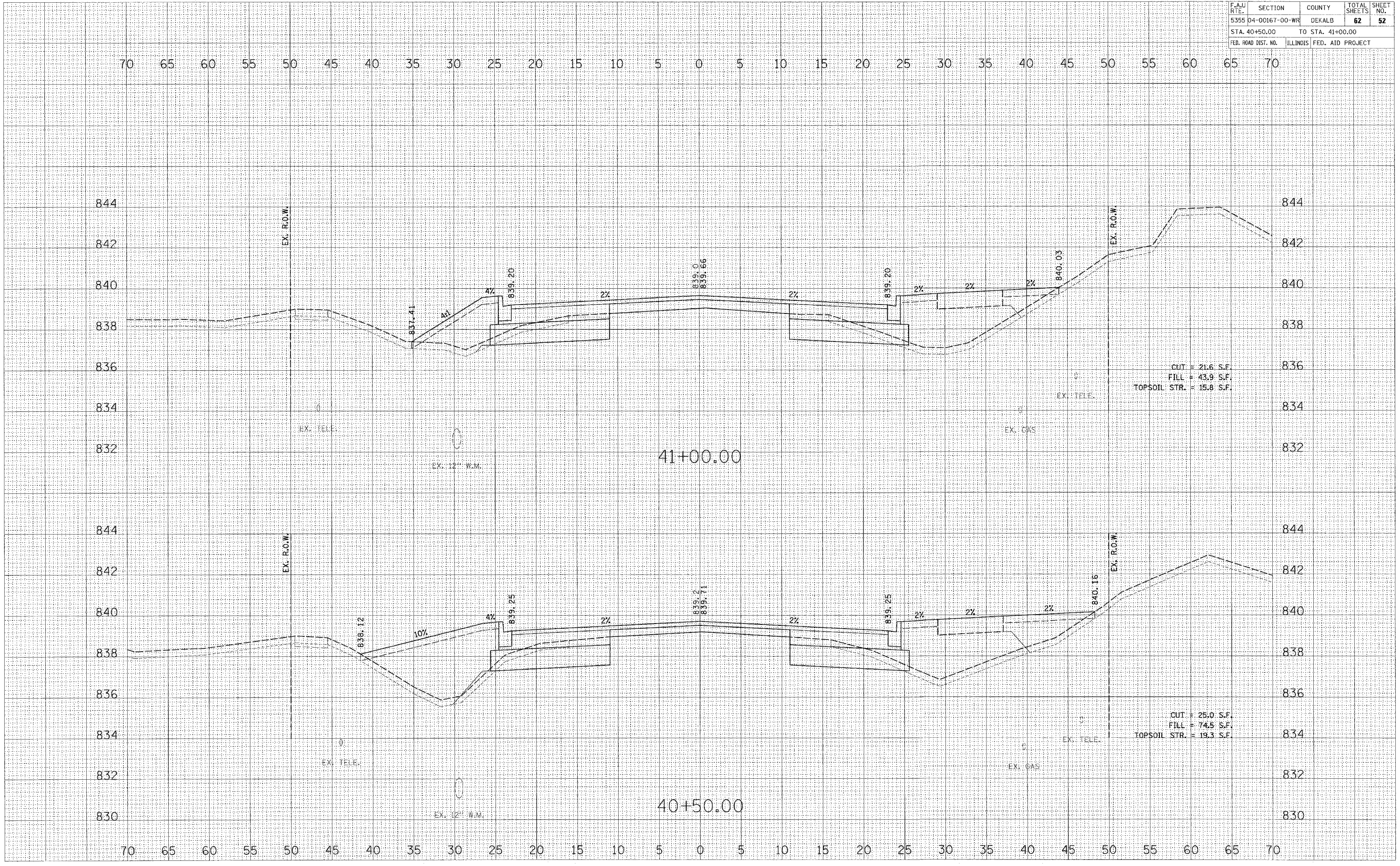
CUT = 8.9 S.F.
 FILL = 42.8 S.F.
 TOPSOIL STR. = 10.2 S.F.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
5355 04-00167-00-WR		DEKALB	62	52
STA. 40+50.00		TO STA. 41+00.00		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

FINAL SURVEY	SUPERVISED	DATE
NOTE BOOK	PLOTTED	
NO.	TEMPERATURE	
	AREAS CHECKED	

ORIGINAL SURVEY	SUPERVISED	DATE
FILE NAME	PLOTTED	
USER NAME	TEMPERATURE	
	AREAS CHECKED	

PLOT DATE = 8/21/2007
 FILE NAME = 5355040016700WR.dgn
 USER NAME = JUSER



CUT = 21.6 S.F.
 FILL = 43.9 S.F.
 TOPSOIL STR. = 15.8 S.F.

CUT = 25.0 S.F.
 FILL = 74.5 S.F.
 TOPSOIL STR. = 19.3 S.F.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
5355	04-00167-00-WR	DEKALB	62	53
STA. 41+50.00		TO STA. 42+00.00		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70

844
842
840
838
836
834

844
842
840
838
836
834

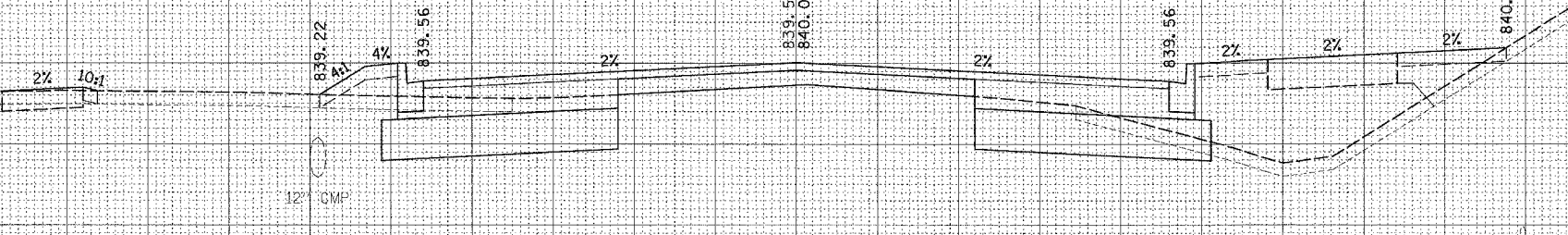
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840
838
836
834
832

EX. R.O.W.

EX. R.O.W.

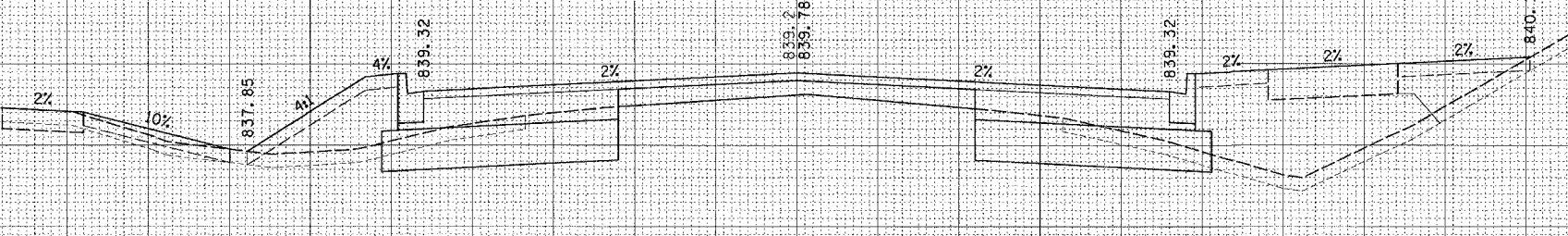
EX. R.O.W.

EX. R.O.W.



42+00.00

CUT = 30.4 S.F.
FILL = 31.4 S.F.
TOPSOIL STR. = 14.7 S.F.



41+50.00

CUT = 24.8 S.F.
FILL = 40.4 S.F.
TOPSOIL STR. = 19.0 S.F.

DATE	
BY	
NO.	
AREAS CHECKED	
FINAL SURVEY	
NO. OF SHEETS	
DATE	
AREAS CHECKED	

DATE	
BY	
NO.	
AREAS CHECKED	
ORIGINAL SURVEY	
NO. OF SHEETS	
DATE	
AREAS CHECKED	

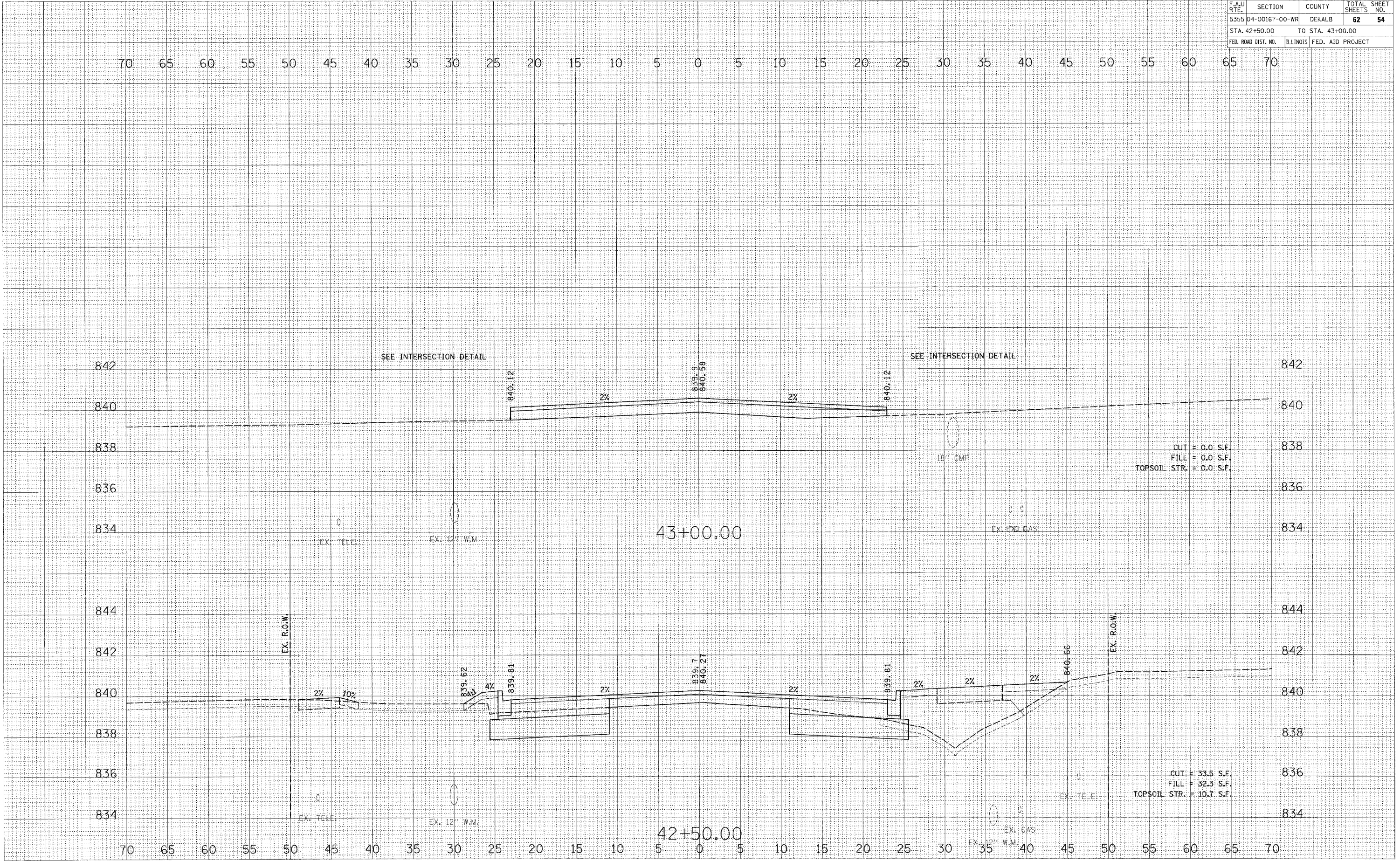
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PLOT SCALE = 1"=10'
USER NAME = JUSER

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
5355	04-00167-00-WR	DEKALB	62	54
STA. 42+50.00		TO STA. 43+00.00		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

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

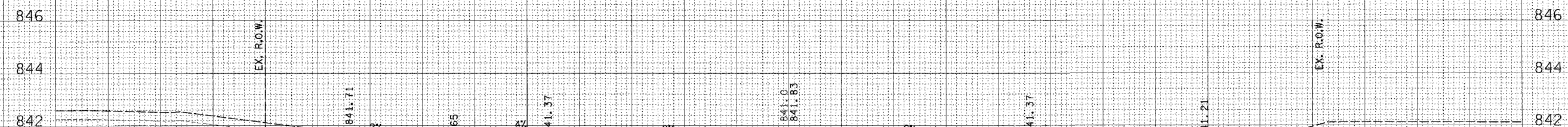
ORIGINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK NO.	PLOTTED		
	AREAS CHECKED		

PLOT DATE = 6/21/2007
 PLOT SCALE = 1"=40'
 USER NAME = JUSEL

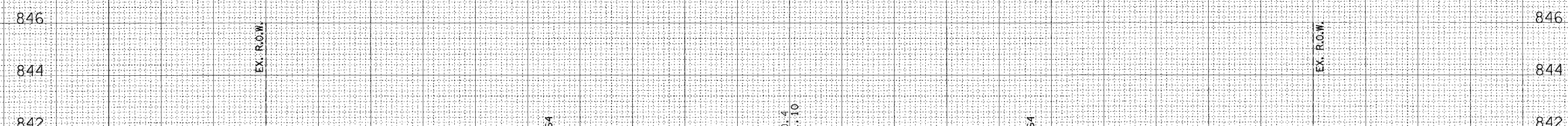


F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
5355 04-00167-00-WR		DEKALB	62	55
STA. 43+50.00		TO STA. 44+00.00		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70



CUT = 23.7 S.F.
 FILL = 26.2 S.F.
 TOPSOIL STR. = 16.0 S.F.



CUT = 30.7 S.F.
 FILL = 34.0 S.F.
 TOPSOIL STR. = 16.8 S.F.

70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70

FINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK	PLotted		
NO.	TEMP. PLATE		
	AREAS CHECKED		

ORIGINAL SURVEY	SURVEYED	BY	DATE
FILE NAME	PLotted		
USER NAME	TEMP. PLATE		
	AREAS CHECKED		

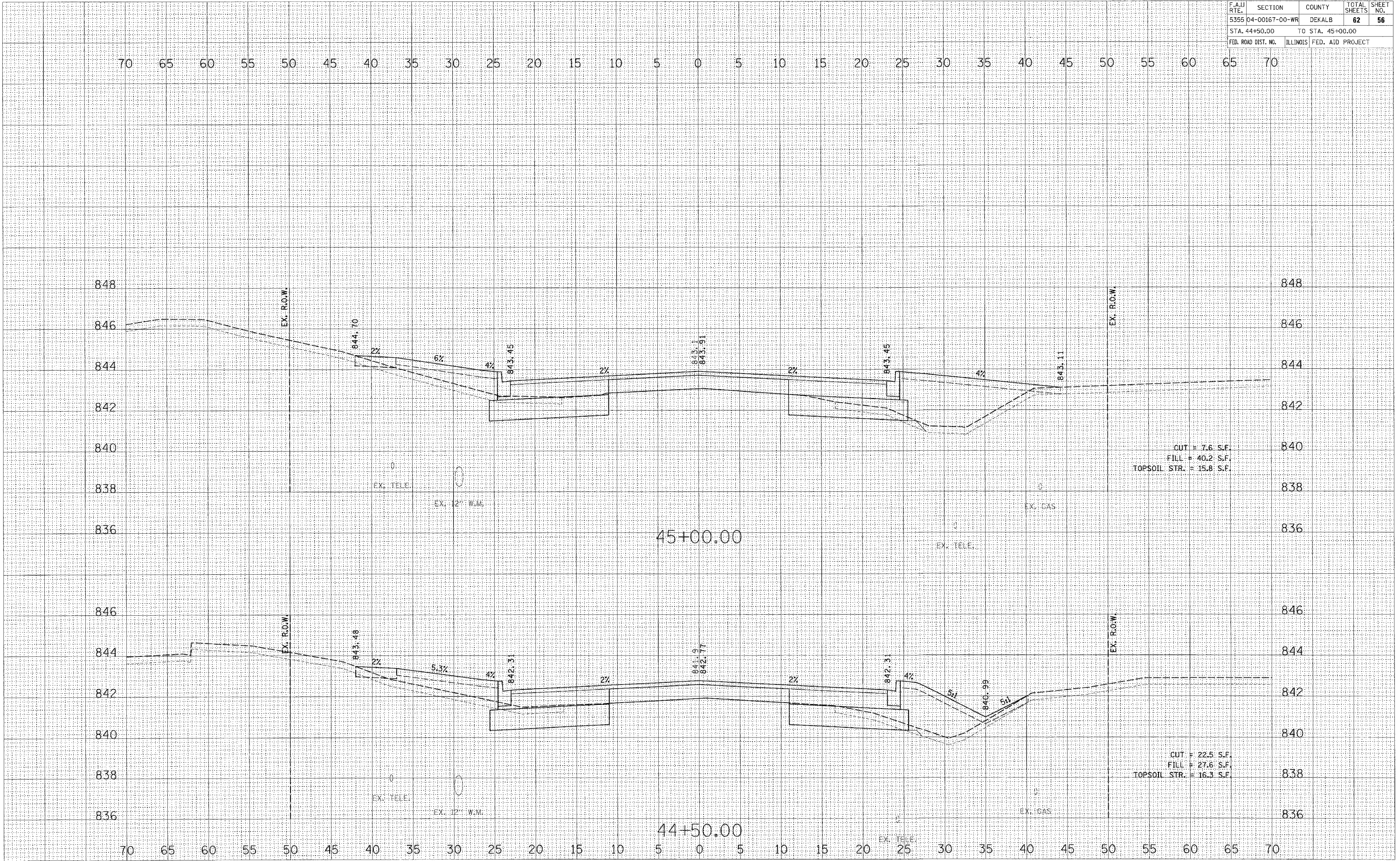
PLOT DATE = 8/21/2007
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 USER NAME = JUSER

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
5355	04-00167-00-WR	DEKALB	62	56
STA. 44+50.00		TO STA. 45+00.00		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

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

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

PLOT DATE = 8/21/2007
 PLOT SCALE = 1"=40.0'
 USER NAME = USER

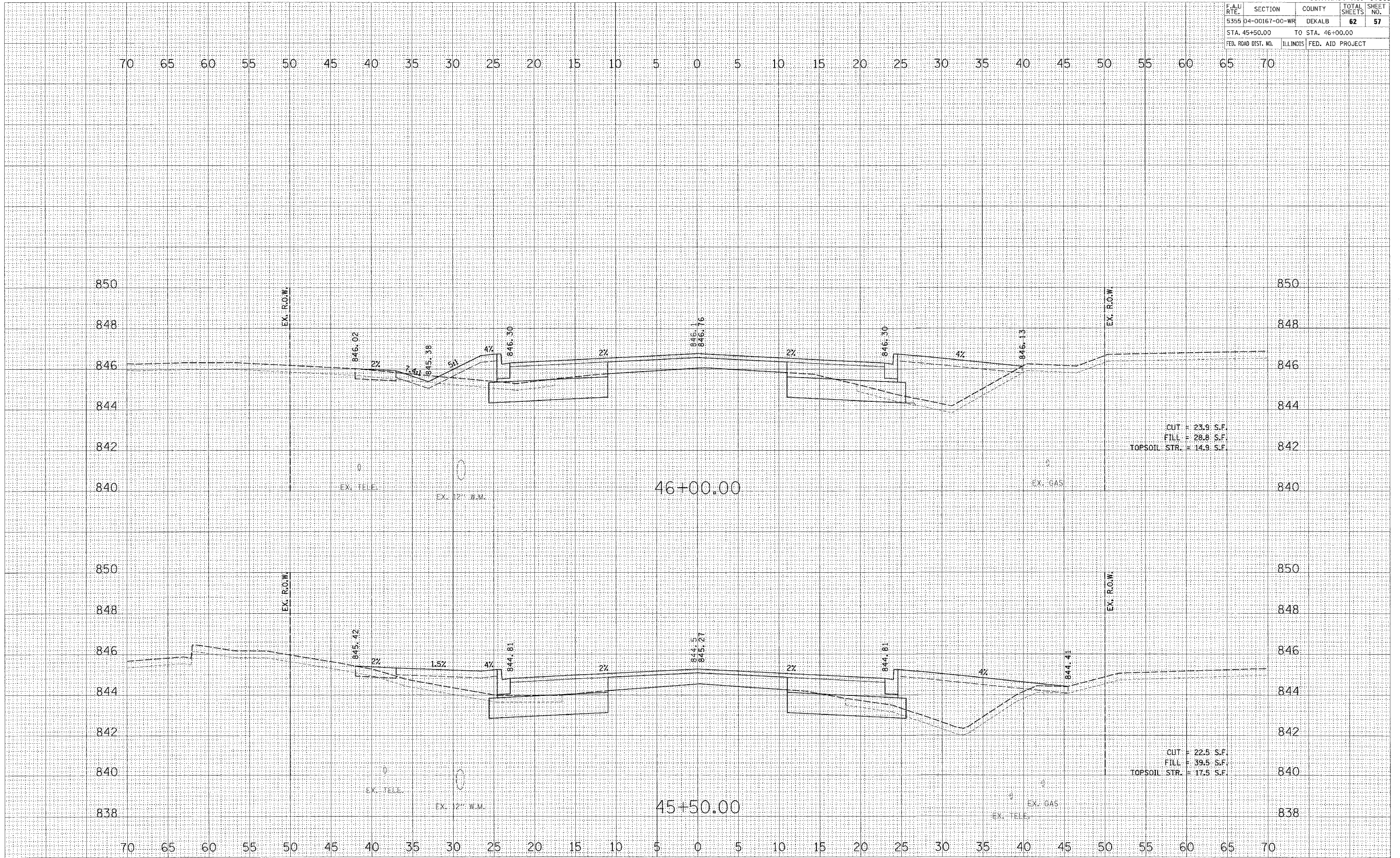


F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
5355	04-00167-00-WR	DEKALB	62	57
STA. 45+50.00		TO STA. 46+00.00		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

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

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

PLOT DATE = 6/21/2007
 PLOT SCALE = 5/8"=1'-0"
 USER NAME = USER

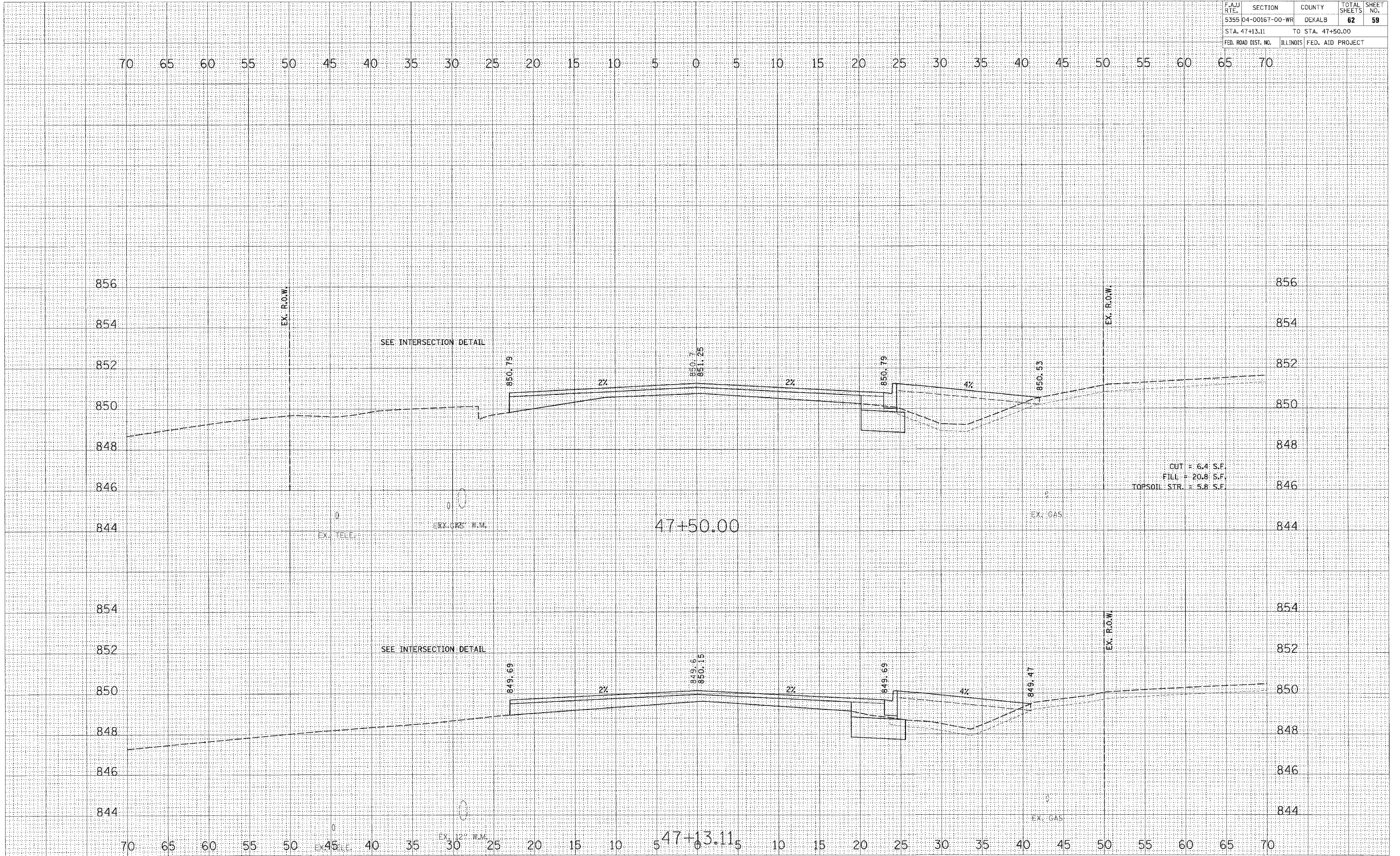


F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
5355	04-00167-00-WR	DEKALB	62	59
STA. 47+13.11		TO STA. 47+50.00		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	

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

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

PLOT DATE = 8/21/2007
 PLOT SCALE = 1"=40'
 USER NAME = JUSEL

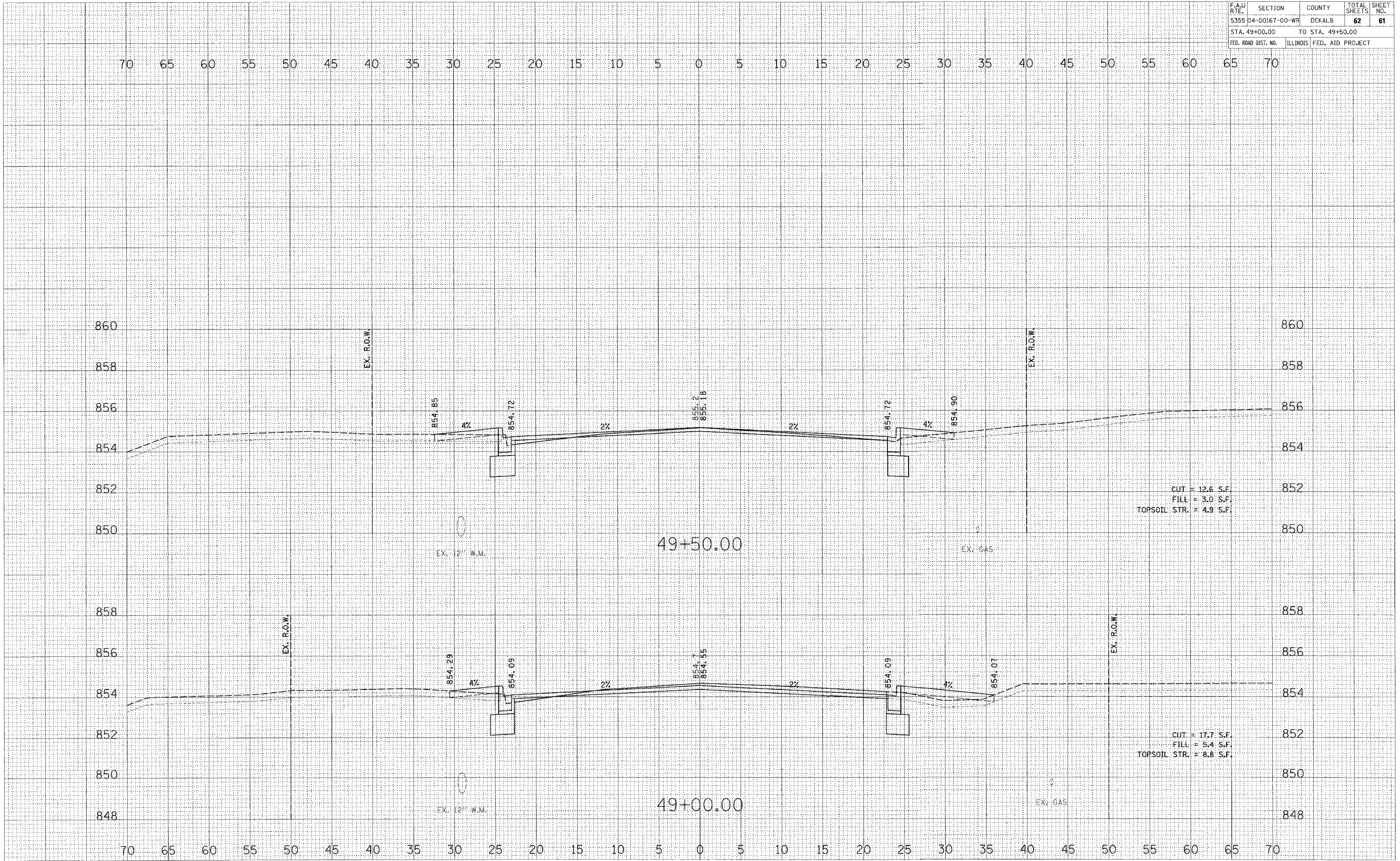


F.A.J. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
5355	04-00167-00-WR	DEKALB	62	61
STA. 49+00.00		TO STA. 49+50.00		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

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

ORIGINAL SURVEY	SURVEYED	BY	DATE
	PLOTTED		
	DATE		
	AREAS CHECKED		

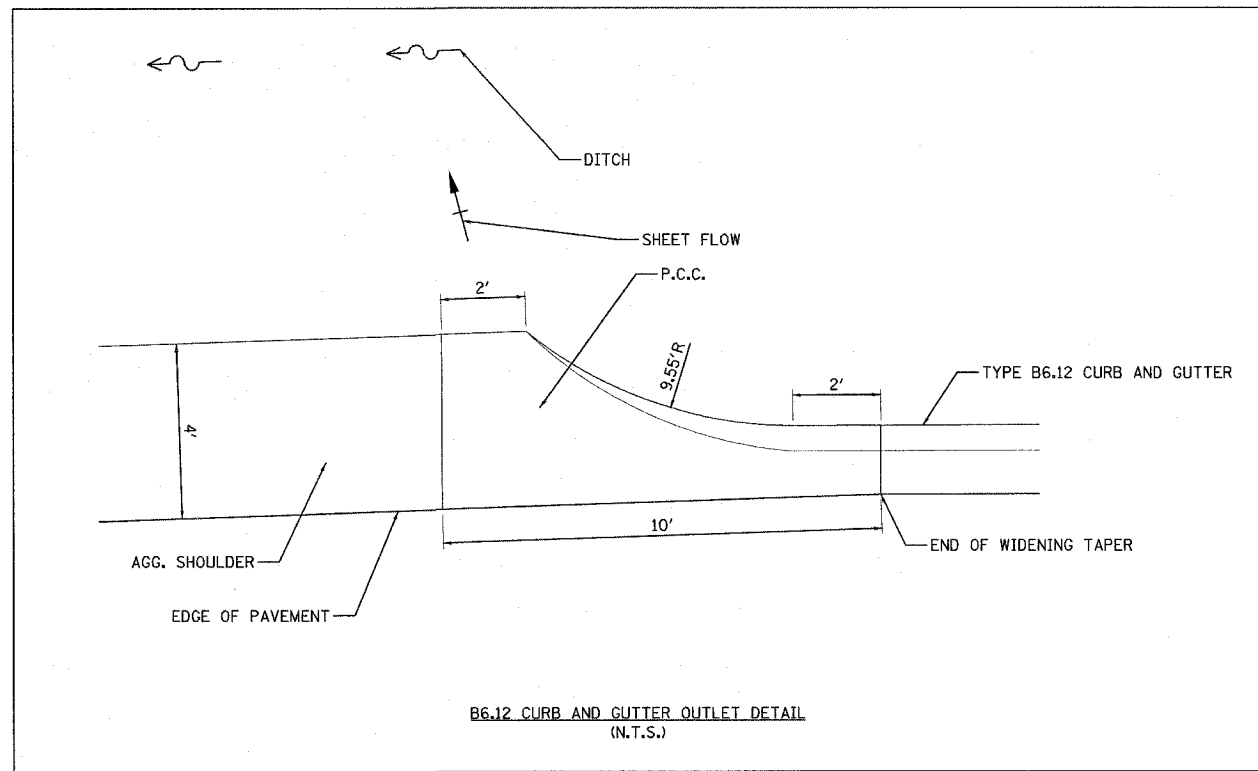
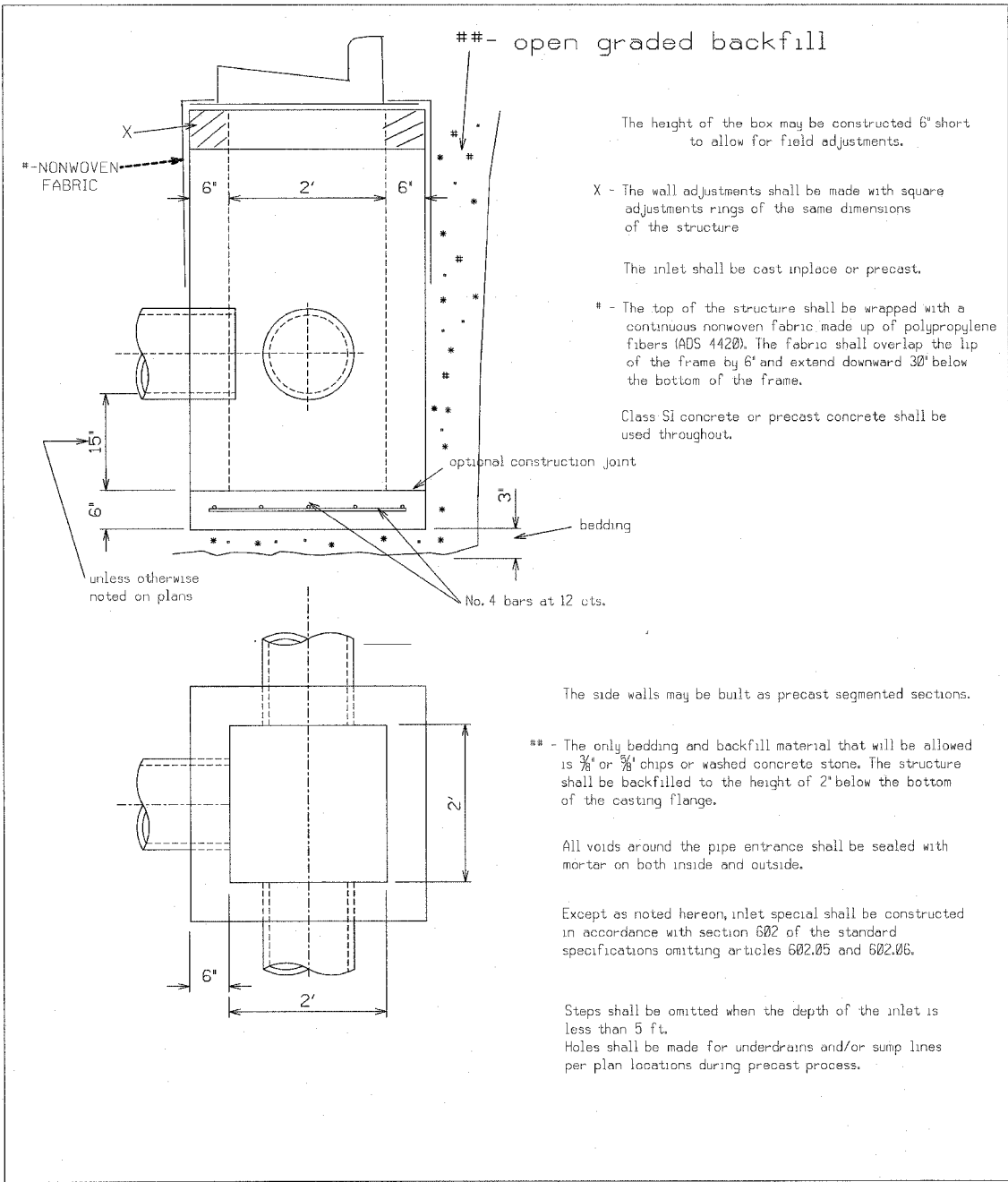
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 PLOT SCALE = 1"=40'
 USER NAME = JUSER



CUT = 12.6 S.F.
 FILL = 3.0 S.F.
 TOPSOIL STR. = 4.9 S.F.

CUT = 17.7 S.F.
 FILL = 5.4 S.F.
 TOPSOIL STR. = 8.8 S.F.

F.A.I.D. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
5355	04-00167-00-WR	DEKALB	62	62
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



STANDARD DETAIL FOR CATCH BASIN SPECIAL	REVISIONS 01-02-01 CEW	CITY OF DEKALB STORM SEWER STANDARD SS-203
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L:\STANDARD\STORM\CS.SPECIAL.DGN

PLOT DATE = 8/16/2007
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PLOT SCALE = N.T.S.
USER NAME = USER

RH&A
Robert H. Anderson & Associates, Inc.
Consulting Engineers
Timbers Professional Center
220 West River Drive, St. Charles, IL 60174
Phone - 630.584.3530 Fax - 630.584.3047

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
BETHANY ROAD WIDENING
FAIRWAY OAKS DRIVE TO RESOURCE PARKWAY
CITY OF DEKALB

DETAILS

SCALE: N.T.S.
DATE: 8/17/07

DRAWN BY: KMA
CHECKED BY: BP