

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
301	21T-1	STEPHENSON	64	1

65

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

**PROPOSED
HIGHWAY PLANS**

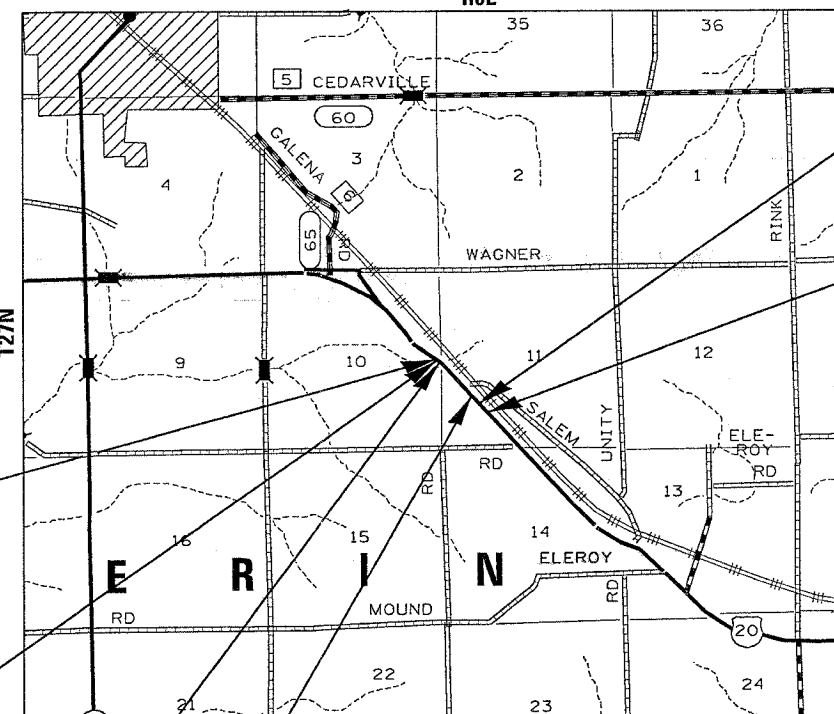
FAP ROUTE 301 (US 20)
SECTION 21T-1
PROJECT No NHF-0301(040)
STEPHENSON COUNTY
CULVERT REPLACEMENT & BITUMINOUS SHOULDERS

D-92-111-05



FOR INDEX OF SHEETS & STANDARDS, SEE SHEET NO. 2

C-92-113-06
R6E



SECTION ENDS
STA 389+00

IMPROVEMENT ENDS
STA 389+50

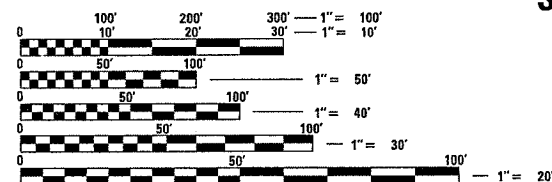
IMPROVEMENT BEGINS
STA 370+50

SECTION BEGINS
STA 373+50

CULVERT
STA 374+84.61

CULVERT
STA 385+50

GROSS LENGTH OF PROJECT = 1550 LIN. FT. = 0.29 MI.
NET LENGTH = 1550 LIN. FT. = 0.29 MI.



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

ERIN TOWNSHIP, SECTION 10,11
CONTRACT NO. 64B48

STEPHENSON COUNTY SECTION 21T-1 FAP ROUTE 301

SQUAD LEADER: TRACI HELFICH (815) 284-5932

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

SUBMITTED December 15, 2006

Joseph S. Conner
DEPUTY DIRECTOR OF HIGHWAYS, REGION ENGINEER

February 2, 2007
Eric E. Haral
INTERIM ENGINEER OF DESIGN AND ENVIRONMENT

February 20, 2007
Milton R. See, P.E.
DIRECTOR OF HIGHWAYS, CHIEF ENGINEER

PRINTED BY THE AUTHORITY
OF THE STATE OF ILLINOIS

REGION 2 DISTRICT 2
DIXON

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
301	211-J	STEPHENSON	64	2
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	

INDEX OF SHEETS

1	COVER SHEET
2	INDEX OF SHEETS & STANDARDS
3 - 5	SUMMARY OF QUANTITIES
6 - 7	GENERAL NOTES
8 - 9	TYPICAL SECTIONS
10 - 12	SCHEDULE OF QUANTITIES
13 - 14	VERTICAL & HORIZONTAL CONTROL SHEETS
15 - 26	STAGING AND TRAFFIC CONTROL SHEETS
27 - 31	PLAN AND PROFILE SHEETS
32 - 35	ROW & EASEMENT, EROSION CONTROL SHEETS
36	BORING LOGS
37	CULVERT DETAILS
37A	BAR SPLICER ASSEMBLY DETAILS
38	BITUMINOUS SHOULDER (DIST STD 23.4a) DELINEATOR AND POST ORIENTATION (DIST STD 37.4) TYPICAL BENCHING ON EXISTING EMBANKMENT (50.4) LETTERING FOR NAME PLATE (DIST STD 89.4)
39	TREE REPLACEMENT SCHEDULE (DIST STD 90.4) BARRIER REFLECTORS (DIST STD 92.4) SUBGRADE REPLACEMENT (DIST STD 97.4) STOP LINE SIGN FOR TEMPORARY SIGNALS (DIST STD 99.4)
40	EROSION CONTROL DETAILS FOR SILT FENCE (DIST STD 29.2) WITNESS MARKER & PERMANENT SURVEY MARKERS, TYPE II (DIST STD 66.2)
41	STORM WATER POLLUTION PREVENTION PLAN EROSION CONTROL PLAN (DIST STD 2.1)
42	HOT-MIX ASPHALT APPROACHES & MAILBOX RETURNS (DIST STD 20.1)
43	TRAFFIC CONTROL FOR ROAD CLOSURE (DIST STD 40.1)
44 - 45	TYPICAL PAVEMENT MARKING (DIST STD 41.1)
46	DETAILS OF PLANTING AND BRACING TREES & TREE REPLACEMENT SCHEDULE (DIST STD 92.1)
47 - 64	CROSS SECTIONS

STATE STANDARDS

000001-04	STANDARD SYMBOLS, ABBREVIATIONS, AND PATTERNS
001001-01	AREAS OF REINFORCEMENT BARS
001006	DECIMAL OF AN INCH AND OF A FOOT
280001-03	TEMPORARY EROSION CONTROL SYSTEMS
420701-01	PAVEMENT FABRIC
442101-06	CLASS B PATCHES
482001-01	HMA SHOULDER ADJACENT TO FLEXIBLE PAVEMENT
515001-02	NAME PLATES FOR BRIDGES
542406	METAL END SECTIONS FOR PIPE ARCHES
635001	DELINEATORS
666001	RIGHT-OF-WAY MARKERS
667101	PERMANENT SURVEY MARKERS
701006-02	OFF-ROAD OPERATIONS, 2L, 2W, 15' TO 24" FROM EDGE OF PAVEMENT
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
701321-08	LANE CLOSURE, 2L, 2W, BRIDGE REPAIR WITH BARRIER
701326-02	LANE CLOSURE, 2L, 2W, PAVEMENT WIDENING, FOR SPEEDS ≥ 45 MPH
702001-06	TRAFFIC CONTROL DEVICES
704001-03	TEMPORARY CONCRETE BARRIER
720011	METAL POST FOR SIGNS, MARKERS, AND DELINEATORS
728001	TELESCOPING STEEL SIGN SUPPORT
729001	APPLICATIONS OF TYPES A & B METAL POSTS (FOR SIGNS & MARKERS)
780001-01	TYPICAL PAVEMENT MARKINGS
781001-02	TYPICAL APPLICATIONS RAISED REFLECTIVE PAVEMENT MARKERS
886001	DETECTOR LOOP INSTALLATIONS
886006	TYPICAL LAYOUT FOR DETECTION LOOPS

F.A.P. RYE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
-30L	21L-1	STEPHENSON	64	3
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

SUMMARY OF QUANTITIES

CODE NUMBER	ITEM	UNITS	TOTAL
			80% Fed 20% State MINOR STRUCTURE Y007
20100110	TREE REMOVAL (6 TO 15 UNITS DIAMETER)	UNIT	115
20100210	TREE REMOVAL (OVER 15 UNITS DIAMETER)	UNIT	91
20200100	EARTH EXCAVATION	CU YD	5916
* 25000210	SEEDING, CLASS 2A	ACRE	2
* 25000310	SEEDING, CLASS 4	ACRE	1
* 25000750	MOWING	ACRE	3
* 25100115	MULCH, METHOD 2	ACRE	3
25100630	EROSION CONTROL BLANKET	SQ YD	2332
28000250	TEMPORARY EROSION CONTROL SEEDING	POUND	1148
28000300	TEMPORARY DITCH CHECKS	EACH	50
28000400	PERIMETER EROSION BARRIER	FOOT	450
28000500	INLET AND PIPE PROTECTION	EACH	1
35100100	AGGREGATE BASE COURSE, TYPE A	TON	47
35101400	AGGREGATE BASE COURSE, TYPE B	TON	125
40603310	HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N50	TON	284
40603345	HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N90	TON	29
40800050	INCIDENTAL HOT-MIX ASPHALT SURFACING	TON	12
42001200	PAVEMENT FABRIC	SQ YD	173
44200976	CLASS B PATCHES, TYPE IV, 10 INCH	SQ YD	173
* 44213200	SAW CUTS	FOOT	216
48101200	AGGREGATE SHOULDERS, TYPE B	TON	57

PLOT DATE = Wed Dec 28 09:28:41 2005
 FILE NAME = C:\Projects\64B48\1185\dl1185\vw-dgn
 PLOT SCALE = 50:0000 / IN.
 REFERENCE = NONE

△ NON-PARTICIPATING * SPECIALTY ITEMS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
30L	217-L	STEPHENSON	64	4
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

SUMMARY OF QUANTITIES

CODE NUMBER	ITEM	UNITS	TOTAL
			80% Fed 20% State MINOR STRUCTURE Y007
48203021	HOT-MIX ASPHALT SHOULDERS, 6"	SO YD	2536
50100300	REMOVAL OF EXISTING STRUCTURES NO. 1	EACH	1
50100400	REMOVAL OF EXISTING STRUCTURES NO. 2	EACH	1
50200400	ROCK EXCAVATION FOR STRUCTURES	CU YD	50
50800105	REINFORCEMENT BARS	POUND	17420
50800515	BAR SPLICERS	EACH	45
51500100	NAME PLATES	EACH	1
54003000	CONCRETE BOX CULVERTS	CU YD	86.1
54205470	PIPE CULVERTS, CLASS D, TYPE 1, EQUIVALENT ROUND-SIZE 15"	FOOT	60
54214290	END SECTIONS, EQUIVALENT ROUND-SIZE 15"	EACH	2
61100500	EXPLORATION TRENCH 52" DEPTH	FOOT	300
63200310	GUARDRAIL REMOVAL	FOOT	465
63500105	DELINEATORS	EACH	2
66600105	FURNISHING AND ERECTING RIGHT-OF-WAY MARKERS	EACH	8
66700305	PERMANENT SURVEY MARKERS, TYPE II	EACH	2
67100100	MOBILIZATION	L SUM	1
67000400	ENGINEERS FIELD OFFICE, TYPE A	CAL MO	2
70100405	TRAFFIC CONTROL AND PROTECTION, STANDARD 701321	EACH	1
70100450	TRAFFIC CONTROL AND PROTECTION, STANDARD 701201	L SUM	1
70100460	TRAFFIC CONTROL AND PROTECTION, STANDARD 701306	L SUM	1
70100500	TRAFFIC CONTROL AND PROTECTION, STANDARD 701326	L SUM	1
70106500	TRAFFIC TEMPORARY BRIDGE SIGNALS	EACH	1
70106700	TEMPORARY RUMBLE STRIP	EACH	12

* SPECIALTY ITEMS

SUMMARY OF QUANTITIES

PLOT DATE = Wed Dec 28 09:28:53 2006
 FILE NAME = C:\Programs\AutoCAD2004\Drawings\011855.dgn
 PLOT SCALE = 3/8"=1'-0"
 REFERENCE = SHEET

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
301	211-1	STEPHENSON	64	5
STA.	TO STA.			
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

SUMMARY OF QUANTITIES

CODE NUMBER	ITEM	UNITS	TOTAL
			80% Fed 20% State MINOR STRUCTURE Y007
		CAL MO	2
70106800	CHANGEABLE MESSAGE SIGN	FOOT	387
70300100	SHORT-TERM PAVEMENT MARKING		
		FOOT	2004
70300520	PAVEMENT MARKING TAPE, TYPE III 4"		
		FOOT	24
70300570	PAVEMENT MARKING TAPE, TYPE III 24"		
		SQ FT	822
70301000	WORK ZONE PAVEMENT MARKING REMOVAL		
		FOOT	275
70400100	TEMPORARY CONCRETE BARRIER		
		FOOT	275
70400200	RELOCATE TEMPORARY CONCRETE BARRIER		
		FOOT	10756
* 78001110	PAINT PAVEMENT MARKING - LINE 4"		
		EACH	2
* 78100100	RAISED REFLECTIVE PAVEMENT MARKER		
		SQ FT	682
78300100	PAVEMENT MARKING REMOVAL		
		EACH	2
78300200	RAISED REFLECTIVE PAVEMENT MARKER REMOVAL		
		TON	108.4
Z0005400	BREAKER-RUN CRUSHED STONE		
		L SUM	1
Z0013798	CONSTRUCTION LAYOUT		
		CU YD	29
Z0028700	GRANULAR SUBGRADE REPLACEMENT		
		EACH	2
** Z0030250	IMPACT ATTENUATORS, TEMPORARY (NON-REDIRECTIVE), TEST LEVEL 3		
		EACH	2
** Z0030350	IMPACT ATTENUATORS, RELOCATE (NON-REDIRECTIVE), TEST LEVEL 3		
		L SUM	1
Z0048665	RAILROAD PROTECTIVE LIABILITY INSURANCE		
		EACH	18
Z0075300	TIE BARS		
		EACH	14
* A2007814	TREE, TILIA AMERICANA (AMERICAN LINDEN/BASSWOOD), 1-3/4" CALIPER, BALLED AND BURLAPPED		
		SQ YD	572
XX004900	TURF REINFORCEMENT MAT		
		SQ FT	286
X0323988	TEMPORARY SOIL RETENTION SYSTEM		

*SPECIALTY ITEMS
 ** IMPACT ATTENUATORS FUNCTION CODE SAFTY-3N

PLT DATE = 14 Jul 2006
 PLOT SCALE = 50.0000' / IN.
 REFERENCE = REF#

GENERAL NOTES

ROUTE NO.	SEC.	COUNTY	TOTAL SHEETS	SHEET NO.
FAP 301 (US 20)	21T-1	Stephenson	64	6
FED ROAD DIST. NO.	ILLINOIS	PROJECT		
Contract #64B48				

See cross sections for special ditches and backslopes.

The removal of Bituminous Surfacing not on a rigid type base removed in conjunction with the base shall be removed as EARTH EXCAVATION. The removal of Bituminous Surfacing on a rigid type base removed in conjunction with the base shall be included in the contract unit price for PAVEMENT REMOVAL of the type specified.

The final top 100 mm (four inches) of soil in any right-of-way area disturbed by the Contractor must be capable of supporting vegetation. The soil must be from the A horizon (zero to 2' deep) of soil profiles of local soils.

The Contractor shall seed all disturbed areas within the project limits. Seeding Class 4 or 2A shall be used, except in front of properties where the grass will be mowed, then use Seeding, Class 1. Class 2A shall be used on front slopes and ditch bottoms. Class 4 shall be used behind Type A gutter, on all backslopes and areas behind the backslope, and beyond the toe of front slope on fill sections without ditches.

Fertilizer Nutrients shall be applied at the rate specified in Sections 250 and 252 of the Standard Specifications. This shall be included in the cost of the SEEDING or SODDING.

Previously pugmilled stockpiles of "Type A" older than 1 month will not be approved for use until a moisture check is run to verify moisture content. Material shipped to projects without being tested will not be accepted.

Placement and compaction of the backfill for AR culverts shall conform to Section 502.10 of the Standard Specifications, except that the material shall conform to Article 208.02 of the Standard Specifications, and shall be compacted to a minimum of 95% of the standard laboratory density. Any material conforming to the requirements of Article 1003.04 or 1004.05 which has been excavated from the trenches shall be used for backfilling the trenches. The entire excavation, within 2 feet outside of each shoulder, shall be backfilled with trench backfill material to the bottom of the proposed subgrade. This trench backfill material will not be measured for payment, but shall be included in the contract unit price for the class of concrete involved or other unit price item of the work for which it is required.

Closed expansion joints on jointed pavements shall be re-established during the patching operations. Class B Patches - when the pavement requires patching at the location of the expansion joint, a new joint should be established using a dowelled expansion patch as shown on Highway Standard 442101. When the joint is closed, but does not require patching, an expansion joint may be formed by sawing the pavement and filling the saw cut with a preformed expansion joint filler meeting the requirements of Section 1051 of the Standard Specifications as shown on Standard 420001.

All mandatory joint sealing for Class A, Class B, and Class B (Hinge Jointed) patches as shown on the plans will not be measured for payment. Optional sawing of the joint for the sealant reservoir will not be measured for payment.

For all concrete patching that will not be resurfaced, the concrete shall be struck off flush with the existing pavement surface at each end of the patch.

The Engineer reserves the right to check all patches for smoothness by the use of a 10' rolling straight edge set to a 3/16" tolerance in the wheel paths. Any patch areas higher than 3/16" must be ground smooth with an approved grinding device consisting of multiple saws. The use of bushhammer or other impact devices will not be permitted. Any patch with depressions greater than 3/16" shall be repaired in a manner approved by the Engineer.

The mandatory saw cuts for pavement patching are:

Class A Patch: Cut two transverse saw cuts at each end of the patch; one full depth and one partial depth. The longitudinal edges of the patch shall be cut full depth. When the patch is adjacent to a pcc shoulder, two saw cuts along the shoulder will be required.

Class B Patch: Cut two transverse saw cuts outlining the patch and one transverse pressure relief saw cut. The longitudinal edges of the patch shall be cut full depth. When the patch is adjacent to a pcc shoulder, two saw cuts along the shoulder will be required.

The mandatory saw cuts will be paid for at the contract unit price per Meter (Foot) for SAW CUTS.

The minimum patch dimension for full-depth patches will be 1.2 m (four feet) and half-lane width. Half-lane patches shall be confined to the outside edges of the pavement.

Cost of removal and disposal of material from the temporary patch shall be included in AGGREGATE BASE COURSE, TYPE B.

The following Mixture Requirements are applicable for this project:

Mixture Uses(s):	Surface	Top Shoulder	Bottom Shoulder
PG:	PG 64-22	PG 58-22	PG 58-22
Design Air Voids	4.2 @ N90	3 @ N50	2 @ N50
Mixture Composition (Gradation Mixture)	IL 9.5 or 12.5	IL 9.5 or 12.5	BAM
Friction Aggregate	D	C	N/A
20 Year ESAL	12.2	N/A	N/A

The new number for this structure will be SN 089-1200 at Sta. 374+84.61.

The review and approval of temporary soil retention system will require 4 to 6 weeks. The Contractor shall schedule his work accordingly.

The boring logs for this structure indicate that groundwater levels may encroach on the construction limits of this culvert. It shall be the responsibility of the contractor to control the ground water and divert the stream flow during construction in order to keep the construction area free of water. The method of controlling the water shall be subject to approval of the Engineer and the cost shall be included in the contract unit price for Concrete Box Culverts.

Culvert & bridge flows must be maintained throughout the project. Normal flow shall be allowed to pass at the rate it enters the jobsite. High flows shall be allowed to pass without causing damage to upstream properties.

A Precast Box Culvert is not an option on the project due to soil conditions.

The Contractor shall remove all entrance culverts in condition for reuse which are not to be left in place. They shall be cleaned and stored along the right of way as directed. In no case shall they be roughly handled or shoved by heavy machinery. Unusable material shall be disposed of by the Contractor at his expense. Cost of the work to be included in the contract unit price for EARTH EXCAVATION.

Program #5
(Arch. Size)
Enlarge
200%
Enlarge 107%

GENERAL NOTES

ROUTE NO.	SEC.	COUNTY	TOTAL SHEETS	SHEET NO.
FAP 301 (US 20)	21T-1	Stephenson	64	7
FED ROAD DIST. NO.	ILLINOIS	PROJECT		
Contract #64B48				

The proposed pipes for entrances and side roads shall be placed in line with the existing or proposed ditch line.

Where field tile is encountered, storm sewer or pipe drain will be used in accordance with Section 611. The minimum size for replacement will be 150 mm (6") for Pipe Drains and 200 mm (8") for Storm Sewer, but the size must be at least 50 mm (2") larger than the adjoining tile. A Field Tile Junction Vault will be constructed at the right of way to connect the tile and storm sewer.

The excavated materials from earth excavation widening, grading and shaping ditches, and excavating and grading shoulders shall be used to build up the shoulder throughout the job to conform with the typical sections as shown on the plans.

The waste from the excavated materials shall be taken to the Eleroy Maintenance Yard. Contact Colby Arids, Field Engineer, by email at ardiscv@dot.il.gov, and Chuck Johnson, Operations Maintenance Engineer, by email at johnsonch@dot.il.gov, prior to transporting the materials to get the exact location. The cost of transporting the excavated material shall be included in the contract unit price for EARTH EXCAVATION.

Delineators shall be installed as shown in Standard 635001, except that the post shall be rotated 180° and only metal-backed delineators shall be permitted.

Delineators shall be placed at the ends of approach guardrail terminal sections, and at each headwall or end section of AR Culverts. This work will be paid for at the contract unit price each for DELINEATORS.

Pavement Marking shall be done according to Standard 780001, except as follows:

1. All words, such as ONLY, shall be 2.4 m (8 feet) high.
2. All non-freeway arrows shall be the large size.
3. The distance between yellow no-passing lines shall be 200 mm (8"), not 180 mm (7") as shown in the detail of Typical Lane and Edge Lines.

PERMANENT SURVEY MARKERS, TYPE II, shall be set at intervals of 1.6 Km (1 mile) or as directed by the Engineer. Bridge or culvert projects shall have one survey marker placed near the structure. Estimated: 2 Each.

Permanent Survey Markers, Type II shall be cast-in-place as shown on Highway Standard 667101.

The Contractor shall submit to the Engineer a description of location, elevation, and coordinates for each permanent survey marker. The Engineer shall submit this information to the Survey Crew.

Aggregate Base Course, Type B, is provided in the plan quantities and shall be used only as needed when directed by the Engineer.

Right-of-way markers will be erected with the back face of the marker on the right-of-way line unless the new right-of-way line has been surveyed and pinned, in which instance the right-of-way markers will be erected 300 mm (12 inches) inside the new right-of-way line.

The Contractor shall be responsible for protecting utility property during construction operations as outlined in Article 107.31 of the Standard Specifications. A minimum of 48 hours advance notice is required for non-emergency work. The JULIE number is 800-892-0123. The following listed utilities located within the project limits or immediately adjacent to the project construction limits are members of JULIE:

Commonwealth Edison Co.

Verizon

The applicable portions of Article 105.07 of the Standard Specification shall apply except for the following: The Contractor shall be responsible to locate the vertical depths of the underground utilities which may interfere with construction operations. This work will not be measured or paid for separately, but shall be considered as included in the unit bid price for the item of construction involved.

Per SB 699 (90 day utility relocation law), once right-of-way is clear to award the project, a notice will be sent to the utility companies instructing them to have their facilities relocated within 90 days. Estimated date relocation complete = Letting Date + 135 days.

Tie bars shall be installed to tie PCC appurtenance to adjacent existing concrete pavement.

Tie the following to the existing concrete pavement		Length, size, and spacing of Tie Bars
Class B Patches	Std. 442101	600 mm (24") long No. 19 (No. 6) @ 750 mm (24") centers

Tie bars to be installed in accordance with the applicable portions of Article 442.06(a)(2) of the Standard Specifications. See Highway Standard 420001 for detail on longitudinal construction joint grouted-in-place tie bar.

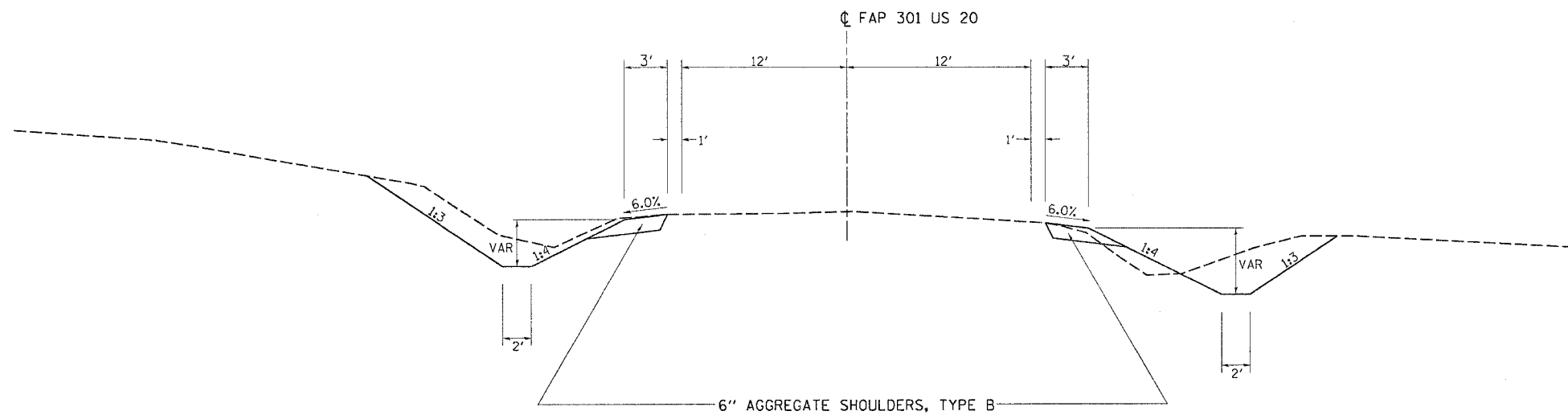
CADD data will be available to Contractors and Consultants working on this project. This information will be provided upon request as MicroStation CADD files and Geopak coordinate geometry files ONLY. If data is required in other formats it will be your responsibility to make these conversions. If any discrepancy or inconsistency arises between the electronic data and the information on the hard copy, the information on the hard copy should be used. Contact the District's Project Engineer to request these files.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
301	21T-1	STEPHENSON	64	8
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	

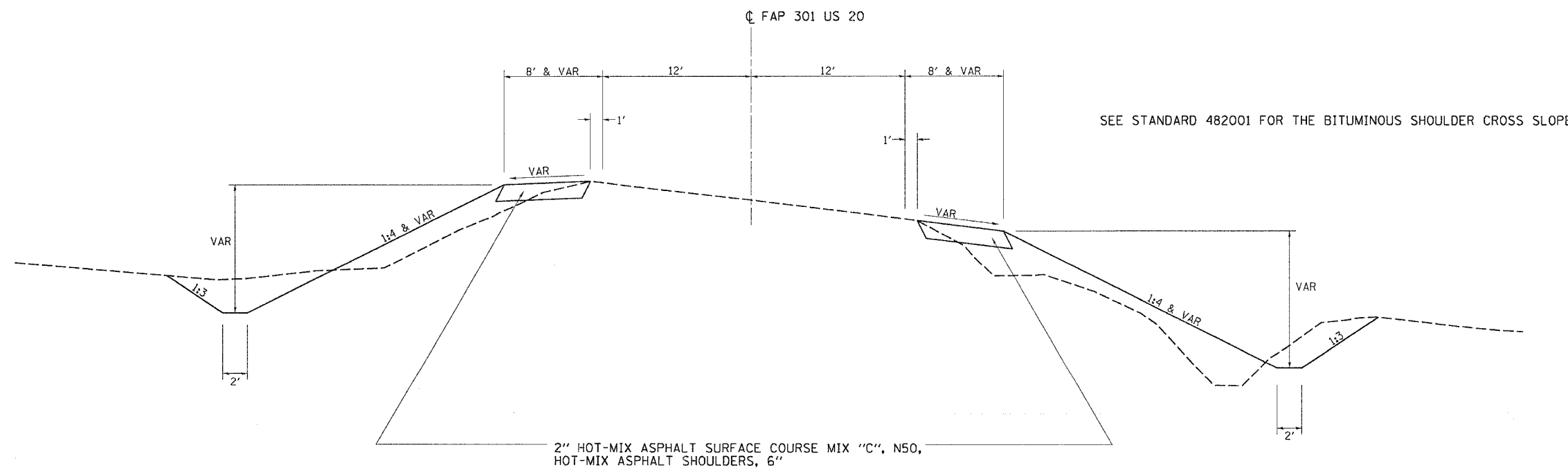
TYPICAL SECTION

SECTION 21T-1, STEPHENSON COUNTY, P92-111-05

STA 370+50 - STA 373+00 LT
 STA 371+50 - 373+00 RT



STA 373+00 - STA 374+67.12
 STA 375+02.12 - STA 389+37
 STA 385+62 - STA 389+50



PLOT DATE: Nov Dec 11 09:28:46 2005
 FILE NAME: S:\PROJECTS\21T1\p92-111-05.dgn
 PLOT SCALE: 5/8" = 1' / IN.
 REFERENCE: REF#

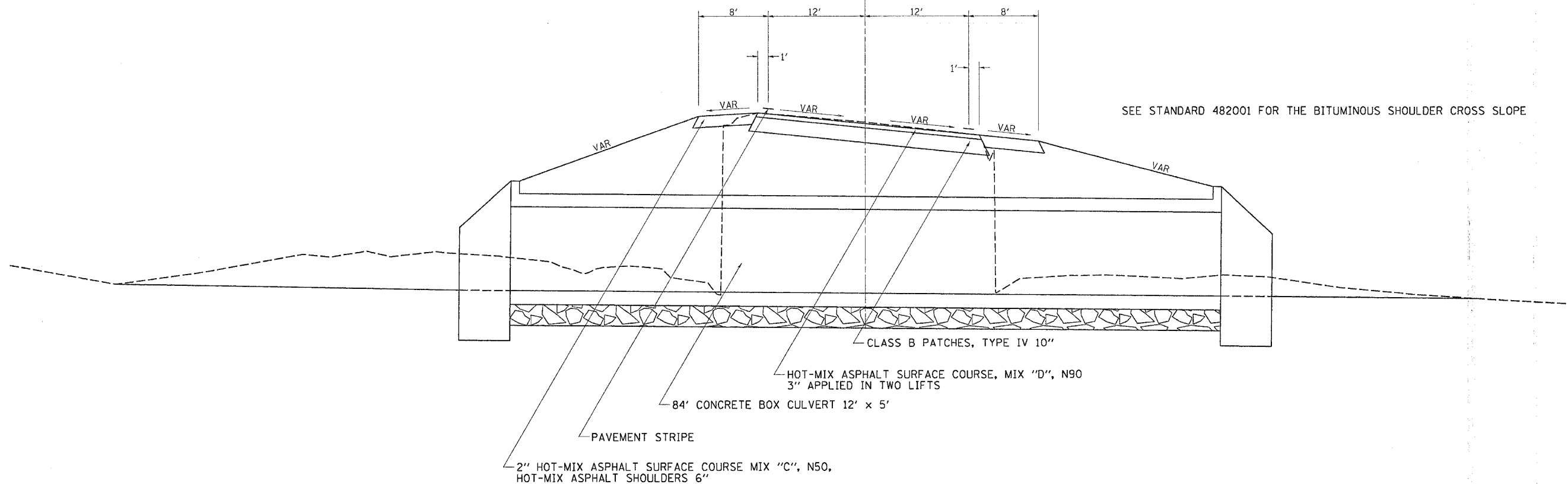
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
301	21T-1	STEPHENSON	64	9
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	

TYPICAL SECTION

SECTION 21T-1, STEPHENSON COUNTY, P92-111-05

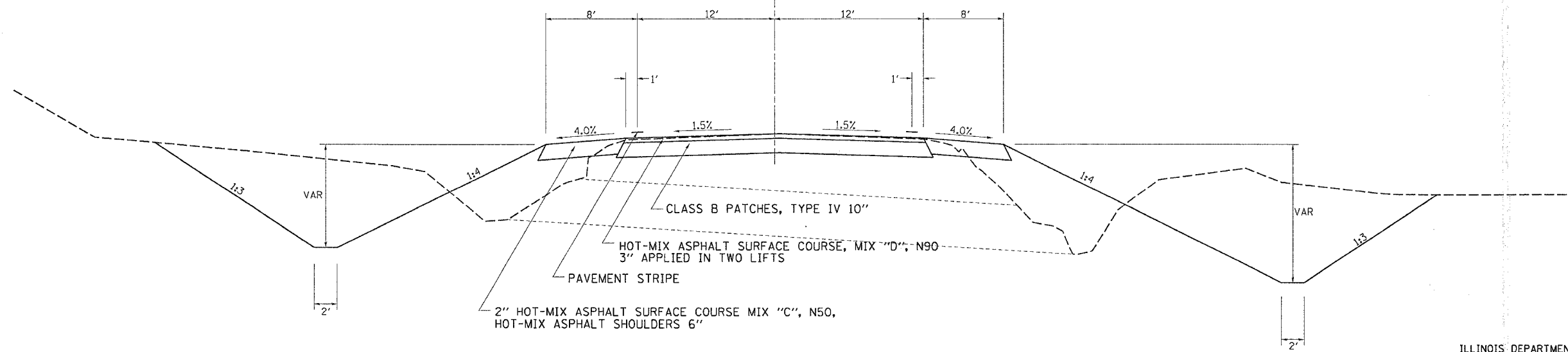
STA 374+67.12 - STA 375+02.12

☉ FAP 301 US 20



STA 385+37 - STA 385+62

☉ FAP 301 US 20



PLT DATE = Nov, Dec 11 09:18:48 2005
 FILE NAME = 21T11105.dwg
 PLOT SCALE = 50.0000 / IN.
 REFERENCE = REF*

SCHEDULE OF QUANTITIES

F.A.P. RITE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
301	211-J	STEPHENSON	64	10
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	

20100110 TREE REMOVAL (6 TO 15 UNITS DIAMETER)

UNIT	LOCATION	OFFSET	REMARKS
11	374+47	69' LT	
15	374+59	66' LT	
11	374+91	49' LT	
12	374+92	47' LT	
10	374+95	43' LT	
13	374+95	43' LT	
9	374+95	66' LT	
9	375+00	78' LT	
12	375+02	47' LT	
13	375+94	48' LT	
<hr/>			
115	TOTAL		

20100210 TREE REMOVAL (OVER 15 UNITS DIAMETER)

UNIT	LOCATION	OFFSET	REMARKS
26	374+41	64' LT	
28	374+42	68' LT	
19	374+64	69' LT	
18	375+93	43' LT	
<hr/>			
91	TOTAL		

20200100 EARTH EXCAVATION

CU. YD.	LOCATION	TO	FROM	OFFSET	REMARKS
5916	370+00	TO	389+50	LT & RT	
<hr/>					
5916	TOTAL				

25000210 SEEDING CLASS 2A

ACRE	LOCATION	TO	FROM	OFFSET	REMARKS
0.9	370+00	TO	389+50	LT	FORESLOPES
1.0	370+00	TO	389+50	RT	FORESLOPES
<hr/>					
2.0	TOTAL				

25000310 SEEDING CLASS 4

ACRE	LOCATION	TO	FROM	OFFSET	REMARKS
0.56	370+00	TO	389+50	LT	BACKSLOPES
0.41	370+00	TO	389+50	RT	BACKSLOPES
<hr/>					
0.97	TOTAL				

25000750 MOWING

ACRE	LOCATION	TO	FROM	OFFSET	REMARKS
1.46	370+00	TO	389+50	LT	
1.41	370+00	TO	389+50	RT	
<hr/>					
2.87	TOTAL				

25100115 MULCH METHOD 2

ACRE	LOCATION	TO	FROM	OFFSET	REMARKS
1.46	370+00	TO	389+50	LT	
1.41	370+00	TO	389+50	RT	
<hr/>					
2.87	TOTAL				

25100630 EROSION CONTROL BLANKET

SQ. YD.	LOCATION	TO	FROM	OFFSET	REMARKS
1150	372+50	TO	384+00	LT	
950	373+00	TO	382+50	RT	
232	387+18	TO	389+50	LT	
<hr/>					
2332	TOTAL				

28000250 TEMPORARY EROSION CONTROL SEEDING

POUND	LOCATION	TO	FROM	OFFSET	REMARKS
1148	370+00	TO	389+50	LT & RT	4 APPLICATIONS IF APPLICABLE
<hr/>					
1148	TOTAL				

28000300 TEMPORARY DITCH CHECKS

EACH	LOCATION	TO	FROM	OFFSET	REMARKS
1	371+50			RT	
9	372+50	TO	375+00	LT	30' SPACING
7	373+00	TO	374+84.6	RT	30' SPACING
13	375+00	TO	384+00	LT	75' SPACING
11	374+84.6	TO	382+50	RT	75' SPACING
4	387+18	TO	389+50	LT	75' SPACING
1	384+00			RT	
1	385+50			RT	
1	385+50			LT	
1	387+00			RT	
1	388+50			RT	
<hr/>					
50	TOTAL				

28000400 PERIMETER EROSION BARRIER

EQQT	LOCATION	TO	FROM	OFFSET	REMARKS
300	374+50	TO	375+50	LT	
75	374+50			RT	
75	375+50			RT	
<hr/>					
450	TOTAL				

28000500 INLET AND PIPE PROTECTION

EACH	LOCATION	OFFSET	REMARKS
1	370+58.0	LT	
<hr/>			
1	TOTAL		

35100100 AGGREGATE BASE COURSE TYPE A

TON	LOCATION	TO	FROM	OFFSET	REMARKS
47	373+00.0	TO	376+50.0	LT	Assume 4" build up for Stage I
<hr/>					
47	TOTAL				

35101400 AGGREGATE BASE COURSE TYPE B

TON	LOCATION	TO	FROM	OFFSET	REMARKS
63	370+88			LT	FE (8" THICKNESS)
31	385+37	TO	385+62		10" Thickness 13' x 25' Temporary Patch
31	385+37	TO	385+62		10" Thickness 13' x 25' Temporary Patch
<hr/>					
125	TOTAL				

40603310 HOT MIX ASPHALT SURFACE COURSE MIX "C", N50

TON	LOCATION	TO	FROM	OFFSET	REMARKS
128	373+00	TO	389+50	LT	Leave 3.5' Shoulder for Stage II except patch area
15	373+50	TO	376+50	LT	3.5' Shoulder for Temp Pavement/Stage I
141	373+00	TO	389+50	RT	
<hr/>					
284	TOTAL				

40603345 HOT MIX ASPHALT SURFACE COURSE MIX "D", N90

TON	LOCATION	TO	FROM	OFFSET	REMARKS
17	374+67.12	TO	375+02.12		3" applied in 2 lifts
12	385+37	TO	385+62		3" applied in 2 lifts
<hr/>					
29	TOTAL				

40800050 INCIDENTAL HOT-MIX SURFACING

TON	LOCATION	TO	FROM	OFFSET	REMARKS
6	385+37	TO	385+62		3" Thickness 13' x 25' Temporary Patch
6	385+37	TO	385+62		3" Thickness 13' x 25' Temporary Patch
<hr/>					
12	TOTAL				

42001200 PAVEMENT FABRIC

SQ. YD.	LOCATION	TO	FROM	OFFSET	REMARKS
101	374+67.12	TO	375+02.12		
72	385+37	TO	385+62		
<hr/>					
173	TOTAL				

44200976 CLASS B PATCHES TYPE IV, 10 INCH

SQ. YD.	LOCATION	TO	FROM	OFFSET	REMARKS
101	374+67.12	TO	375+02.12		
72	385+37	TO	385+62		
<hr/>					
173	TOTAL				

44213200 SAW CUTS

EQQT	LOCATION	TO	FROM	OFFSET	REMARKS
113	374+67.12	TO	375+02.12		
103	385+37	TO	385+62		
<hr/>					
216	TOTAL				

48101200 AGGREGATE SHOULDERS TYPE B

TON	LOCATION	TO	FROM	OFFSET	REMARKS
31	371+16	TO	373+00	LT	6" THICKNESS
26	371+50	TO	373+00	RT	6" THICKNESS
<hr/>					
57	TOTAL				

48203021 HOT MIX ASPHALT SHOULDERS 6"

SQ. YD.	LOCATION	TO	FROM	OFFSET	REMARKS
1144	373+00	TO	389+50	LT	Leave 3.5' Shoulder for Stage II except patch area
136	373+00	TO	376+50	LT	3.5' Shoulder for Temp Pavement/Stage I
1256	373+00	TO	389+50	RT	
<hr/>					
2536	TOTAL				

PLOT DATE = Tue Jan 16 10:58:03 2007
 PLOT SCALE = 1/4" = 50'-0" (1:200)
 PLOT SIZE = 24" x 36"
 REFERENCE = REF8

SCHEDULE OF QUANTITIES

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
30L	21L-J	STEPHENSON	69	11
STA. _____		TO STA. _____		
FED. ROAD DIST. NO. _____		ILLINOIS FED. AID PROJECT		

50100300	REMOVAL OF EXISTING STRUCTURE NO. 1				
	EACH LOCATION	OFFSET	REMARKS		
	1 374+84.6		12' X 7' Box Culvert		
	1 TOTAL				
50100400	REMOVAL OF EXISTING STRUCTURE NO. 2				
	EACH LOCATION	OFFSET	REMARKS		
	1 385+50		3' X 2' Box Culvert		
	1 TOTAL				
50200400	ROCK EXCAVATION FOR STRUCTURES				
	CY LOCATION	OFFSET	REMARKS		
	50 374+85		USE IF APPLICABLE		
	50 TOTAL				
54205470	PIPE CULVERTS, CLASS D, TYPE I, EQUIVALENT ROUND-SIZE 15"				
	FOOT LOCATION	OFFSET	REMARKS		
	60 370+58 TO 371+18	LT	FE		
	60 TOTAL				
54214290	END SECTIONS, EQUIVALENT ROUND-SIZE 15"				
	EACH LOCATION	OFFSET	REMARKS		
	1 370+58	LT	FE		
	1 371+18	LT	FE		
	2 TOTAL				
61100500	EXPLORATION TRENCH 52" DEPTH				
	FOOT LOCATION	OFFSET	REMARKS		
	100 374+35 TO 375+35	LT			
	100 374+35 TO 375+35	RT			
	50 385+25 TO 385+75	LT			
	50 385+25 TO 385+75	RT			
	300 TOTAL				
63200310	GUARDRAIL REMOVAL				
	FOOT LOCATION	OFFSET	REMARKS		
	85 374+40 TO 375+25	RT	Inside curve		
	250 374+40 TO 376+80	LT	Outside Curve		
	65 385+08 TO 385+73	RT			
	65 385+25 TO 385+90	LT			
	465 TOTAL				
63500105	DELINEATORS				
	EACH LOCATION	OFFSET	REMARKS		
	2 374+84.6	LT & RT			
	2 TOTAL				
66600105	FURNISHING AND ERECTING RIGHT OF WAY MARKERS				
	EACH LOCATION	OFFSET	REMARKS		
	1 372+00	33' LT			
	1 372+00	33' RT			
	1 374+00	65' RT			
	1 374+34	105.41' LT			
	1 377+00	60' RT			
	1 378+00	60' RT			
	1 389+00	60' RT			
	1 390+00	33' RT			
	8 TOTAL				
66700305	PERMANENT SURVEY MARKERS, TYPE II				
	EACH LOCATION	OFFSET	REMARKS		
	2 ENTIRE JOB				
	2 TOTAL				
70106700	TEMPORARY RUMBLE STRIP				
	EACH LOCATION	OFFSET	REMARKS		
	1 339+60.9				
	1 344+60.9				
	1 349+60.9				
	1 354+60.9				
	1 359+60.9				
	1 364+60.9				
	1 385+08.3				
	1 390+08.3				
	1 395+08.3				
	1 400+08.3				
	1 405+08.3				
	1 410+08.3				
	12				

70106800	CHANGEABLE MESSAGE SIGN				
	CAL. MO. LOCATION	OFFSET	REMARKS		
	1 BEGINNING OF PROJECT				
	1 END OF PROJECT				
	2				
70300100	SHORT-TERM PAVEMENT MARKING				
	FOOT LOCATION	OFFSET	REMARKS		
	57 371+73.5 TO 377+45.2	CL			
	330 373+00.0 TO 389+50.0	RT & LT			
	387 TOTAL				
70300520	PAVEMENT MARKING TAPE, TYPE III 4"				
	FOOT LOCATION	OFFSET	REMARKS		
	627.3 371+70.9 TO 377+98.2	RT	STAGE I (WHITE)		
	350.0 373+00.0 TO 376+50.0	LT	STAGE I (WHITE)		
	626.9 371+71.2 TO 377+98.1	LT	STAGE II (WHITE)		
	400.0 373+00.0 TO 377+00.0	RT	STAGE II (WHITE)		
	2004.2 TOTAL				
70300570	PAVEMENT MARKING TAPE, TYPE III 24"				
	FOOT LOCATION	OFFSET	REMARKS		
	12 371+61.2	RT			
	12 378+08.0	LT			
	24 TOTAL				
70301000	WORK ZONE PAVEMENT MARKING REMOVAL				
	SO. FT. LOCATION	OFFSET	REMARKS		
	431.6 Stage I				
	342.3 Stage II				
	48.0 Stop Bars				
	821.9 TOTAL				
70400100	TEMPORARY CONCRETE BARRIER				
	FOOT LOCATION	OFFSET	REMARKS		
	275 373+47 TO 376+22		STAGE I		
	275 TOTAL				
70400200	RELOCATE TEMPORARY CONCRETE BARRIER				
	FOOT LOCATION	OFFSET	REMARKS		
	275 373+48 TO 376+22		STAGE II		
	275 TOTAL				
78001110	PAINT PAVEMENT MARKING - LINE 4"				
	FOOT LOCATION	OFFSET	REMARKS		
	7600 370+50 TO 389+50	RT & LT	white edge lines (2 applications)		
	2520 370+50 TO 376+80	CL	Double Yellow (2 applications)		
	636 376+80 TO 389+50	CL	yellow skip dash (2 applications)		
	10756 TOTAL				
78100100	RAISED REFLECTIVE PAVEMENT MARKER				
	EACH LOCATION	OFFSET	REMARKS		
	1 374+85				
	1 385+50				
	2 TOTAL				
78300100	PAVEMENT MARKING REMOVAL				
	SO. FT. LOCATION	OFFSET	REMARKS		
	431.6 371+60.9 TO 378+08.3	CL	STAGE I - Double Yellow		
	116.7 373+00.0 TO 376+50.0	LT	STAGE I - white edge line		
	133.3 37+00.0 TO 377+00.0	RT	STAGE II - white edge line		
	681.6 TOTAL				
78300200	RAISED REFLECTIVE PAVEMENT MARKER REMOVAL				
	EACH LOCATION	OFFSET	REMARKS		
	1 374+84.6				
	1 385+50				
	2 TOTAL				
20005400	BREAKER-RUN CRUSHED STONE				
	ION LOCATION	OFFSET	REMARKS		
	108.4 374+84.6		(12") 17'x 84' UNDER CULVERT & END SECTIONS		
	108.4 TOTAL				

PLOT DATE : Tue Jan 16 10:58:12 2007
 FILE NAME : c:\projects\64B48\1105\1105.dgn
 PLOT SCALE : 1" = 100'
 REFERENCE : REFERENCE

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
30L	2LT-1	STEPHENSON	64	12
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

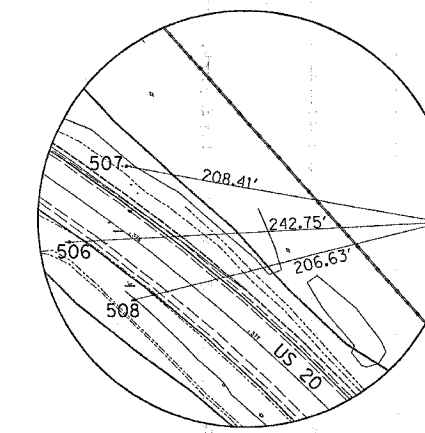
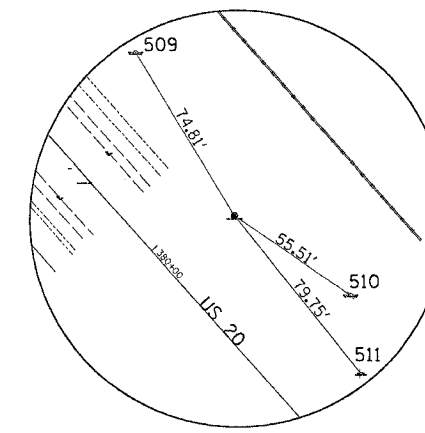
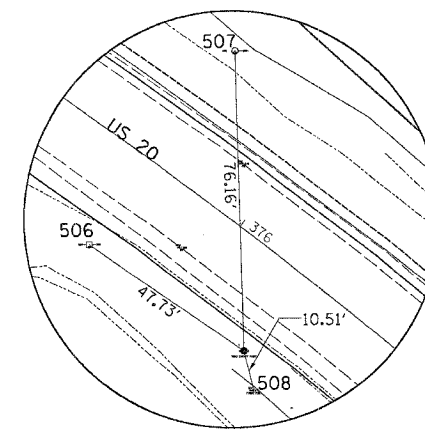
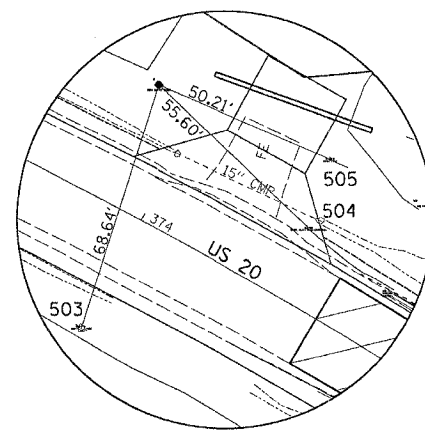
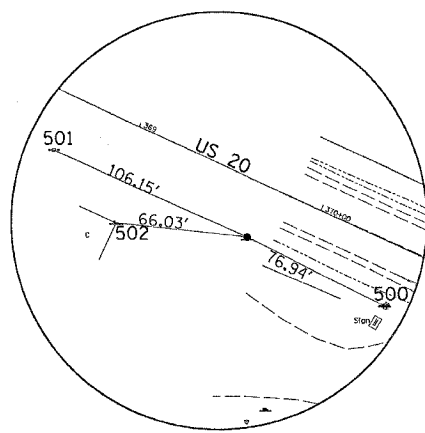
SCHEDULE OF QUANTITIES

Z0028700	GRANULAR SUBGRADE REPLACEMENT			
	CU YD	LOCATION	OFFSET	REMARKS
	17	374+84.6		26'x35' UNDER PATCH
	12	385+50		26'x25' UNDER PATCH
	29 TOTAL			
Z0030250	IMPACT ATTENUATORS, TEMPORARY (NON-REDIRECTIVE), TEST LEVEL 3			
	EACH	LOCATION	OFFSET	REMARKS
	1	373+47.3	4' RT	STAGE I
	1	376+22	4' RT	STAGE I
	2 TOTAL			
Z0030350	IMPACT ATTENUATORS, RELOCATE (NON-REDIRECTIVE), TEST LEVEL 3			
	EACH	LOCATION	OFFSET	REMARKS
	1	373+58.7	5.87' LT	STAGE II
	1	376+22	5.35' LT	STAGE II
	2 TOTAL			
Z0075300	TIE BARS			
	EACH	LOCATION	OFFSET	REMARKS
	18	374+67.12	TO 375+02.12	
XX004900	TIRE REINFORCEMENT MAT			
	SQ. YD	LOCATION	OFFSET	REMARKS
	333	374+84.6	LT	12' Streambed and 1:4 & Var Slopes
	239	374+84.6	RT	12' Streambed and 1:4 & Var Slopes
	572 TOTAL			
X0323988	TEMPORARY SOIL RETENTION SYSTEM			
	SQ. FT	LOCATION	OFFSET	REMARKS
	286	374+58.6	TO 375+10.6	
	286 TOTAL			

PLOT DATE = Tue Jan 16 10:56:28 2007
 FILE NAME = c:\projects\21105\11105.dgn
 PLOT SCALE = 50.0000 7 / IN
 REFERENCE = SHEET

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
301	21T-1	STEPHENSON	64	14
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

HORIZONTAL & VERTICAL CONTROL



HORIZONTAL CONTROL POINT NO. 1 HORIZONTAL CONTROL POINT NO. 2 HORIZONTAL CONTROL POINT NO. 3 HORIZONTAL CONTROL POINT NO. 4 HORIZONTAL CONTROL POINT NO. 6

HORIZONTAL CONTROL POINTS

POINT	NORTH	EAST	ELEVATION	CHAIN	STATION	OFFSET	DESCRIPTION
1	2070325.7830	2398466.3770	915.5410	US20	369+72.12	27.4435' RT	SURVEY POINT, PIN
2	2070205.3590	2398870.0720	912.2430	US20	373+87.41	34.2128' LT	SURVEY POINT, PIN
3	2070029.5980	2399034.3170	906.4730	US20	376+20.20	24.4638' RT	SURVEY POINT, PIN
4	2069793.4570	2399348.8950	911.0090	US20	380+11.27	33.6754' LT	SURVEY POINT, PIN
5	2069672.8400	2399553.4640	922.1720	US20	382+37.31	106.5131' LT	SURVEY POINT, PIN
6	2070069.6090	2399237.3320	915.9070	US20	377+42.28	138.7107' LT	SURVEY POINT, PIN
7	2070317.6170	2399100.0730	904.7310	US20	375+14.59	247.9810' LT	SURVEY POINT, PIN
8	2070545.6740	2399404.4340	907.2820	US20	376+01.87	610.2285' LT	SURVEY POINT, PIN
9	2070732.9870	2399790.2740	910.0930	US20	377+10.66	1001.1728' LT	SURVEY POINT, PIN
10	2070423.2410	2398241.7290	920.1350	US20	367+27.32	33.1963' RT	SURVEY POINT, PK NAIL
11	2070349.2160	2398213.4030	915.5700	US20	367+32.65	112.2761' RT	SURVEY POINT, PK NAIL
90435	2072090.1750	2396769.1440	930.1750	US20	OUT OF CHAIN	-----	GPS CONTROL POINT, PIN
90442	2072908.8380	2398352.3750	916.7420	US20	OUT OF CHAIN	-----	GPS CONTROL POINT, PIN

APPARENT PROPERTY CORNERS

POINT	NORTH	EAST	ELEVATION	CHAIN	STATION	OFFSET	DESCRIPTION
700	2070239.5390	2398475.3940	913.7050	US20	370+16.48	101.9528' RT	PROPERTY CORNER, PIN
701	2070143.6060	2398474.1410	907.1430	US20	370+55.58	189.5651' RT	PROPERTY CORNER, PIN
702	2070199.3330	2398725.2140	913.0010	US20	372+60.13	33.6694' RT	PROPERTY CORNER, PIN

SURVEY WORK POINTS

POINT	NORTH	EAST	ELEVATION	CHAIN	STATION	OFFSET	DESCRIPTION
100	2069960.0950	2398764.4670	900.0570	US20	374+12.31	231.8435' RT	SURVEY POINT, NAIL
101	2070093.0020	2398936.8420	905.0810	US20	375+01.49	29.3203' RT	SURVEY POINT, NAIL
102	2070172.9690	2398940.8220	908.7420	US20	374+62.77	40.6730' LT	SURVEY POINT, NAIL
103	2070209.6840	2399004.2030	903.0400	US20	374+95.45	105.2666' LT	SURVEY POINT, CHISELED "X"

REFERENCE TIES

POINT	CHAIN	STATION	OFFSET	DESCRIPTION
500	US20	370+49.03	29.9155' RT	POWER POLE WITH TRANSFORMER, SHINER
501	US20	368+65.98	28.4917' RT	POWER POLE, SHINER
502	US20	369+09.50	48.3733' RT	COMMERCIAL BUILDING, CORNER
503	US20	373+99.52	33.3548' RT	POWER POLE, SHINER
504	US20	374+40.10	20.1748' LT	GUARDRAIL STEEL PLATE BEAM, END
505	US20	374+36.00	39.0044' LT	FENCE POST, SHINER
506	US20	375+71.55	26.6327' RT	POWER POLE, SHINER
507	US20	375+72.76	34.9746' LT	GUY POLE, SHINER
508	US20	376+28.72	30.8692' RT	FENCE POST, SHINER
509	US20	379+37.66	47.0274' LT	TELEGRAPH POLE, SHINER
510	US20	380+65.16	47.0269' LT	TELEGRAPH POLE, SHINER
511	US20	380+90.92	29.5700' LT	WARNING SIGN, SHINER

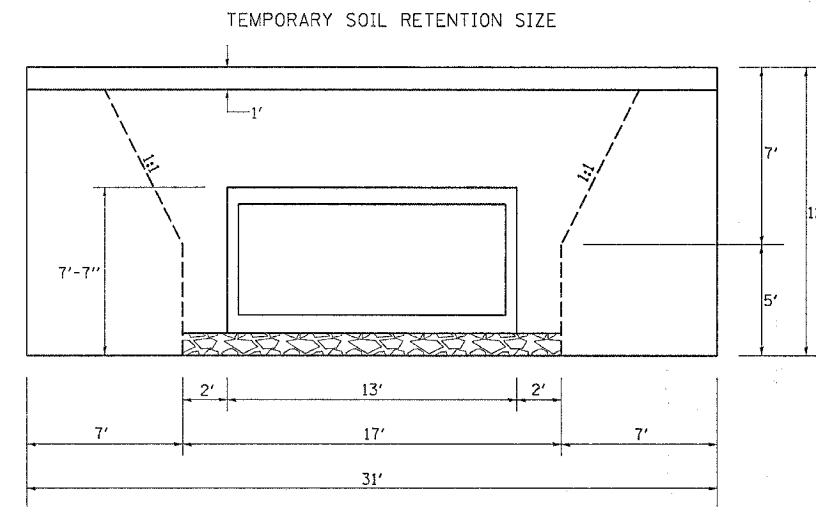
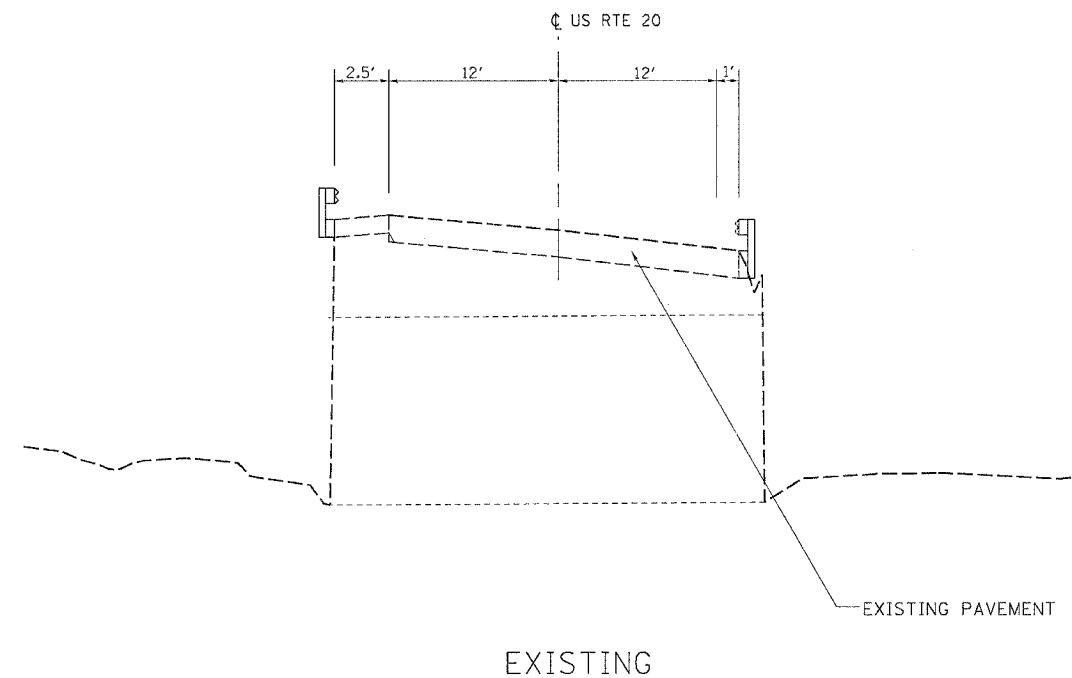
BENCH MARKS

POINT	NORTH	EAST	ELEVATION	CHAIN	STATION	OFFSET	DESCRIPTION
401	2070291.4380	2398534.9590	916.8950	US20	370+48.79	29.8561' RT	POWER POLE WITH TRANSFORMER, RAILROAD SPIKE
402	2070149.5000	2398931.5960	909.4890	US20	374+66.91	15.8144' LT	HEADWALL, CHISELED SQUARE
403	2070215.5030	2398994.2020	906.8330	US20	374+84.76	104.8475' LT	TOP OF WINGWALL, CHISELED SQUARE
404	2069697.1150	2399346.8580	912.4290	US20	380+81.95	31.8299' RT	POWER POLE, RAILROAD SPIKE

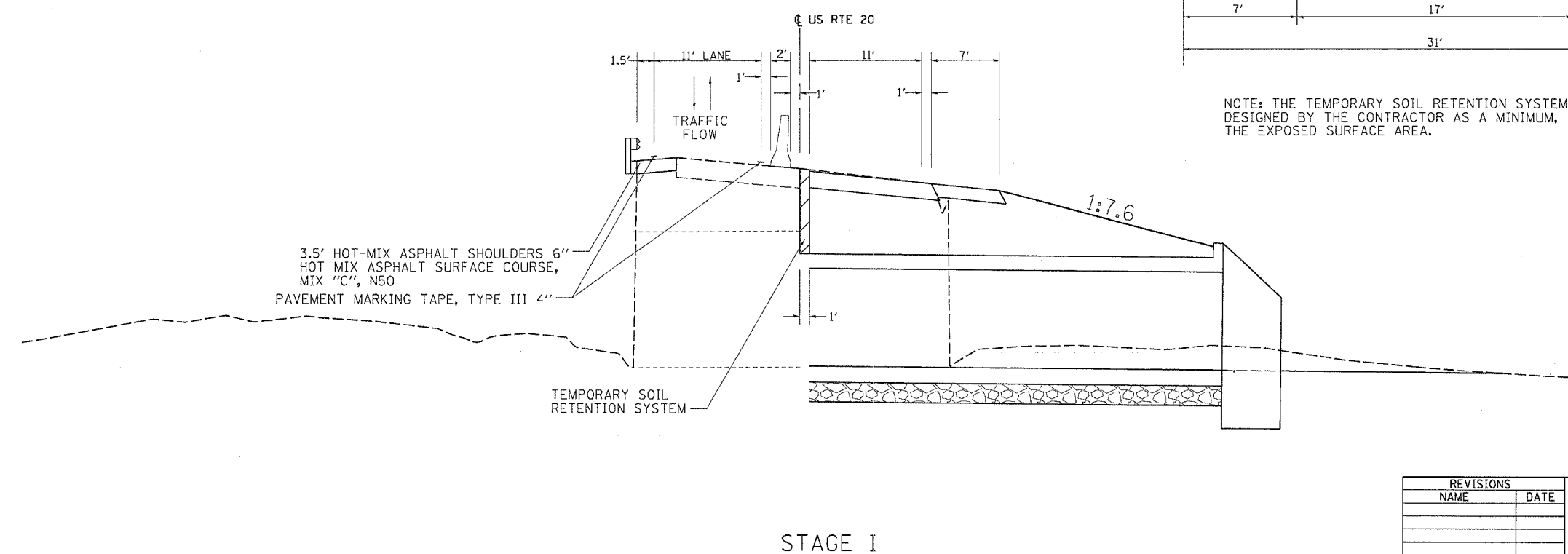
PLOT DATE * Mon, Dec 11 09:41:09 2006
 FILE NAME * c:\pvc\pctsa\211085\dl1128\dwg
 PLOT SCALE * 3/8"=1'-0"
 USER NAME * minkesly

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
301	21T-1	STEPHENSON	64	15
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

STAGING TYPICALS



NOTE: THE TEMPORARY SOIL RETENTION SYSTEM SHALL BE DESIGNED BY THE CONTRACTOR AS A MINIMUM, TO RETAIN THE EXPOSED SURFACE AREA.



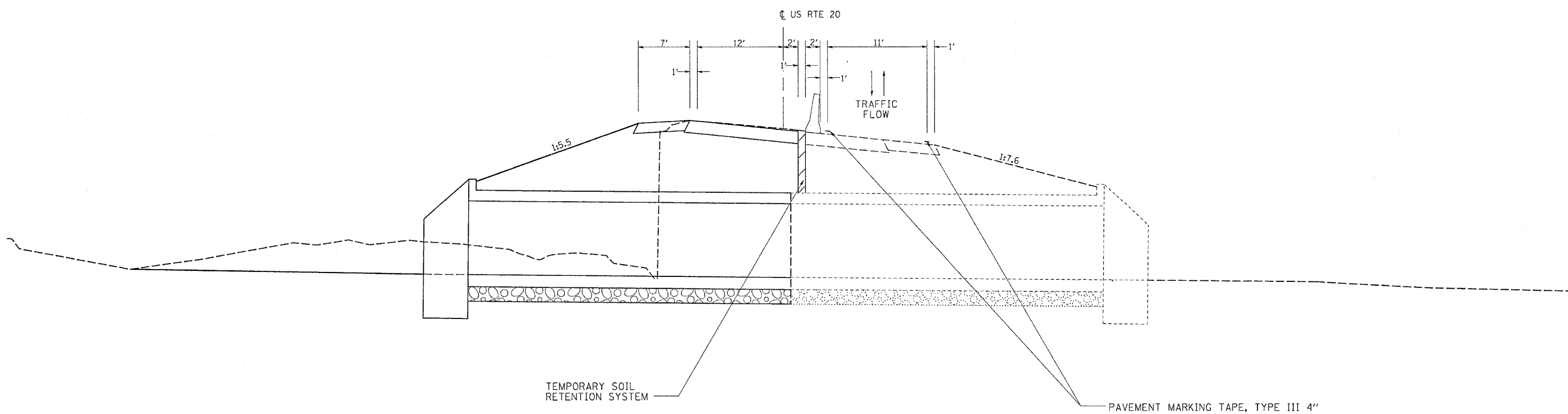
PLOT DATE = Mon Dec 11 09:11:45 2006
 FILE NAME = s:\projects\64b48\211105\staging\staging.dgn
 USER NAME = jerryj

REVISIONS		ILLINOIS DEPARTMENT OF TRANSPORTATION
NAME	DATE	
		SCALE: VERT. _____ HORIZ. _____ DATE _____

DRAWN BY _____
 CHECKED BY _____
STAGING TYPICALS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
301	211-J	STEPHENSON	64	16
STA. _____		TO STA. _____		
FED. ROAD DIST. NO. _____		ILLINOIS FED. AID PROJECT		

STAGING TYPICALS



STAGE II

Drainage Area =		436 Acres		Existing Low Grade Elevation:		908.79 ft. @ Sta 376+36.		Proposed Low Grade Elevation:		908.79 ft. @ Sta 376+36.	
Flood	Frequency Year	Discharge cfs	Waterway Opening (sq ft)		Natural H.W.E	Head (ft)		Headwater Elev. (ft)			
			Existing	Proposed		Existing	Proposed	Existing	Proposed		
Ten-Year Design Base	10	236	54.7	42.6	904.35	0.07	0.21	904.42	904.56		
	50	364	56.6	44.5	904.51	0.11	1.34	904.62	905.85		
	100	417	58.6	46.4	904.67	0.70	1.67	905.37	906.34		
Max Calc	500	543	60.7	48.6	904.85	1.74	2.93	906.59	907.78		

10-Year Velocity through Existing Structure = 5.5 fps
 10-Year Velocity through Proposed Structure = 10.6 fps

REVISIONS		ILLINOIS DEPARTMENT OF TRANSPORTATION
NAME	DATE	

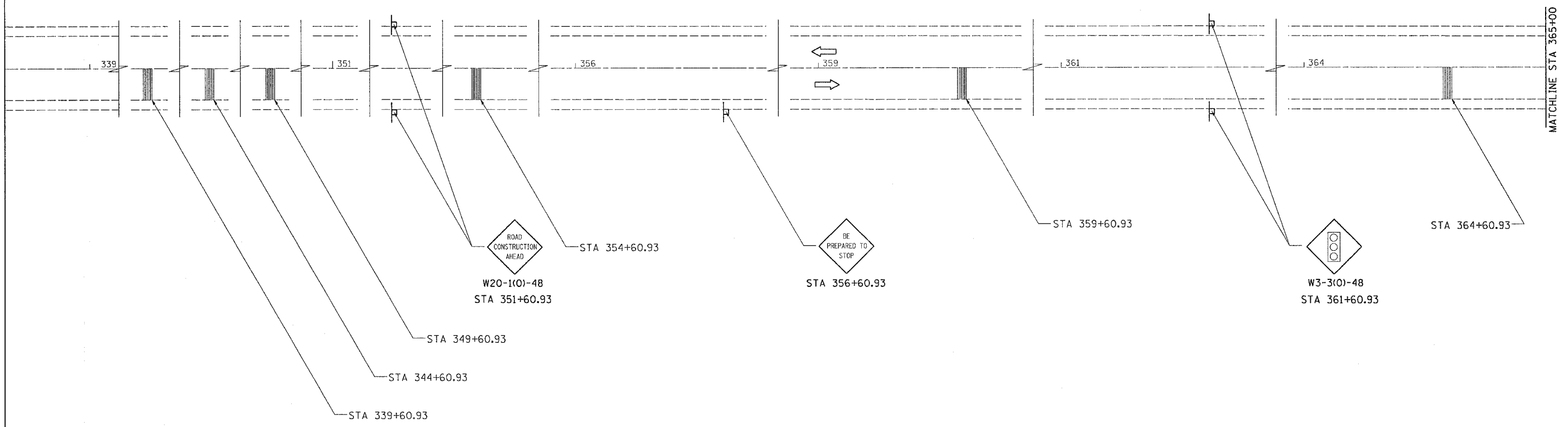
SCALE: VERT. _____
 HORIZ. _____
 DATE _____
 DRAWN BY _____
 CHECKED BY _____

STAGING TYPICALS

PLOT DATE = Tue Jan 16 10:59:52 2007
 PLOT SCALE = 1" = 20' (Horizontal) / 1" = 4' (Vertical)
 PLOT USER = rnkshu




STAGE I

CONTRACT NO. 64B48			
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS
301	21L-J	STEPHENSON	64
STA. 339±00		TO STA. 365±00	
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT



PLOT DATE = Tue Jan 16 10:57:45 2007
 PLOT SCALE = 20.0000 / 1.0000
 USER NAME = rnkash1

SEE HIGHWAY STANDARDS 701321-08, & 704001-03 FOR OTHER DEVICES NOT SHOWN

-  TEMPORARY RUMBLE STRIP
-  DRUM WITH STEADY BURNING LIGHT
-  TRAFFIC SIGNAL

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

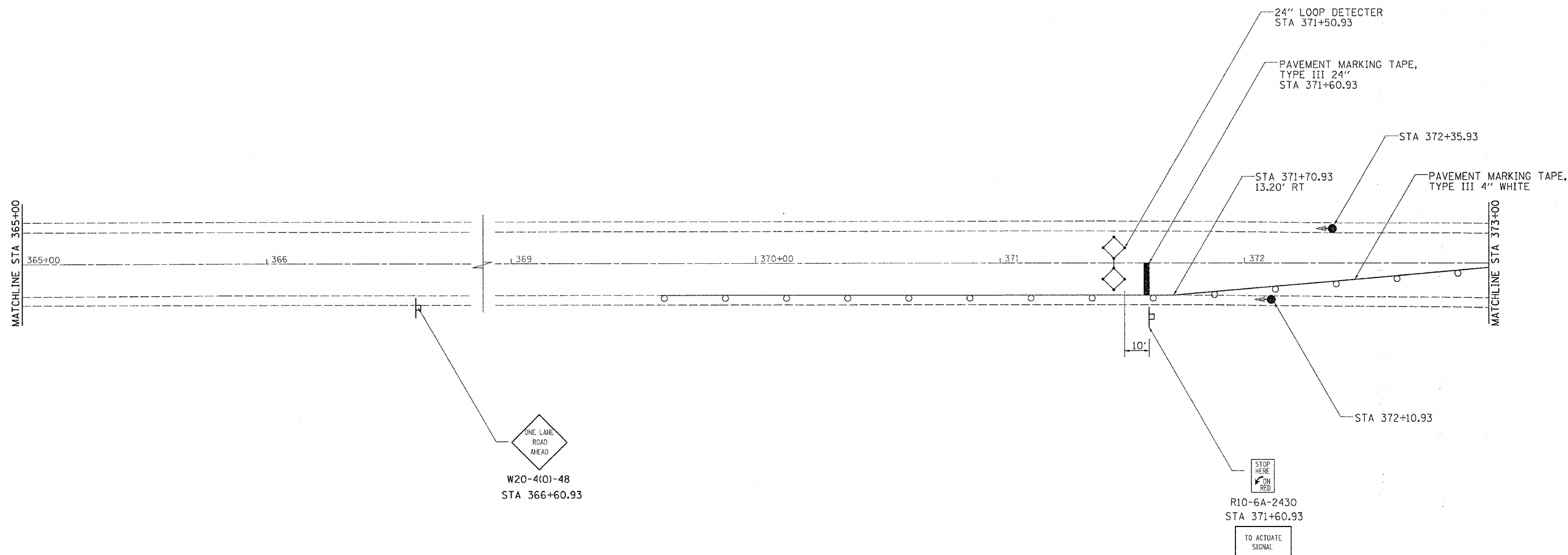
SCALE: VERT. _____
 HORIZ. _____

DATE _____




DRAWN BY _____
 CHECKED BY _____

STAGE I

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
301	21T-1	STEPHENSON	64	18
STA. 365+00		TO STA. 373+00		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



SEE HIGHWAY STANDARDS 701321-08, & 704001-03 FOR OTHER DEVICES NOT SHOWN

-  TEMPORARY RUMBLE STRIP
-  DRUM WITH STEADY BURNING LIGHT
-  TRAFFIC SIGNAL

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

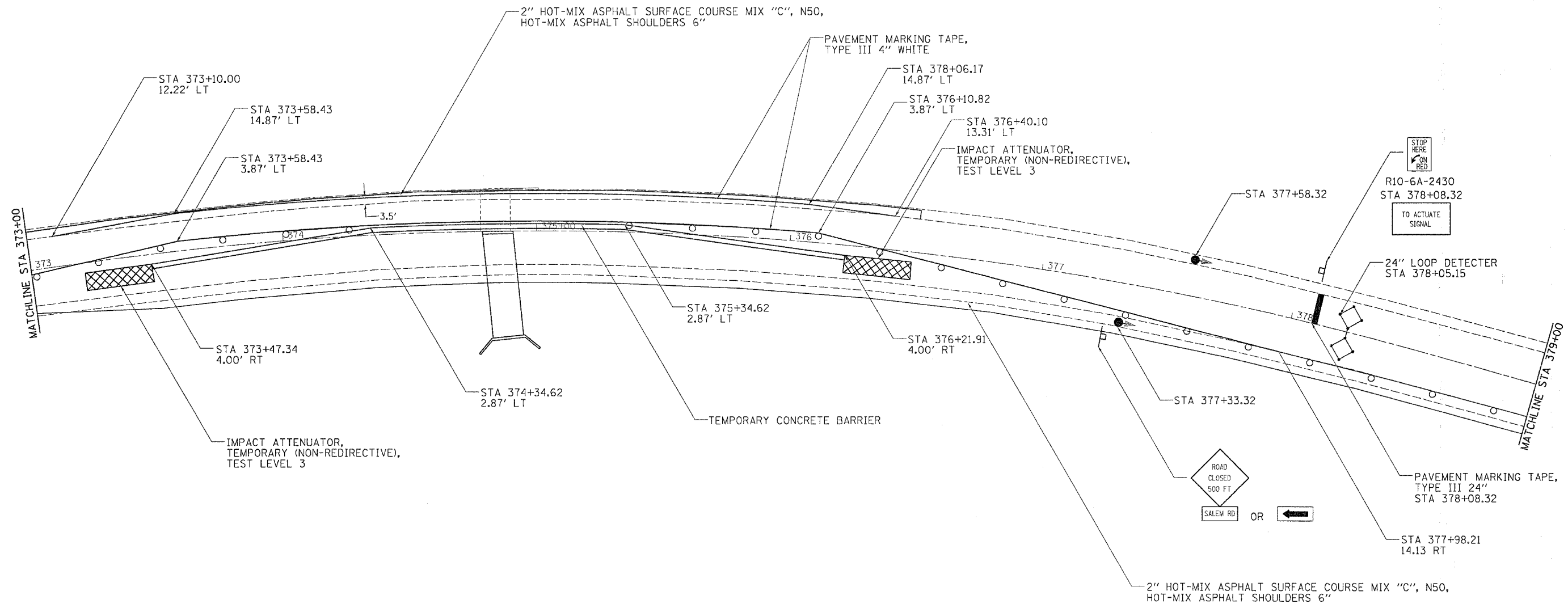
SCALE: VERT. HORIZ. DATE

DRAWN BY CHECKED BY




PLOT DATE: Mon Dec 11 09:11:46 2006
 FILE NAME: c:\p\projects\64b48\stage1\stage1.dgn
 SCALE: 28.8000 / IN.
 USER NAME: jpenrod

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
301	21T-1	STEPHENSON	64	19
STA. 373+00		TO STA. 379+00		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

STAGE I



SEE HIGHWAY STANDARDS 701321-08, & 704001-03
FOR OTHER DEVICES NOT SHOWN

-  TEMPORARY RUMBLE STRIP
-  DRUM WITH STEADY BURNING LIGHT
-  TRAFFIC SIGNAL

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

SCALE: VERT.
HORIZ.
DATE

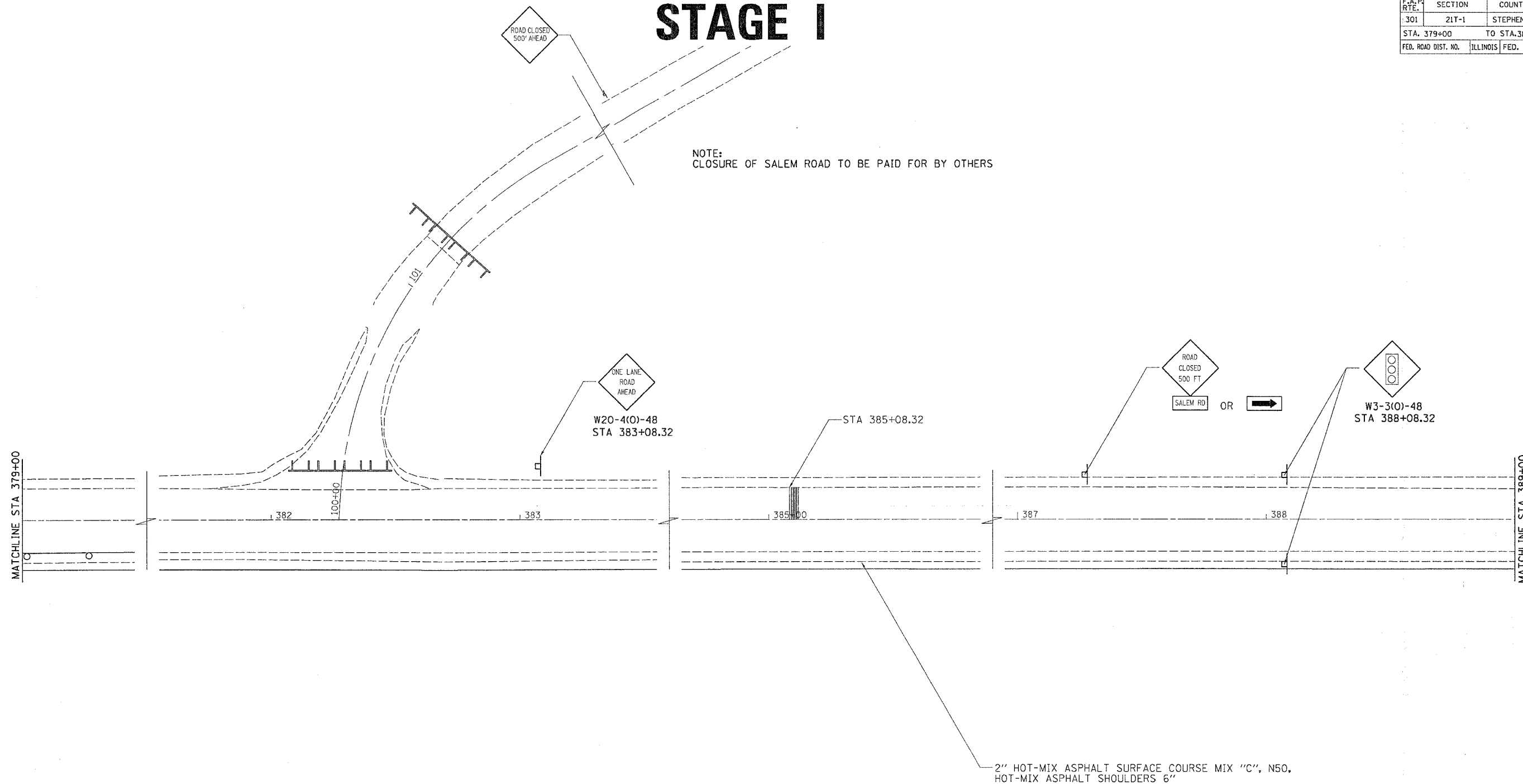
DRAWN BY
CHECKED BY

Plot Date = Mon, Dec 11, 2006 11:46:56 AM
File Name = c:\p21105\21105.dgn
Plot Scale = 24.0000' / IN.
User Name = ramhailj




F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
301	21T-1	STEPHENSON	64	20
STA. 379+00		TO STA. 389+00		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

STAGE I

NOTE:
CLOSURE OF SALEM ROAD TO BE PAID FOR BY OTHERS



SEE HIGHWAY STANDARDS 701321-08, & 704001-03
FOR OTHER DEVICES NOT SHOWN

-  TEMPORARY RUMBLE STRIP
-  DRUM WITH STEADY BURNING LIGHT
-  TRAFFIC SIGNAL

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

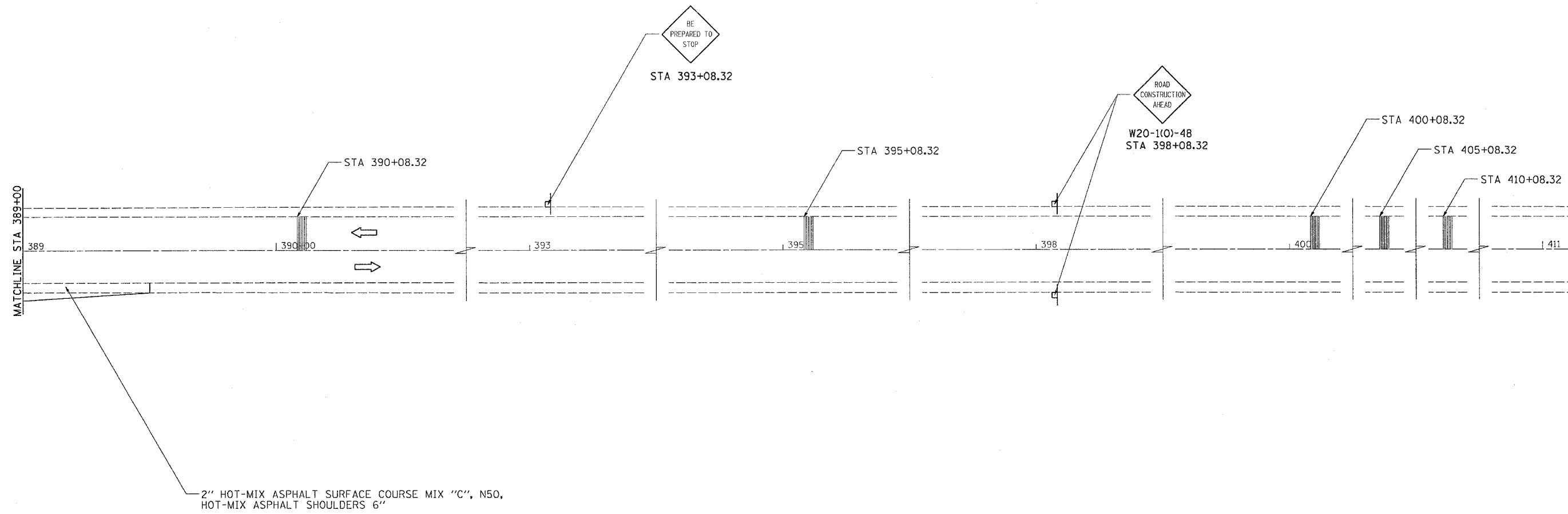
SCALE: VERT.
HORIZ.
DATE

DRAWN BY
CHECKED BY




PLT DATE = Mon Dec 11 09:14:47 2006
FILE NAME = c:\pwork\stephen\211105\11105p1.dgn
USER NAME = rchasej

STAGE I

CONTRACT NO. 64848				
F.A.R. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
30L	21L-1	STEPHENSON	64	21
STA. 389+00		TO STA. 411+00		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		



SEE HIGHWAY STANDARDS 701321-08, & 704001-03 FOR OTHER DEVICES NOT SHOWN

-  TEMPORARY RUMBLE STRIP
-  DRUM WITH STEADY BURNING LIGHT
-  TRAFFIC SIGNAL

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

SCALE: VERT. _____
HORIZ. _____

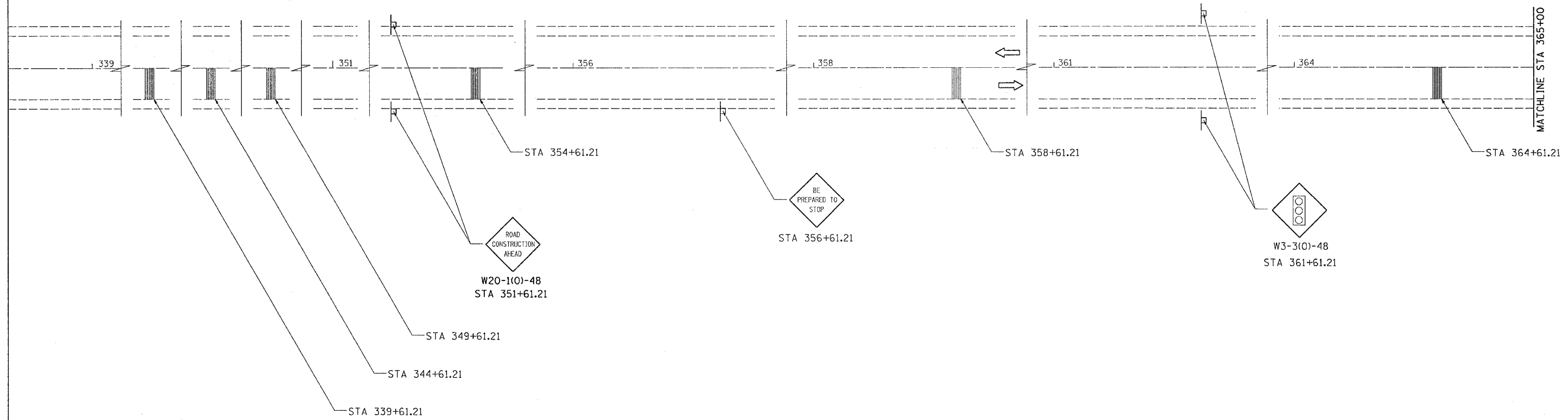
DATE _____

DRAWN BY _____
CHECKED BY _____




PLOT DATE = Tue Jan 16 10:59:15 2007
FILE NAME = c:\projects\211105\11105\11105-1g.dgn
PLOT SCALE = 20.0000' / IN.
USER NAME = rambertj

STAGE II

CONTRACT NO. 64848			
F.A.R. RTE.	SECTION	COUNTY	TOTAL SHEET NO.
301	21T-1	STEPHENSON	64-22
STA. 339+00		TO STA. 365+00	
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT	



SEE HIGHWAY STANDARDS 701321-08, & 704001-03 FOR OTHER DEVICES NOT SHOWN

-  TEMPORARY RUMBLE STRIP
-  DRUM WITH STEADY BURNING LIGHT
-  TRAFFIC SIGNAL

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

SCALE: VERT.
HORIZ.
DATE

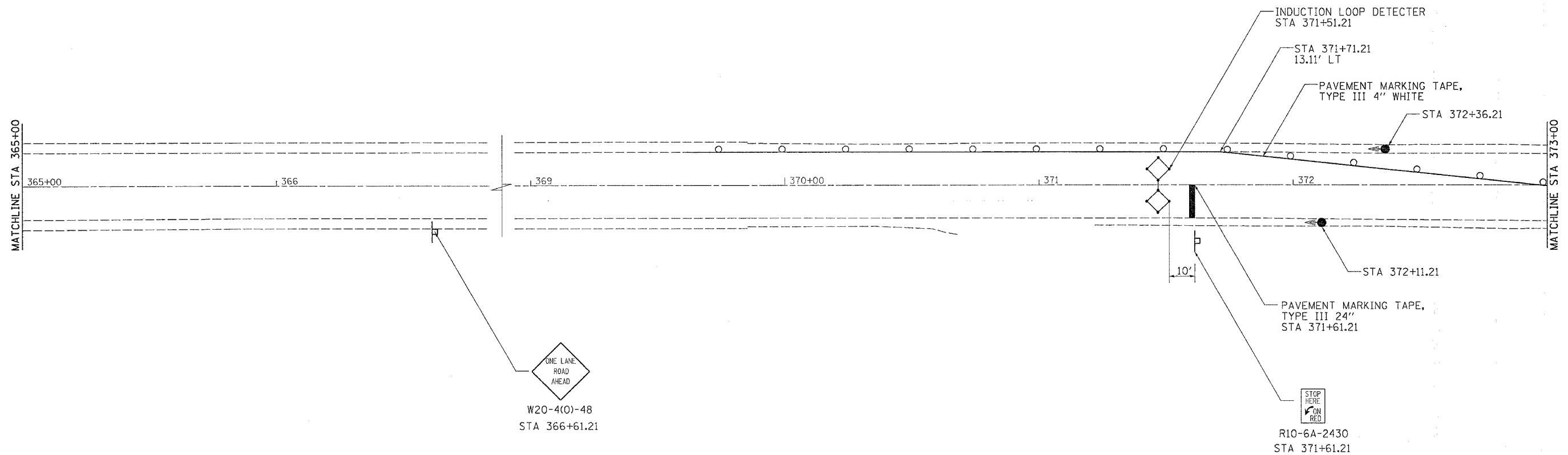
DRAWN BY
CHECKED BY

STAGE II




PLOT DATE = Tue Jan 16 10:59:27 2007
FILE NAME = c:\p\proj\211102\1102\1102.dgn
PLOT SCALE = 20.0000' / IN.
USER NAME = fmkaslj

STAGE II

CONTRACT NO. 64B48				
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
301	21T-1	STEPHENSON	64	23
STA. 366+00		TO STA. 373+00		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



SEE HIGHWAY STANDARDS 701321-08, & 704001-03 FOR OTHER DEVICES NOT SHOWN

-  TEMPORARY RUMBLE STRIP
-  DRUM WITH STEADY BURNING LIGHT
-  TRAFFIC SIGNAL

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

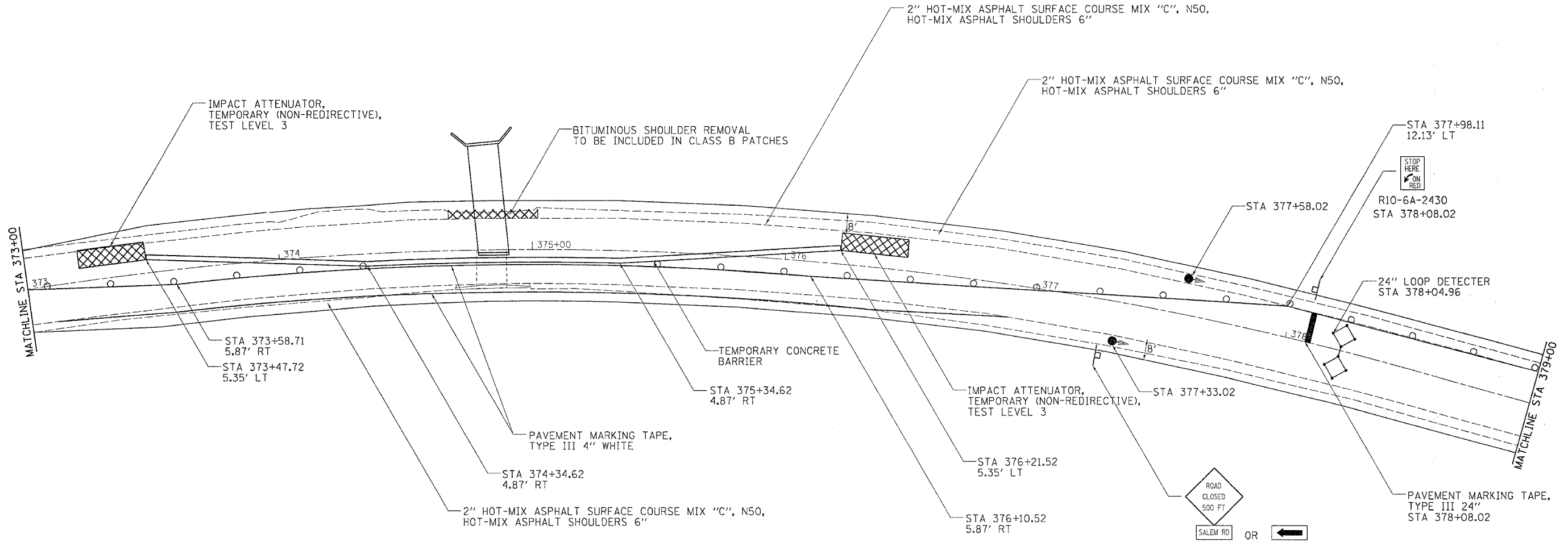
SCALE: VERT. _____
 HORIZ. _____
 DATE _____

DRAWN BY _____
 CHECKED BY _____




PLOT DATE = Mon, Dec 11 @ 9:11:47 2006
 FILE NAME = I:\projects\64b48\stage2.dgn
 PLOT SCALE = 20.0000 / IN.
 USER NAME = rnkheej

STAGE II

CONTRACT NO. 64B48				
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
301	21T-1	STEPHENSON	64	24
STA. 373+00		TO STA. 379+00		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



SEE HIGHWAY STANDARDS 701321-08, & 704001-03 FOR OTHER DEVICES NOT SHOWN

-  TEMPORARY RUMBLE STRIP
-  DRUM WITH STEADY BURNING LIGHT
-  TRAFFIC SIGNAL

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

SCALE: VERT. HORIZ. DATE

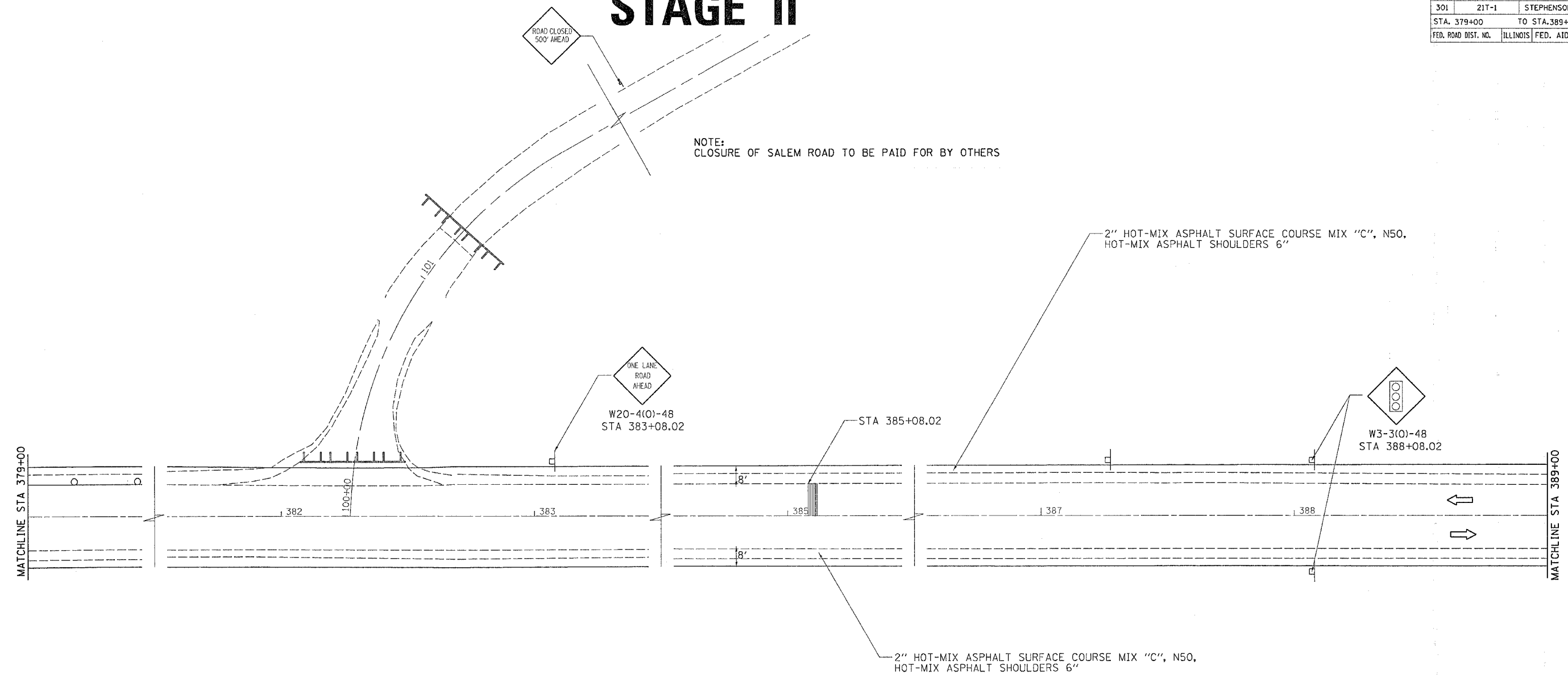
DRAWN BY
CHECKED BY

PLT DATE = Mon, Dec 11 09:11:47 2006
 FILE NAME = I:\11111111\11111111\11111111.dgn
 PLOT SCALE = 28.48888 / IN.
 USER NAME = rnkhsj

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
301	21T-1	STEPHENSON	64	25
STA. 379+00		TO STA. 389+00		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		




STAGE II

NOTE:
CLOSURE OF SALEM ROAD TO BE PAID FOR BY OTHERS



PLOT DATE = Mon Dec 11 09:11:47 2006
 FILE NAME = \\s11105\util\stg\stg.dgn
 PLOT SCALE = 20.0000 / IN.
 USER NAME = renkesj

SEE HIGHWAY STANDARDS 701321-08, & 704001-03 FOR OTHER DEVICES NOT SHOWN

-  TEMPORARY RUMBLE STRIP
-  DRUM WITH STEADY BURNING LIGHT
-  TRAFFIC SIGNAL

REVISIONS	
NAME	DATE

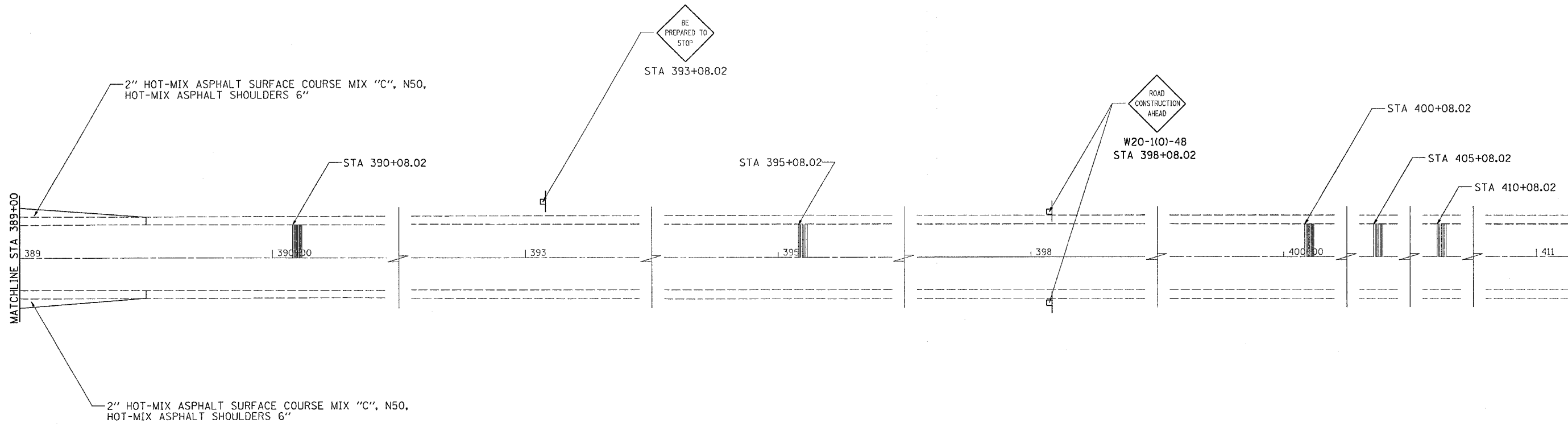
ILLINOIS DEPARTMENT OF TRANSPORTATION

SCALE: VERT. _____
 HORIZ. _____
 DATE _____




DRAWN BY _____
 CHECKED BY _____

STAGE II

CONTRACT NO. 64B48				
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
30L	21I-J	STEPHENSON	64	26
STA. 389+00		TO STA. 411+00		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



SEE HIGHWAY STANDARDS 701321-08, & 704001-03 FOR OTHER DEVICES NOT SHOWN

-  TEMPORARY RUMBLE STRIP
-  DRUM WITH STEADY BURNING LIGHT
-  TRAFFIC SIGNAL

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

SCALE: VERT. _____
 HORIZ. _____

DATE _____

DRAWN BY _____
 CHECKED BY _____

PLOT DATE = Tue Jan 16 10:59:38 2007
 PLOT SCALE = 1" = 20' (0.00017) / IN
 USER NAME = rnkneal

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
301	21T-1	STEPHENSON	64	27
STA. 370+00		TO STA. 376+00		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		
CANADIAN NATIONAL RAILROAD 11-504-001				

HOWARD ILS
10-200-005

2" HOT-MIX ASPHALT SURFACE COURSE MIX "C", N50,
HOT-MIX ASPHALT SHOULDERS, 6"

EXIST. CURVE 210
PI STA. = 375+90.52
 $\Delta = 23^\circ 35' 12''$ (RT)
 $D = 4^\circ 28' 29''$
 $R = 1,280.44'$
 $T = 267.34'$
 $L = 527.11'$
 $E = 27.61'$
 $\theta = \dots$
 $T.R. = \dots$
 $S.E. RUN = \dots$
P.C. STA. = 373+23.18
P.T. STA. = 378+50.29

60' PIPE CULVERTS
CL D, TY 1 EQUIVALENT ROUND-SIZE 15"
2 EA. END SECTIONS EQUIV RND-SIZE 15"

8" AGG BASE CSE, TY B

IMPROVEMENT BEGINS
STA 370+50

EXISTING R.O.W.

3' AGG. SHLD., TYPE B

PROPOSED R.O.W.
CONSTRUCTION LIMITS

STA 373+50

SECTION BEGINS
STA 373+50

50' SHOULDER TAPER

ABANDONED ENTRANCE

TEMP EASE

REMOVAL OF EX
STRUCTURES No. 1

GUARDRAIL
REMOVAL

370+00

371

US RTE 20

372

373

374

375+00

X = TREE REMOVAL

EXISTING R.O.W.

REILING ENTERPRISES
10-400-004

LANDSCAPE
EDGE

STA 373+00

STA 373+50

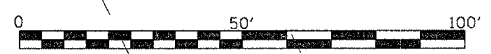
PROPOSED R.O.W.
CONSTRUCTION LIMITS

50' SHOULDER TAPER

STA 374+84.62
84' 12" x 5' CONCRETE BOX CULVERT

HOT-MIX ASPHALT SURFACE
COURSE, MIX "D", N90
3" APPLIED IN TWO LIFTS
CLASS B PATCHES, TYPE IV, 10"

MATCH LINE STA. 376+00

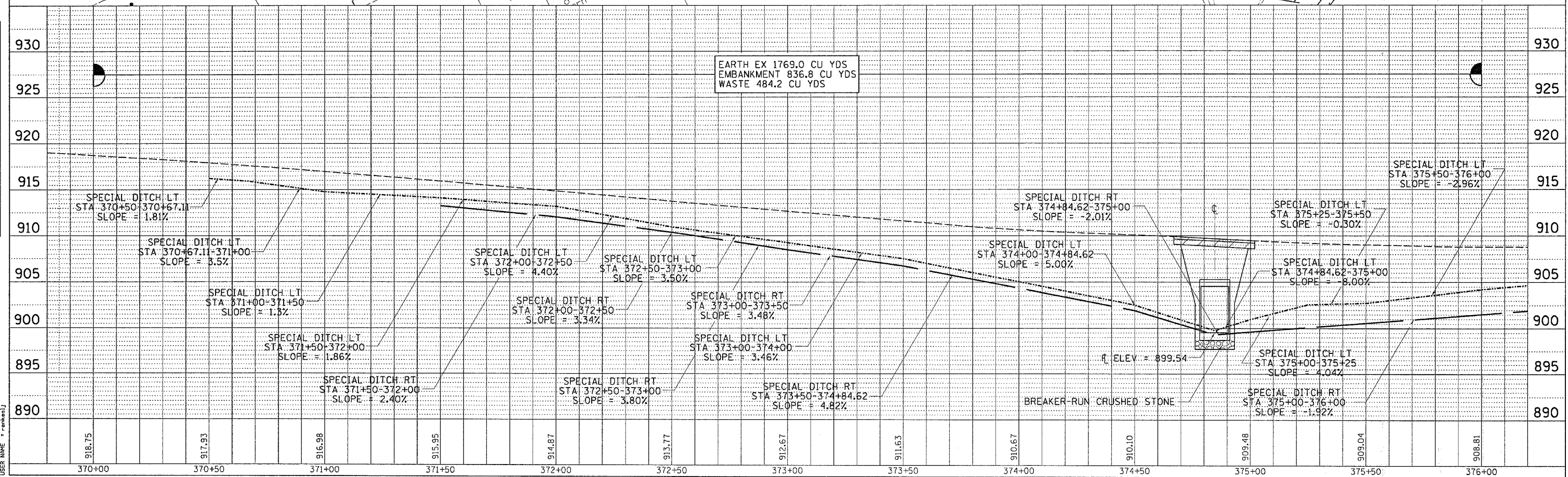


CHARLES WHITE
11-300-009

DATE	
BY	
PLAN	
SURVEYED	
GRADES CHECKED	
ALIGNED CHECKED	
PLD. FILE NAME	
NO.	

DATE	
BY	
PROFILE	
SURVEYED	
GRADES CHECKED	
STRUCTURE NOTATION CHD	
NO.	

PLOT DATE = Mon Dec 11 09:12:23 2006
FILE NAME = s:\envs\mst\1105\1105\1105p1.dgn
USER NAME = j...
USER NAME = j...



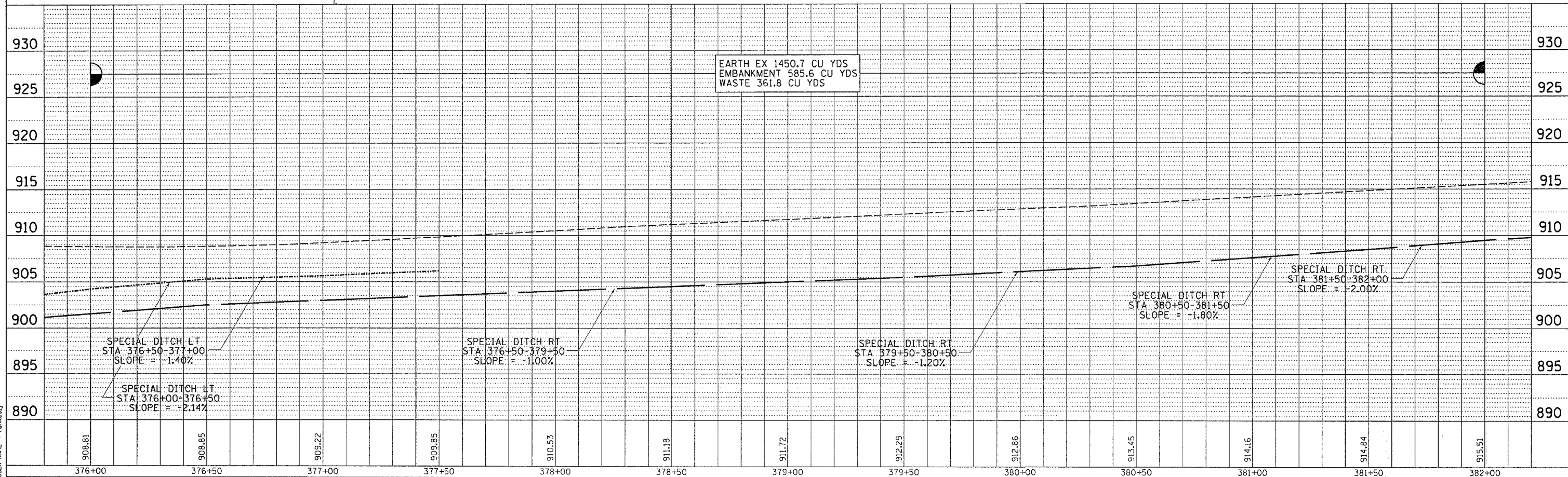
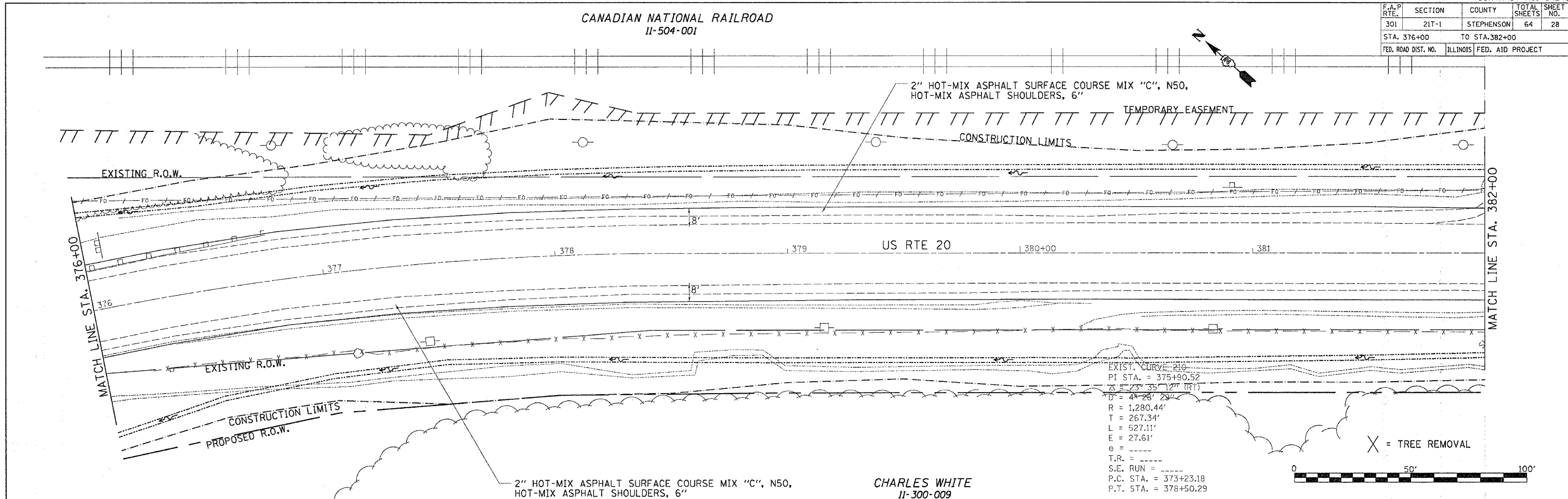
CANADIAN NATIONAL RAILROAD
II-504-001

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
301	21T-1	STEPHENSON	64	28
STA. 376+00		TO STA. 382+00		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

PLAN	DATE
DESIGNED	
PLOTTED	
CHECKED	
NOTE BOOK NO.	
FILE NAME	

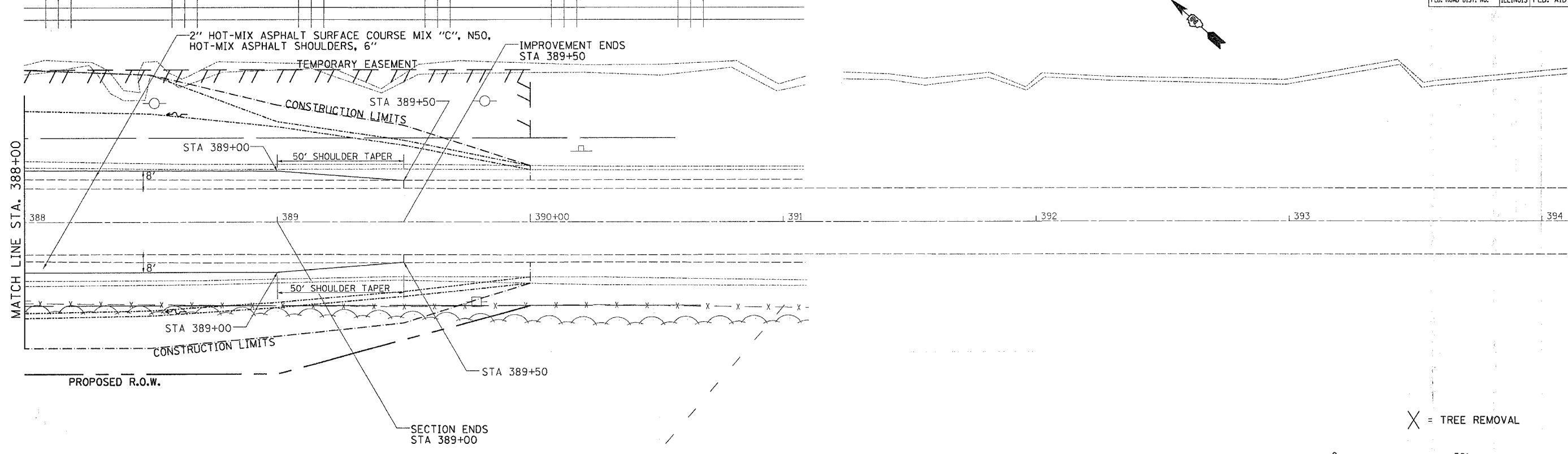
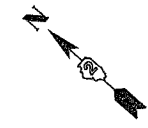
PROFILE	DATE
DESIGNED	
PLOTTED	
CHECKED	
NOTE BOOK NO.	
FILE NAME	

PLOT DATE = Mon Dec 11 09:12:53 2006
FILE NAME = 28.0000 / in.
USER NAME = reneal

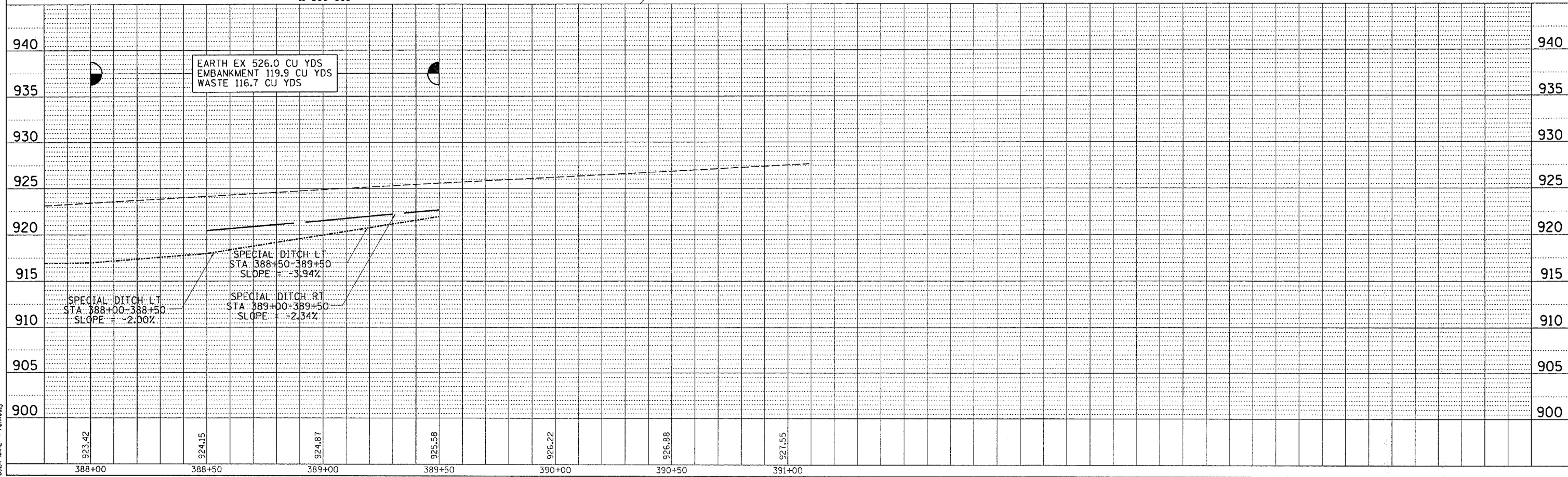


F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
301	21T-1	STEPHENSON	64	30
STA. 388+00		TO STA. 394+00		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

CANADIAN NATIONAL RAILROAD
11-504-001



CHARLES WHITE
11-300-009



PLAN

DATE	
BY	
DESIGNED	
CHECKED	
PLANNED	
NOTED	
FILED	
NO.	

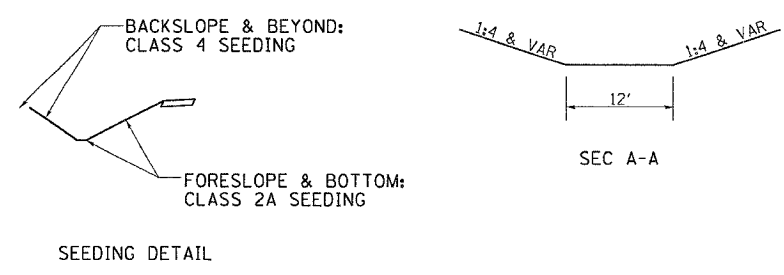
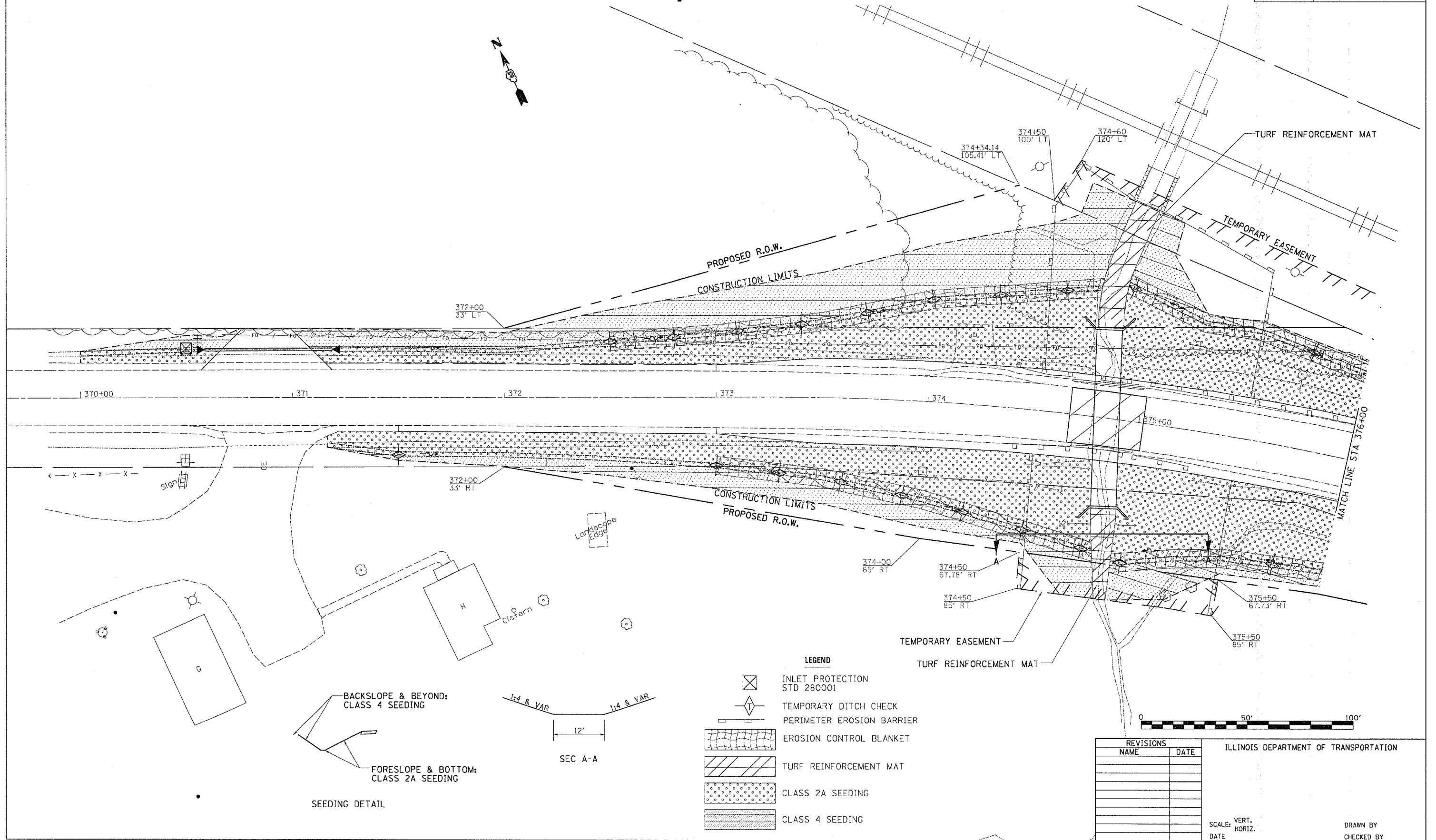
PROFILE

DATE	
BY	
DESIGNED	
CHECKED	
PLANNED	
NOTED	
FILED	
NO.	

PLOT DATE = Mon Dec 11 09:51:54 2006
FILE NAME = 202009 / 21T109
USER NAME = rnkcalj

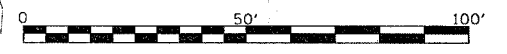
R.O.W. & EASEMENT, EROSION CONTROL

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
301	21T-1	STEPHENSON	64	32
STA. 370+00		TO STA. 376+00		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		



LEGEND

- INLET PROTECTION STD 280001
- TEMPORARY DITCH CHECK
- PERIMETER EROSION BARRIER
- EROSION CONTROL BLANKET
- TURF REINFORCEMENT MAT
- CLASS 2A SEEDING
- CLASS 4 SEEDING



REVISIONS		ILLINOIS DEPARTMENT OF TRANSPORTATION
NAME	DATE	
		SCALE: VERT. HORIZ. DATE

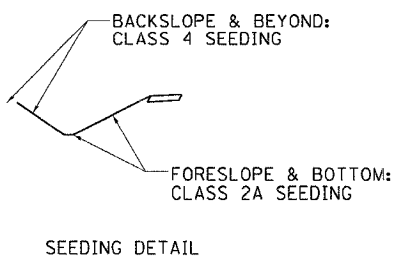
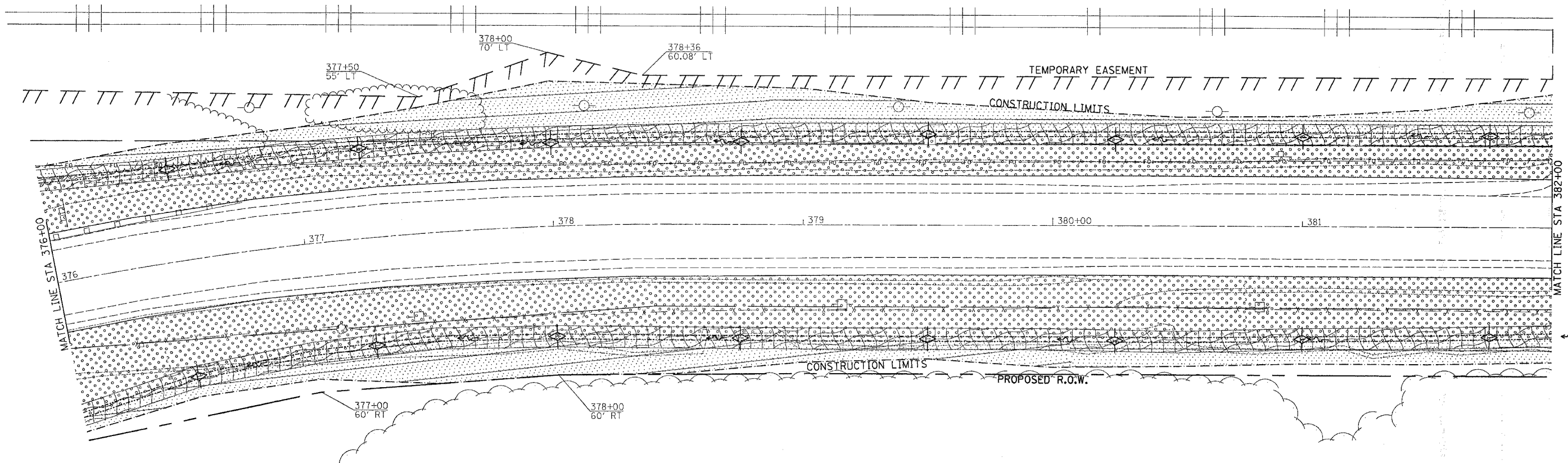
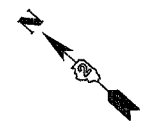
DRAWN BY _____
CHECKED BY _____

PLOT DATE = Mon, Dec 11, 2006 11:09:25 AM
 FILE NAME = c:\p\projects\6421105\01105a.dgn
 PLOT SCALE = 20.0000' / IN.
 USER NAME = mkenstl

R.O.W. & EASEMENT, EROSION CONTROL

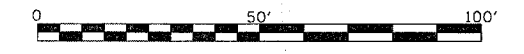
CONTRACT NO. 64B48

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
301	21T-1	STEPHENSON	64	33
STA. 376+00		TO STA. 382+00		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		



LEGEND

- INLET PROTECTION
STD 280001
- TEMPORARY DITCH CHECK
- PERIMETER EROSION BARRIER
- EROSION CONTROL BLANKET
- TURF REINFORCEMENT MAT
- CLASS 2A SEEDING
- CLASS 4 SEEDING



REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

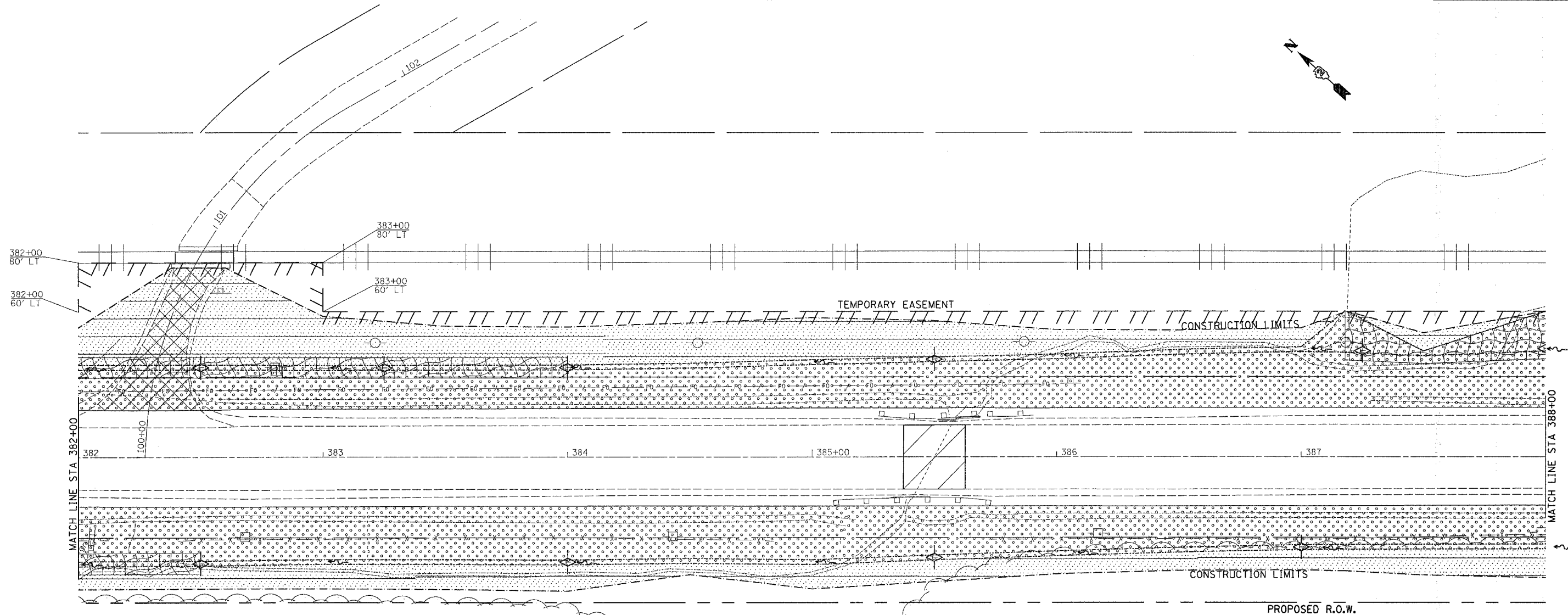
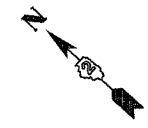
SCALE: VERT.
HORIZ.
DATE

DRAWN BY
CHECKED BY



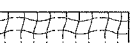
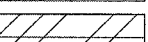
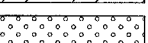
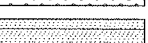
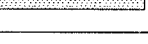
PLOT DATE = Mon, Dec 11 09:52:56 2006
 PLOT SCALE = 20,000 / IN.
 USER NAME = rethorj

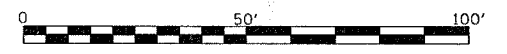
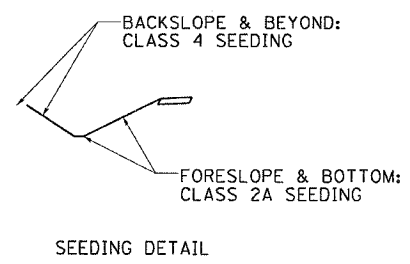
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
301	21T-1	STEPHENSON	64	34
STA. 382+00		TO STA. 388+00		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

R.O.W. & EASEMENT, EROSION CONTROL



LEGEND

-  INLET PROTECTION
STD 280001
-  TEMPORARY DITCH CHECK
-  PERIMETER EROSION BARRIER
-  EROSION CONTROL BLANKET
-  TURF REINFORCEMENT MAT
-  CLASS 2A SEEDING
-  CLASS 4 SEEDING



REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

SCALE: VERT.
HORIZ.
DATE

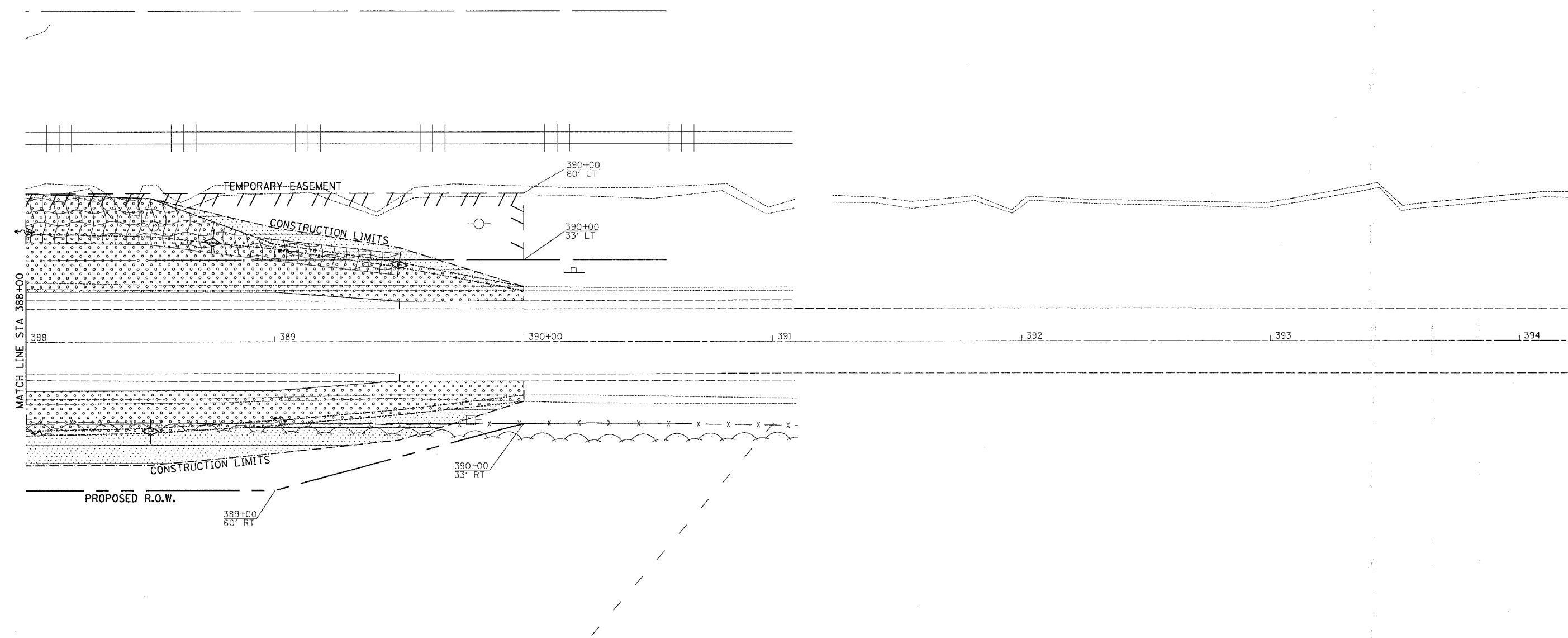
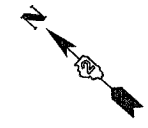
DRAWN BY
CHECKED BY

R.O.W. & EASEMENT, EROSION CONTROL

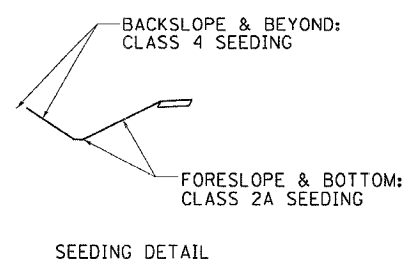
PLOT DATE = Nov Dec 11 89 12:58 2085
 FILE NAME = c:\p\projects\p21105-d11182a-dgn
 PLOT SCALE = 28.0000 / IN.
 USER NAME = renkaej

R.O.W. & EASEMENT, EROSION CONTROL

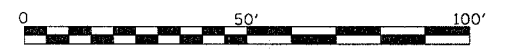
CONTRACT NO. 64B48				
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
301	21T-1	STEPHENSON	64	35
STA. 388+00		TO STA. 394+00		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



MATCH LINE STA 388+00



- LEGEND**
- INLET PROTECTION STD 280001
 - TEMPORARY DITCH CHECK
 - PERIMETER EROSION BARRIER
 - EROSION CONTROL BLANKET
 - TURF REINFORCEMENT MAT
 - CLASS 2A SEEDING
 - CLASS 4 SEEDING



REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

SCALE: VERT. _____
HORIZ. _____

DATE _____


DRAWN BY _____
CHECKED BY _____

PLOT DATE = Mon, Dec 11, 2001 10:00:28 AM
 FILE NAME = c:\p\projects\6211195\011108\er.dgn
 PLOT SCALE = 28.0000" / 1" IN.
 USER NAME = rnkensl

R.O.W. & EASEMENT, EROSION CONTROL

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
301	217-1	STEPHENSON	64	36
STA. TO STA.				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

BORING LOGS



Illinois Department of Transportation
Division of Highways
1007

SOIL BORING LOG

Page 1 of 1

Date 11/20/06

ROUTE US 20 DESCRIPTION P-92-111-05 Box Culvert, 0.9 m. S.E. of Galena Road on US 20 LOGGED BY J. Strating

SECTION _____ LOCATION Erin Twp. - 10NE, SEC. 7, TWP. 27N, RNG. 6E

COUNTY Stephenson DRILLING METHOD Hollow Stem Auger HAMMER TYPE CME-45 Automatic

STRUCT. NO. _____	D	B	U	M	Surface Water Elev. <u>92.0</u> ft
Station <u>589+76</u>	E	L	C	O	Stream Bed Elev. <u>91.0</u> ft
	P	O	S	I	
BORING NO. <u>B-1</u>	T	W	S	Q	Groundwater Elev. _____
Station <u>375+02.62</u>	H	S	Qu	T	First Encounter <u>Dry</u> ft
Offset <u>11.00ft Lt CL</u>					Upon Completion <u>Dry</u> ft
Ground Surface Elev. <u>100.0</u> ft	(ft)	(6")	(tsf)	(%)	After _____ Hrs. _____ ft

Asphalt Widening

MEDIUM brown SILTY CLAY LOAM

MEDIUM brown SILTY LOAM

STIFF graybrown SILTY CLAY LOAM (tan/gray LIMESTONE at bottom 3")


VERY DENSE tan/gray weathered LIMESTONE

Auger Refusal

End of Boring

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)

BBS, from 137 (Rev. 8-99)



Illinois Department of Transportation
Division of Highways
1007

SOIL BORING LOG

Page 1 of 1

Date 11/20/06

ROUTE US 20 DESCRIPTION P-92-111-05 Box Culvert, 0.9 m. S.E. of Galena Road on US 20 LOGGED BY J. Strating

SECTION _____ LOCATION Erin Twp. - 10NE, SEC. 7, TWP. 27N, RNG. 6E

COUNTY Stephenson DRILLING METHOD Hollow Stem Auger HAMMER TYPE CME-45 Automatic

STRUCT. NO. _____	D	B	U	M	Surface Water Elev. <u>92.0</u> ft
Station <u>374+59.62</u>	E	L	C	O	Stream Bed Elev. <u>91.0</u> ft
	P	O	S	I	
BORING NO. <u>B-2</u>	T	W	S	Q	Groundwater Elev. _____
Station <u>589+50</u>	H	S	Qu	T	First Encounter <u>90.0</u> ft
Offset <u>11.00ft Rt CL</u>					Upon Completion <u>85.5</u> ft
Ground Surface Elev. <u>99.5</u> ft	(ft)	(6")	(tsf)	(%)	After _____ Hrs. _____ ft

Asphalt Widening

MEDIUM brown SILTY CLAY LOAM

STIFF brown SILTY CLAY LOAM

MEDIUM brown SILTY CLAY LOAM

MEDIUM brown SILTY LOAM with LIMESTONE fragments

STIFF gray/blue CLAY with ORGANICS

VERY STIFF brown CLAY with LIMESTONE fragments

VERY STIFF tan/brown CLAY with SAND lenses

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)

BBS, from 137 (Rev. 8-99)

PLOT DATE = Tue Mar 13 11:46:55 2007
 FILE NAME = c:\p\projects\211105.d\1105106a.dgn
 PLOT SCALE = 1/2"=1'-0"
 USER NAME = jstrating

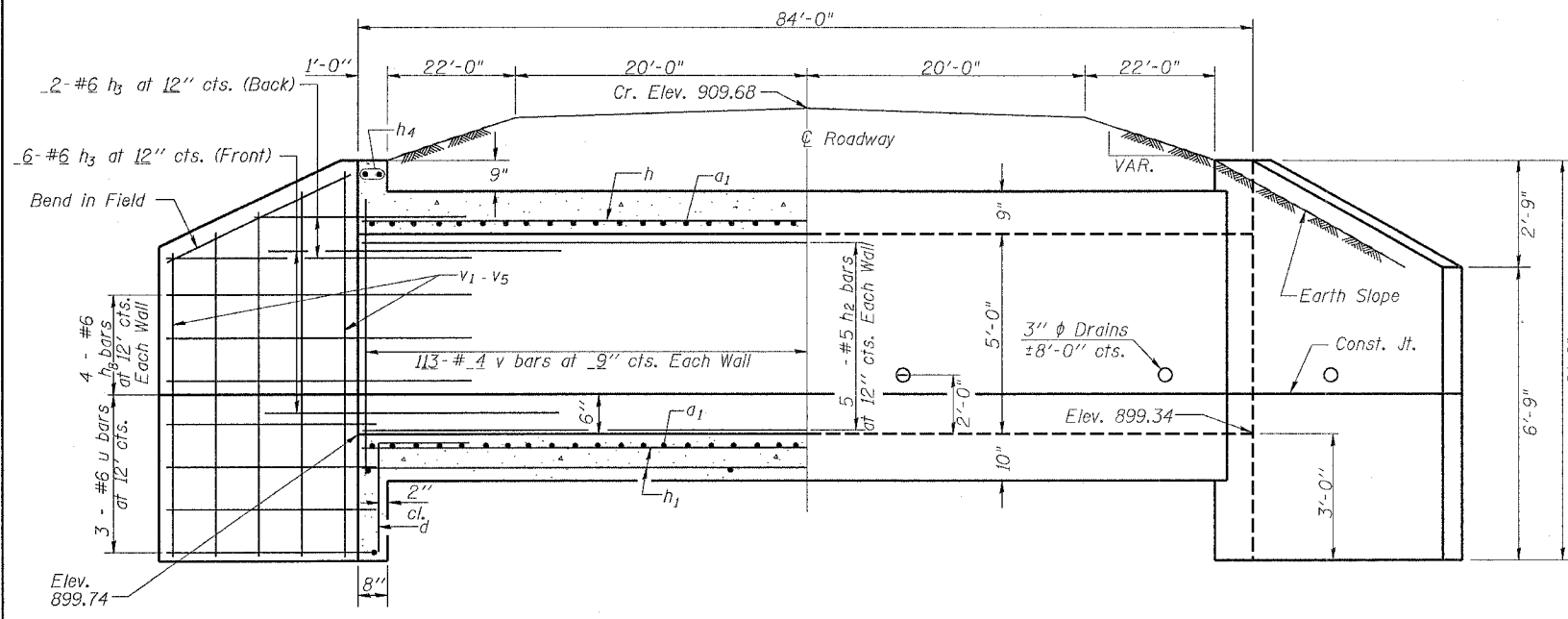
REVISIONS		ILLINOIS DEPARTMENT OF TRANSPORTATION
NAME	DATE	
		SCALE: VERT. _____ HORIZ. _____ DATE _____

DRAWN BY _____
CHECKED BY _____

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

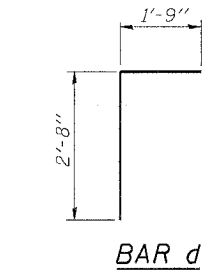
ROUTE NO.	SECTION	COUNTY	DATE	SHEET NO.
301	217-1	STEPHENSON	64	37
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT-		

Contract # 64B4B

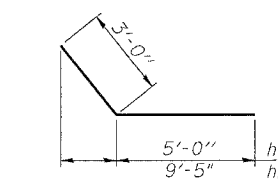


HALF LONG SECTION

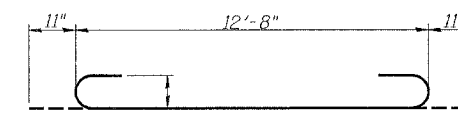
HALF ELEVATION



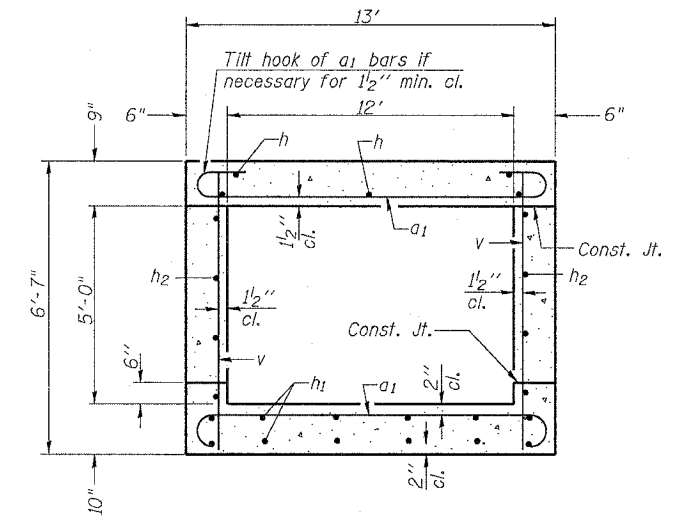
BAR d



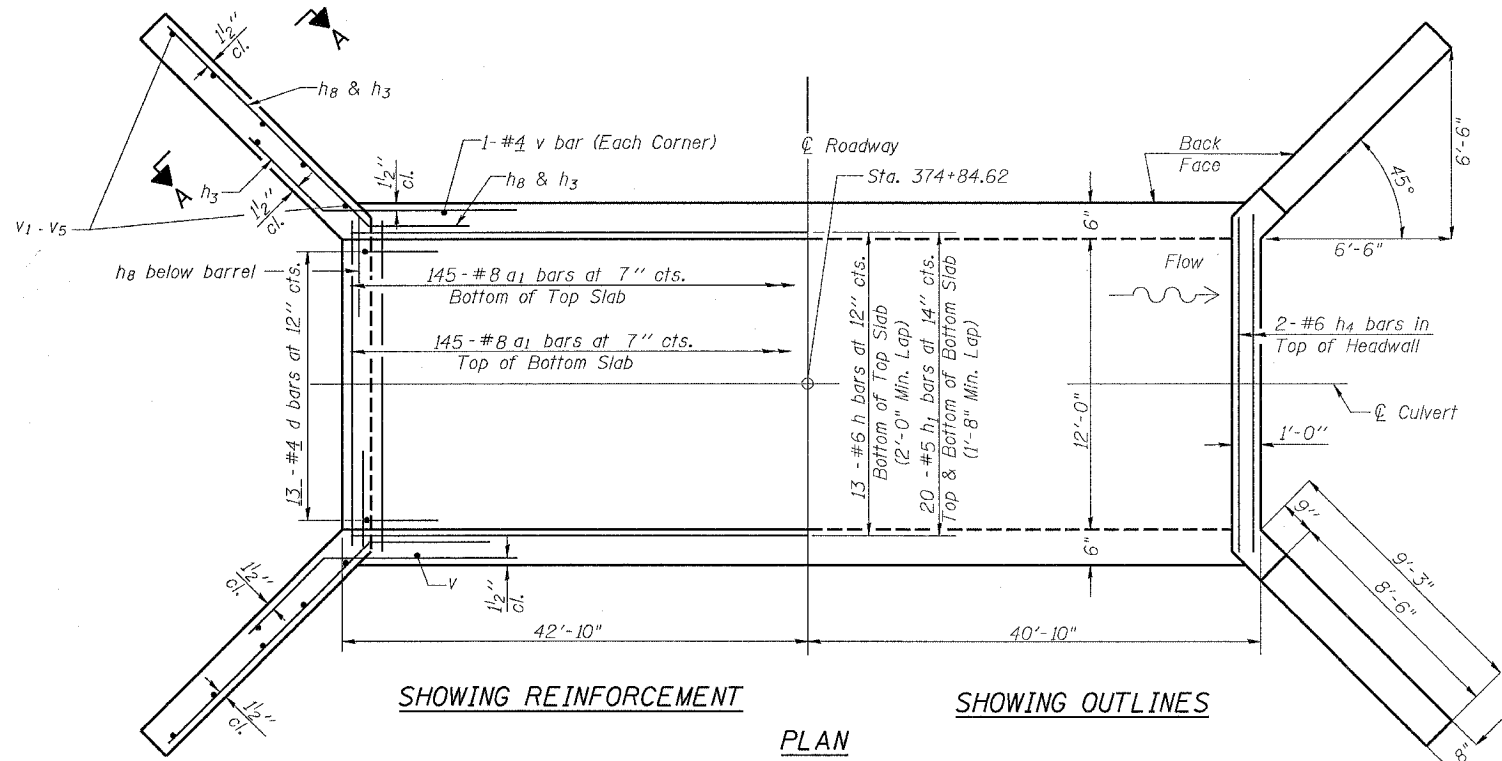
BARS h3 & h8



BAR a1



SECTION THRU BARREL



SHOWING REINFORCEMENT

SHOWING OUTLINES

PLAN

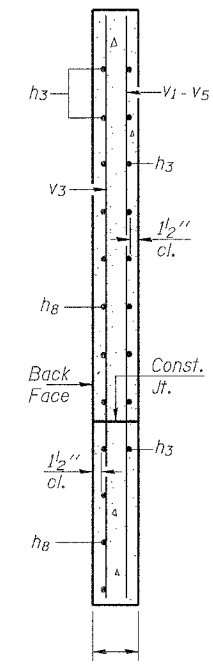
NOTES

A distance of half the length of the wingwall but not less than six feet of the barrel shall be poured monolithically with the wingwalls.
Reinforcement Bars shall conform to the requirements of AASHTO M-31, M-42 or M-53, Grade 60.
Bars indicated thus 12 x 4-#5 etc. indicates 12 lines of bars with 4 lengths per line.
All construction joints shall be bonded.
Design fill height = 6.5'
Bar splicers shall be installed at the staging line as shown on sheets 15 & 16

DESIGNED - TRACI HELFRICH	2006
CHECKED -	EXAMINED
DRAWN -	PASSED
CHECKED -	ENGINEER OF BRIDGES AND STRUCTURES

BILL OF MATERIAL

Bar	No.	Size	Length	Shape
a1	290	#8	14'-6"	U
d	13	#4	4'-6"	U
h (Stage I)	13	#6	40'-10"	—
h1 (Stage I)	22	#5	40'-10"	—
h2 (Stage I)	10	#5	40'-10"	—
h (Stage II)	13	#6	42'-10"	—
h1 (Stage II)	22	#5	42'-10"	—
h2 (Stage II)	10	#5	42'-10"	—
h3	16	#6	8'-0"	—
h4	14	#6	3'-6"	—
h5	4	#6	5'-10 1/3"	—
h8	12	#6	12'-5"	—
u	3	#6	31'-6 2/32"	U
v	226	#4	6'-2"	—
v1	4	#4	6'-5 3/4"	—
v2	4	#4	7'-2 5/8"	—
v3	8	#4	7'-11 3/8"	—
v4	4	#4	8'-10 9/16"	—
v5	4	#4	9'-2 3/32"	—
Concrete Box Culverts			Cu. Yd.	86.1
Reinforcement Bars			Pound	17418.7
Name Plate			Each	1



SECTION THRU HEADWALL
(Up Stream End Only)

DESIGN STRESSES

fy = 60,000 psi
f'c = 3,500 psi

LOADING HS 20-44 & ALT.

SECTION A-A

PLOT DATE = Wed Jan 17 14:44:02 2007
FILE NAME = c:\p20\mca\211105\1105\1105.dgn
PLOT SCALE = 4.000000 / IN.
USER NAME = dztzler

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	SHEET NO.	SHEET TOTAL
301	2IT-1	STEPHENSON	64	37A
FED. ROAD DIST. NO. 7		ILLINOIS	FED. AID PROJECT-	

Contract # 64B48

NOTES

Bar splicer assemblies shall be of an approved type and shall develop in tension at least 125 percent of the yield strength of the lapped reinforcement bars.
Splicer rods shall be of minimum 60 ksi yield strength, threaded or coiled full length.
All reinforcement bars shall be lapped and tied to the splicer rods or dowel bars.
Bar splicer assemblies shall be epoxy coated according to the requirements for reinforcement bars.
Other systems of similar design may be submitted to the Engineer for approval. Approval shall be based on certified test results from an approved testing laboratory that the proposed bar splicer assembly satisfies the following requirements:

- ① Minimum Capacity (Tension in kips) = $1.25 \times f_y \times A_t$
- ② Minimum *Pull-out Strength (Tension in kips) = $0.66 \times f_y \times A_t$

Where f_y = Yield strength of lapped reinforcement bars in ksi.
 A_t = Tensile stress area of lapped reinforcement bars.
* = 28 day concrete

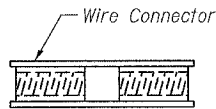
The diameter of this part is the same as the diameter of the bar spliced.

The diameter of this part is equal or larger than the diameter of bar spliced.

ROLLED THREAD DOWEL BAR



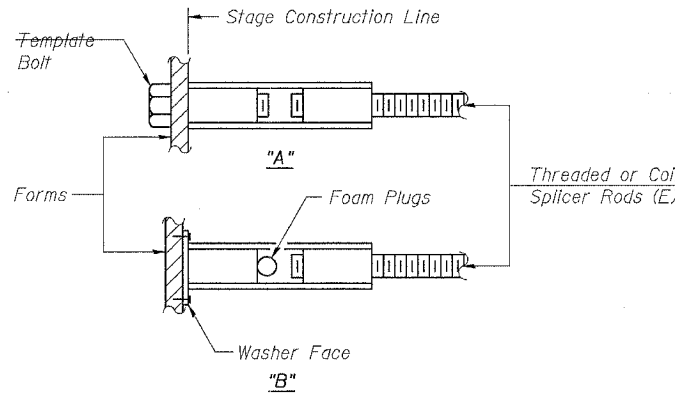
**** ONE PIECE**



WELDED SECTIONS

BAR SPLICER ASSEMBLY ALTERNATIVES

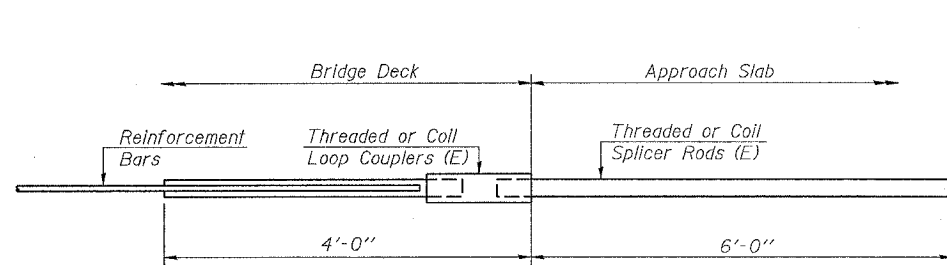
** Heavy Hex Nuts conforming to ASTM A 563, Grade C, D or DH may be used.



INSTALLATION AND SETTING METHODS

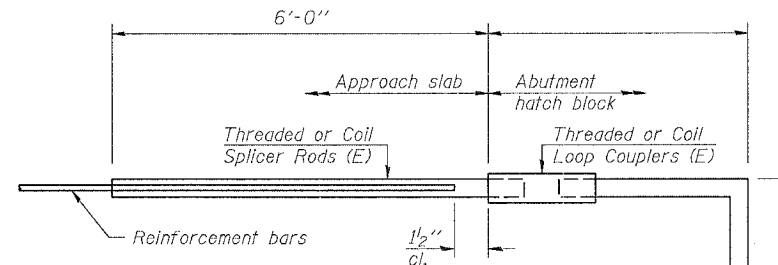
"A" : Set bar splicer assembly by means of a template bolt.
"B" : Set bar splicer assembly by nailing to wood forms or cementing to steel forms.
(E) : Indicates epoxy coating.

BAR SPLICER ASSEMBLIES			
Bar Size to be Spliced	Splicer Rod or Dowel Bar Length	Strength Requirements	
		Min. Capacity kips - tension	Min. Pull-Out Strength kips - tension
#4	1'-8"	14.7	7.9
#5	2'-0"	23.0	12.3
#6	2'-7"	33.1	17.4
#7	3'-5"	45.1	23.8
#8	4'-6"	58.9	31.3
#9	5'-9"	75.0	39.6
#10	7'-3"	95.0	50.3
#11	9'-0"	117.4	61.8



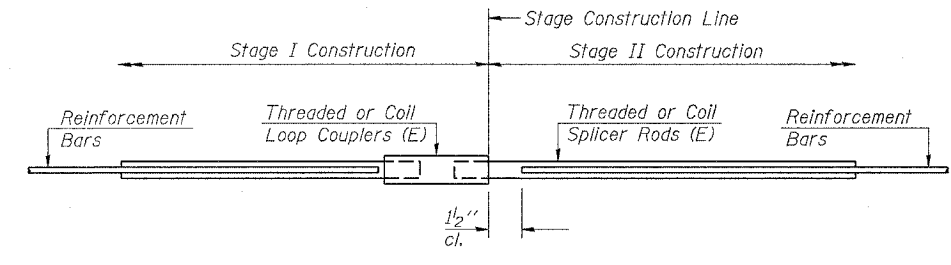
FOR INTEGRAL OR SEMI-INTEGRAL ABUTMENTS

Bar Splicer for #5 bar
Min. Capacity = 23.0 kips - tension
Min. Pull-out Strength = 12.3 kips - tension
No. Required =



FOR STUB ABUTMENTS

Bar Splicer for #5 bar
Min. Capacity = 23.0 kips - tension
Min. Pull-out Strength = 12.3 kips - tension
No. Required =



STANDARD

Bar Size	No. Assemblies Required	Location
#6	13	Stage Line - Sta 374+84.61
#5	32	Stage Line - Sta 374+84.61

BAR SPLICER ASSEMBLY DETAILS

PLOT DATE = Wed Jan 17 14:44:08 2007
FILE NAME = c:\p2\c0\64B48\211\B5_0111285.dwg
PLOT SCALE = 4.8698 / IN
USER NAME = dntzler

DESIGNED -	
CHECKED -	
DRAWN -	
CHECKED -	

	200
EXAMINED	
PASSED	

F.A. PROJECT	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
301	21T-1	STEPHENSON	64	38
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	

HOT-MIX ASPHALT SHOULDER

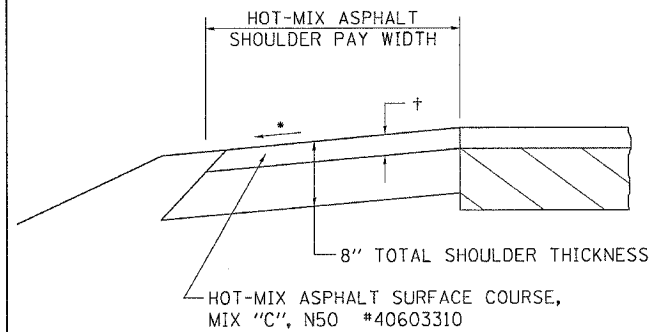
GENERAL NOTES

THE HOT-MIX ASPHALT SHOULDER SHALL BE CONSTRUCTED IN ACCORDANCE WITH SECTION 482 EXCEPT THE TOP LIFT SHALL BE HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N50 #40603310. THE WORK WILL BE PAID FOR AT THE CONTRACT UNIT PRICE PER TON FOR HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N50 #40603310 AND SQUARE YARD FOR HOT-MIX ASPHALT SHOULDERS OF THE THICKNESS SPECIFIED.

USE HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N50 #40603310. WHEN RESURFACING EXISTING HOT-MIX ASPHALT SHOULDERS. THE THICKNESS IS SHOWN ON THE TYPICAL SECTIONS. THIS WORK WILL BE PAID FOR AT THE CONTRACT UNIT PRICE PER TON FOR HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N50 #40603310.

REMOVAL OF MATERIAL FOR PLACEMENT OF THE HOT-MIX ASPHALT SHOULDER TO BE PAID FOR IN UNITS FOR EXCAVATING AND GRADING EXISTING SHOULDERS OR IN CUBIC YARDS FOR EARTH EXCAVATION OR EARTH EXCAVATION WIDENING.

* 4% WHEN MAINLINE IS ON TANGENT. FOR CROSS SLOPE ON SUPERELEVATION SECTION, SEE HIGHWAY STANDARD 482001 OR 482006.



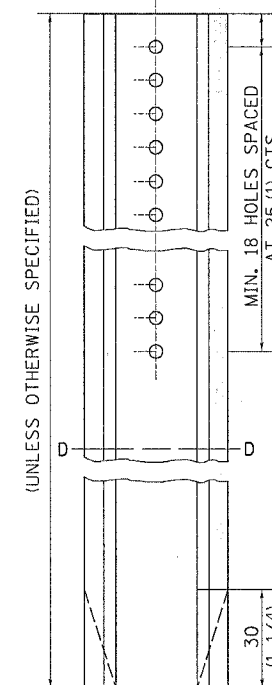
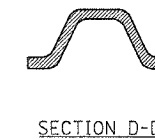
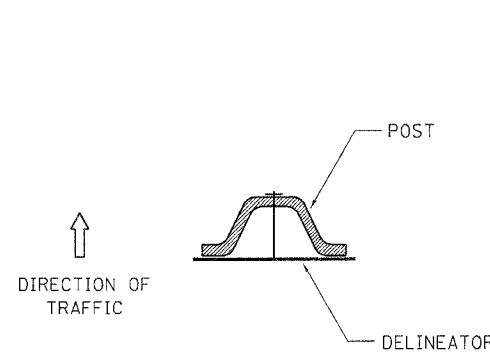
† = SEE TYPICAL SECTIONS FOR THICKNESS

ALL DIMENSIONS ARE IN MILLIMETERS (INCHES) UNLESS OTHERWISE NOTED.

HOT-MIX ASPHALT SHOULDER 23.4a

REVISED 10-06-06

DELINEATOR AND POST ORIENTATION



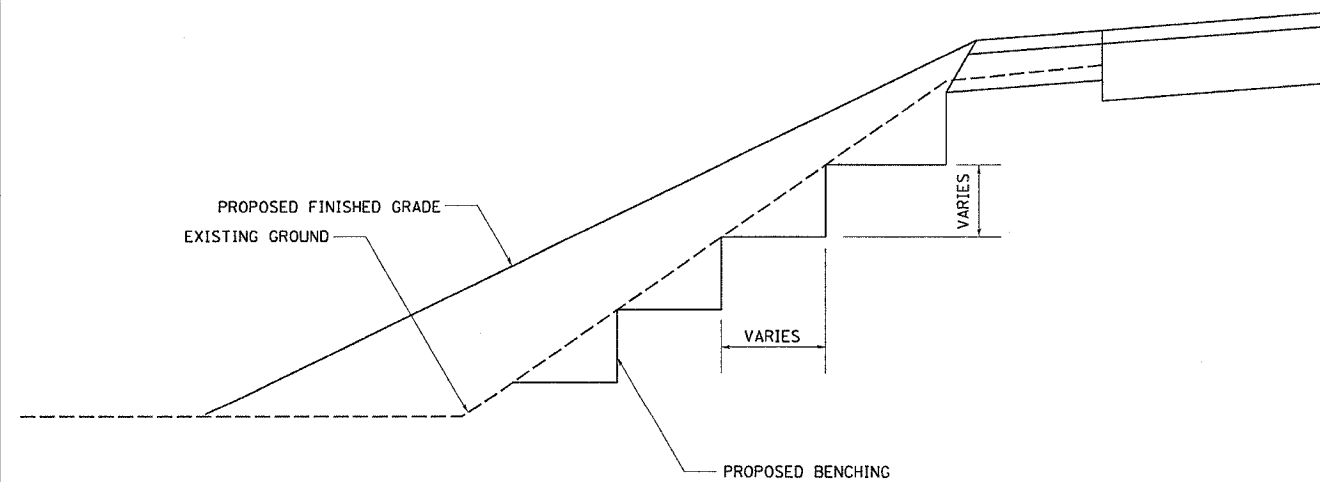
DELINEATORS SHALL BE INSTALLED ACCORDING TO STANDARD 635001 EXCEPT THAT THE POST SHALL BE ROTATED 180°. THE POST WILL HAVE THE WIDE SIDE FACING TRAFFIC AND THE DELINEATOR ATTACHED AS SHOWN ABOVE.

ALL DIMENSIONS ARE IN MILLIMETERS (INCHES) UNLESS OTHERWISE NOTED.

DELINEATOR AND POST ORIENTATION 37.4

REVISED 1-31-00

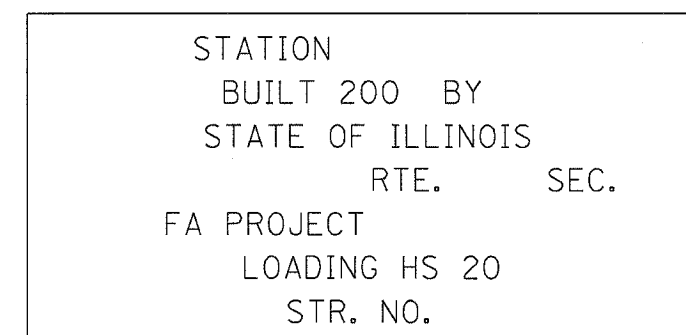
TYPICAL BENCHING ON EXISTING EMBANKMENT



TYPICAL BENCHING ON EXISTING EMBANKMENT 50.4

REVISED 2-22-06

LETTERING FOR NAME PLATE



SEE STD. 515001

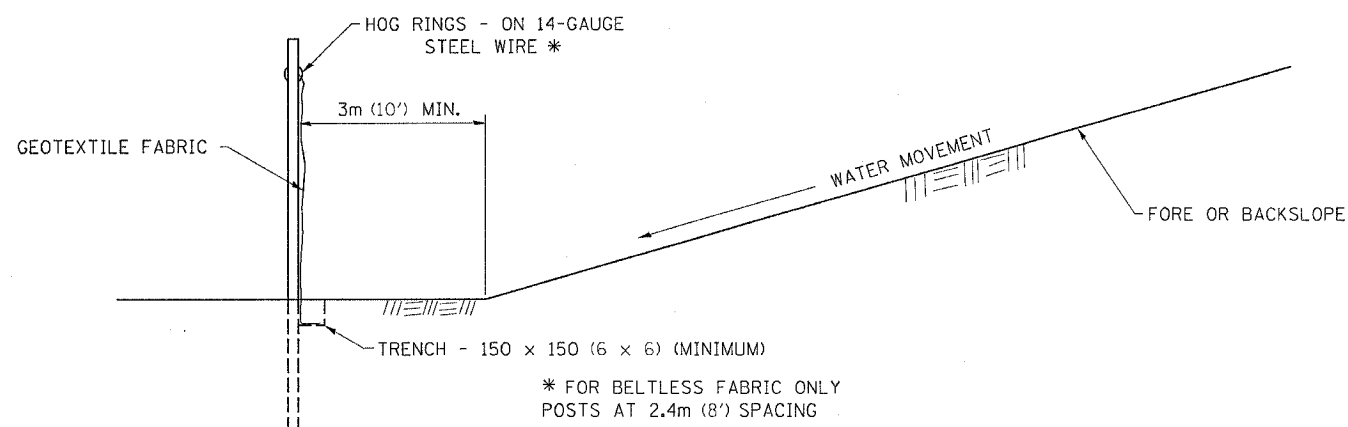
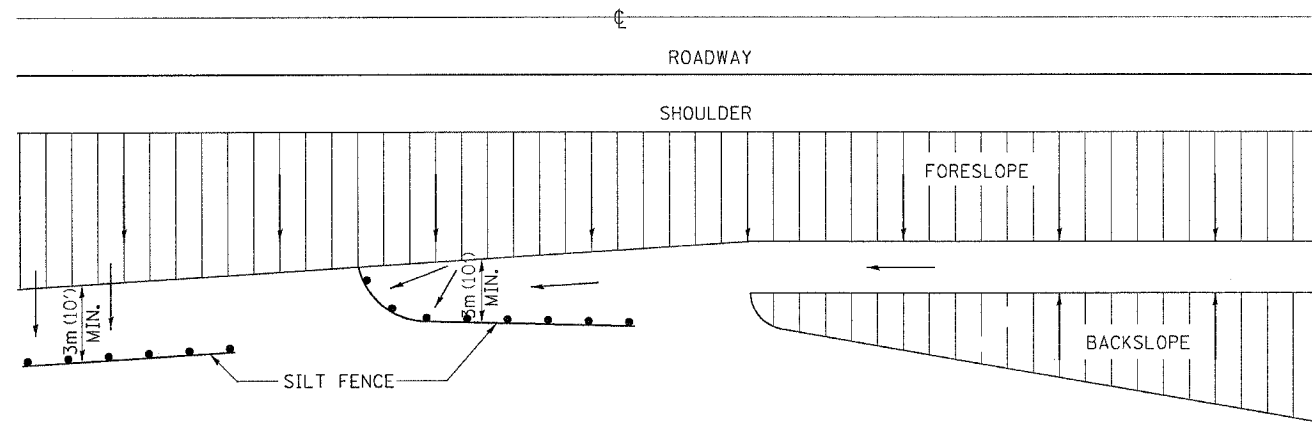
ALL DIMENSIONS ARE IN MILLIMETERS (INCHES) UNLESS OTHERWISE NOTED.

LETTERING FOR NAME PLATE 89.4

REVISED 10-15-04

PLOT DATE = Mon, Dec 11 09:14:18 2006
 FILE NAME = c:\p\projects\211185\ad11185pl.dgn
 PLOT SCALE = 50.0000 / 1 IN.
 REFERENCE = SHEET

EROSION CONTROL DETAILS FOR SILT FENCE



DETAILS OF SILT FENCE

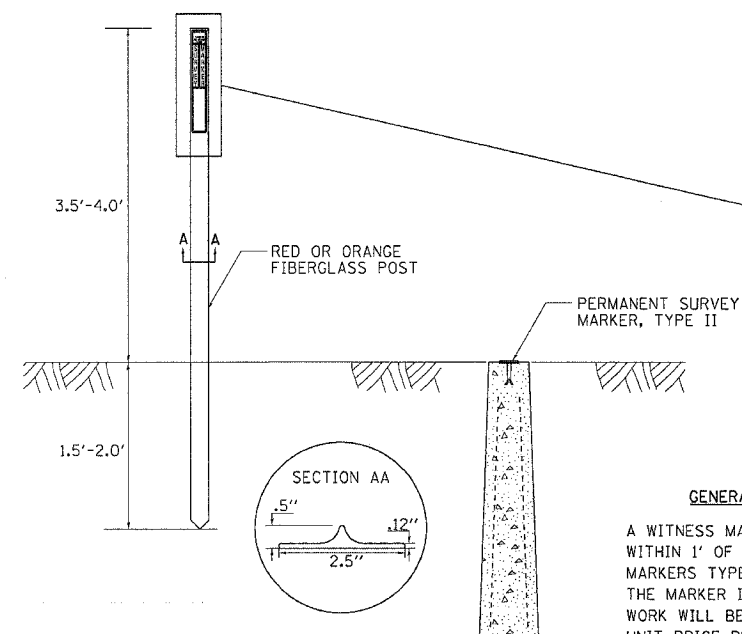
* FOR BELTLESS FABRIC ONLY
POSTS AT 2.4m (8') SPACING

ALL DIMENSIONS ARE IN MILLIMETERS (INCHES) UNLESS OTHERWISE NOTED.

PLOT DATE = Mon Dec 11 09:44:18 2006
FILE NAME = c:\p\mess\c211105\dl1105pl.dgn
SCALE = 1/8" = 1'-0"
REFERENCE = BRFS*

WITNESS MARKER FOR PERMANENT SURVEY MARKERS, TYPE II

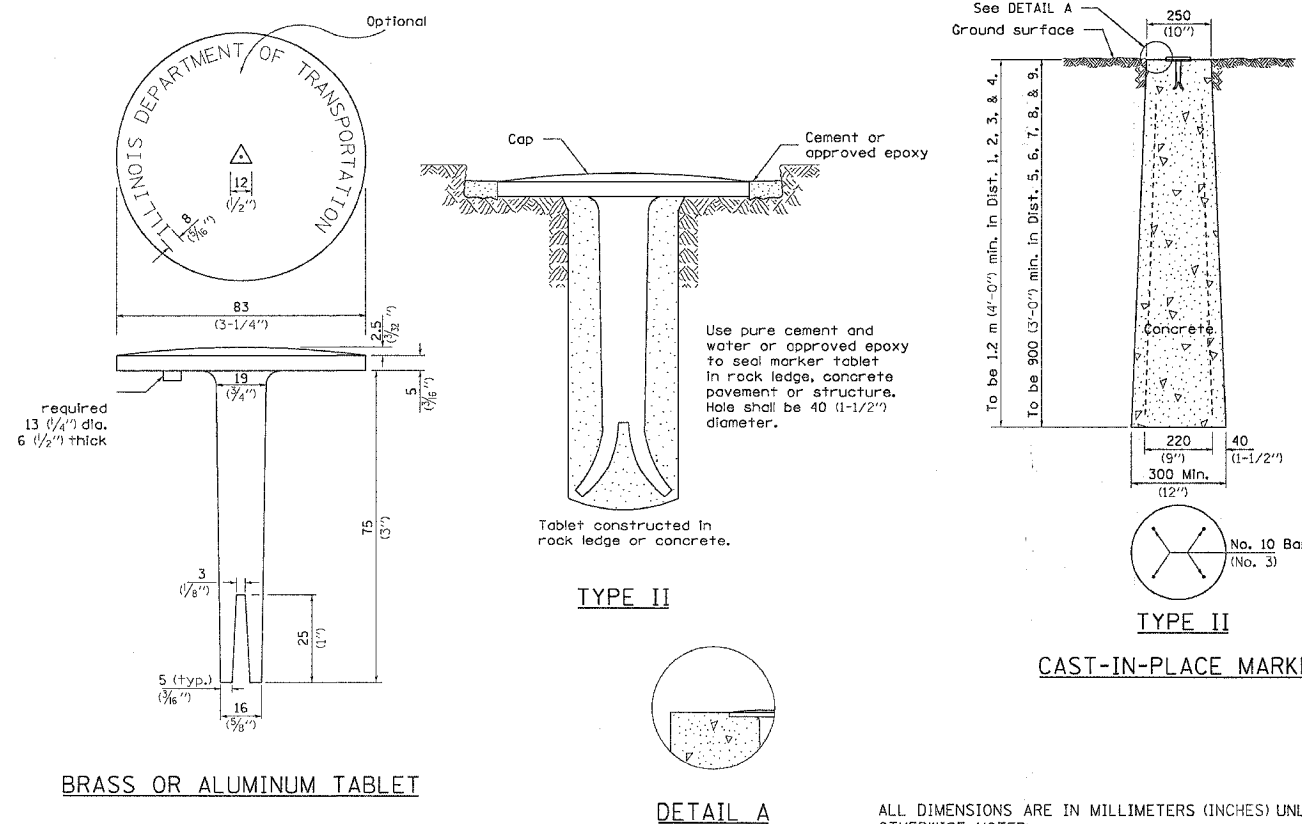
CONTRACT NO. 64B48				
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
301	21T-1	STEPHENSON	64	40
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



GENERAL NOTES

A WITNESS MARKER SHALL BE INSTALLED WITHIN 1' OF ALL PERMANENT SURVEY MARKERS TYPE II EXCEPT IN AREAS WHERE THE MARKER IS IN THE SIDEWALK. THIS WORK WILL BE INCLUDED TO THE CONTRACT UNIT PRICE PER EACH FOR PERMANENT SURVEY MARKERS, TYPE II.

PERMANENT SURVEY MARKERS, TYPE II



BRASS OR ALUMINUM TABLET

DETAIL A

CAST-IN-PLACE MARKER

ALL DIMENSIONS ARE IN MILLIMETERS (INCHES) UNLESS OTHERWISE NOTED.

No. 10 (No. 3) bars to be 750 (30") for 900 (36") min. & 1.1 m (3'-6") for 1.2 m (4'-0") min.

STORM WATER POLLUTION PREVENTION PLAN EROSION CONTROL PLAN

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
301	21T-1	STEPHENSON	64	41
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	

THE FOLLOWING PLAN WAS ESTABLISHED AND INCLUDED IN THESE PLANS TO DIRECT THE CONTRACTOR IN THE PLACEMENT OF TEMPORARY EROSION CONTROL SYSTEMS AND TO PROVIDE A STORM WATER POLLUTION PREVENTION PLAN FOR COMPLIANCE UNDER NPDES.

THE PURPOSE OF THIS PLAN IS TO MINIMIZE SILTATION WITHIN THE CONSTRUCTION ZONE AND TO ELIMINATE SEDIMENTS FROM ENTERING AND LEAVING THE CONSTRUCTION ZONE BY UTILIZING PROPER TEMPORARY EROSION CONTROL SYSTEMS AND PROVIDING GROUND COVER WITHIN A REASONABLE AMOUNT OF TIME.

CERTAIN ITEMS, AS SHOWN IN THIS PLAN AND REFERENCED BY THE LEGEND, SHALL BE PLACED BY THE CONTRACTOR AT THE BEGINNING OF CONSTRUCTION. OTHER ITEMS SHALL BE PLACED BY THE CONTRACTOR AS DIRECTED BY THE ENGINEER ON A CASE BY CASE SITUATION RESULTING FROM THE CONTRACTOR'S SEQUENCE OF ACTIVITIES, TIME OF YEAR, AND EXPECTED WEATHER CONDITIONS.

THE CONTRACTOR SHALL PLACE PERMANENT EROSION CONTROL SYSTEMS AND SEEDING WITHIN A REASONABLE AMOUNT OF TIME; THEREFORE, REDUCING THE AMOUNT OF AREA BEING OPEN TO THE POSSIBILITY OF EROSION AND REDUCING THE AMOUNT OF TEMPORARY SEEDING. THE RESIDENT ENGINEER WILL DETERMINE IF TEMPORARY EROSION CONTROL SYSTEMS SHOWN IN THE PLAN CAN BE DELETED, THE SIZE OF THE PROPOSED DITCH CHECKS, THE PROPER METHOD OF INSTALLATION, AND IF ANY ADDITIONAL TEMPORARY EROSION CONTROL SYSTEMS SHALL BE ADDED WHICH ARE NOT INCLUDED IN THE PLANS. THE CONTRACTOR SHALL PERFORM ALL WORK AS DIRECTED BY THE ENGINEER AND AS SHOWN IN STANDARD 280001 OF THE PLANS.

SITE DESCRIPTION

DESCRIPTION OF CONSTRUCTION ACTIVITY:

THIS PROJECT CONSISTS OF REMOVAL AND REPLACEMENT OF BOX CULVERT AT STA 374+84.62, REMOVAL OF BOX CULVERT AT STA 385+50, AND GRADING AND SHAPING DITCHES

DESCRIPTION OF INTENDED SEQUENCE OF ACTIVITIES:

THE SEQUENCE OF EVENTS ARE AS FOLLOW: CLEARING, EMBANKMENT, EXCAVATION, GRADING AND PAVING. THIS PROJECT WILL BE CONSTRUCTED IN SEGMENTS AS SHOWN IN THE "STAGING PLANS".

TOTAL CONSTRUCTION SITE (CONSTRUCTION LIMIT TO CONSTRUCTION LIMIT)	5.0	ACRES
PROPOSED R.O.W (TOTAL PARCEL AREA)	1.368	ACRES
TEMPORARY EASEMENT	1.0	ACRES
DISTURBED BY EXCAVATION (E.O.P TO CONSTRUCTION LIMIT)	3.25	ACRES

SUPPORTING REPORTS AND PLANS

THE FOLLOWING ASSISTED IN DEVELOPING THE EROSION CONTROL PLAN AS REFERENCED DOCUMENTS:

- SOIL PROFILE SHEETS, SOILS REPORTS, BORING LOGS
- USGS DRAINAGE MAPS, PROJECT PLAN DOCUMENTS

DRAINAGE TRIBUTARIES RECEIVING WATER FROM CONSTRUCTION SITE

YELLOW CREEK TRIBUTARY

EROSION CONTROLS AND SEDIMENT CONTROL PROCEDURES

STABILIZATION PRACTICES AT THE BEGINNING OF CONSTRUCTION:

PERIMETER EROSION CONTROL SHALL BE PLACED PRIOR TO BEGINNING EARTHWORK.

STABILIZATION PRACTICES DURING CONSTRUCTION:

AS EARTH EXCAVATION AND EMBANKMENT ARE BEING COMPLETED THE CONTRACTOR SHALL PLACE DITCH CHECKS, INLET AND PIPE PROTECTION, EROSION CONTROL BLANKET, AND SEEDING AS STAGES OF THE PROJECT ARE COMPLETED. PERIMETER EROSION BARRIER WILL BE INSTALLED AT ADDITIONAL LOCATIONS AS THE PROJECT PROGRESSES. SEEDING SHALL BE COMPLETED AS SPECIFIED IN THE EROSION CONTROL/ SEEDING MOBILIZATION AND TEMPORARY SEEDING SPECIAL PROVISION.

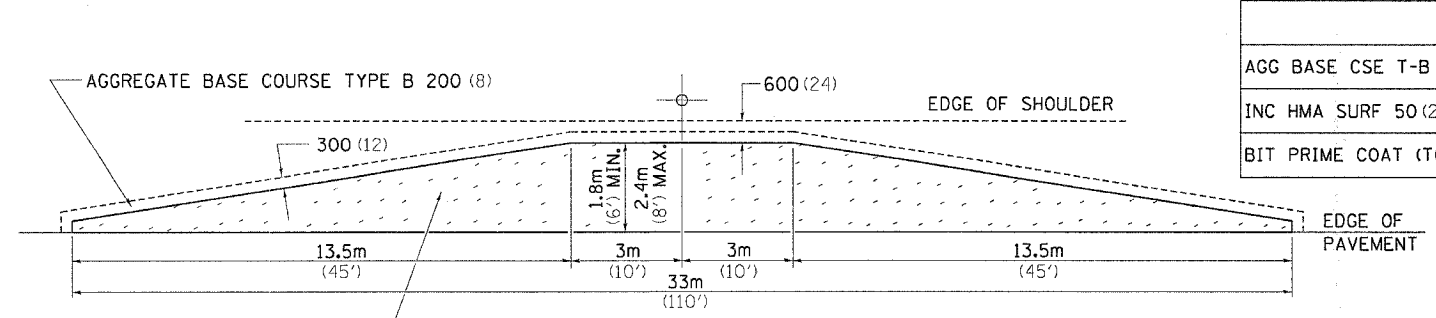
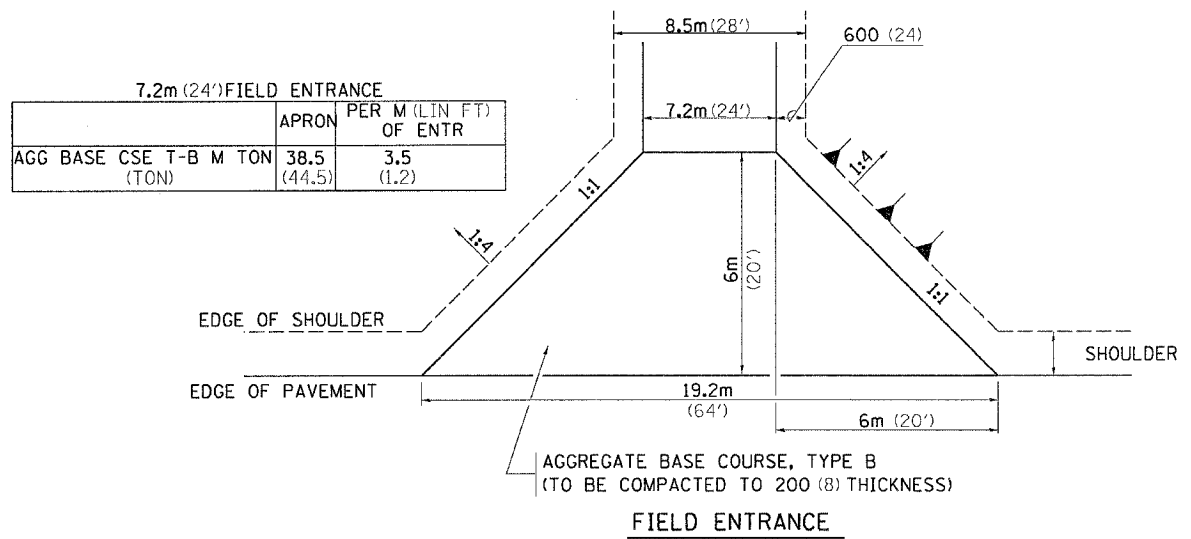
MAINTENANCE AFTER FINAL GRADING

TEMPORARY EROSION CONTROL SYSTEMS SHALL BE LEFT IN PLACE WITH PROPER MAINTENANCE UNTIL PERMANENT EROSION CONTROL IS IN PLACE AND WORKING PROPERLY AND ALL PROPOSED TURF AREAS SEEDED AND ESTABLISHED WITH THE PROPER STAND. ONCE PERMANENT EROSION CONTROL SYSTEMS AS PROPOSED IN THE PLANS ARE FUNCTIONAL AND ESTABLISHED, TEMPORARY ITEMS SHALL BE REMOVED, CLEANED UP AND DISTURBED TURF RESEEDED.

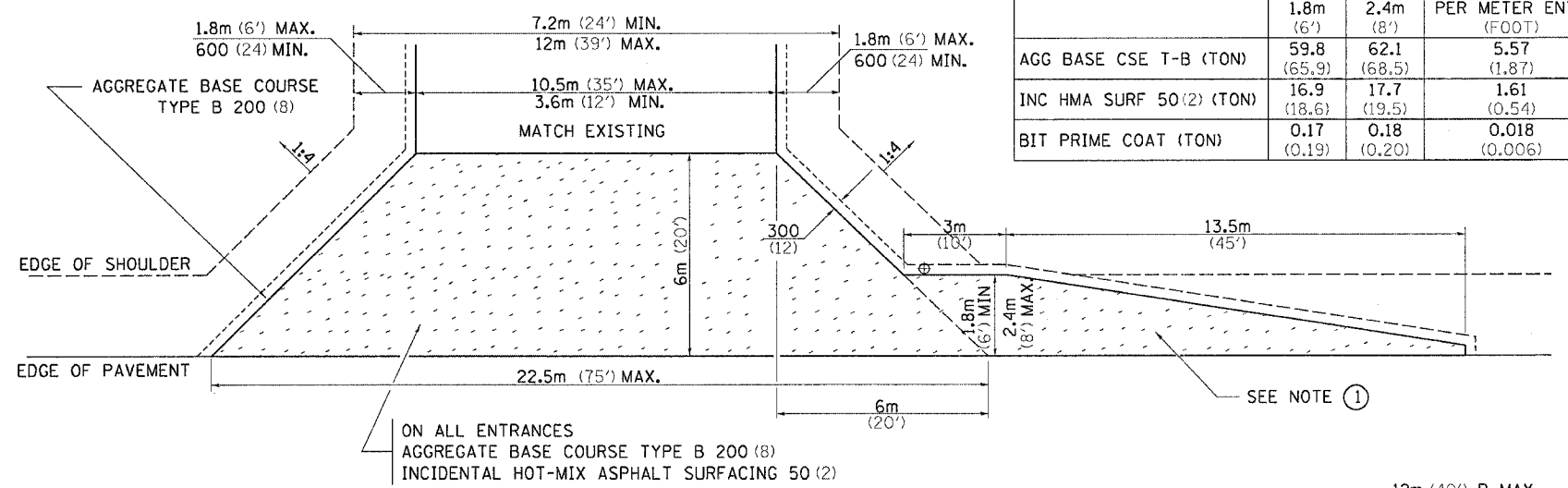
PLOT DATE = Mon Dec 11 09:14:15 2006
 FILE NAME = c:\projects\p21185\ad1185p1.dgn
 PLOT SCALE = 50.0000 / IN.
 REFERENCE = REF#

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
301	21T-1	STEPHENSON	64	42
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

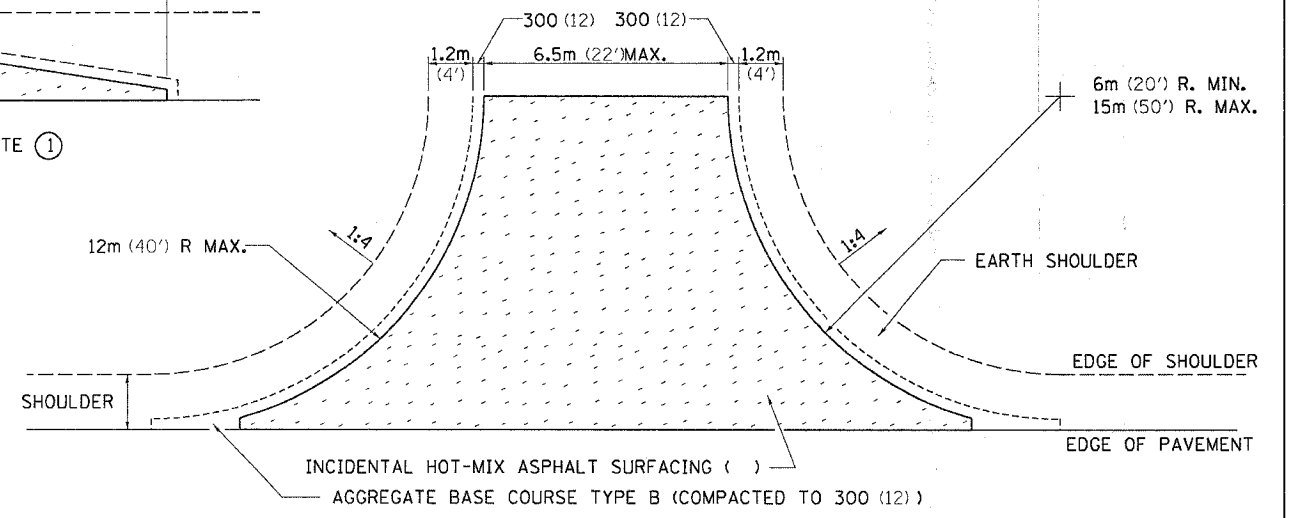
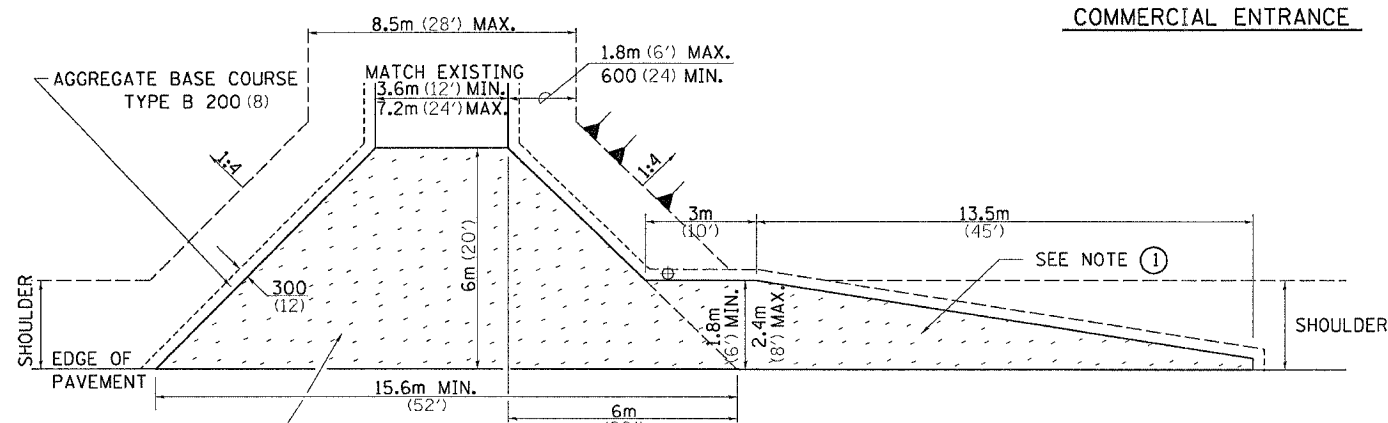
HOT-MIX ASPHALT APPROACHES & MAILBOX RETURNS



	1.8m (6')	2.4m (8')
AGG BASE CSE T-B (TON)	22.2 (24.5)	28.2 (31.1)
INC HMA SURF 50 (2) (TON)	5.3 (5.8)	7.1 (7.8)
BIT PRIME COAT (TON)	0.05 (0.06)	0.07 (0.08)



- NOTE**
- TURNOUTS ARE TO BE CONSTRUCTED ON THE APPROACH SIDE OF ALL PE & CE REGARDLESS IF A MAILBOX IS PRESENT.
 - ALL PE & CE ARE TO BE SURFACED TO RIGHT OF WAY LINE. AREA BEHIND RIGHT OF WAY SHALL MATCH EXISTING SURFACE.
 - FE ARE TO BE AGGREGATE TO RIGHT OF WAY OR TOUCH DOWN, WHICH EVER IS GREATEST.
 - QUANTITIES ARE CALCULATED WITH 1' BITUMINOUS SHOULDER IN PLACE. AGGREGATE QUANTITIES SHOWN ARE FOR NEW CONSTRUCTION.
 - EXCAVATION REQUIRED FOR PLACEMENT OF AGGREGATE BASE COURSE SHALL BE CONSIDERED INCIDENTAL TO THE AGGREGATE BASE COURSE.
 - ALL DIMENSIONS ARE IN MILLIMETERS (INCHES) UNLESS OTHERWISE NOTED.



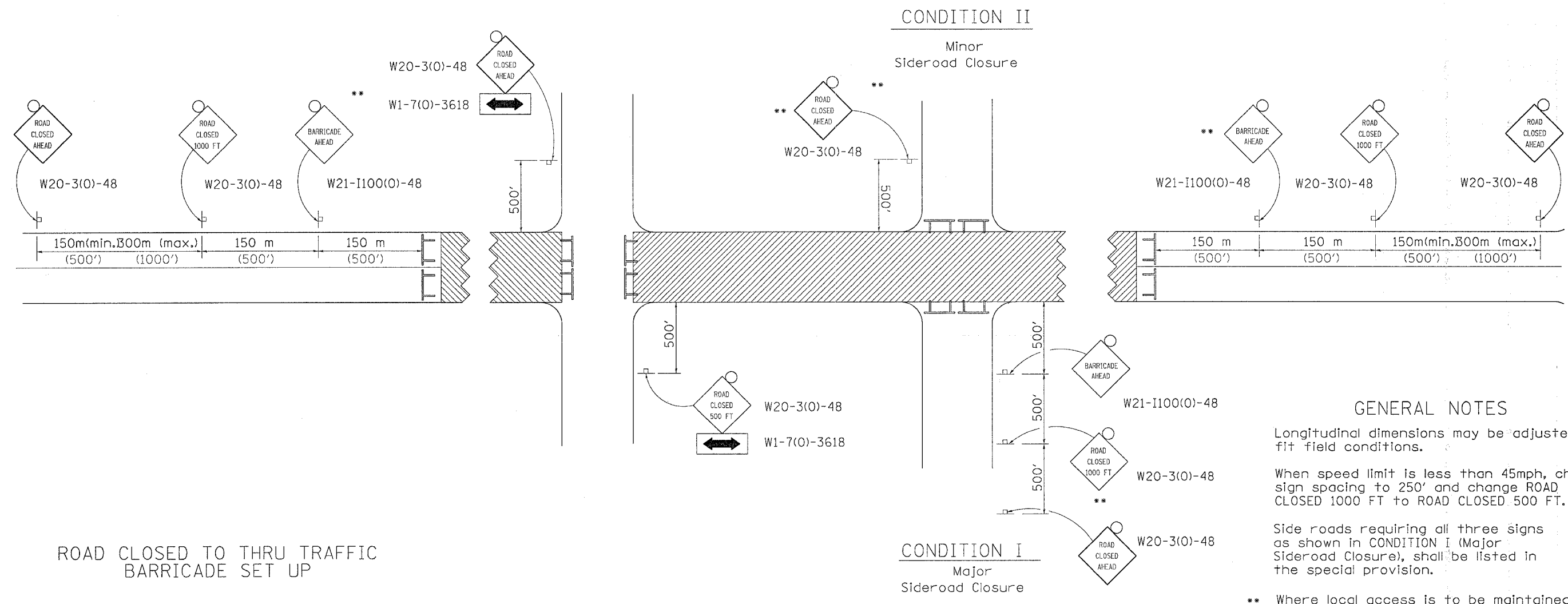
	6m RADIUS (20')			9m RADIUS (30')			12m RADIUS (40')		
	5.5m (18')	6m (20')	6.5m (22')	5.5m (18')	6m (20')	6.5m (22')	5.5m (18')	6m (20')	6.5m (22')
AGG BASE CSE T-B (TON)	40.9 (45.1)	43.7 (48.2)	46.4 (51.2)	70.3 (77.5)	74.4 (82.0)	78.6 (86.6)	105.5 (116.3)	111.0 (122.4)	116.6 (128.5)
INC HMA SURF AT 25 (1) (TON)	3 (3.3)	3.3 (3.6)	3.4 (3.8)	5.3 (5.8)	5.5 (6.1)	5.9 (6.5)	8.0 (8.8)	8.4 (9.3)	9.0 (9.9)
BIT PRIME COAT (TON)	0.07 (0.08)	0.08 (0.09)	0.10 (0.10)	0.14 (0.15)	0.15 (0.16)	0.15 (0.17)	0.20 (0.22)	0.22 (0.24)	0.23 (0.25)

NOTE: USE 50 (2) INC. HMA SURF. ON EXISTING RETURNS

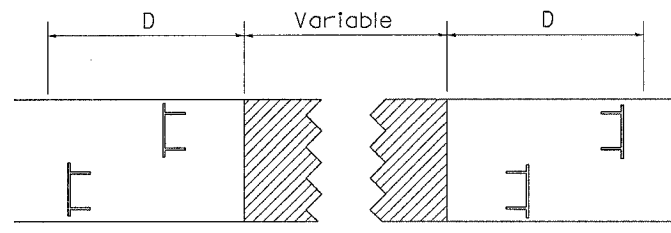
PLOT DATE = Mon Dec 11 09:41:17 2006
 FILE NAME = c:\pwworkspace\221105\11105pld.dgn
 SHEET NO. = 7 IN.
 REFERENCE = SHEET#

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
301	21T-1	STEPHENSON	64	43
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		




TRAFFIC CONTROL FOR ROAD CLOSURE



ROAD CLOSED TO THRU TRAFFIC BARRICADE SET UP



Type III Barricades and R11-4-4830 signs shall be as shown in "Road Closed To All Thru Traffic" detail on Highway Standard 702001. If the distance "D" exceeds 600 m (2000') an additional set of barricades and R11-4-4830 shall be placed at each end of the work area.

- SYMBOLS**
-  Work area
 -  Type III Barricade with Flashers
 -  Sign with flashing light

- GENERAL NOTES**
- Longitudinal dimensions may be adjusted to fit field conditions.
 - When speed limit is less than 45mph, change sign spacing to 250' and change ROAD CLOSED 1000 FT to ROAD CLOSED 500 FT.
 - Side roads requiring all three signs as shown in CONDITION I (Major Sideroad Closure), shall be listed in the special provision.
 - ** Where local access is to be maintained, barricades are to be set up as shown in Road Closed to thru traffic.
 - Type III Barricades and R11-2-4830 signs shall be as shown in "Road Closed To All Traffic" detail on Highway Standard 702001.

All dimensions are in millimeters (inches) unless otherwise shown.

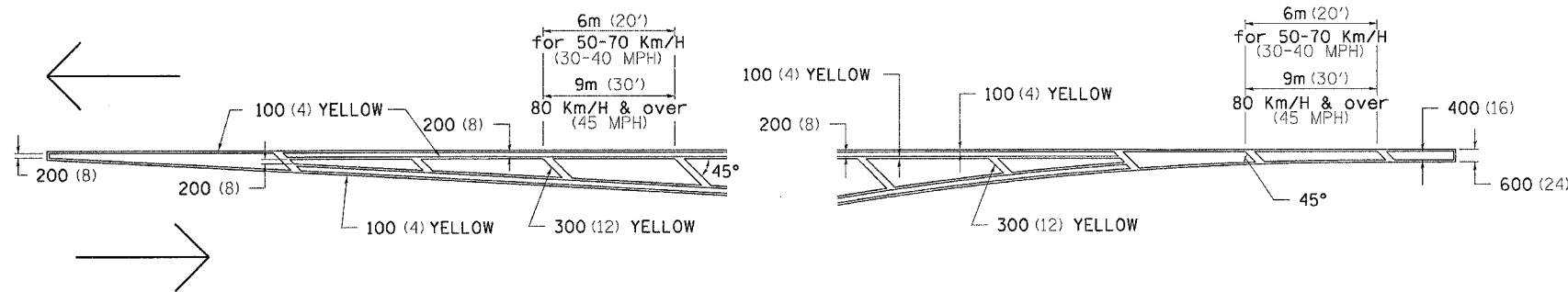
TYPICAL APPLICATION FOR ROAD CLOSURE

PLOT DATE = Mon Dec 11 09:44:17 2006
 FILE NAME = c:\pwworkspace\62111055\d111055.plt
 REFERENCE = REF#

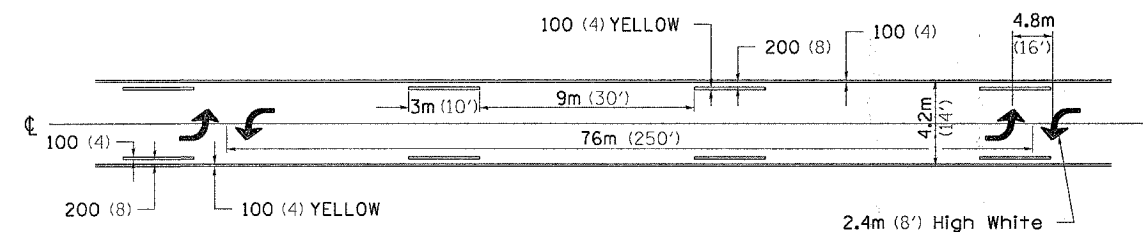
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
301	21T-1	STEPHENSON	64	44
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

TYPICAL PAVEMENT MARKINGS

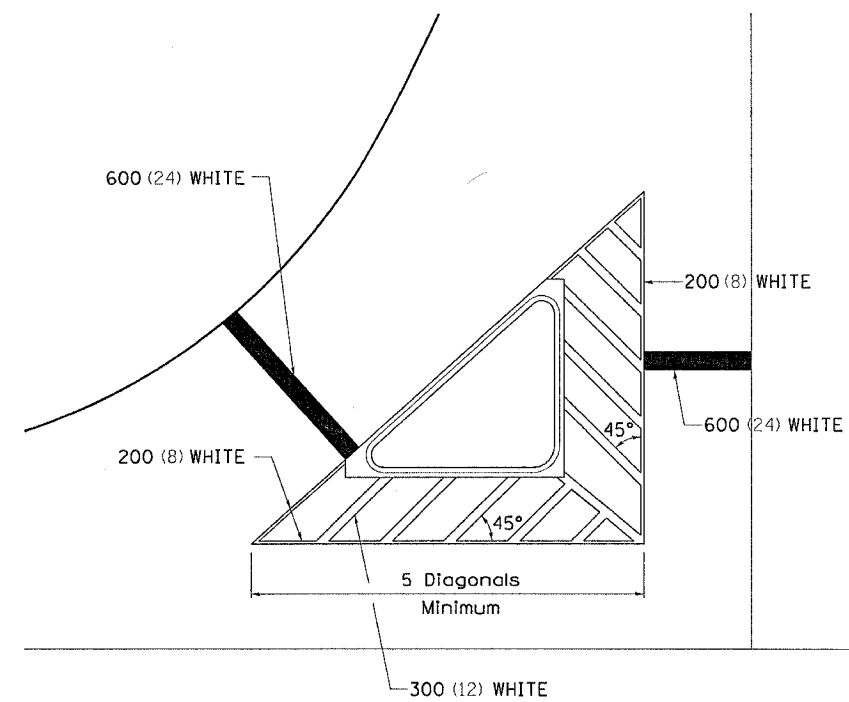
TYPICAL PAVEMENT MARKING FOR FLUSH MEDIAN AT LEFT TURN LANE



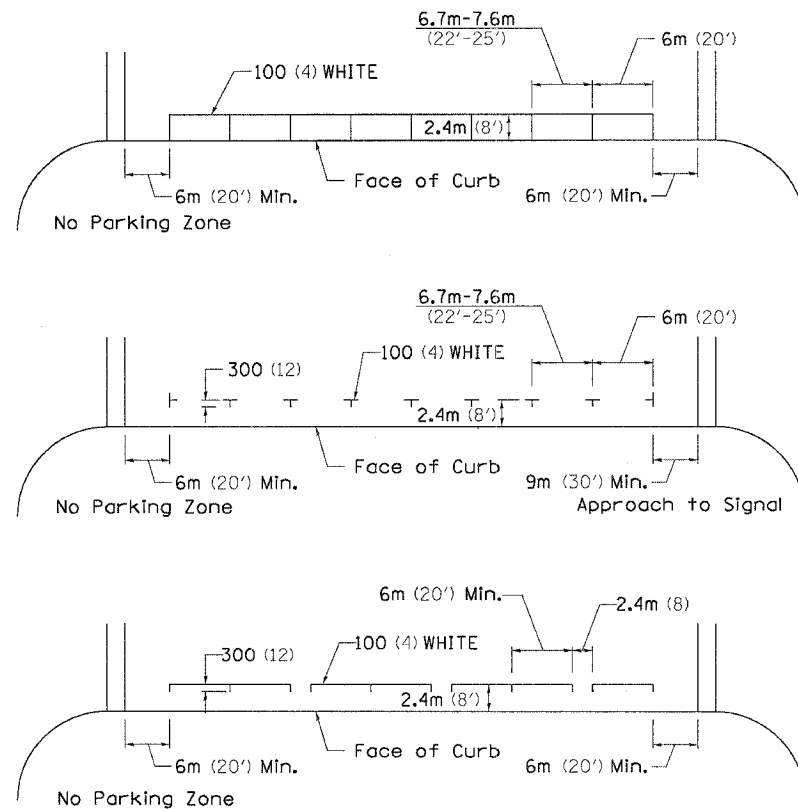
MEDIAN PAVEMENT MARKING



TYPICAL ISLAND OFFSET SHOULDER WIDTH

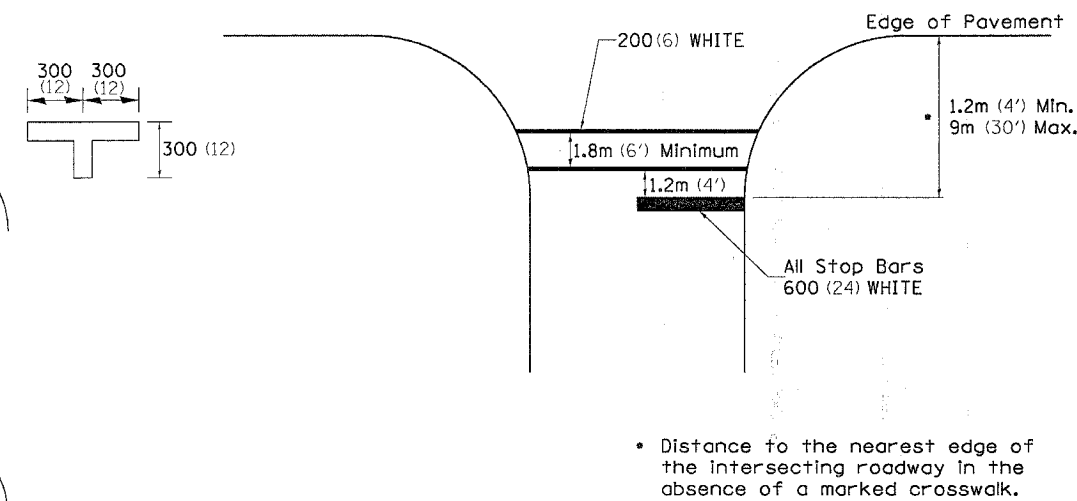


TYPICAL PARKING SPACING



•• ALL DIMENSIONS ARE IN MILLIMETERS (INCHES) UNLESS OTHERWISE NOTED.

STANDARD CROSSWALK MARKING
See Schedules for Locations



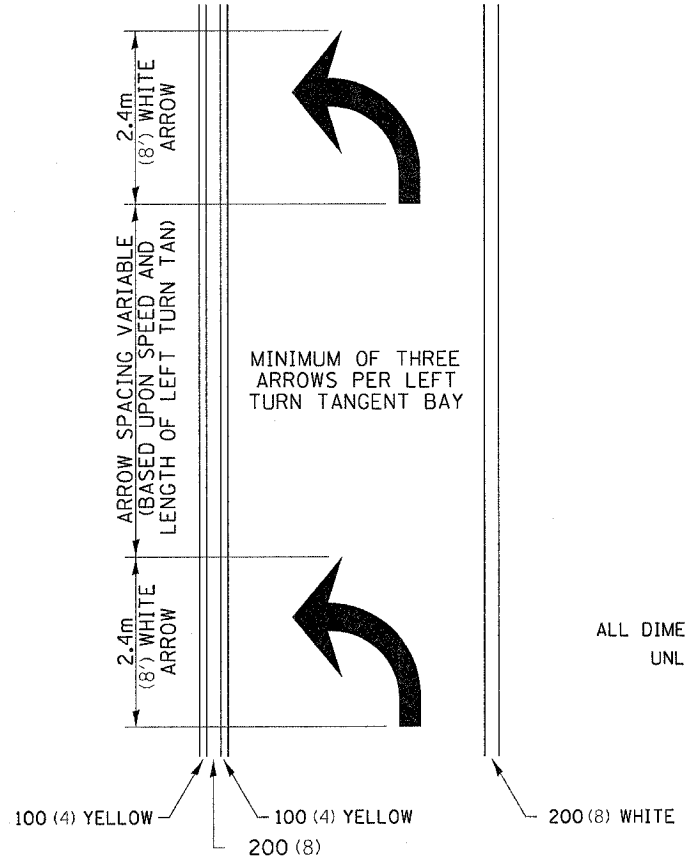
• Distance to the nearest edge of the intersecting roadway in the absence of a marked crosswalk.

PLOT DATE = Mon, Dec 11, 2006 11:05:14 AM
FILE NAME = S:\211180\211180.dgn
PLOT SCALE = 50.0000 X 1.0000
REFERENCE = #REF#

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
301	21T-1	STEPHENSON	64	45
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

TYPICAL PAVEMENT MARKINGS

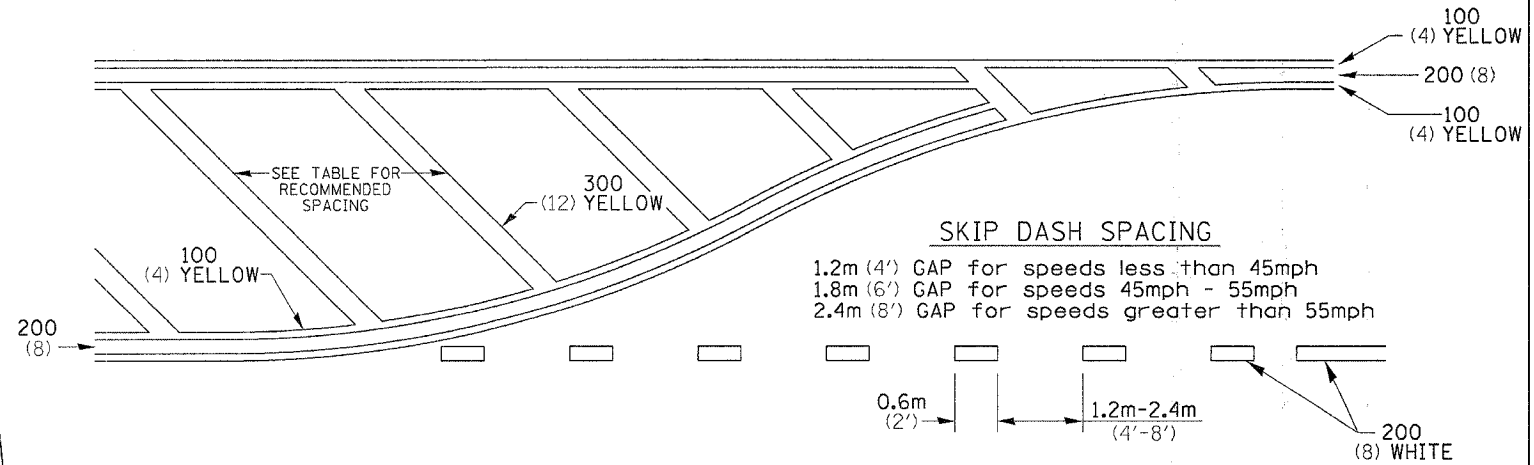
ARROW LAYOUT



- ◀ ONE-WAY AMBER MARKER
- △ ONE-WAY CRYSTAL MARKER
- ◆ TWO-WAY AMBER MARKER

ALL DIMENSIONS ARE IN MILLIMETERS (INCHES) UNLESS OTHERWISE NOTED.

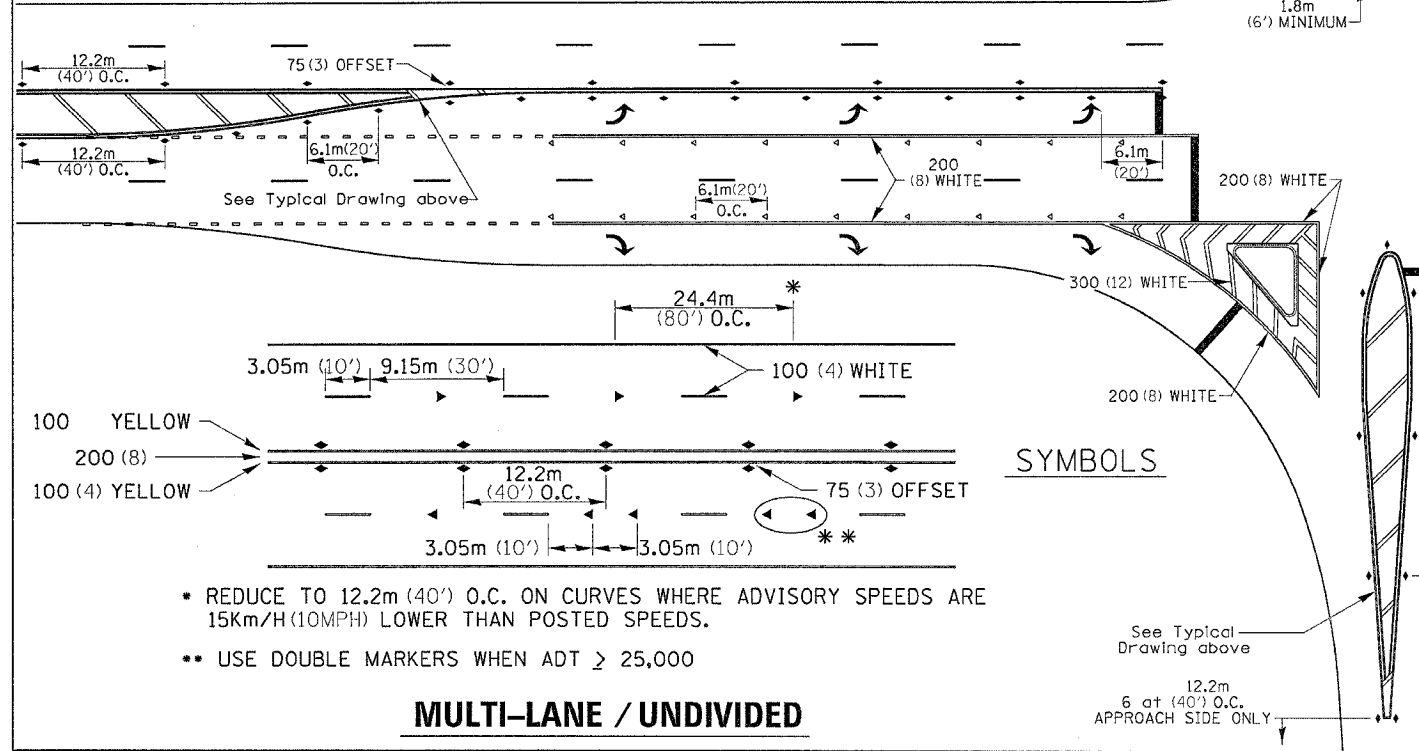
TYPICAL PAVEMENT MARKING FOR FLUSH MEDIAN



RECOMMENDED SPACING BETWEEN DIAGONALS (IN FEET)

Speed Limit Range	Continuous Median Area	Intersection Channelization	Objects (Islands)
less than 50Km/H (30MPH)	15.3m (50')	4.53m (15')	3.05m (10')
50-60Km/H (30-40MPH)	22.9m (75')	6.1m (20')	4.53m (15')
70Km/H (45MPH) & over	22.9m (75')	9.05m (30')	6.1m (20')

NOTE: If the spacing recommended in the Table does not permit at least five diagonal lines in the area being marked, the spacing from the next lowest speed range should be used. The recommended spacing is measured parallel to the pavement center line.

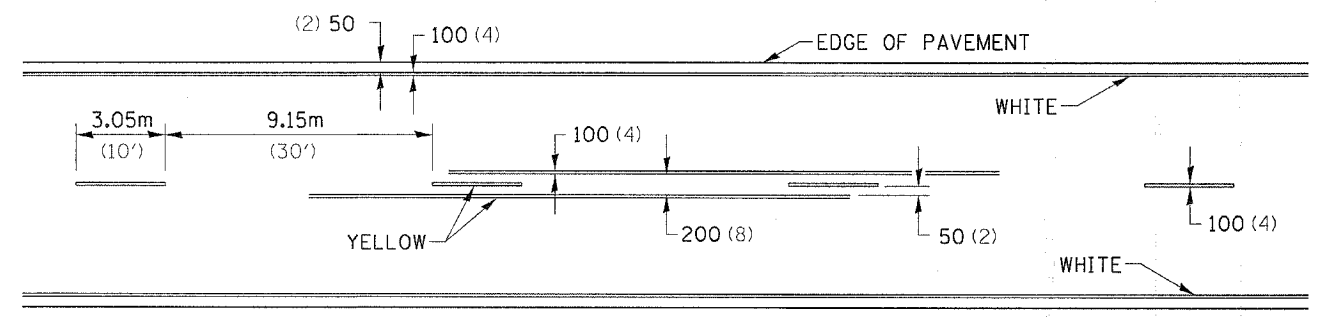


SYMBOLS

- * REDUCE TO 12.2m (40') O.C. ON CURVES WHERE ADVISORY SPEEDS ARE 15Km/H (10MPH) LOWER THAN POSTED SPEEDS.
- ** USE DOUBLE MARKERS WHEN ADT ≥ 25,000

MULTI-LANE / UNDIVIDED

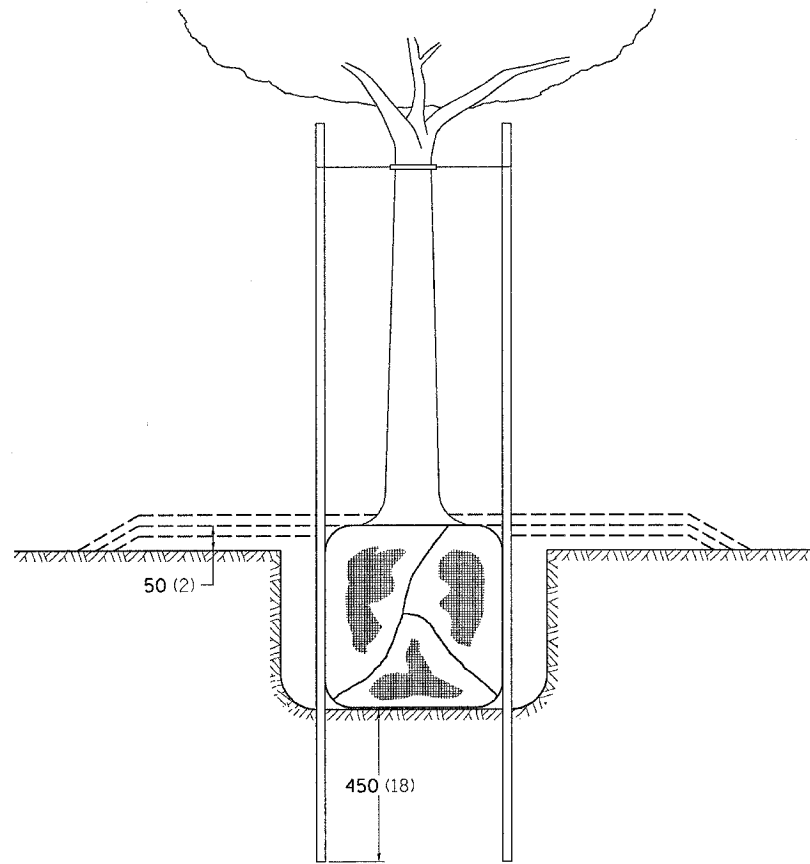
TYPICAL PAVEMENT MARKING FOR TWO LANE SECTION - NO PASSING ZONES



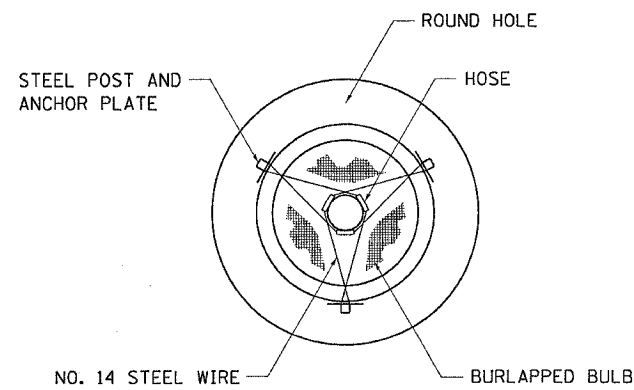
PLOT DATE = Mon Dec 11 09:41:16 2006
 FILE NAME = c:\pav\pav\pav21185.dwg
 PLOT SCALE = 1:1
 PLOT REFERENCE = REF

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
301	21T-1	STEPHENSON	64	46
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

DETAILS OF PLANTING AND BRACING TREES

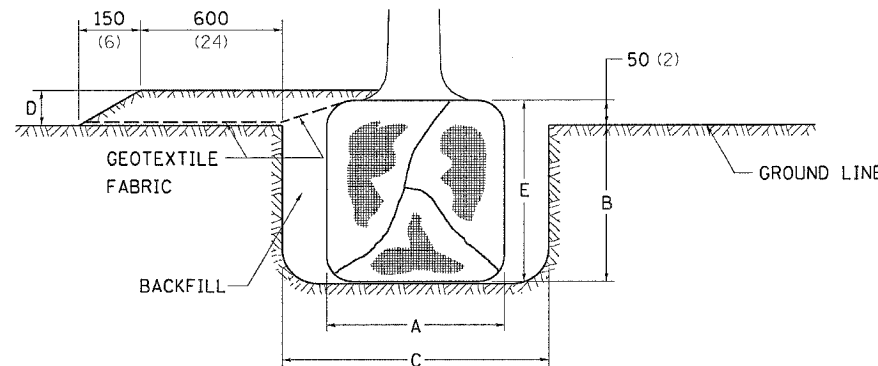


TREES SMALLER THAN 115 (4 1/2) IN DIAMETER

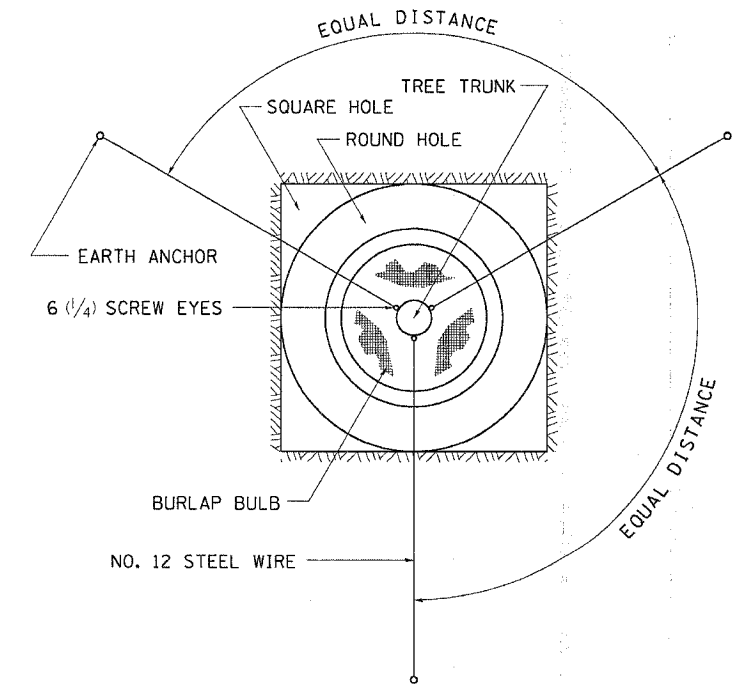


SMALL	A	B	C	D	E	F
TREE SIZE	DIAMETER OF BALL OR ROOT SYS.	DEPTH OF HOLE EXCAVATION	WIDTH OF HOLE EXCAVATION	THICKNESS OF MULCH COVER	DEPTH OF BALL OR ROOT SYS.	VOLUME OF MULCH COVER m ³ (CU. YDS.)
1.5-1.8m (5'-6')	400 (16)	250 (10)	750 (30)	100 (4)	300 (12)	0.41 (0.54)
1.5-1.8m (5'-6') BB	400 (16)	250 (10)	750 (30)	100 (4)	300 (12)	0.41 (0.54)
1.8-2.0m (6'-7') BB	450 (18)	300 (12)	750 (30)	100 (4)	350 (14)	0.41 (0.54)
2.0-2.4m (7'-8') BB	500 (20)	275 (11)	750 (30)	100 (4)	325 (13)	0.41 (0.54)
2.4-3.0m (8'-10') BB	600 (24)	350 (14)	900 (36)	100 (4)	400 (16)	0.47 (0.61)
3.0-3.6m (10'-12') BB	650 (26)	375 (15)	900 (36)	100 (4)	425 (17)	0.47 (0.61)

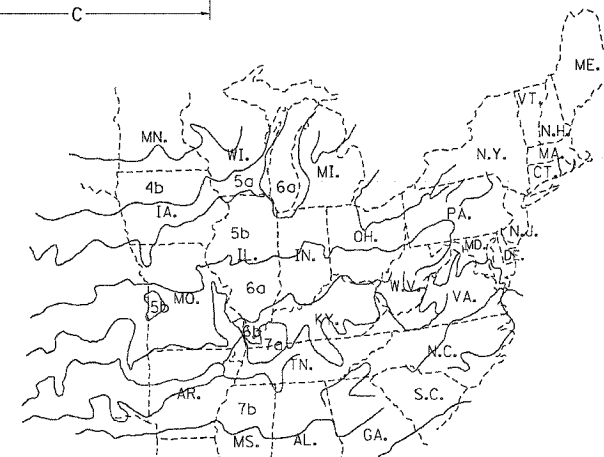
LARGE	A	B	C	D	E	F
TREE SIZE	DIAMETER OF BALL OR ROOT SYS.	DEPTH OF HOLE EXCAVATION	WIDTH OF HOLE EXCAVATION	THICKNESS OF MULCH COVER	DEPTH OF BALL OR ROOT SYS.	VOLUME OF MULCH COVER m ³ (CU. YDS.)
0-50 (0-2)	500 (20)	275 (11)	900 (36)	100 (4)	325 (13)	0.47 (0.61)
50-65 (2-2 1/2) BB	600 (24)	350 (14)	1200 (48)	100 (4)	400 (16)	0.60 (0.78)
65-75 (2 1/2-3) BB	700 (28)	425 (17)	1200 (48)	100 (4)	475 (19)	0.60 (0.78)
75-90 (3-3 1/2) BB	800 (32)	425 (17)	1500 (60)	100 (4)	475 (19)	0.73 (0.96)
90-100 (3 1/2-4) BB	900 (36)	500 (20)	1500 (60)	100 (4)	550 (22)	0.73 (0.96)
100-115 (4-4 1/2) BB	1000 (40)	550 (22)	1800 (72)	100 (4)	600 (24)	0.89 (1.16)
115-125 (4 1/2-5) BB	1100 (44)	600 (24)	1800 (72)	100 (4)	650 (26)	0.89 (1.16)
125-140 (5-5 1/2) BB	1200 (48)	675 (27)	2100 (84)	100 (4)	725 (29)	1.06 (1.38)



TREES OVER 115 (4 1/2) IN DIAMETER



ALL DIMENSIONS ARE IN MILLIMETERS (INCHES) UNLESS OTHERWISE NOTED.



PLANT HARDINESS ZONE MAP
U.S. DEPARTMENT OF AGRICULTURE
AGRICULTURAL RESEARCH SERVICE
PUBLICATION NO. 814

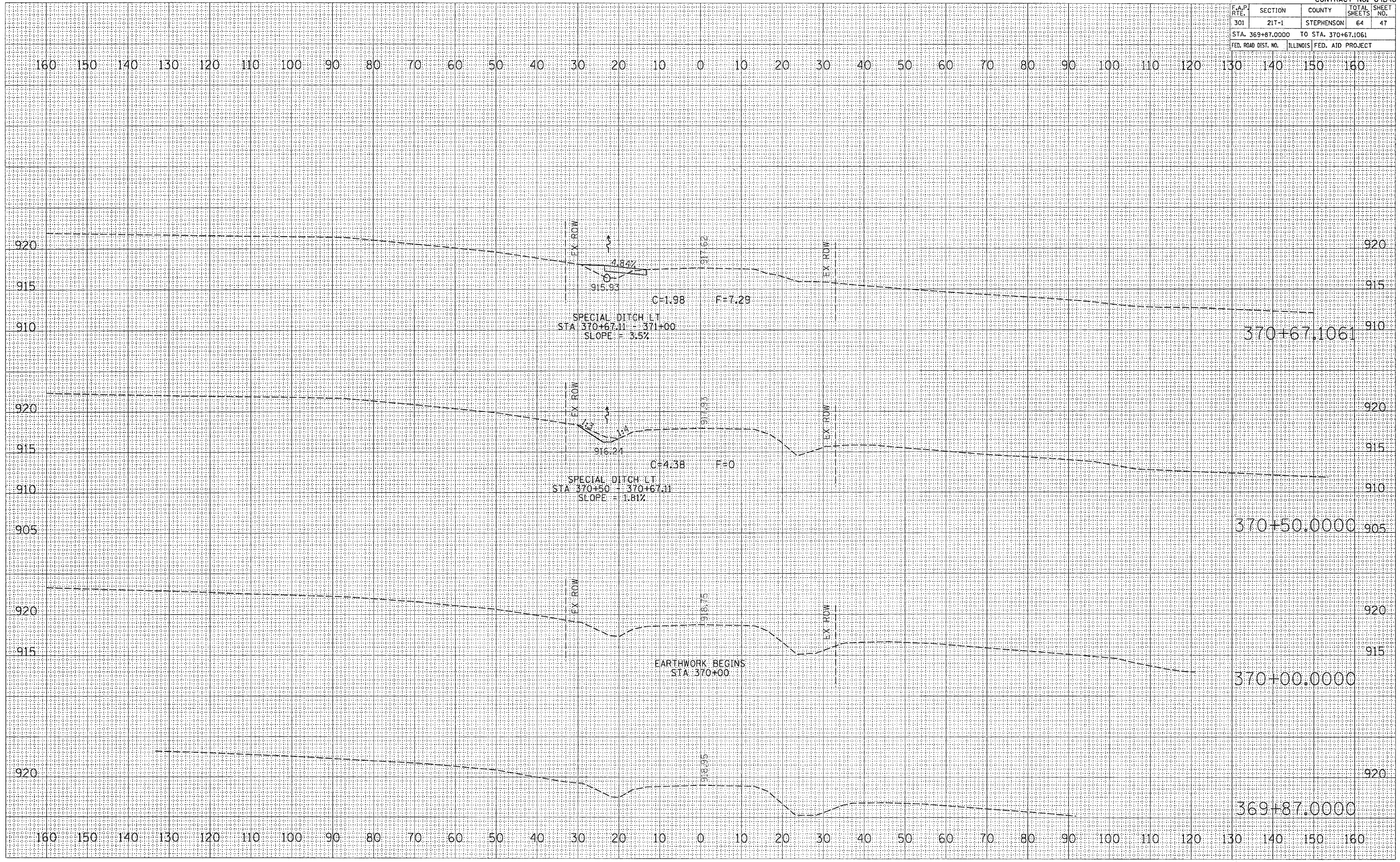
PLOT DATE = Mon Dec 11 09:14:17 2006
FILE NAME = c:\p\projects\21105\ad11105\p1.dgn
PLOT SCALE = 50.0000 / IN.
REFERENCE = SHEET

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
301	21T-1	STEPHENSON	64	47
STA. 369+87.0000 TO STA. 370+67.1061				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

DATE	
BY	
FINISHED	
SURVEY	
NOTE BOOK	
AREAS CHECKED	
NO.	

DATE	
BY	
REVISION	
DATE	
BY	
NOTE BOOK	
AREAS CHECKED	
NO.	

PLOT DATE: Mon Dec 11 09:15:07 2006
 FILE NAME: c:\pvc\jms\211195\011195\del.dgn
 USER: jms
 USER NAME: jms



F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
301	21T-1	STEPHENSON	64	48
STA. 370+86.0000 TO STA. 372+00.0000				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

DATE	BY

NO.	AREAS CHECKED

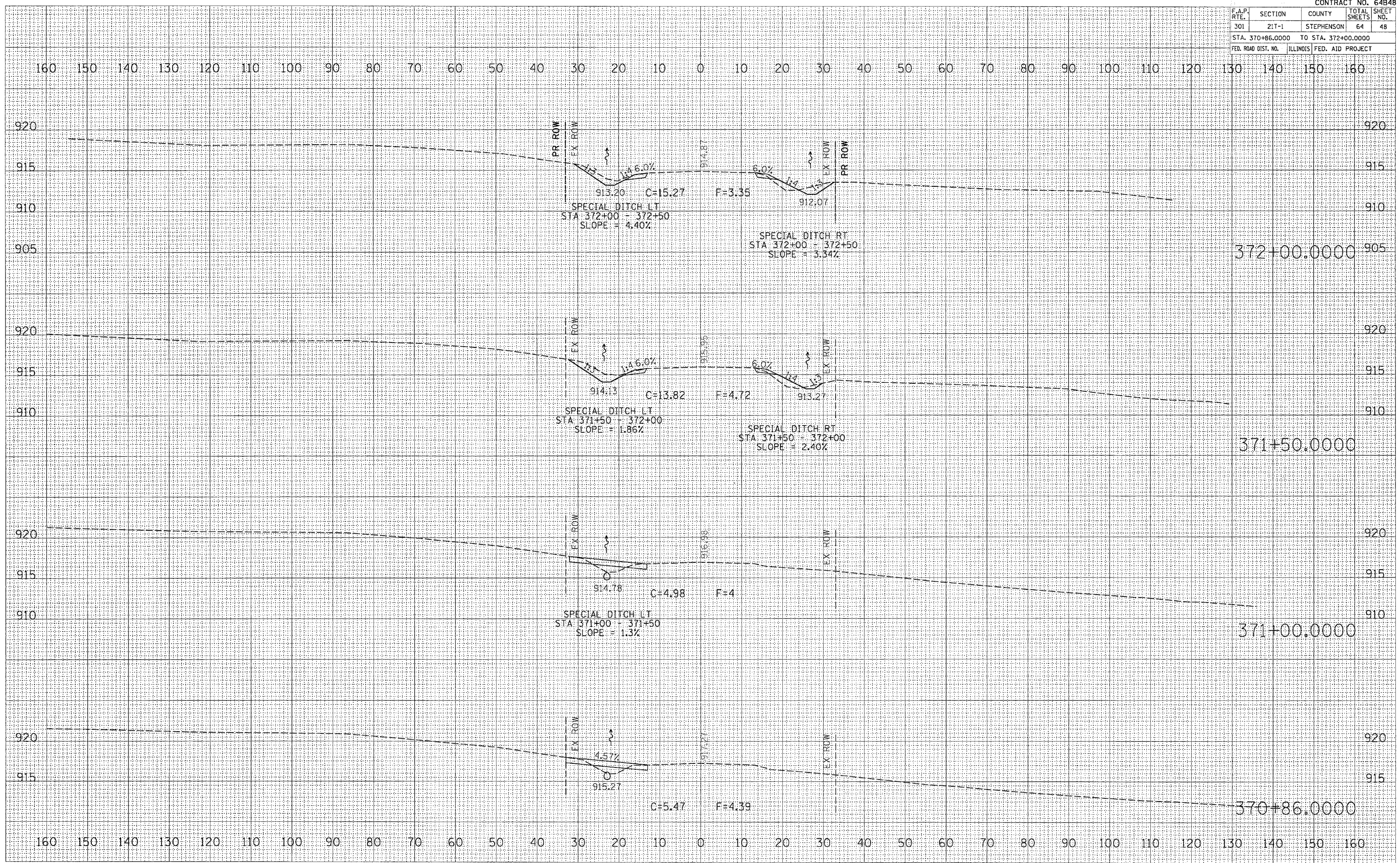
NO.	AREAS CHECKED

DATE	BY

NO.	AREAS CHECKED

NO.	AREAS CHECKED

PLOT DATE = Mon Dec 11 09:15:07 2006
 FILE NAME = m:\work\stephens\p311105\dl1105\plan.dgn
 USER NAME = jrc

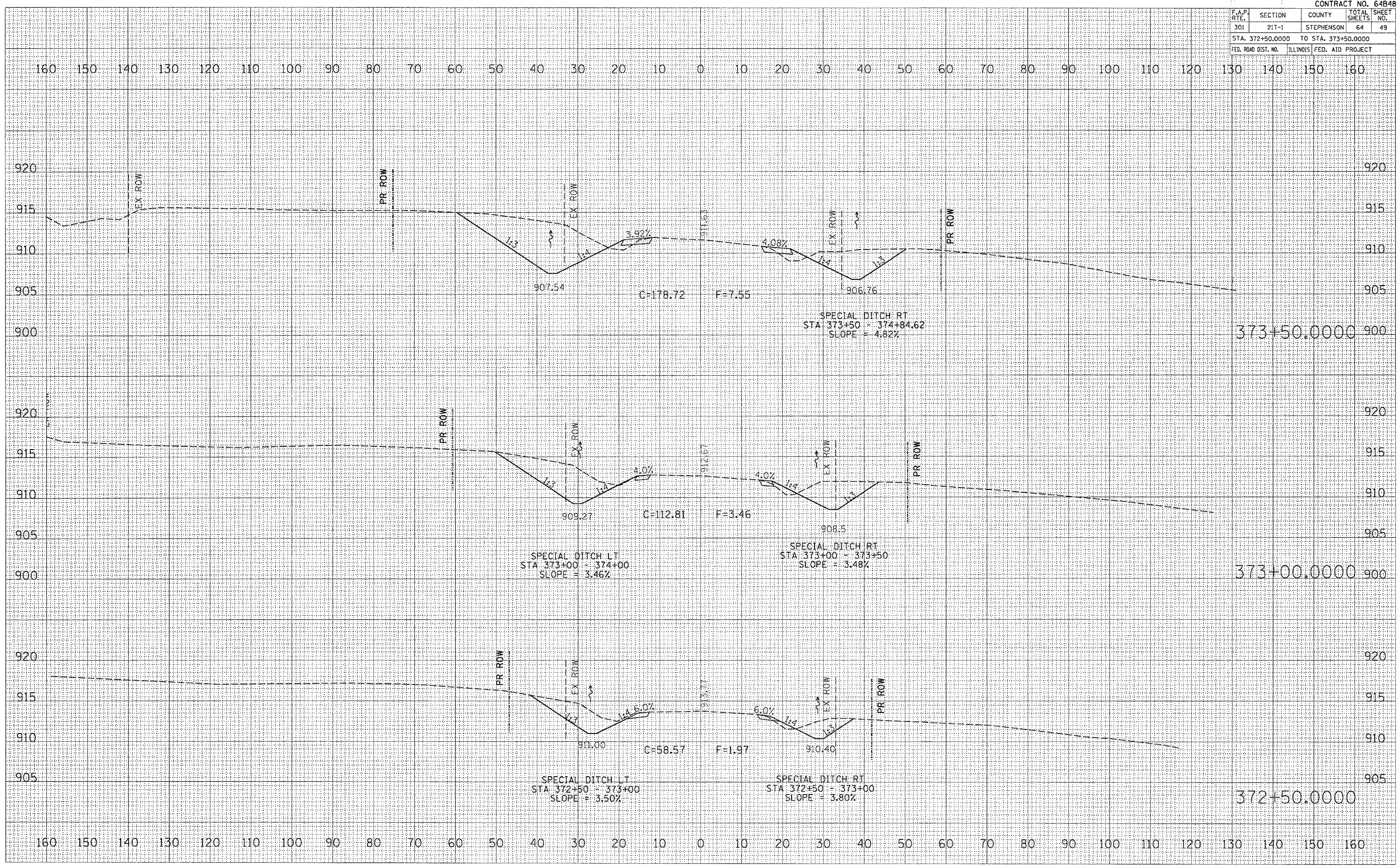


F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
301	21T-1	STEPHENSON	64	49
STA. 372+50.0000 TO STA. 373+50.0000				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

FINAL SURVEY	DATE
BY	
NO.	
AREAS CHECKED	
PLATE	
PLATE	
PLATE	

ORIGINAL SURVEY	DATE
BY	
NO.	
AREAS CHECKED	
PLATE	
PLATE	
PLATE	

PLOT DATE: Mon Dec 11 09:58:08 2006
 FILE NAME: c:\projects\stephen\1105\1105.dwg
 USER NAME: jperney

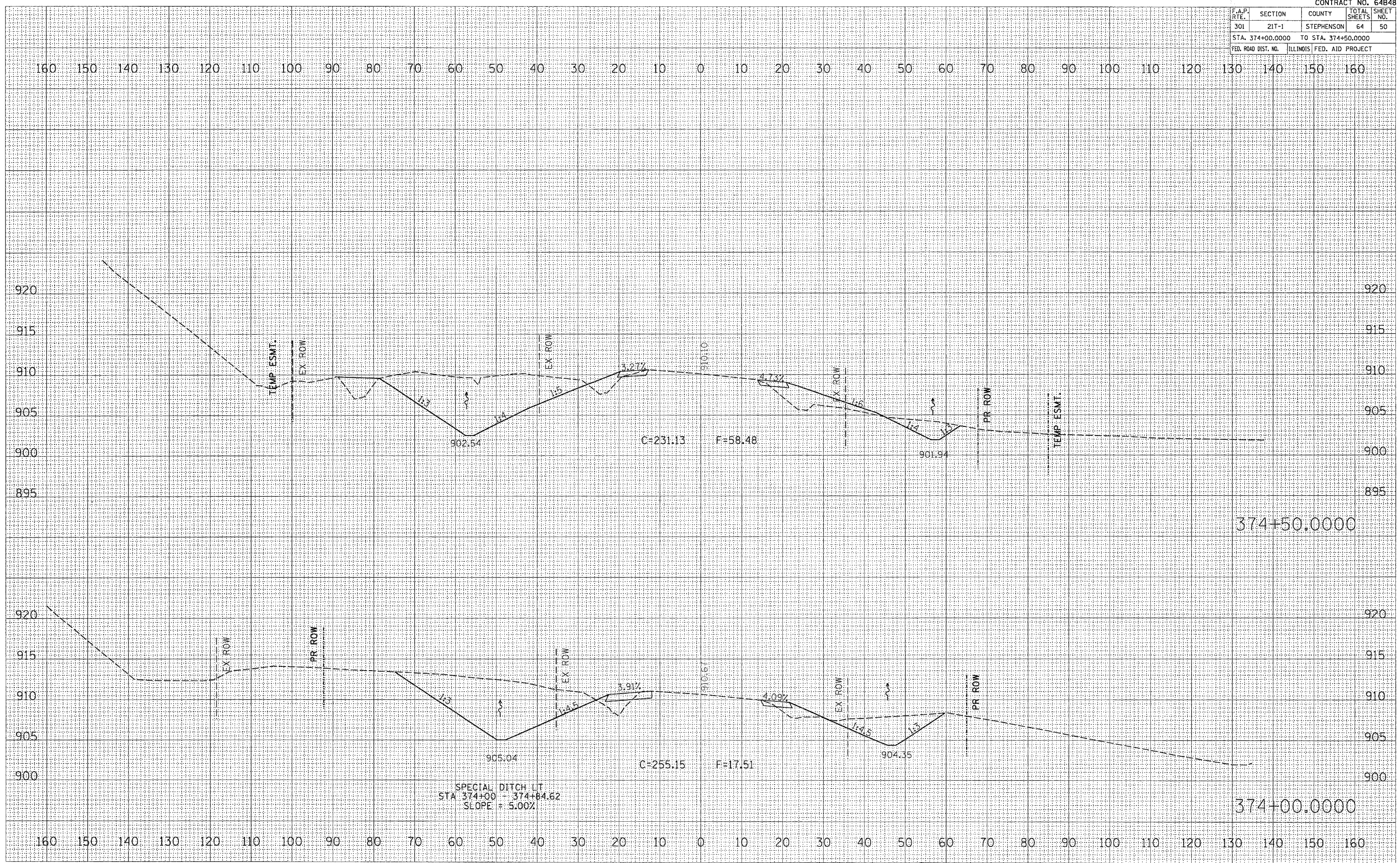


F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
301	21T-1	STEPHENSON	64	50
STA. 374+00.0000		TO STA. 374+50.0000		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

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

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

PLOT DATE = Mon Dec 11 09:15:08 2006
 FILE NAME = c:\p\stephens\211195\dl1195\dwg\...
 SCALE = 10.0000 / 1" = 100.0000'
 USER NAME = r...j

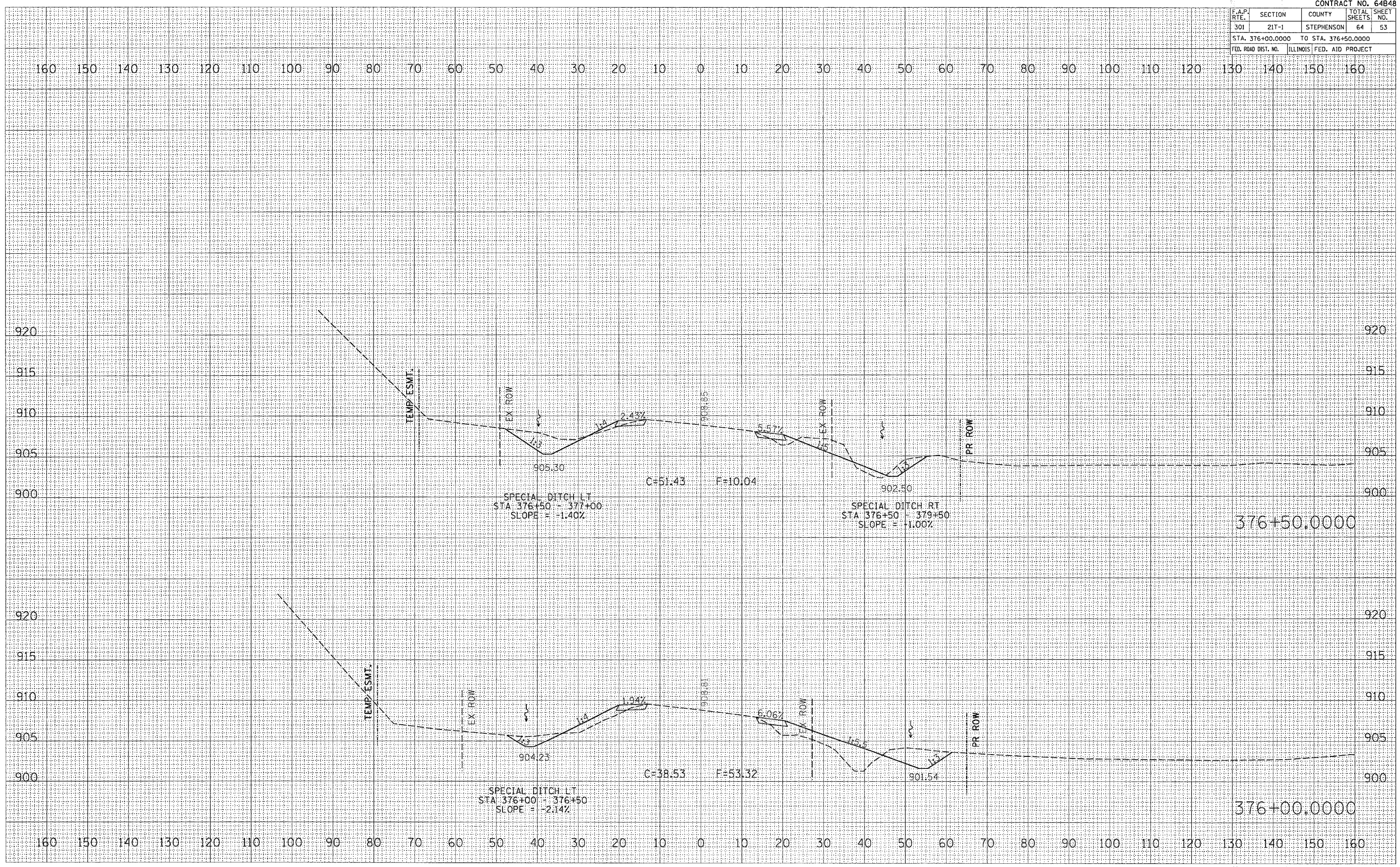


F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
301	21T-1	STEPHENSON	64	53
STA. 376+00.0000 TO STA. 376+50.0000				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

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

ORIGINAL SURVEY	REVISED	DATE
NOTE BOOK	T. LATE	BY
NO.	AREAS CHECKED	

PLOT DATE * Mon Dec 11 09:56:09 2006
 FILE NAME * c:\pvc\jessie\p21105\dl1105\plan.dgn
 USER NAME * jessie
 USER * jessie

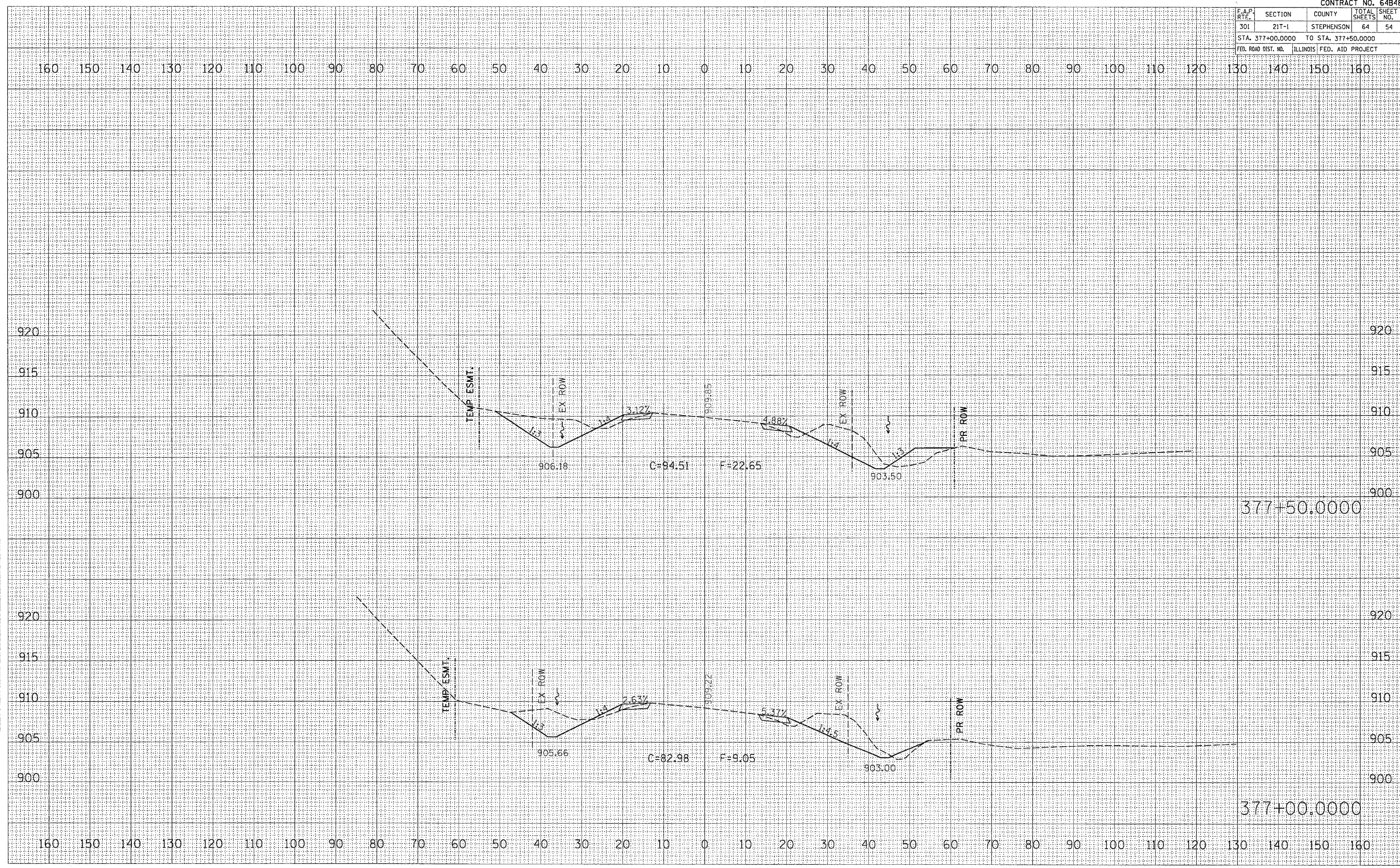


F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
301	21T-1	STEPHENSON	64	54
STA. 377+00.0000 TO STA. 377+50.0000				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

FINAL SURVEY
 CHECKED BY: [Signature]
 DATE: [Blank]
 SURVEY NO.: [Blank]
 TEMPLATE: [Blank]
 NOTE BOOK NO.: [Blank]
 AREAS CHECKED: [Blank]

ORIGINAL SURVEY
 CHECKED BY: [Signature]
 DATE: [Blank]
 SURVEY NO.: [Blank]
 TEMPLATE: [Blank]
 NOTE BOOK NO.: [Blank]
 AREAS CHECKED: [Blank]

PLOT DATE = Mon Dec 11 09:51:09 2006
 FILE NAME = c:\p\proj\211025\1105\m1.dgn
 PLOT SCALE = 18.00000' / IN.
 USER NAME = rekerlelj

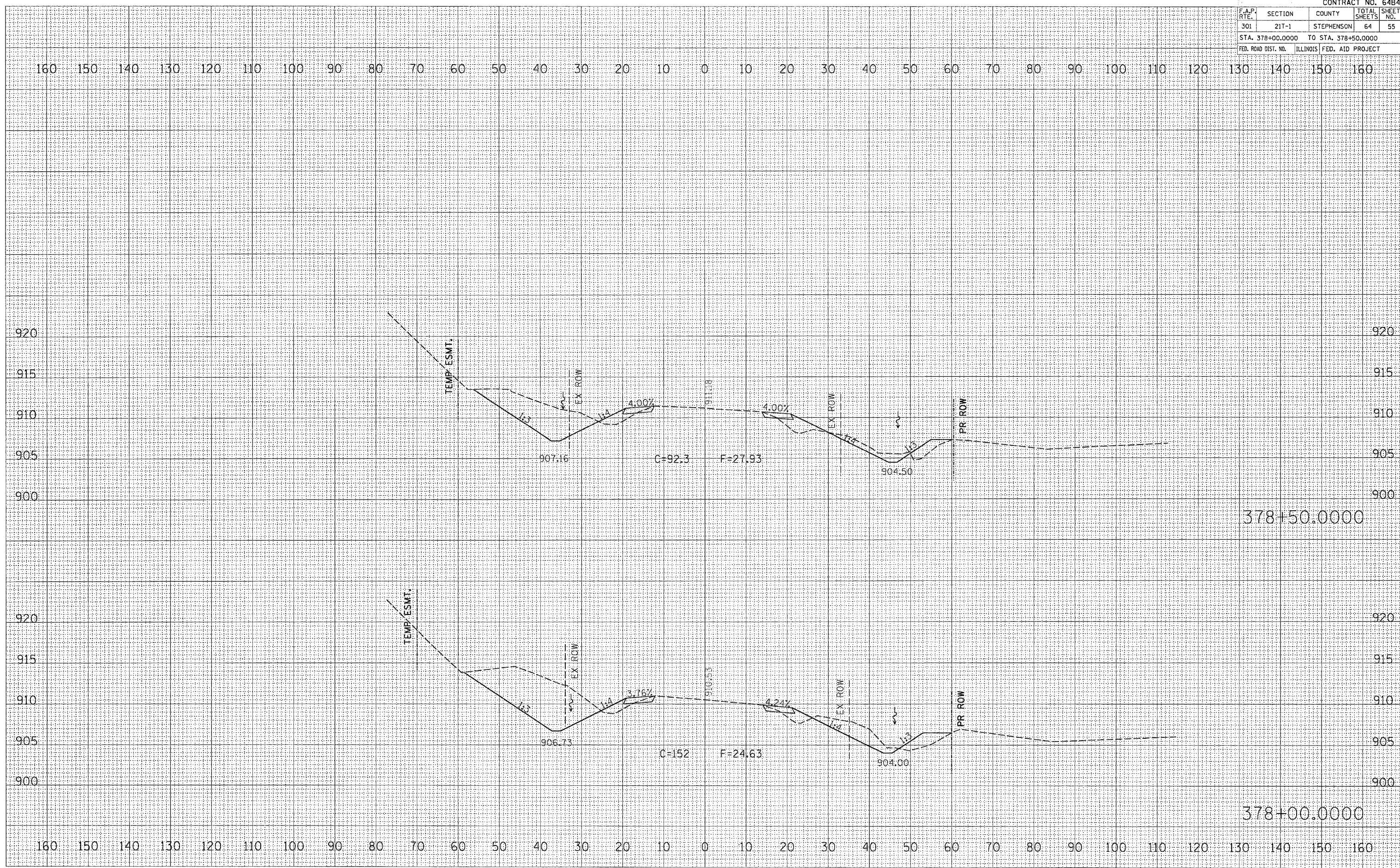


F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
301	21T-1	STEPHENSON	64	55
STA. 378+00.0000 TO STA. 378+50.0000				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

DATE	
BY	
REVIEWED	
PLOTTED	
TEMPLATE	
AREAS CHECKED	
AREAS CHECKED	
NO.	

DATE	
BY	
REVIEWED	
PLOTTED	
TEMPLATE	
AREAS CHECKED	
AREAS CHECKED	
NO.	

PLOT DATE = Mon Dec 11 09:15:10 2006
 FILE NAME = c:\pwworkspace\11111111\11111111.dgn
 PLOT SCALE = 10.0000 / IN.
 USER NAME = pwworkspace



F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
301	21T-1	STEPHENSON	64	57
STA. 380+50.0000 TO STA. 381+50.0000				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

DATE	BY

NO.	AREAS CHECKED

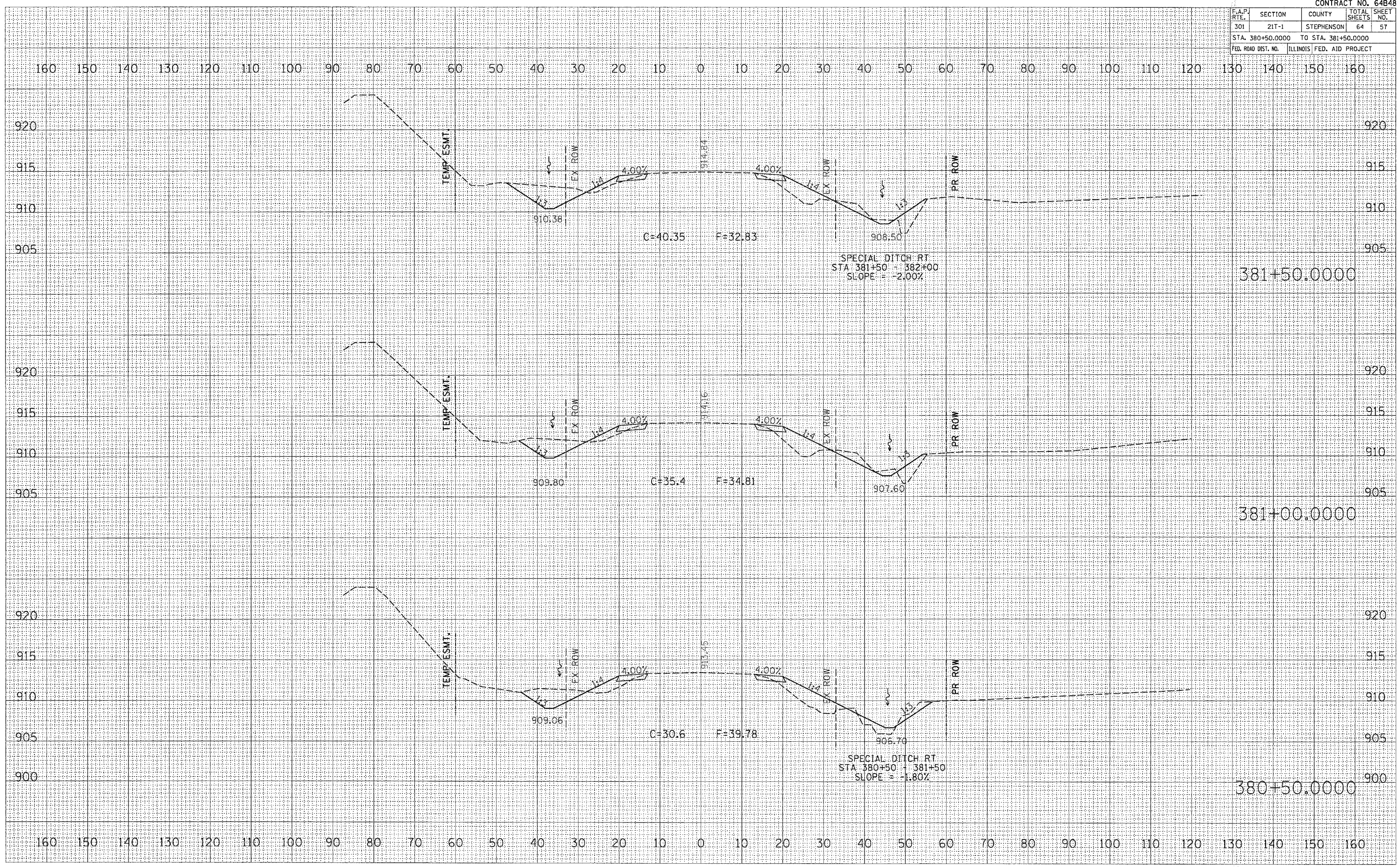
NO.	AREAS CHECKED

DATE	BY

NO.	AREAS CHECKED

NO.	AREAS CHECKED

PLOT DATE = Mon Dec 11 09:15:11 2006
 FILE NAME = c:\pwworkspace\11105\11105.dwg
 USER NAME = jn
 USER = jn

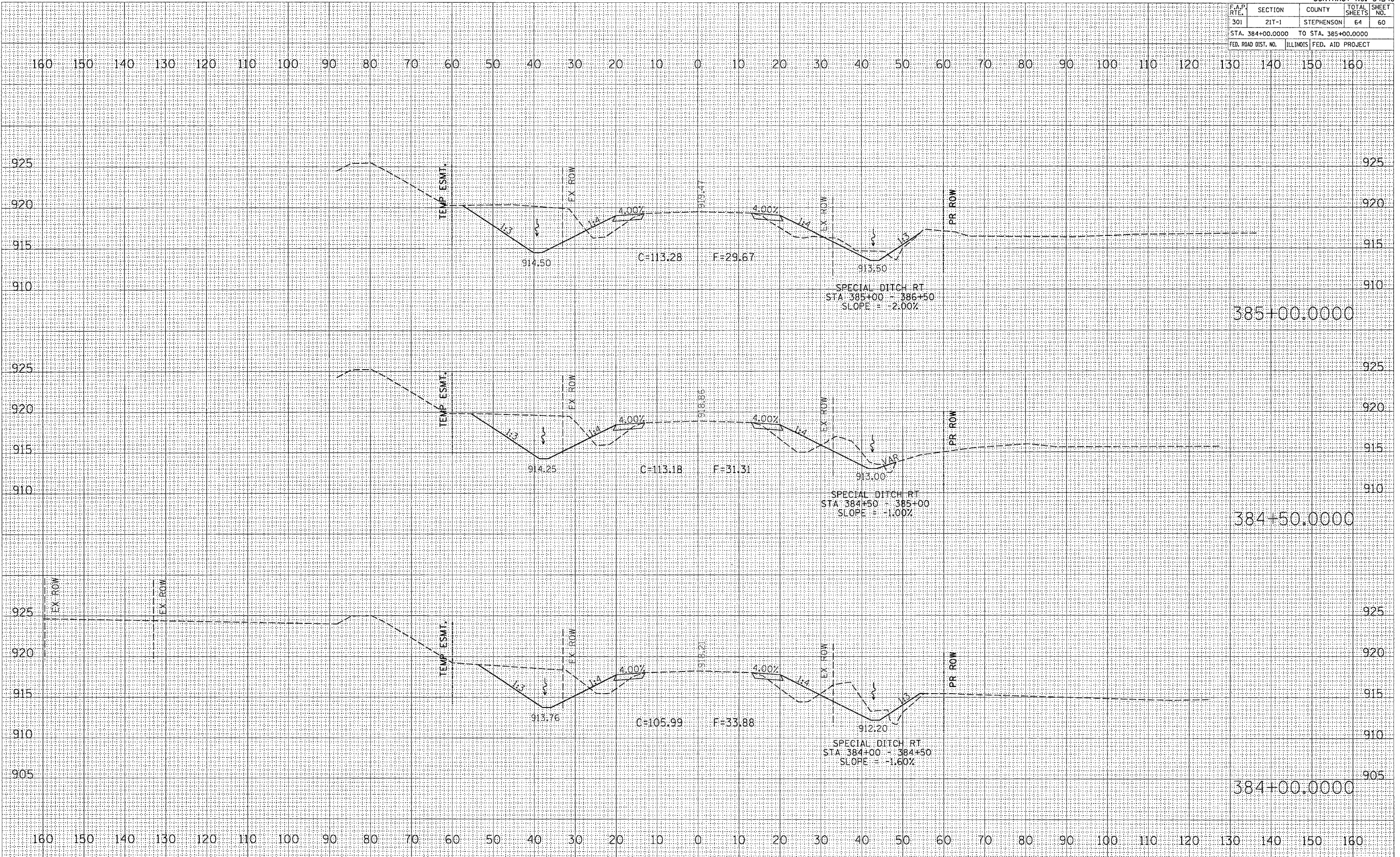


F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
301	21T-1	STEPHENSON	64	60
STA. 384+00.0000 TO STA. 385+00.0000				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

DATE _____
 BY _____
 SURVEYED _____
 CHECKED _____
 NOTE BOOK _____
 AREAS CHECKED _____
 NO. _____

DATE _____
 BY _____
 ORIGINAL SURVEY _____
 CHECKED _____
 NOTE BOOK _____
 AREAS CHECKED _____
 NO. _____

PLOT DATE = Mon Dec 11 09:54:32 2006
 FILE NAME = c:\pvc\msta\211105\dl1105.mxd
 PLOT SCALE = 18.0000 / IN.
 USER NAME = rpk@esl.j



F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
301	21T-1	STEPHENSON	64	62
STA. 387+00.0000 TO STA. 387+50.0000				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

BY: _____ DATE: _____

FINAL SURVEY PLOTTED AREAS CHECKED

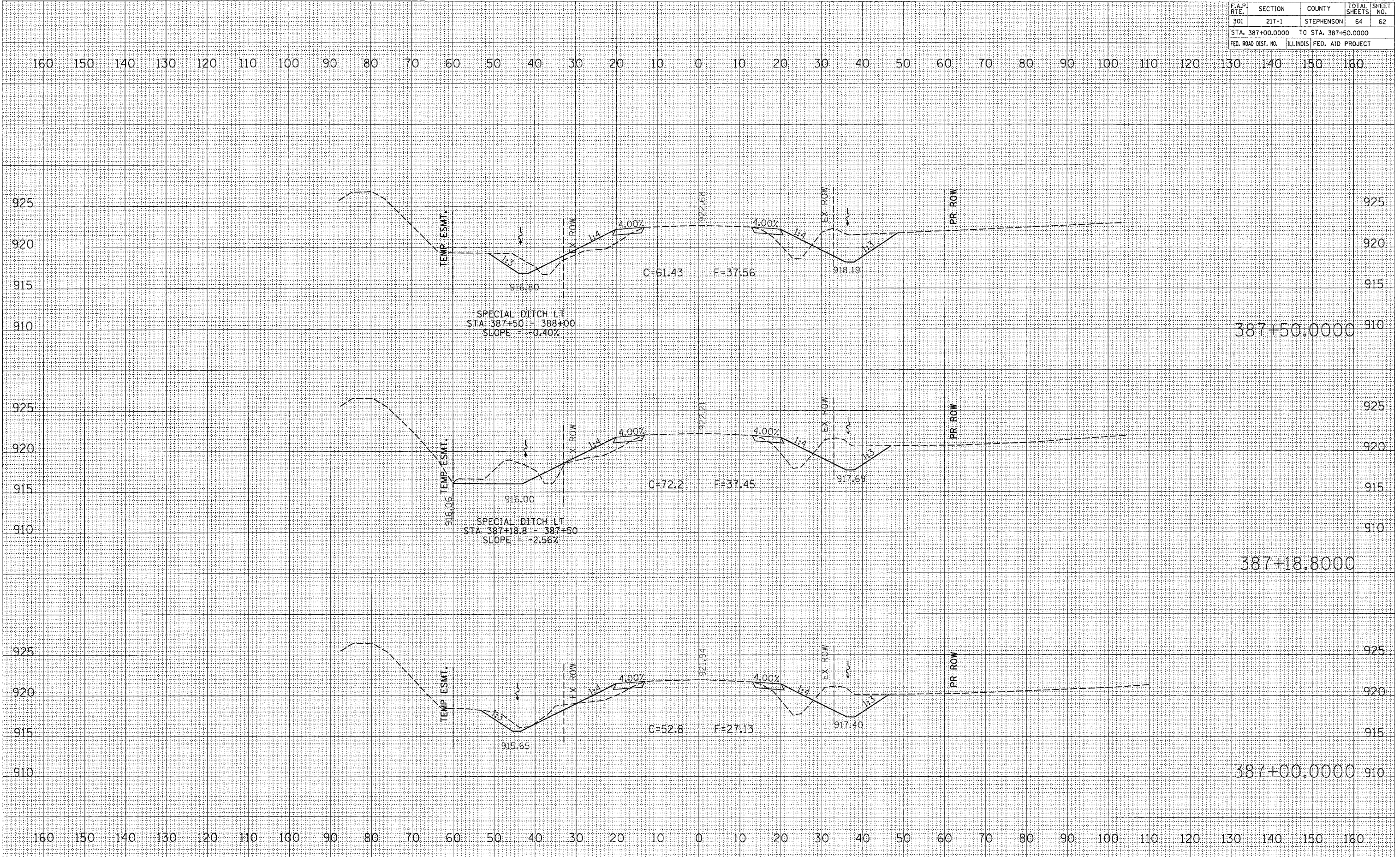
NO. _____

BY: _____ DATE: _____

ORIGINAL SURVEY PLOTTED AREAS CHECKED

NO. _____

PLOT DATE = Mon Dec 11 09:51:03 PM
 FILE NAME = c:\p1105\21105\out105.mpl.dgn
 PLOT SCALE = 10.0000 / IN.
 USER NAME = rehtal



F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
301	21T-1	STEPHENSON	64	63
STA. 388+00.0000 TO STA. 389+00.0000				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

BY: _____ DATE: _____

FINAL SURVEY PLOTTED DATE: _____

NOTE BOOK NO. _____

AREAS CHECKED: _____

BY: _____ DATE: _____

ORIGINAL SURVEY PLOTTED DATE: _____

NOTE BOOK NO. _____

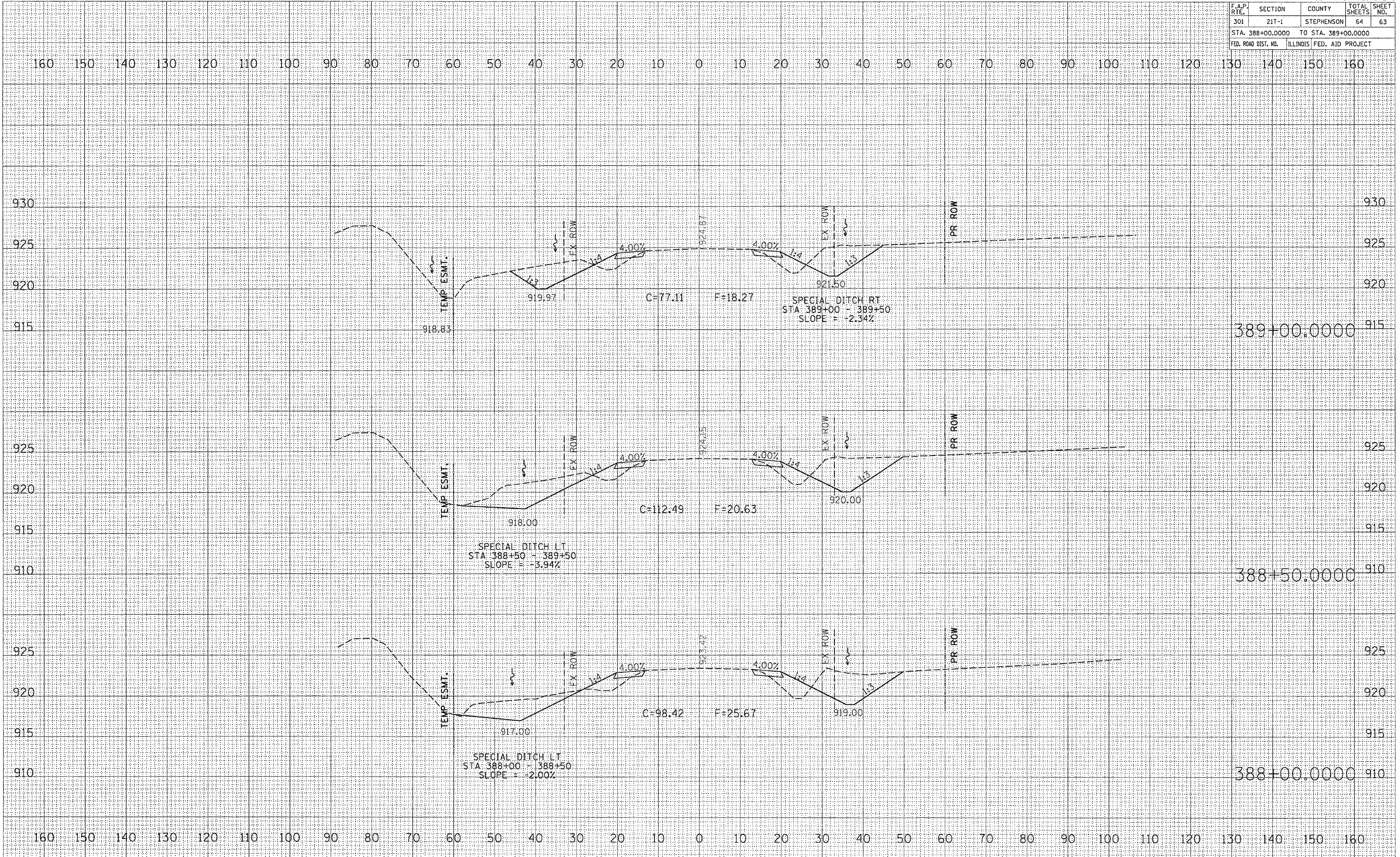
AREAS CHECKED: _____

PLOT DATE = Mon Dec 11 09:51:15 2006

FILE NAME = 21T-1-63.dwg

PLOT SCALE = 1/8" = 20'

USER NAME = rnk



F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
301	21T-1	STEPHENSON	64	64
STA. 389+50.0000		TO STA. 391+00.0000		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

DATE	
BY	
NO.	
FINAL SURVEY	
NOTE BOOK	
AREAS CHECKED	

DATE	
BY	
NO.	
ORIGINAL SURVEY	
NOTE BOOK	
AREAS CHECKED	

PLOT DATE: Mon Dec 11 09:54:24 2006
 FILE NAME: c:\p\projects\21185\dl185\m\lgn
 PLOT SCALE: 1"=100'
 USER NAME: frankesj

