

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
549	117 T	OGLE	86	1

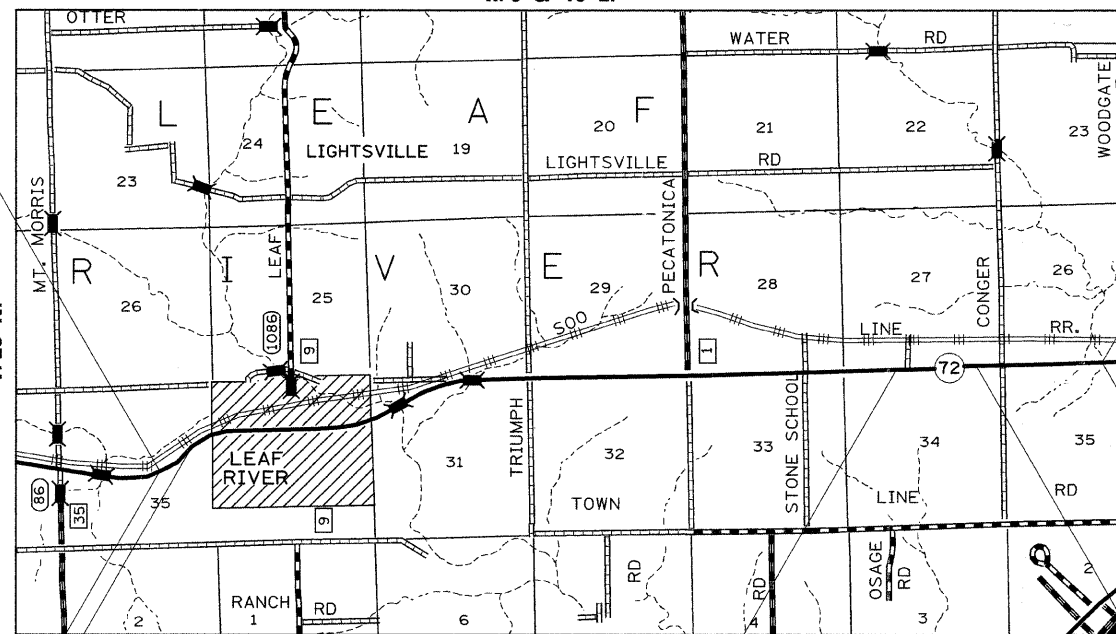
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS
**PROPOSED
HIGHWAY PLANS**

FAP ROUTE 549 (IL 72)
SECTION 117 T
PROJECT ACF-0549(010)
OGLE COUNTY

FOR INDEX OF SHEETS, SEE SHEET NO. 2

C92-040-07

R. 9 & 10 E.



STA 803+63.39
EXISTING S.N. 071-1027
PROPOSED S.N. 071-1146

IMPROVEMENT BEGINS
STA 801+50

STA 812+63.35
EXISTING S.N. 071-1026
PROPOSED S.N. 071-1145

STA 1056+26.39
EXISTING S.N. 071-1019
PROPOSED S.N. 071-1144

IMPROVEMENT ENDS
STA 1128+00

STA 1125+82.00
EXISTING S.N. 071-1017
PROPOSED S.N. 071-1142

STA 1081+12.65
EXISTING S.N. 071-1018
PROPOSED S.N. 071-1143



LOCATION OF SECTION INDICATED THIS: - [Symbol]

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

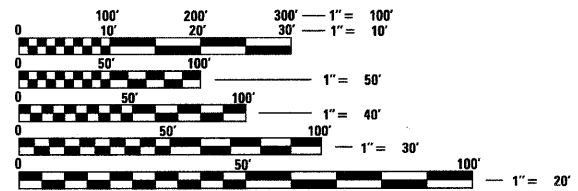
SUBMITTED October 9th 20 07
George F. Ryan
DEPUTY DIRECTOR OF HIGHWAYS, REGION ENGINEER

February 1, 20 08
Eric E. Harrel
INTERIM ENGINEER OF DESIGN AND ENVIRONMENT

February 1, 20 08
Christine M. Reed
DIRECTOR OF HIGHWAYS, CHIEF ENGINEER

PRINTED BY THE AUTHORITY
OF THE STATE OF ILLINOIS

DISTRICT 2, DIXON



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

LEAF RIVER TOWNSHIP, SECTION 35
BYRON TOWNSHIP, SECTIONS 26, 27, 34, & 35
CONTRACT NO. 64B44

GROSS LENGTH OF PROJECT = 292.02 FT = .0553 MILES
NET LENGTH OF PROJECT = 292.02 FT = .0553 MILES

PROJECT ENGINEER: MASOOD AHMAD (815) 284-5944
SQUAD LEADER: AHMAD EL-AHMAD (815) 284-5944

INDEX OF SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
549	117 T	OGLE	86	2
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

INDEX OF SHEETS

1	Cover Sheet
2	Index of Sheets
3 - 5	Summary of Quantities
6 - 7	General Notes
8 - 14	Typical Sections
15 - 18	Staging Typical
19 - 27	Schedule of Quantities
28 - 30	Horizontal and Vertical Control
31 - 35	Plan and Profile Sheets
36 - 39	Staging Details
40 - 44	Erosion Control, Seeding, & R.O.W. Details
45	Sheet Piling Details
46	Entrance Detail
47 - 52	Drop Structure Details
53 - 59	Boring Log Sheets
60	Delineator and Post Orientation (Dist Std 37.4)
60	Informational Warning Sign (For Narrow Travel Lanes) (Dist Std 39.4)
60	Typical Benching Detail on Existing Embankment (Dist. Std 50.4)
60	Reference Section & Reference Markers (Dist Std 63.4)
61	Lettering for Name Plate (Dist Std 89.4)
61	Tree Replacement Schedule(90.4)
61	Stop Line Sign for Temporary Signals (Dist Std 99.4)
62	Erosion Control Details for Silt Fence (Dist Std 29.2)
62	Field Tile Junction Vaults 2' & 3' Dia. (Dist Std 30.2)
63	Witness Marker & Permanent survey Markers, Type II (Dist Std 66.2)
63	Entrance Sign for use with Temporary Signals (Dist Std 75.2)
64	Precast Reinforced Concrete Arch Diameter Flared End Section (Dist Std 86.2)
65	Storm Water Pollution Prevention Plan Erosion Control Plan (Dist Std 2.1)
66	Hot-Mix Asphalt approaches & Mail Box Returns (Dist Std 20.1)
67 - 68	Typical Pavement Markings (Dist Std 41.1)
69	Detail of Precast Concrete Box Culverts and End Sections (Dist Std 71.1)
70	Grating for Arch Diameter Concrete Flared End Section (for 42",48" & 54" pipe) (Dist Std 87.1)
71	Details of Planting and Bracing Tree Replacement Schedule (Dist Std 92.1)
72 - 86	Cross Sections

HIGHWAY STANDARDS

000001	- 05	Standard Symbols, Abbreviations, and Patterns
280001	- 04	Temporary Erosion Control Systems
406201	- 01	Mailbox Turnout
420001	- 07	Pavement Joints
420701	- 02	Pavement Fabric
442201	- 03	Class C & D Patches
515001	- 02	Name Plates for Bridges
542401		Metal End Sections for Pipe Culverts
635011	01	Reflective marker and Mounting Details
665001	- 01	Fence, Woven Wire
666001		Right-Of-Way Markers
667101		Permanent Survey Markers
701201	- 02	Typical Application of Traffic Control Standard
701311	- 02	Lane Closure, 2L, 2W, Moving -Day Only
701321	- 09	Typical Application of Traffic Control Standard
701326	- 02	Typical Application of Traffic Control Standard
701901		Traffic Control Devices
704001	- 04	Temporary Concrete Barrier
720011		Metal Posts for Signs, Markers & Delineators
780001	01	Typical Pavement Markings
728001		Telescoping Steel Sign Support
729001		Application Types A and B Metal Posts (for signs and markers)
886001		Detector Loop Installations
886006		Typical Layout for Detection Loops

PLOT DATE = Fri, Dec 28 13:52:48 2007
 FILE NAME = c:\p\projects\p218785\087050vvr.dgn
 PLOT SCALE = 65.0000 / IN.
 USER NAME = gprjtl

REVISIONS		ILLINOIS DEPARTMENT OF TRANSPORTATION
NAME	DATE	
		SCALE: VERT. _____ DATE _____ DRAWN BY _____ CHECKED BY _____

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
549	117 T	OGLE	86	4
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

SUMMARY OF QUANTITIES

CODE NUMBER	ITEM	UNITS	TOTAL QUANTITY	80% Federal 20% State Y007
50100400	REMOVAL OF EXISTING STRUCTURES NO. 2	EACH	1	1
50100500	REMOVAL OF EXISTING STRUCTURES NO. 3	EACH	1	1
50100600	REMOVAL OF EXISTING STRUCTURES NO. 4	EACH	1	1
50100700	REMOVAL OF EXISTING STRUCTURES NO. 5	EACH	1	1
50105200	REMOVE EXISTING CULVERTS	EACH	2	2
51205200	TEMPORARY SHEET PILING	SQ FT	6441	6441
51500100	NAME PLATES	EACH	5	5
54001002	BOX CULVERT END SECTIONS, CULVERT NO. 2	EACH	2	2
54001003	BOX CULVERT END SECTIONS, CULVERT NO. 3	EACH	1	1
54001004	BOX CULVERT END SECTIONS, CULVERT NO. 4	EACH	1	1
54001005	BOX CULVERT END SECTIONS, CULVERT NO. 5	EACH	2	2
54010605	PRECAST CONCRETE BOX CULVERT 6' X 5'	FOOT	109	109
54010704	PRECAST CONCRETE BOX CULVERT 7' X 4'	FOOT	123.5	123.5
54010804	PRECAST CONCRETE BOX CULVERT 8' X 4'	FOOT	236	236
54010806	PRECAST CONCRETE BOX CULVERT 8' X 6'	FOOT	95	95
54207807	PIPE CULVERTS, TYPE 1, CORRUGATED STEEL OR ALUMINUM, EQUIVALENT ROUND-SIZE 42"	FOOT	114	114
54200223	PIPE CULVERTS, CLASS D, TYPE 1 18"	FOOT	68	68
54200241	PIPE CULVERTS, CLASS D, TYPE 1 36"	FOOT	47	47
54213063	PIPE CULVERTS, TYPE 3, REINFORCED, CONC. - ARCH, EQUIVALENT, ROUND-SIZE 48"	FOOT	118	118
54213453	END SECTIONS 18"	EACH	1	1
54213471	END SECTIONS 36"	EACH	2	2
54214317	END SECTIONS, EQUIVALENT ROUND-SIZE 42"	EACH	4	4
54214953	PRECAST REINFORCED CONCRETE FLARED END SECTIONS-ARCH, EQUIVALENT ROUND-SIZE 48"	EACH	4	4
54210024	PIPE CULVERTS, CLASS D, TYPE 1 24" (TEMPORARY)	FOOT	390	390
54248180	GRATING FOR CONCRETE FLARED END SECTION EQUIVALENT ROUND-SIZE 48"	EACH	4	4
61100500	EXPLORATION TRENCH 52' DEPTH	FOOT	60	60
61133100	FIELD TILE JUNCTION VAULTS, 2' DIA.	EACH	1	1
63200310	GUARDRAIL REMOVAL	FOOT	1550	1550
63500105	DELINEATORS	EACH	10	10
66500105	WOVEN WIRE FENCE, 4'	FOOT	500	500
66600105	FURNISHING AND ERECTING RIGHT-OF-WAY MARKERS	EACH	37	37

PLOT DATE = Fri Dec 28 14:22:19 2007
 FILE NAME = c:\proj\joe\y210705\dl0705wr.dgn
 PLOT SCALE = 50.0000 / IN.
 USER NAME = gortj

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
549	117 T	OGLE	86	5
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	

SUMMARY OF QUANTITIES

CODE NUMBER	ITEM	UNITS	TOTAL QUANTITY	80% Federal 20% State Y007
66700305	PERMANENT SURVEY MARKERS, TYPE II	EACH	5	5
67000400	ENGINEER'S FIELD OFFICE, TYPE A	CAL MO	6	6
67100100	MOBILIZATION	L SUM	1	1
70100405	TRAFFIC CONTROL AND PROTECTION, STANDARD 701321	EACH	1	1
70100450	TRAFFIC CONTROL AND PROTECTION, STANDARD 701201	L SUM	1	1
70100500	TRAFFIC CONTROL AND PROTECTION, STANDARD 701326	L SUM	1	1
70103815	TRAFFIC CONTROL SURVEILLANCE	CAL DA	10	10
70106500	TEMPORARY BRIDGE TRAFFIC SIGNALS	EACH	8	8
70106700	TEMPORARY RUMBLE STRIP	EACH	24	24
70300520	PAVEMENT MARKING TAPE, TYPE III 4'	FOOT	10476	10476
70300570	PAVEMENT MARKING TAPE, TYPE III 24'	FOOT	192	192
70301000	WORK ZONE PAVEMENT MARKING REMOVAL	SQ FT	4139	4139
70400100	TEMPORARY CONCRETE BARRIER	FOOT	1758	1758
70400200	RELOCATE TEMPORARY CONCRETE BARRIER	FOOT	1097	1097
* 78001110	PAINT PAVEMENT MARKING - LINE 4'	FOOT	17113	17113
* B2004814	^{TREE} MALUS SARGENTII (SARGENT CRABAPPLE) 13/4" CALIPER, TREE FORM, BALLED AND BUR LAPPED	EACH	15	15
* B2005014	^{TREE} MALUS SNOWDRIFT (SNOWDRIFT CRABAPPLE), 13/4" CALIPER, TREE FORM, BALLED AND BUR LAPPED	EACH	15	15
* X0322352	SEEDING MOBILIZATION	EACH	5	5
X0323662	DROP BOX NO. 3	EACH	1	1
X0323663	DROP BOX NO. 4	EACH	1	1
X0323664	DROP BOX NO. 5	EACH	1	1
X0323988	TEMPORARY SOIL RETENTION SYSTEM	SQ FT	974	974
XX003404	TEMPORARY PAVEMENT, 8"	SQ YD	1602	1602
Z0005400	BREAKER-RUN CRUSHED STONE	TON	515	515
Z0013798	CONSTRUCTION LAYOUT	L SUM	1	1
* Z0030070	IMPACT ATTENUATORS (SEVERE USE, NARROW), TEST LEVEL 3	EACH	1	1
* Z0030250	IMPACT ATTENUATORS, TEMPORARY (NON - REDIRECTIVE), TEST LEVEL 3	EACH	8	8
* Z0030350	IMPACT ATTENUATORS, RELOCATE (NON- REDIRECTIVE), TEST LEVEL 3	EACH	7	7
Z0048665	RAILROAD PROTECTIVE LIABILITY INSURANCE	L SUM	1	1
Z0020900	ESTABLISHING AND REFERENCING LAND SECTION MARKERS	EACH	1	1
Z0075310	TIE BARS 3/4"	EACH	266	266

*SPECIALTY ITEMS

PLOT DATE = Fri Dec 28 14:23:28 2007
 FILE NAME = c:\paw\mca\207065\dlb7060r.dgn
 PLOT SCALE = 1/8"=1'-0"
 USER NAME = goffj

GENERAL NOTES

ROUTE NO.	SEC.	COUNTY	TOTAL SHEETS	SHEET NO.
FAP 549 (IL 72)	117T	Ogle	86	6
FED ROAD DIST. NO.	ILLINOIS	PROJECT		
Contract #64B44				

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 CLASS C PATCHES of the type specified.

It is estimated that 2,417 cubic yards of earth will be hauled to the job from outside the project limits. A shrinkage factor of 25% has been used.

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.

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 proposed across road culverts and existing across road culverts that are removed 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. All material shall be granular instead of fine sand.

Except for the top 75 mm (3"), all aggregate bases and subbases 300 mm (12") in thickness shall be constructed of aggregate gradation CA-2. If the specified thickness exceeds 300 mm (12"), the bases or subbases shall be constructed of topsize 150 mm (6") breaker-run crushed stone with 70% to 90% by weight, passing the 4" sieve and 15% to 40% by weight, passing the 50 mm (2") size sieve, except for the top 75 mm (3"). The breaker-run crushed stone shall be reasonably uniformly graded from coarse to fine and be taken from a quarry ledge capable of producing Class "D" quality aggregate. The top 75 mm (3") shall be gradation CA-6 or CA-10 regardless of thickness. The water necessary to achieve compaction in all but the top 75 mm (3") layer may be added after the subbase or base course is placed on the grade.

All mandatory joint sealing for Class C 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.

Cost of removal and disposal of material from the temporary patch, including the Aggregate Base Course, Type B, for the temporary patch, shall be included in AGGREGATE BASE COURSE, TYPE B.

Resident Engineer shall have decide to leave Temporary Pavement, 8" in place at the end of each staging to be used as part of the shoulders, An aggregate wedge shall be built to maintain 7' wide shoulders at these locations.

A quantity of PIPE CULVERT, Class D, Type 1 24" (Temporary) has been included in the contract plans to maintain flow of existing drainage during stage construction.

The following Mixture Requirements are applicable for this project:

Mixture Uses(s):	Incidental	Temporary Pavement	Surface
PG:	PG 64-22	PG 64-22	PG 64-22
Design Air Voids	4.2 @ N50	4.2 @ N50	4.2 @ N50
Mixture Composition (Gradation Mixture)	IL 9.5 or 12.5	IL 9.5	IL 9.5 or 12.5
Friction Aggregate	C	N/A	C
20 Year ESAL	N/A	0.6	0.6

The contractor shall save existing 4' concrete shoulders at Box #2 location, between Lt. Sta. 812+12.6 to 813+36.56 and Rt. Sta. 811+52.99 to 813+77.19 during construction. Resident Engineer will determine if any portion of these shoulders needs to be removed if disturbed by construction.

Bituminous and Aggregate prime coat shall be placed in accordance with Section 406 of the Standard Specifications. The cost of the prime coats shall be included in the contract unit price per metric ton (ton) for INCIDENTAL HOT-MIX ASPHALT SURFACING.

The new numbers for this structure will be:	<u>STRUCTURE NUMBER</u>	<u>STRUCTURE LOCATION</u>
	071-1146	Station 803+63.39 (Box #1)
	071-1145	Station 812+63.35 (Box #2)
	071-1144	Station 1056+26.39 (Box #3)
	071-1143	Station 1081+12.65 (Box #4)
	071-1142	Station 1125+82 (Box #5)

The contractor shall submit four copies of the required shop drawings for review and approval to the Bureau of Bridges and Structures, 2300 South Dirksen Parkway, Springfield, IL 62764. After approval of initial submittal, the contractor shall submit one set of shop drawings to Dave Lippert, Engineer of Materials, 126 East Ash Street, Springfield, IL 62706, and eight (8) sets of shop drawings to be distributed to:

District 2 District Engineer (1)
 Fabricator (1)
 Contractor (2)
 Resident Engineer (2)
 District 2 Bureau of Materials (2)

The review and approval of temporary sheet piling 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 Precast 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.

Box culverts that are stage constructed and undercut by more than 600 mm (2 feet) shall have lean concrete placed on the rock fill at the stage line. The concrete shall retain the rock fill until the second stage rock fill is placed. This work will be included in the pay item for the type of rock fill used.

The contractor shall remove and replace Box No. 1 Sta. 803+63 using flaggers. All work shall be completed prior to staging at Box Culvert No. 2 Sta. 812+63.

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

GENERAL NOTES

ROUTE NO.	SEC.	COUNTY	TOTAL SHEETS	SHEET NO.
FAP 549 (IL 72)	117T	Ogle	86	7
FED ROAD DIST. NO.	ILLINOIS	PROJECT		

Contract #64B44

The portion of the existing Type A Gutter Rt. Sta. 1054+30.77 to 1055+21.52 and Lt. Sta. 1054+89.96 to 1055+25.32 shall be filled with Hot-Mix Asphalt while building the Temporary Pavement. Type A Gutter shall be cleaned out of this mix when staging is complete. All work involved shall be included in the unit price of TEMPORARY PAVEMENT, 8".

If there is not enough right-of-way to plant the mitigated trees on this project, trees shall be planted along FAI 39 northbound, east side between MP 111 and MP 112 in Ogle County. The Contractor shall contact Richard Maggi of District 2 at 815/248-5404.

In Stage I, for Box Culvert Sta. 812+63, the IMPACT ATTENUATOR at the entrance shall be narrow.

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

If, during the grinding or resurfacing operations, the existing mailboxes become a hindrance, the Contractor shall be required to carefully remove and reinstall the mailboxes as directed by the Engineer. This work shall be included in the contract unit price for the INCIDENTAL HOT-MIX ASPHALT SURFACING.

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.

Mitigated trees on this project shall be planted along FAI 30 northbound, east side, between MP 111 to MP 112 in Ogle County. Also,

1. Layout shall be performed by the District Landscape Architect (Richard Maggi 815/284-5404).
2. Mulch shall be hardwood chips, 5 foot width, 4 inches thick, with weed barrier fabric.

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: 5 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.

The Contractor shall begin fence erection as soon as clearing operations permit. Before removing existing fence from an area that contains livestock, the Contractor shall erect, along the proposed right of way lines, a temporary fence or wire meeting the approval of the Engineer. The Contractor shall concentrate his permanent fencing operations at these locations and at other specific locations as directed by the Engineer. The cost of arranging work as herein specified and erecting any temporary fencing will not be paid for as a separate item but shall be included in the contract unit price per Meter (Foot) for WOVEN WIRE FENCE.

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 Geotechnical Fabric and the CA 10 Aggregate used to build the PCC driveway pavement Rt. Sta. 1117+53 shall be incidental and included in the unit price of the PORTLAND CEMENT DRIVEWAY PAVEMENT, 8". The fabric shall be placed at the bottom and top of the CA 10 Aggregate.

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
Leaf River Telephone Co.

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.

<u>Tie the following to the existing concrete pavement</u>		<u>Length, size, and spacing of Tie Bars</u>
Gutter or Curb & Gutter	Std. 606001	600 mm (24") long No. 20 (No. 6) @ 600 mm (24") centers
PCC Base Course	Std. 353001	600 mm (24") long No. 20 (No. 6) @ 750 mm (30") centers
PCC Pavement	Std. 420101	600 mm (24") long No. 20 (No. 6) @ 750 mm (30") centers

Tie bars to be installed in accordance with the applicable portions of Article 420.05(b) of the Standard Specifications. See Highway Standard 420001 for detail on longitudinal construction joint grouted-in-place tie bar. The cost of the tie bars to be included in the cost of the PCC appurtenance adjacent to the existing pavement.

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.

No driveway shall be removed along IL 72 Rt. Sta. 1113+00 to 1125+82 unless the proposed field entrance at Rt. Sta. 1117+53 has been constructed.

Patching quantities are based on 1:1 slope as shown on the plan and profile sheets, as required by Occupational Safety and Health Administration (OSHA). Any extra quantities due to wider cut by the contractor shall be at his own expense.

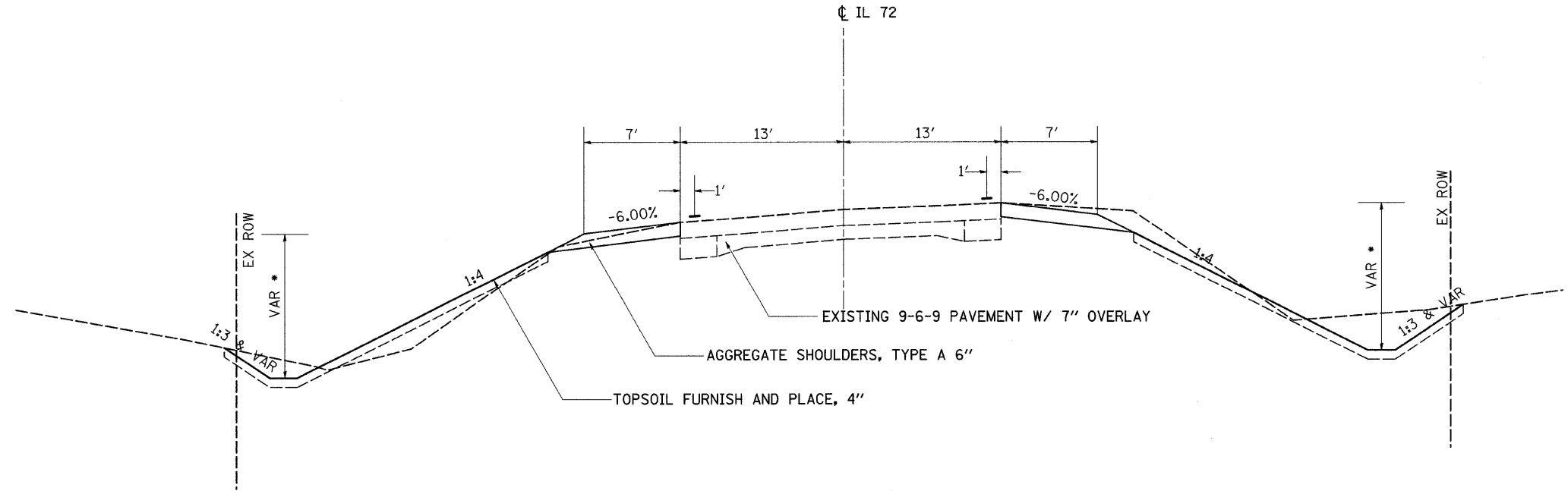
Program #5
(Arch. Size)
Enlarge
200%
Enlarge 107%

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
549	117 T	OGLE	86	8
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

TYPICAL SECTIONS

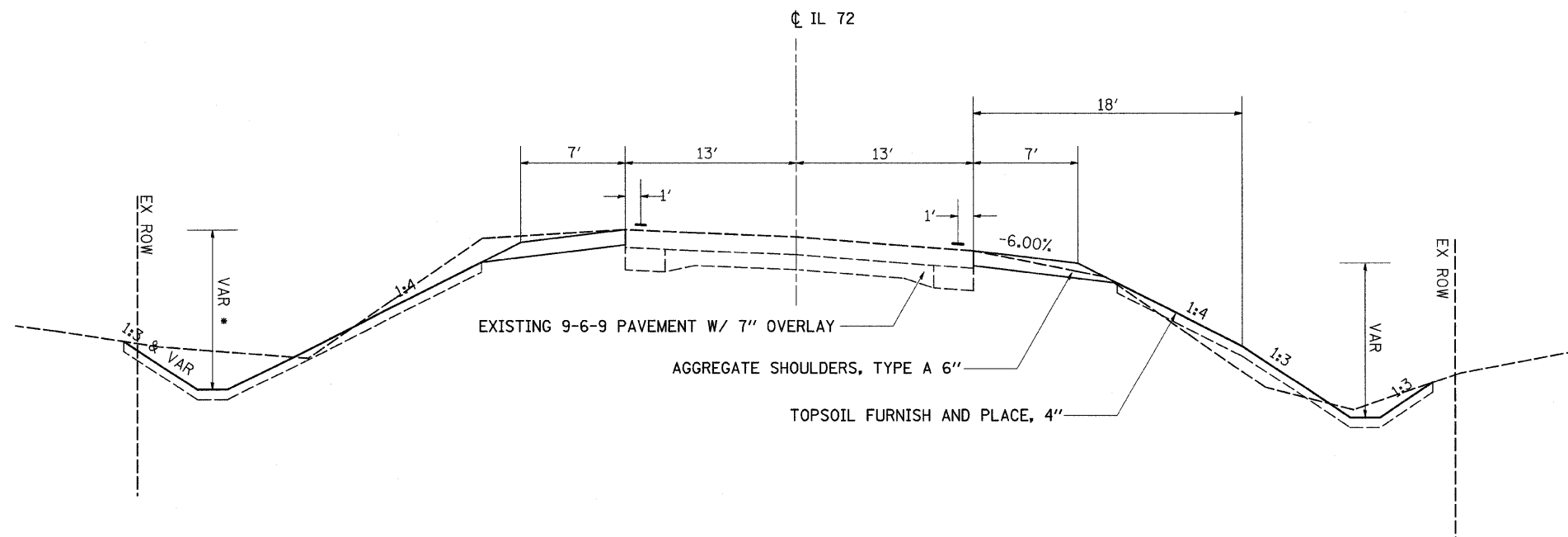
PROPOSED TYPICAL

- STA 802+00 - STA 803+50
- STA 804+50 - STA 805+00
- STA 810+00 - STA 812+00
- STA 812+63.35 - STA 813+00
- STA 1055+50 - STA 1058+00
- STA 1079+50 - STA 1083+00
- STA 1124+00 - STA 1127+50



PROPOSED TYPICAL

RT STA 803+50 - RT STA 804+50



- NO DITCH @ LT STA 812+63.35 - LT STA 813+00 &
- LT STA 1055+50 - LT STA 1058+00 & LT STA 1079+50
- LT STA 1083+00 & RT STA 1081+50 - RT STA 1083+00

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

SCALE: VERT.
HORIZ.
DATE

DRAWN BY
CHECKED BY

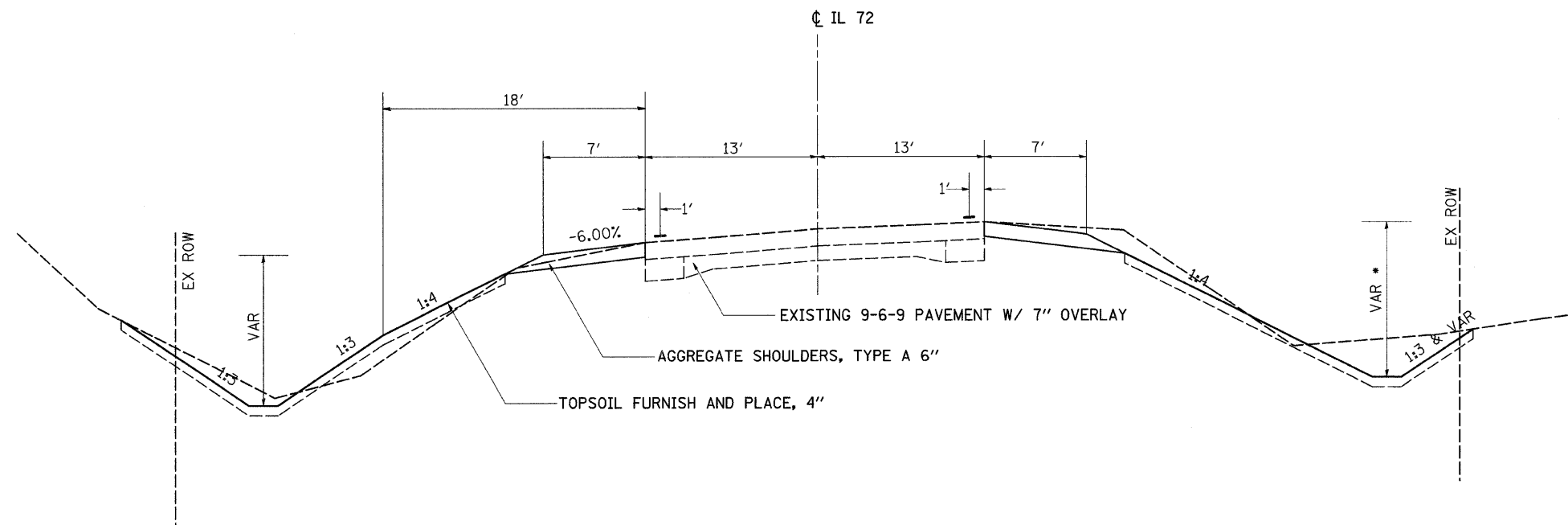
PLOT DATE = Fri Dec 28 13:53:38 2007
FILE NAME = c:\p\projects\117\11705\11705.dwg
PLOT SCALE = 50.0000 / IN.
USER NAME = geffj

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
549	117 T	OGLE	86	9
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

TYPICAL SECTIONS

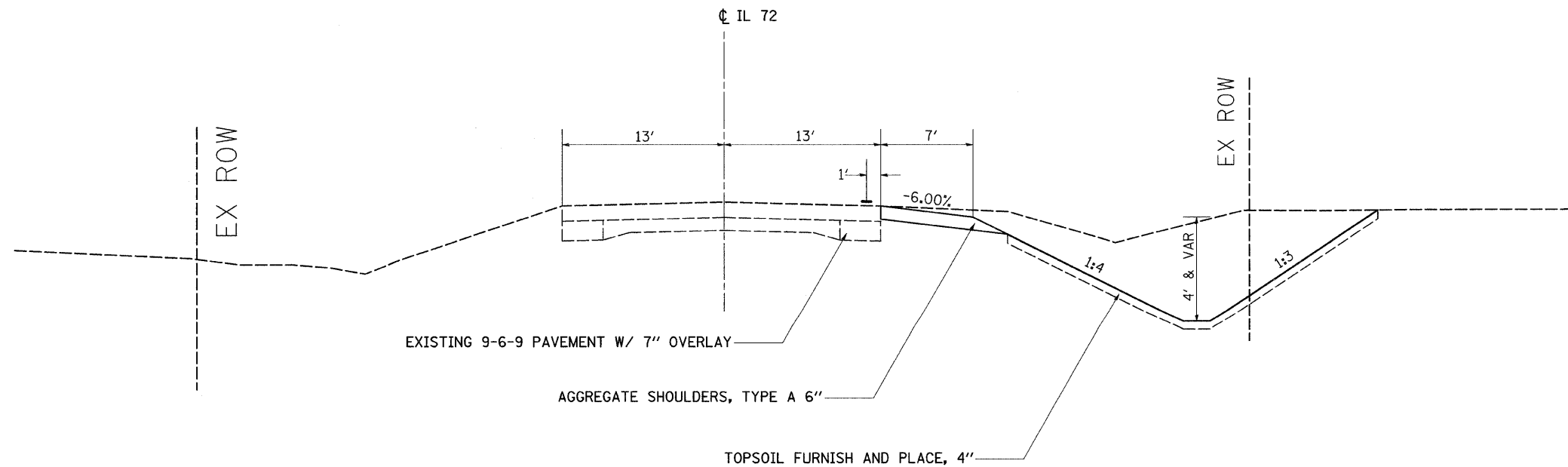
PROPOSED TYPICAL

LT STA 812+00 - LT STA 812+63.35



PROPOSED TYPICAL

STA 1113+50 - STA 1124+00



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

DRAWN BY
CHECKED BY

TYPICAL SECTIONS

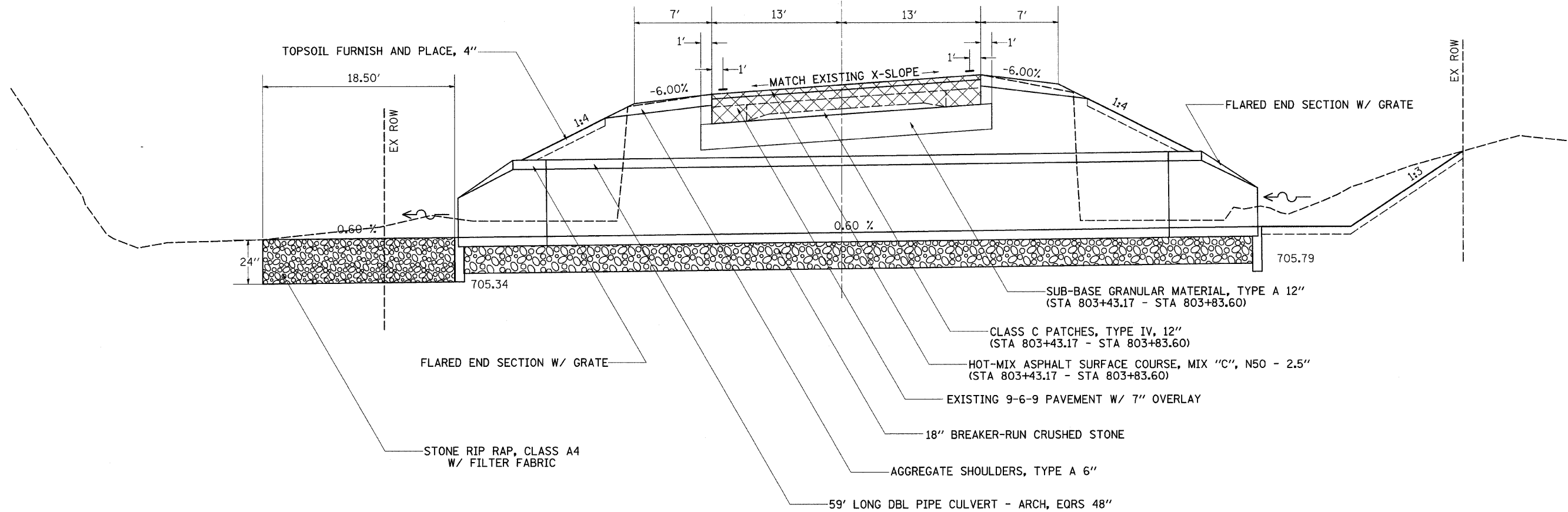
PLOT DATE = Fri Dec 28 13:53:08 2007
FILE NAME = c:\p\projects\117\11705_117705.tpd.dgn
PLOT SCALE = 50.0000' / IN.
USER NAME = gertj

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
549	117 T	OGLE	86	10
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

TYPICAL SECTIONS

PROPOSED CULVERT TYPICAL

STA 803+63.39
S.N. 071-1146
CL IL 72



REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

SCALE: VERT. _____
HORIZ. _____

DATE _____

DRAWN BY _____
CHECKED BY _____

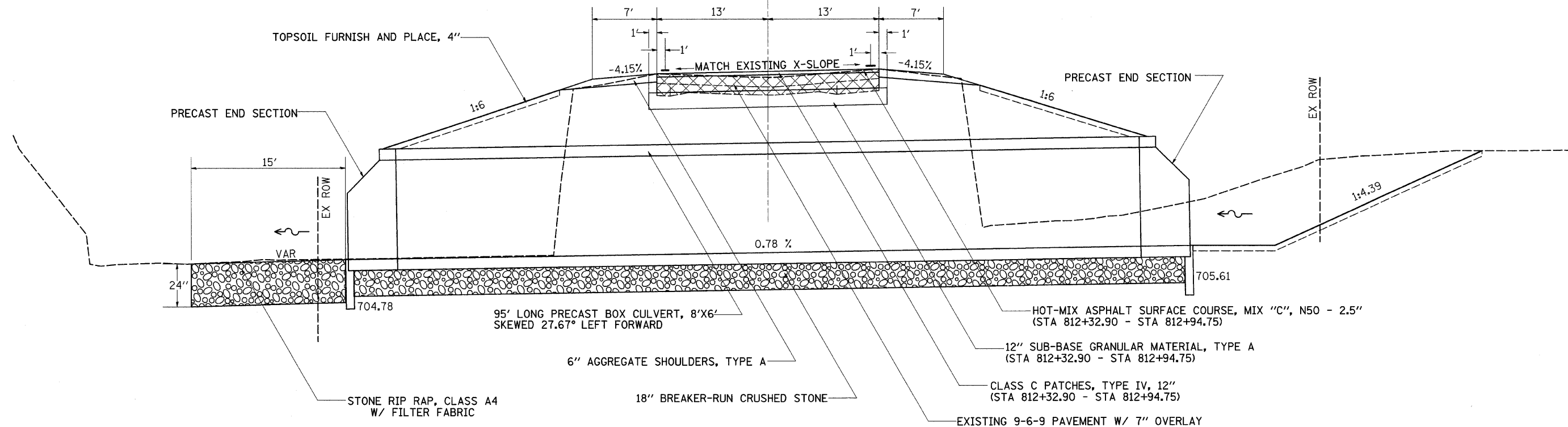
PLOT DATE = Fri Dec 28 13:53:47 2007
FILE NAME = c:\p\projects\117\11705\11705.dgn
PLOT SCALE = 1/8" = 1'-0"
USER NAME = gpf/jl

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
549	117 T	OGLE	86	11
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

TYPICAL SECTIONS

PROPOSED CULVERT TYPICAL

STA 812+63.35
S.N. 071-1145
Ø IL 72



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

PLOT DATE = Fri, Dec 28 13:45:34 2007
FILE NAME = c:\p\projects\10705\10705.dwg
PLOT SCALE = 5/8" = 1' IN.
USER NAME = gertj

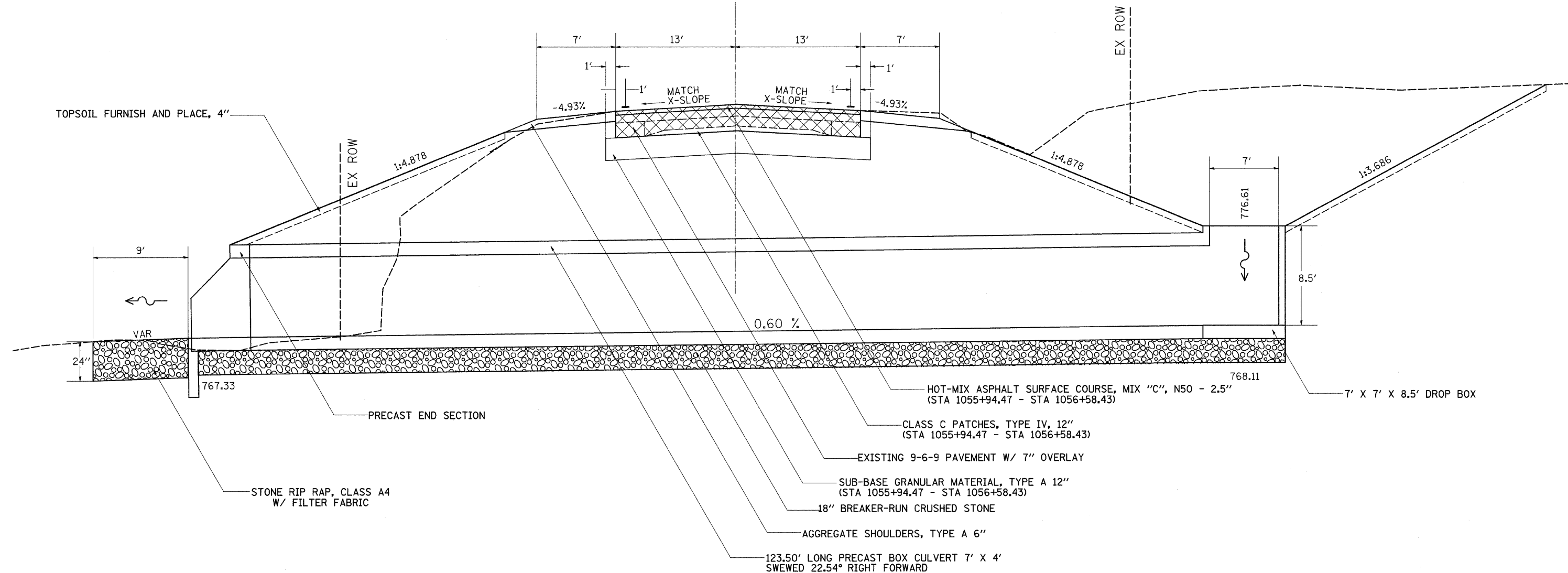
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
549	117 T	OGLE	86	12
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

TYPICAL SECTIONS

PROPOSED CULVERT TYPICAL

STA 1056+26.39
S.N. 071-1144

Ø IL 72



- HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N50 - 2.5" (STA 1055+94.47 - STA 1056+58.43)
- CLASS C PATCHES, TYPE IV, 12" (STA 1055+94.47 - STA 1056+58.43)
- EXISTING 9-6-9 PAVEMENT W/ 7" OVERLAY
- SUB-BASE GRANULAR MATERIAL, TYPE A 12" (STA 1055+94.47 - STA 1056+58.43)
- 18" BREAKER-RUN CRUSHED STONE
- AGGREGATE SHOULDERS, TYPE A 6"
- 123.50' LONG PRECAST BOX CULVERT 7' X 4' SWEWED 22.54° RIGHT FORWARD
- PRECAST END SECTION
- STONE RIP RAP, CLASS A4 W/ FILTER FABRIC

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

SCALE: VERT. DRAWN BY
 HORIZ. CHECKED BY
 DATE

PLOT DATE = Fri, Dec 28 13:45:34 2007
 FILE NAME = c:\p\projects\1056\1056.dwg
 PLOT SCALE = 1/8" = 1'-0"
 USER NAME = gertj

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
549	117 T	OGLE	86	13
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

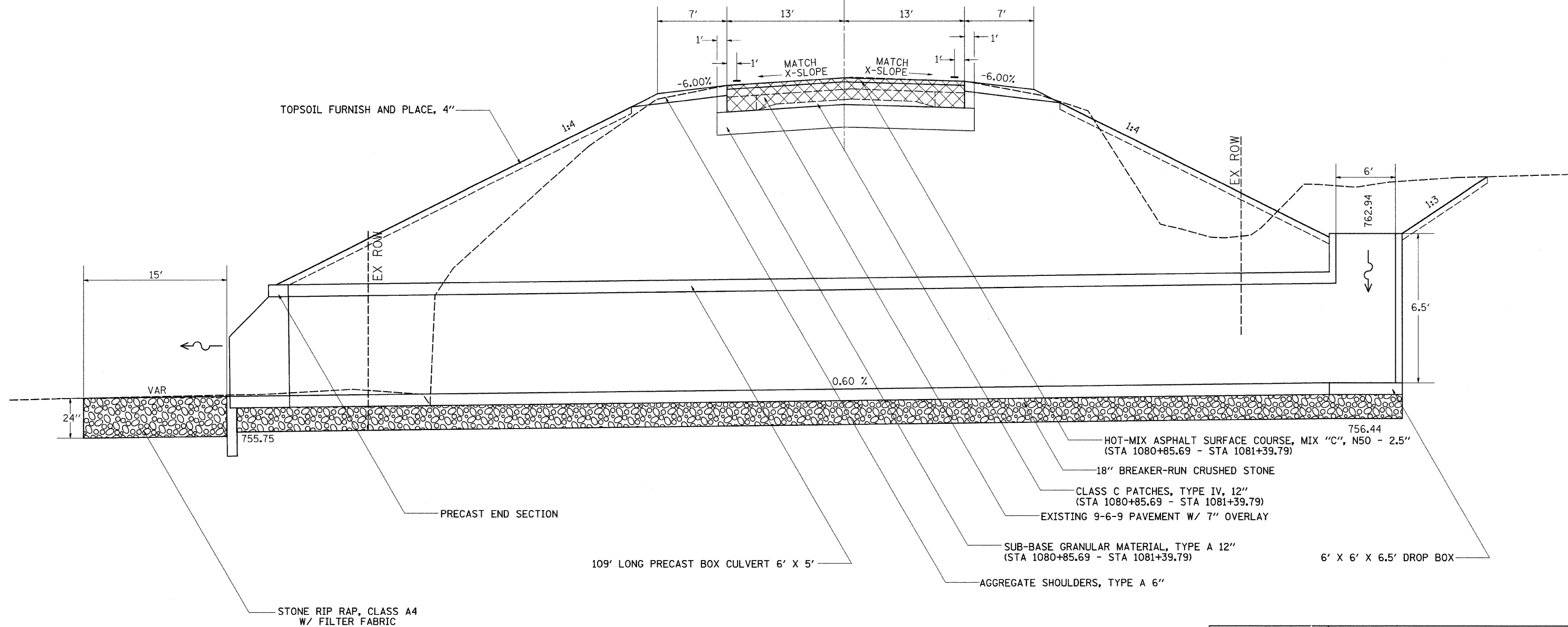
TYPICAL SECTIONS

PROPOSED CULVERT TYPICAL

STA 1081+12.65

S.N. 071-1143

Ø IL 72



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

PLOT DATE = Fri, Dec 28, 13:53:07, 2007
 FILE NAME = c:\projects\210705\10705.dgn
 PLOT SCALE = 80.0000 / 1"
 USER NAME = goff, j

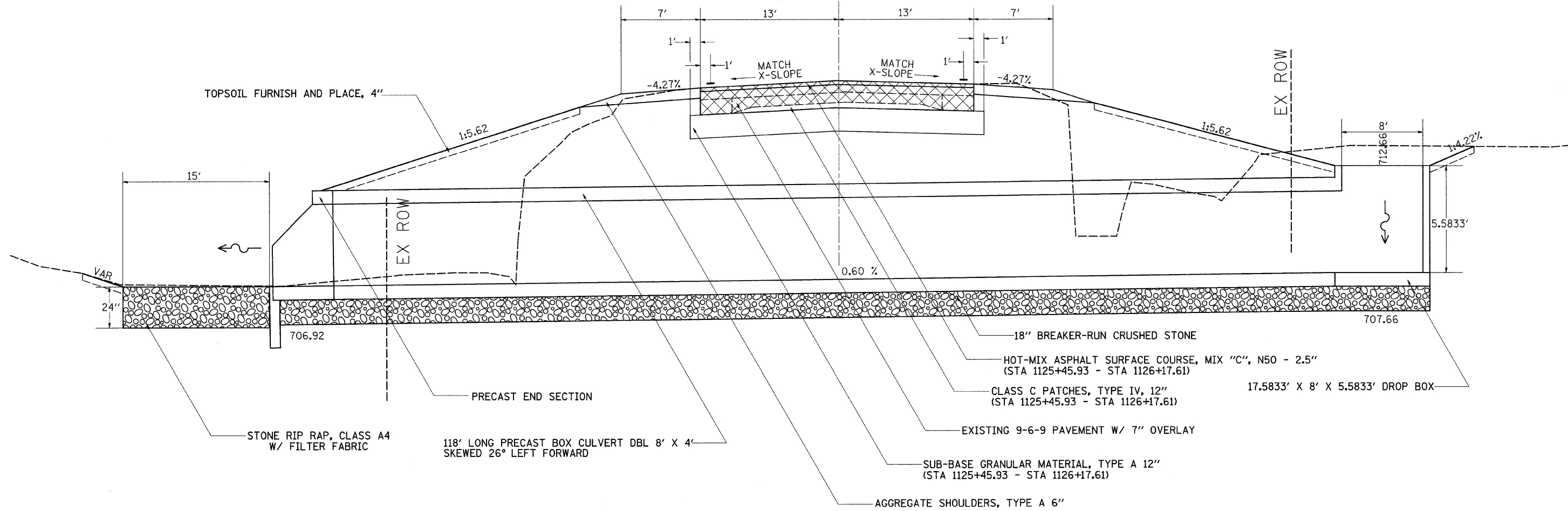
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
549	117 T	OGLE	86	14
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

TYPICAL SECTIONS

PROPOSED CULVERT TYPICAL

STA 1125+82.00
S.N. 071-1142

CL IL 72



PLOT DATE = Fri Dec 28 13:45:38 2007
FILE NAME = c:\pvc\projects\1125+82\1125+82.dwg
PLOT SCALE = 50.00000 / IN.
USER NAME = gertyj

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

SCALE: VERT. _____
HORIZ. _____

DATE _____

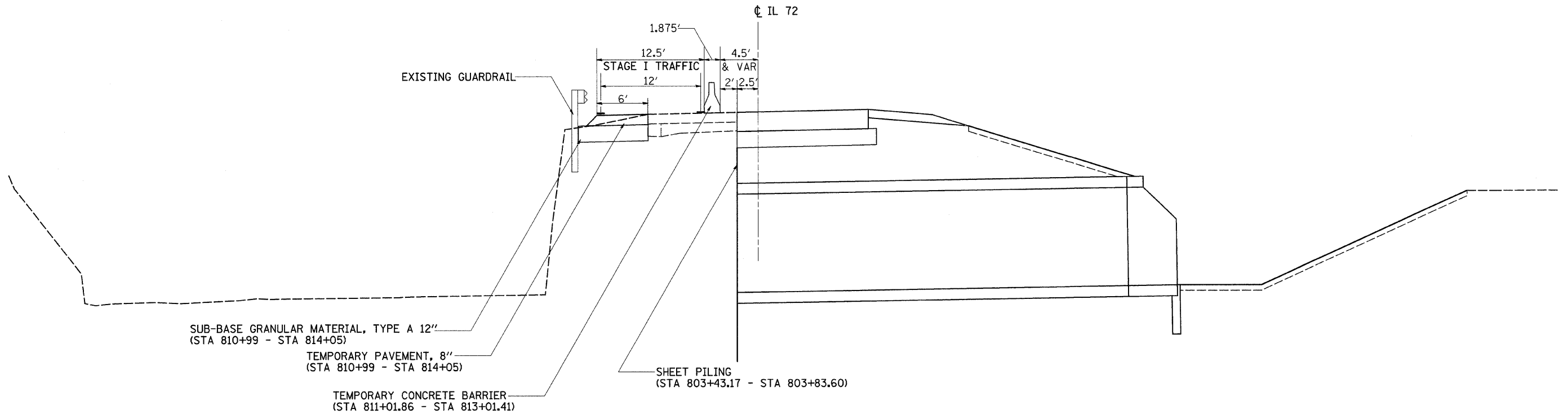
DRAWN BY _____
CHECKED BY _____

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
549	117 T	OGLE	86	15
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

STAGING TYPICAL SECTIONS

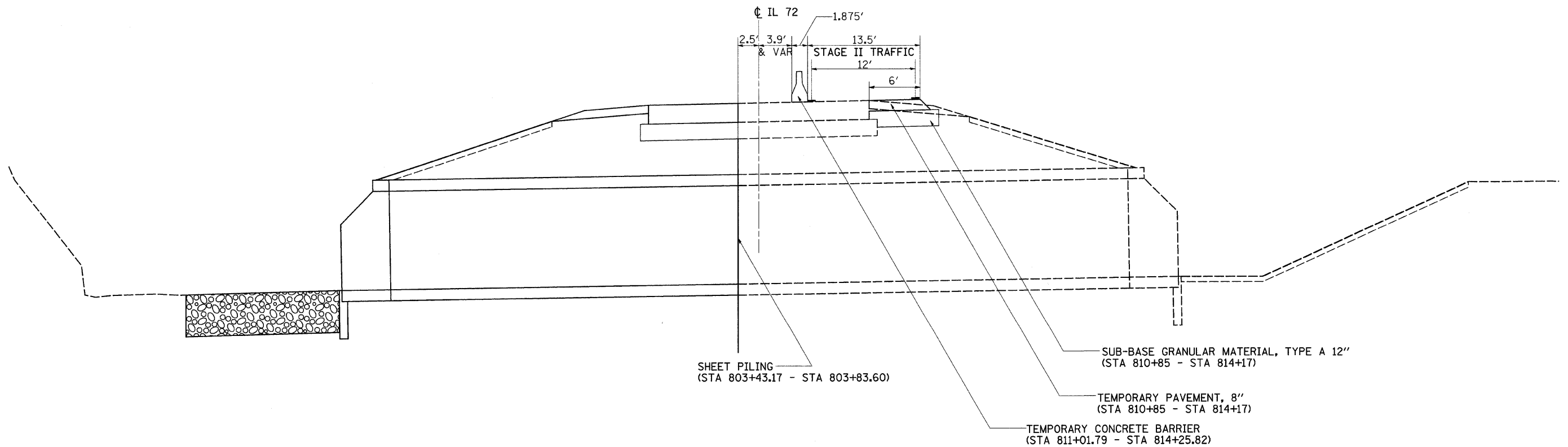
STAGE I

STRUCTURE NO. 2



STAGE II

STRUCTURE NO. 2



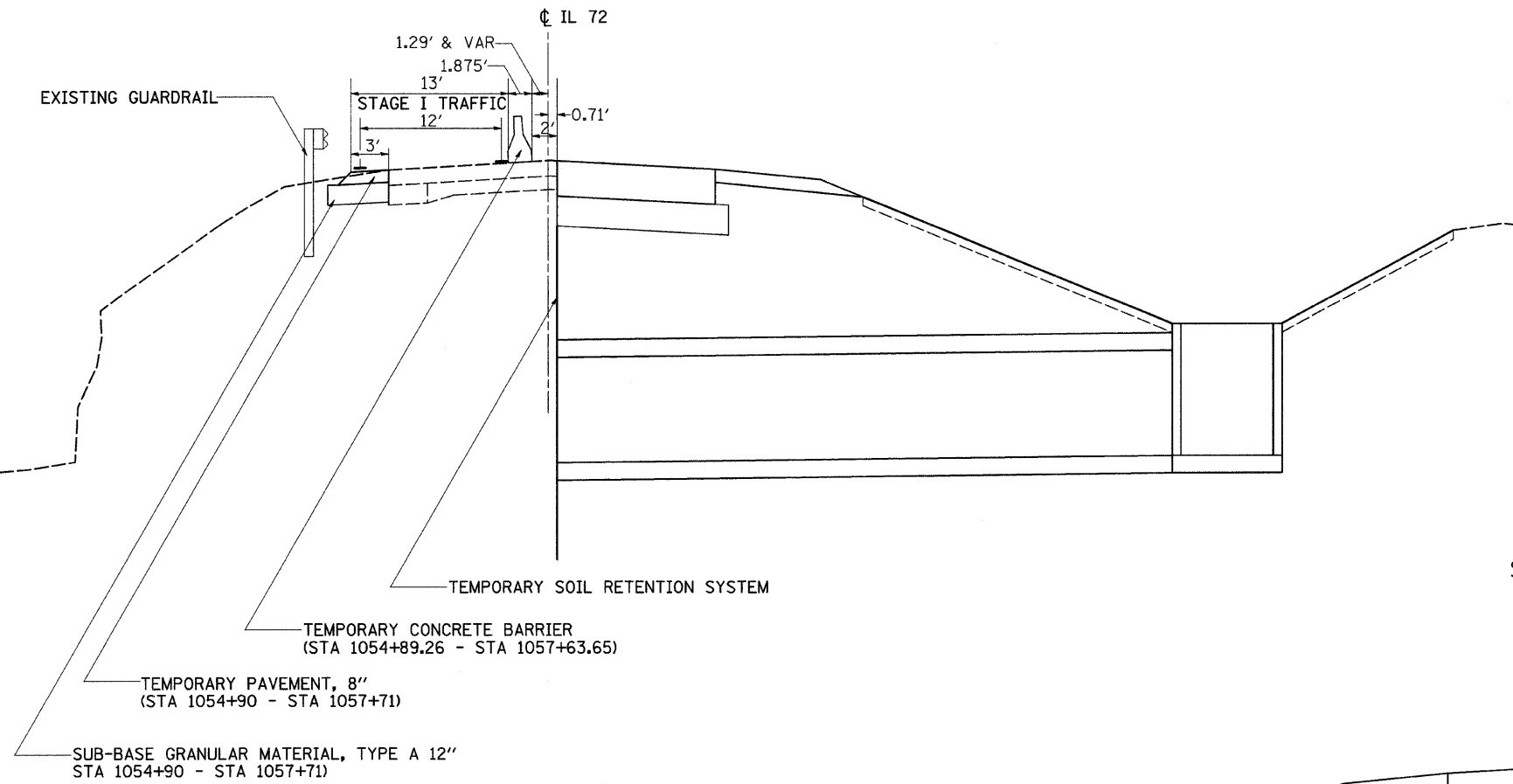
PLOT DATE = Fri Dec 28 13:53:08 2007
 FILE NAME = c:\projects\p210765\dl10705\typ.dgn
 PLOT SCALE = 50.0000 / IN.
 USER NAME = gcfj

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
549	117 T	OGLE	86	16
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

STAGING TYPICAL SECTIONS

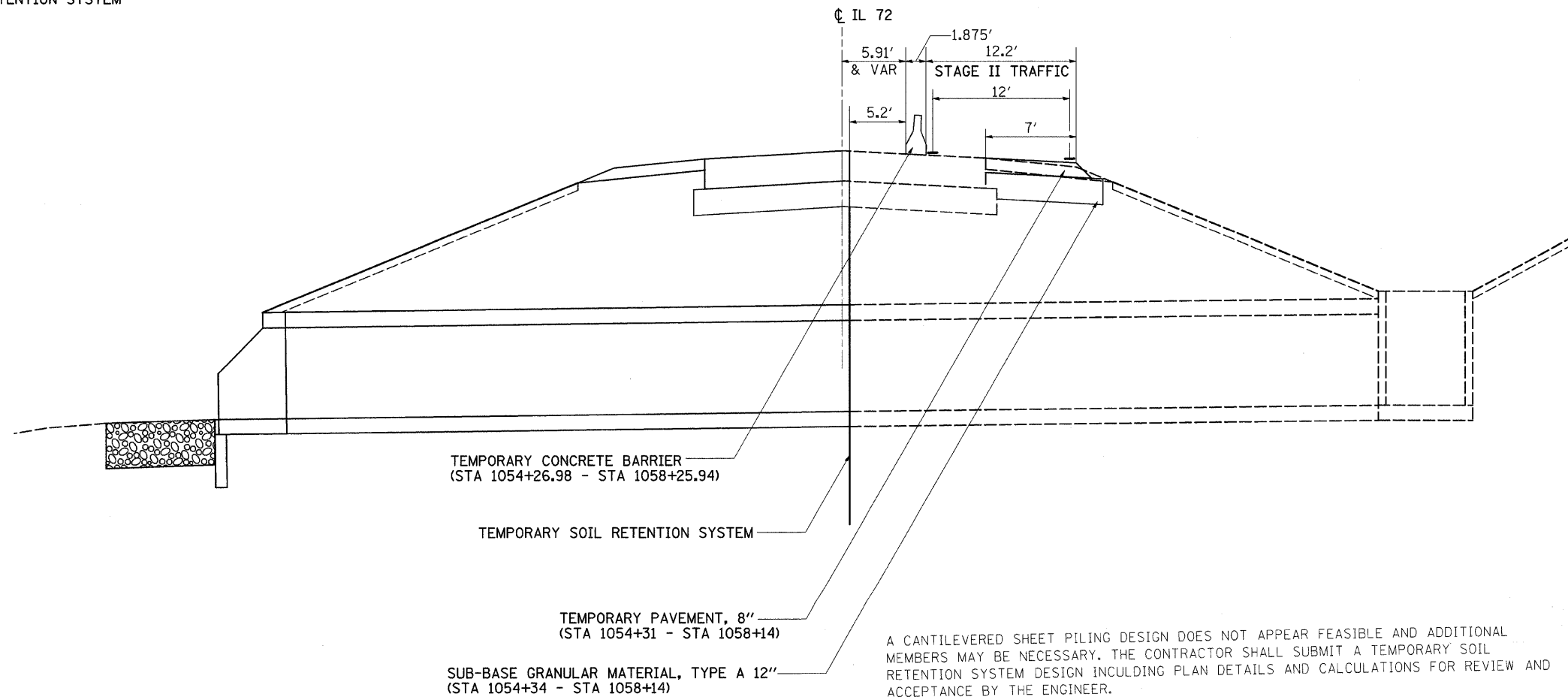
STAGE I

STRUCTURE NO. 3



STAGE II

STRUCTURE NO. 3



A CANTILEVERED SHEET PILING DESIGN DOES NOT APPEAR FEASIBLE AND ADDITIONAL MEMBERS MAY BE NECESSARY. THE CONTRACTOR SHALL SUBMIT A TEMPORARY SOIL RETENTION SYSTEM DESIGN INCLUDING PLAN DETAILS AND CALCULATIONS FOR REVIEW AND ACCEPTANCE BY THE ENGINEER.

THE CONTRACTOR SHALL USE BORING B-2A AS A REFERENCE WHEN DESIGNING THE TEMPORARY SOIL RETENTION SYSTEM.

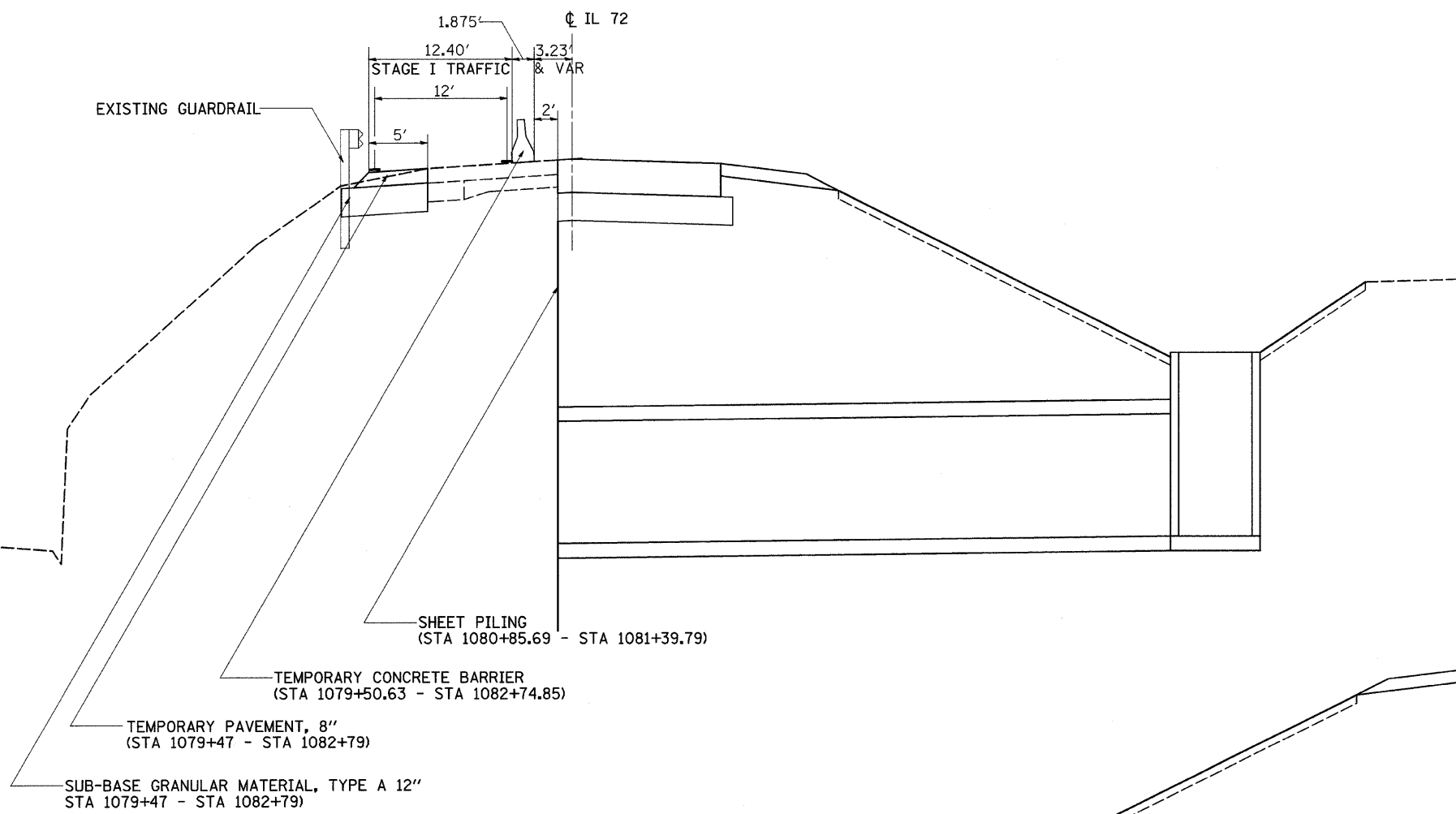
PLOT DATE = Fri Dec 28 13:53:48 2007
 FILE NAME = c:\p\objects\p210706\j107061.dwg
 PLOT SCALE = 80.0000 / IN.
 USER NAME = gertjl

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
549	117 T	OGLE	86	17
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

STAGING TYPICAL SECTIONS

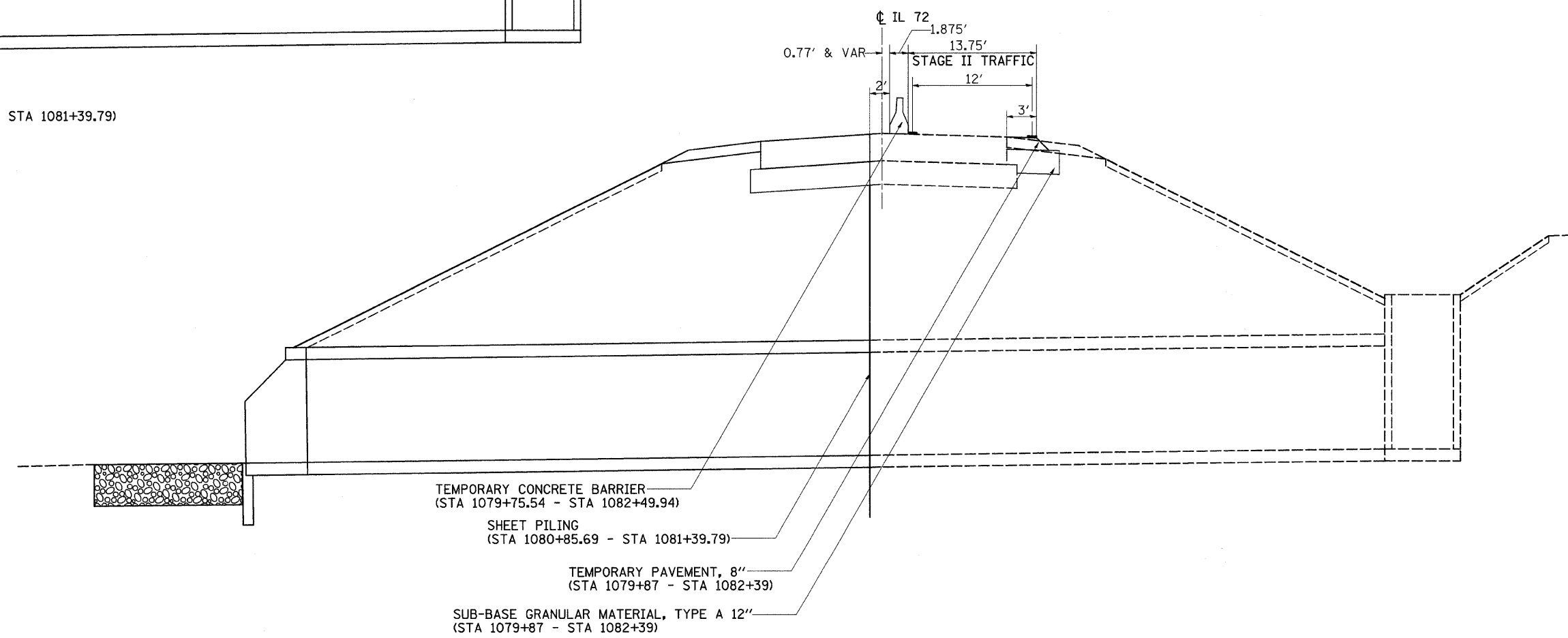
STAGE I

STRUCTURE NO. 4



STAGE II

STRUCTURE NO. 4



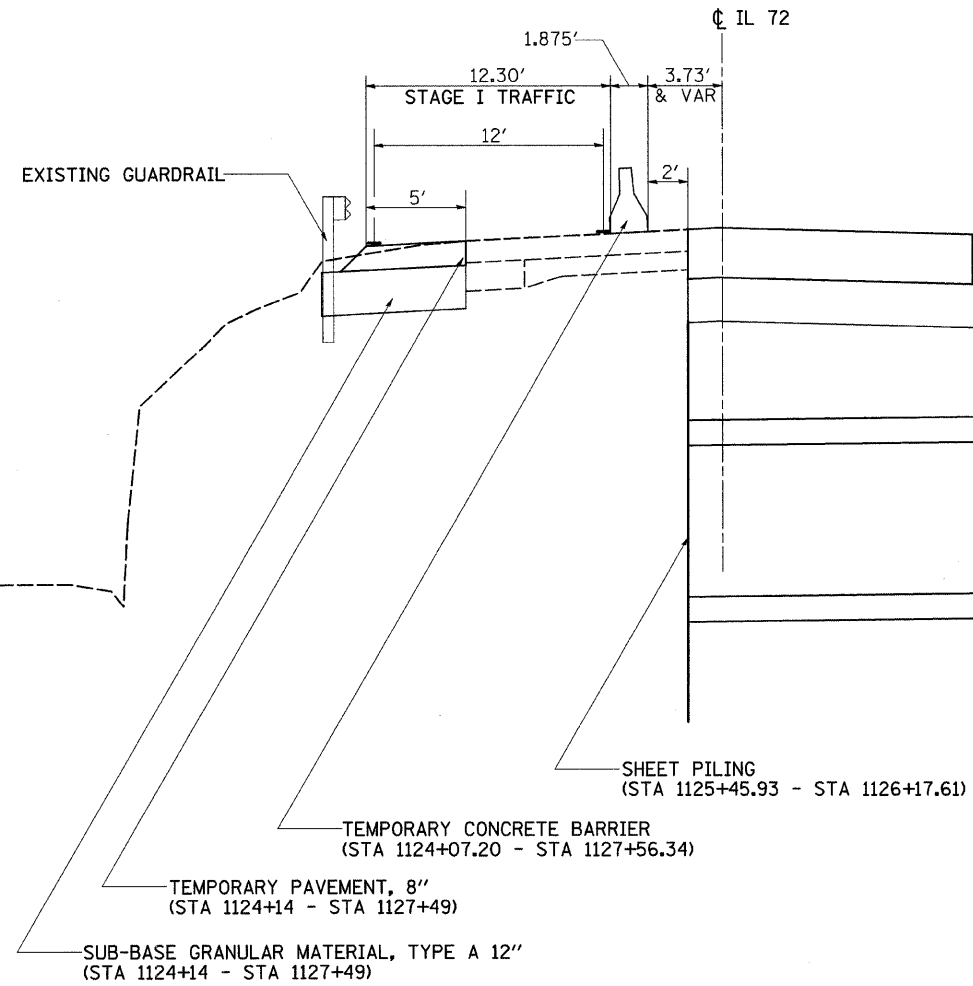
PLOT DATE = Fri, Dec 28 13:53:08 2007
 FILE NAME = c:\projects\117\117\117\117\117.dgn
 PLOT SCALE = 50.0000 / IN.
 USER NAME = gpfj

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
549	117 T	OGLE	86	18
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

STAGING TYPICAL SECTIONS

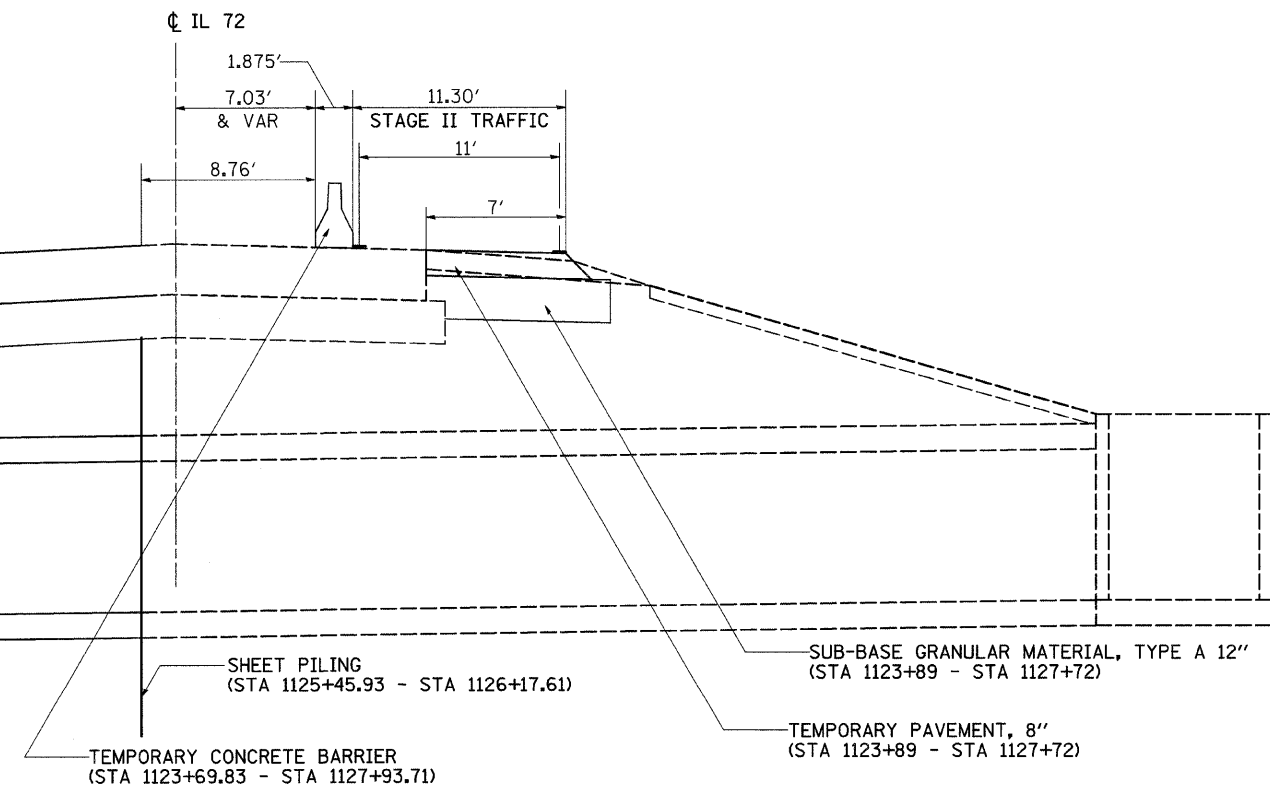
STAGE I

STRUCTURE NO. 5



STAGE II

STRUCTURE NO. 5



SCHEDULES OF QUANTITIES

F.A. P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
549	117 T	OGLE	86	19
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

20100110	TREE REMOVAL (6 TO 15 UNITS DIAMETER)					20200100	EARTH EXCAVATION				
	UNIT	LOCATION	OFFSET (ft)	REMARKS		CU YD	LOCATION			REMARKS	
	47	LT Sta. 812+10.0	TO 812+80.0	49-68 LT	BOX 2	240.9	RT Sta. 801+50.0	TO 805+50.0		BOX 1-STAGE 1	
	6	RT Sta. 1125+77.4		31.6	BOX 5	300.4	LT Sta. 801+50.0	TO 805+50.0		BOX 1-STAGE 2	
	53	TOTAL				558.9	RT Sta. 810+00.0	TO 813+50.0		BOX 2-STAGE 1	

20100500	TREE REMOVAL - ACRES					20200100	EARTH EXCAVATION				
	ACRES	LOCATION	REMARKS			CU YD	LOCATION			REMARKS	
	0.3	LT Sta. 1055+00.0	TO 1057+00.0		BOX 3	175.3	LT Sta. 810+00.0	TO 813+50.0		BOX 2-STAGE 2	
	0.3	LT Sta. 1079+50.0	TO 1083+40.0		BOX 4	806.3	RT Sta. 1055+00.0	TO 1058+50.0		BOX 3-STAGE 1	
	0.6	TOTAL				48.9	LT Sta. 1055+00.0	TO 1058+50.0		BOX 3-STAGE 2	

20101400	NITROGEN FERTILIZER NUTRIENT					20400800	FURNISHED EXCAVATION				
	POUND	LOCATION	REMARKS			CU YD	LOCATION			REMARKS	
	81	LT & RT Sta 801+50.0	TO 805+50.0		BOX 1	129.7	LT Sta. 810+00.0	TO 813+50.0		BOX 2-STAGE 2	
	117	LT & RT Sta 810+00.0	TO 813+50.0		BOX 2	782.0	LT Sta. 1055+00.0	TO 1058+50.0		BOX 3-STAGE 2	
	72	LT & RT Sta 1055+00.0	TO 1058+50.0		BOX 3	1505.6	LT Sta. 1079+00.0	TO 1083+50.0		BOX 4-STAGE 2	
	198	LT & RT Sta 1079+00.0	TO 1083+50.0		BOX 4	2417	TOTAL				
	972	LT & RT Sta 1112+50.0	TO 1128+00.0		BOX 5						
	1440	TOTAL									

20101500	PHOSPHORUS FERTILIZER NUTRIENT					21101615	FURNISH AND PLACE TOPSOIL - 4"				
	POUND	LOCATION	REMARKS			CU YD	LOCATION			REMARKS	
	81	LT & RT Sta 801+50.0	TO 805+50.0		BOX 1	292.5	RT Sta. 801+50.0	TO 805+50.0		BOX 1	
	117	LT & RT Sta 810+00.0	TO 813+50.0		BOX 2	321.9	LT Sta. 801+50.0	TO 805+50.0		BOX 1	
	72	LT & RT Sta 1055+00.0	TO 1058+50.0		BOX 3	144.5	RT Sta. 810+00.0	TO 813+50.0		BOX 2	
	198	LT & RT Sta 1079+00.0	TO 1083+50.0		BOX 4	144.8	LT Sta. 810+00.0	TO 813+50.0		BOX 2	
	972	LT & RT Sta 1112+50.0	TO 1128+00.0		BOX 5	436.0	RT Sta. 1055+00.0	TO 1058+50.0		BOX 3	
	1440	TOTAL				9033.6	LT Sta. 1055+00.0	TO 1058+50.0		BOX 3	

20101600	POTASSIUM FERTILIZER NUTRIENT					25000200	SEEDING CLASS 2A				
	POUND	LOCATION	REMARKS			ACRE	LOCATION			REMARKS	
	81	LT & RT Sta 801+50.0	TO 805+50.0		BOX 1	0.8	LT & RT Sta 801+50.0	TO 805+50.0		BOX 1	
	117	LT & RT Sta 810+00.0	TO 813+50.0		BOX 2	1.1	LT & RT Sta 810+00.0	TO 813+50.0		BOX 2	
	72	LT & RT Sta 1055+00.0	TO 1058+50.0		BOX 3	0.6	LT & RT Sta 1055+00.0	TO 1058+50.0		BOX 3	
	198	LT & RT Sta 1079+00.0	TO 1083+50.0		BOX 4	2.0	LT & RT Sta 1079+00.0	TO 1083+50.0		BOX 4	
	972	LT & RT Sta 1112+50.0	TO 1128+00.0		BOX 5	10.5	LT & RT Sta 1112+50.0	TO 1128+00.0		BOX 5	
	1440	TOTAL				15	TOTAL				

PLOT DATE = Fri Dec 28 13:52:39 2007
 FILE NAME = c:\p\projects\210705\110705bovr.dgn
 PLOT SCALE = 1/8" = 100'-0"
 USER NAME = gpr1jl

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
549	117 T	OGLE	86	20
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

SCHEDULES OF QUANTITIES

25000300	<u>SEEDING, CLASS 4</u>				
	ACRE	LOCATION		REMARKS	
	0.1	LT & RT Sta 801+50.0 TO 805+50.0		BOX 1	
	0.2	LT & RT Sta 810+00.0 TO 813+50.0		BOX 2	
	0.2	LT & RT Sta 1055+00.0 TO 1058+50.0		BOX 3	
	0.2	LT & RT Sta 1079+00.0 TO 1083+50.0		BOX 4	
	0.3	LT & RT Sta 1112+50.0 TO 1128+00.0		BOX 5	
	1	TOTAL LT & RT Sta.			

28000250	<u>TEMPORARY EROSION CONTROL SEEDING</u>				
	POUND	LOCATION		REMARKS	
	540	LT & RT Sta 801+50.0 TO 805+50.0		BOX 1	
	780	LT & RT Sta 810+00.0 TO 813+50.0		BOX 2	
	480	LT & RT Sta 1055+00.0 TO 1058+50.0		BOX 3	
	1320	LT & RT Sta 1079+00.0 TO 1083+50.0		BOX 4	
	6480	LT & RT Sta 1112+50.0 TO 1128+00.0		BOX 5	
	9600	TOTAL			

A TOTAL OF 6 DAYS FOR EACH OF THE 5 LOCATIONS.

25000750	<u>MOWING</u>				
	ACRE	LOCATION		REMARKS	
	0.8	LT & RT Sta 801+50.0 TO 805+50.0		BOX 1	
	1.1	LT & RT Sta 810+00.0 TO 813+50.0		BOX 2	
	0.6	LT & RT Sta 1055+00.0 TO 1058+50.0		BOX 3	
	2.0	LT & RT Sta 1079+00.0 TO 1083+50.0		BOX 4	
	10.5	LT & RT Sta 1112+50.0 TO 1128+00.0		BOX 5	
	15	TOTAL			

28000300	<u>TEMPORARY DITCH CHECKS *</u>				
	EACH	LOCATION		REMARKS	
	9	LT Sta. 801+50.0 TO 805+50.0		BOX 1	
	9	RT Sta. 801+50.0 TO 805+50.0		BOX 1	
	6	LT Sta. 810+00.0 TO 812+50.0		BOX 2	
	5	RT Sta. 810+00.0 TO 812+50.0		BOX 2	
	10	RT Sta. 1055+00.0 TO 1058+50.0		BOX 3	
	7	RT Sta. 1079+00.0 TO 1081+12.5		BOX 4	
	14	LT Sta. 1123+65.0 TO 1128+00.0		BOX 5	
	31	RT Sta. 1113+00.0 TO 1128+00.0		BOX 5	
	91	TOTAL			

*MOWING CLASS 2A SEEDING AREAS ONLY.

25100115	<u>MULCH, METHOD 2</u>				
	ACRE	LOCATION		REMARKS	
	0.9	LT & RT Sta 801+50.0 TO 805+50.0		BOX 1	
	1.3	LT & RT Sta 810+00.0 TO 813+50.0		BOX 2	
	0.8	LT & RT Sta 1055+00.0 TO 1058+50.0		BOX 3	
	2.2	LT & RT Sta 1079+00.0 TO 1083+50.0		BOX 4	
	10.8	LT & RT Sta 1112+50.0 TO 1128+00.0		BOX 5	
	16	TOTAL			

28000400	<u>PERIMETER EROSION BARRIER</u>				
	EQOI	LOCATION		REMARKS	
	50	LT Sta. 803+63.4 TO 804+00.0		BOX 1	
	107	LT Sta. 812+50.0 TO 813+53.7		BOX 2	
	413	LT Sta. 1055+00.0 TO 1058+50.0		BOX 3	
	464	LT Sta. 1079+00.0 TO 1083+50.0		BOX 4	
	152	RT Sta. 1079+00.0 TO 1080+50.0		BOX 4	
	247	RT Sta. 1081+12.6 TO 1083+50.0		BOX 4	
	160	LT Sta. 1125+50.0 TO 1127+00.0		BOX 5	
	1593	TOTAL			

25100630	<u>EROSION CONTROL BLANKET</u>				
	SQ YD	LOCATION		REMARKS	
	292.6	LT Sta. 801+50.0 TO 805+50.0		BOX 1	
	288.4	RT Sta. 801+50.0 TO 805+50.0		BOX 1	
	203.6	LT Sta. 810+00.0 TO 812+50.0		BOX 2	
	173.6	RT Sta. 810+00.0 TO 812+50.0		BOX 2	
	151.2	RT Sta. 1055+00.0 TO 1058+50.0		BOX 3	
	157.2	RT Sta. 1079+00.0 TO 1081+12.5		BOX 4	
	370.1	LT Sta. 1123+65.0 TO 1128+00.0		BOX 5	
	2951.1	RT Sta. 1113+00.0 TO 1128+00.0		BOX 5	
	4588	TOTAL			

28000500	<u>INLET AND PIPE PROTECTION</u>				
	EACH	LOCATION	OFFSET (ft)	REMARKS	
	1	RT Sta. 803+63.4	31	BOX 1	
	1	RT Sta. 812+35.0	45	BOX 2	
	1	RT Sta. 813+08.0	28.35	BOX 2	
	1	RT Sta. 1056+42.3	47.6	BOX 3	
	1	RT Sta. 1081+12.7	69.25	BOX 4	
	1	RT Sta. 1117+20.0	36.3	BOX 5	
	1	RT Sta. 1125+61.0	71	BOX 5	
	1	RT Sta. 1126+11.0	39.6	BOX 5	
	8	TOTAL			

PLOT DATE = Fri, Dec 28 13:45:29 2007
 FILE NAME = c:\p\projects\2510705\10705evr.dgn
 PLOT SCALE = 500.0000 / in.
 USER NAME = gaffj

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
549	117 T	OGLE	86	21
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

SCHEDULES OF QUANTITIES

40603310 HOT -MIX ASPHALT SURFACE COURSE, MIX 'C', N50

28100107	STONE RIPRAP, CLASS A4	LOCATION	REMARKS
	SQ YD		
	37	LT Sta. 803+63.0	BOX 1
	25	LT Sta. 812+64.0	BOX 2
	11	LT Sta. 1056+40.0	BOX 3
	25	LT Sta. 1081+10.0	BOX 4
	40	LT Sta. 1125+82.0	BOX 5
	138	TOTAL	

ION	LOCATION	THICKNESS (in)	REMARKS
16	LT & RT Sta 803+43.2 TO 803+83.6	2 1/2	OVER CLASS C PATCH
16	LT & RT Sta 803+43.2 TO 803+83.6	2 1/2	OVER CLASS C PATCH
25	LT & RT Sta 812+32.9 TO 812+94.8	2 1/2	OVER CLASS C PATCH
26	LT & RT Sta 1055+94.5 TO 1056+58.4	2 1/2	OVER CLASS C PATCH
22	LT & RT Sta 1080+85.7 TO 1081+39.8	2 1/2	OVER CLASS C PATCH
29	LT & RT Sta 1125+45.9 TO 1126+17.6	2 1/2	OVER CLASS C PATCH
134	TOTAL		

40800050 INCIDENTAL HOT -MIX ASPHALT SURFACING

28200200	FILTER FABRIC	LOCATION	REMARKS
	SQ YD		
	37	LT Sta. 803+63.0	Rip Rap -Area-Box 1
	25	LT Sta. 812+64.0	Rip Rap -Area-Box 2
	11	LT Sta. 1056+40.0	Rip Rap -Area-Box 3
	25	LT Sta. 1081+10.0	Rip Rap -Area-Box 4
	40	LT Sta. 1125+82.0	Rip Rap -Area-Box 5
	138	TOTAL	

ION	LOCATION	REMARKS
16	RT Sta. 813+03.0	PE
55	RT Sta. 1117+50.0	PE/ MB
12	RT Sta. 1126+50.0	PE
19	TOTAL	
83	TOTAL	

42001200 PAVEMENT FABRIC

31100910	SUB-BASE GRANULAR MATERIAL, TYPE A 12	LOCATION	REMARKS
	SQ YD		
	116.8	Lt & Rt Sta 803+43.2 TO 803+83.6	OVER PATCH
	204.0	Lt Sta. 810+99.0 TO 814+05.1	STAGE 1
	220.9	Rt Sta 810+85.3 TO 814+16.7	STAGE 2
	93.5	Lt Sta. 1054+90.0 TO 1057+70.6	STAGE 1
	298.1	Rt Sta 1054+30.8 TO 1058+14.0	STAGE 2
	184.2	Lt Sta. 1079+47.4 TO 1082+78.9	STAGE 1
	84.2	Rt Sta 1079+86.9 TO 1082+39.4	STAGE 2
	185.9	Lt Sta. 1124+14.0 TO 1127+48.6	STAGE 1
	297.8	Rt Sta 1123+89.5 TO 1127+72.3	STAGE 2
	1685	TOTAL	

SQ YD	LOCATION	REMARKS
116	LT & RT Sta 803+43.2 TO 803+83.6	
183	LT & RT Sta 812+32.9 TO 812+94.8	
174	LT & RT Sta 1055+94.5 TO 1056+58.4	
155	LT & RT Sta 1080+85.7 TO 1081+39.8	
208	LT & RT Sta 1125+45.9 TO 1126+17.6	
836	TOTAL	

44201373 CLASS C PATCHES, TYPE IV, 12 INCH

SQ YD	LOCATION	REMARKS
116	LT & RT Sta 803+43.2 TO 803+83.6	
183	LT & RT Sta 812+32.9 TO 812+94.8	
174	LT & RT Sta 1055+94.5 TO 1056+58.4	
155	LT & RT Sta 1080+85.7 TO 1081+39.8	
208	LT & RT Sta 1125+45.9 TO 1126+17.6	
836	TOTAL	

35101400	AGGREGATE BASE COURSE, TYPE B	LOCATION	THICKNESS (in)	REMARKS
	ION			
	96	RT Sta. 813+03.0	12	PE
	338	RT Sta. 1117+50.0	12	PE/ MB
	74	RT Sta. 1126+50.0	12	FE
	116	RT Sta. 1115+77.5	12	FE
	508	TOTAL		

42300300 PORTLAND CEMENT CONCRETE DRIVEWAY PAVEMENT, 7 INCH

SQ YD	LOCATION	OFFSET (ft)	REMARKS
74	RT Sta. 117+53.0	96 to 112	used in the natural flow of the existing ditch(see detail sheet)

PLOT DATE = Fri, Dec 28, 13:52:59, 2007
 FILE NAME = c:\projects\64b44\10705\10705.dgn
 PLOT SCALE = 1/8" = 1'-0"
 USER NAME = gpfj

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
549	117 T	OGLE	86	22
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

SCHEDULES OF QUANTITIES

50105200

REMOVE EXISTING CULVERTS

EACH	LOCATION	REMARKS
1	Rt .Sta. 1115+75.0	
1	Rt .Sta. 1118+60.0	
2	TOTAL	

48100100

AGGREGATE SHOULDERS TYPE A

ION	LOCATION	THICKNESS (in)	REMARKS
119.6	LT Sta. 802+00.0 TO 805+00.0	6	
119.6	RT Sta. 802+00.0 TO 805+00.0	6	
119.6	LT Sta. 810+50.0 TO 813+50.0	6	
129.5	RT Sta. 810+50.0 TO 813+75.0	6	
99.7	LT Sta. 1055+50.0 TO 1058+00.0	6	
99.7	RT Sta. 1055+50.0 TO 1058+00.0	6	
139.5	LT Sta. 1079+50.0 TO 1083+00.0	6	
139.5	RT Sta. 1079+50.0 TO 1083+00.0	6	
139.5	LT Sta. 1124+00.0 TO 1127+50.0	6	
558.1	RT Sta. 1113+50.0 TO 1127+50.0	6	
1664	TOTAL		

50% overrun included.

51205200

TEMPORARY SHEET PILING

SQ.FT	LOCATION	REMARKS
2164.8	Sta. 812+32.9 TO 812+94.8	STAGING ,ALONG CLASS C PATCHING
1796.1	Sta. 1080+85.7 TO 1081+39.8	STAGING ,ALONG CLASS C PATCHING
2480.1	Sta. 1125+45.9 TO 1126+17.6	STAGING ,ALONG CLASS C PATCHING
6441	TOTAL	

51500100

NAME PLATES

EACH	LOCATION	REMARKS
1	Sta. 803+63.4	BOX NO. 1
1	Sta. 812+63.4	BOX NO. 2
1	Sta. 1056+26.4	BOX NO. 3
1	Sta. 1081+12.7	BOX NO.4
1	Sta. 1125+82.0	BOX NO. 5
5	TOTAL	

50100300

REMOVAL OF EXISTING STRUCTURES NO. 1

EACH	LOCATION	REMARKS
1	Sta. 803+63.4	EXISTING 5' X 4' BOX CULVERT.

50100400

REMOVAL OF EXISTING STRUCTURES NO. 2

EACH	LOCATION	REMARKS
1	Sta. 812+63.4	EXISTING 10' X 8' BOX CULVERT.

54001002

BOX CULVERT END SECTION, CULVERT 2

EACH	LOCATION	REMARKS
2	LT & Rt Sta. 812+63.4	BOX 2

50100500

REMOVAL OF EXISTING STRUCTURES NO. 3

EACH	LOCATION	REMARKS
1	Sta. 1056+26.4	EXISTING 7' X 4' BOX CULVERT.

54001003

BOX CULVERT END SECTION, CULVERT 3

EACH	LOCATION	REMARKS
1	LT Sta. 1056+26.4	BOX 3

50100600

REMOVAL OF EXISTING STRUCTURES NO. 4

EACH	LOCATION	REMARKS
1	Sta. 1081+12.7	EXISTING 6' X 5' BOX CULVERT.

54001004

BOX CULVERT END SECTION, CULVERT 4

EACH	LOCATION	REMARKS
1	LT Sta. 1081+12.7	BOX 4

50100700

REMOVAL OF EXISTING STRUCTURES NO. 5

EACH	LOCATION	REMARKS
1	Sta. 1125+82.0	EXISTING 10' X 6' BOX CULVERT.

54001005

BOX CULVERT END SECTION, CULVERT 5

EACH	LOCATION	REMARKS
2	LT Sta. 1125+82.0	BOX 5

PLOT DATE = Fri, Dec 28, 13:42:39, 2007
 FILE NAME = c:\projects\p210705\c10705bvr.dgn
 PLOT SCALE = 50.0000 / IN.
 USER NAME = gpfj

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
549	117 T	OGLE	86	24
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

SCHEDULES OF QUANTITIES

66600105

EURNISHING AND ERECTING RIGHT-OF-WAY MARKERS

EACH	LOCATION	OFFSET (ft)	REMARKS
1	RT.Sta 811+00.0	51.63	BOX 2
1	RT.Sta 812+00.0	100	BOX 2
1	RT.Sta 812+50.0	100	BOX 2
1	RT.Sta 813+25.0	65.91	BOX 2
1	RT.Sta 1054+50.0	40	BOX 3
1	RT.Sta 1056+00.0	90	BOX 3
1	RT.Sta 1057+00.0	90	BOX 3
1	RT.Sta 1058+00.0	70	BOX 3
1	RT.Sta 1058+75.0	40	BOX 3
1	LT Sta. 1054+50.0	40	BOX 3
1	LT Sta. 1056+00.0	85	BOX 3
1	LT Sta. 1057+00.0	85	BOX 3
1	LT Sta. 1058+50.0	40	BOX 3
1	RT.Sta 1079+25.0	40	BOX 4
1	RT.Sta 1080+35.0	80	BOX 4
1	RT.Sta 1081+65.0	80	BOX 4
1	RT.Sta 1083+00.0	60	BOX 4
1	RT.Sta 1083+25.0	40	BOX 4
1	LT Sta. 1079+45.0	40.6	BOX 4
1	LT Sta. 1080+35.0	100	BOX 4
1	LT Sta. 1081+65.0	100	BOX 4
1	LT Sta. 1083+00.0	65	BOX 4
1	LT Sta. 1083+50.0	45	BOX 4
1	RT.Sta 1113+00.0	40	BOX 5
1	RT.Sta 1115+00.0	60	BOX 5
1	RT.Sta 1116+75.0	60	BOX 5
1	RT.Sta 1120+00.0	60	BOX 5
1	RT.Sta 1123+00.0	50	BOX 5
1	RT.Sta 1124+00.0	50	BOX 5
1	RT.Sta 1125+00.0	75	BOX 5
1	RT.Sta 1126+00.0	75	BOX 5
1	RT.Sta 1128+00.0	40	BOX 5
1	LT Sta. 1123+65.0	40	BOX 5
1	LT Sta. 1125+50.0	95	BOX 5
1	LT Sta. 1126+50.0	95	BOX 5
1	LT Sta. 1127+00.0	60	BOX 5
1	LT Sta. 1128+00.0	40	BOX 5

37 TOTAL

61133100

FIELD TILE JUNCTION VAULTS, 2' DIA.

EACH	LOCATION	OFFSET (ft)	REMARKS
1	RT Sta. 1125+45.0	75'	RT-20'RTFIELD TILE NEW LOCATION

6320030

GUARDRAIL REMOVAL

FOOT	LOCATION	REMARKS
175	LT Sta. 802+94.5 TO 804+69.5	BOX 1
175	RT Sta. 802+55.2 TO 804+30.2	BOX 1
150	LT Sta. 811+93.7 TO 813+43.7	BOX 2
150	RT Sta. 811+31.9 TO 812+81.9	BOX 2
237.5	LT Sta. 1055+39.8 TO 1057+77.3	BOX 3
150	RT Sta. 1080+08.3 TO 1081+58.3	BOX 4
362.5	LT Sta. 1079+53.2 TO 1083+15.7	BOX 4
75	RT Sta. 1125+37.3 TO 1126+12.3	BOX 5
75	LT Sta. 1125+67.0 TO 1126+42.0	BOX 5
1550	TOTAL	

63500105

DELINEATORS

EACH	LOCATION	REMARKS
2	LT & RT Sta 803+63.4	BOX 1
2	LT & RT Sta 812+63.4	BOX 2
2	LT & RT Sta 1056+26.4	BOX 3
2	LT & RT Sta 1081+12.7	BOX 4
2	LT & RT Sta 1125+82.0	BOX 5
10	TOTAL	

66500105

WOVEN WIRE FENCE, 4'

FOOT	LOCATION	REMARKS
500	LT Sta. 1123+32.0 TO 1128+32.0	AT North side proposed R.O.W BOX 5

66700305

PERMANENT SURVEY MARKERS, TYPE II

EACH	LOCATION	REMARKS
1	BOX NO. 1	
1	BOX NO. 2	
1	BOX NO. 3	
1	BOX NO. 4	
1	BOX NO. 5	
5	TOTAL	

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
549	117 T	OGLE	86	25
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

SCHEDULES OF QUANTITIES

70106500	<u>TEMPORARY BRIDGE TRAFFIC SIGNALS</u>								
	EACH	LOCATION	REMARKS						
	2	BOX NO. 2	STAGE 1						
	2	BOX NO. 3	STAGE 1						
	2	BOX NO.4	STAGE 1						
	2	BOX NO. 5	STAGE 1						
	8	TOTAL							

70106700	<u>TEMPORARY RUMBLE STRIPS</u>								
	EACH	LOCATION	REMARKS						
	6	BOX NO. 2	STAGING						
	6	BOX NO. 3	STAGING						
	6	BOX NO.4	STAGING						
	6	BOX NO. 5	STAGING						
	24	TOTAL							

USE 3 STRIPS LOCATIONS FOR EACH DIRECTION FOR EACH SIGNAL

70301000	<u>WORK ZONE PAVEMENT MARKING REMOVAL</u>								
	SQ. FT.	LOCATION	REMARKS						
		BOX # 1							
	26.7	Lt Sta. 803+43.2 TO 803+83.6	4" - Line	TEMP PATCH					
	26.7	Rt Sta. 803+43.2 TO 803+83.6	4" - Line	TEMP PATCH					

70300520	<u>PAVEMENT MARKING TAPE, TYPE III 4"</u>								
	EQOI	LOCATION	REMARKS						
		BOX # 2							
	1325.2	Lt Sta. 809+25.3 TO 815+87.9	4" - Line	STAGE 1					
	1325.2	Rt Sta. 809+25.3 TO 815+87.9	4" - Line	STAGE 2					
		BOX # 3							
	1460.5	Lt Sta. 1052+63.1 TO 1059+93.3	24"- Stop Bar	STAGE 1					
	1460.5	Rt Sta. 1052+63.1 TO 1059+93.3	24"- Stop Bar	STAGE 2					
		BOX # 4							
	973.2	Lt Sta. 1079+47.4 TO 1084+34.0	4" - Line	STAGE 1					
	973.2	Rt Sta. 1079+47.4 TO 1084+34.0	4" - Line	STAGE 2					
		BOX # 5							
	1478.9	Lt Sta. 1122+15.0 TO 1129+54.4	24"- Stop Bar	STAGE 1					
	1478.9	Rt Sta. 1122+15.0 TO 1129+54.4	24"- Stop Bar	STAGE 2					
	10476	TOTAL							

70300570	<u>PAVEMENT MARKING TAPE, TYPE III 24"</u>								
	EQOI	LOCATION	REMARKS						
		BOX # 2							
	12	Lt Sta. 809+25.3	Stop Bar	STAGE 1					
	12	Lt Sta. 809+25.3	Stop Bar	STAGE 1					
	12	Rt Sta. 815+87.9	Stop Bar	STAGE 2					
	12	Rt Sta. 815+87.9	Stop Bar	STAGE 2					
		BOX # 3							
	12	Lt Sta. 1052+63.1	Stop Bar	STAGE 1					
	12	Lt Sta. 1052+63.1	Stop Bar	STAGE 1					
	12	Rt Sta. 1059+93.3	Stop Bar	STAGE 2					
	12	Rt Sta. 1059+93.3	Stop Bar	STAGE 2					
		BOX # 4							
	432.2	Lt Sta. 1077+79.2 TO 1084+34.0	4" - Line	STAGE 1					
	432.2	Rt Sta. 1077+79.2 TO 1084+34.0	4" - Line	STAGE 2					
	23.8	Lt Sta. 1077+79.2	24"- Stop Bar	STAGE 1					
	23.8	Lt Sta. 1084+34.0	24"- Stop Bar	STAGE 1					
	23.8	Rt Sta. 1077+79.2	24"- Stop Bar	STAGE 2					
	23.8	Rt Sta. 1084+34.0	24"- Stop Bar	STAGE 2					
		BOX # 5							
	501.2	Lt Sta. 1122+05.0 TO 1129+64.4	4" - Line	STAGE 1					
	501.2	Rt Sta. 1122+05.0 TO 1129+64.4	4" - Line	STAGE 2					
	23.8	Lt Sta. 1122+05.0	24"- Stop Bar	STAGE 1					
	23.8	Lt Sta. 1129+64.4	24"- Stop Bar	STAGE 1					
	23.8	Rt Sta. 1122+05.0	24"- Stop Bar	STAGE 2					
	23.8	Rt Sta. 1129+64.4	24"- Stop Bar	STAGE 2					
	4139	TOTAL							

PLOT DATE
FILE NAME
PLOT SCALE
USER NAME

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
549	117 T	OGLE	86	27
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

SCHEDULES OF QUANTITIES

Z0030070 IMPACT ATTENUATORS (SEVERE USE, NARROW), TEST LEVEL 3

EACH	LOCATION	REMARKS
	BOX # 2	
1	Lt Sta. 813+01.4	STAGE 1

Z0030250 IMPACT ATTENUATOR, TEMPORARY (NON-DEDUCTIBLE), TEST LEVEL 3

EACH	LOCATION	REMARKS
	BOX # 2	
1	Lt Sta. 811+01.9	STAGE 1
1	Lt Sta. 814+25.8	STAGE 2
	BOX # 3	
1	Lt Sta. 1054+89.3	STAGE 1
1	Lt Sta. 1057+63.7	STAGE 1
	BOX # 4	
1	Lt Sta. 1079+50.6	STAGE 1
1	Lt Sta. 1082+74.9	STAGE 1
	BOX # 5	
1	Lt Sta. 11+14.0	STAGE 1
1	Lt Sta. 1127+56.3	STAGE 1
8	TOTAL	

Z0030350 IMPACT ATTENUATORS, RELOCATE (NON-REDUCTIVE), TEST LEVEL 3

EACH	LOCATION	REMARKS
	BOX # 2	
1	Rt Sta. 811+01.9	STAGE 2
	BOX # 3	
1	Rt Sta. 1054+27.0	STAGE 2
1	Rt Sta. 1058+25.9	STAGE 2
	BOX # 4	
1	Rt Sta. 1079+75.5	STAGE 2
1	Rt Sta. 1082+49.9	STAGE 2
	BOX # 5	
1	Rt Sta. 1123+69.8	STAGE 2
1	Rt Sta. 1127+93.7	STAGE 2
7	TOTAL	

Z0020900 ESTABLISHING AND REFERENCING

LAND SECTION	MARKERS	LOCATION	OFFSET (ft)	REMARKS
EACH		Rt Sta. 1118+56.0	4	
1				

Z007530

TIE BARS	3/4"	LOCATION	PATCH LENGTH	LANE WIDTH(FT)	REMARKS
EACH		RT Sta. R-LANE		12	BOX 1
12.00		LT Sta. LT- LANE	40	12	BOX 1
32.00		RT Sta. R-LANE		12	BOX 2
12.00		LT Sta. LT- LANE	62	12	BOX 2
43.00		RT Sta. R-LANE		12	BOX 3
12.00		LT Sta. LT- LANE	64	12	BOX 3
44.00		RT Sta. R-LANE		12	BOX 4
12.00		LT Sta. LT- LANE	54	12	BOX 4
39.00		RT Sta. R-LANE		12	BOX 5
12.00		LT Sta. LT- LANE	72	12	BOX 5
48.00	TOTAL				
266					

TIE BARS ARE INSTALLED AT 24 INCHES CENTERS

PLOT DATE = Fri, Dec 28, 13:52:48, 2007
 FILE NAME = c:\projects\117\11705\11705.dwg
 PLOT SCALE = 1/8" = 1' IN.
 USER NAME = gpfj

HORIZONTAL & VERTICAL CONTROL

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
549	117 T	OGLE	86	28
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	

Chain IL72 contains:
3020 CUR 200 CUR 210 CUR 220 CUR 230 CUR 240 250 CUR 260 CUR 270 CUR 280 32

Beginning chain IL72 description

Point 3020 N 1,988,563.21 E 2,492,081.99 Sta 734+32.0500

Course from 3020 to PC 200 99° 43' 59.5314" Dist 5,269.34'

Curve Data

Curve 200
P.I. Station 797+98.0356 N 1,987,486.97 E 2,498,356.34
Delta = 41° 46' 41.7726" (LT)
Degree = 1° 59' 38.2522"
Tangent = 1,096.65'
Length = 2,095.24'
Radius = 2,873.47'
External = 202.15'
Long Chord = 2,049.13'
Mid. Ord. = 188.87'
P.C. Station 787+01.3890 N 1,987,672.37 E 2,497,275.48
P.T. Station 807+96.6313 N 1,988,068.84 E 2,499,285.89
C.C. N 1,990,504.48 E 2,497,761.27

Curve Data

Curve 210
P.I. Station 812+96.6638 N 1,988,334.15 E 2,499,709.74
Delta = 14° 20' 59.4333" (LT)
Degree = 1° 26' 32.7795"
Tangent = 500.03'
Length = 994.83'
Radius = 3,972.15'
External = 31.35'
Long Chord = 992.23'
Mid. Ord. = 31.10'
P.C. Station 807+96.6313 N 1,988,068.84 E 2,499,285.89
P.T. Station 817+91.4633 N 1,988,696.22 E 2,500,054.60
C.C. N 1,991,435.75 E 2,497,178.33

Course from PT 210 to PC 220 43° 36' 18.3255" Dist 52.62'

Curve Data

Curve 220
P.I. Station 823+17.9413 N 1,989,077.45 E 2,500,417.70
Delta = 44° 59' 28.2366" (RT)
Degree = 5° 00' 26.3796"
Tangent = 473.86'
Length = 898.51'
Radius = 1,144.24'
External = 94.24'
Long Chord = 875.60'
Mid. Ord. = 87.07'
P.C. Station 818+44.0853 N 1,988,734.33 E 2,500,090.89
P.T. Station 827+42.5920 N 1,989,089.06 E 2,500,891.42
C.C. N 1,987,945.17 E 2,500,919.45

Course from PT 220 to PC 230 88° 35' 46.5621" Dist 4,133.51'

Curve Data

Curve 230
P.I. Station 874+36.9044 N 1,989,204.06 E 2,505,584.32
Delta = 27° 26' 27.9274" (LT)
Degree = 2° 29' 40.0550"
Tangent = 560.80'
Length = 1,100.08'
Radius = 2,296.92'
External = 67.47'
Long Chord = 1,089.60'
Mid. Ord. = 65.54'
P.C. Station 868+76.1027 N 1,989,190.32 E 2,505,023.69
P.T. Station 879+76.1842 N 1,989,474.61 E 2,506,075.54
C.C. N 1,991,486.55 E 2,504,967.42

Course from PT 230 to PC 240 61° 09' 18.6347" Dist 1,959.49'

Curve Data

Curve 240
P.I. Station 907+13.2168 N 1,990,795.06 E 2,508,472.99
Delta = 27° 56' 48.1031" (RT)
Degree = 1° 50' 01.0258"
Tangent = 777.54'
Length = 1,524.13'
Radius = 3,124.74'
External = 95.29'
Long Chord = 1,509.06'
Mid. Ord. = 92.47'
P.C. Station 899+35.6757 N 1,990,419.95 E 2,507,791.92
P.T. Station 914+59.8040 N 1,990,807.25 E 2,509,250.44
C.C. N 1,987,682.90 E 2,509,299.42

Course from PT 240 to 250 89° 06' 06.7378" Dist 6,988.73'

Point 250 N 1,990,916.80 E 2,516,238.31 Sta 984+48.5329

Course from 250 to PC 260 88° 24' 20.3269" Dist 17,047.16'

Curve Data

Curve 260
P.I. Station 1157+70.6308 N 1,991,398.75 E 2,533,553.70
Delta = 26° 46' 11.0371" (RT)
Degree = 4° 57' 32.0674"
Tangent = 274.94'
Length = 539.83'
Radius = 1,155.41'
External = 32.26'
Long Chord = 534.93'
Mid. Ord. = 31.38'
P.C. Station 1154+95.6955 N 1,991,391.10 E 2,533,278.87
P.T. Station 1160+35.5267 N 1,991,281.80 E 2,533,802.52
C.C. N 1,990,236.14 E 2,533,311.02

Course from PT 260 to PC 270 115° 10' 31.3640" Dist 1,542.95'

Curve Data

Curve 270
P.I. Station 1180+52.1521 N 1,990,423.94 E 2,535,627.58
Delta = 12° 38' 05.0859" (RT)
Degree = 1° 20' 20.8792"
Tangent = 473.67'
Length = 943.50'
Radius = 4,278.57'
External = 26.14'
Long Chord = 941.59'
Mid. Ord. = 25.98'
P.C. Station 1175+78.4802 N 1,990,625.44 E 2,535,198.91
P.T. Station 1185+21.9820 N 1,990,133.56 E 2,536,001.81
C.C. N 1,986,753.29 E 2,533,378.84

Course from PT 270 to PC 280 127° 48' 36.4499" Dist 134.30'

Curve Data

Curve 280
P.I. Station 1188+62.6229 N 1,989,924.73 E 2,536,270.93
Delta = 14° 26' 59.2961" (RT)
Degree = 3° 31' 12.2060"
Tangent = 206.34'
Length = 410.50'
Radius = 1,627.69'
External = 13.03'
Long Chord = 409.41'
Mid. Ord. = 12.92'
P.C. Station 1186+56.2785 N 1,990,051.23 E 2,536,107.91
P.T. Station 1190+66.7777 N 1,989,761.56 E 2,536,397.23
C.C. N 1,988,765.28 E 2,535,110.06

Course from PT 280 to 32 142° 15' 35.7460" Dist 267.94'

Point 32 N 1,989,549.67 E 2,536,561.23 Sta 1193+34.7225

Ending chain IL72 description

REFERENCE TIES

POINT	CHAIN	STATION	OFFSET	DESCRIPTION
500	IL72	783+30.9307	47.2162' LT	TELEGRAPH POLE, NAIL
501	IL72	784+19.3343	24.4014' LT	GUARDRAIL STEEL PLATE BEAM, END
502	IL72	783+69.0157	24.2417' RT	GUARDRAIL STEEL PLATE BEAM, END
503	IL72	793+59.4953	60.0525' LT	TELEGRAPH POLE, NAIL
504	IL72	794+61.3211	60.0748' LT	TELEGRAPH POLE, NAIL
505	IL72	795+68.4815	59.1855' LT	TELEGRAPH POLE, NAIL
506	IL72	812+69.8377	20.5897' RT	HEADWALL, CORNER
507	IL72	812+91.6558	21.3722' LT	GUARDRAIL STEEL PLATE BEAM, BOLT
508	IL72	813+18.7446	27.8152' RT	HEADWALL, CROSS CUT
518	IL72	856+83.3888	38.8672' RT	FENCE POST, NAIL
519	IL72	856+57.7853	38.4909' RT	FENCE POST, NAIL
520	IL72	856+61.8561	17.1281' LT	POWER POLE, NAIL
542	IL72	985+33.5949	38.9345' RT	POWER POLE, NAIL
543	IL72	983+58.8794	38.9062' RT	POWER POLE, NAIL
553	IL72	1092+71.6393	38.0972' RT	POWER POLE, NAIL
554	IL72	1090+97.6587	40.1893' RT	POWER POLE, NAIL
555	IL72	1092+74.1647	40.415' LT	TELEPHONE POLE, NAIL
556	IL72	1092+23.6894	73.4161' LT	POWER POLE, NAIL

CURVE POINT NUMBERS

CHAIN	CURVE	PI	CC	PC	PT
IL72	200	200	201	202	203
IL72	210	210	211	212	213
IL72	220	220	221	222	223
IL72	230	230	231	232	233
IL72	240	240	241	242	243
IL72	260	260	261	262	263
IL72	270	270	271	272	273
IL72	280	280	281	282	283

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

HORIZONTAL & VERTICAL CONTROL

PLOT DATE = Fri, Dec 28, 13:52:41, 2007
 FILE NAME = c:\projects\210705\118785\hvc.dgn
 PLOT SCALE = 86.0000' / IN.
 USER NAME = gpfj

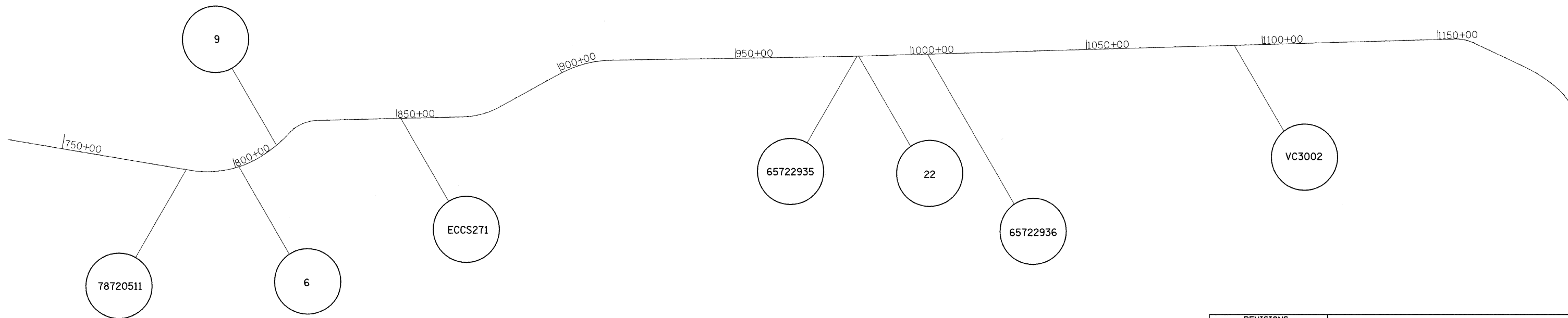
HORIZONTAL & VERTICAL CONTROL

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
549	117 T	OGLE	86	29
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

BENCH MARKS							
POINT	NORTH	EAST	ELEVATION	CHAIN	STATION	OFFSET	DESCRIPTION
402	1987912.8230	2495617.4450	715.0500	IL72	770+26.5688	43.3161' RT	R.O.W. MARKER, TOP
413	1989020.7400	2500593.8120	731.4260	IL72	824+34.2387	20.4508' RT	HEADWALL, CROSS CUT
423	1989963.2530	2506998.1600	709.7460	IL72	890+20.0705	17.0906' RT	HANDRAIL, DISK
434	1990813.3370	2511270.7050	755.2690	IL72	934+79.9189	25.5815' RT	HEADWALL, CROSS CUT
447	1990936.9680	2520515.6380	808.0050	IL72	1027+24.7686	98.8452' RT	PIPE, TOP
467	1990857.1900	2534768.7710	692.5920	IL72	1170+90.6183	26.7611' LT	HEADWALL, CROSS CUT
469	1990281.3090	2535925.6190	726.8220	IL72	1183+73.6998	72.6337' LT	POWER POLE WITH TRANSFORMER
473	1987680.2990	2497127.6580	717.2780	IL72	785+54.3539	17.1756' RT	DISK, HANDRAIL
474	1988352.6920	2499726.7030	717.1570	IL72	813+18.7461	27.7866' RT	HEADWALL, CROSS CUT
479	1990725.3060	2508788.4290	711.0950	IL72	909+88.8231	39.7157' RT	R.O.W. MARKER, TOP
480	1990889.3670	2513167.7800	810.2430	IL72	953+77.9525	20.7031' LT	HEADWALL, CROSS CUT
482	1990981.6380	2519448.9460	794.3980	IL72	1016+59.7324	24.5138' RT	HEADWALL, CROSS CUT
485	1991331.0410	2530389.3910	716.6370	IL72	1126+05.6634	20.3565' LT	HEADWALL, CROSS CUT
486	1991326.1010	2531915.2150	711.7460	IL72	1141+30.7592	27.0348' RT	HEADWALL, CROSS CUT

HORIZONTAL CONTROL POINTS							
POINT	NORTH	EAST	ELEVATION	CHAIN	STATION	OFFSET	DESCRIPTION
78720511	1987757.4910	2497174.6230	709.3650	IL72	785+87.5927	66.8452' LT	VERTICAL CONTROL STATION, DISK
6	1987773.2760	2498654.2240	712.4320	IL72	800+97.5122	0.0000'	POC, PK NAIL
9	1988382.8770	2499719.5700	717.8080	IL72	813+32.4792	0.0000'	POC, PK NAIL
ECCS271	1989241.6280	2503255.0850	716.2090	IL72	851+09.2875	94.6178' LT	VERTICAL CONTROL STATION
65722935	1990878.9220	2516247.3030	861.6160	IL72	984+56.4710	38.1103' RT	DISTRICT NETWORK MONUMENT, PERM. SURVEY MARKER
22	1990918.4880	2516299.0710	860.2580	IL72	985+09.3198	0.0000'	POT, PK NAIL
65722936	1991006.8740	2518261.5710	832.4540	IL72	1004+73.5192	33.7489' LT	DISTRICT NETWORK MONUMENT, PERM. SURVEY MARKER
VC3002	1991179.0350	2526989.3620	785.2050	IL72	1092+02.7214	36.9912' RT	TRAVERSE STATION

SURVEY WORK POINTS							
POINT	NORTH	EAST	ELEVATION	CHAIN	STATION	OFFSET	DESCRIPTION
101	1991073.3760	2523372.5600	783.3530	IL72	1055+84.3798	41.9786' RT	GPS CONTROL POINT, PIN
100	1991139.8930	2522820.4390	801.3180	IL72	1050+34.3233	39.8744' LT	TRAVERSE STATION
101	1991073.3760	2523372.5600	783.3530	IL72	1055+84.3798	41.9786' RT	TRAVERSE STATION
102	1992147.9870	2523133.5820	754.4200	IL72	1053+75.3934	1038.8655' LT	TRAVERSE STATION, NAIL
102	1992147.9870	2523133.5820	754.4200	IL72	1053+75.3934	1038.8655' LT	TRAVERSE STATION
100	1991139.8930	2522820.4390	801.3180	IL72	1050+34.3233	39.8744' LT	TRAVERSE STATION
106	1987807.8200	2498806.0090	712.5380	IL72	802+51.5997	18.4917' RT	TOPO SURVEY POINT, PIN



PLOT DATE = Fri Dec 28 13:52:42 2007
 FILE NAME = c:\p\projects\1210705\110705hvc.dgn
 PLOT SCALE = 50.0000 / IN.
 USER NAME = gertyj

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

SCALE: VERT.
 HORIZ.
 DATE

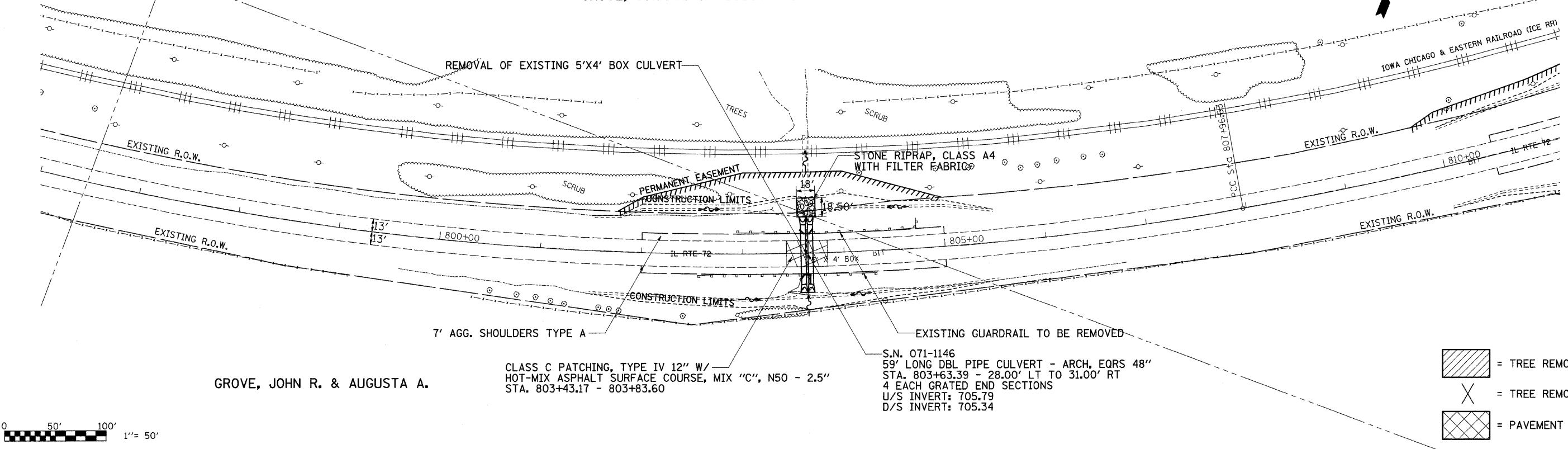
DRAWN BY
 CHECKED BY

HORIZONTAL & VERTICAL CONTROL

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
549	117 T	OGLE	86	31
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

GROVE, JOHN R. & AUGUSTA A.

PLAN	SURVEYED	BY	DATE
	ALIGNED		
	NOTED		
	FILED		



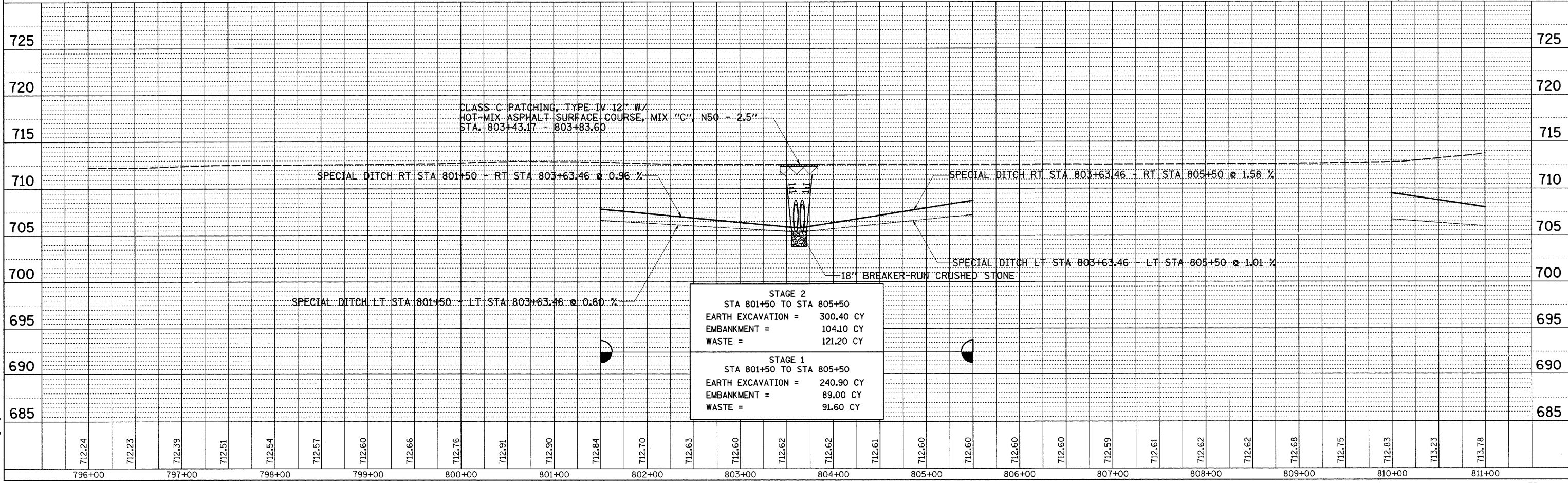
GROVE, JOHN R. & AUGUSTA A.



- = TREE REMOVAL (ACRES)
- = TREE REMOVAL (EACH)
- = PAVEMENT REMOVAL

PROFILE	SURVEYED	BY	DATE
	NOTED		
	FILED		

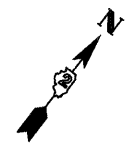
PLOT DATE = Fri, Dec 28 13:52:44, 2007
 FILE NAME = c:\p\3\1\sta\p2187\06\107\05p1.dgn
 PLOT SCALE = 50.00000 / IN.
 USER NAME = 9077JJ



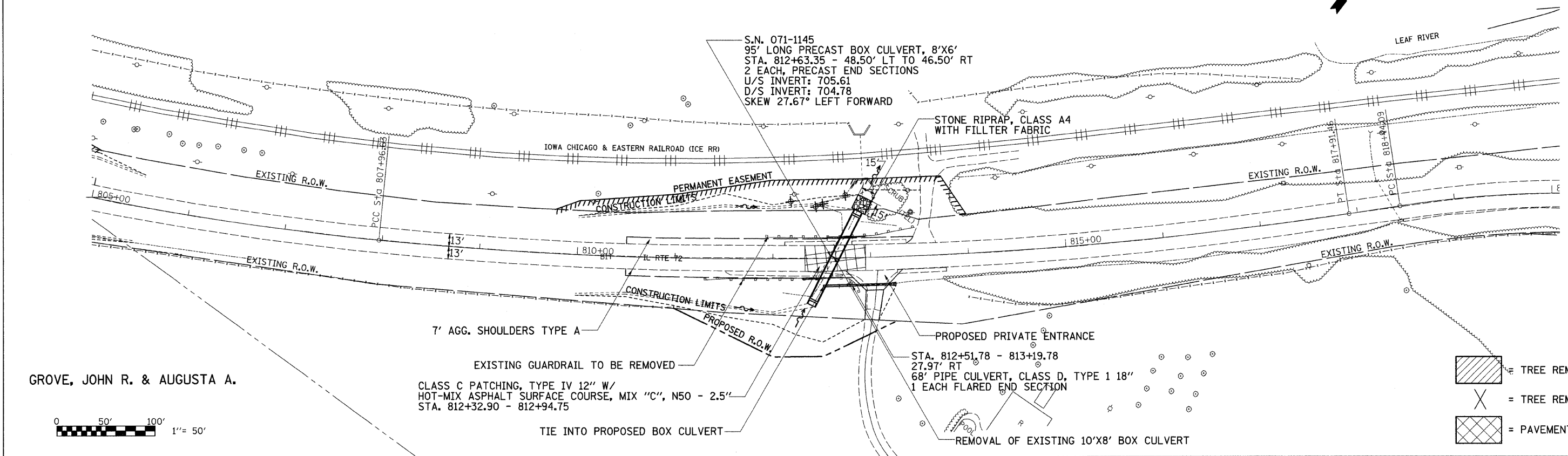
STAGE 2	
STA 801+50 TO STA 805+50	
EARTH EXCAVATION =	300.40 CY
EMBANKMENT =	104.10 CY
WASTE =	121.20 CY
STAGE 1	
STA 801+50 TO STA 805+50	
EARTH EXCAVATION =	240.90 CY
EMBANKMENT =	89.00 CY
WASTE =	91.60 CY

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
549	117 T	OGLE	86	32
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

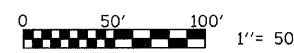
GROVE, JOHN R. & AUGUSTA A.



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

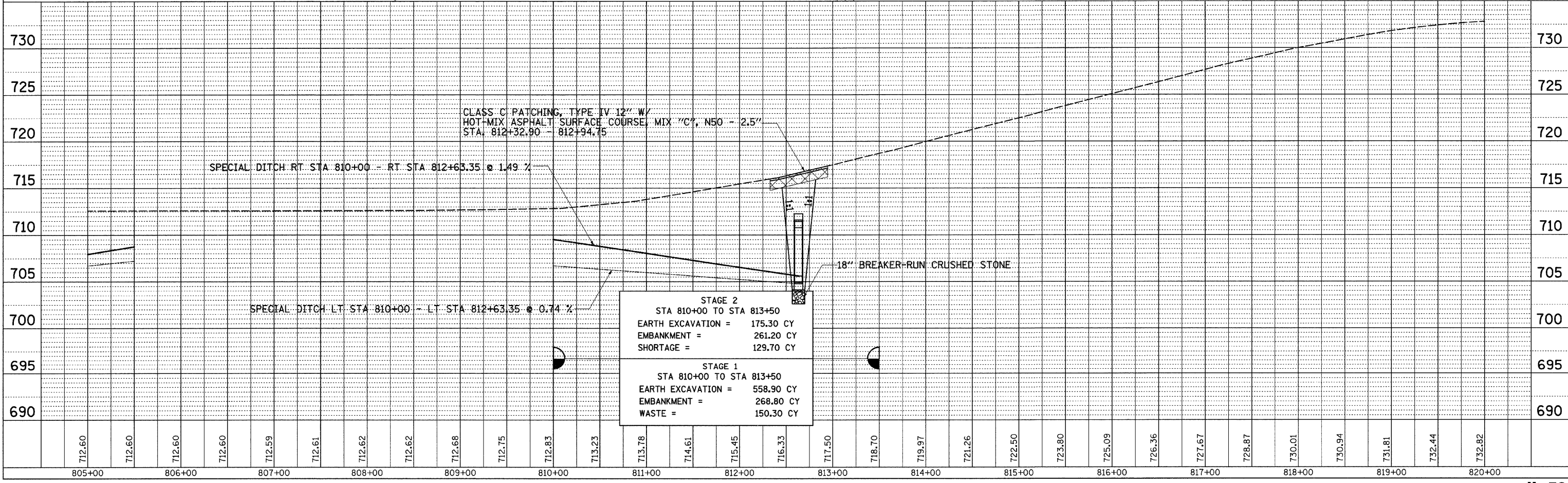


GROVE, JOHN R. & AUGUSTA A.



- = TREE REMOVAL (ACRES)
- = TREE REMOVAL (EACH)
- = PAVEMENT REMOVAL

PROFILE	SURVEYED	BY	DATE
	ALIGNED		
	NOTED		
	STRUCTURE NOTATION CHECKED		
	NO.		



PLOT DATE = Fri, Dec 28 13:52:45 2007
 FILE NAME = c:\projects\210705\10705pln.dgn
 PLOT SCALE = 50.0000 / IN.
 USER NAME = gorfjl

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
549	117 T	OGLE	86	33
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		



WINTERTON, CHARLES E.

REMOVAL OF EXISTING 7'X4' BOX CULVERT

EXISTING GUARDRAIL TO BE REMOVED

STONE RIPRAP, CLASS A4 WITH FILTER FABRIC

REMOVE SIGN
PROPOSED R.O.W.

CONSTRUCTION LIMITS

(TEL)

ROCK

EXISTING R.O.W.

SCRUB

1050+00

1055+00

1060+00

IL RTE 72

EXISTING R.O.W.

EXISTING R.O.W.

7' AGG. SHOULDERS TYPE A

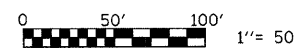
PROPOSED R.O.W.

CLASS C PATCHING, TYPE IV 12" W/
HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N50 - 2.5"
STA. 1055+94.47 - 1056+58.43

S.N. 071-1144
123.50' LONG PRECAST BOX CULVERT 7' X 4'
STA. 1056+26.39 - 73.00' LT TO 50.50' RT
PRECAST END SECTION - LT
PRECAST DROP BOX - RT 7' X 7' X 8.5' (SEE DETAIL)
U/S INVERT: 768.11
D/S INVERT: 767.33
SKEW 22.54° RIGHT FORWARD

PEARSON, JEFF

- = TREE REMOVAL (ACRES)
- = TREE REMOVAL (EACH)
- = PAVEMENT REMOVAL



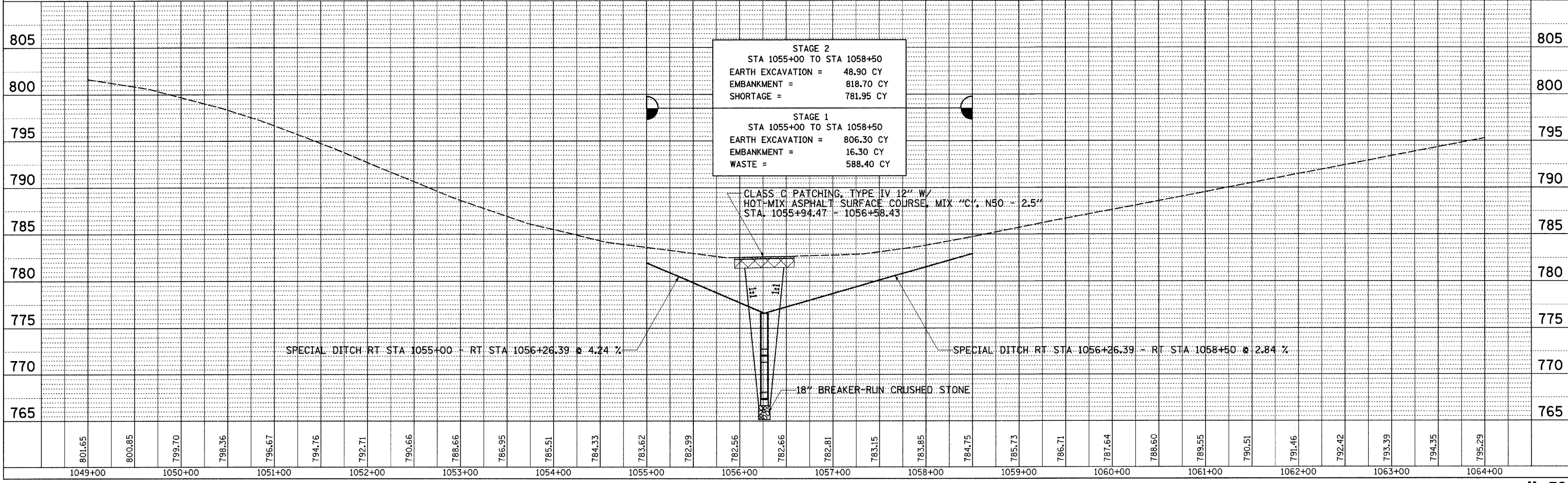
DATE	BY

PLANNED BY: _____
 SURVEYED BY: _____
 CHECKED BY: _____
 DATE: _____
 PROJECT NO.: _____
 SHEET NO.: _____

DATE	BY

PROF. FILED BY: _____
 CHECKED BY: _____
 DATE: _____
 PROJECT NO.: _____
 SHEET NO.: _____

PLOT DATE = Fri, Dec 28 13:52:46 2007
 FILE NAME = c:\projects\64844\210706\10706p1.dgn
 PLOT SCALE = 50.0000 / IN.
 USER NAME = jeffj



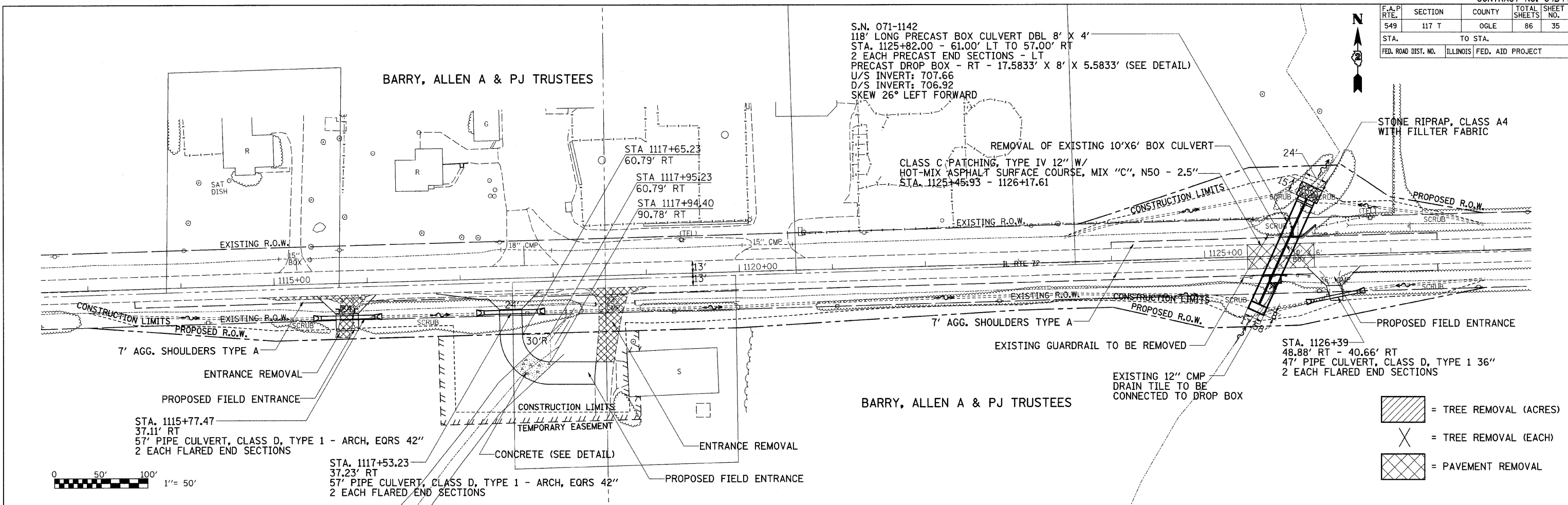
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
549	117 T	OGLE	86	35

STA. TO STA. ILLINOIS FED. AID PROJECT

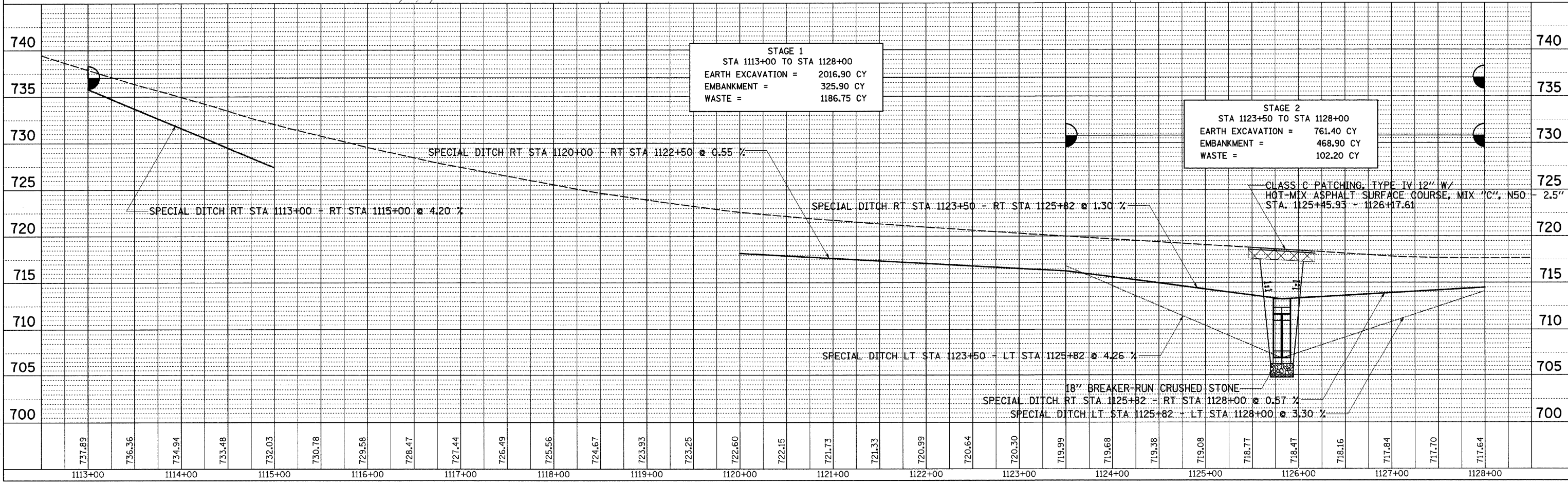
DATE	BY	REVISION

DATE	BY	REVISION

PLOT DATE = Fri Dec 28 13:52:48 2007
 FILE NAME = c:\projects\64b44\117\117.dgn
 PLOT SCALE = 1/8" = 1' / IN.
 USER NAME = gpf/jl

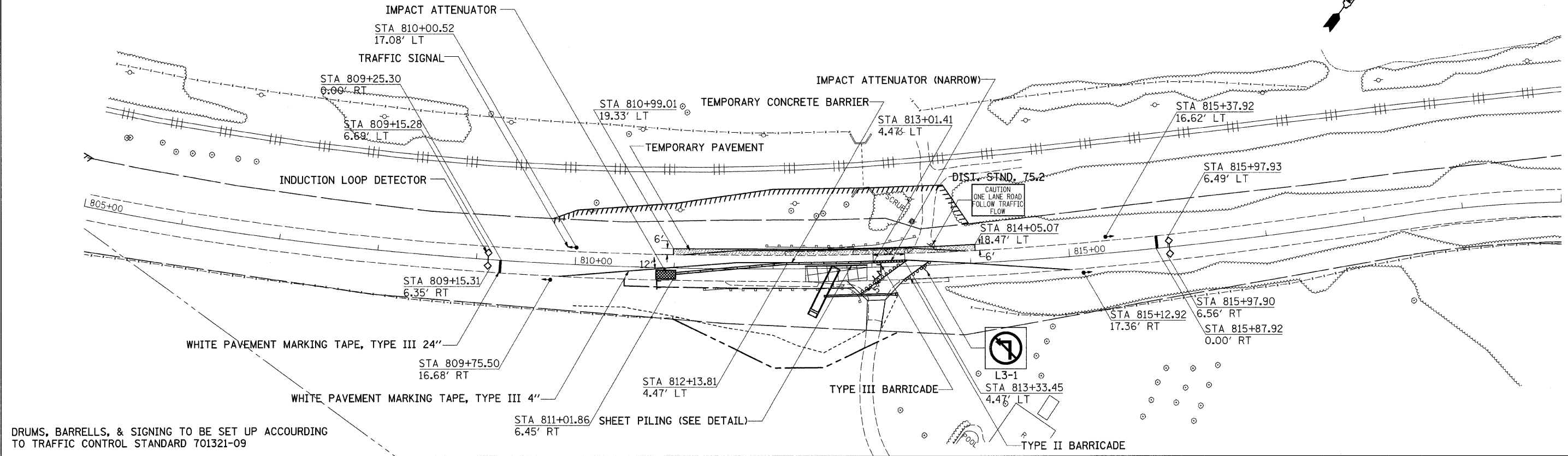
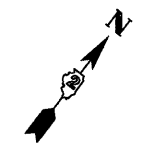


- = TREE REMOVAL (ACRES)
- = TREE REMOVAL (EACH)
- = PAVEMENT REMOVAL



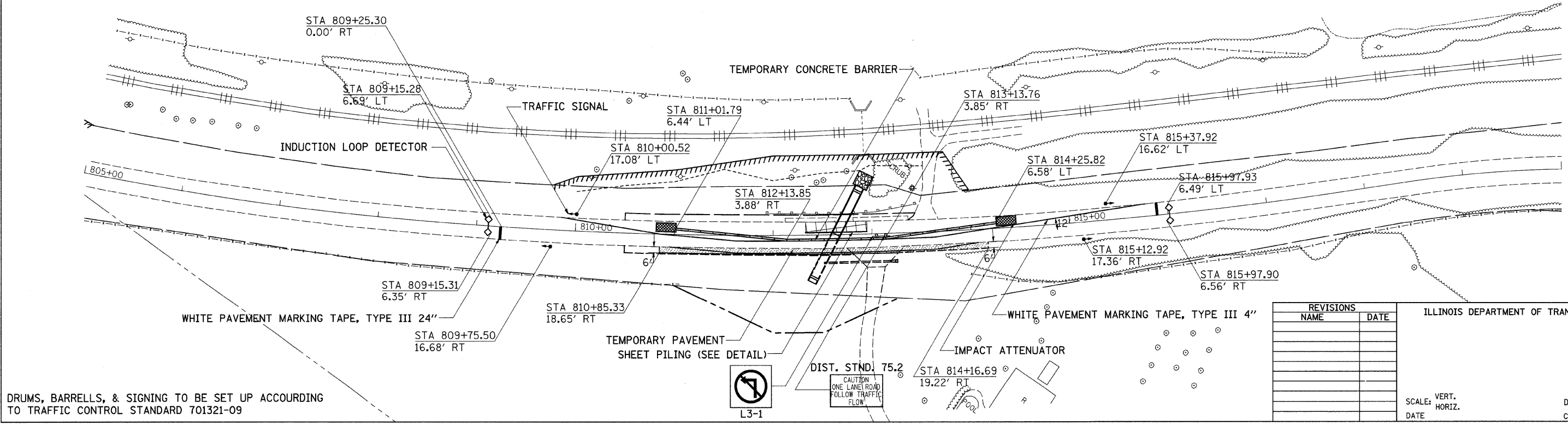
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
549	117 T	OGLE	86	36
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

STAGE 1



DRUMS, BARRELS, & SIGNING TO BE SET UP ACCORDING TO TRAFFIC CONTROL STANDARD 701321-09

STAGE 2



DRUMS, BARRELS, & SIGNING TO BE SET UP ACCORDING TO TRAFFIC CONTROL STANDARD 701321-09

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

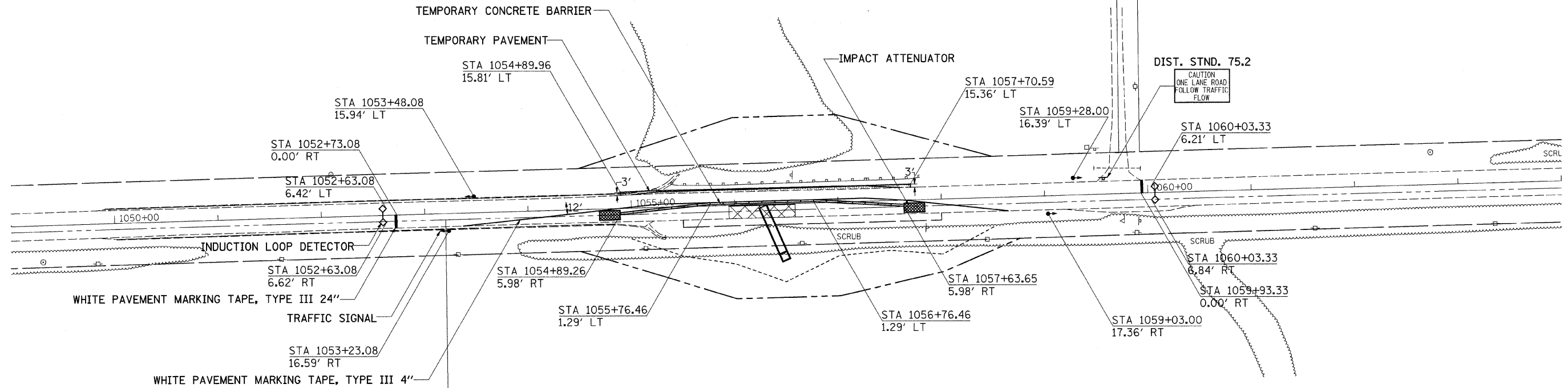
SCALE: VERT. _____
HORIZ. _____
DATE _____

DRAWN BY _____
CHECKED BY _____

PLOT DATE = Fri, Dec 28, 13:53:04, 2007
 FILE NAME = c:\p\projects\210706\10706\10706.dgn
 PLOT SCALE = 50.0000' / IN.
 USER NAME = gofj.j

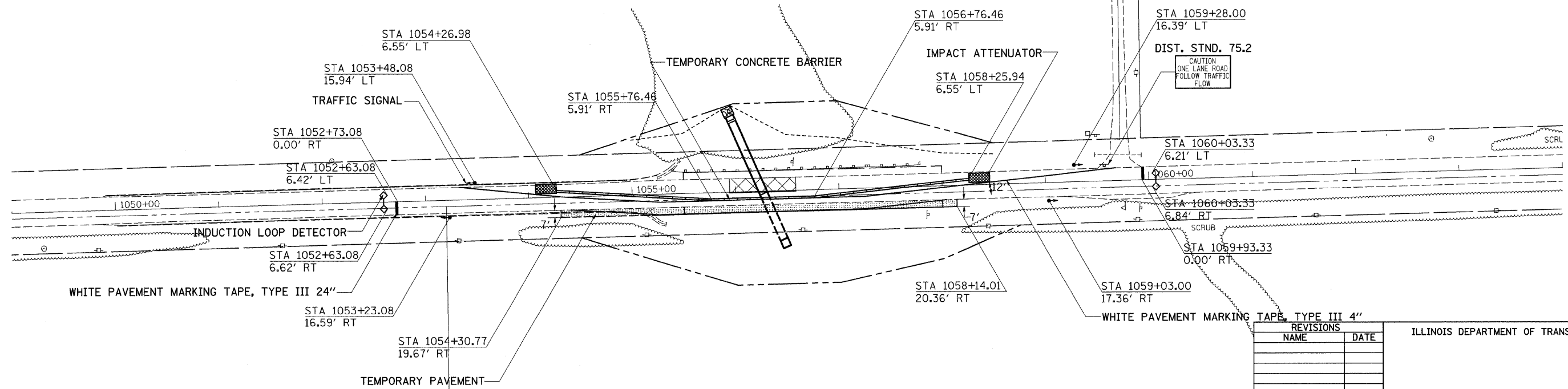
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
549	117 T	OGLE	86	37
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

STAGE 1



DRUMS, BARRELS, & SIGNING TO BE SET UP ACCORDING TO TRAFFIC CONTROL STANDARD 701321-09

STAGE 2



DRUMS, BARRELS, & SIGNING TO BE SET UP ACCORDING TO TRAFFIC CONTROL STANDARD 701321-09

PLOT DATE = Fri, Dec 28 13:45:05 2007
 FILE NAME = c:\p\projects\1210705\dl1705+ag.dgn
 PLOT SCALE = 80.0000 / IN.
 USER NAME = gpf7j

REVISIONS	
NAME	DATE

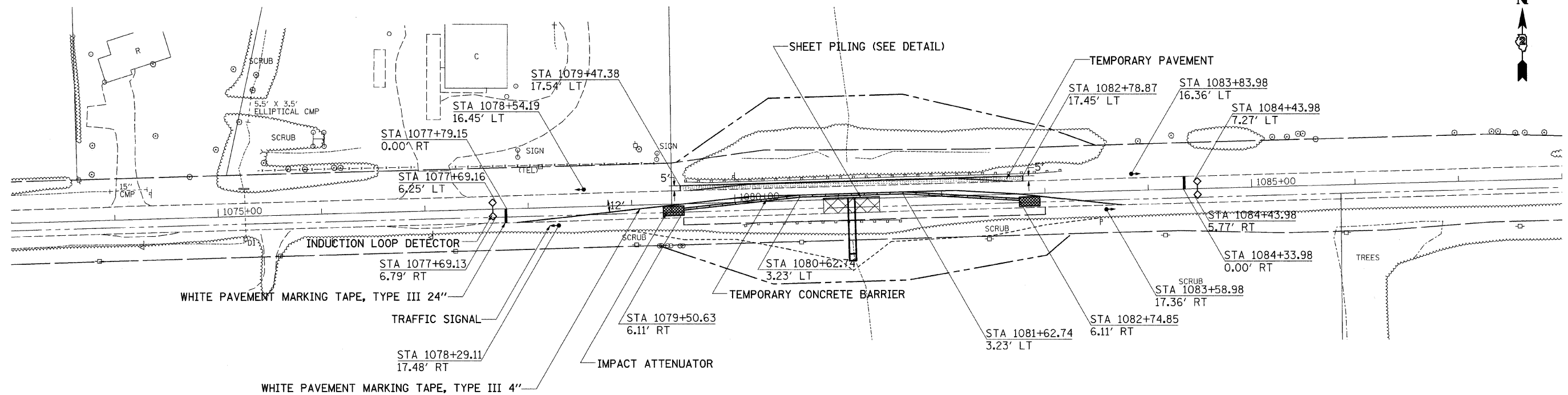
ILLINOIS DEPARTMENT OF TRANSPORTATION

SCALE: VERT. _____
 HORIZ. _____
 DATE _____

DRAWN BY _____
 CHECKED BY _____

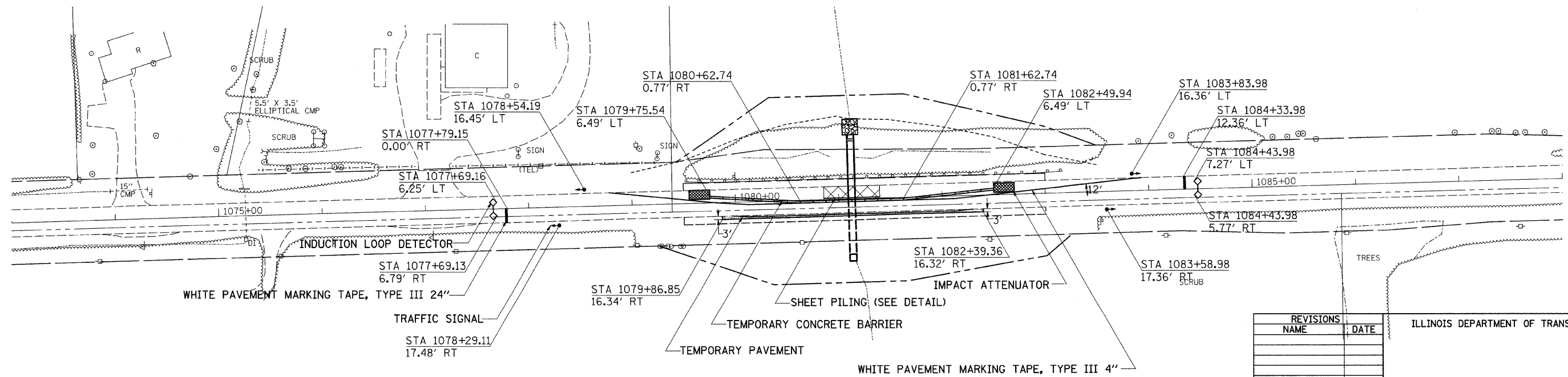
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
549	117 T	OGLE	86	38
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

STAGE 1



DRUMS, BARRELS, & SIGNING TO BE SET UP ACCORDING TO TRAFFIC CONTROL STANDARD 701321-09

STAGE 2



DRUMS, BARRELS, & SIGNING TO BE SET UP ACCORDING TO TRAFFIC CONTROL STANDARD 701321-09

PLOT DATE = Fri, Dec 28 13:45:30 2007
 FILE NAME = c:\projects\64b44\117t\stage1.dgn
 PLOT SCALE = 5/8" = 1' IN.
 USER NAME = gpfj

REVISIONS	
NAME	DATE

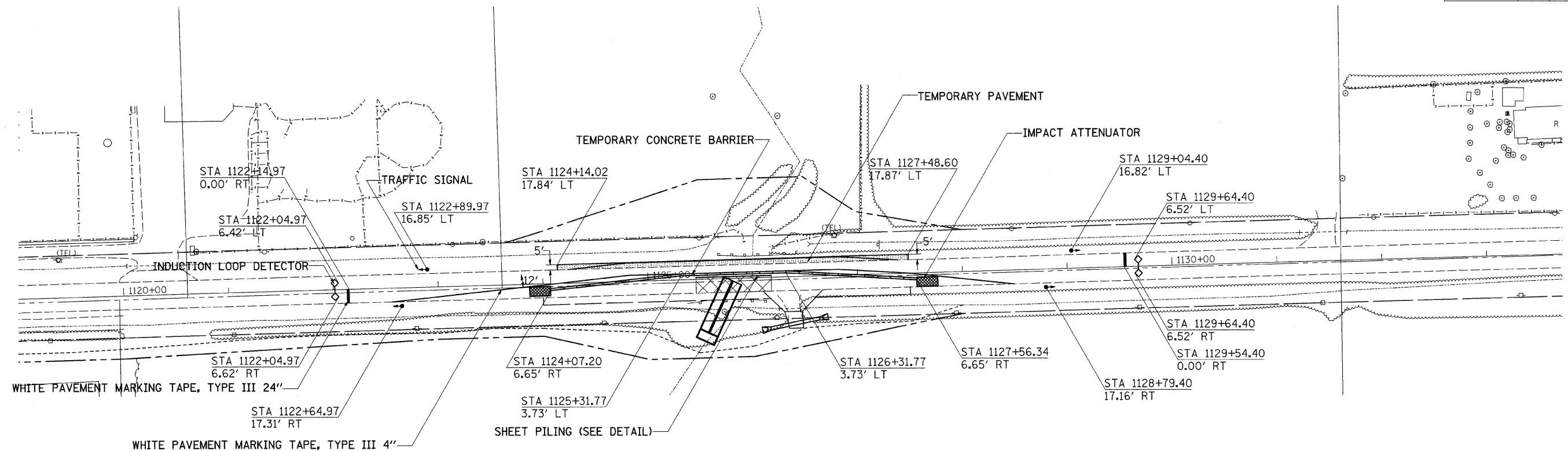
ILLINOIS DEPARTMENT OF TRANSPORTATION

SCALE: VERT. _____
 HORIZ. _____
 DATE _____

DRAWN BY _____
 CHECKED BY _____

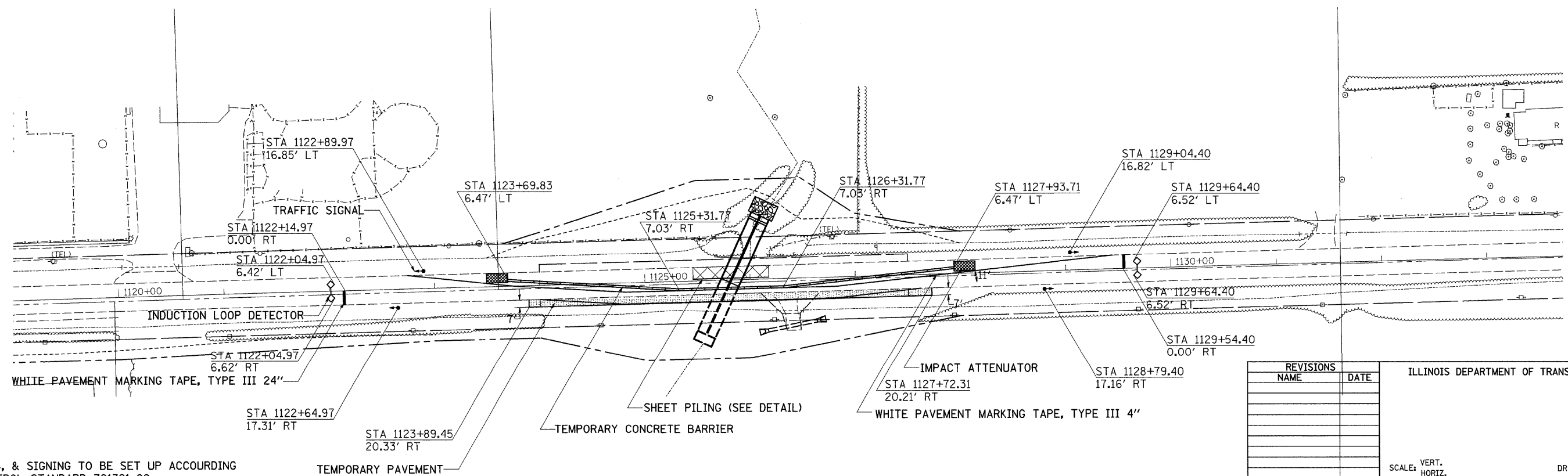
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
549	117 T	OGLE	86	39
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

STAGE 1



DRUMS, BARRELS, & SIGNING TO BE SET UP ACCORDING TO TRAFFIC CONTROL STANDARD 701321-09

STAGE 2



DRUMS, BARRELS, & SIGNING TO BE SET UP ACCORDING TO TRAFFIC CONTROL STANDARD 701321-09

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

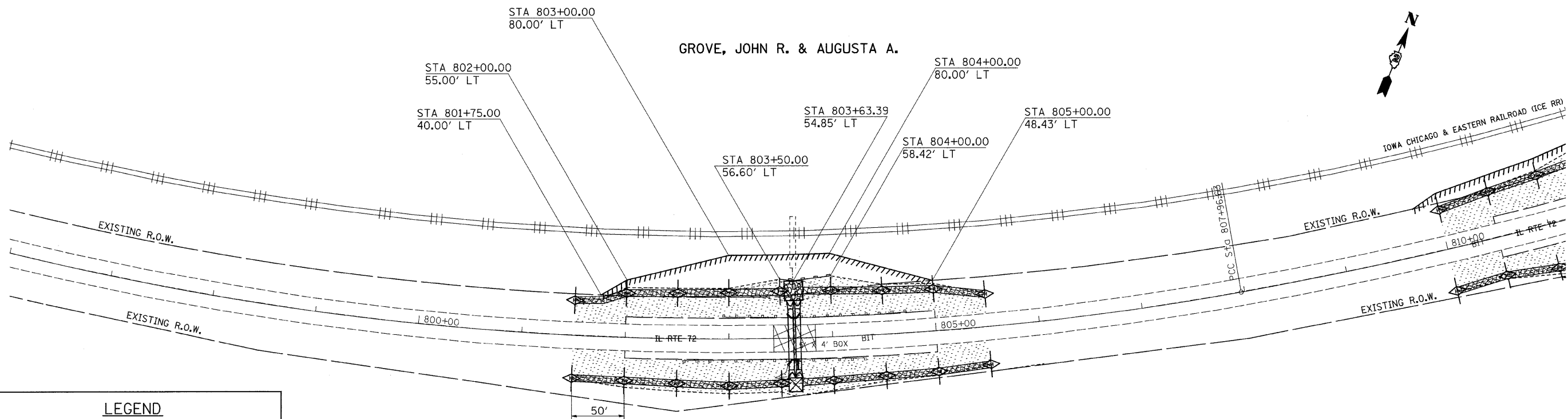
DRAWN BY _____ CHECKED BY _____

STAGING DETAILS






PLOT DATE = Fri, Dec 28, 13:53:05, 2007
 FILE NAME = c:\p\projects\117\117105\117105.dgn
 PLOT SCALE = 50.00000 / IN.
 USER NAME = gorfj

EROSION CONTROL, SEEDING, & R.O.W. DETAILS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
549	117 T	OGLE	86	40
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

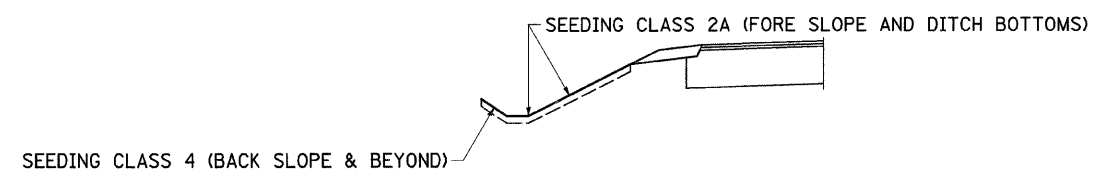


LEGEND

-  = EROSION CONTROL BLANKET
-  = SEEDING (SEE DETAIL)
-  = INLET PIPE PROTECTION
-  = PERIMETER EROSION BARRIER
-  = TEMPORARY DITCH CHECK

GROVE, JOHN R. & AUGUSTA A.

SEEDING DETAIL



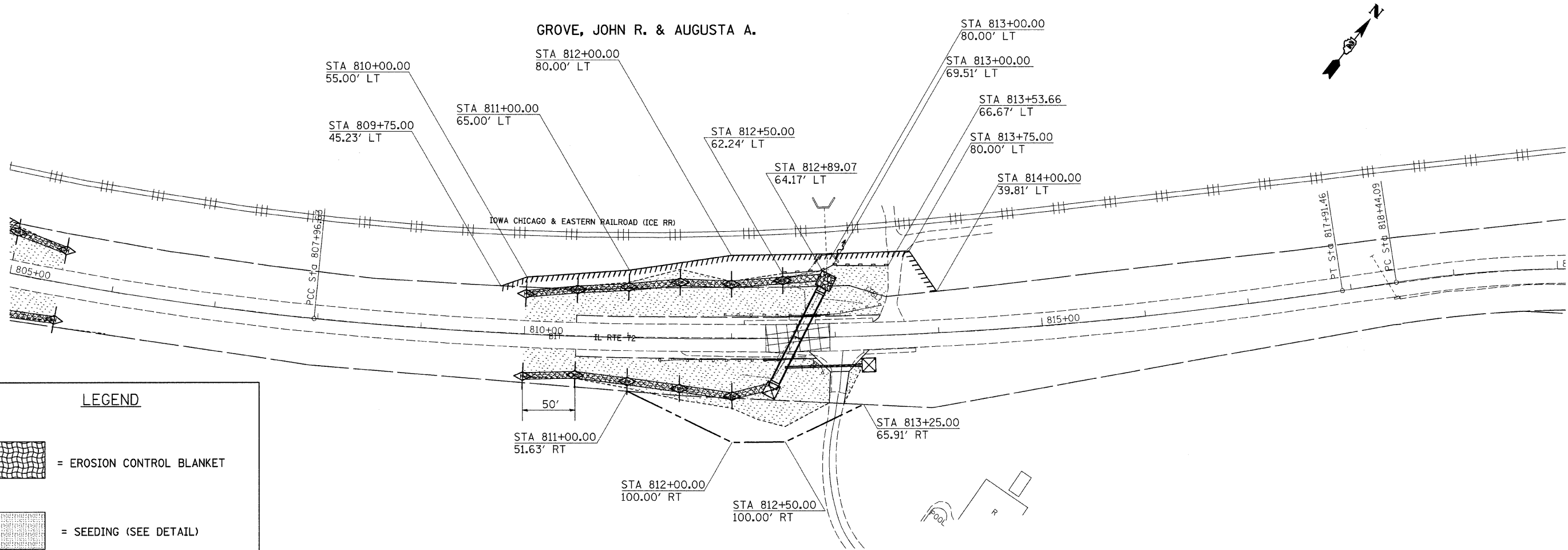
PLOT DATE = Fri, Dec 28, 13:52:54, 2007
 FILE NAME = c:\projects\117705\117705.dwg
 PLOT SCALE = 50.0000 / IN.
 USER NAME = gorfj








REVISIONS		ILLINOIS DEPARTMENT OF TRANSPORTATION
NAME	DATE	
		SCALE: VERT. / HORIZ. DATE
DRAWN BY		CHECKED BY

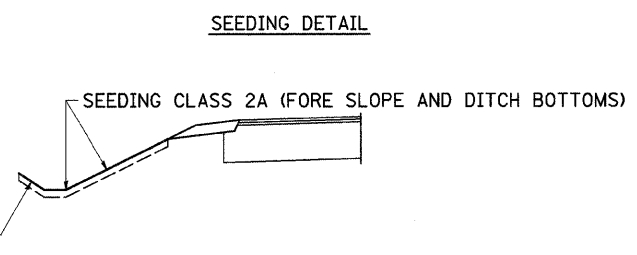
EROSION CONTROL, SEEDING, & R.O.W. DETAILS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
549	117 T	OGLE	86	41
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

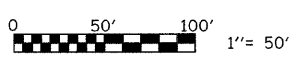


LEGEND

-  = EROSION CONTROL BLANKET
-  = SEEDING (SEE DETAIL)
-  = INLET PIPE PROTECTION
-  = PERIMETER EROSION BARRIER
-  = TEMPORARY DITCH CHECK



GROVE, JOHN R. & AUGUSTA A.

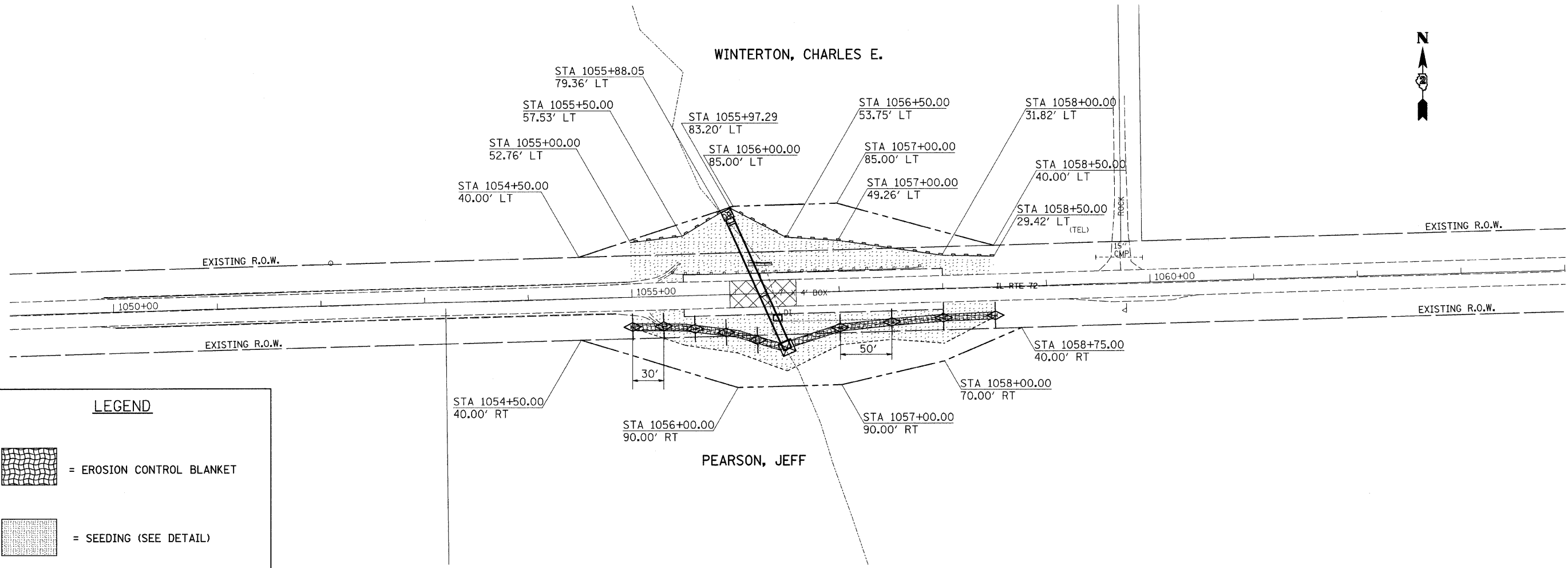


REVISIONS		ILLINOIS DEPARTMENT OF TRANSPORTATION
NAME	DATE	
SCALE:	VERT. DATE	DRAWN BY
	HORIZ. DATE	CHECKED BY






PLOT DATE = Fri Dec 28 13:52:55 2007
 FILE NAME = c:\projects\2107185\18785.dwg
 PLOT SCALE = 50.0000' / IN.
 USER NAME = goff,j

EROSION CONTROL, SEEDING, & R.O.W. DETAILS

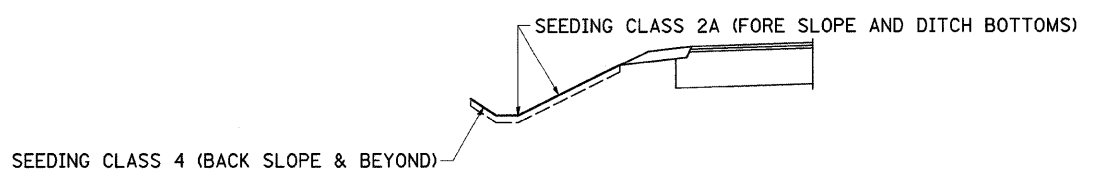
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
549	117 T	OGLE	86	42
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		



LEGEND

-  = EROSION CONTROL BLANKET
-  = SEEDING (SEE DETAIL)
-  = INLET PIPE PROTECTION
-  = PERIMETER EROSION BARRIER
-  = TEMPORARY DITCH CHECK

SEEDING DETAIL



PLOT DATE = Fri, Dec 28 13:45:26 2007
 FILE NAME = c:\projects\117\11705\dl18705-rod.dgn
 PLOT SCALE = 1/8"=1'-0"
 USER NAME = gertj

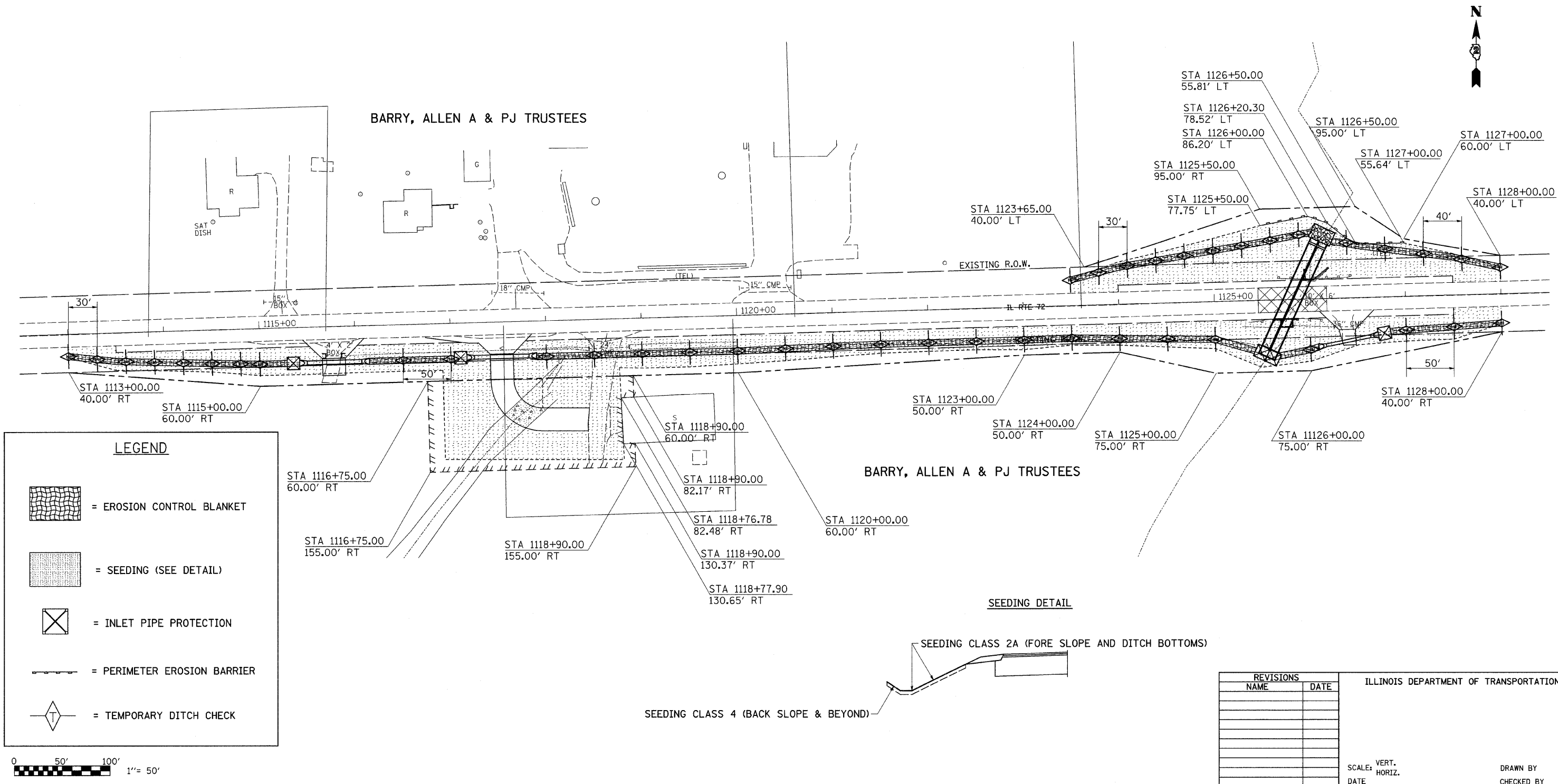


REVISIONS		ILLINOIS DEPARTMENT OF TRANSPORTATION
NAME	DATE	
		SCALE: VERT. HORIZ. DATE






DRAWN BY _____
 CHECKED BY _____

EROSION CONTROL, SEEDING, & R.O.W. DETAILS

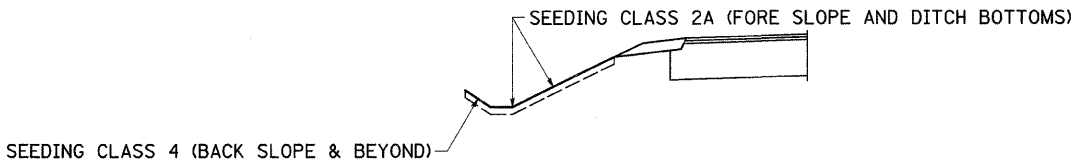
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
549	117 T	OGLE	86	44
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		



LEGEND

-  = EROSION CONTROL BLANKET
-  = SEEDING (SEE DETAIL)
-  = INLET PIPE PROTECTION
-  = PERIMETER EROSION BARRIER
-  = TEMPORARY DITCH CHECK

SEEDING DETAIL

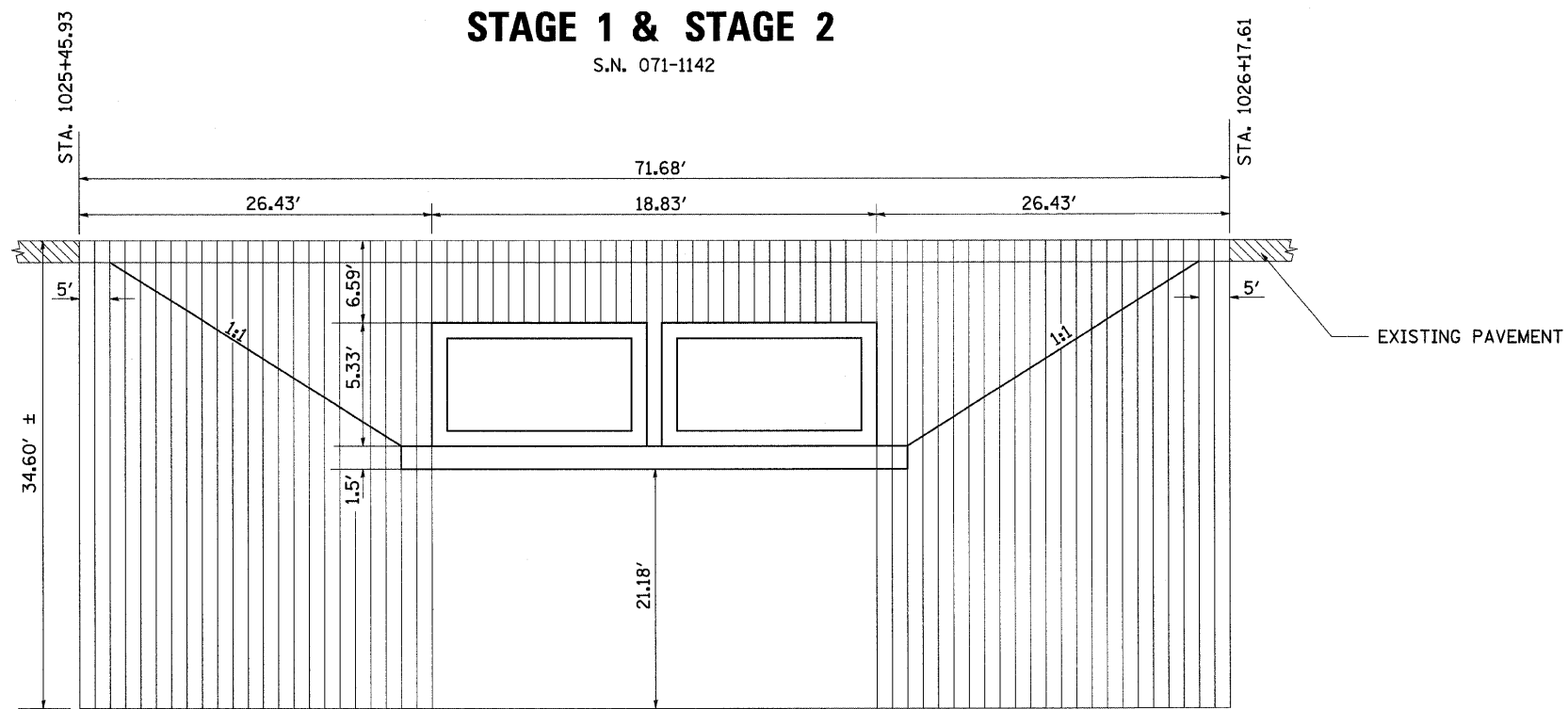
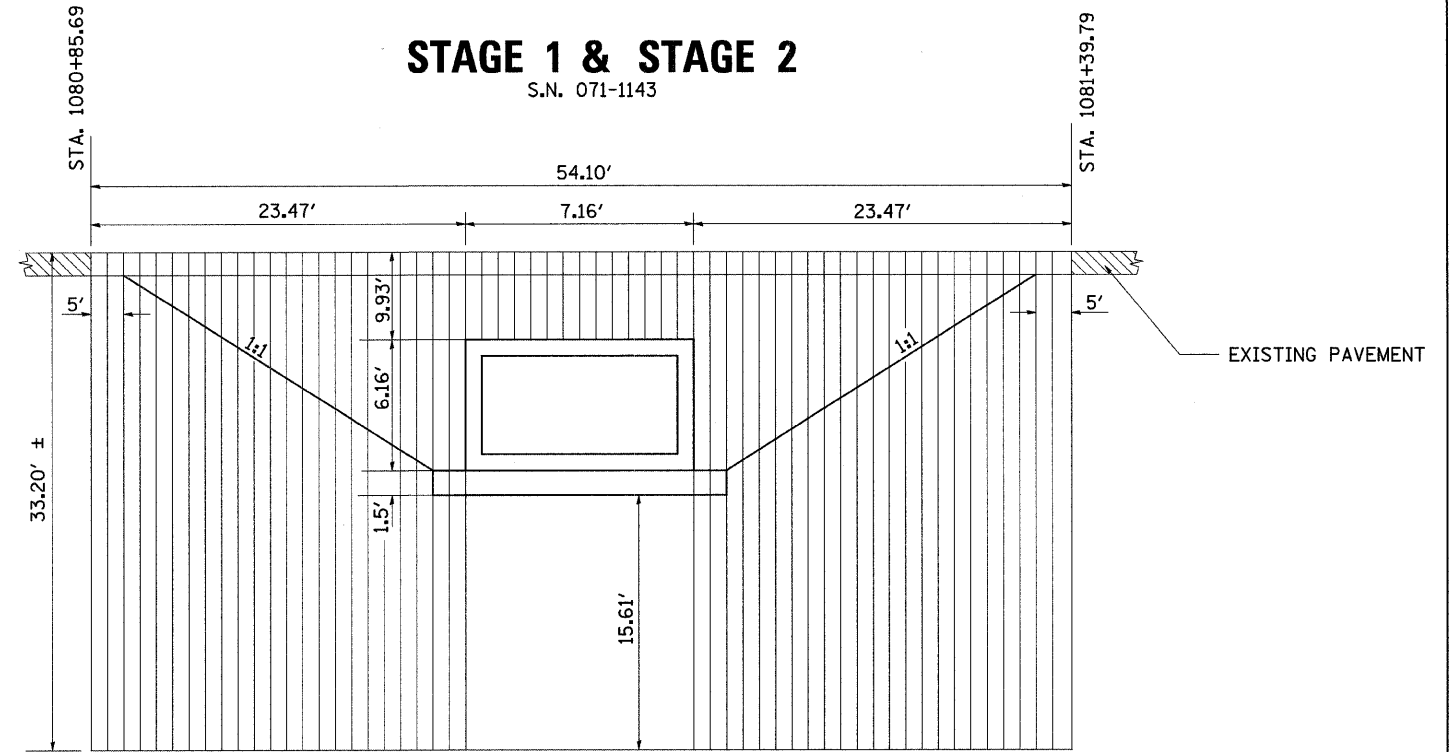
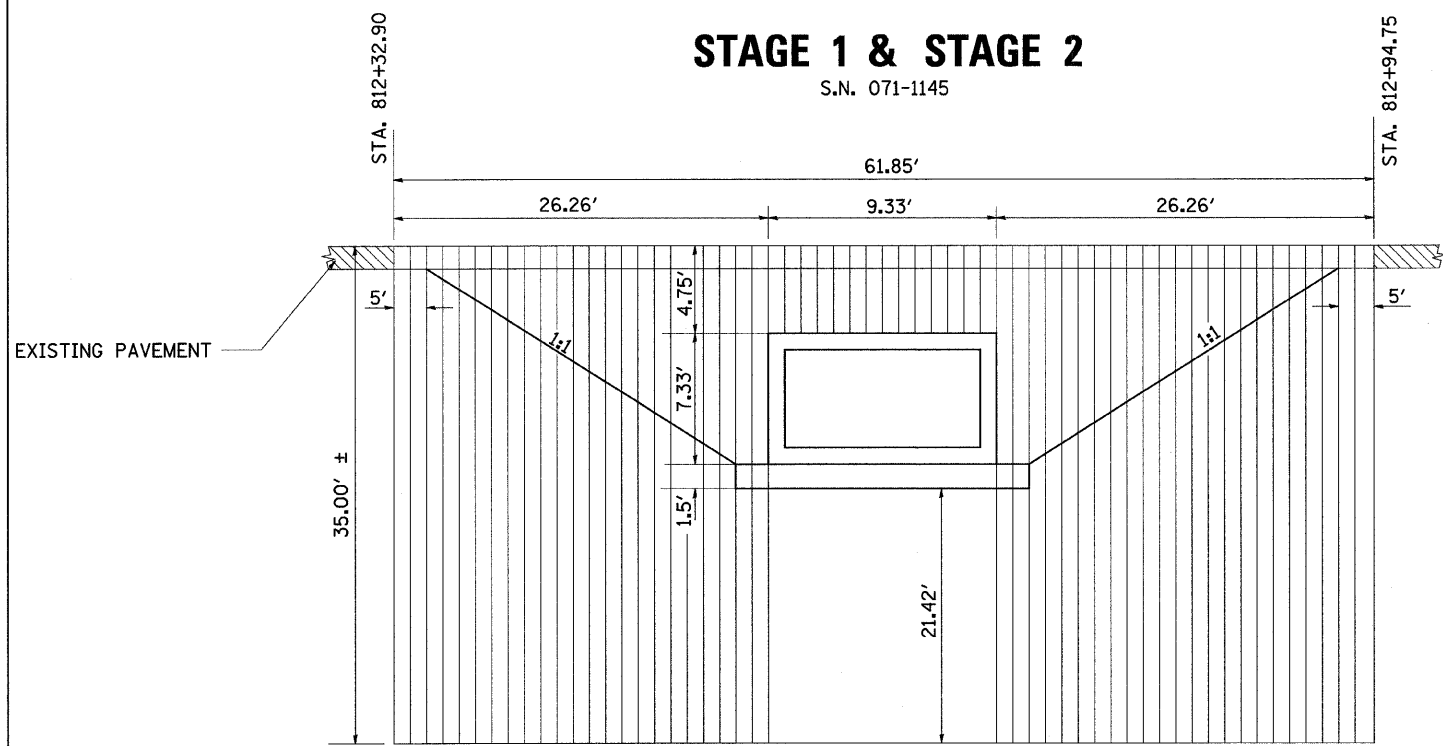


REVISIONS		ILLINOIS DEPARTMENT OF TRANSPORTATION
NAME	DATE	
		SCALE: VERT. / HORIZ. / DATE
DRAWN BY		DRAWN BY / CHECKED BY
CHECKED BY		

PLOT DATE = Fri, Dec 29, 13:52:56, 2007
 FILE NAME = c:\p\projects\210706\11706\11706.dgn
 PLOT SCALE = 50.0000' / IN.
 USER NAME = gofj

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
549	117 T	OGLE	86	45
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

SHEET PILING DETAIL

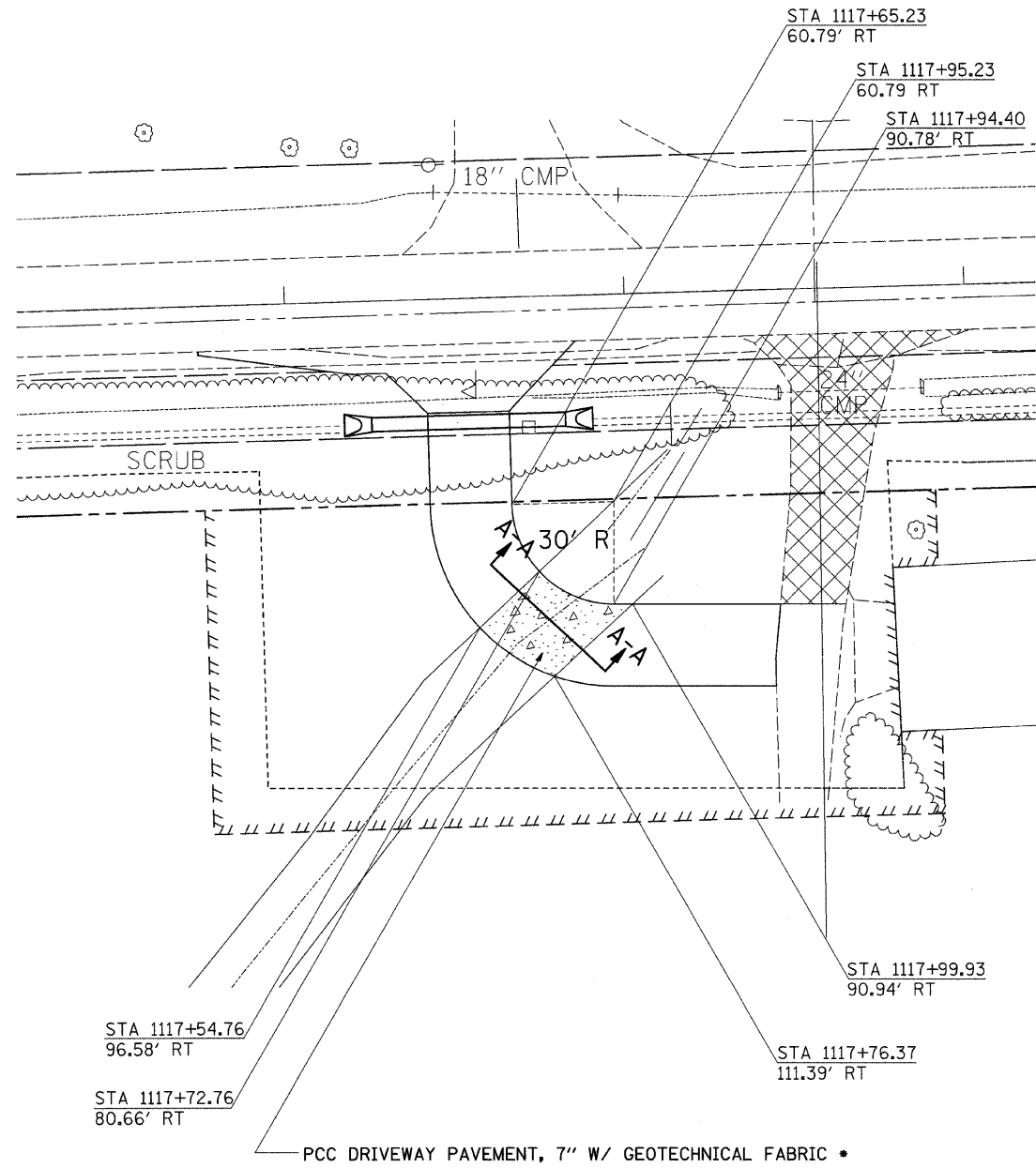


PLOT DATE = Fri, Dec 28, 13:52:58, 2007
 FILE NAME = c:\projects\117\11705\11705sp.dgn
 PLOT SCALE = 5/8" = 1' IN.
 USER NAME = gpfj

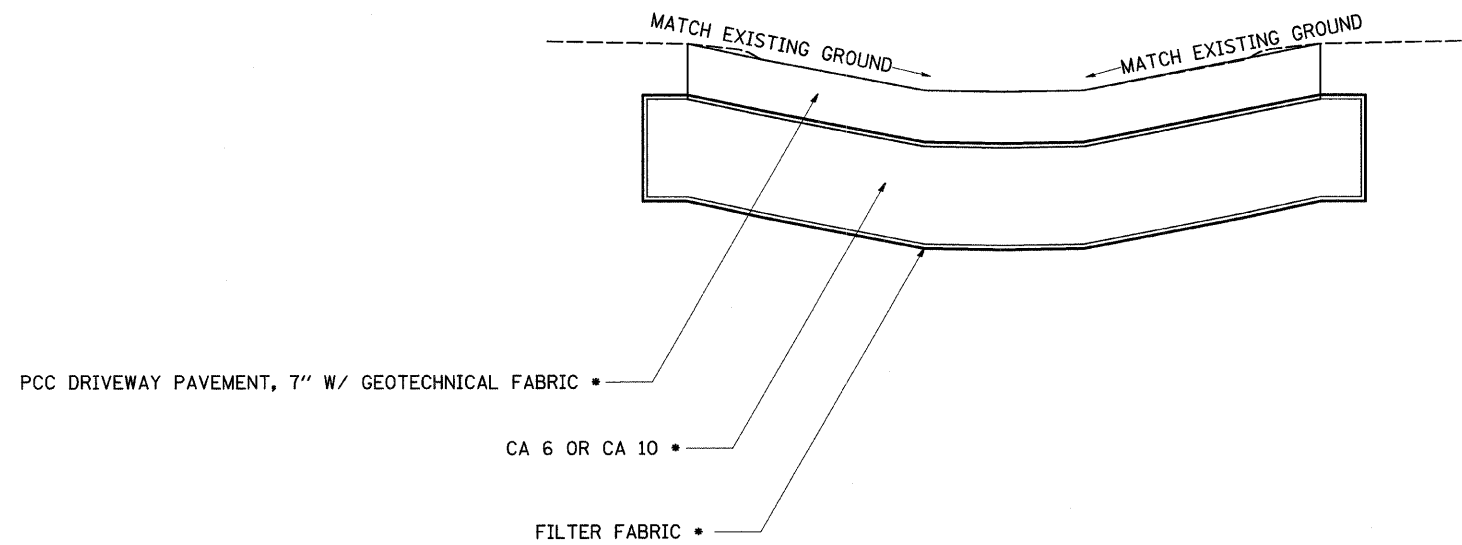
NOTE: THE CONTRACTOR SHALL SUBMIT A DESIGN FOR THE TEMP. SHEET PILING, INCLUDING SHEETING OVER CULVERT

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
549	117 T	OGLE	86	46
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

ENTRANCE DETAIL



SECTION A-A



* GEOTECHNICAL FABRIC, CA 6 OR CA 10, AND FILTER FABRIC ARE TO BE INCLUDED IN THE COST OF PCC DRIVEWAY PAVEMENT, 7"

PLOT DATE = Fri, Dec 28 13:52:58, 2007
 FILE NAME = c:\projects\218706\118706.dwg
 PLOT SCALE = 50.0000 / IN.
 USER NAME = 9077JL

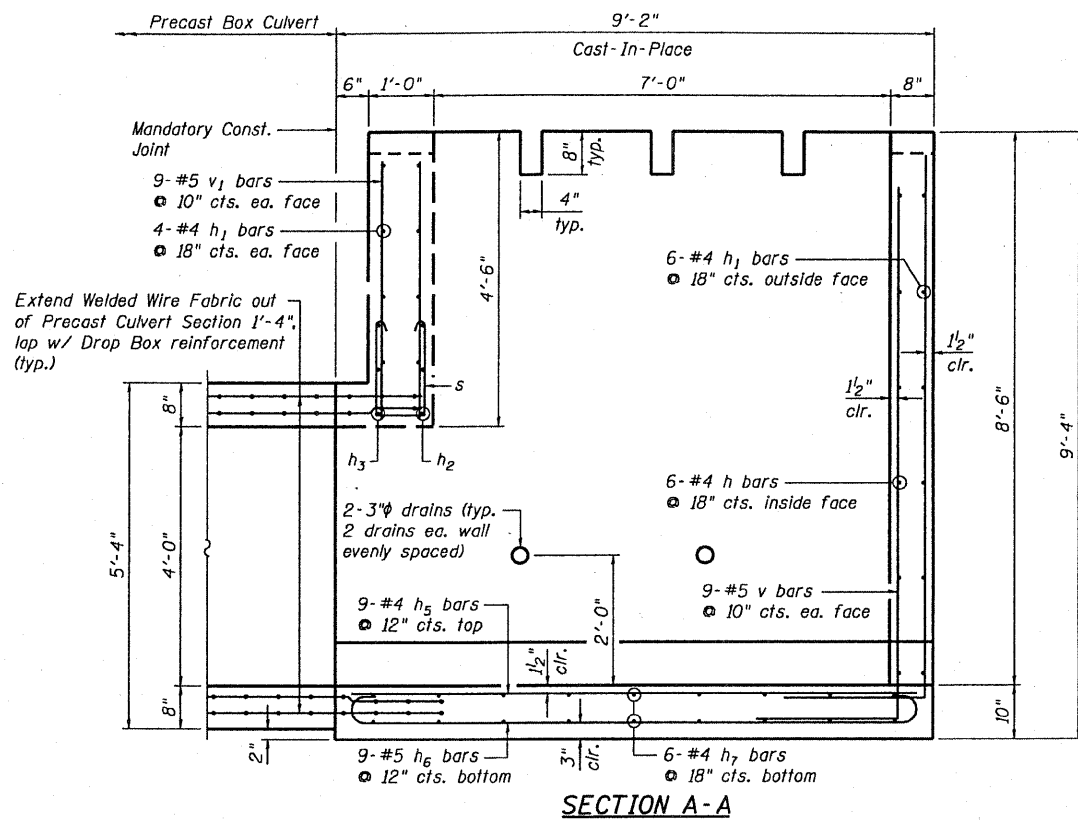
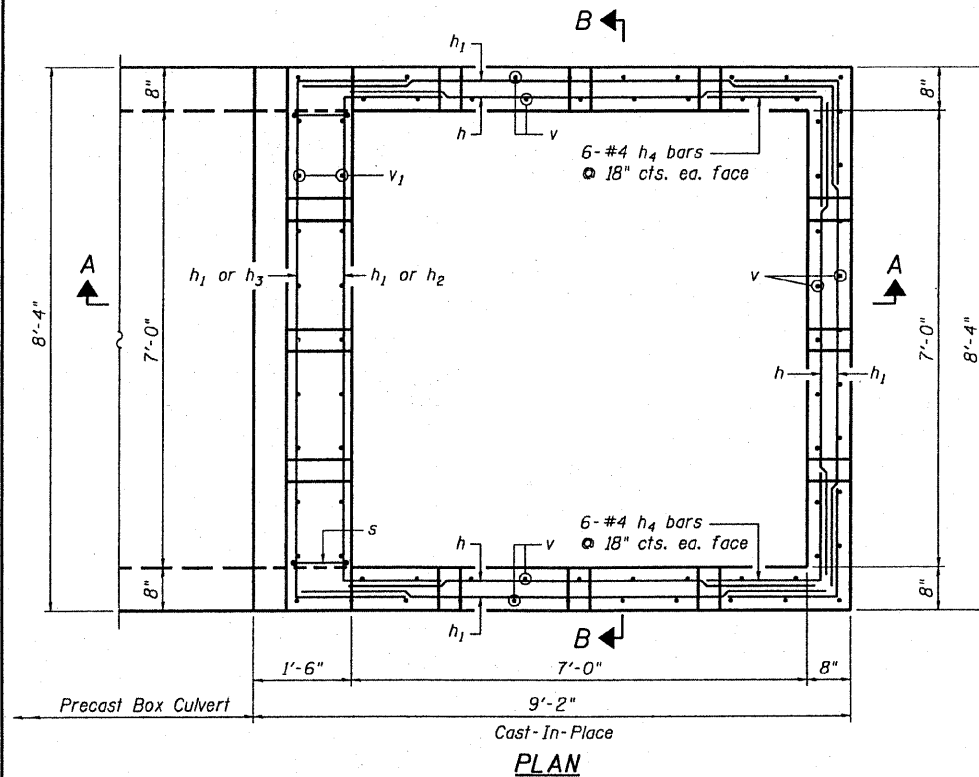
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
549	117T	OGLE	86	47
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		
CONTRACT # 64B44				

Operator: dhaberding

Date: 01/02/2008

Filename: L:\Jobs\IDOT_D-26279-10\CADD_Struct\Drop No 3 rev.dgn



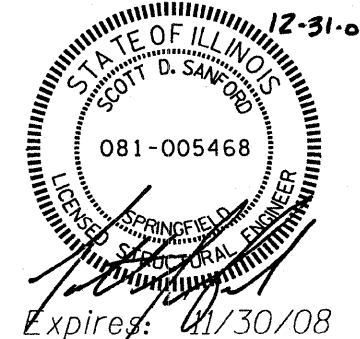
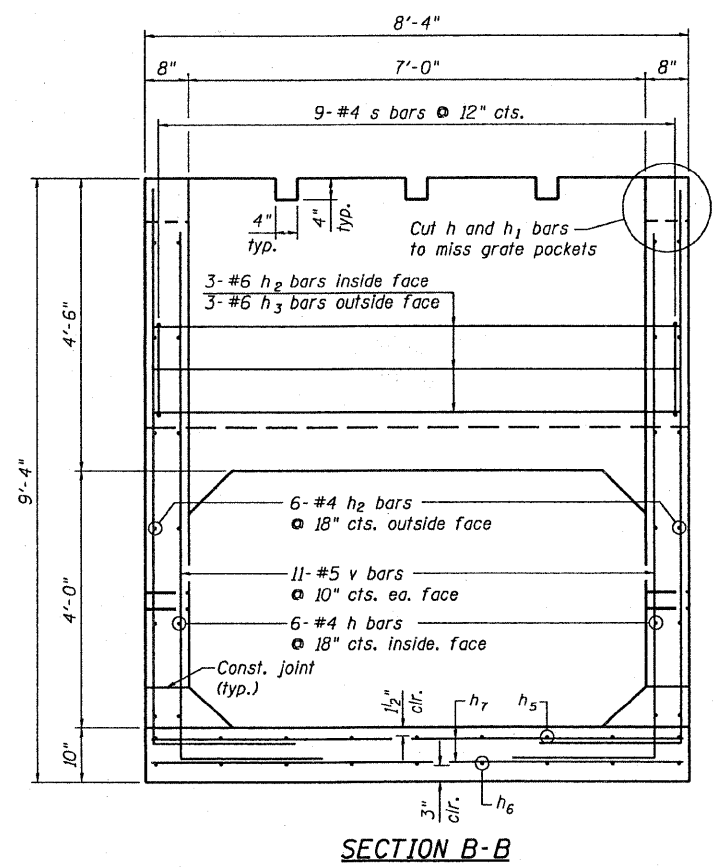
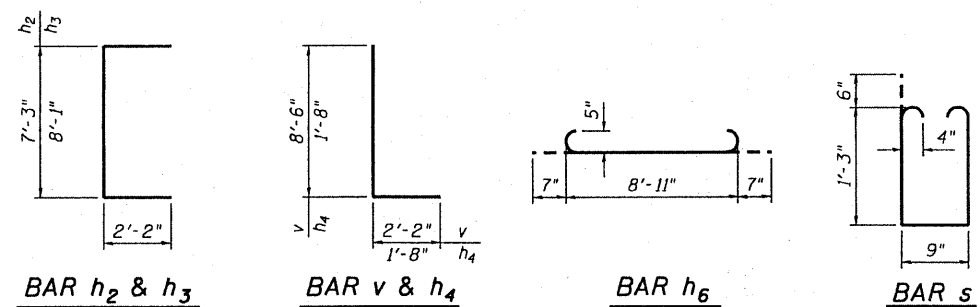
GENERAL NOTES

Reinforcement bars shall conform to the requirements of ASTM A706 Gr. 60 (IL Modified). See Special Provisions. The contractor shall be responsible for diverting the water flow from the construction area using a method meeting the approval of the Engineer. Cost included with "Drop Box No. 1". Drain holes shall be constructed in accordance with section 503.11. For details of galvanized steel pipe grate see sheet 48.

BILL OF MATERIAL

(For information only)

Bar	No.	Size	Length	Shape	
h	18	#4	7'-0"	—	
h1	26	#4	8'-1"	—	
h2	3	#6	11'-7"	—	
h3	3	#6	12'-5"	—	
h4	24	#4	3'-4"	—	
h5	9	#4	8'-11"	—	
h6	9	#5	10'-1"	—	
h7	12	#4	8'-1"	—	
s	9	#4	4'-3"	—	
v	62	#5	10'-8"	—	
v1	18	#5	4'-3"	—	
Concrete Structures				Cu. Yd.	8.8
Reinforcement Bars, Epoxy Coated				Pound	1,390



DROP BOX NO. 3
REINFORCEMENT DETAILS
FAP ROUTE 549 (IL 72)
SECTION 117 T
OGLE COUNTY

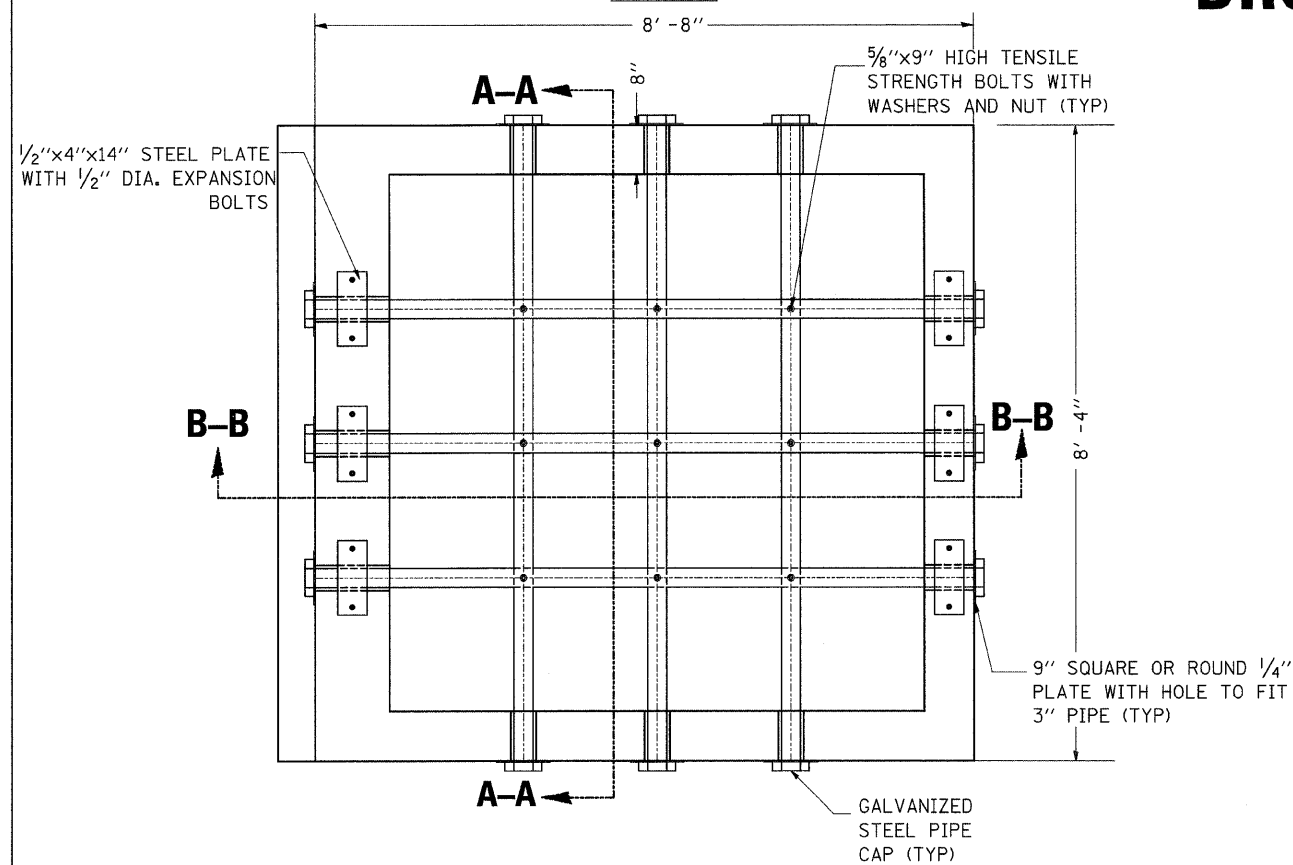
DESIGNED	-
CHECKED	-
DRAWN	-
CHECKED	-

WHKS & CO.
ENGINEERS PLANNERS LAND SURVEYORS
MASON CITY, IOWA DUBUQUE, IOWA AMES, IOWA
E. DUBUQUE, ILLINOIS SPRINGFIELD, ILLINOIS ROCHESTER, MINNESOTA

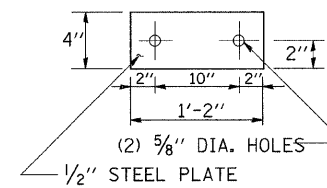
F.A. P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
549	117 T	OGLE	86	48
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT			

DROP BOX NO. 3

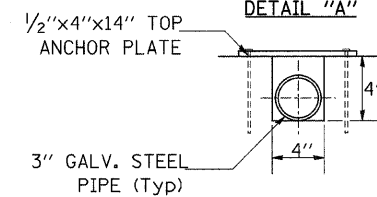
PLAN



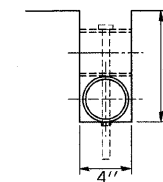
TOP ANCHOR PLATE



DETAIL "A"



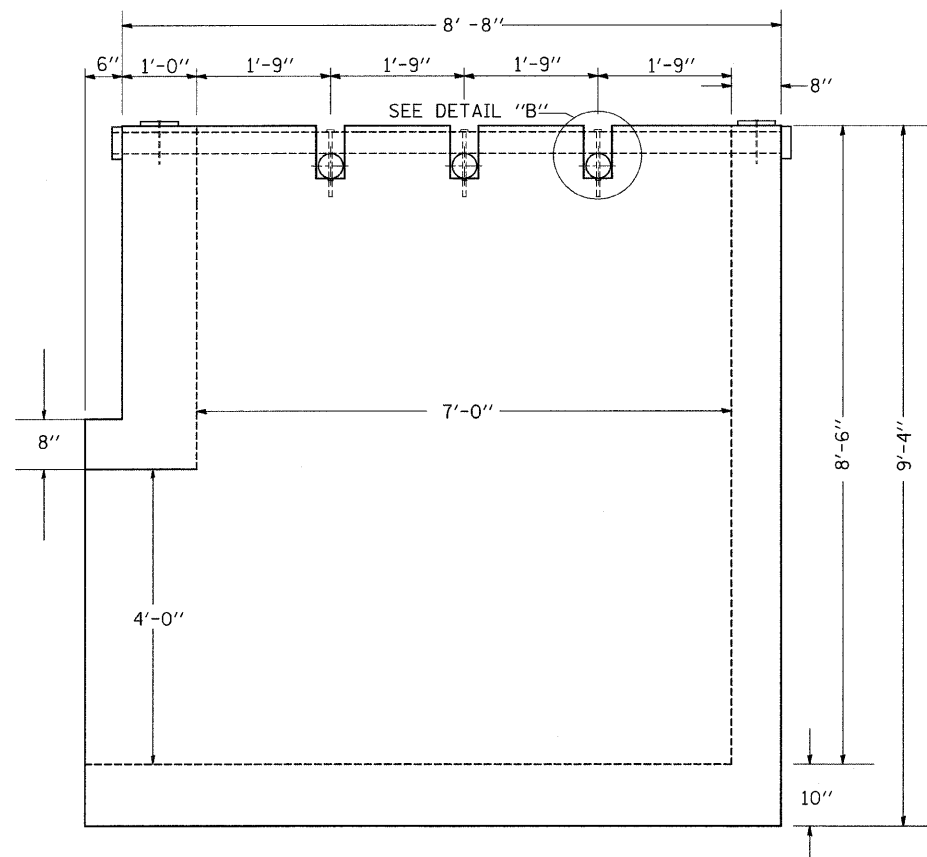
DETAIL "B"



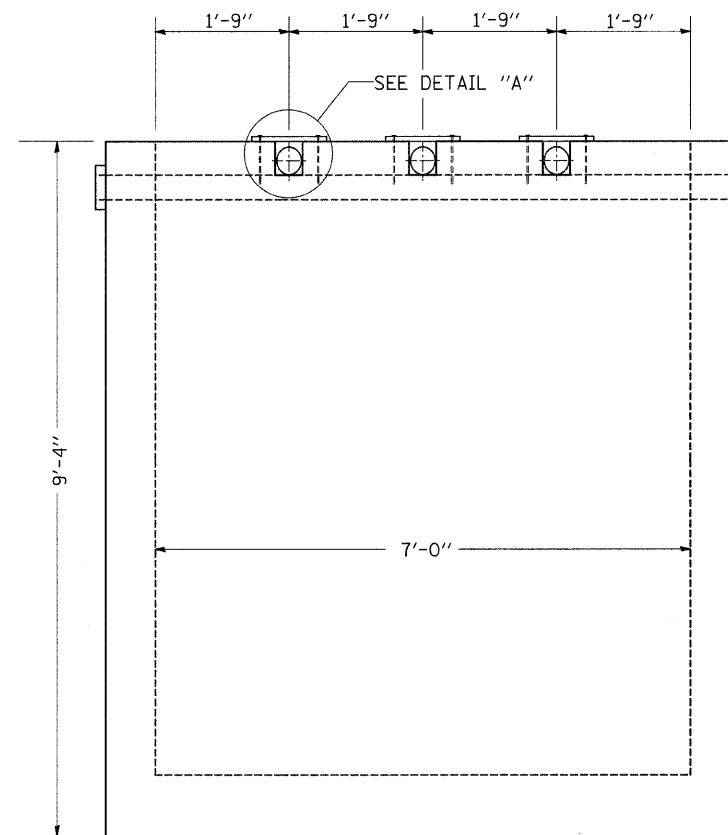
BILL OF MATERIAL

DESCRIPTION	UNIT	QTY
5/8" X 9" GALV. STEEL BOLTS	EACH	9
3" GALV. STEEL PIPE	@3	8'-8"
3" GALV. STEEL PIPE	@3	9'-0"
3" GALV. PIPE CAPS	EACH	12
1/2" X 4" X 14" GALV. PLATE	EACH	6
1/4" GALV STEEL PLATE (9" NOMINAL)	EACH	12

SECTION B-B



SECTION A-A



GENERAL NOTES

This work shall be done according to the applicable portion of 503, 508, and 542 of the Standard Specifications.

The contract unit price "each" for DROP BOX NO. 3 shall include the Expansion Bolts, Galvanized Pipe, Bolts, Nuts, Washers, Steel Plates, earth excavation where required, and necessary grading to fit the inlet as shown in the cross sections or to the slope

Reinforcement bars shall conform to the requirements of AASHTO M-31 or M-53, Grade 60.

STEEL PLATES SHALL CONFORM TO AASHTO M-183 AND SHALL BE GALVANIZED CONFORMING TO AASHTO M-111.

Bolts, Nuts, and Washers shall be in accordance with Article 710.11 of the Standard Specification and shall be galvanized.

Contractor shall field verify Galvanized pipe length.

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
549	117T	OGLE	86	49
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT			
CONTRACT • 64B44				

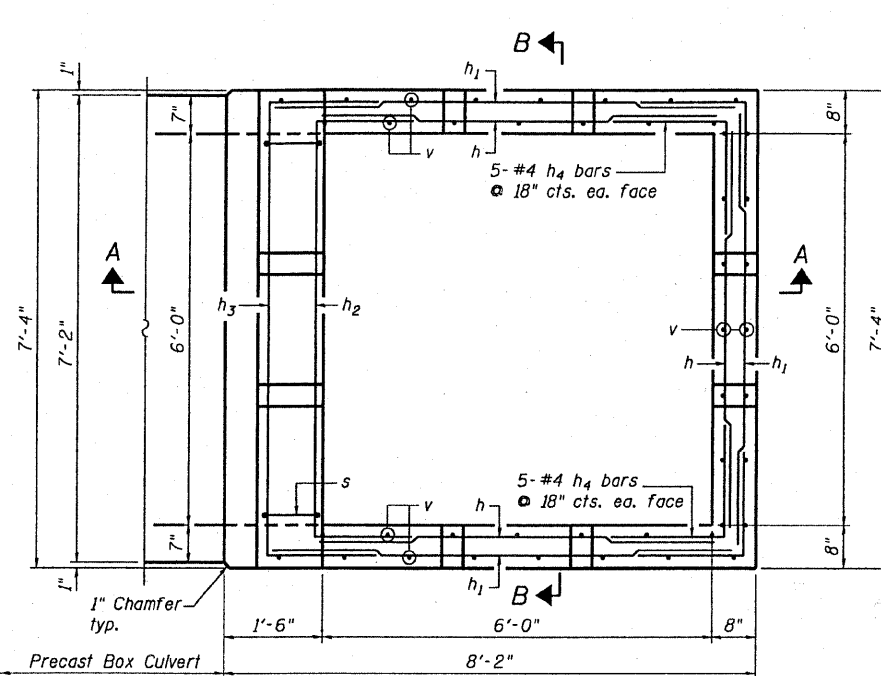
GENERAL NOTES

Reinforcement bars shall conform to the requirements of ASTM A706 Gr. 60 (IL Modified), See Special Provisions. The contractor shall be responsible for diverting the water flow from the construction area using a method meeting the approval of the Engineer. Cost included with "Drop Box No. 1". Drain holes shall be constructed in accordance with section 503.11. For details of galvanized steel pipe grate see sheet 50.

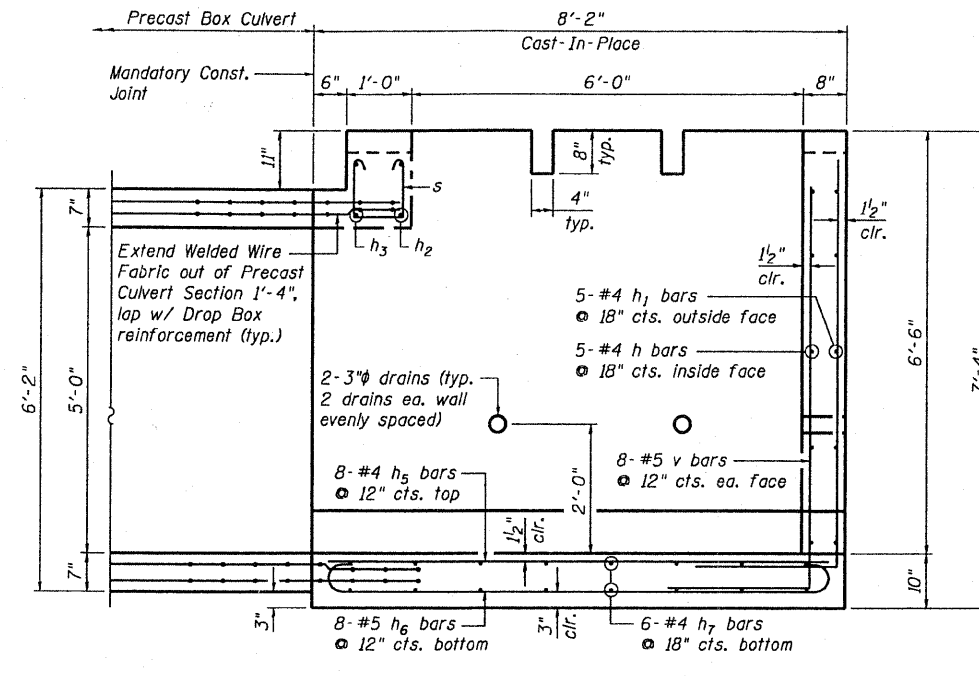
BILL OF MATERIAL

(For information only)

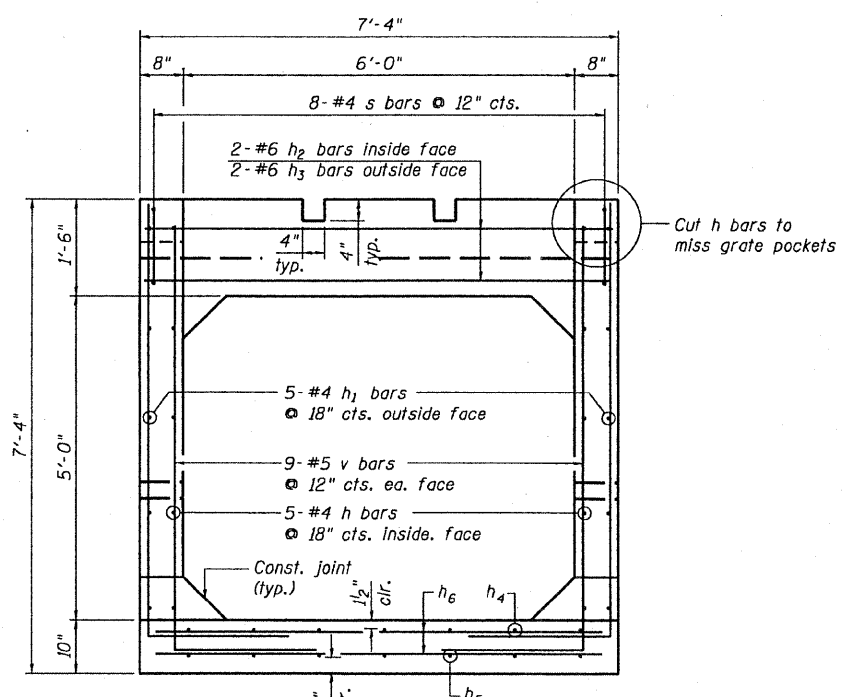
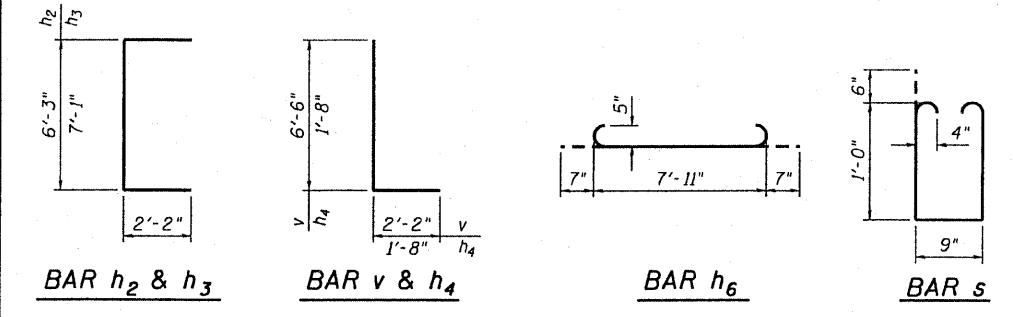
Bar	No.	Size	Length	Shape
h	15	#4	6'-0"	—
h ₁	15	#4	7'-1"	—
h ₂	2	#6	10'-7"	—
h ₃	2	#6	11'-5"	—
h ₄	20	#4	3'-4"	—
h ₅	8	#4	7'-11"	—
h ₆	8	#5	9'-1"	—
h ₇	12	#4	7'-1"	—
s	9	#4	3'-9"	—
v	54	#5	8'-8"	—
Concrete Structures		Cu. Yd.	5.8	
Reinforcement Bars, Epoxy Coated		Pound	1,000	



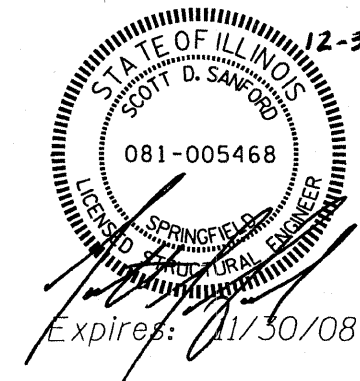
PLAN



SECTION A-A



SECTION B-B



DROP BOX NO. 4
REINFORCEMENT DETAILS
FAP ROUTE 549 (IL 72)
SECTION 117 T
OGLE COUNTY

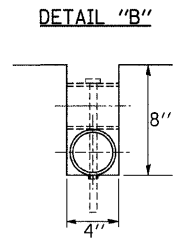
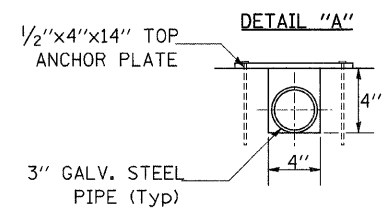
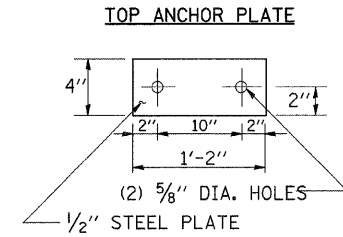
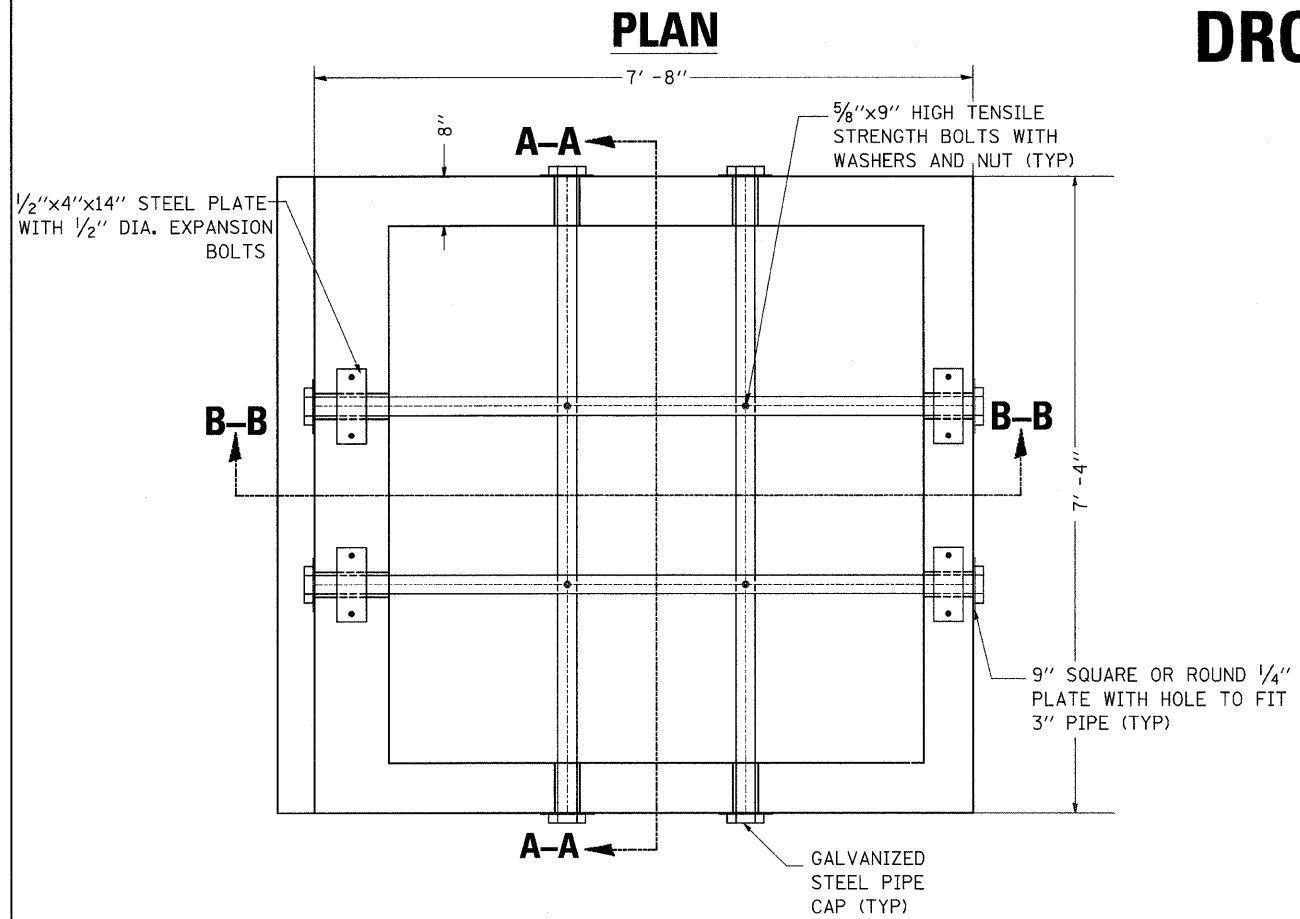
Operator: dheberling
Date: 01/02/2008
Filename: L:\obs\DOT_D-26279_10\CADD_Struct\Drop No 4 rev.dgn

DESIGNED	S.D.S.
CHECKED	S.D.S.
DRAWN	D.L.H.
CHECKED	S.D.S./D.L.H.

WHKS & CO.
ENGINEERS PLANNERS LAND SURVEYORS
MASON CITY, IOWA DUBUQUE, IOWA AMES, IOWA
E. DUBUQUE, ILLINOIS SPRINGFIELD, ILLINOIS ROCHESTER, MINNESOTA

F.A. P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
549	117 T	OGLE	86	50
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

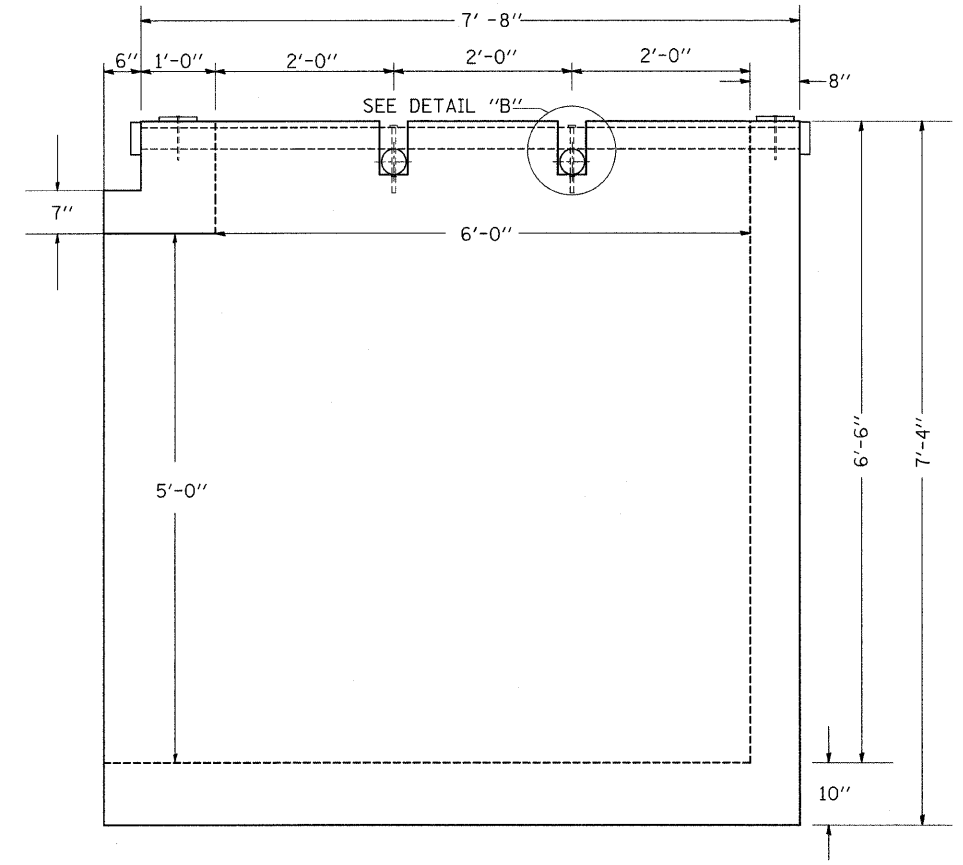
DROP BOX NO. 4



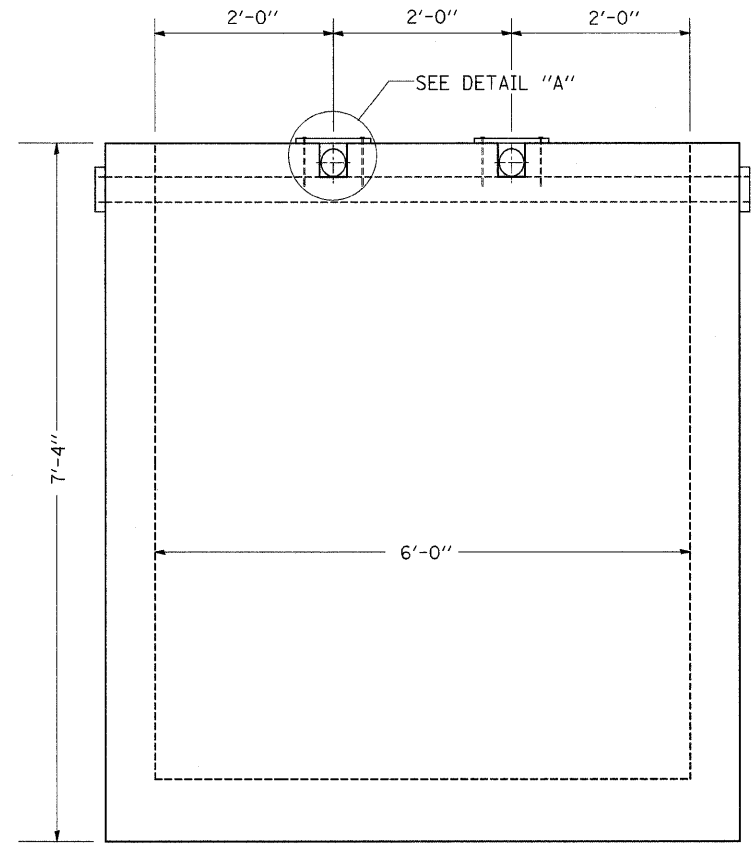
BILL OF MATERIAL

DESCRIPTION	UNIT	QTY
5/8" X 9" GALV. STEEL BOLTS	EACH	4
3" GALV. STEEL PIPE	@4	8'-0"
3" GALV. PIPE CAPS	EACH	8
1/2" X 4" X 14" GALV. PLATE	EACH	4
1/4" GALV STEEL PLATE (9" NOMINAL)	EACH	8

SECTION B-B



SECTION A-A



GENERAL NOTES

This work shall be done according to the applicable portion of 503, 508, and 542 of the Standard Specifications.

The contract unit price "each" for DROP BOX NO. 4 shall include the Expansion Bolts, Galvanized Pipe, Bolts, Nuts, Washers, Steel Plates, earth excavation where required, and necessary grading to fit the Inlet as shown in the cross sections or to the slope.

Reinforcement bars shall conform to the requirements of AASHTO M-31 or M-53, Grade 60.

STEEL PLATES SHALL CONFORM TO AASHTO M-183 AND SHALL BE GALVANIZED CONFORMING TO AASHTO M-111.

Bolts, Nuts, and Washers shall be in accordance with Article 710.11 of the Standard Specification and shall be galvanized.

Contractor shall field verify Galvanized pipe length.

F.A.R. No.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
549	117T	OGLE	86	51
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT			
CONTRACT # 64B44				

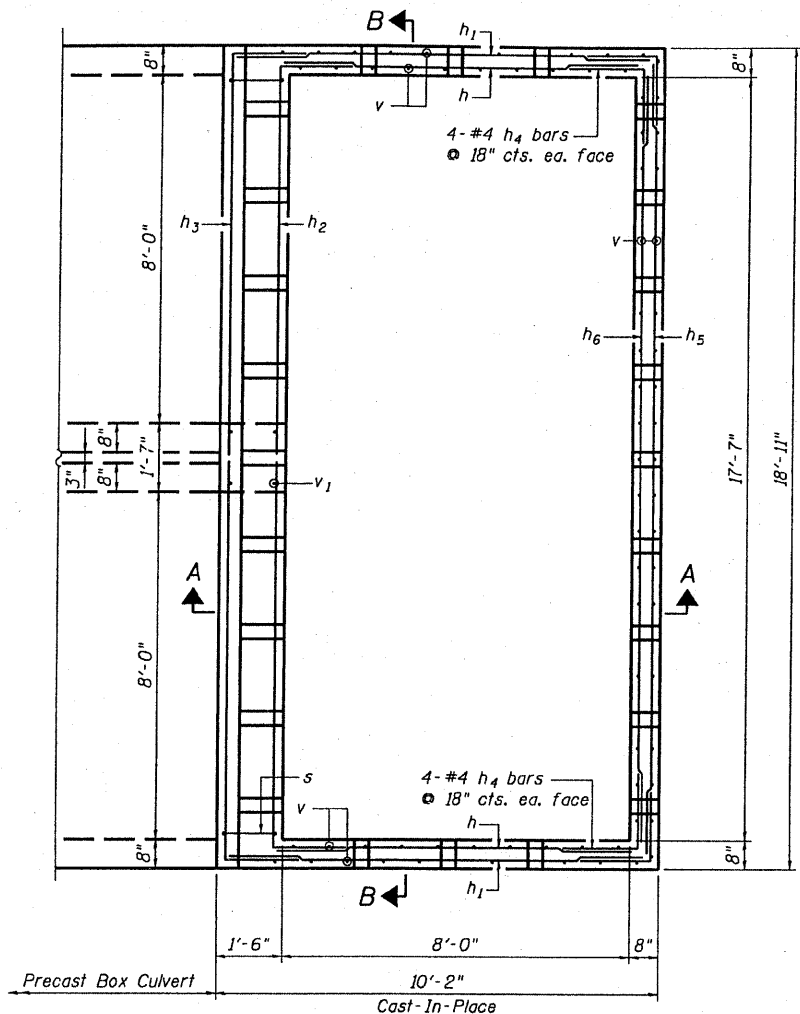
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GENERAL NOTES

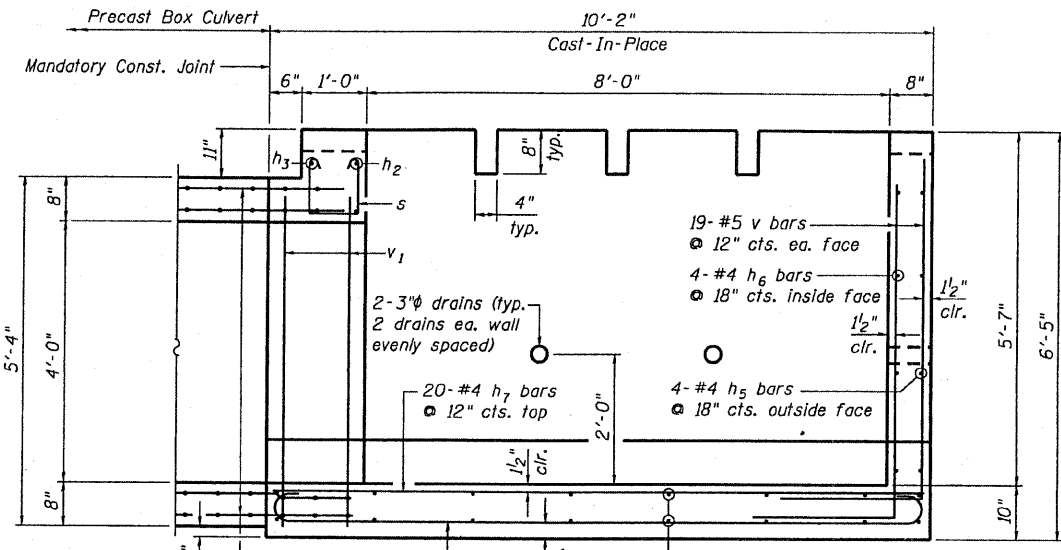
Reinforcement bars shall conform to the requirements of ASTM A706 Gr. 60 (IL Modified), See Special Provisions.
The contractor shall be responsible for diverting the water flow from the construction area using a method meeting the approval of the Engineer. Cost included with "Drop Box No. 1".
Drain holes shall be constructed in accordance with section 503.11.
For details of galvanized steel pipe grate see sheet 52.

BILL OF MATERIAL
(For information only)

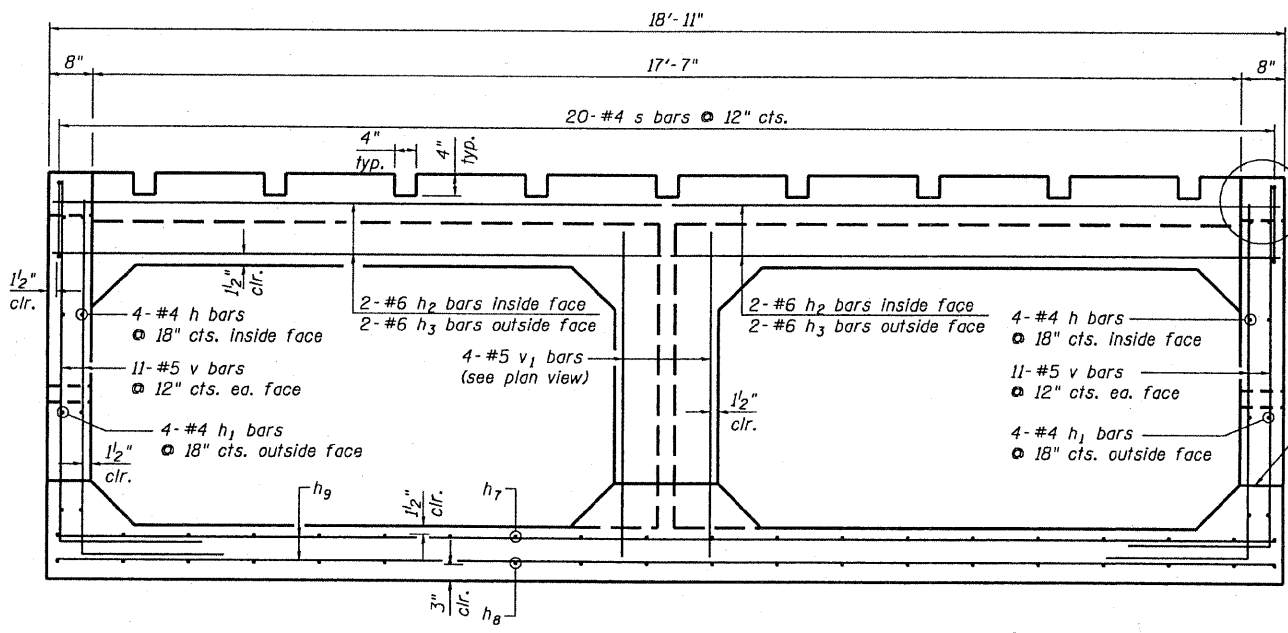
Bar	No.	Size	Length	Shape
h	8	#4	8'-0"	
h ₁	8	#4	9'-5"	
h ₂	4	#6	10'-4"	
h ₃	4	#6	10'-10"	
h ₄	16	#4	3'-4"	
h ₅	4	#4	18'-8"	
h ₆	4	#5	17'-7"	
h ₇	20	#4	9'-11"	
h ₈	20	#5	11'-1"	
h ₉	16	#4	18'-8"	
s	20	#4	3'-9"	
v	82	#5	7'-7"	
v ₁	4	#5	5'-3"	
Concrete Structures				Cu. Yd. 13.1
Reinforcement Bars, Epoxy Coated				Pound 1,630



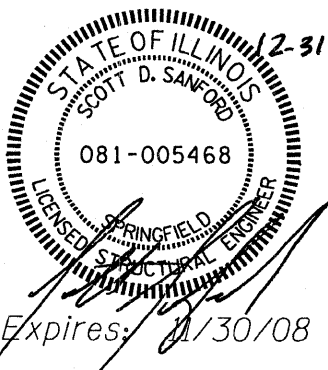
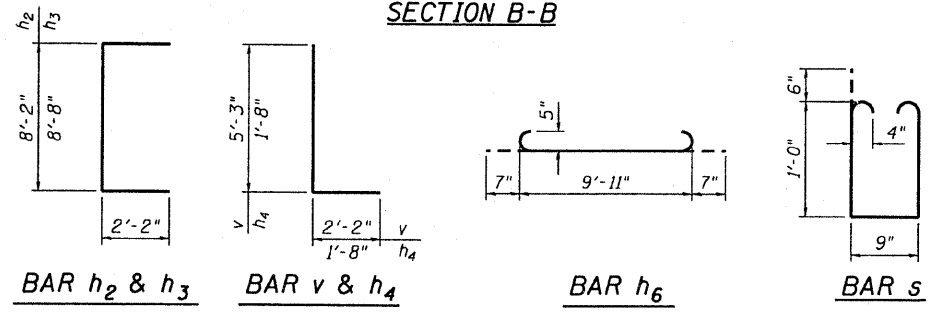
PLAN



SECTION A-A



SECTION B-B



DROP BOX NO. 5
REINFORCEMENT DETAILS
FAP ROUTE 549 (IL 72)
SECTION 117 T
OGLE COUNTY

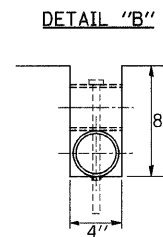
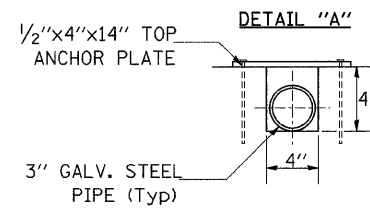
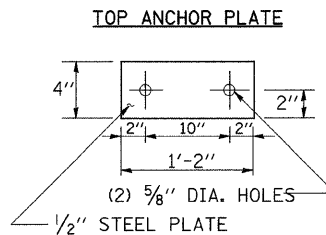
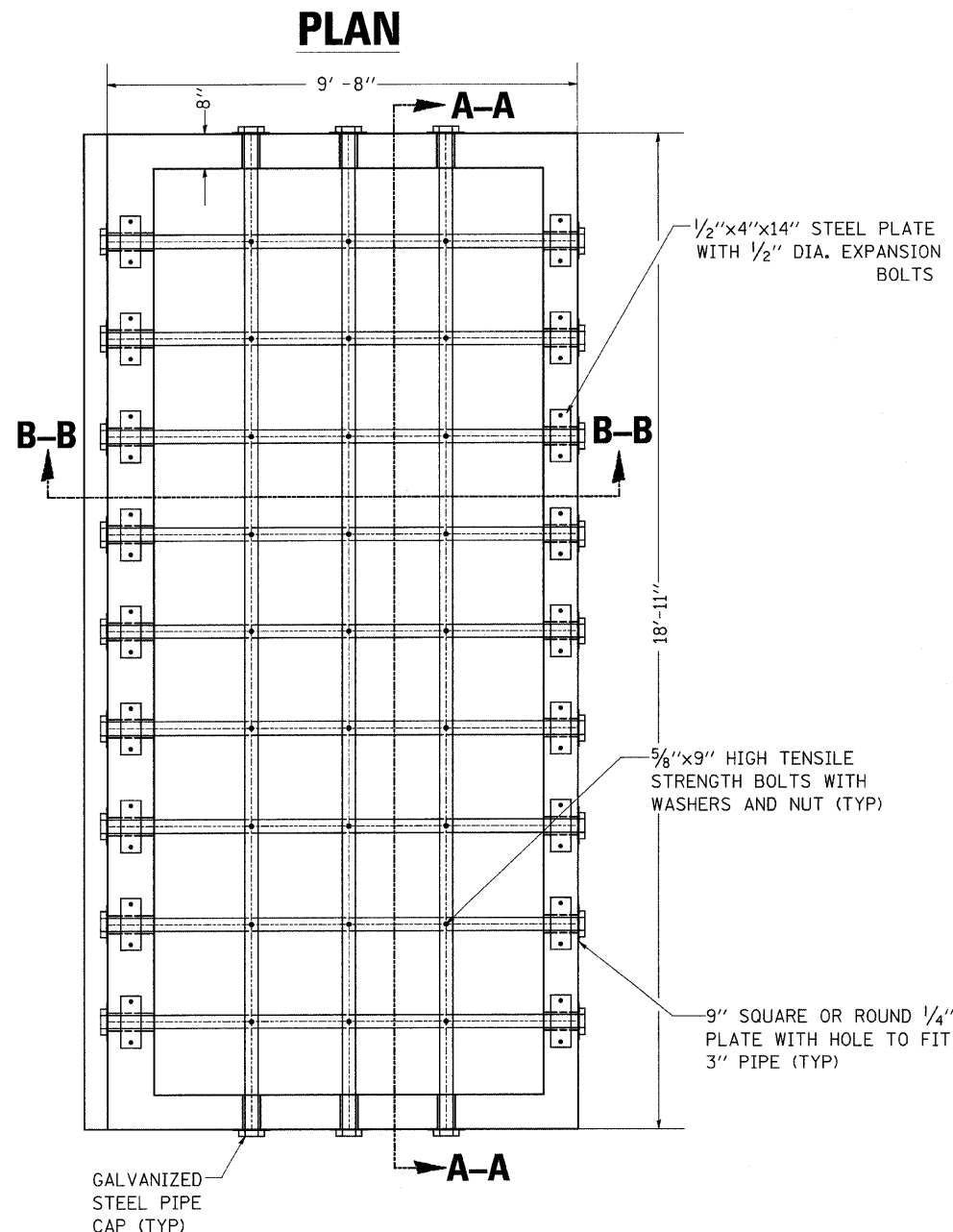
Operator: dheberling
Date: 01/02/2008
Filename: L:\Jobs\DOT_D-26279_10\CADD_Struct\Drop No 5 rev.dgn

DESIGNED -
CHECKED -
DRAWN -
CHECKED -



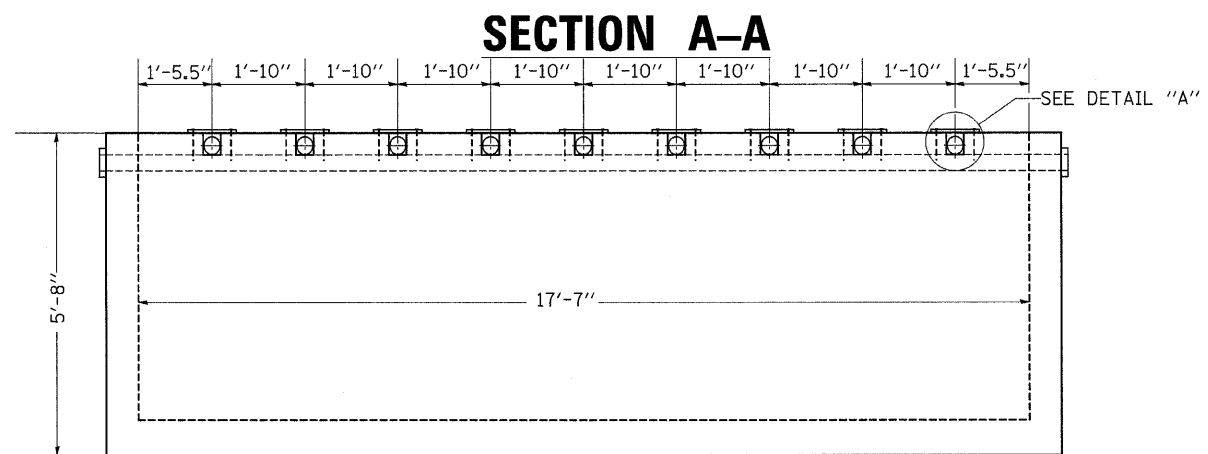
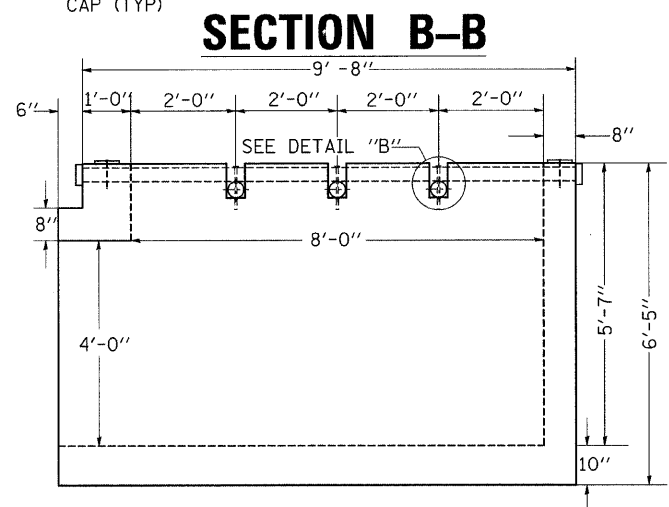
F.A.P. NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
549	117 T	OGLE	86	52
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

DROP BOX NO. 5



BILL OF MATERIAL

DESCRIPTION	UNIT	QTY
5/8" X 9" GALV. STEEL BOLTS	EACH	27
3" GALV. STEEL PIPE @3		19'-3"
3" GALV. STEEL PIPE @9		10'-0"
3" GALV. PIPE CAPS	EACH	24
1/2" X 4" X 14" GALV. PLATE	EACH	18
1/4" GALV STEEL PLATE (9" NOMINAL)	EACH	24



GENERAL NOTES

This work shall be done according to the applicable portion of 503, 508, and 542 of the Standard Specifications.

The contract unit price "each" for DROP BOX NO. 5 shall include the Expansion Bolts, Galvanized Pipe, Bolts, Nuts, Washers, Steel Plates, earth excavation where required, and necessary grading to fit the inlet as shown in the cross sections or to the slope

Reinforcement bars shall conform to the requirements of AASHTO M-31 or M-53, Grade 60.

STEEL PLATES SHALL CONFORM TO AASHTO M-183 AND SHALL BE GALVANIZED CONFORMING TO AASHTO M-111.

Bolts, Nuts, and Washers shall be in accordance with Article 710.11 of the Standard Specification and shall be galvanized.

Contractor shall field verify Galvanized pipe length.

PLOT DATE = Fri, Dec 28 13:45:34Z, 2007
 FILE NAME = c:\projects\p2187705\dl0705\p1.dgn
 PLOT SCALE = 50.0000 / IN.
 USER NAME = gorfjl

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
549	117 T	Ogle	86	54
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

SOIL BORRING LOGS



SOIL BORING LOG

Page 2 of 2

Date 5/17/05

ROUTE FAP 549 DESCRIPTION P92-117-05 IL 72 culvert, .3 m. W. of Mill Road LOGGED BY W. Garza
 SECTION 117 T LOCATION Byron Twp. - 35 NE, SEC. , TWP. 25N, RNG. 10E
 COUNTY Ogle DRILLING METHOD Hollow Stem Auger HAMMER TYPE CME-45 Automatic

STRUCT. NO.	Station	D E P T H	B L O W S	U C S Qu	M O I S T	Surface Water Elev.	Stream Bed Elev.	Groundwater Elev.:	First Encounter	Upon Completion	After Hrs.
		(ft)	(/6")	(tsf)	(%)	ft	ft	ft	ft	ft	ft
VERY STIFF gray SANDY LOAM TILL (continued)	58.40	9	15	2.5	8.0						
HARD gray SANDY LOAM TILL	55.90	14	18	4.1	8.0						
End of Boring			20	S							

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)



SOIL BORING LOG

Page 1 of 1

Date 5/16/05

ROUTE FAP 549 DESCRIPTION P92-117-05 IL 72 culvert, .2 m. W. of Conger Road LOGGED BY W. Garza
 SECTION 117 T LOCATION Byron Twp. - 34 NE, SEC. , TWP. 25N, RNG. 10E
 COUNTY Ogle DRILLING METHOD Hollow Stem Auger HAMMER TYPE CME-45 Automatic

STRUCT. NO.	Station	D E P T H	B L O W S	U C S Qu	M O I S T	Surface Water Elev.	Stream Bed Elev.	Groundwater Elev.:	First Encounter	Upon Completion	After Hrs.
		(ft)	(/6")	(tsf)	(%)	ft	ft	ft	ft	ft	ft
Gravel Shoulder											
MEDIUM brown SILTY CLAY LOAM	78.10			0.5	16.0						
STIFF brown CLAY LOAM	97.60	2	4	1.3	16.0						
STIFF brown SILTY CLAY LOAM	96.10	5	3	1.5	27.0						
SOFT tanish brown SILTY LOAM with LIMESTONE	93.60	4	3	B							
MEDIUM brown SILTY CLAY LOAM	91.10	2	3	0.3	15.0						
MEDIUM dark brown LOAM with ORGANICS	88.60	2	2	B	24.0						
SOFT brown SILTY CLAY LOAM	86.10	1	2	P	28.0						
STIFF tan SILTY CLAY	83.60	1	3	B	32.0						
MEDIUM tan SILTY LOAM	81.10	2	3	B	30.0						
MEDIUM tan SILTY LOAM	78.10	1	2	B	29.0						

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 = Fri, Dec 28, 13:52:37, 2007
 FILE NAME = c:\projects\210705\117\86vr.dgn
 PLOT SCALE = 86.0000 / IN.
 USER NAME = goffj

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
549	117 T	OGLE	86	55
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

SOIL BORRING LOGS



Illinois Department of Transportation
Division of Highways
Illinois Department of Transportation/D-2

SOIL BORING LOG

Page 1 of 1

Date 5/10/05

ROUTE FAP 549 DESCRIPTION P92-117-05 IL 72 culvert, 500' W. of Main Street in Leaf River LOGGED BY W. Garza

SECTION 117 T LOCATION Leaf River Twp. - 36 NW, SEC., TWP. 25N, RNG. 10E

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

STRUCT. NO.	D	B	U	M	Surface Water Elev.	ft	D	B	U	M
Station	E	L	C	O	Stream Bed Elev.	95.00	E	L	C	O
	P	O	S	I			P	O	S	I
BORING NO.	T	W	Qu	T	Groundwater Elev.:		T	W	Qu	T
Station	H	S			First Encounter	77.1	H	S		
Offset					Upon Completion	76.4				
Ground Surface Elev.	ft	(ft)	(/6")	(tsf)	After	Hrs.	(ft)	(/6")	(tsf)	(%)

MEDIUM brown SILTY CLAY LOAM			0.5	29.0	MEDIUM tan fine SAND, very moist (continued)	10				
			P			13				
	97.10				MEDIUM tan fine SAND	4				
MEDIUM dark brown LOAM		2				8				
		3	0.8	27.0		13				
	95.60	4	P		MEDIUM tan fine SAND	6				
						12				
STIFF gray/tan SILTY CLAY LOAM		1				14				
		3	1.2	31.0	MEDIUM tan fine SAND	19				
	93.10	4	B			30				
					VERY DENSE tan SAND & GRAVEL with LIMESTONE	38				
MEDIUM gray tan SILTY CLAY LOAM		1								
		2	0.5	26.0	End of Boring					
	90.10	3	B							
LOOSE light brown fine SAND, moist		1								
		2								
	88.10	4								
MEDIUM tan fine SAND		3								
		6								
	85.60	9								
DENSE tan SAND & GRAVEL, dry		6								
		9								
	83.10	24								
DENSE tan fine SAND with medium GRAVEL		17								
		24								
	80.60	22								
		6								

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
Illinois Department of Transportation/D-2

SOIL BORING LOG

Page 1 of 1

Date 5/9/05

ROUTE FAP 549 DESCRIPTION P92-117-05 IL 72 culvert, .9 m. E. of Mt. Morris Blacktop LOGGED BY W. Garza

SECTION 117 T LOCATION Leaf River Twp. - 35 NE, SEC., TWP. 25N, RNG. 10E

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

STRUCT. NO.	D	B	U	M	Surface Water Elev.	90.00	D	B	U	M
Station	E	L	C	O	Stream Bed Elev.		E	L	C	O
	P	O	S	I			P	O	S	I
BORING NO.	T	W	Qu	T	Groundwater Elev.:		T	W	Qu	T
Station	H	S			First Encounter	82.5	H	S		
Offset					Upon Completion	Wash				
Ground Surface Elev.	ft	(ft)	(/6")	(tsf)	After	Hrs.	(ft)	(/6")	(tsf)	(%)

STIFF brown SANDY LOAM			1.8	17.0	MEDIUM olive green SAND & GRAVEL (continued)	8				
			P			11				
	87.50				MEDIUM tan dirty SAND & GRAVEL					
		3								
		6		14.0						
	85.50	5								
					MEDIUM tanish green SAND & GRAVEL with SILT lens					
DENSE yellow dirty SAND & GRAVEL with LIMESTONE		8				8				
		10				9				
	83.50	26				13				
					MEDIUM tan dirty SAND					
		5			Wash	12				
		6			VERY DENSE tan SAND & GRAVEL	18				
	81.00	5				44				
					End of Boring					
MEDIUM tan dirty SAND & GRAVEL		5								
		7								
	78.50	9								
MEDIUM tan dirty SAND & GRAVEL		5								
		7								
	76.00	8								
Wash		8								
MEDIUM tan SAND & GRAVEL		10								
		17								
	73.50									
5' Run										
	71.00									
		6								

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 = Fri, Dec 28 13:52:37 2007
FILE NAME = c:\projects\10705\10705covr.dgn
PLOT SCALE = 80.0000 / 1.
USER NAME = gertj

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
549	117 T	OGLE	86	58
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

SOIL BORRING LOGS



Illinois Department of Transportation
Division of Highways
Illinois Department of Transportation/D-2

SOIL BORING LOG

Page 1 of 1

Date 5/11/05

ROUTE FAP 549 DESCRIPTION P92-117-05 IL 72 culvert, .2 m. W. of Conger Road LOGGED BY W. Garza

SECTION 117 T LOCATION Byron Twp. - 34 NE, SEC. , TWP. 25N, RNG. 10E

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

STRUCT. NO.	Station	D	B	U	M	Surface Water Elev.	Stream Bed Elev.	Groundwater Elev.:	First Encounter	Upon Completion	After
		(ft)	(/6")	(tsf)	(%)	ft	ft	ft	ft	ft	ft
BORING NO. <u>B-2c</u>	Station <u>713+79</u>										
Ground Surface Elev. <u>85.20</u> ft											
MEDIUM brown SILTY CLAY LOAM				0.5 P	22.0						
	83.20										
STIFF brown SILTY CLAY LOAM			2								
	81.70		4	2.1 P	21.0						
MEDIUM tan SILTY CLAY LOAM			3								
	79.20		4	0.8 B	27.0						
MEDIUM tan SILTY LOAM			1								
	76.70		3	0.8 B	28.0						
MEDIUM tan SILT			1								
	73.70		2	0.5 P	29.0						
LOOSE/MEDIUM tan weathered LIMESTONE			7								
	71.70		5								
VERY DENSE tan weathered LIMESTONE			12								
	69.20		26								
			68								
VERY DENSE tan LIMESTONE			100/5"								
	66.70										
End of Boring											
	-20										

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
Illinois Department of Transportation/D-2

SOIL BORING LOG

Page 1 of 1

Date 5/9/05

ROUTE FAP 549 DESCRIPTION P92-117-05 IL 72 culvert, .9 m. E. of Mt. Morris Blacktop LOGGED BY W. Garza

SECTION 117 T LOCATION Leaf River Twp. - 36NW, SEC. , TWP. 25N, RNG. 10E

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

STRUCT. NO.	Station	D	B	U	M	Surface Water Elev.	Stream Bed Elev.	Groundwater Elev.:	First Encounter	Upon Completion	After
		(ft)	(/6")	(tsf)	(%)	ft	ft	ft	ft	ft	ft
BORING NO. <u>B-2e</u>	Station <u>444+90</u>										
Ground Surface Elev. <u>90.50</u> ft											
MEDIUM brown LOAM				0.9 P	12.0						
	88.50										
MEDIUM tan/brown SILTY LOAM			1								
	87.00		2	0.6 B	23.0						
SOFT brown SANDY LOAM			2								
	84.00		3	0.3 B	20.0						
MEDIUM tan weathered LIMESTONE			5								
	82.00		11								
			16								
MEDIUM yellowish tan SAND & GRAVEL with LIMESTONE fragments			8								
	79.50		11								
			13								
MEDIUM yellowish tan SAND & GRAVEL with LIMESTONE			13								
	77.00		15								
			10								
LOOSE/MEDIUM tan clean medium coarse SAND			6								
	74.50		5								
MEDIUM tan SAND			9								
	72.00		12								
			10								
MEDIUM tan SAND & GRAVEL			9								
	-20										

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 = Fri Dec 28 13:52:38 2007
FILE NAME = c:\projects\p210705\dl0705covr.dgn
PLOT SCALE = 50.0000 / in.
USER NAME = gertj

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
549	117 T	OGLE	86	59
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

SOIL BORRING LOGS



Illinois Department of Transportation
 Division of Highways
 Illinois Department of Transportation/D-2

SOIL BORING LOG

Page 1 of 1

Date 5/5/05

ROUTE FAP 549 DESCRIPTION P92-117-05 IL 72 culvert, .5 m. E. of Main Street in Leaf River LOGGED BY W. Garza

SECTION 117 T LOCATION Leaf River Twp. - 31 NW, SEC. , TWP. 25N, RNG. 10E

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

STRUCT. NO.	Station	D	B	U	M	Surface Water Elev.	ft	D	B	U	M
BORING NO.	Station	E	L	C	O	Stream Bed Elev.	ft	P	O	S	O
Offset	Ground Surface Elev.	T	W	S	Q	Groundwater Elev.:		H	S	Qu	T
Ground Surface Elev.		H	S	Qu	T	First Encounter	ft				
		(ft)	(/6")	(tsf)	(%)	Upon Completion	ft				
						After	ft	(ft)	(/6")	(tsf)	(%)
						Hrs.					
512+23	512+33					91.00					
B-2f	512+33					81.1					
32.00ft Lt of CL						Wash					
93.10											
STIFF brown SILTY CLAY LOAM				1.1	23.0	VERY SOFT tan SILT (continued)		3	0.2	21.0	
				P			71.60	6	P		
91.10			2			LOOSE tan fine SAND with medium SAND		2			
			2	0.8	24.0			1			
89.60			4	P			69.60	5			
						SOFT tan SILT with fine SAND lens		1			
			2	1.2	19.0			5	0.3	26.0	
			4	B			67.10	5	P		
86.60						MEDIUM tan SAND with LIMESTONE fragments		2			
			2					6			
VERY LOOSE tan very moist fine SAND			1				64.60	14			
84.60			2			VERY DENSE tan weathered LIMESTONE		15			
							63.10	30			
			2			End of Boring		100/10"			
MEDIUM tan very moist fine SAND			4								
			4								
82.10			7								
						MEDIUM tan fine SAND					
			4								
			6								
79.60			6								
						MEDIUM tan fine SAND with medium GRAVEL					
			4								
			7								
77.10			9								
						Wash					
			11			DENSE tan clean medium coarse SAND					
			16								
			20								
74.10											
						VERY SOFT tan SILT					
			2								

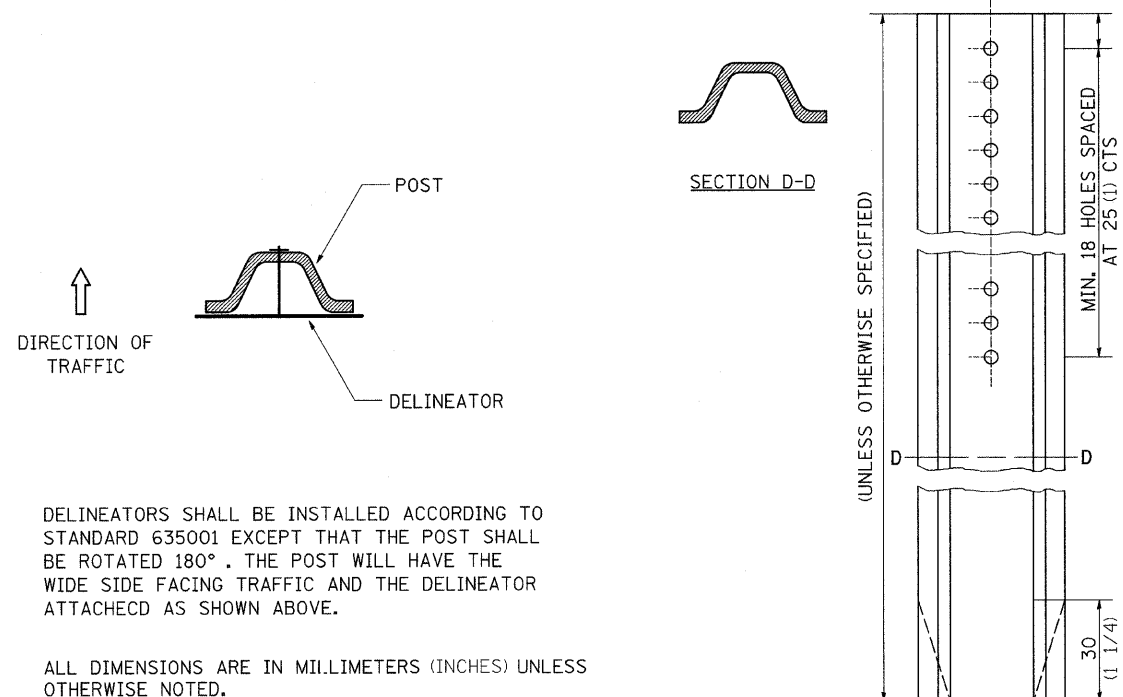
The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
 The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)

BBS, from 137 (Rev. 8-99)

PLOT DATE = Fri, Dec 28 13:45:23 2007
 FILE NAME = c:\p\projects\210705\110705bvr.dgn
 PLOT SCALE = 50.0000 / IN.
 USER NAME = 9077JL

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
549	117 T	OGLE	86	60
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	

DELINEATOR AND POST ORIENTATION



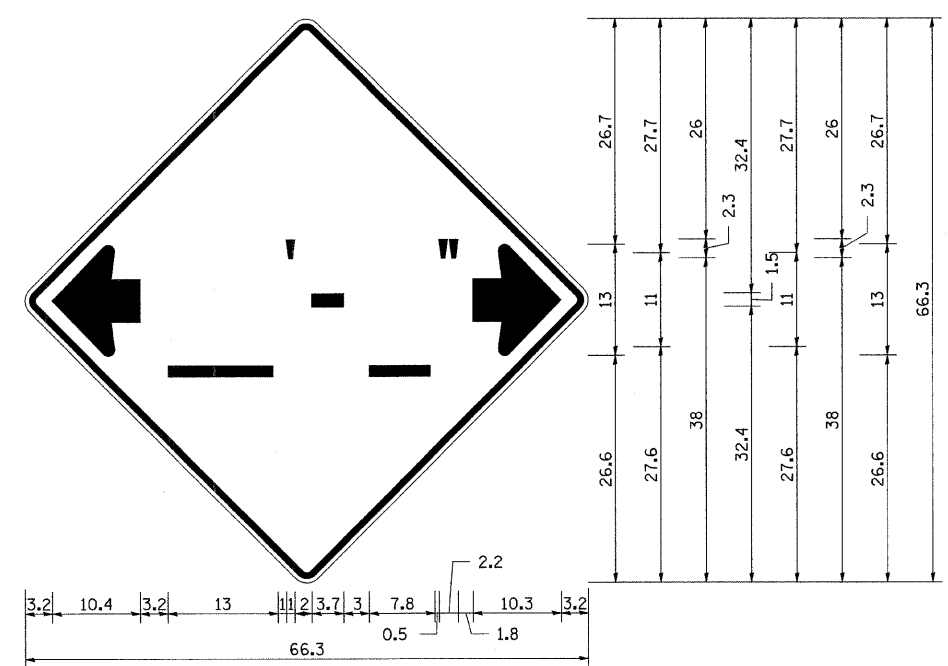
DELINEATORS SHALL BE INSTALLED ACCORDING TO STANDARD 635001 EXCEPT THAT THE POST SHALL BE ROTATED 180°. THE POST WILL HAVE THE WIDE SIDE FACING TRAFFIC AND THE DELINEATOR ATTACHED AS SHOWN ABOVE.

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

DELINEATOR AND POST ORIENTATION 37.4

REVISED 1-31-00

INFORMATIONAL WARNING SIGN (FOR NARROW TRAVEL LANES)



NOTES
 W12-2 - Horizontal Clearance Sign
 48.0" across sides, 1.9" Radius,
 0.8" Border, 0.5" Indent, Black on
 Orange; Standard Arrow Custom
 10.4" X 8.1" 180° Black 11 Inch
 D Series Lettering; Standard Arrow
 Custom 10.4" X 8.1" 0°

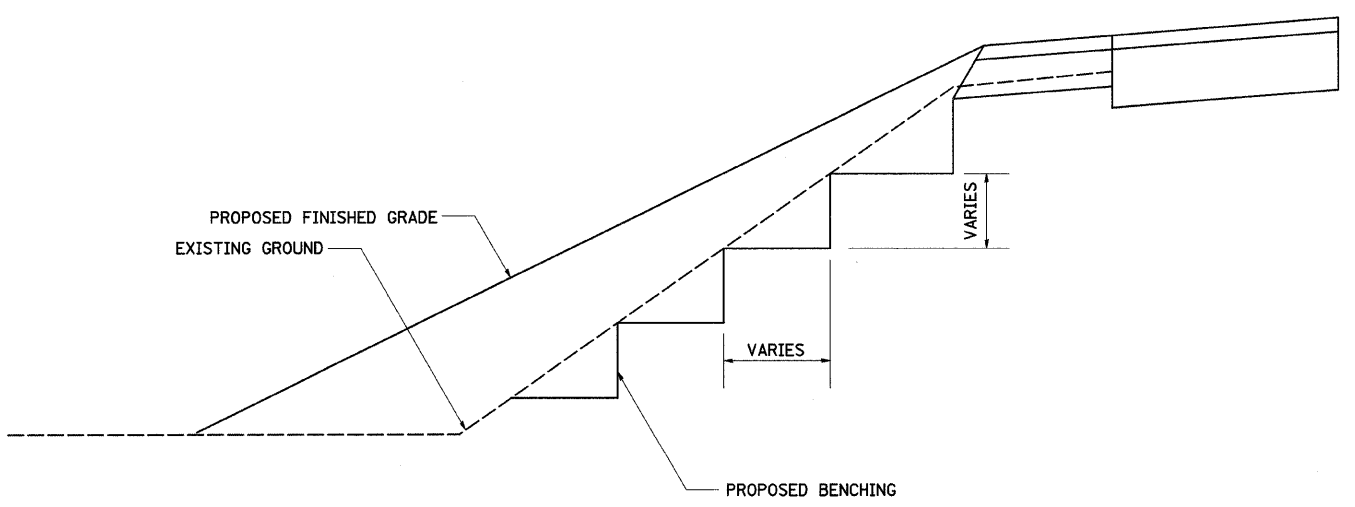
All work to furnish and install these signs shall be included in the cost of the Traffic Control Standards and shall not be paid for separately.

ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE NOTED.

INFORMATIONAL WARNING SIGN (FOR NARROW TRAVEL LANES) 39.4

REVISED 6-29-05

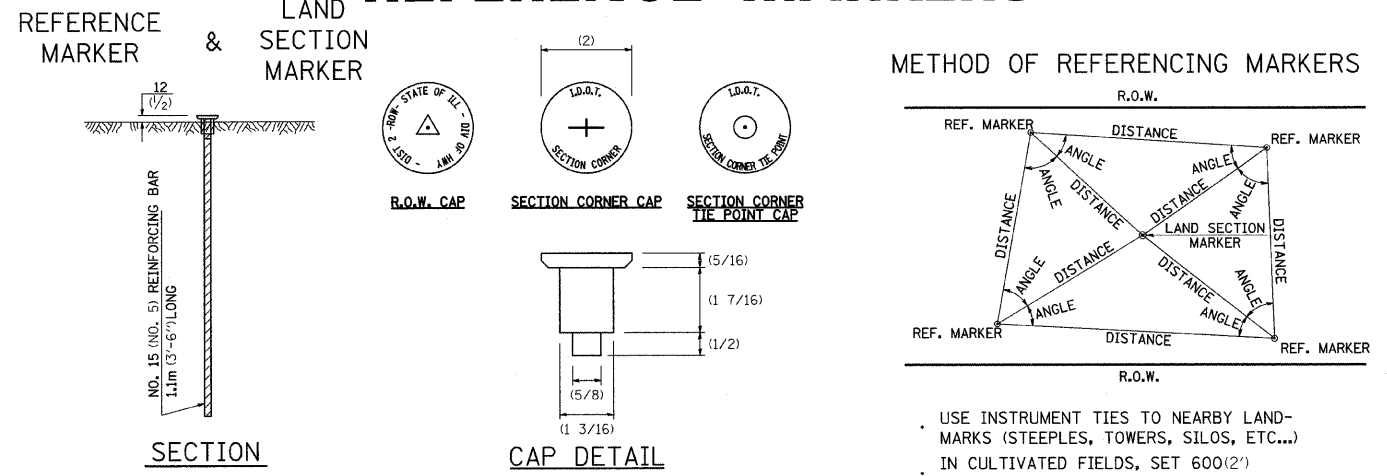
TYPICAL BENCHING ON EXISTING EMBANKMENT



TYPICAL BENCHING ON EXISTING EMBANKMENT 50.4

REVISED 2-22-06

LAND SECTION & REFERENCE MARKERS



METHOD OF REFERENCING POINTS
 REFERENCE MARKERS SHALL BE USED TO TIE IN PERMANENT LAND SECTION AND 1/4 SECTION CORNERS. WHERE LAND SECTION MARKERS FALL IN THE SHOULDERS OR GRAVEL SURFACES, THE TOP OF THE BAR SHALL BE KEPT 75(3) BELOW THE SURFACE. LAND SECTION MARKERS LOCATED IN TRAFFIC LANES SHALL NOT BE REPLACED.

METAL CAPS SHALL BE PLACED ON TOP OF THE REINFORCEMENT BAR. THERE ARE 3 TYPES OF CAPS, ONE FOR THE RIGHT-OF-WAY CORNERS, ONE FOR THE SECTION CORNERS AND ONE FOR THE SECTION CORNER TIE POINTS. THE CAPS WILL BE SUPPLIED BY IDOT, CALL CHIP CORDELL (815) 284-5370 A MINIMUM OF ONE WEEK BEFORE THE CAPS ARE NEEDED

- USE INSTRUMENT TIES TO NEARBY LAND-MARKS (STEEPLES, TOWERS, SILOS, ETC...)
- IN CULTIVATED FIELDS, SET 600(2') OR MORE BELOW GROUND SURFACE.
- IN FENCE LINE OR PROTECTED AREA SET TOP AT GROUND LEVEL.

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

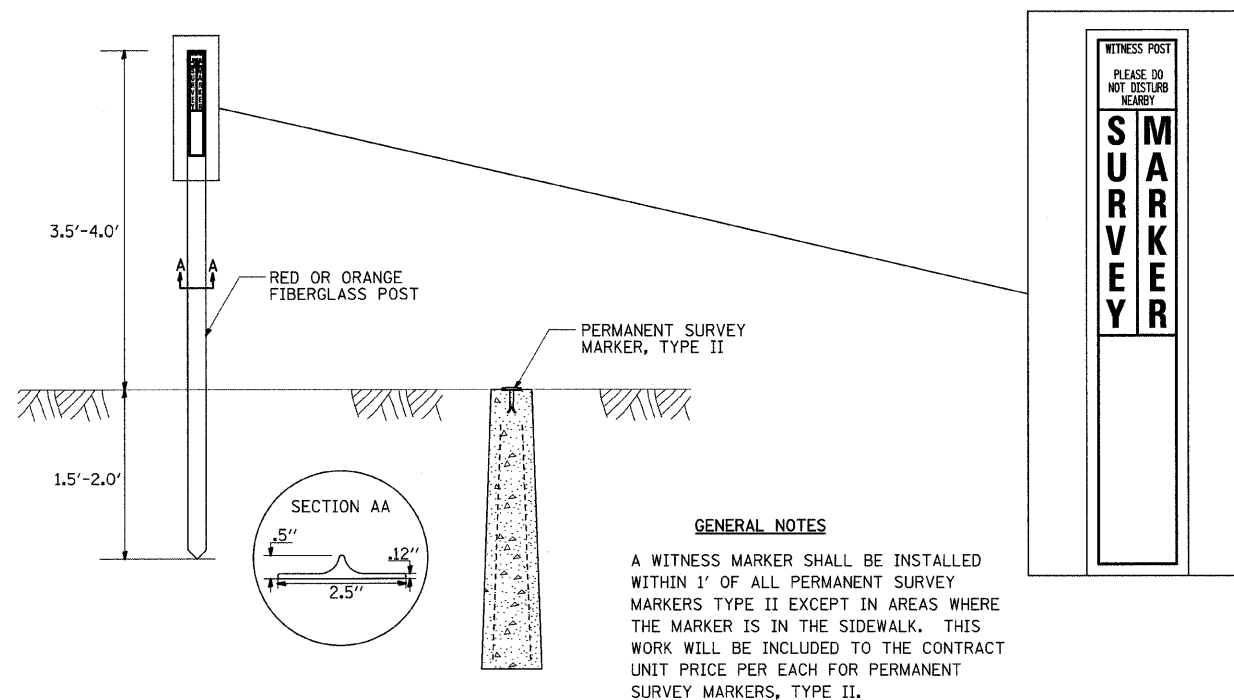
LAND SECTION & REFERENCE MARKERS 63.4

REVISED 4-22-05

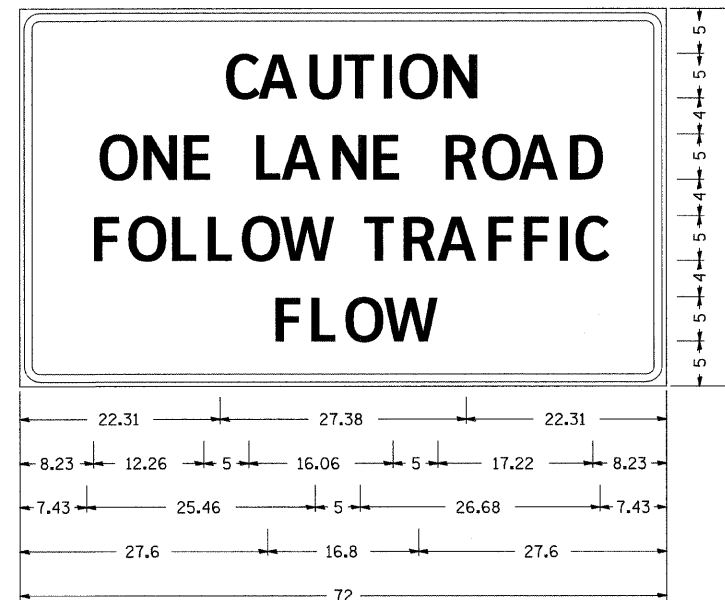
DATE = Fri, Dec 28 13:52:59, 2007
 FILE NAME = o:\projects\2007\107065.d\107065.dgn
 PLOT SCALE = 50.00000 "/ IN.
 REFERENCE = *REF*

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
549	117 T	OGLE	86	63
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

WITNESS MARKER FOR PERMANENT SURVEY MARKERS, TYPE II



ENTRANCE SIGN FOR USE WITH TEMPORARY SIGNALS



Type AA Fluorescent Orange Sheeting ;
 2.25" Radius, 0.88" Border, 0.50" Indent, Black on Orange;
 [CAUTION] D; [ONE LANE ROAD] D;
 [FOLLOW TRAFFIC] D; [FLOW] D

Table Of Widths And Spaces

22.31	C	3.36	0.62	A	4.18	0.94	U	3.36	0.94	T	3.04	0.94	I	0.78	1.17	O	3.52	1.17	N	3.36	22.31
8.23	O	3.51	1.17	N	3.36	1.18	E	3.04													
	L	5.00	3.05	0.31	A	4.18	0.94	N	3.36	1.17	E	3.05									
	R	5.00	3.36	0.93	O	3.52	0.94	A	4.18	0.93	D	3.36	8.23								
7.43	F	3.04	0.94	O	3.52	1.17	L	3.04	0.94	L	3.05	0.94	O	3.51	0.94	W	4.37				
	T	5.00	3.05	0.94	R	3.36	0.94	A	4.18	0.93	F	3.05	0.94	F	3.04	0.94	I	0.78	1.18	C	7.43
27.60	F	3.05	0.94	L	3.04	0.94	O	3.52	0.93	W	4.38	27.60									

GENERAL NOTES

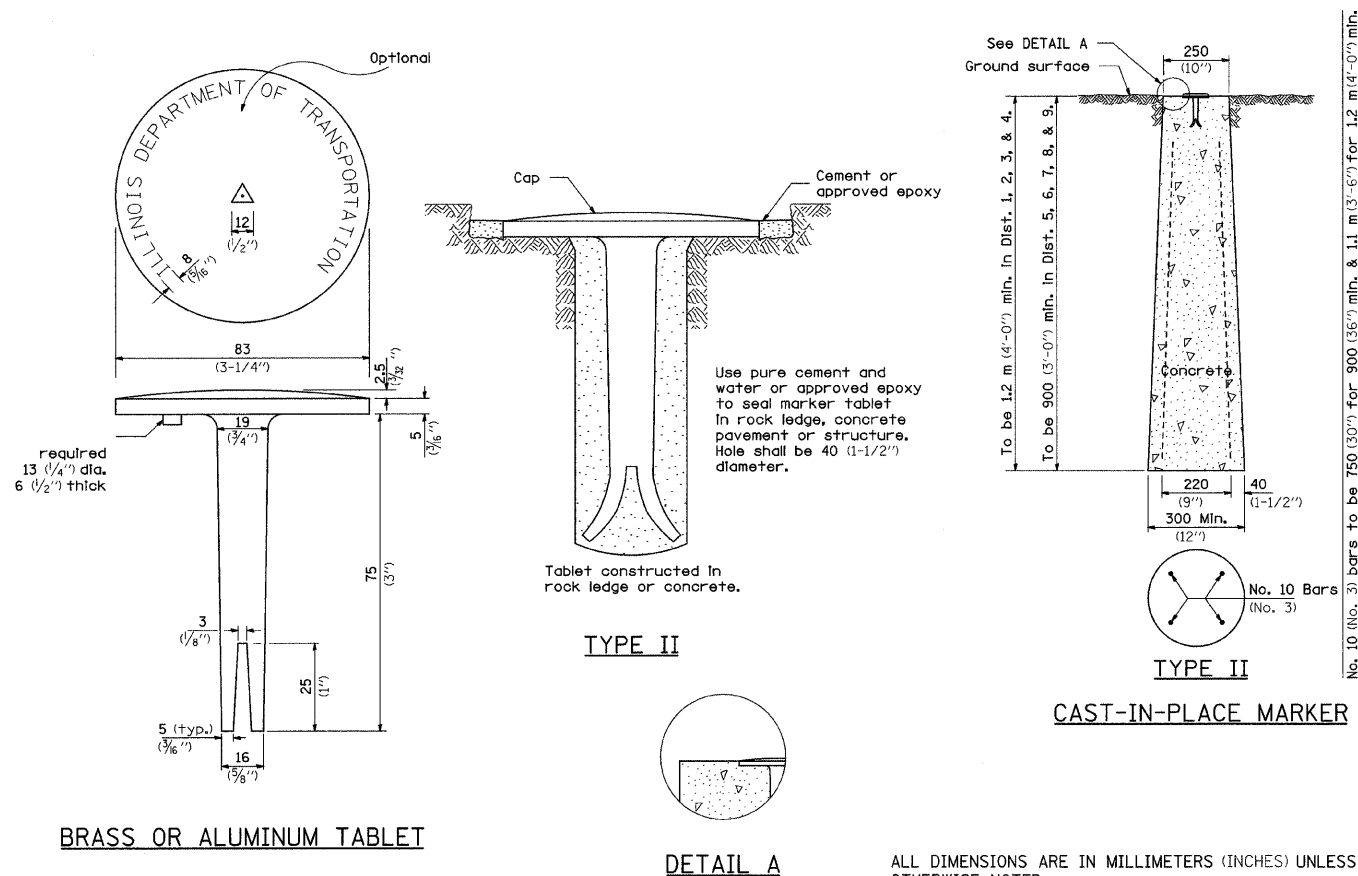
THIS SIGN SHALL BE INSTALLED AT ENTRANCES LOCATED BETWEEN THE TEMPORARY SIGNALS AS DIRECTED BY THE ENGINEER.

ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE NOTED.

THE COST TO FURNISH, INSTALL AND REMOVE THIS SIGN AT THE REQUIRED LOCATIONS SHALL BE INCLUDED IN THE COST OF TRAFFIC CONTROL AND PROTECTION STANDARD 701321.

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

PERMANENT SURVEY MARKERS, TYPE II



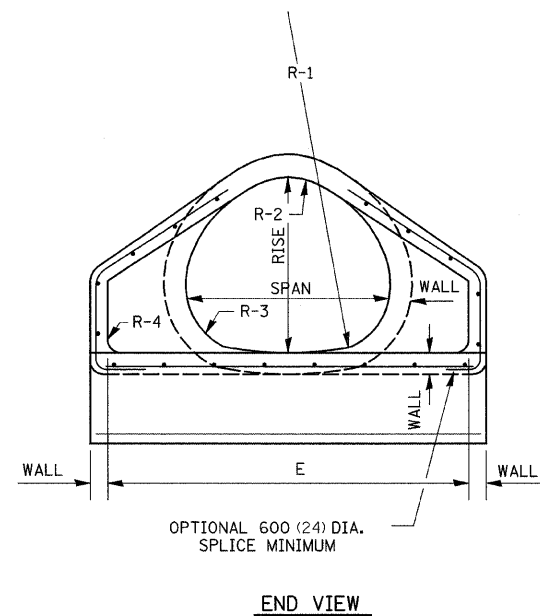
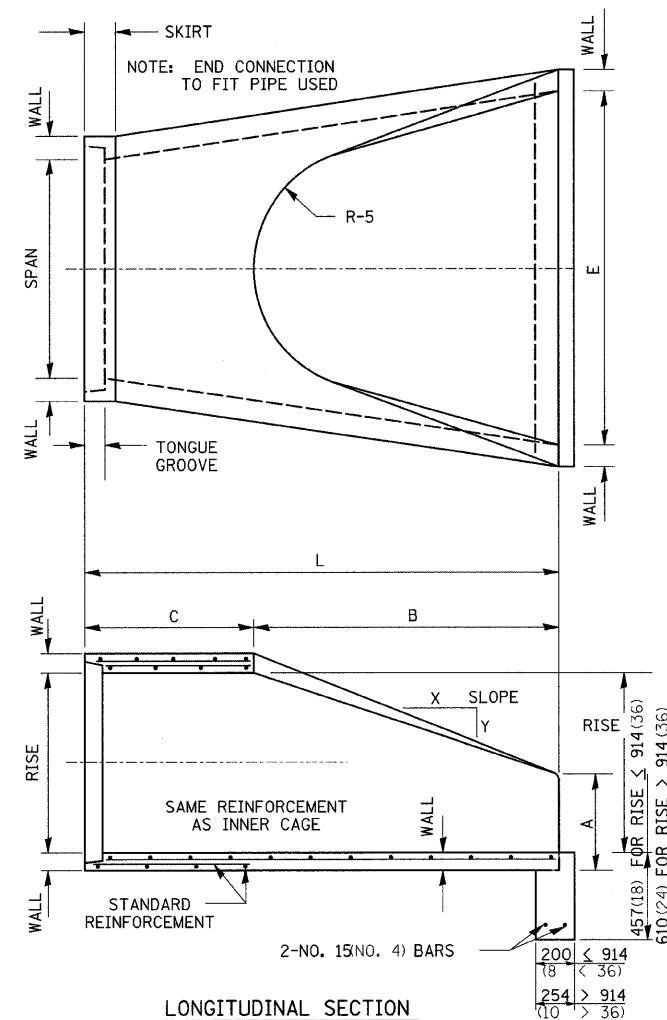
No. 10 (No. 3) bars to be 750 (30") for 900 (36") min. & 1.1 m (3'-6") for 1.2 m (4'-0") min.

PLOT DATE = Fri, Dec 28 13:45:25 2007
 FILE NAME = c:\p\projects\117\11705\11705.dgn
 PLOT SCALE = 1/16" = 1" / IN.
 REFERENCE = REF#

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
549	117 T	OGLE	86	64
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

PRECAST REINFORCED CONCRETE ARCH DIAMETER FLARED END SECTION

SIZE	WALL	SPAN	RISE	L	B	C	E	A	SLOPE	R-1	R-2	R-3	R-4	R-5
450 (18)	64 (2 1/2)	559 (22)	343 (13 1/2)	1829 (72)	686 (27)	1143 (45)	914 (36)	178 (7)	1:2.16	699 (27 1/2)	349 (13 3/4)	133 (5 1/4)	51 (2)	305 (12)
600 (24)	76 (3)	724 (28 1/2)	457 (18)	1829 (72)	991 (39)	838 (33)	1219 (48)	203 (8)	1:2.29	1033 (40 5/8)	370 (14 5/8)	117 (4 5/8)	76 (3)	356 (14)
750 (30)	89 (3 1/2)	921 (36 1/4)	572 (22 1/2)	1829 (72)	1219 (48)	610 (24)	1524 (60)	254 (10)	1:2.34	1295 (51)	476 (18 3/4)	156 (6 1/8)	76 (3)	381 (15)
900 (36)	102 (4)	1111 (43 3/4)	676 (26 5/8)	2438 (96)	1524 (60)	914 (36)	1828 (72)	270 (10 5/8)	1:2.4	1575 (62)	572 (22 1/2)	165 (6 1/2)	152 (6)	508 (20)
1050 (42)	114 (4 1/2)	1308 (51 1/8)	795 (31 1/8)	2438 (96)	1524 (60)	914 (36)	1981 (78)	402 (15 3/8)	1:2.35	1854 (73)	667 (26 1/4)	197 (7 3/4)	152 (6)	559 (22)
1200 (48)	127 (5)	1485 (58 1/2)	914 (36)	2438 (96)	1524 (60)	914 (36)	2134 (84)	533 (21)	1:2.31	2134 (84)	762 (30)	225 (8 7/8)	152 (6)	559 (22)
1350 (54)	140 (5 1/2)	1651 (65)	1016 (40)	2438 (96)	1524 (60)	914 (36)	2286 (90)	648 (25 1/2)	1:2.26	2350 (92 1/2)	848 (33 3/8)	254 (10)	152 (6)	610 (24)
1500 (60)	152 (6)	1854 (73)	1143 (45)	2438 (96)	1905 (75)	533 (21)	2438 (96)	660 (26)	1:2.34	2667 (105)	953 (37 1/2)	281 (11 1/8)	152 (6)	533 (21)
1800 (72)	178 (7)	2235 (88)	1371 (54)	2540 (100)	1981 (78)	559 (22)	3048 (120)	889 (35)	1:2.29	3200 (126)	1143 (45)	338 (13 3/8)	152 (6)	610 (24)



- NOTES:**
- PRECAST CONCRETE FLARED END SECTIONS SHALL CONFORM TO THE APPLICABLE REQUIREMENT OF AASHTO M-206.
 - PRECAST CONCRETE FLARED END SECTION FOR PIPE ARCH DIAMETER REQUIRED SHALL BE AS INDICATED ON DETAIL PLAN FOR EACH INDIVIDUAL INSTALLATION.
 - THE END BLOCK SHALL BE PLACED PRIOR TO THE INSTALLATION OF THE FLARED END SECTION. THE END BLOCK SHALL BE BACKFILLED IN ACCORDANCE WITH ART. 502.10 (502.11) OF THE STANDARD SPECIFICATIONS, COST INCIDENTAL TO END SECTION.
 - ALL DIMENSIONS ARE IN MILLIMETERS (INCHES) UNLESS OTHERWISE NOTED.

PLOT DATE = Fri Dec 28 13:52:59 2007
 FILE NAME = c:\p\proj\etc\p2187785\d187785ep1.dgn
 PLOT SCALE = 50.0000 / / IN.
 REFERENCE = #REF#

STORM WATER POLLUTION PREVENTION PLAN

EROSION CONTROL PLAN

CONTRACT NO. 64B44				
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
549	117 T	OGLE	86	65
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 COMPLETE REMOVAL AND REPLACEMENT OF FIVE BOX CULVERTS ALONG IL 72 FROM WEST OF LEAF RIVER TO MILL ROAD IN OGLE COUNTY

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) 2.01 ACRES

PROPOSED R.O.W (TOTAL PARCEL AREA) 2.17 ACRES

DISTURBED BY EXCAVATION (E.O.P TO CONSTRUCTION LIMIT) 2.01 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

EXISTING DRAINAGE DITCHES AT THESE BOX CULVERTS LOCATED LT AND RT OF IL 72

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.

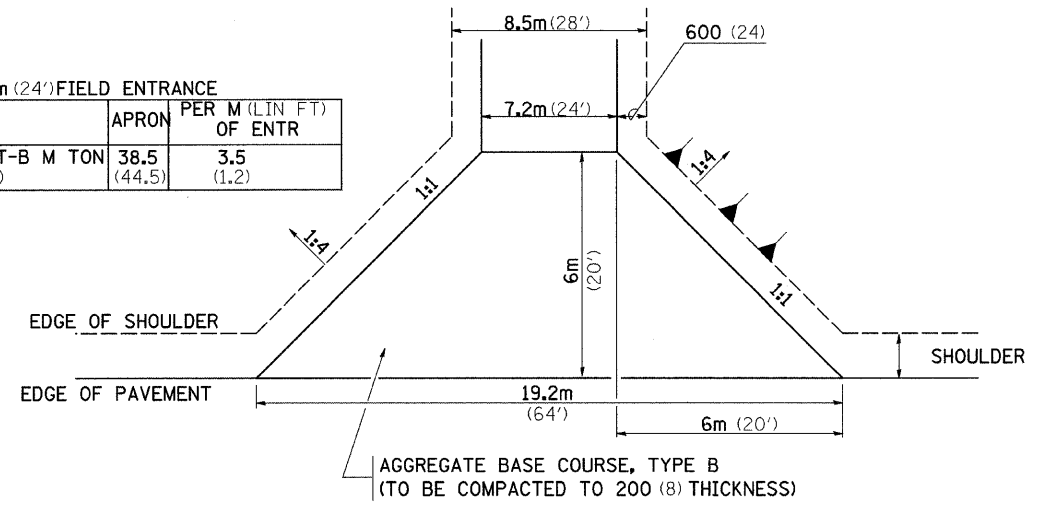
PLOT DATE = Fri Dec 28 13:45:30 2007
 FILE NAME = c:\p\projects\117765\117765sup1.dgn
 PLOT SCALE = 100.0000 / IN.
 REFERENCE = REF#

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
549	117 T	OGLE	86	66
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

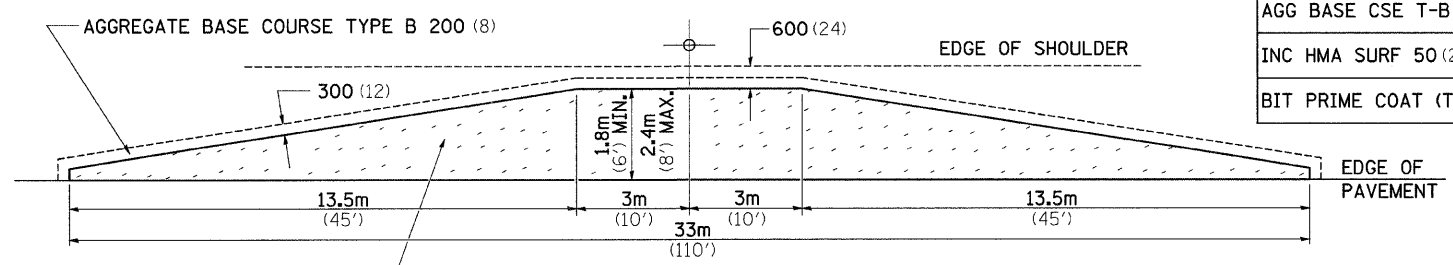
HOT-MIX ASPHALT APPROACHES & MAILBOX RETURNS

7.2m (24') FIELD ENTRANCE

AGG BASE CSE T-B M TON	APRON PER M (LIN FT) OF ENTR
38.5 (44.5)	3.5 (1.2)



FIELD ENTRANCE



ON ALL ENTRANCES
AGGREGATE BASE COURSE TYPE B 200 (8)
INCIDENTAL HOT-MIX ASPHALT SURFACING 50 (2)

MAILBOX TURNOUT

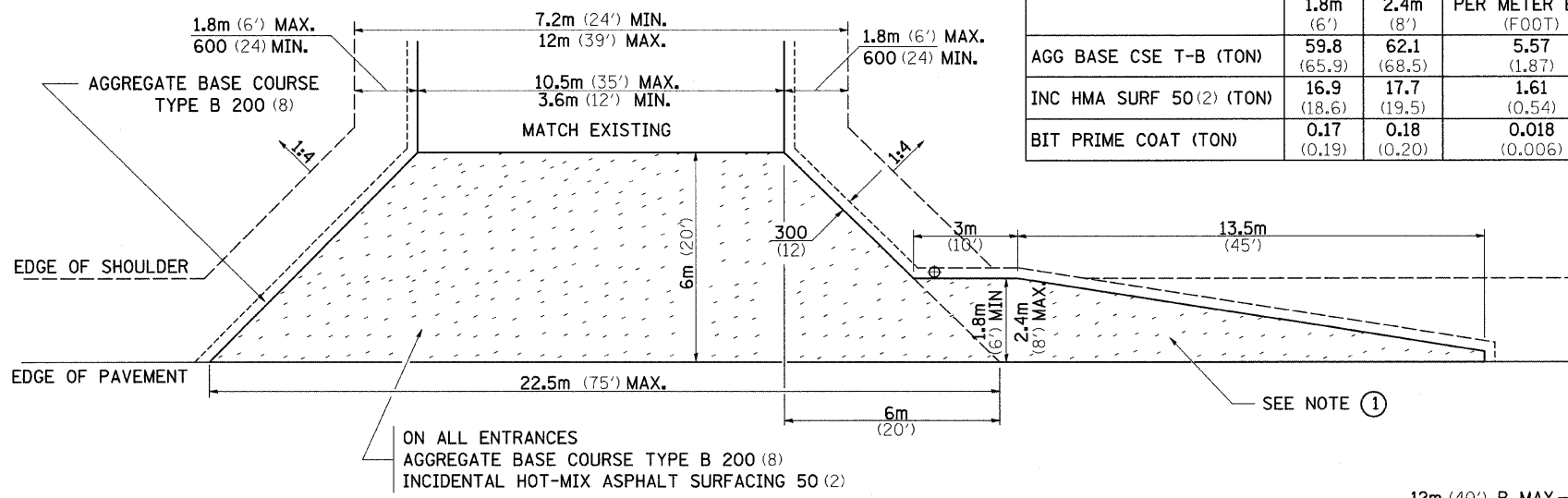
	1.8m (6')	2.4m (8')
AGG BASE CSE T-B (TON)	22.2 (24.5)	28.2 (31.1)
INC HMA SURF 50 (2) (TON)	5.3 (5.8)	7.1 (7.8)
BIT PRIME COAT (TON)	0.05 (0.06)	0.07 (0.08)

NOTE

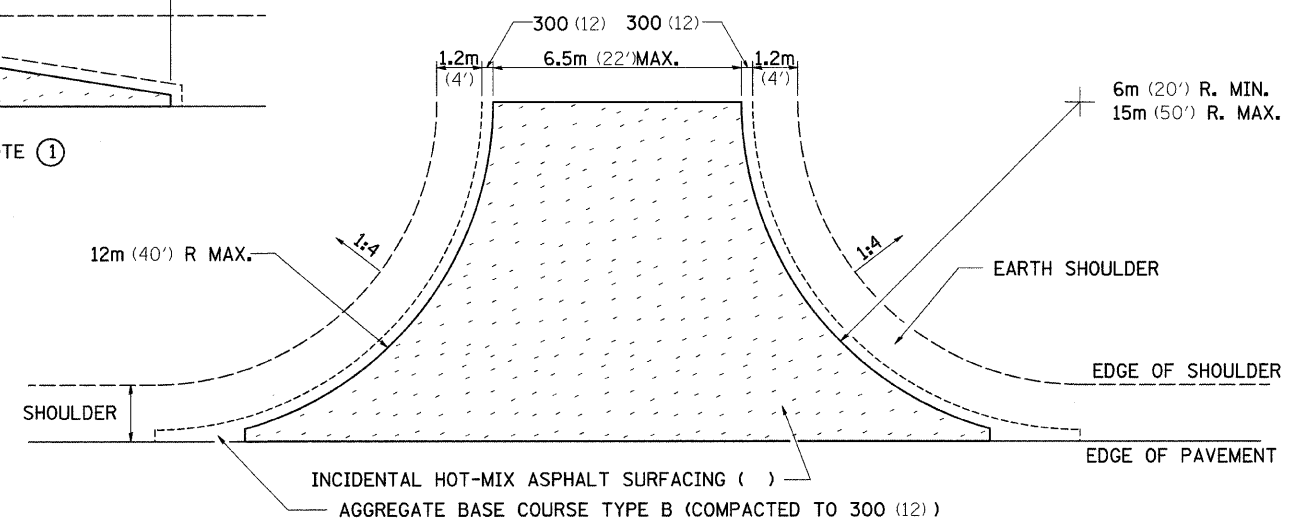
- TURNOUTS ARE TO BE CONSTRUCTED ON THE APPROACH SIDE OF ALL PE & CE REGARDLESS IF A MAILBOX IS PRESENT.
- ALL PE & CE ARE TO BE SURFACED TO RIGHT OF WAY LINE. AREA BEHIND RIGHT OF WAY SHALL MATCH EXISTING SURFACE.
- FE ARE TO BE AGGREGATE TO RIGHT OF WAY OR TOUCH DOWN, WHICH EVER IS GREATEST.
- QUANTITIES 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.

10.5m (35') COMMERCIAL ENTRANCE

	1.8m (6')	2.4m (8')	PER METER ENTR (FOOT)
AGG BASE CSE T-B (TON)	59.8 (65.9)	62.1 (68.5)	5.57 (1.87)
INC HMA SURF 50 (2) (TON)	16.9 (18.6)	17.7 (19.5)	1.61 (0.54)
BIT PRIME COAT (TON)	0.17 (0.19)	0.18 (0.20)	0.018 (0.006)



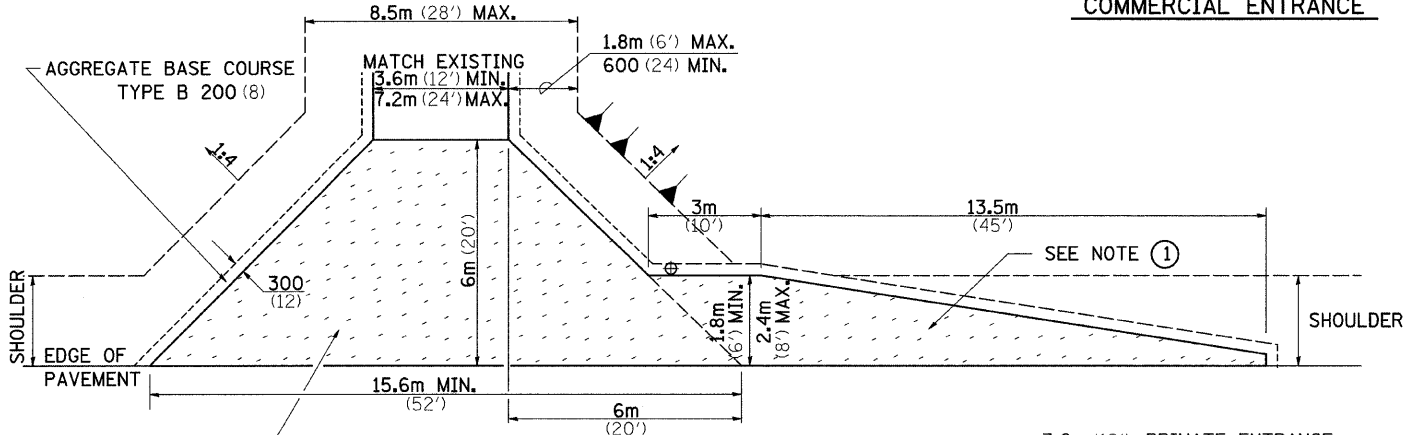
COMMERCIAL ENTRANCE



SIDE ROAD RETURN

	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')
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)
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)
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)

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



3.6m (12') PRIVATE ENTRANCE

	1.8m (6')	2.4m (8')	PER METER ENTR (FOOT)
AGG BASE CSE T-B (TON)	39.7 (43.8)	42.0 (46.3)	2.11 (0.71)
INC HMA SURF 50 (2) (TON)	10.7 (11.8)	11.5 (12.7)	0.57 (0.19)
BIT PRIME COAT (TON)	0.11 (0.12)	0.18 (0.13)	0.006 (0.002)

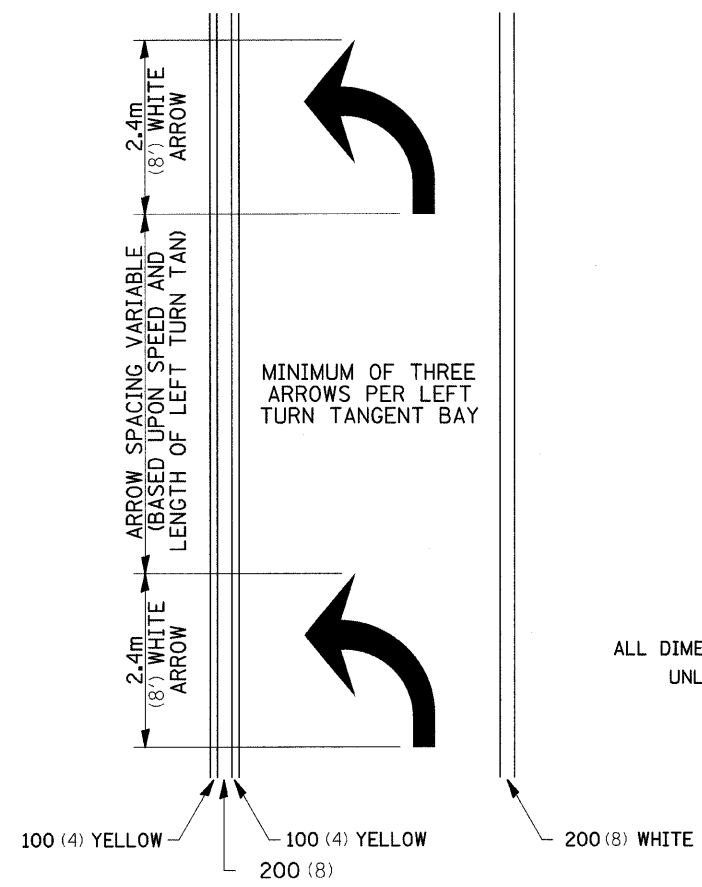
PRIVATE ENTRANCE

PLOT DATE = Fri Dec 28 13:53:08 2007
 FILE NAME = c:\projects\64b44\210706\10706sp.dgn
 PLOT SCALE = 50.00000 / IN.
 REFERENCE = REF#

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
549	117 T	OGLE	86	68
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

TYPICAL PAVEMENT MARKINGS

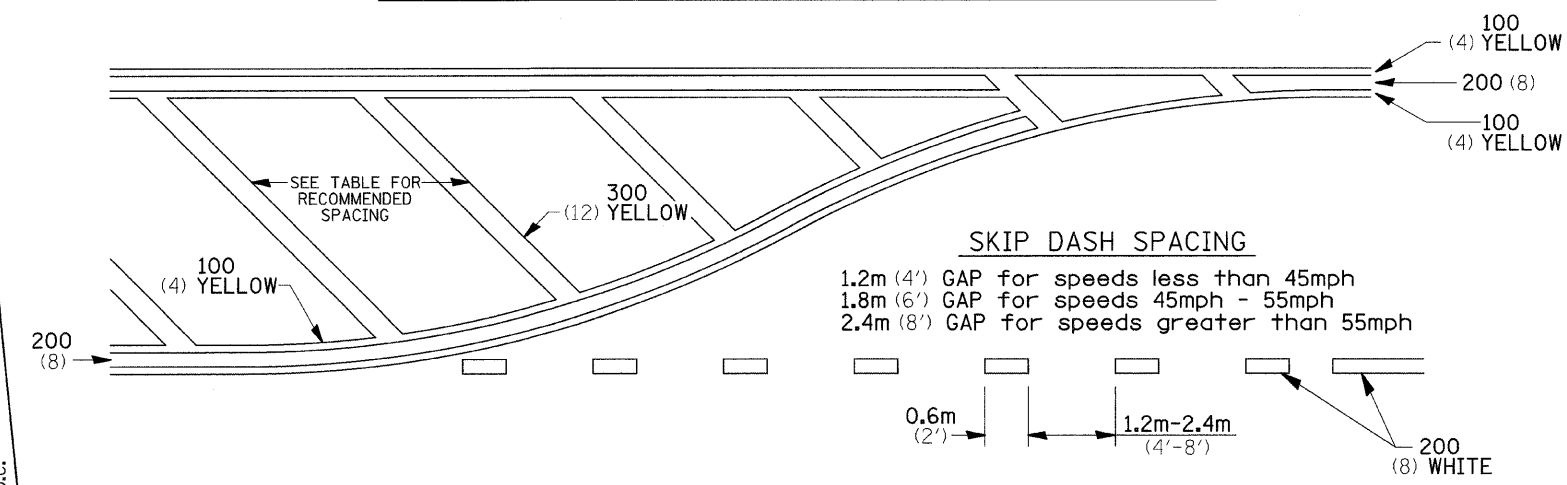
ARROW LAYOUT



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

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

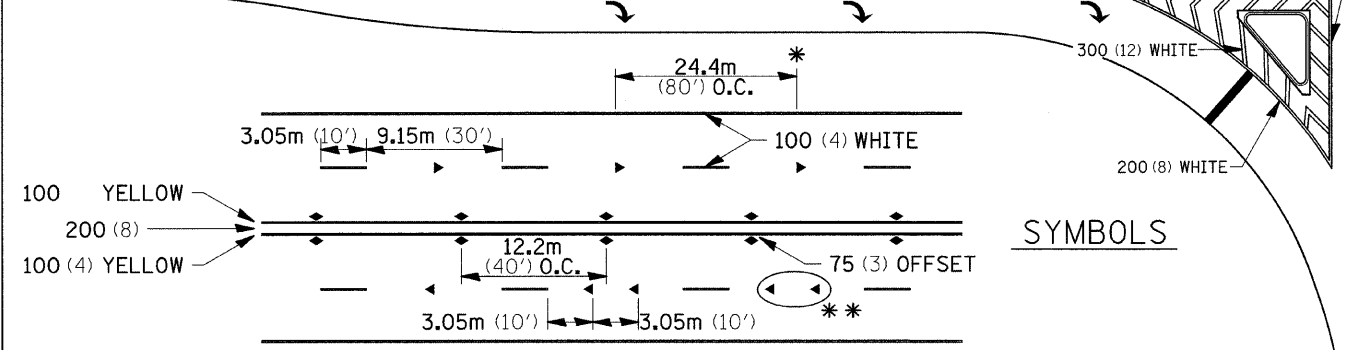
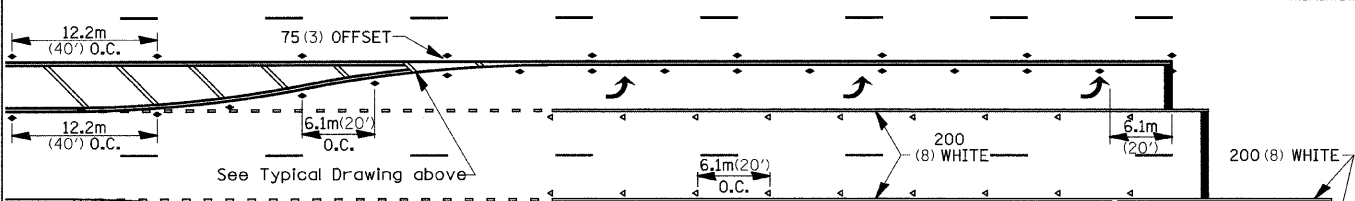
TYPICAL PAVEMENT MARKING FOR FLUSH MEDIAN



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.



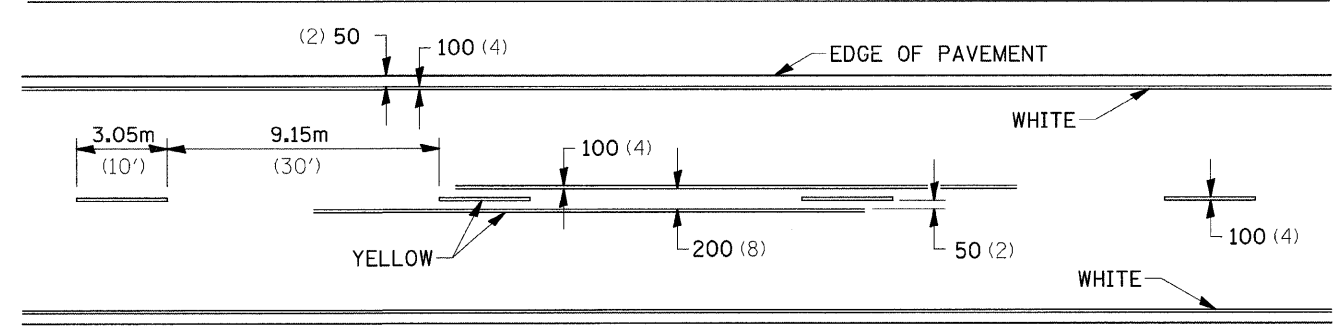
- * REDUCE TO 12.2m (40') O.C. ON CURVES WHERE ADVISORY SPEEDS ARE 15km/H (10MPH) LOWER THAN POSTED SPEEDS.
- ** USE DOUBLE MARKERS WHEN ADT ≥ 25,000

MULTI-LANE / UNDIVIDED

SYMBOLS

See Typical Drawing above
12.2m (40') O.C.
6 at (40') O.C. APPROACH SIDE ONLY

TYPICAL PAVEMENT MARKING FOR TWO LANE SECTION - NO PASSING ZONES



PLOT DATE = Fri, Dec 28, 13:53:08, 2007
 FILE NAME = c:\projects\p210705\p210705.dwg
 PLOT SCALE = 80.0000 / IN.
 REFERENCE = #REF#

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
549	117 T	OGLE	86	69
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

DETAIL OF PRECAST CONCRETE BOX CULVERTS AND END SECTIONS

GENERAL NOTES

PRECAST CONCRETE BOX CULVERTS AND PRECAST CONCRETE BOX CULVERT END SECTIONS

THIS WORK CONSISTS OF FURNISHING AND INSTALLING PRECAST BOX CULVERTS AND BOX CULVERT END SECTIONS AS SHOWN ON THE PLANS AND SPECIFIED HEREIN.

IF THE EARTH COVER IS 600 (2 FT) OR MORE, THE PRECAST CONCRETE BOX CULVERT SECTIONS SHALL CONFORM TO THE REQUIREMENTS OF ASTM C789 EXCEPT THAT THE AGGREGATE SHALL CONFORM TO THE REQUIREMENTS OF ARTICLES 1003.02 AND 1004.02 OF THE STANDARD SPECIFICATIONS, WITH THE EXCEPTION OF A GRADATION.

IF THE EARTH COVER IS LESS THAN 600 (2 FT), THE PRECAST BOX CULVERT BARREL SECTIONS SHALL CONFORM TO THE REQUIREMENTS OF ASTM C850 AND THE END SECTIONS SHALL CONFORM TO THE REQUIREMENTS OF ASTM C789. WITH THE EXCEPTION OF GRADATION, THE AGGREGATE SHALL CONFORM TO THE REQUIREMENTS OF ARTICLES 1003.02 AND 1004.02 OF THE STANDARD SPECIFICATIONS.

ALL APPLICABLE REQUIREMENTS OF ARTICLE 540 OF THE STANDARD SPECIFICATIONS.

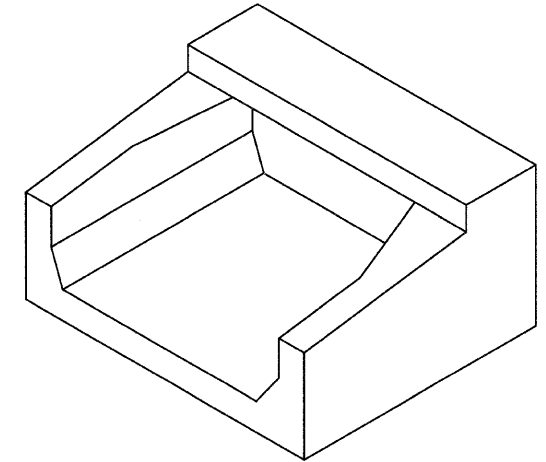
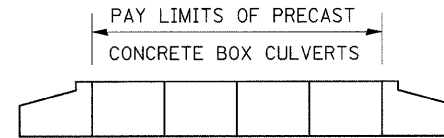
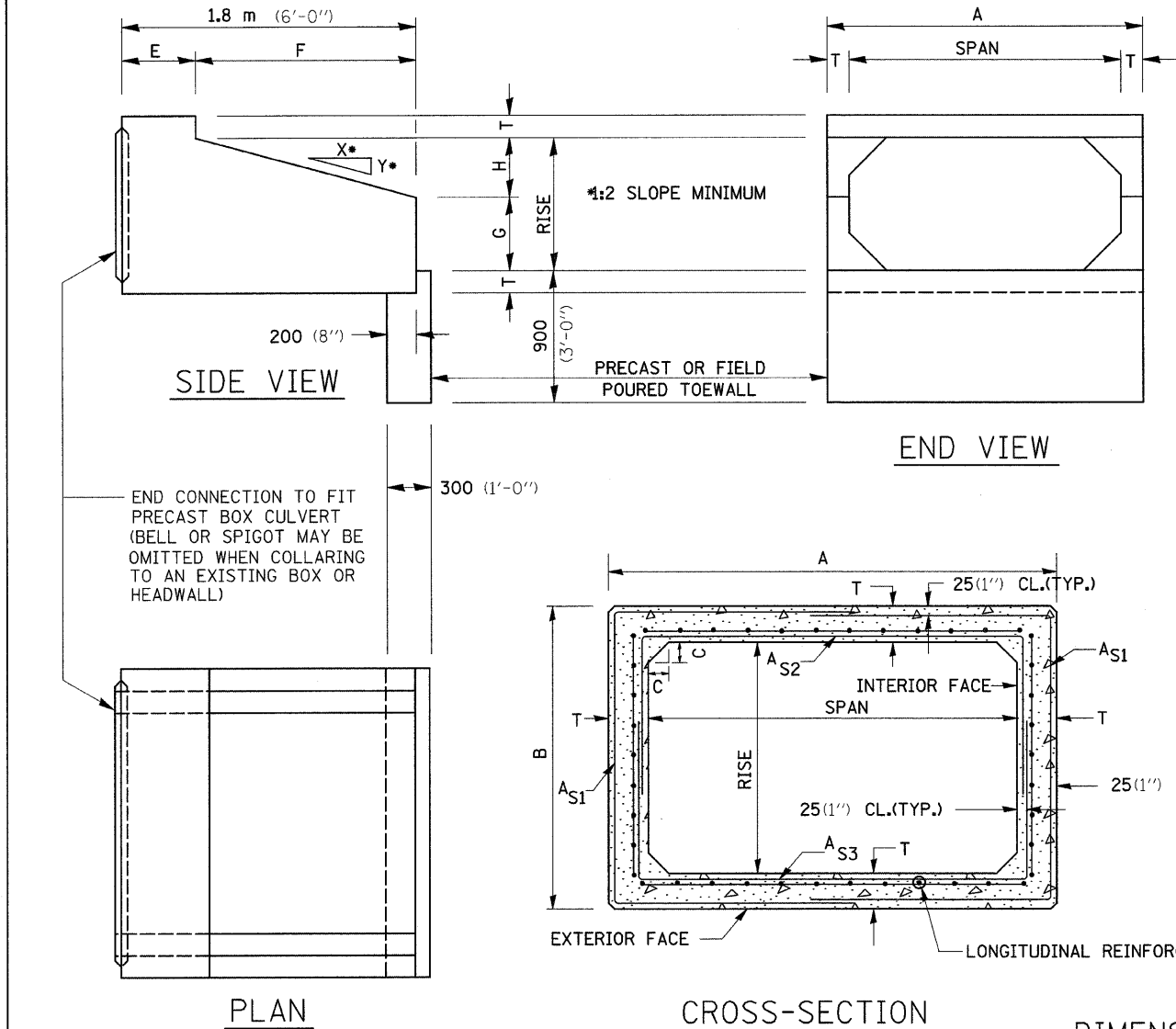
THE EXCAVATION AND BACKFILLING FOR PRECAST CONCRETE BOX CULVERT SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF SECTION 502 OF THE STANDARD SPECIFICATIONS EXCEPT A LAYER OF POROUS GRANULAR BACKFILL, AT LEAST 150 (6") IN THICKNESS, SHALL BE PLACED BELOW THE ELEVATION OF THE BOTTOM OF THE BOX. THE POROUS GRANULAR BACKFILL SHALL BE PLACED TO EXTEND AT LEAST 600 (2 FT) EACH SIDE OF THE BOX. THE PRECAST CONCRETE BOX CULVERT SHALL BE LAID IN ACCORDANCE WITH THE APPLICABLE REQUIREMENTS OF ARTICLE 542.04 (d) OF THE STANDARD SPECIFICATIONS

SHOP PLANS FOR THE PRECAST CONCRETE BOX CULVERT SECTIONS AND THE END SECTIONS SHALL BE SUBMITTED IN ACCORDANCE WITH THE REQUIREMENTS OF ARTICLE 1042.03 (b) OF THE STANDARD SPECIFICATIONS.

THE PRECAST CONCRETE BOX CULVERT EXCLUDING END SECTIONS WILL BE MEASURED ON A METER (LINEAL FOOT) BASIC. THE PRECAST BOX CULVERT WILL BE PAID FOR AT THE CONTRACT UNIT PRICE PER METER (LINEAL FOOT) FOR PRECAST CONCRETE BOX CULVERT, OF THE SIZE SPECIFIED, AND INCLUDES POROUS GRADULAR BACKFILL EXCEPT EXCAVATION OF ROCK AND/OR UNSTABLE OR UNSUITABLE MATERIAL BELOW BEDDING GRADE

THE PRECAST CONCRETE BOX CULVERT END SECTION WILL BE MEASURED ON AN EACH BASIS. THE END SECTIONS WILL BE PAID FOR AT THE CONTRACT UNIT PRICE EACH FOR BOX CULVERT END SECTIONS, OF THE CULVERT NUMBER SPECIFIED, AND INCLUDE EXCAVATION, TOEWALL AND COLLARS.

• ALL DIMENSIONS SHOULD BE VERIFIED WITH SUPPLIER.



DIMENSIONS (FOR ASTM C789) *

SPAN X RISE (ft) meter	T (mm) (INCHES)	A (mm) (FT.-IN.)	B (mm) (FT.-IN.)	C (mm) (INCHES)	E (mm) (FT.-IN.)	F (mm) (FT.-IN.)	G (mm) (FT.-IN.)	H (mm) (FT.-IN.)	SLOPE (X : Y)
0.6 x 0.6 (2'x2')	100 (4)	800 (2-8)	800 (2-8)	100 (4)	900 (3-0)	900 (3-0)	300 (1-0)	300 (1-0)	1:2
0.9 x 0.6 (3'x2')	100 (4)	1100 (3-8)	800 (2-8)	100 (4)	900 (3-0)	900 (3-0)	300 (1-0)	300 (1-0)	1:2
0.9 x 0.75 (3'x2.5')	100 (4)	1100 (3-8)	950 (3-2)	100 (4)	900 (3-0)	900 (3-0)	375 (1-3)	375 (1-3)	1:2
0.9 x 0.9 (3'x3')	100 (4)	1100 (3-8)	1100 (3-8)	100 (4)	600 (2-0)	1200 (4-0)	500 (1-8)	400 (1-4)	1:2
1.2 x 0.6 (4'x2')	125 (5)	1450 (4-10)	850 (2-10)	125 (5)	900 (3-0)	900 (3-0)	300 (1-0)	300 (1-0)	1:2
1.2 x 0.9 (4'x3')	125 (5)	1450 (4-10)	1150 (3-10)	125 (5)	600 (2-0)	1200 (4-0)	500 (1-8)	400 (1-4)	1:2
1.2 x 1.2 (4'x4')	125 (5)	1450 (4-10)	1450 (5)	125 (5)	600 (2-0)	1200 (4-0)	600 (2-0)	600 (2-0)	1:2
1.5 x 0.6 (5'x2')	150 (6)	1800 (6-0)	900 (3-0)	150 (6)	900 (3-0)	900 (3-0)	300 (1-0)	300 (1-0)	1:2
1.5 x 0.9 (5'x3')	150 (6)	1800 (6-0)	1200 (4-0)	150 (6)	600 (2-0)	1200 (4-0)	500 (1-8)	400 (1-4)	1:2
1.5 x 1.2 (5'x4')	150 (6)	1800 (6-0)	1500 (5-0)	150 (6)	600 (2-0)	1200 (4-0)	600 (2-0)	600 (2-0)	1:2
1.5 x 1.5 (5'x5')	150 (6)	1800 (6-0)	1800 (6-0)	150 (6)	600 (2-0)	1200 (4-0)	900 (3-0)	600 (2-0)	1:2
1.8 x 0.6 (6'x2')	175 (7)	2150 (7-2)	950 (3-2)	175 (7)	900 (3-0)	900 (3-0)	300 (1-0)	300 (1-0)	1:2
1.8 x 0.9 (6'x3')	175 (7)	2150 (7-2)	1250 (4-2)	175 (7)	600 (2-0)	1200 (4-0)	500 (1-8)	400 (1-4)	1:2
1.8 x 1.2 (6'x4')	175 (7)	2150 (7-2)	1550 (5-2)	175 (7)	600 (2-0)	1200 (4-0)	600 (2-0)	600 (2-0)	1:2
1.8 x 1.5 (6'x5')	175 (7)	2150 (7-2)	1850 (6-2)	175 (7)	600 (2-0)	1200 (4-0)	900 (3-0)	600 (2-0)	1:2
1.8 x 1.8 (6'x6')	175 (7)	2150 (7-2)	2150 (7)	175 (7)	600 (2-0)	1200 (4-0)	1200 (4-0)	600 (2-0)	1:2

SPAN X RISE (ft) meter	T (mm) (INCHES)	A (mm) (FT.-IN.)	B (mm) (FT.-IN.)	C (mm) (INCHES)	E (mm) (FT.-IN.)	F (mm) (FT.-IN.)	G (mm) (FT.-IN.)	H (mm) (FT.-IN.)	SLOPE (X : Y)
2.1 x 0.9 (7'x3')	200 (8)	2500 (8-4)	1300 (4-4)	200 (8)	600 (2-0)	1200 (4-0)	300 (1-0)	600 (2-0)	1:2
2.1 x 1.2 (7'x4')	200 (8)	2500 (8-4)	1600 (5-4)	200 (8)	600 (2-0)	1200 (4-0)	600 (2-0)	600 (2-0)	1:2
2.1 x 1.5 (7'x5')	200 (8)	2500 (8-4)	1900 (6-4)	200 (8)	600 (2-0)	1200 (4-0)	900 (3-0)	600 (2-0)	1:2
2.1 x 1.8 (7'x6')	200 (8)	2500 (8-4)	2200 (7-4)	200 (8)	600 (2-0)	1200 (4-0)	1200 (4-0)	600 (2-0)	1:2
2.1 x 2.1 (7'x7')	200 (8)	2500 (8-4)	2500 (8-4)	200 (8)	600 (2-0)	1200 (4-0)	1500 (5-0)	600 (2-0)	1:2
2.4 x 0.9 (8'x3')	200 (8)	2800 (9-4)	1300 (4-4)	200 (8)	600 (2-0)	1200 (4-0)	300 (1-0)	600 (2-0)	1:2
2.4 x 1.2 (8'x4')	200 (8)	2800 (9-4)	1600 (5-4)	200 (8)	600 (2-0)	1200 (4-0)	600 (2-0)	600 (2-0)	1:2
2.4 x 1.5 (8'x5')	200 (8)	2800 (9-4)	1900 (6-4)	200 (8)	600 (2-0)	1200 (4-0)	900 (3-0)	600 (2-0)	1:2
2.4 x 1.8 (8'x6')	200 (8)	2800 (9-4)	2200 (7-4)	200 (8)	600 (2-0)	1200 (4-0)	1200 (4-0)	600 (2-0)	1:2
2.4 x 2.1 (8'x7')	200 (8)	2800 (9-4)	2500 (8-4)	200 (8)	600 (2-0)	1200 (4-0)	1500 (5-0)	600 (2-0)	1:2
2.4 x 2.4 (8'x8')	200 (8)	2800 (9-4)	2800 (9-4)	200 (8)	600 (2-0)	1200 (4-0)	1800 (6-0)	600 (2-0)	1:2
2.7 x 0.9 (9'x3')	225 (9)	3150 (10-6)	1350 (4-6)	225 (9)	600 (2-0)	1200 (4-0)	300 (1-0)	600 (2-0)	1:2
2.7 x 1.2 (9'x4')	225 (9)	3150 (10-6)	1650 (5-6)	225 (9)	600 (2-0)	1200 (4-0)	600 (2-0)	600 (2-0)	1:2
2.7 x 1.5 (9'x5')	225 (9)	3150 (10-6)	1950 (6-6)	225 (9)	600 (2-0)	1200 (4-0)	900 (3-0)	600 (2-0)	1:2
2.7 x 1.8 (9'x6')	225 (9)	3150 (10-6)	2250 (7-6)	225 (9)	600 (2-0)	1200 (4-0)	1200 (4-0)	600 (2-0)	1:2
2.7 x 2.1 (9'x7')	225 (9)	3150 (10-6)	2600 (8-6)	225 (9)	600 (2-0)	1200 (4-0)	1500 (5-0)	600 (2-0)	1:2

SPAN X RISE (ft) meter	T (mm) (INCHES)	A (mm) (FT.-IN.)	B (mm) (FT.-IN.)	C (mm) (INCHES)	E (mm) (FT.-IN.)	F (mm) (FT.-IN.)	G (mm) (FT.-IN.)	H (mm) (FT.-IN.)	SLOPE (X : Y)
2.7 x 2.4 (9'x8')	225 (9)	3150 (10-6)	2900 (9-6)	225 (9)	600 (2-0)	1200 (4-0)	1800 (6-0)	600 (2-0)	1:2
2.7 x 2.7 (9'x9')	225 (9)	3150 (10-6)	3150 (10-6)	225 (9)	600 (2-0)	1200 (4-0)	2100 (7-0)	600 (2-0)	1:2
3.0 x 0.9 (10'x3')	255 (10)	3550 (11-8)	1425 (4-8)	250 (10)	600 (2-0)	1200 (4-0)	500 (1-8)	400 (1-4)	1:2
3.0 x 1.2 (10'x4')	255 (10)	3550 (11-8)	1725 (5-8)	250 (10)	600 (2-0)	1200 (4-0)	300 (1-0)	600 (2-0)	1:2
3.0 x 1.5 (10'x5')	255 (10)	3550 (11-8)	2025 (6-8)	250 (10)	600 (2-0)	1200 (4-0)	600 (2-0)	600 (2-0)	1:2
3.0 x 1.8 (10'x6')	255 (10)	3550 (11-8)	2350 (7-8)	250 (10)	600 (2-0)	1200 (4-0)	900 (3-0)	600 (2-0)	1:2
3.0 x 2.1 (10'x7')	255 (10)	3550 (11-8)	2650 (8-8)	250 (10)	600 (2-0)	1200 (4-0)	1500 (5-0)	600 (2-0)	1:2
3.0 x 2.4 (10'x8')	255 (10)	3550 (11-8)	2950 (9-8)	250 (10)	600 (2-0)	1200 (4-0)	1800 (6-0)	600 (2-0)	1:2
3.0 x 2.7 (10'x9')	255 (10)	3550 (11-8)	3250 (10-8)	250 (10)	600 (2-0)	1200 (4-0)	2100 (7-0)	600 (2-0)	1:2
3.0 x 3.0 (10'x10')	255 (10)	3550 (11-8)	3550 (11-8)	250 (10)	600 (2-0)	1200 (4-0)	2400 (8-0)	600 (2-0)	1:2
3.3 x 0.9 (11'x3')	280 (11)	3900 (12-10)	1475 (4-10)	275 (11)	600 (2-0)	1200 (4-0)	300 (1-0)	600 (2-0)	1:2
3.3 x 1.2 (11'x4')	280 (11)	3900 (12-10)	1775 (5-10)	275 (11)	600 (2-0)	1200 (4-0)	600 (2-0)	600 (2-0)	1:2
3.3 x 1.5 (11'x5')	280 (11)	3900 (12-10)	2075 (6-10)	275 (11)	600 (2-0)	1200 (4-0)	900 (3-0)	600 (2-0)	1:2
3.3 x 1.8 (11'x6')	280 (11)	3900 (12-10)	2400 (7-10)	275 (11)	600 (2-0)	1200 (4-0)	1200 (4-0)	600 (2-0)	1:2
3.3 x 2.1 (11'x7')	280 (11)	3900 (12-10)	2700 (8-10)	275 (11)	600 (2-0)	1200 (4-0)	1500 (5-0)	600 (2-0)	1:2
3.3 x 2.4 (11'x8')	280 (11)	3900 (12-10)	3000 (9-10)	275 (11)	600 (2-0)	1200 (4-0)	1800 (6-0)	600 (2-0)	1:2

SPAN X RISE (ft) meter	T (mm) (INCHES)	A (mm) (FT.-IN.)	B (mm) (FT.-IN.)	C (mm) (INCHES)	E (mm) (FT.-IN.)	F (mm) (FT.-IN.)	G (mm) (FT.-IN.)	H (mm) (FT.-IN.)	SLOPE (X : Y)
3.3 x 2.7 (11'x9')	280 (11)	3900 (12-10)	3300 (11-0)	275 (11)	600 (2-0)	1200 (4-0)	2100 (7-0)	600 (2-0)	1:2
3.3 x 3.0 (11'x10')	280 (11)	3900 (12-10)	3600 (11-10)	275 (11)	600 (2-0)	1200 (4-0)	2400 (8-0)	600 (2-0)	1:2
3.3 x 3.3 (11'x11')	280 (11)	3900 (12-10)	3900 (12-10)	275 (11)	600 (2-0)	1200 (4-0)	2700 (9-0)	600 (2-0)	1:2
3.6 x 0.9 (12'x3')	300 (12)	4250 (14-0)	1525 (5-0)	300 (12)	600 (2-0)	1200 (4-0)	300 (1-0)	600 (2-0)	1:2
3.6 x 1.2 (12'x4')	300 (12)	4250 (14-0)	1825 (6-0)	300 (12)	600 (2-0)	1200 (4-0)	600 (2-0)	600 (2-0)	1:2
3.6 x 1.5 (12'x5')	300 (12)	4250 (14-0)	2125 (7-0)	300 (12)	600 (2-0)	1200 (4-0)	900 (3-0)	600 (2-0)	1:2
3.6 x 1.8 (12'x6')	300 (12)	4250 (14-0)	2425 (8-0)	300 (12)	600 (2-0)	1200 (4-0)	1200 (4-0)	600 (2-0)	1:2
3.6 x 2.1 (12'x7')	300 (12)	4250 (14-0)	2725 (9-0)	300 (12)	600 (2-0)	1200 (4-0)	1500 (5-0)	600 (2-0)	1:2
3.6 x 2.4 (12'x8')	300 (12)	4250 (14-0)	3025 (10-0)	300 (12)	600 (2-0)	1200 (4-0)	1800 (6-0)	600 (2-0)	1:2

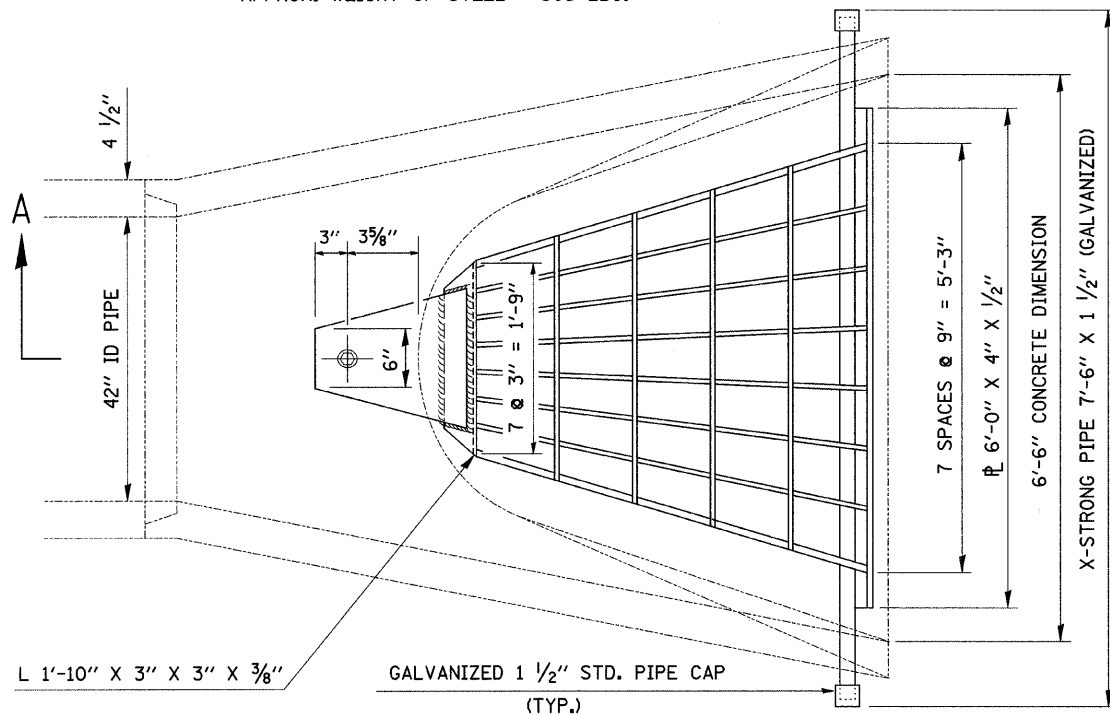
PLOT DATE = Fri Dec 28 13:55:38 2007
 FILE NAME = c:\projects\64b44\10785.dwg
 PLOT SCALE = 1/8" = 1'-0"
 REFERENCE = #REF#

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
549	117 T	OGLE	86	70
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

GRATING FOR ARCH DIAMETER CONCRETE FLARED END SECTION (FOR 42", 48", & 54" PIPE)

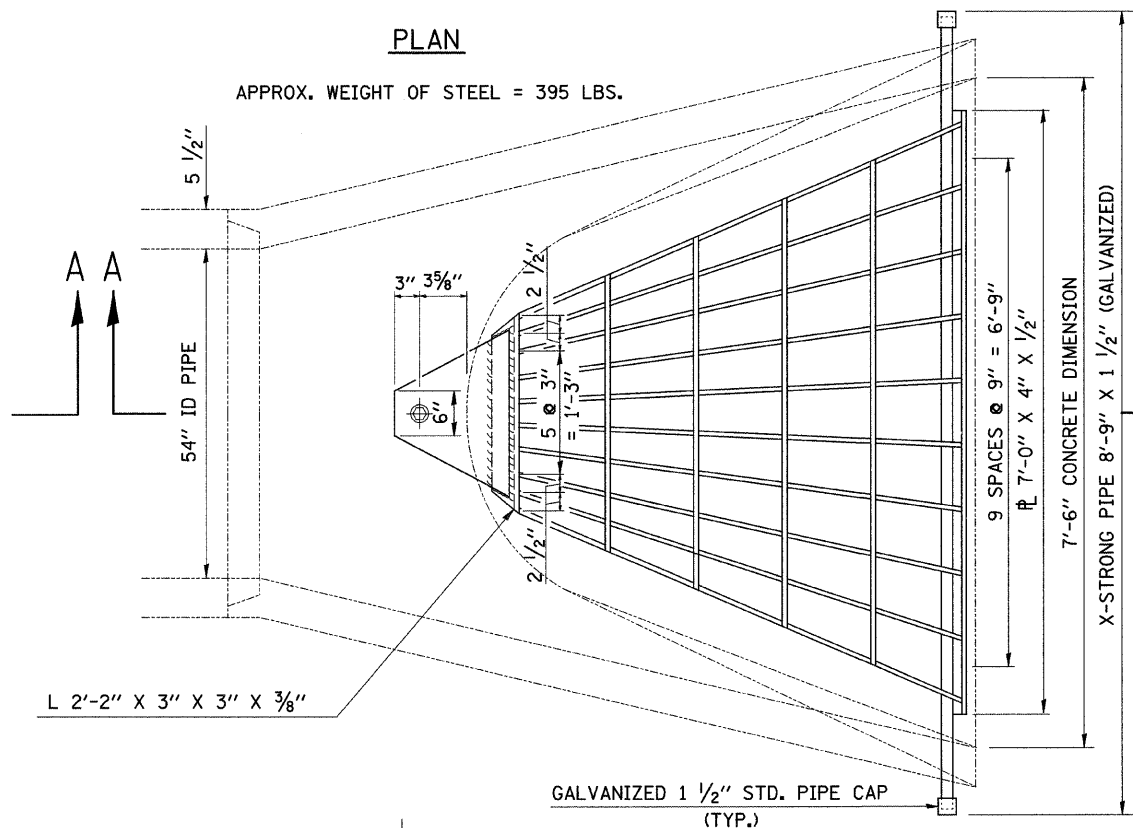
PLAN

APPROX. WEIGHT OF STEEL = 305 LBS.



PLAN

APPROX. WEIGHT OF STEEL = 395 LBS.



GENERAL NOTES

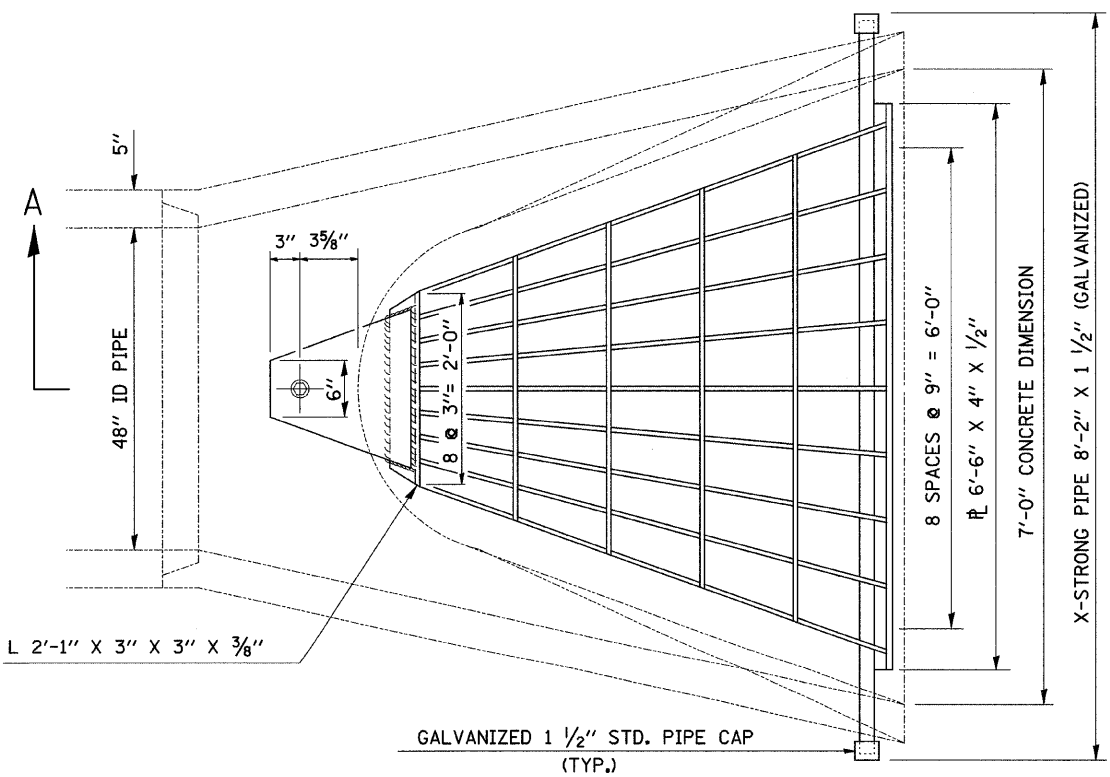
GRATING DETAILS SHOWN ARE INTENDED FOR USE WITH PARTICULAR SIZES OF PRECAST REINFORCED CONCRETE ARCH DIAMETER FLARED END SECTIONS AS SHOWN ON DISTRICT STANDARD 86.2

THE GRATING SHALL BE DONE IN ACCORDANCE WITH ARTICLE 542.07(b)(2) OF THE STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION.

THE CORED HOLES IN THE PRECAST CONCRETE FLARED END SECTIONS SHALL BE TO THE DIAMETERS NOTED. IF CONE-OUT ON THE OTHER END OF THE HOLE OCCURS, THE HOLE SHALL BE FILLED WITH GROUT TO CORRECT DIAMETER OF THE HOLE.

APPROXIMATE WEIGHT OF STEEL SHOWN INCLUDES TOTAL WEIGHT OF GRATING, BOLTS, WASHERS, NUTS AND STEEL PIPE.

THE CONTRACT UNIT PRICE " EACH " FOR GRATING FOR CONCRETE FLARED END SECTION EQUIVALENT ROUND-SIZE OF THE SIZE INDICATED SHALL INCLUDE FABRICATION AND INSTALLATION OF THE GRATING AS DETAILED HEREON, INCLUDING FABRICATION OF THE NECESSARY MOUNTING HOLES IN THE FLARED END SECTION, THIS PRICE DOES NOT INCLUDE THE COST OF THE PRECAST CONCRETE FLARED END SECTION.



PLAN

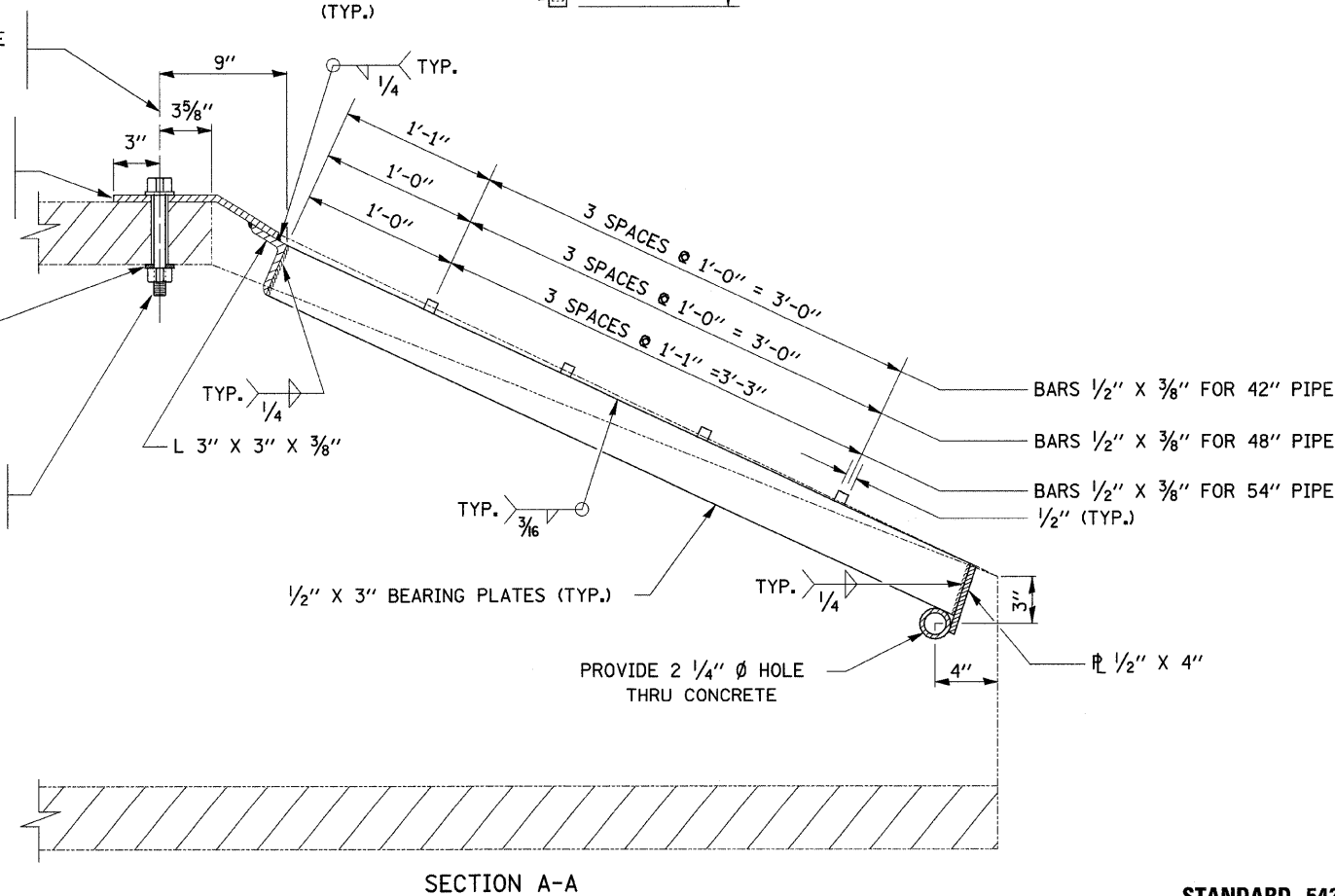
APPROX. WEIGHT OF STEEL = 335 LBS.

1 1/8" Ø HOLE THRU 3/8" PLATE
1 1/4" Ø HOLE THRU CONCRETE

3/8" PLATE SHALL CONFORM TO SURFACE SHAPE OF CONCRETE FLARED END SECTION

1/4" X 4" X 4" PLATE WASHER
1 1/16" Ø HOLE

1" Ø BOLT WITH FLAT WASHER AND HEX NUT



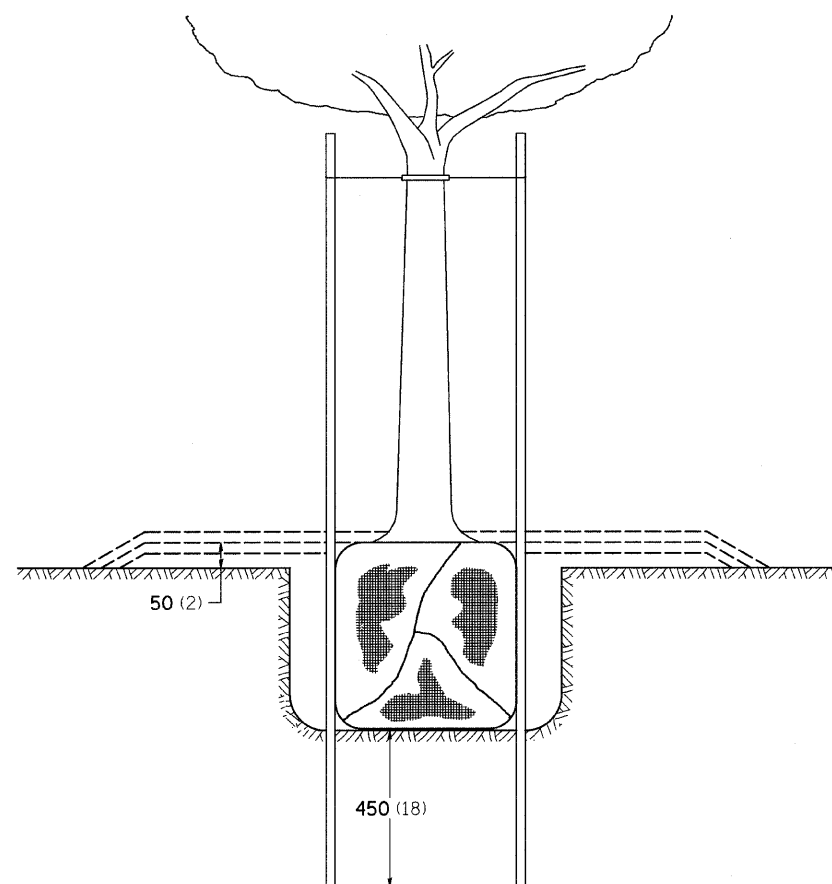
SECTION A-A

STANDARD 542311 (SPECIAL)

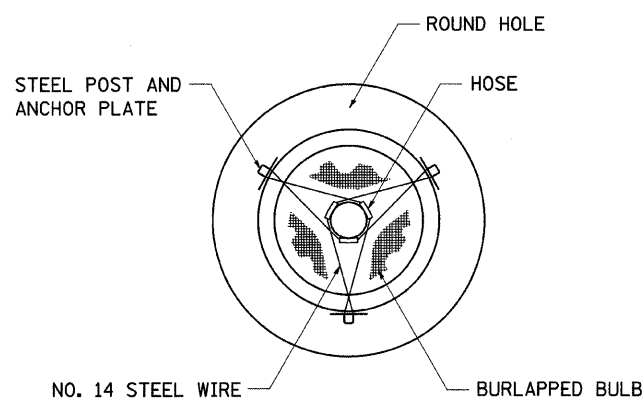
PLOT DATE = Fri Dec 28 13:45:38.1 2007
 FILE NAME = c:\p\projects\210705\10705.dwg
 PLOT SCALE = 50.0000
 REFERENCE = SHEET#

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
549	117 T	OGLE	86	71
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

DETAILS OF PLANTING AND BRACING TREES

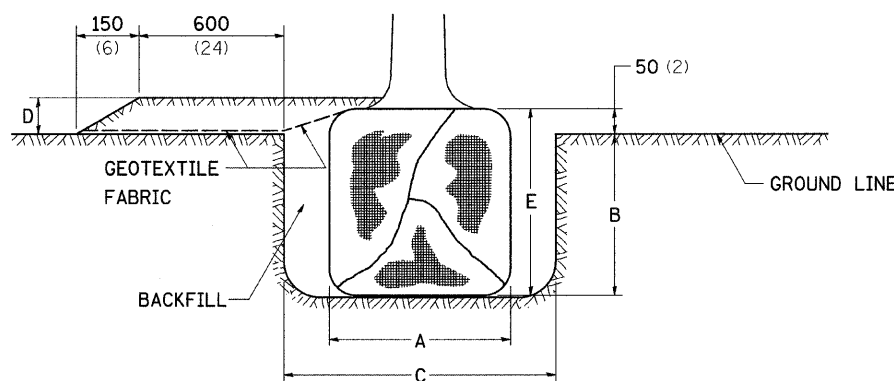


TREES SMALLER THAN 115 (4 1/2) IN DIAMETER

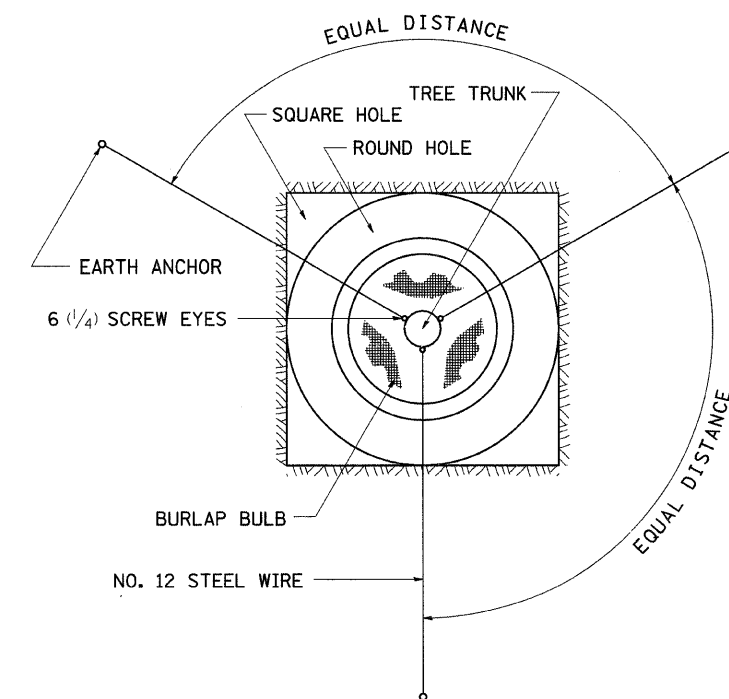


SMALL	A	B	C	D	E	F
TREE SIZE	DIAMETER OF BALL OR ROOT SYS.	DEPTH OF HOLE EXCAVATION	WIDTH OF HOLE EXCAVATION	THICKNESS OF MULCH COVER	DEPTH OF BALL OR ROOT SYS.	VOLUME OF MULCH COVER m ³ (CU. YDS.)
1.5-1.8m (5'-6')	400 (16)	250 (10)	750 (30)	100 (4)	300 (12)	0.41 (0.54)
1.5-1.8m (5'-6') BB	400 (16)	250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

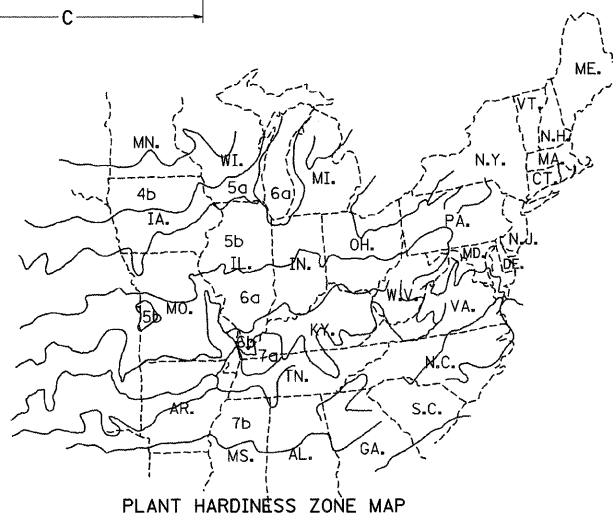
LARGE	A	B	C	D	E	F
TREE SIZE	DIAMETER OF BALL OR ROOT SYS.	DEPTH OF HOLE EXCAVATION	WIDTH OF HOLE EXCAVATION	THICKNESS OF MULCH COVER	DEPTH OF BALL OR ROOT SYS.	VOLUME OF MULCH COVER m ³ (CU. YDS.)
0-50 (0-2)	500 (20)	275 (11)	900 (36)	100 (4)	325 (13)	0.47 (0.61)
50-65 (2-2 1/2) BB	600 (24)	350 (14)	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.

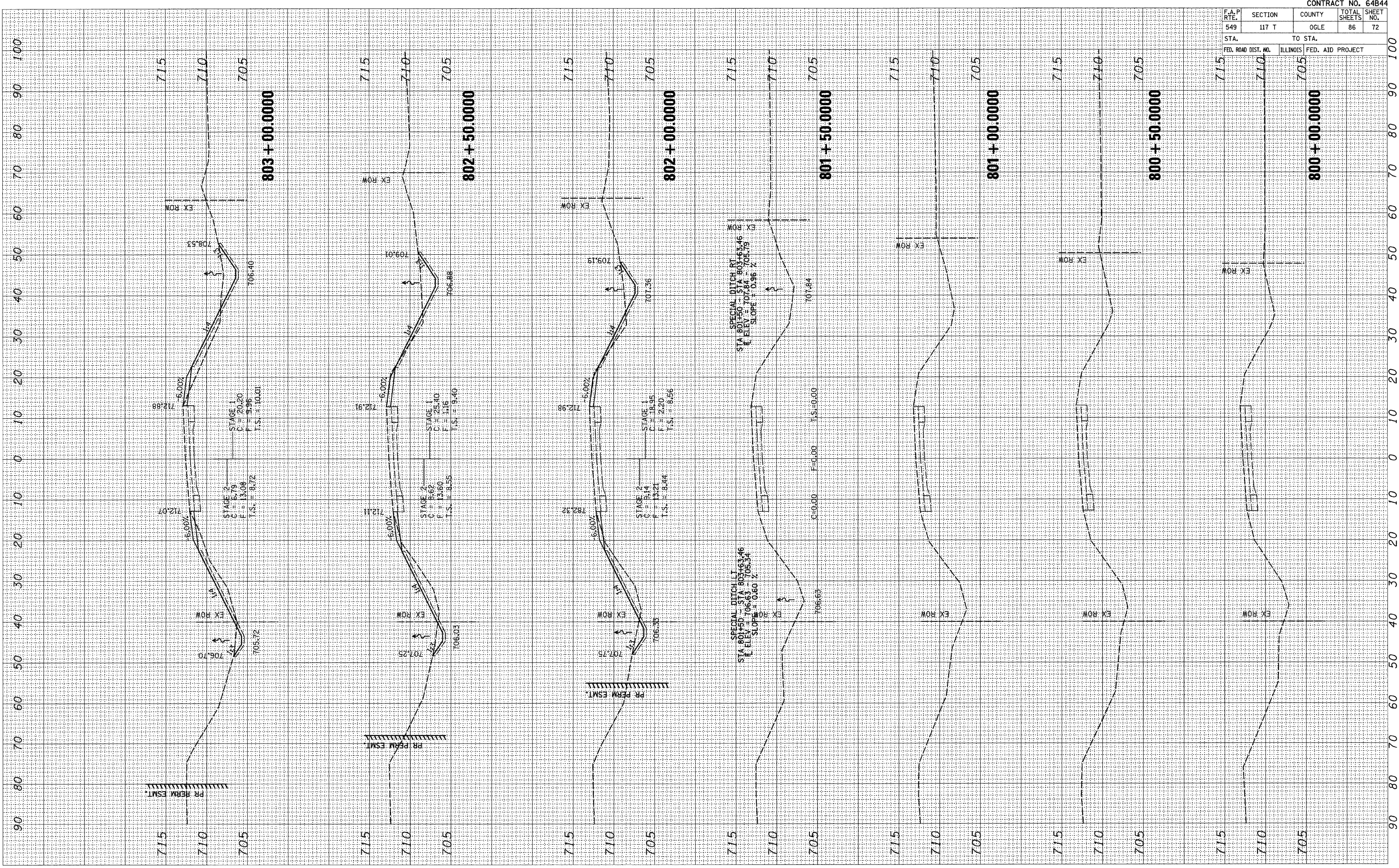


PLANT HARDINESS ZONE MAP
U.S. DEPARTMENT OF AGRICULTURE
AGRICULTURAL RESEARCH SERVICE
PUBLICATION NO. 814

PLOT DATE = Fri Dec 28 13:53:01 2007
FILE NAME = c:\projects\2107065\107065.dgn
PLOT SCALE = 80.0000 / IN.
REFERENCE = #REF#

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

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



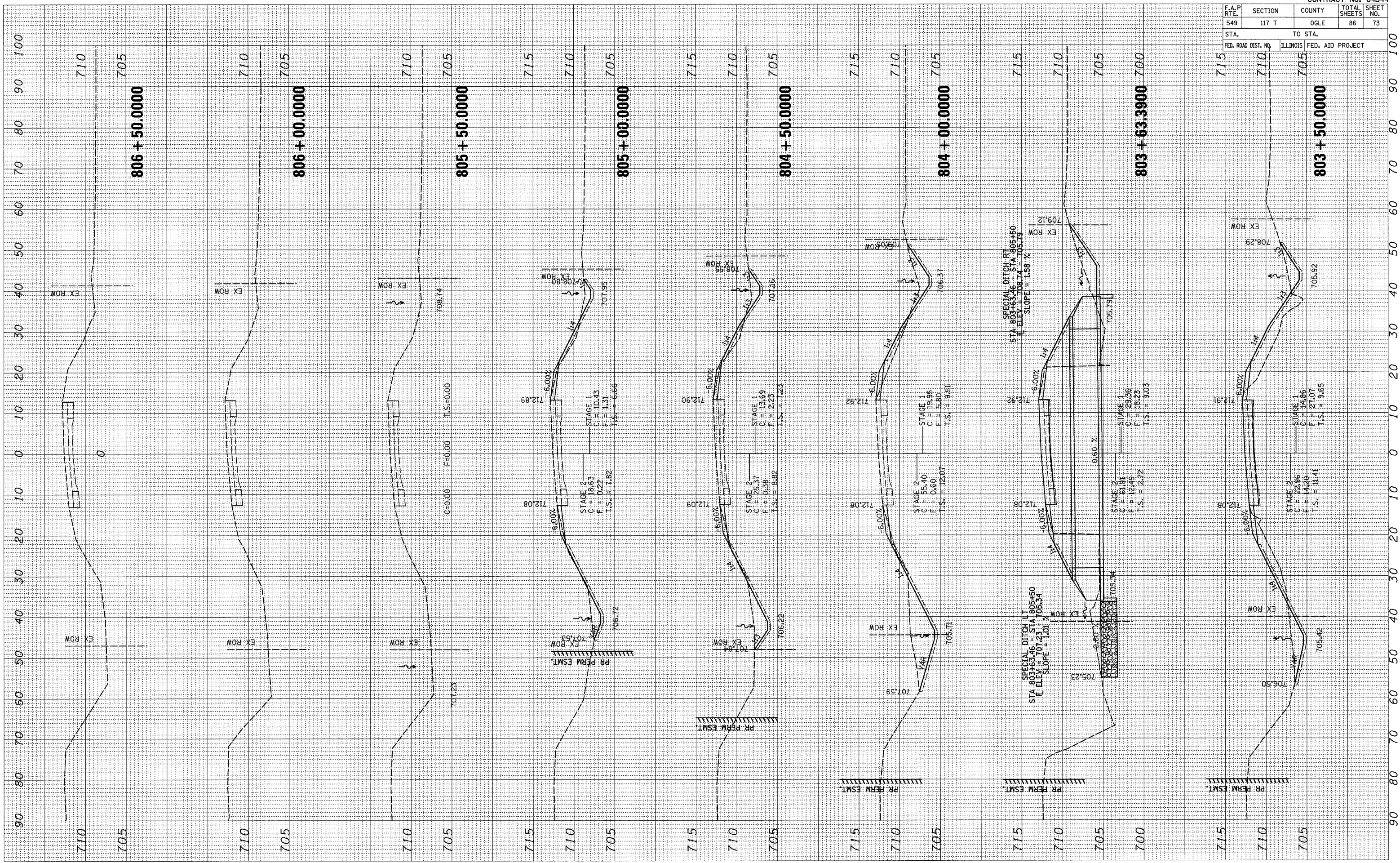
CONTRACT NO. 64B44				
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
549	117 T	OGLE	86	72
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

PLOT DATE = Fri Dec 28 13:53:18 2007
 FILE NAME = c:\pvc\projects\10211705\10211705.dwg
 USER NAME = gaffu

ORIGINAL SURVEYED SURVEYED SURVEYED
 SURVEY PLOTTED PLOTTED PLOTTED
 NOTE BOOK TEMPLATE TEMPLATE TEMPLATE
 NO. AREAS CHECKED AREAS CHECKED AREAS CHECKED

FINAL SURVEYED SURVEYED SURVEYED
 SURVEY PLOTTED PLOTTED PLOTTED
 NOTE BOOK TEMPLATE TEMPLATE TEMPLATE
 NO. AREAS CHECKED AREAS CHECKED AREAS CHECKED

BY: _____ DATE: _____



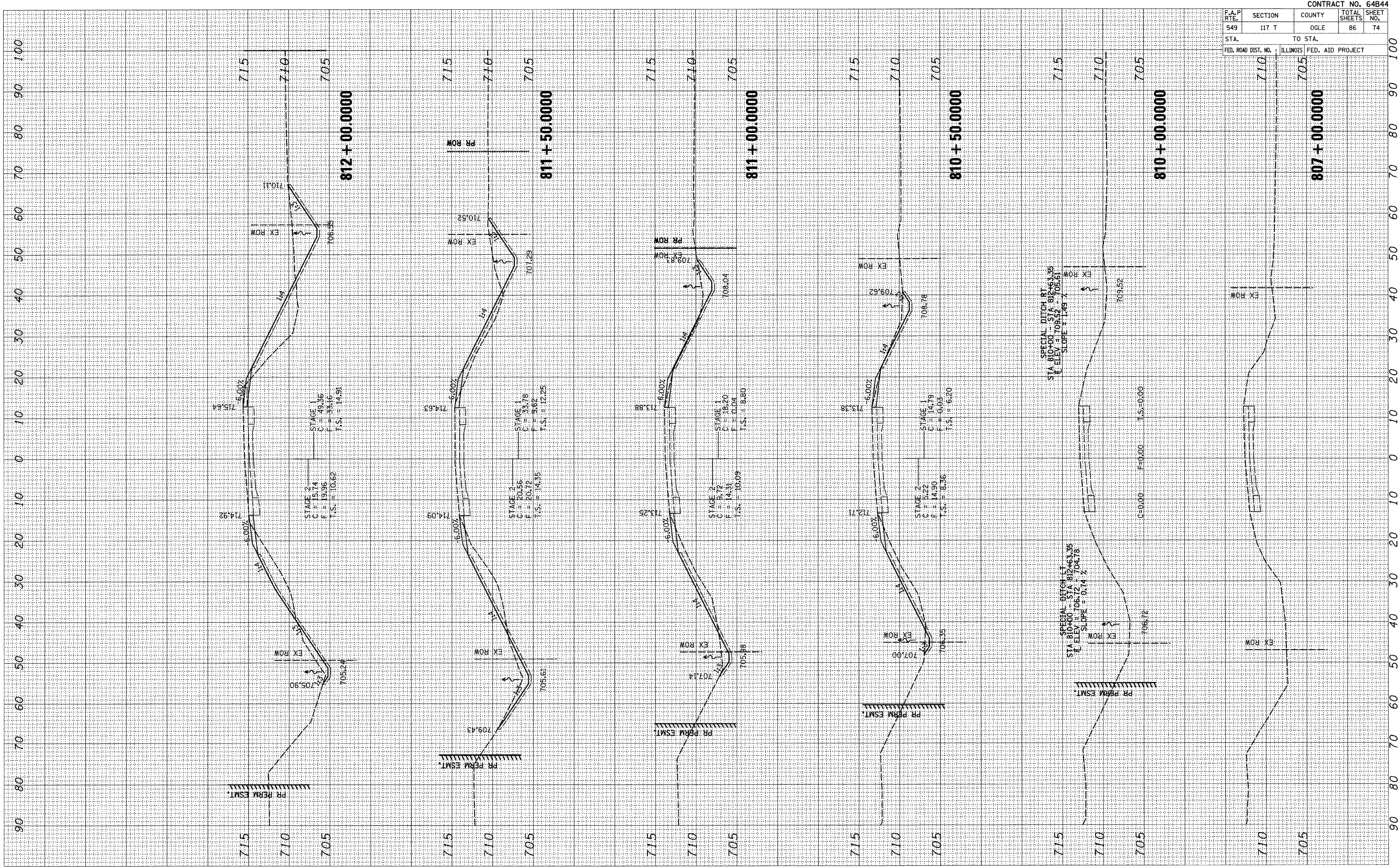
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
549	117 T	OGLE	86	73

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

PLOT DATE = Fri Dec 28 13:53:18 2007
 FILE NAME = c:\projects\17218765\17218765.dwg
 USER NAME = gertj

ORIGINAL SURVEY	DATE
SURVEYED	
PLOTTED	
NOTE BOOK	
AREAS CHECKED	

FINAL SURVEY	DATE
SURVEYED	
PLOTTED	
NOTE BOOK	
AREAS CHECKED	



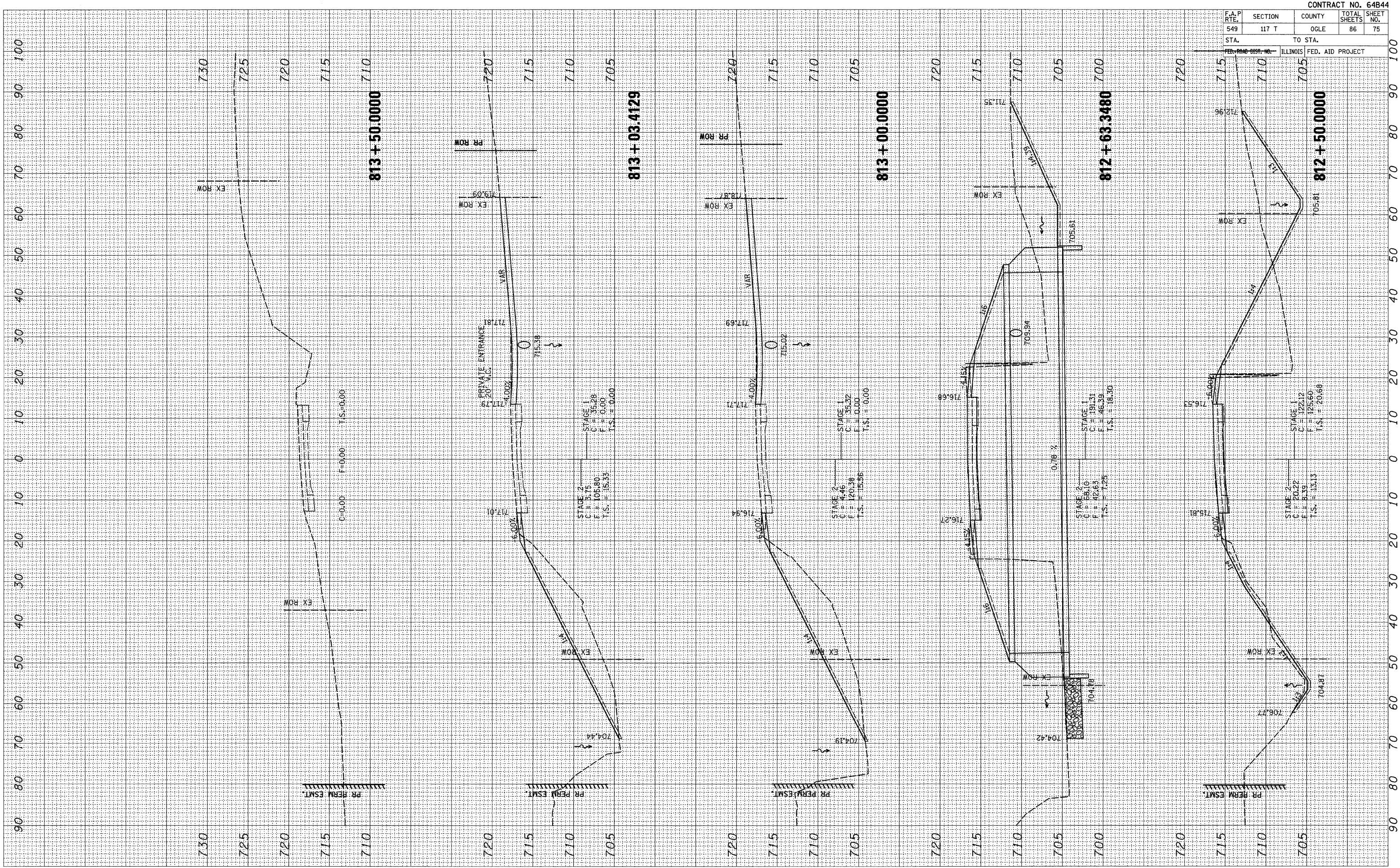
CONTRACT NO. 64B44				
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
549	117 T	OGLE	86	74
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		
	710	705		
		807+00.0000		

PLOT DATE = Fri Dec 28 13:53:18 2007
 USER = gaffj
 USER NAME = gaffj

ORIGINAL SURVEY PLOTTED TEMPLATE AREAS CHECKED

FINAL SURVEY PLOTTED TEMPLATE AREAS CHECKED

BY: _____ DATE: _____



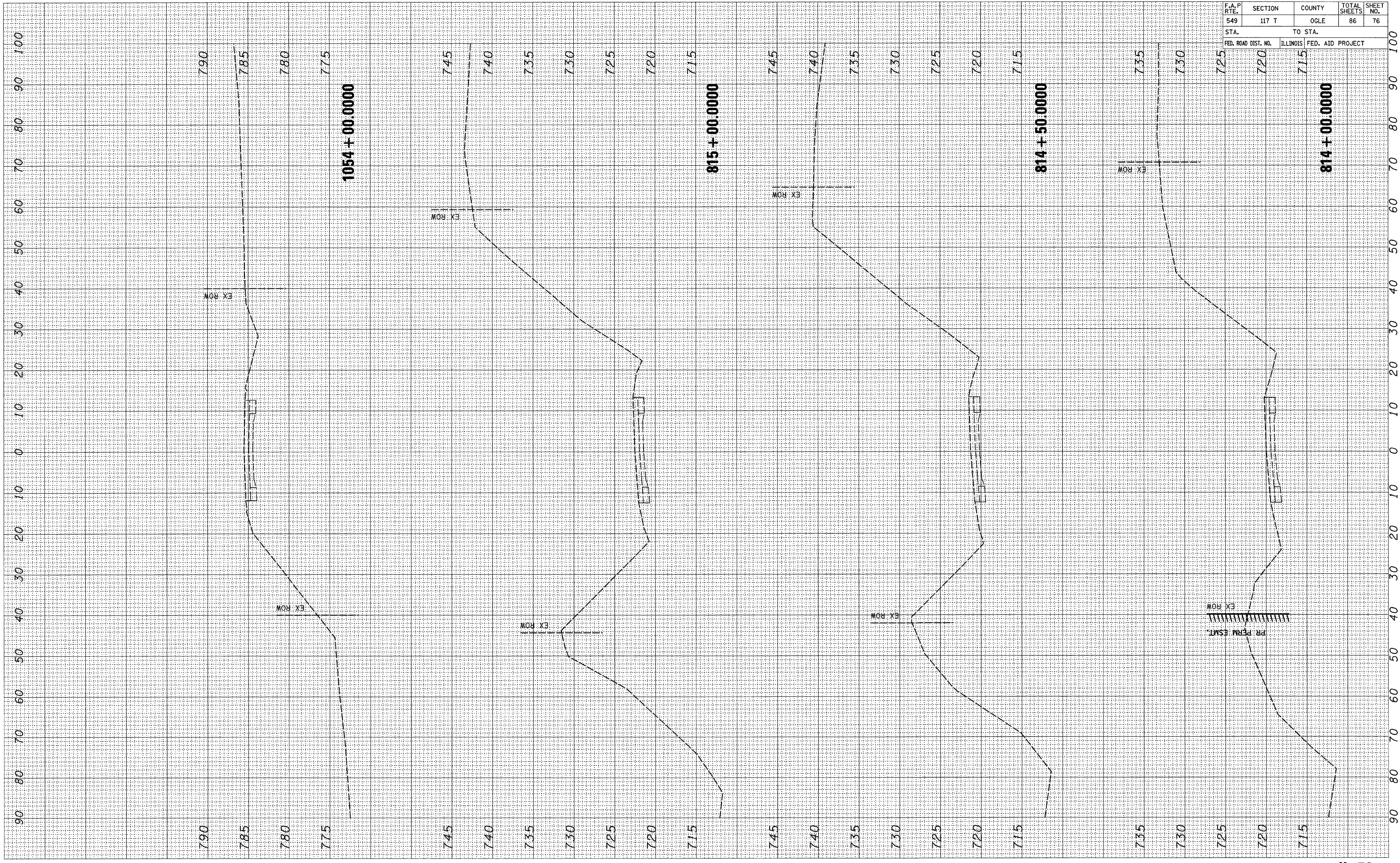
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
549	117 T	OGLE	86	75
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS		FED. AID PROJECT

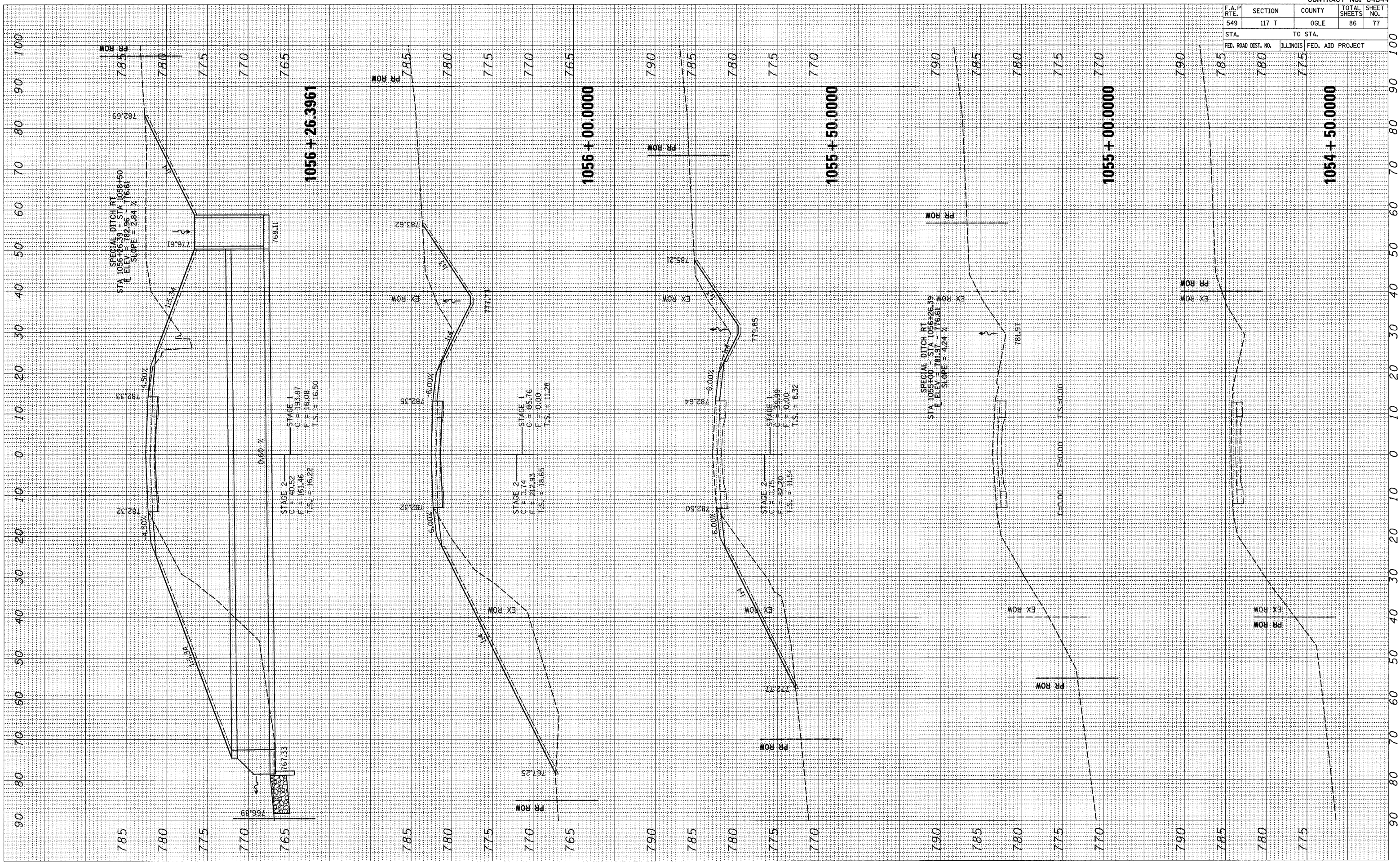
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
549	117 T	OGLE	86	76
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	

FINI	BY	DATE

ORIGINAL SURVEY	BY	DATE

PLOT DATE = Fri, Dec 28 13:53:18 2007
 FILE NAME = c:\projects\1210705.dwg
 USER NAME = gorfjt



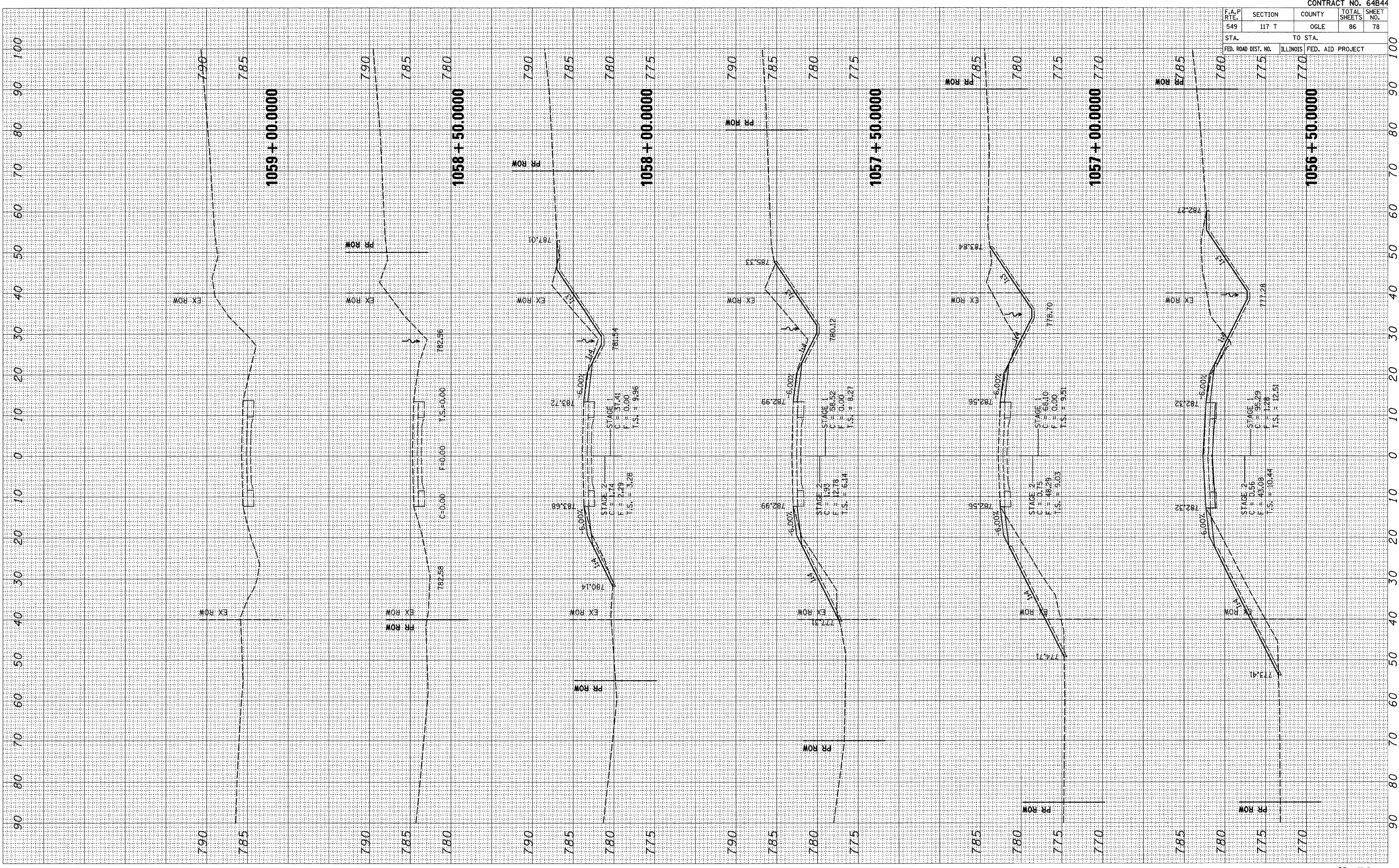


F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
549	117 T	OGLE	86	77
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

PLOT DATE = Fri Dec 28 13:53:45 2007
 FILE NAME = c:\work\mss\10519765\10519765.dgn
 USER NAME = gcrfj

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

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

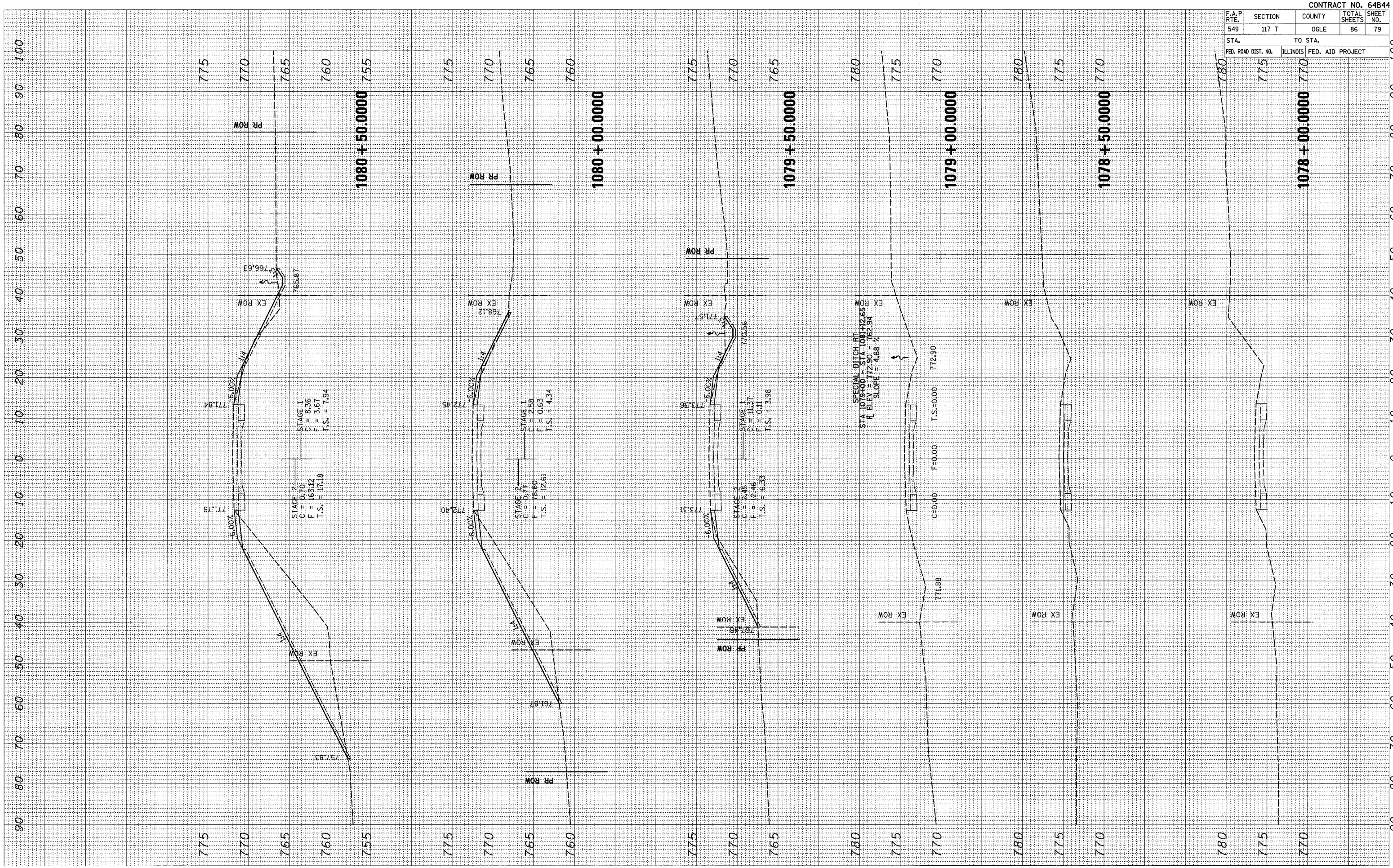


F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
549	117 T	OGLE	86	78
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	

PLOT DATE = Fri Dec 28 13:53:19 2007
 FILE NAME = s:\work\6655\1078\1078.dwg
 USER NAME = gpfj,j

ORIGINAL SURVEYED SURVEYED
 SHEET PLOTTED PLOTTED
 NOTE BOOK NO. NO.
 AREAS CHECKED AREAS CHECKED

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



F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
549	117 T	OGLE	86	79

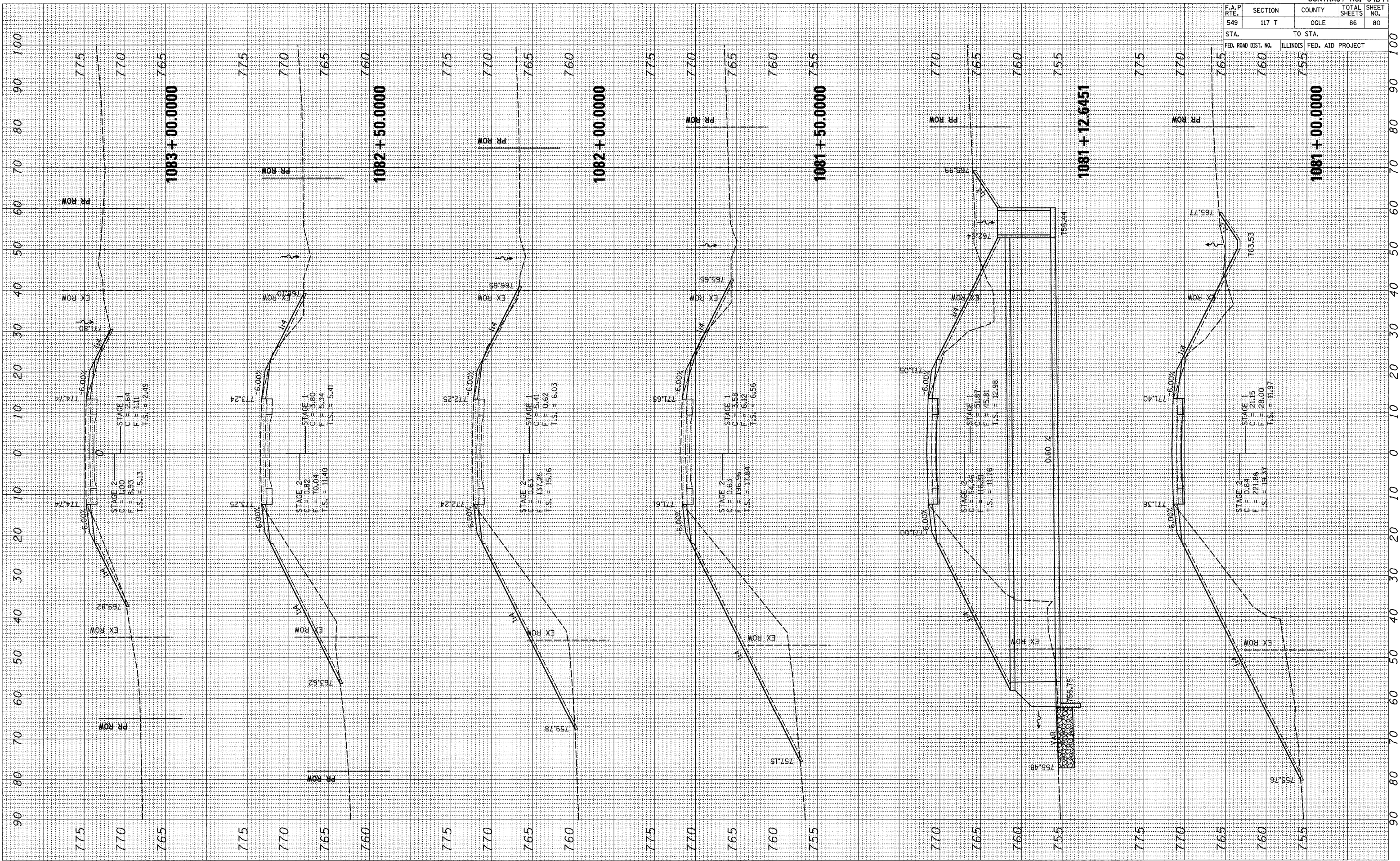
STA.	TO STA.
FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT

PLOT DATE = Fri Dec 28 13:53:19 2007
 FILE NAME = g:\projects\1240705\1240705.dwg
 USER NAME = gorfj

ORIGINAL SURVEYED PLOTTED TEMPLATE NOTE BOOK AREAS CHECKED

FINAL SURVEYED PLOTTED TEMPLATE NOTE BOOK AREAS CHECKED

BY: _____ DATE: _____

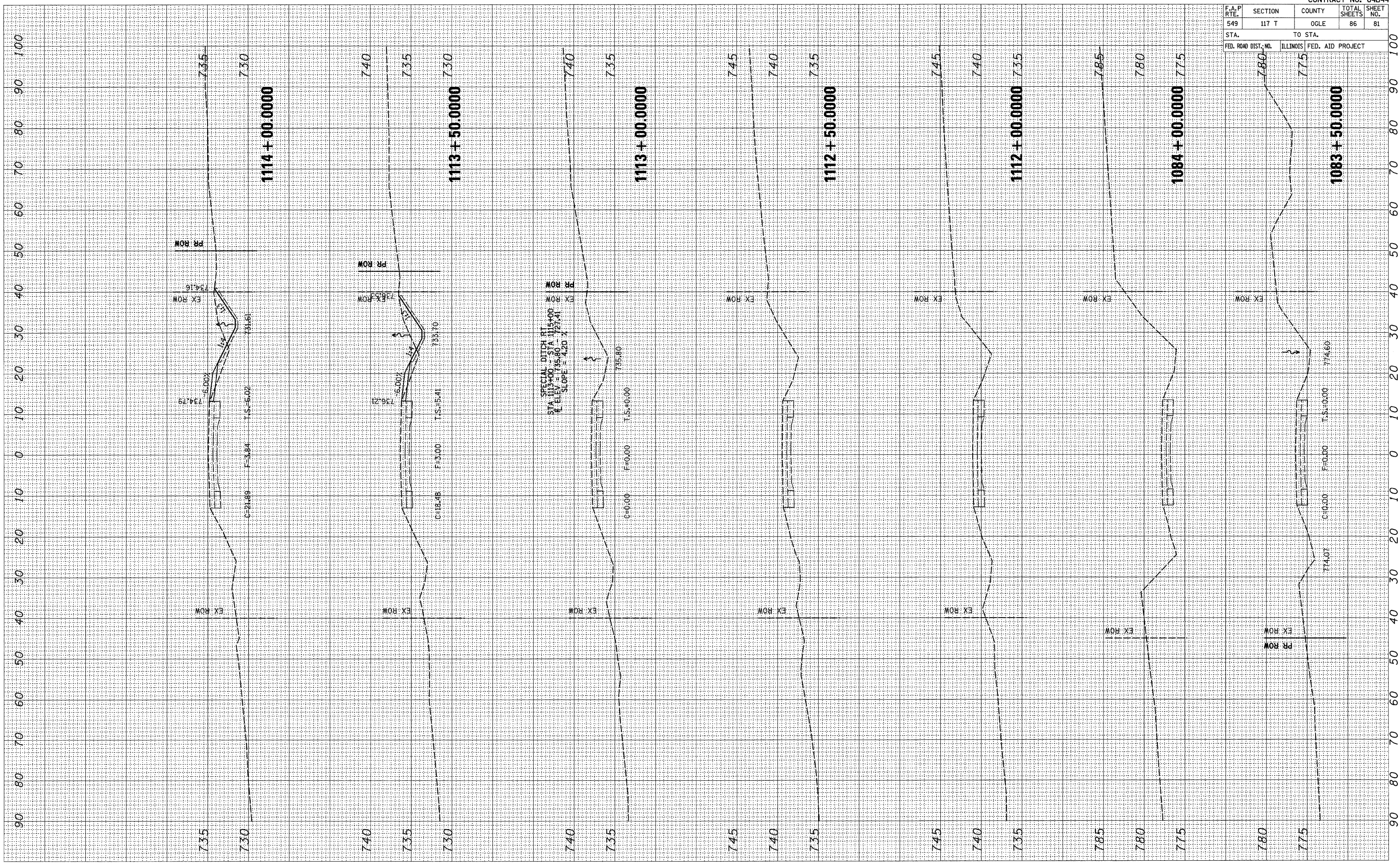


F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
549	117 T	OGLE	86	80
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

PLOT DATE = Fri Dec 28 13:53:28 2007
 FILE NAME = c:\pvc\pvc\sp217795\dl07795mm.dgn
 USER NAME = gaffj

ORIGINAL SURVEY	BY	DATE
SURVEYED		
PLOTTED		
TEMPLATE		
NOTE BOOK		
AREAS CHECKED		

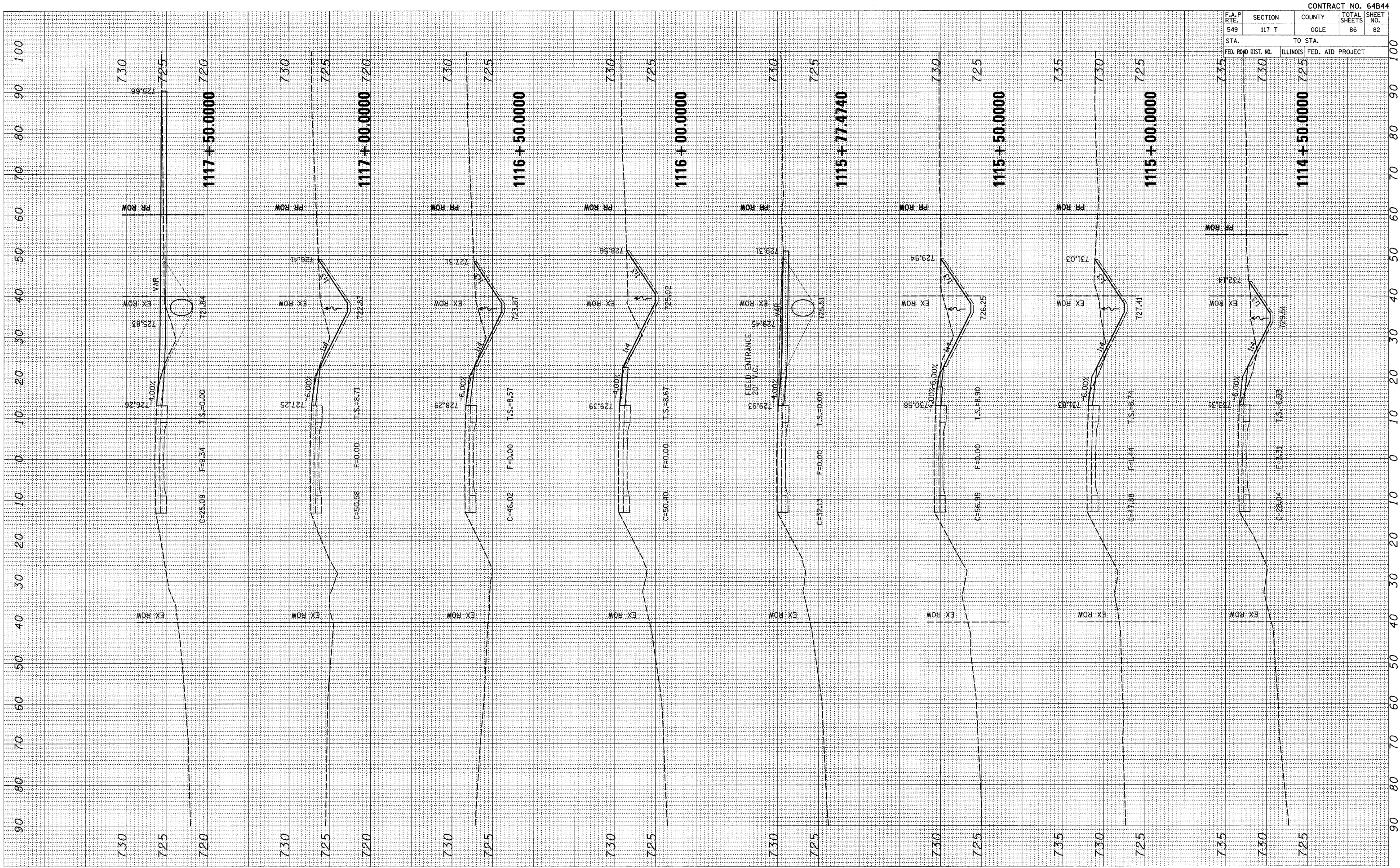
FINAL SURVEY	BY	DATE
SURVEYED		
PLOTTED		
TEMPLATE		
NOTE BOOK		
AREAS CHECKED		



F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
549	117 T	OGLE	86	81
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

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

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



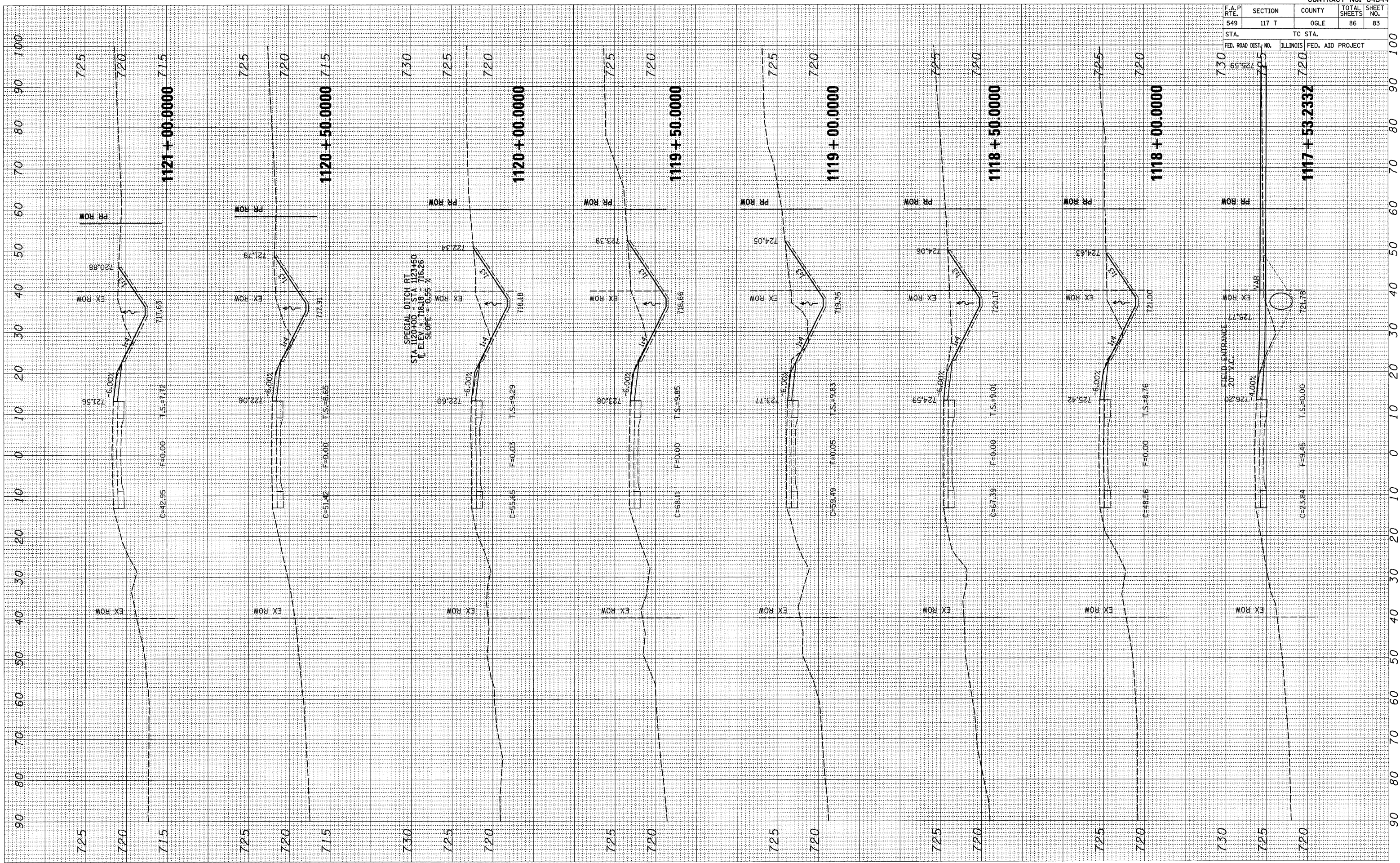
CONTRACT NO. 64B44				
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
549	117 T	OGLE	86	82
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

PLOT DATE = Fri Dec 28 13:53:28 2007
 FILE NAME = c:\projects\121705\121705.dgn
 USER NAME = gaffj

ORIGINAL SURVEYED
 SURVEY PLOTTED
 NOTE BOOK TEMPLATE
 AREAS CHECKED

FINAL SURVEYED
 SURVEY PLOTTED
 NOTE BOOK TEMPLATE
 AREAS CHECKED

BY _____ DATE _____



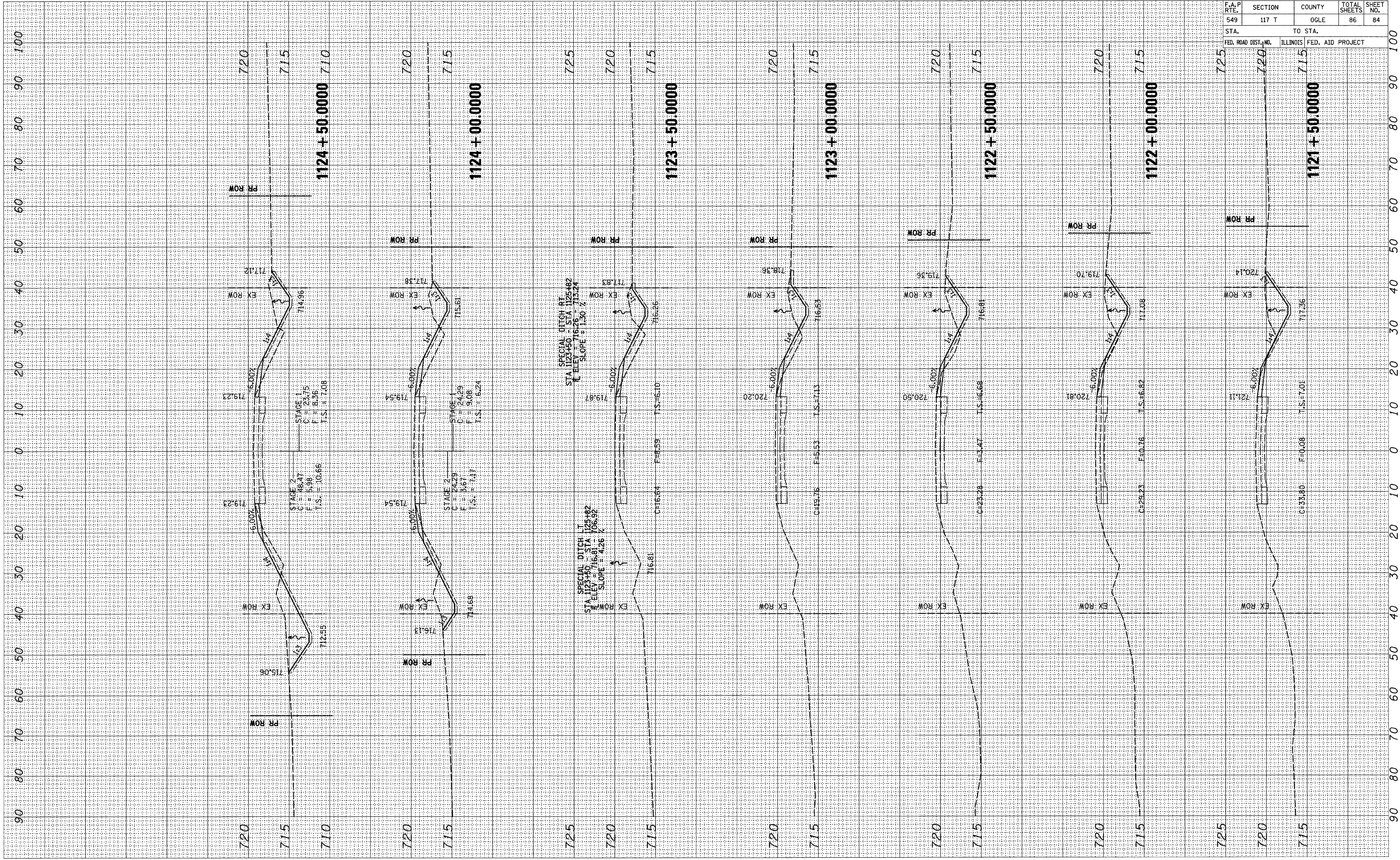
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
549	117 T	OGLE	86	83
STA. 1117+53.2332		TO STA. 1121+00.0000		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

PLOT DATE = Fri Dec 28 13:53:28 2007
 PLOT SCALE = 1/4" = 100'-0"
 USER NAME = gmf/jj

ORIGINAL SURVEYED PLOTTED
 SURVEYED PLOTTED
 NOTE BOOK NO. _____
 AREAS CHECKED

FINAL SURVEYED PLOTTED
 SURVEYED PLOTTED
 NOTE BOOK NO. _____
 AREAS CHECKED

BY _____ DATE _____



CONTRACT NO. 64B44

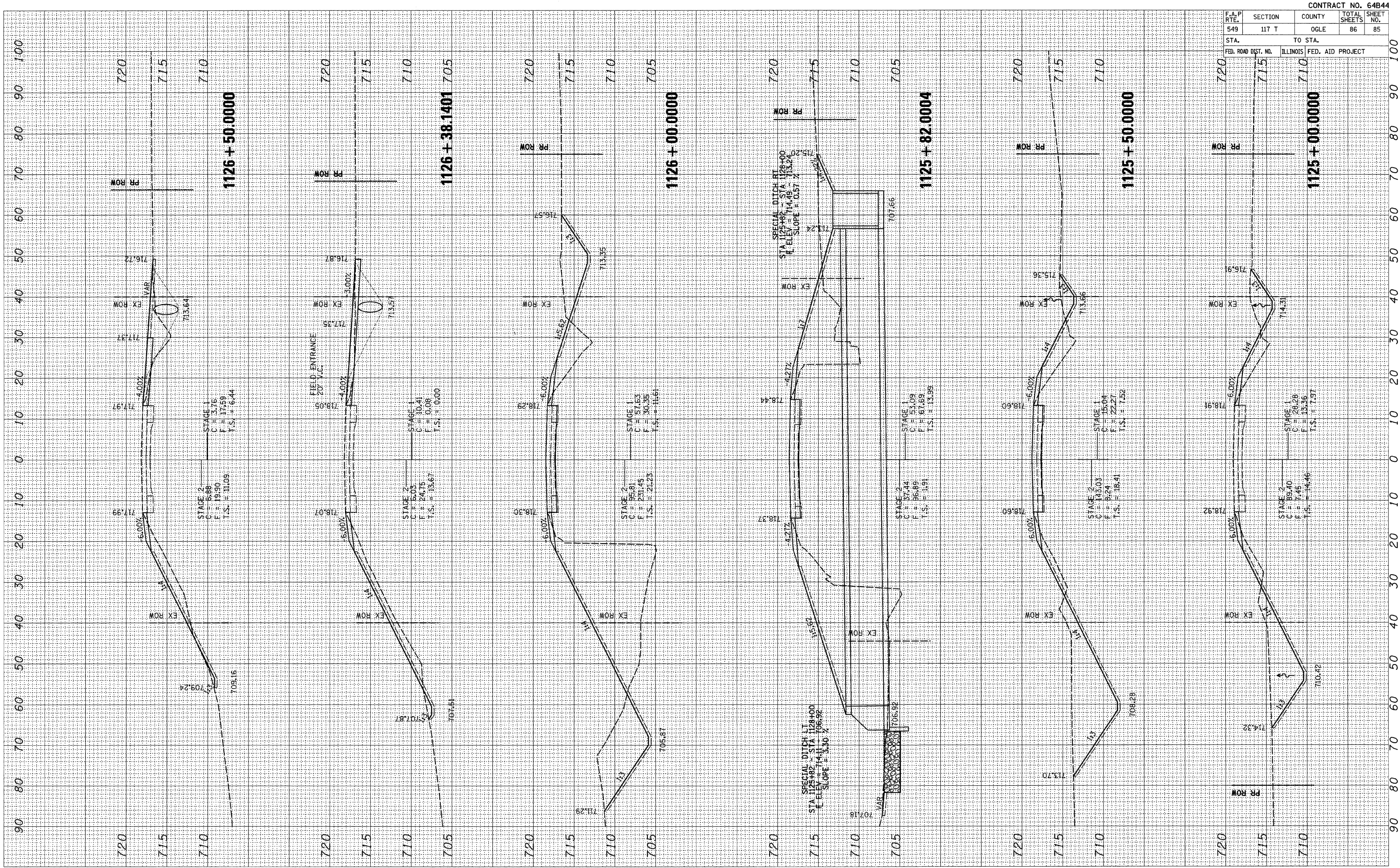
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
549	117 T	OGLE	86	84

STA.	TO STA.	FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT
715	725			

PLOT DATE = Fri Dec 28 13:53:21 2007
 PLOT SCALE = 1/8" = 100'
 USER NAME = g9f1j

ORIGINAL SURVEYED	BY	DATE
SHEET PLOTTED		
NOTE BOOK		
AREAS CHECKED		

FINAL SURVEYED	BY	DATE
SHEET PLOTTED		
NOTE BOOK		
AREAS CHECKED		

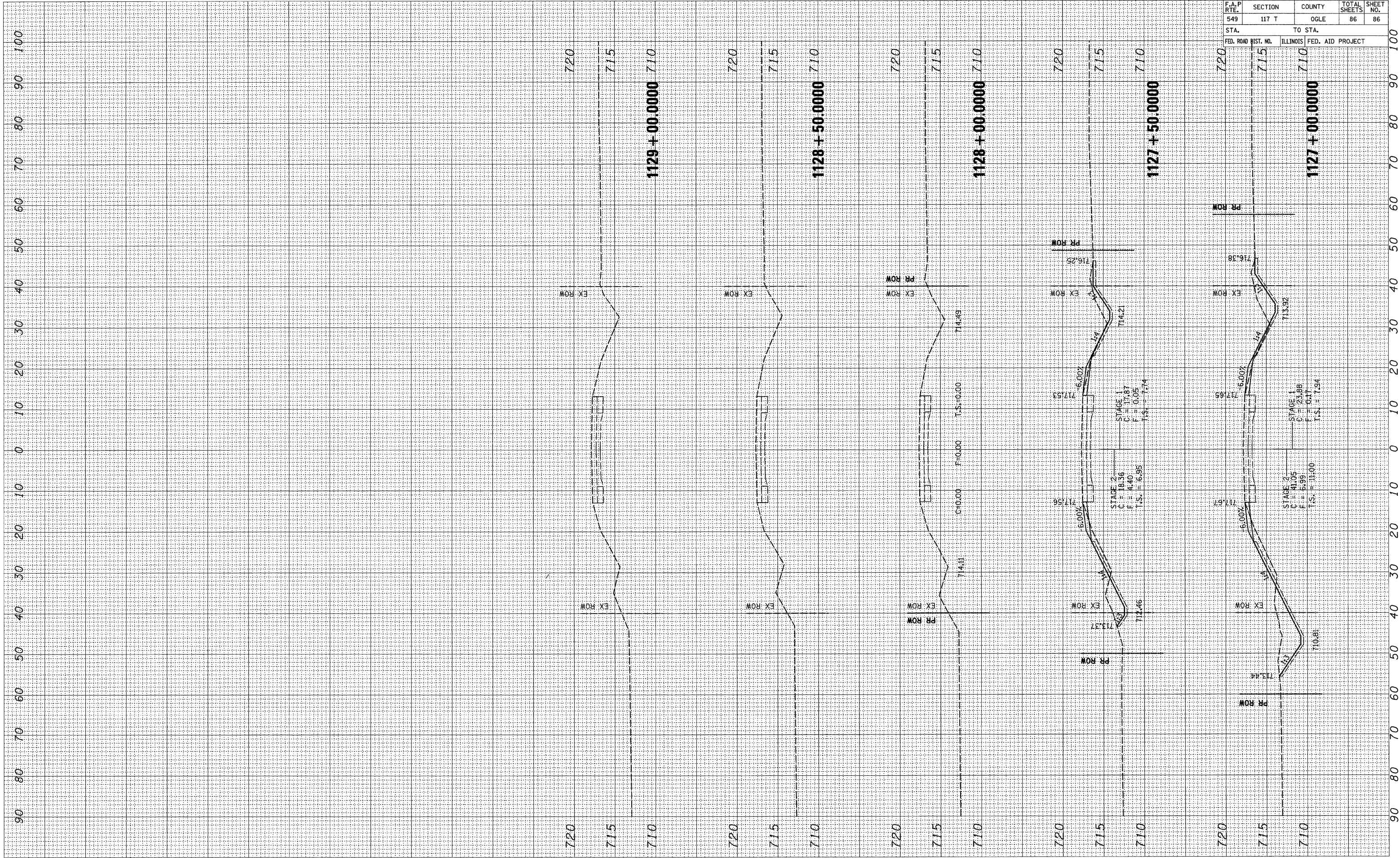


F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
549	117 T	OGLE	86	85
STA.	TO STA.		ILLINOIS FED. AID PROJECT	

PLOT DATE = Fri Dec 28 13:53:21 2007
 FILE NAME = c:\pvc\pvc\1127\1127.dwg
 USER NAME = gaffj

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

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



F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
549	117 T	OGLE	86	86
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		