CONTRACT NO. 64B89

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
654	109M	CARROLL	76	1

PROJECT ENGINEER: MASOOD AHMAD

SQUAD ENGINEER: AHMAD EL-AHMAD (815)-284-5944

3-7-08 Letting, Item 049

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

PROPOSED HIGHWAY PLANS

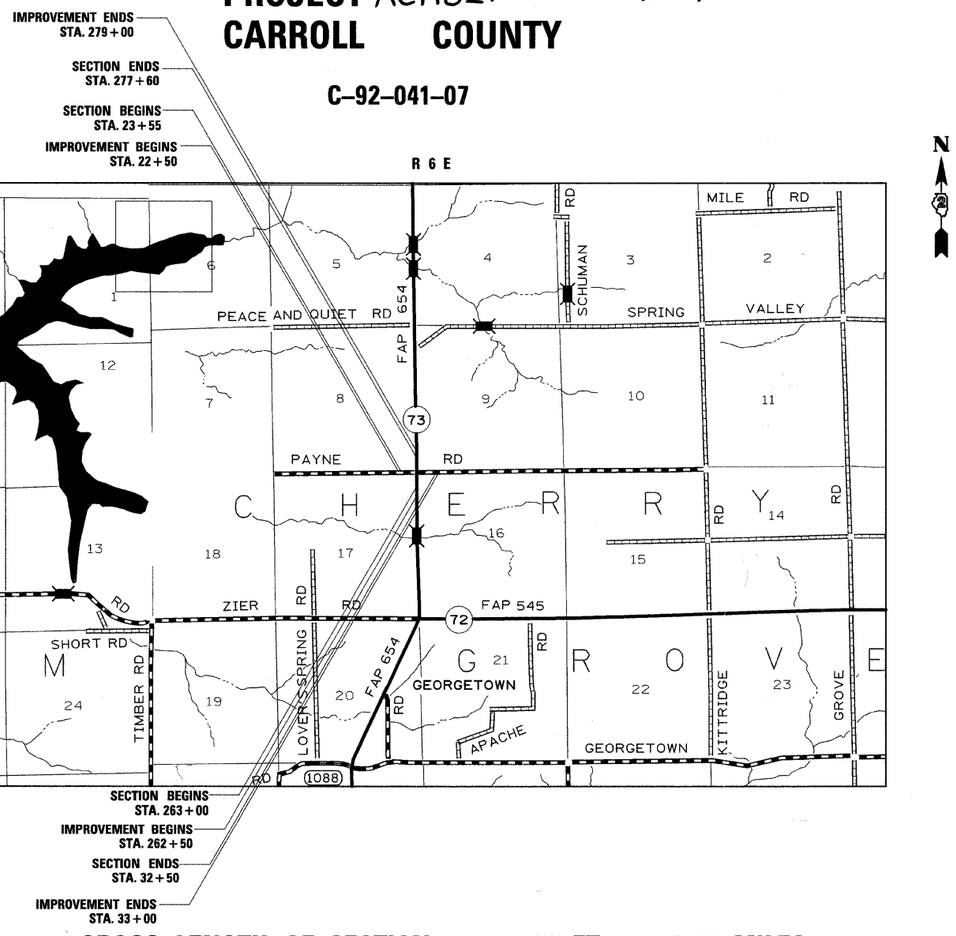
FAP ROUTE 654 (IL 73)
SECTION 109M
PROJECT ACHSIP-0654(017)
CARROLL COUNTY

C-92-041-07

FOR INDEX OF SHEETS, SEE SHEET NO. 2

DESIGN DESIGNATION

CARROLL COUNTY: MINOR ARTERIAL NON-URBAN-40



GROSS LENGTH OF SECTION = 1460 FT = 0.28 MILES
NET LENGTH OF SECTION = 1460 FT = 0.28 MILES

D-92-009-06

LOCATION OF SECTION INDICATED THUS: –

100' 200' 300' — 1" = 100'
10' 20' 30' — 1" = 10'
50' 100' — 1" = 50'
50' 100' — 1" = 40'
50' 100' — 1" = 30'
50' 100' — 1" = 20'

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

CHERRY GROVE TOWNSHIP
SECTIONS 8, 9, 16, AND 17

CONTRACT NO. 64B89

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

SUBMITTED 12/14 2007

George F. B.
DEPUTY DIRECTOR OF HIGHWAYS, REGION ENGINEER

February 1, 2008

Eric E. Harm (P.E.)
Interim ENGINEER OF DESIGN AND ENVIRONMENT

February 1, 2008

Christine M. Reed (P.E.)
DIRECTOR OF HIGHWAYS, CHIEF ENGINEER

PRINTED BY THE AUTHORITY OF THE STATE OF ILLINOIS

DISTRICT 2, DIXON

CONTRACT NO. 64B89

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
654	109M	CARROLL	76	2
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

INDEX OF SHEETS

GENERAL NOTES

ROUTE NO.	SEC.	COUNTY	TOTAL SHEETS	SHEET NO.
FAP 654 (IL 73)	109M	Carroll	76	3
FED ROAD DIST. NO.	ILLINOIS	PROJECT		
Contract #64B89				

See cross sections for special ditches and backslopes.

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

It is estimated that 758 cubic yards of earth will be hauled to the job from outside the project limits. A shrinkage factor of 25% has been used.

All Borrow/Waste/Use sites must be approved by the Department prior to removing any material from the project or initiating any earthmoving activities, including temporary stockpiling outside the limits of construction.

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

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.

The subgrade on this project, exclusive of rock cut areas is scheduled to be improved to a 300 mm (12") depth according to Mechanistic Pavement Design. The areas scheduled to be improved to a depth greater than 300 mm (12") are estimated based on the original geotechnical investigation. The subgrade shall be processed in accordance with Article 301.03 of the Standard Specifications before the engineer shall determine the limits and the additional thickness of improvement required, if any. Any additional undercutting required after this evaluation shall be paid for as EARTH EXCAVATION.

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 embankment constructed of cohesive soil shall be constructed with not more than 110% of optimum moisture content, determined by the standard proctor test. Cohesive soil shall be defined as any soil which contains greater than 10% particles by weight passing the 75 μm (#200 sieve). The 110% of optimum moisture limit may be waived in free-draining granular material when approved by the Engineer.

Removal of existing 12" CMP at Station 268+22 shall be included in the unit price for REMOVAL OF EXISTING STRUCTURES NO. 1.

The existing hot-mix asphalt surface on private and commercial entrances shall be bladed off or milled and disposed of outside the project limits. The cost of the blading, milling, rolling, and disposal is included in the contract unit price for INCIDENTAL HOT-MIX ASPHALT SURFACING.

The following Mixture Requirements are applicable for this project:

Mixture Uses(s):	Full Depth Pavement Surface	Upper Lift Full Depth Binder	Lower Lift Full Depth Binder	Sideroad Surface and Top Lift Shoulder	Lower Lift Shoulder
PG:	SBS 64-28	SBS 64-28	64-22	58-22	58-22
Design Air Voids	4.0 @ N50	4.0 @ N50	4.0 @ N50	3.0 @ N50	2.0 @ N50
Mixture Composition (Gradation Mixture)	IL 9.5 or 12.5	IL 19.0	IL 19.0	IL 9.5 or 12.5	BAM
Friction Aggregate	D	N/A	N/A	C	N/A
20 Year ESAL	2.0				

The Contractor will be required to furnish 140 mm (5 1/2") high brass stencils as approved by the Engineer and install stationing at 250' intervals. Stationing shall be placed on both lanes of 2-lane highways and on the outside lanes in both directions on 4-lane highways. The stations shall be placed 150 mm (6") inside the pavement marking edge so they can be read from the shoulder. This work will be included in the cost of the final pavement surface.

On full depth pavement, shoulder widths of 1.8 m (6 ft.) or less may be placed, at the Contractor's option, simultaneously with the adjacent traffic lane for both the binder and surface courses, provided the cross slope of both the pavement and shoulder can be satisfactorily obtained. The shoulder will be paid for at the contract unit price per Square Meter (Square Yard) for HOT-MIX ASPHALT SHOULDERS of the thickness specified on the plans.

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 HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N50.

The new number for this structure will be 008-1093.

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 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.

The contractor shall call Kurt Glazier from the Bureau of Operations (815/284-5478) prior to striping IL 73 mainline to check if old NO PASSING ZONE is still warranted due to new roadway profiles.

GENERAL NOTES

ROUTE NO.	SEC.	COUNTY	TOTAL SHEETS	SHEET NO.
FAP 654 (IL 73)	109M	Carroll	76	4
FED ROAD DIST. NO.	ILLINOIS	PROJECT		
Contract #64B89				

The material necessary to backfill the culvert extensions shall be obtained from Grading and Shaping Ditches and shall be included in the contract unit price for PRECAST CONCRETE BOX CULVERT 4' x 2'.

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.

The cost of making sewer connections to existing drainage structures shall be incidental STORM SEWERS CLASS A, TYPE 2, 18".

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

Valve Boxes shall be adjusted to the final grade as shown on the plans. The cost of adjusting Valve Boxes shall not be paid for separately but shall be included in the contract unit price for the various items of work.

The cost of removing existing Storm Sewer during the installation of new storm sewers shall be included in the contract unit price for STORM SEWERS CLASS A, TYPE 2, 18".

Lateral distances from the centerline on all inlets are to the face of the inlet.

The Contractor shall determine flowlines of existing sewer lines. This information is necessary before ordering inlets and manholes.

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 each headwall or end section of AR Culverts. This work will be paid for at the contract unit price each for DELINEATORS.

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

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

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

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

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

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.

Any subcontractor chosen to do underground storage tank removal and/or special or hazardous waste management must be on the State Fire Marshall's currently approved list of qualified contractors to do such work. Prior to any involvement with special or hazardous waste, the prime contractor shall notify the District Environment Unit Hazardous Waste Coordinator who this designated sub-contractor is and furnish five projects this sub-contractor has successfully concluded, including the IEPA incident number. The District will then confirm the successful conclusion of these projects by reviewing the IEPA data base. Only after approval from the District Environment Unit will the sub-contractor be authorized to proceed with any involvement with special/hazardous waste.

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:

Mediacom	Commonwealth Edison Co.
NICOR Gas Co.	Frontier/Citizens

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.

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.

It shall be the Contractor's responsibility to contact the municipality to determine approved methods of utility structure adjustment. Utility structures may include, but are not limited to, manholes, water valves, handholes, etc. All materials and work necessary to complete adjustments per municipality requirements shall be considered included in the cost of the associated adjustment pay item.

Good Neighbor Policy: The Good Neighbor Policy shall be implemented on the detour route and on the alternate routes on this project. Carroll and Stephenson Counties have indicated that Zier Road, West Sabin Church Road, and Shannon Route are the alternate routes in this project. The quantities in the plans are based on 5% of the total areas of these roads. The length of these roads are indicated in the plans (see Bit. Schedule). These roads shall be resurfaced with 2" HOT-MIX ASPHALT SURFACE COURSE, SPECIAL. Resurfacing of these roads shall be based upon recommendations by both the Department and the Carroll & Stephenson County officials after IL 73/Payne Road intersection is open to traffic. Quantities shall be deducted from the contract plan quantities if not used.

CONTRACT NO. 64B89

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
654	109M	CARROLL	76	5
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

SUMMARY OF QUANTITIES

	CODE NUMBER	ITEM	UNITS	TOTAL QUANTITY	90% FEDERAL 10% STATE I-000
	20100110	TREE REMOVAL (6 TO 15 UNITS DIAMETER)	UNIT	163	163
	20100210	TREE REMOVAL (OVER 15 UNITS DIAMETER)	UNIT	21	21
	20100500	TREE REMOVAL, ACRES	ACRE	0.4	0.4
	20200100	EARTH EXCAVATION	CU YD	20619	20619
	20200200	ROCK EXCAVATION	CU YD	6234	6234
	20400800	FURNISHED EXCAVATION	CU YD	758	758
	21001000	GEOTECHNICAL FABRIC FOR GROUND STABILIZATION	SQ YD	2124	2124
*	21101615	TOPSOIL FURNISH AND PLACE, 4"	SQ YD	21732	21732
*	25000210	SEEDING, CLASS 2A	ACRE	2.4	2.4
*	25000310	SEEDING, CLASS 4	ACRE	2	2
*	25000400	NITROGEN FERTILIZER NUTRIENT	POUND	362	362
*	25000500	PHOSPHORUS FERTILIZER NUTRIENT	POUND	362	362
*	25000600	POTASSIUM FERTILIZER NUTRIENT	POUND	362	362
■	25000750	MOWING	ACRE	2.4	2.4
*	25100630	EROSION CONTROL BLANKET	SQ YD	2682	2682
	25000250	TEMPORARY EROSION CONTROL SEEDING	POUND	2003	2003
	28000300	TEMPORARY DITCH CHECKS	EACH	124	124
	28000400	PERIMETER EROSION BARRIER	FOOT	1352	1352
	28000500	INLET AND PIPE PROTECTION	EACH	8	8
*	28000720	MULCH, METHOD 2	ACRE	4.4	4.4
	28100107	STONE RIPRAP, CLASS A4	SQ YD	44	44
	28200200	FILTER FABRIC	SQ YD	44	44
	31100910	SUB-BASE GRANULAR MATERIAL, TYPE A 12"	SQ YD	6494	6494
	31100935	SUB-BASE GRANULAR MATERIAL, TYPE A 18"	SQ YD	1493	1493
	35101400	AGGREGATE BASE COURSE, TYPE B	TON	359	359
	40600982	HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT	SQ YD	196	196
	40600990	TEMPORARY RAMP	SQ YD	122	122
	40603310	HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N50	TON	145	145
	40603335	HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N50	TON	664	664
	40701891	HOT-MIX ASPHALT PAVEMENT (FULL-DEPTH), 10 1/2"	SQ YD	5929	5929

■ 100% STATE

*SPECIALTY ITEM

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CONTRACT NO. 64B89

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
654	109M	CARROLL	76	6
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

SUMMARY OF QUANTITIES

CODE NUMBER	ITEM	UNITS	TOTAL QUANTITY	90% FEDERAL 10% STATE I-000
40702700	FURNISH PROFILOGRAPH	L SUM	1	1
40800050	INCIDENTAL HOT-MIX ASPHALT SURFACING	TON	677	677
42300300	PORTLAND CEMENT CONCRETE DRIVEWAY PAVEMENT, 7 INCH	SQ YD	128	128
44000100	PAVEMENT REMOVAL	SQ YD	4340	4340
44000400	GUTTER REMOVAL	FOOT	188	188
44004300	PAVEMENT BREAKING	SQ YD	1589	1589
44200071	PAVEMENT PATCHING, TYPE IV, 6 INCH	SQ YD	71	71
48101200	AGGREGATE SHOULDERS, TYPE B	TON	1148	1148
48203021	HOT-MIX ASPHALT SHOULDERS, 6"	SQ YD	1298	1298
50100300	REMOVAL OF EXISTING STRUCTURE NO.1	EACH	1	1
50105200	REMOVE EXISTING CULVERTS	EACH	1	1
50800105	REINFORCEMENT BARS	POUND	63	63
54001001	BOX CULVERT END SECTION, CULVERT NO.1	EACH	1	1
54002020	EXPANSION BOLTS 3/4 INCH	EACH	12	12
54010402	PRECAST CONCRETE BOX CULVERT 4' X 2'	FOOT	4	4
54010606	PRECAST CONCRETE BOX CULVERT 6' X 6'	FOOT	141	141
542D1060	PIPE CULVERTS, CLASS D, TYPE 2, 15"	FOOT	133	133
54208635	PIPE CULVERTS, TYPE 2, CORRUGATED STEEL, EQUIVALENT ROUND-SIZE 30"	FOOT	14.5	14.5
54210309	PIPE CULVERTS, TYPE 2, REINFORCED CONCRETE - ARCH, EQUIVALENT ROUND-SIZE 24"	FOOT	47	47
54213450	END SECTIONS 15"	EACH	6	6
54213663	PRECAST REINFORCED CONCRETE FLARED END SECTIONS 18"	EACH	1	1
54213669	PRECAST REINFORCED CONCRETE FLARED END SECTIONS 24"	EACH	1	1
54214299	END SECTIONS, EQUIVALENT ROUND-SIZE 24"	EACH	2	2
54214305	END SECTIONS, EQUIVALENT ROUND-SIZE 30"	EACH	2	2
54248510	CONCRETE COLLAR	CU YD	1	1
550A0380	STORM SEWERS, CLASS A, TYPE 2 18"	FOOT	168	168
60242400	INLETS, SPECIAL	EACH	1	1
60242801	INLETS, SPECIAL, NO. 5	EACH	1	1
60500050	REMOVING CATCH BASINS	EACH	1	1
60605000	COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.24	FOOT	190	190

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CONTRACT NO. 64B89

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
654	109M	CARROLL	76	7
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

SUMMARY OF QUANTITIES

CODE NUMBER	ITEM	UNITS	TOTAL QUANTITY	90% FEDERAL 10% STATE I-000
63200310	GUARDRAIL REMOVAL	FOOT	450	450
63500105	DELINEATORS	EACH	9	9
66500105	WOVEN WIRE FENCE, 4'	FOOT	1044	1044
66501800	WOVEN WIRE GATES, 4' X 20' DOUBLE	EACH	1	1
66600105	FURNISHING AND ERECTING RIGHT-OF-WAY MARKERS	EACH	56	56
66700305	PERMANENT SURVEY MARKERS, TYPE II	EACH	2	2
66900200	NON-SPECIAL WASTE DISPOSAL	CU YD	50	50
66900205	SPECIAL WASTE DISPOSAL	CU YD	50	50
67000400	ENGINEER'S FIELD OFFICE, TYPE A	CAL MO	5	5
67100100	MOBILIZATION	L SUM	1	1
67201100	SEALING ABANDONED MONITORING WELLS	EACH	2	2
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	4	4
70300100	SHORT-TERM PAVEMENT MARKING	FOOT	6917	6917
70301000	WORK ZONE PAVEMENT MARKING REMOVAL	SQ FT	2283	2283
* 78001110	PAINT PAVEMENT MARKING - LINE 4"	FOOT	20771	20771
* 78001150	PAINT PAVEMENT MARKING - LINE 12"	FOOT	50	50
* 78004280	PREFORMED PLASTIC PAVEMENT MARKING, TYPE B - INLAID - LINE 24"	FOOT	102	102
* A2002914	TREE, CELTIS OCCIDENTALIS (COMMON HACKBERRY), 1-3/4" CALIPER, BALLED AND BURLAPPED	EACH	10	10
* A2006714	TREE, QUERCUS MACROCARPA (BUR OAK), 1-3/4" CALIPER, BALLED AND BURLAPPED	EACH	10	10
* B2000562	TREE, AMELANCHIER CANADENSIS (SHADBLOW SERVICEBERRY), 4' HEIGHT, SHRUB FORM, BALLED AND BURLAPPED	EACH	15	15
X0323455	ADJUST MONITORING WELLS	EACH	4	4
X7013015	TRAFFIC CONTROL FOR ROAD CLOSURE	L SUM	1	1
X0323660	DROP BOX NO.1	EACH	1	1
X3205519	DRAIN FOR AGGREGATE BASE COURSE	SQ YD	15	15
Z0005400	BREAKER-RUN CRUSHED STONE	TON	964	964
Z0013798	CONSTRUCTION LAYOUT	L SUM	1	1
Z0020900	ESTABLISHING AND REFERENCING LAND SECTION MARKERS	EACH	1	1
X0325911	HOT-MIX ASPHALT SURFACE COURSE, SPECIAL	TON	742	742

*SPECIALTY ITEM

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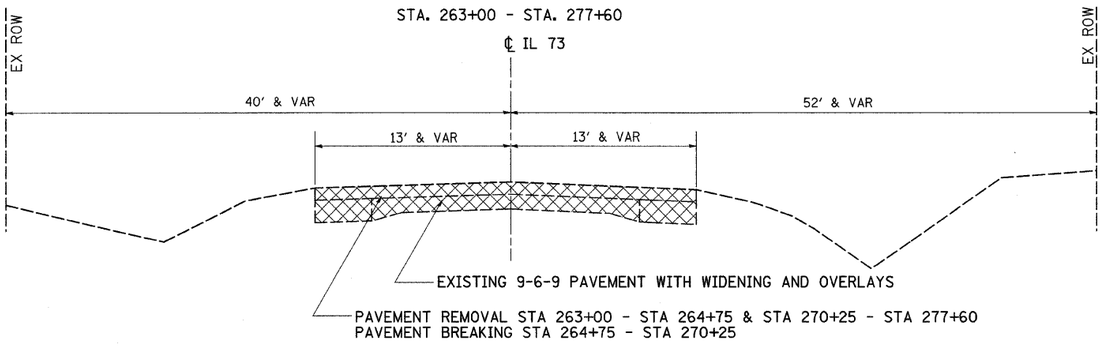
CONTRACT NO. 64B89

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
654	109M	CARROLL	76	8
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

TYPICAL SECTIONS

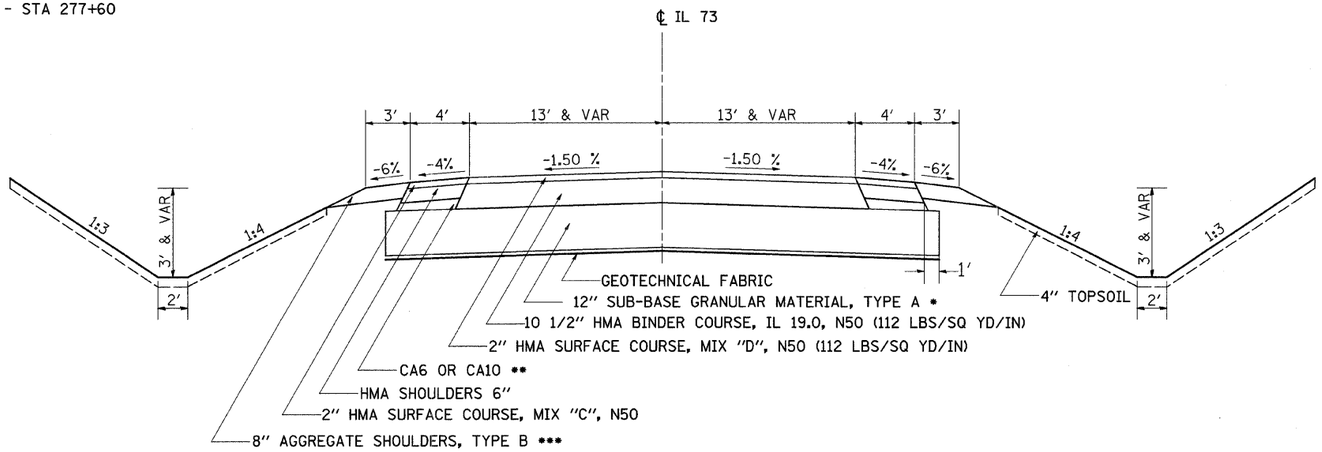
EXISTING IL 73 TYPICAL

STA. 263+00 - STA. 277+60



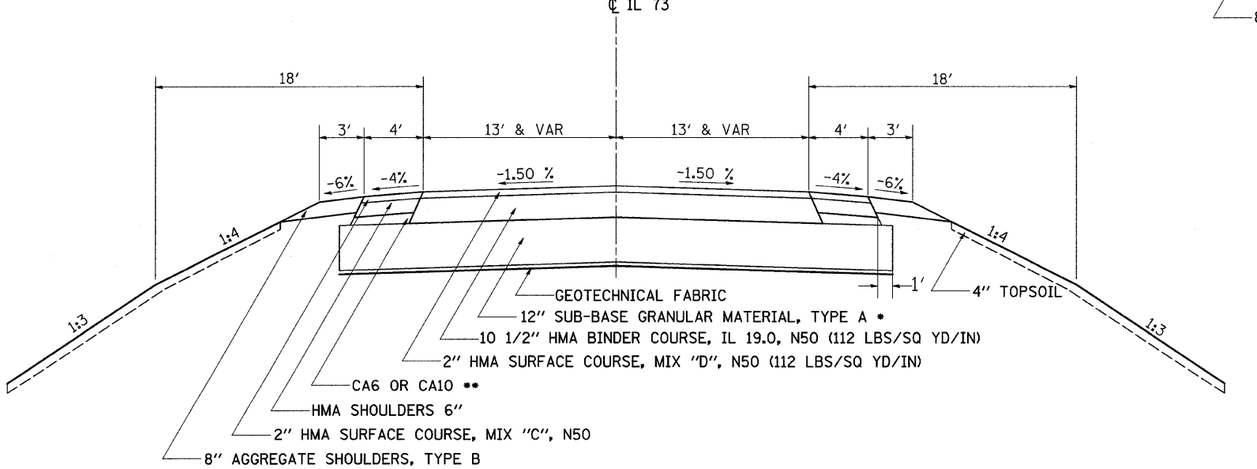
PROPOSED IL 73 TYPICAL

STA. 263+00 - STA. 265+00 & STA. 269+50 - STA. 277+60



PROPOSED IL 73 TYPICAL

STA. 265+00 - STA. 269+50



* 18″ SUB-BASE GRANULAR MATERIAL, TYPE A FROM STA 263+00 - STA 264+75 & STA 277+00 - STA 277+60

** COST TO BE INCLUDED IN SUB-BASE GRANULAR MATERIAL

*** 3′ AGGREGATE SHOULDERS END AT STA 278+50 & DITCHING END AT STA 279+00

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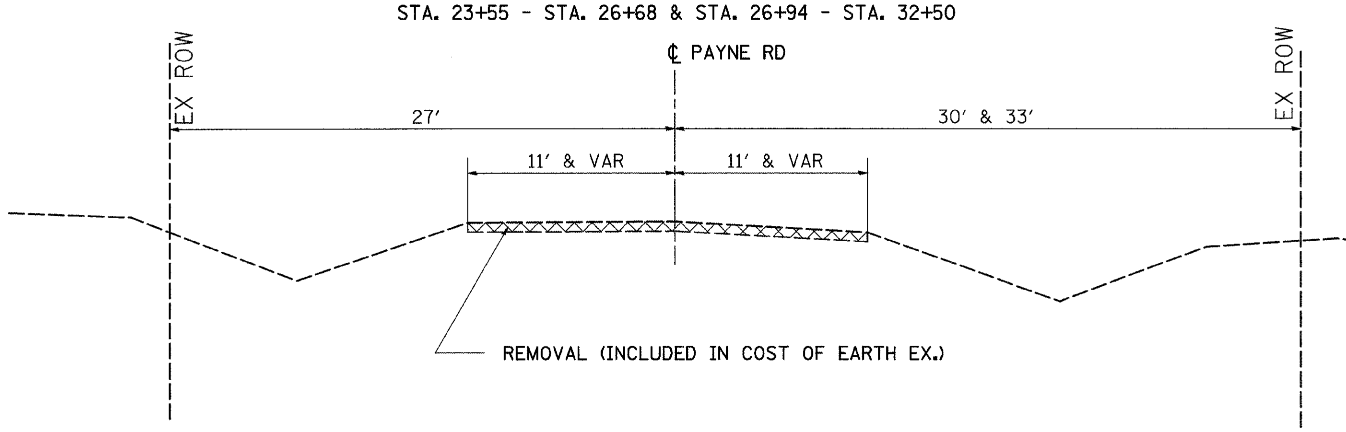
CONTRACT NO. 64B89

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
654	109M	CARROLL	76	9
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

TYPICAL SECTIONS

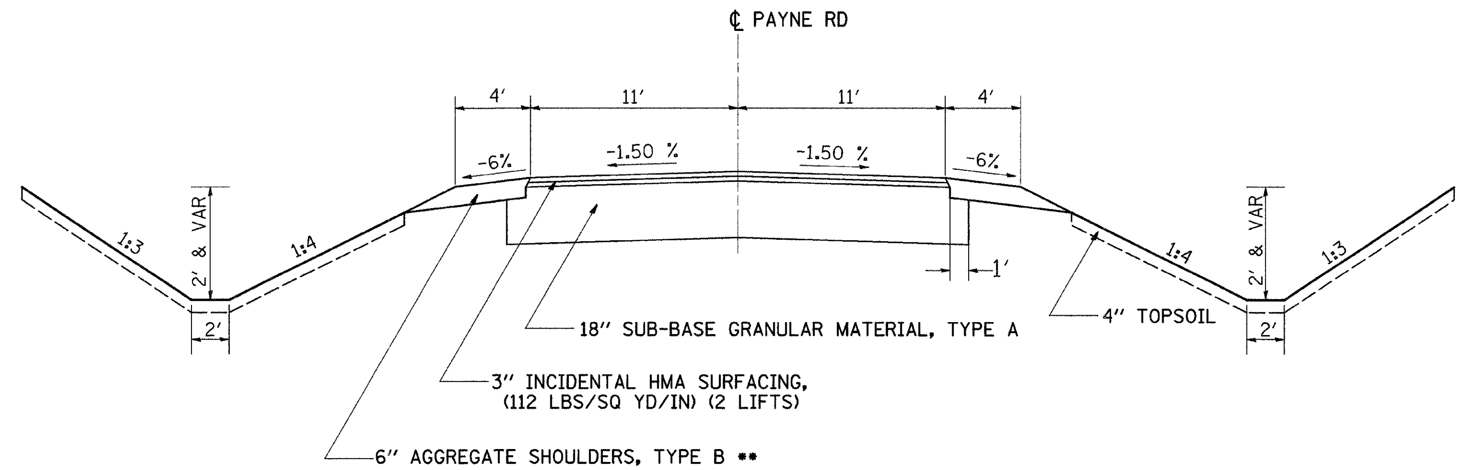
EXISTING WEST & EAST PAYNE TYPICAL

STA. 23+55 - STA. 26+68 & STA. 26+94 - STA. 32+50



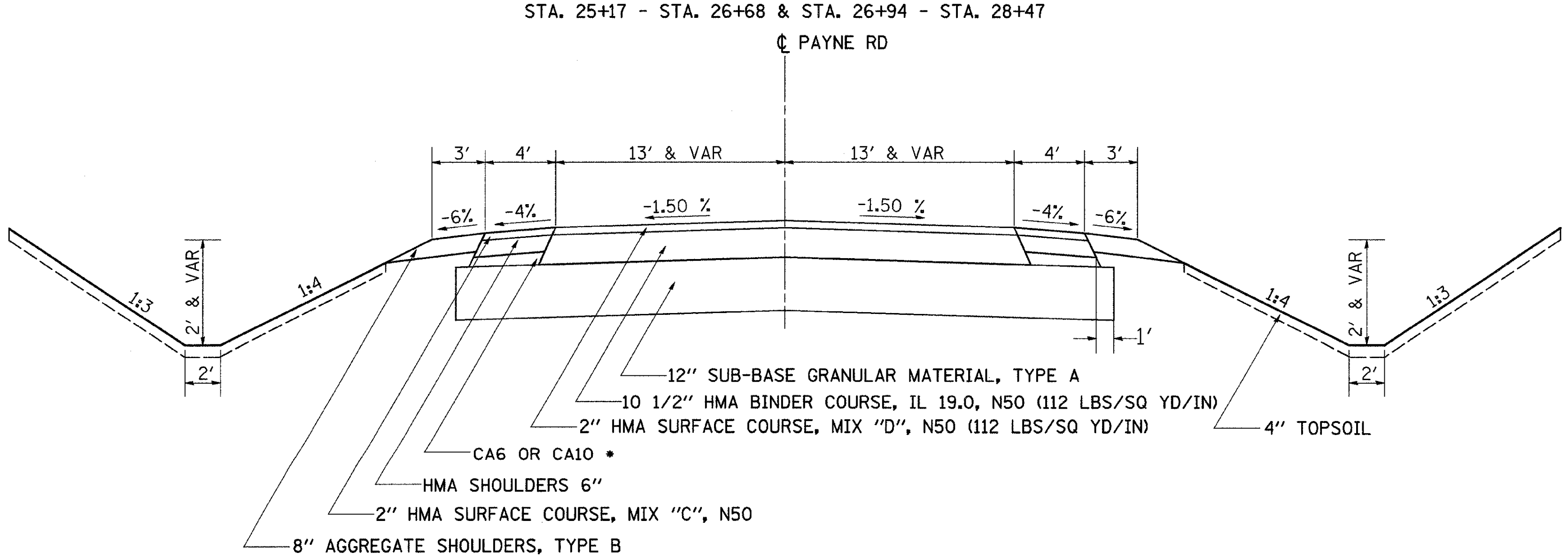
PROPOSED WEST & EAST PAYNE TYPICAL

STA. 23+55 - STA. 25+17 & STA. 28+47 - STA. 32+50



PROPOSED WEST & EAST PAYNE TYPICAL

STA. 25+17 - STA. 26+68 & STA. 26+94 - STA. 28+47



• COST TO BE INCLUDED IN SUB-BASE GRANULAR MATERIAL

•• AGGREGATE SHOULDER & DITCHING START AT STA 23+00

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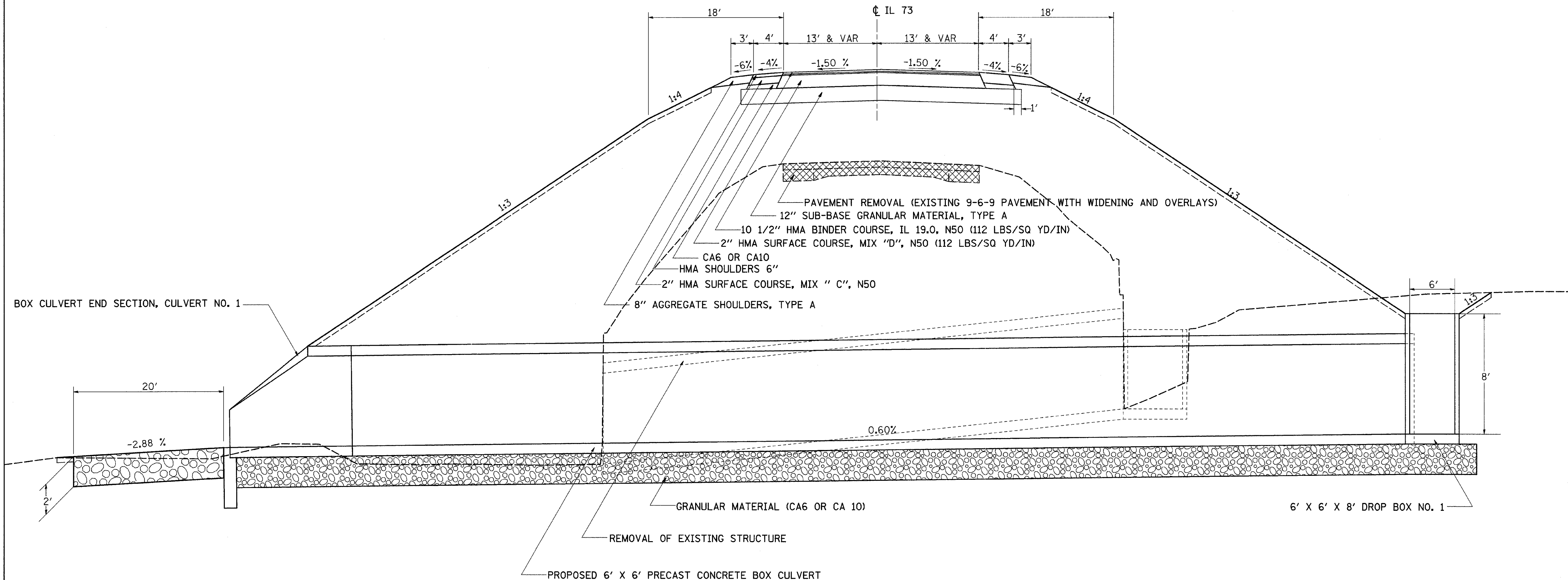
CONTRACT NO. 64B89

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
654	109M	CARROLL	76	10
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

TYPICAL SECTIONS

PROPOSED CULVERT TYPICAL

S.N. 008-1093
STA. 268+22.57



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CULVERT TYPICAL SECTION

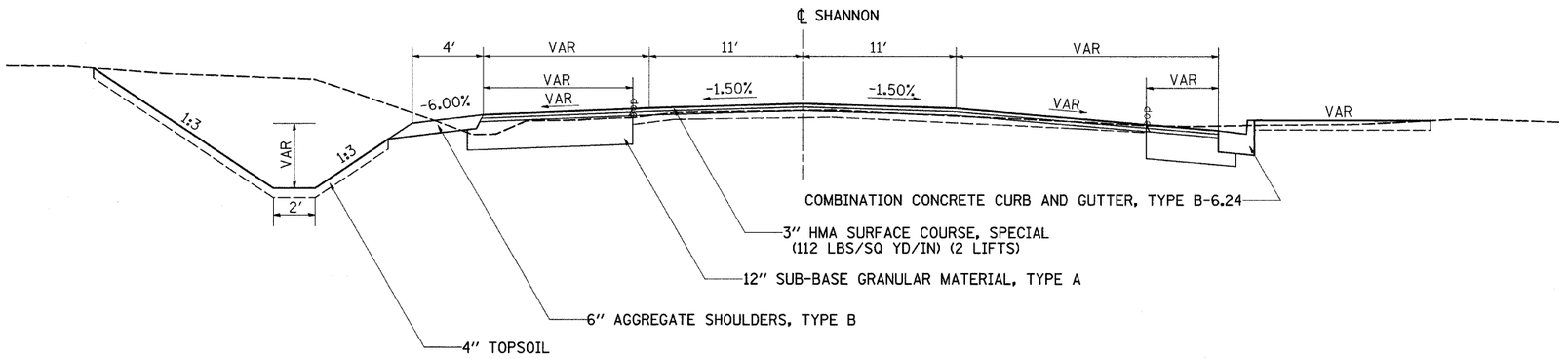
CONTRACT NO. 64B89

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
654	109M	CARROLL	76	11
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

TYPICAL SECTIONS

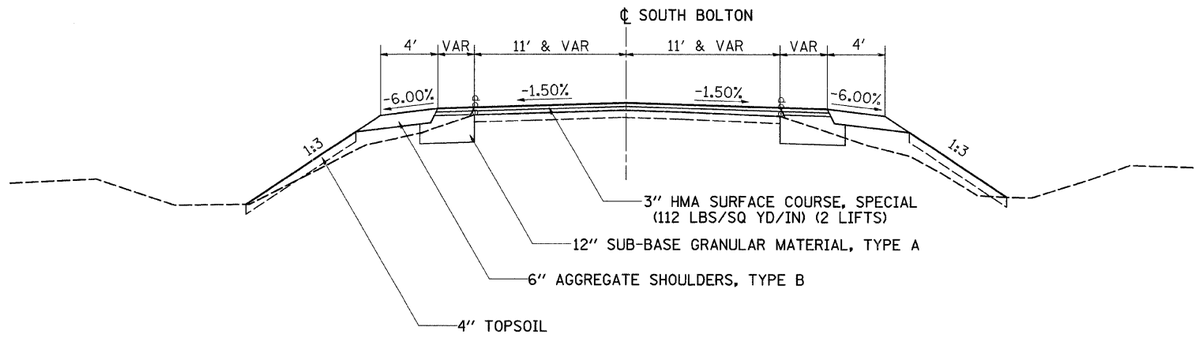
PROPOSED SHANNON TYPICAL

STA. 60+12.84 - STA. 61+23.47



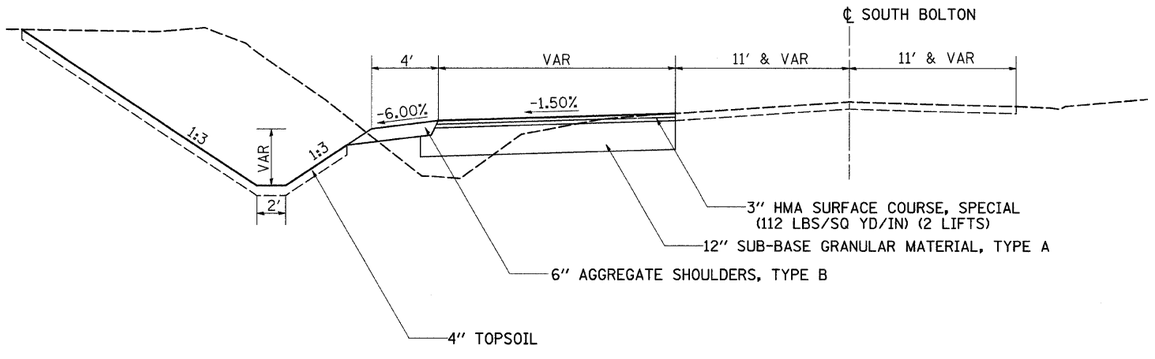
PROPOSED SOUTH BOLTON TYPICAL

STA. 700+11.36 - STA. 702+02.78



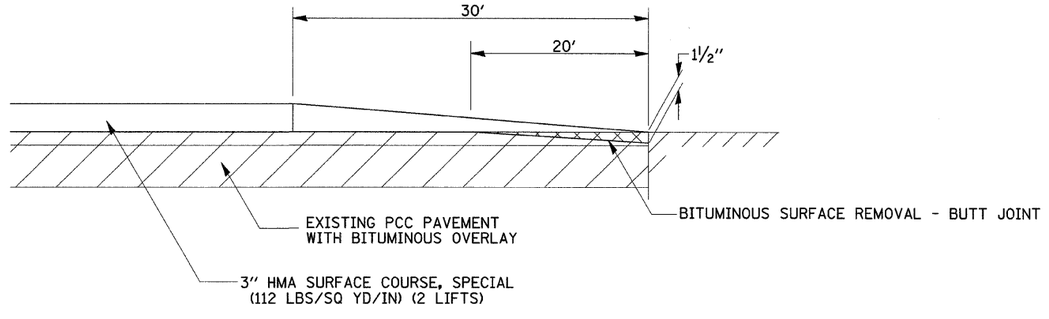
PROPOSED SOUTH BOLTON TYPICAL

STA. 798+41.70 - STA. 799+87.32



BUTT JOINT DETAIL

STA 60+12.84 - STA 60+42.84
STA 61+23.47 - STA 60+93.47
STA 700+11.36 - STA 700+41.36
STA 702+02.78 - STA 701+72.78



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DETOUR TYPICAL SECTIONS

CONTRACT NO. 64B89

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
654	109M	CARROLL	76	12
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

SCHEDULE OF QUANTITIES

20100110 TREE REMOVAL (6 TO 15 UNITS DIAMETER)

UNIT	LOCATION				OFFSET (ft)
	IL 73				
10	LT Sta.	272+84			69.26
10	RT Sta.	272+89			81.89
11	RT Sta.	272+93			60.52
10	RT Sta.	273+04			71.25
10	RT Sta.	273+07			87.58
8	RT Sta.	273+65			71.59
11	RT Sta.	273+98			69.55
11	RT Sta.	274+10			60.53
10	RT Sta.	274+17			74.52
10	RT Sta.	274+24			55.51
10	RT Sta.	274+37			73.51
11	RT Sta.	274+40			61.52
10	RT Sta.	274+50			73.53
12	RT Sta.	274+65			60.56
7	RT Sta.	274+72			72.57
12	RT Sta.	275+35			53.31
163	TOTAL				

20100210 TREE REMOVAL (OVER 15 UNITS DIAMETER)

UNIT	LOCATION				OFFSET (ft)
	IL 73				
21	LT Sta.	266+25			41.66

20100500 TREE REMOVAL, ACRES

ACRE	LOCATION				OFFSET (ft)
	IL 73				
0.40	LT Sta.	267+85.0	TO	269+11.0	37.6

20200100 EARTH EXCAVATION

CU YD	LOCATION				OFFSET (ft)
	IL 73				
10094	L & R Sta.	262+50.0	TO	279+00.0	
	Payne Rd				
976	L & R Sta.	22+50.0	TO	26+68.0	
8883	L & R Sta.	27+50.0	TO	33+00.0	
	IL72/Shannon Rd				
345	L & R Sta.	21+50.0	TO	213+50.0	
	South Bolton Road				
109	L & R Sta.	700+00.0	TO	702+50.0	
	South Bolton/Pearl City Road				
213	LT Sta.	798+42.0	TO	799+63.0	
20619	TOTAL				

20200200 ROCK EXCAVATION

CU YD	LOCATION				OFFSET (ft)	REMARKS
	IL 73					
4505	L & R Sta.	271+00.0	TO	278+00.0		See X-Sections
	Payne Rd					
1729	L & R Sta.	27+00.0	TO	30+50.0		See X-Sections
6234	TOTAL					

20400800 FURNISH EXCAVATION

CU YD	LOCATION				OFFSET (ft)
	South Bolton Road				
705	L & R Sta.	262+50.0	TO	278+00.0	
53	L & R Sta.	700+00.0	TO	702+02.0	
758	TOTAL				

21101615 TOPSOIL FURNISH AND PLACE, 4"

SQ YD	LOCATION				OFFSET (ft)
	IL 73				
11955	L & R Sta.	262+50.0	TO	279+00.0	
	Payne Rd				
1307	L & R Sta.	22+50.0	TO	26+68.0	
3824	L & R Sta.	27+50.0	TO	33+00.0	
	IL72/Shannon Rd				
1355	L & R Sta.	21+50.0	TO	213+50.0	
	South Bolton Road				
2323	L & R Sta.	700+00.0	TO	702+50.0	
	South Bolton/Pearl City Road				
968	LT Sta.	798+42.0	TO	799+63.0	
21732	TOTAL				

25000210 SEEDING, CLASS 2A

ACRE	LOCATION				OFFSET (ft)
	IL 73				
1.55	L & R Sta.	262+50.0	TO	279+00.0	
	Payne Rd				
0.13	L & R Sta.	22+50.0	TO	26+68.0	
0.23	L & R Sta.	27+50.0	TO	33+00.0	
	IL72/Shannon Rd				
0.14	L & R Sta.	21+50.0	TO	213+50.0	
	South Bolton Road				
0.24	L & R Sta.	700+00.0	TO	702+50.0	
	South Bolton/Pearl City Road				
0.10	LT Sta.	798+42.0	TO	799+63.0	
2.4	TOTAL				

25000310 SEEDING, CLASS 4

ACRE	LOCATION				OFFSET (ft)
	IL 73				
0.92	L & R Sta.	262+50.0	TO	279+00.0	
	Payne Rd				
0.14	L & R Sta.	22+50.0	TO	26+68.0	
0.56	L & R Sta.	27+50.0	TO	33+00.0	
	IL72/Shannon Rd				
0.14	L & R Sta.	21+50.0	TO	213+50.0	
	South Bolton Road				
0.24	L & R Sta.	700+00.0	TO	702+50.0	
	South Bolton/Pearl City Road				
0.10	LT Sta.	798+42.0	TO	799+63.0	
2	TOTAL				

25000400 NITROGEN NUTRIENT FERTILIZER

POUND	LOCATION				OFFSET (ft)
	IL 73				
223	L & R Sta.	262+50.0	TO	279+00.0	
	Payne Rd				
24	L & R Sta.	22+50.0	TO	26+68.0	
71	L & R Sta.	27+50.0	TO	33+00.0	
	IL72/Shannon Rd				
13	L & R Sta.	21+50.0	TO	213+50.0	
	South Bolton Road				
22	L & R Sta.	700+00.0	TO	702+50.0	
	South Bolton/Pearl City Road				
9	LT Sta.	798+42.0	TO	799+63.0	
362	TOTAL				

25000500 PHOSPHORUS FERTILIZER NUTRIENT

POUND	LOCATION				OFFSET (ft)
	IL 73				
223	L & R Sta.	262+50.0	TO	279+00.0	
	Payne Rd				
24	L & R Sta.	22+50.0	TO	26+68.0	
71	L & R Sta.	27+50.0	TO	33+00.0	
	IL72/Shannon Rd				
13	L & R Sta.	21+50.0	TO	213+50.0	
	South Bolton Road				
22	L & R Sta.	700+00.0	TO	702+50.0	
	South Bolton/Pearl City Road				
9	LT Sta.	798+42.0	TO	799+63.0	
362	TOTAL				

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CONTRACT NO. 64B89

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
654	109M	CARROLL	76	13
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

SCHEDULE OF QUANTITIES

25000600 POTASSIUM FERTILIZER NUTRIENT

POUND	LOCATION				OFFSET (ft)
	IL 73				
223	L & R Sta.	262+50.0	TO	279+00.0	
	Payne Rd				
24	L & R Sta.	22+50.0	TO	26+68.0	
71	L & R Sta.	27+50.0	TO	33+00.0	
	IL72/Shannon Rd				
13	L & R Sta.	21+50.0	TO	213+50.0	
	South Bolton Road				
22	L & R Sta.	700+00.0	TO	702+50.0	
	South Bolton/Pearl City Road				
9	LT Sta.	798+42.0	TO	799+63.0	
362 TOTAL					

25000750 MOWING

ACRE	LOCATION				OFFSET (ft)
	IL 73				
1.55	L & R Sta.	262+50.0	TO	279+00.0	
	Payne Rd				
0.13	L & R Sta.	22+50.0	TO	26+68.0	
0.23	L & R Sta.	27+50.0	TO	33+00.0	
	IL72/Shannon Rd				
0.14	L & R Sta.	21+50.0	TO	213+50.0	
	South Bolton Road				
0.24	L & R Sta.	700+00.0	TO	702+50.0	
	South Bolton/Pearl City Road				
0.10	LT Sta.	798+42.0	TO	799+63.0	
2.4 TOTAL					

NOTE: SAME AREAS OF CLASS 2A SEEDING

25100630 EROSION CONTROL BLANKET

SQ YD	LOCATION				OFFSET (ft)
	IL 73				
682	LT Sta.	262+50.0	TO	277+50.0	
850	RT Sta.	262+50.0	TO	277+50.0	
	Payne Rd				
673	LT Sta.	22+50.0	TO	33+00.0	
477	RT Sta.	22+50.0	TO	33+00.0	
2682 TOTAL					

28000250 TEMPORARY EROSION CONTROL SEEDING

POUND	LOCATION				OFFSET (ft)
	IL 73				
1336	L & R Sta.	262+50.0	TO	279+00.0	
	Payne Rd				
146	L & R Sta.	22+50.0	TO	26+68.0	
425	L & R Sta.	27+50.0	TO	33+00.0	
	IL72/Shannon Rd				
28	L & R Sta.	21+50.0	TO	213+50.0	
	South Bolton Road				
48	L & R Sta.	700+00.0	TO	702+50.0	
	South Bolton/Pearl City Road				
20	LT Sta.	798+42.0	TO	799+63.0	
2003 TOTAL					

Temporary seeding on both Class 2A & Class 4 seeding areas;100 lb/acre.

28000300 TEMPORARY DITCH CHECKS

EACH	LOCATION				OFFSET (ft)
	IL 73				
56	L & R Sta.	263+00	TO	277+50	
	Payne Rd				
68	L & R Sta.	22+50	TO	33+00	
124 TOTAL					

28000400 PERIMETER EROSION BARRIER

FOOT	LOCATION				OFFSET (ft)	REMARKS
	IL 73					
354	RT Sta.	265+50	TO	268+50		
538	LT Sta.	265+00	TO	270+00		
209	LT Sta.	277+00	TO	279+00		
	Payne Rd					
251	LT Sta.	30+50	TO	33+00		
1352 TOTAL						At discretion of the Engineer

28000500 INLET AND PIPE PROTECTION

EACH	LOCATION				OFFSET (ft)	REMARKS
	IL 73					
1	LT Sta.	264+53				FE CULVERT
1	RT Sta.	268+23				DROP BOX
1	RT Sta.	277+70				BOX CULVERT
	Payne Rd					
1	LT Sta.	22+75				PE CULVERT
1	RT Sta.	25+75				FE CULVERT
1	LT Sta.	28+00				AR CULVERT
	IL72/Shannon Rd					
1	LT Sta.	60+50.0				
	South Bolton/Pearl City Road					
1	LT Sta.	799+62.0				
8 TOTAL						

28000720 MULCH, METHOD 2

ACRE	LOCATION				OFFSET (ft)	REMARKS
	IL 73					
2.47	L & R Sta.	262+50.0	TO	279+00.0		
	Payne Rd					
0.27	L & R Sta.	22+50.0	TO	26+68.0		
0.79	L & R Sta.	27+50.0	TO	33+00.0		
	IL72/Shannon Rd					
0.28	L & R Sta.	21+50.0	TO	213+50.0		
	South Bolton Road					
0.48	L & R Sta.	700+00.0	TO	702+50.0		
	South Bolton/Pearl City Road					
0.20	LT Sta.	798+42.0	TO	799+63.0		
4.4 TOTAL						

28100107 STONE RIPRAP, CLASS A4

SQ YD	LOCATION				OFFSET (ft)	REMARKS
	IL 73					
44	LT Sta.	268+22.6				AT GRATED END SECTION

28200200 FILTER FABRIC

SQ YD	LOCATION				OFFSET (ft)	REMARKS
	IL 73					
44	LT Sta.	268+22.6				AT GRATED END SECTION

44000400 GUTTER REMOVAL

FOOT	LOCATION				OFFSET (ft)	REMARKS
	South Bolton Road					
188	L & R Sta.	700+11	TO	700+79		

44200071 PAVEMENT PATCHING, TYPE IV, 6 INCH

SQ YD	LOCATION				OFFSET (ft)	REMARKS
	Shannon Road					
43	L & R Sta.	60+23.0				
28	L & R Sta.	60+38.0				PROPOSED STORM SEWERS
71 TOTAL						EXISTING STORM SEWERS

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CONTRACT NO. 64B89

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
654	109M	CARROLL	76	14
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

SCHEDULE OF QUANTITIES

50100300 REMOVAL OF EXISTING STRUCTURES NO.1

EACH	LOCATION		REMARKS
	IL 73		
1		268+22.6	EXISTING 6'X6' BOX CULVERT

50105200 REMOVAL OF EXISTING CULVERTS

EACH	LOCATION		LENGTH (ft)	REMARKS
	Shannon Road			
1	Sta.	60+22.7	150	REMOVAL OF EXISTING 18" RCP ACROSS SHANNON ROAD.

50800105 REINFORCEMENT BARS

POUND	LOCATION		LENGTH (ft)	REMARKS
	IL 73			
63	LT Sta.	277+70.3		Concrete Collar

54001001 BOX CULVERT END SECTION, CULVERT NO.1

EACH	LOCATION		OFFSET (ft)	REMARKS
	IL 73			
1	LT Sta.	268+22.6		6'X6' Box Culvert

54002020 EXPANSION BOLTS 3/4 INCH

EACH	LOCATION		LENGTH (ft)	REMARKS
	IL 73			
12	LT Sta.	277+70.3		Concrete Collar

54010402 PRECAST CONCRETE BOX CULVERT 4'X2'

FOOT	LOCATION		OFFSET (ft)	REMARKS
	IL 73			
4	Sta.	277+70.3		Extend Lt. side Only.

54010606 PRECAST CONCRETE BOX CULVERT 6'X6'

FOOT	LOCATION		OFFSET (ft)	REMARKS
	IL 73			
141	Sta.	268+22.6		6'X6' Box Culvert

542D1060 PIPE CULVERTS, CLASS D, TYPE 2 15"

FOOT	LOCATION		OFFSET (ft)	REMARKS
	IL 73			
38	LT Sta.	264+75.0	33	FE
	Payne Road			
52	RT Sta.	25+50.0	27.14	FE
	South Bolton Road			
43	LT Sta.	701+00	39.5	FE
133	TOTAL			

54208635 PIPE CULVERTS, TYPE 2, CORRUGATED STEEL, EQUIVALENT ROUND-SIZE 30"

FOOT	LOCATION		OFFSET (ft)	REMARKS
	South Bolton / West Bolton Road			
1	RT Sta.	600+54.4	19	
	South Bolton Road/Pearl City Road			
13.5	LT Sta.	799+62.6	41	
14.5	TOTAL			

54210309 PIPE CULVERTS, TYPE 2, REINFORCED CONCRETE - ARCH, EQUIVALENT ROUND-SIZE 24"

FOOT	LOCATION		OFFSET (ft)	REMARKS
	Payne Road			
47		28+00.0		

54213450 END SECTIONS 15"

EACH	LOCATION		OFFSET (ft)	REMARKS
	IL 73			
2	LT Sta.	264+75.0	33	FE
	Payne Road			
2	RT Sta.	25+50.0	27.14	FE
	South Bolton Road			
2	LT Sta.	701+00	39.5	FE
6	TOTAL			

54213663 PRECAST REINFORCED CONCRETE FLARED END SECTIONS 18"

EACH	LOCATION		OFFSET (ft)	REMARKS
	Shannon Road			
1	LT Sta.	60+43.4	41.69	north west corner.

54213669 PRECAST REINFORCED CONCRETE FLARED END SECTIONS 24"

EACH	LOCATION		OFFSET (ft)	REMARKS
	IL 73			
1	LT Sta.	277+70.3		At west end of 4'X2' Box Culvert

54214305 END SECTIONS, EQUIVALENT ROUND-SIZE 30"

EACH	LOCATION		OFFSET (ft)	REMARKS
	South Bolton / West Bolton Road			
1	RT Sta.	600+54.4	19	
	South Bolton Road/Pearl City Road			
1	LT Sta.	799+62.6	41	
2	TOTAL			

54214299 END SECTIONS, EQUIVALENT ROUND-SIZE 24"

EACH	LOCATION		OFFSET (ft)	REMARKS
	Payne Road			
2	Sta.	28+00.0		

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SCHEDULE OF QUANTITIES

54248510 — CONCRETE COLLAR

CU YD	LOCATION		LENGTH (ft)	REMARKS
	IL 73			Box Culvert extension
1	LT Sta.	277+70.3		

550A0380 — STORM SEWERS, CLASS A, TYPE 2 18"

FOOT	LOCATION		OFFSET (ft)	REMARKS
	Shannon Road			
168	L & R Sta.	60+28.0		

60242400 — INLETS, SPECIAL

EACH	LOCATION		OFFSET (ft)	REMARKS
	IL 72			IL 72/ Shannon Rd Intersection
1	LT Sta.	213+13.7	17.46	

60242801 — INLETS, SPECIAL, NO. 5

EACH	LOCATION		OFFSET (ft)	REMARKS
	IL 72			IL 72/ Shannon Rd Intersection
1	LT Sta.	60+27	50.60	

60500050 — REMOVING CATCH BASINS

EACH	LOCATION		OFFSET (ft)	REMARKS
	IL 72			IL 72/ Shannon Rd
1	LT Sta.	213+04	18.35	

60605000 — COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.24

FOOT	LOCATION				OFFSET (ft)	REMARKS
	IL 72/ Shannon Rd					NORTH EAST QUADRANT.
190	RT Sta.	60+13	TO	61+23		

63200310 — GUARDRAIL REMOVAL

FOOT	LOCATION				OFFSET (ft)	REMARKS
	IL 73					
200	LT Sta.	267+27.7	TO	269+32.7		
250	RT Sta.	267+05	TO	269+52.0		
450 TOTAL						

63500105 — DELINEATORS

EACH	LOCATION		OFFSET (ft)	REMARKS
	IL 73			
2	L & R Sta.	268+22.6		
2	L & R Sta.	277+70.3		
	Payne Road	28+00.0		
2	L & R Sta.			
	Shannon Road			
1	LT Sta.	60+43.4		
	South Bolton / West Bolton Road			
1	LT Sta.	600+54.4		
	South Bolton Road			
1	RT Sta.	799+62.6		
9 TOTAL				

66500105 — WOVEN WIRE FENCE, 4'

FOOT	LOCATION				OFFSET (ft)	REMARKS
	IL 73					
1044	LT Sta.	262+00.0	TO	272+15.0		

66501800 — WOVEN WIRE GATES, 4' X 20' DOUBLE

EACH	LOCATION		OFFSET (ft)	REMARKS
	IL 73			
1	LT Sta.	264+75.0		AT FIELD ENTRANCE

66600105 — FURNISHING AND ERECTING RIGHT-OF-WAY MARKERS

EACH	LOCATION		OFFSET (ft)	REMARKS
	IL 73	262+00.0	40	
1	LT Sta.	263+00.0	50	
1	LT Sta.	266+50.0	50	
1	LT Sta.	267+50.0	70	
1	LT Sta.	268+00.0	125	
1	LT Sta.	268+50.0	125	
1	LT Sta.	269+00.0	85	
1	LT Sta.	271+50.0	85	
1	LT Sta.	273+50.0	60	
1	LT Sta.	275+00.0	75	
1	LT Sta.	276+50.0	70	
1	LT Sta.	278+00.0	60	
1	LT Sta.	279+00.0	42.29	
1	RT Sta.	262+00.0	52	
1	RT Sta.	263+00.0	60	
1	RT Sta.	266+00.0	60	
1	RT Sta.	268+00.0	66.96	
1	RT Sta.	271+50.0	85	
1	RT Sta.	273+50.0	80	
1	RT Sta.	275+00.0	90	
1	RT Sta.	276+00.0	90	
1	RT Sta.	278+00.0	60	
1	RT Sta.	279+00.0	40	
	Payne Road			
1	LT Sta.	22+50.0	33.25	
1	LT Sta.	23+00.0	40	
1	LT Sta.	23+50.6	35	
1	LT Sta.	23+50.7	40	
1	LT Sta.	23+65.0	35	
1	LT Sta.	23+65.0	40	
1	LT Sta.	25+00.0	40	
1	LT Sta.	26+00.0	55	
1	LT Sta.	28+00.0	80	
1	LT Sta.	29+00.0	75	
1	LT Sta.	30+50.0	55	
1	LT Sta.	32+50.0	50	
1	LT Sta.	33+00.0	28.08	
1	RT Sta.	22+50.0	26.75	
1	RT Sta.	23+00.0	50	
1	RT Sta.	25+75.0	55	
1	RT Sta.	29+00.0	65	
1	RT Sta.	30+50.0	32.09	
1	RT Sta.	31+00.0	32.12	
	IL 72			
1	LT Sta.	210+50.0	32.77	DETOUR
1	LT Sta.	212+50.0	40	DETOUR
1	LT Sta.	213+00.0	31.94	DETOUR
	Shannon Rd			
1	LT Sta.	60+50.0	50	DETOUR
1	LT Sta.	61+00.0	34.37	DETOUR
1	RT Sta.	60+50.0	45	DETOUR
1	RT Sta.	61+25.0	31.6	DETOUR
	West Bolton			
1	LT Sta.	599+00.0	39.01	DETOUR
1	LT Sta.	600+75.0	39.19	DETOUR
	South Bolton			
1	LT Sta.	700+50.0	45	DETOUR
1	LT Sta.	701+50.0	44.44	DETOUR
1	RT Sta.	700+75.0	45	DETOUR
1	RT Sta.	701+00.0	39.5	DETOUR
	South Bolton/Pearl City Rd			
1	LT Sta.	799+00.0	40.27	DETOUR
1	LT Sta.	899+00.0	33.69	DETOUR
56 TOTAL				

66700305 — PERMANENT SURVEY MARKERS, TYPE II

EACH	LOCATION	OFFSET (ft)	REMARKS
	IL 73		
2	Entire Job.		

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SCHEDULE OF QUANTITIES

66900200 NON-SPECIAL WASTE DISPOSAL

CU YD	LOCATION				OFFSET (ft)	REMARKS
	IL 72/ Shannon Rd					
• 50	L & R Sta.	60+13	TO	61+23		MONITORING WELL LOCATIONS

•ESTIMATED QUANTITIES FOR ALL LOCATIONS

66900205 SPECIAL WASTE DISPOSAL

CU YD	LOCATION				OFFSET (ft)	REMARKS
	IL 72/ Shannon Rd					
• 50	L & R Sta.	60+13	TO	61+23		MONITORING WELL LOCATIONS

•ESTIMATED QUANTITIES FOR ALL LOCATIONS

67201100 SEALING ABANDONED MONITORING WELLS

EACH		LOCATION		OFFSET (ft)	REMARKS
		Shannon Road			
1		RT Sta.	60+45	42.0	
1		RT Sta.	60+91	41.4	
2	TOTAL				

70300100 SHORT-TERM PAVEMENT MARKING

FOOT WHITE	FOOT YELLOW	LOCATION				REMARKS
		IL 73				
944		RT Sta.	263+00	TO	272+44	White Edge line Right
944		LT Sta.	263+00	TO	272+44	White Edge line Left
500		RT Sta.	273+00	TO	278+00	White Edge line Right
500		LT Sta.	273+00	TO	278+00	White Edge line Left
	1100	Sta.	263+00	TO	274+00	Yellow -Center line
	500	Sta.	274+00	TO	278+00	Solid RT/ Skip LT
		Payne Road				
218		RT Sta.	23+00	TO	25+18	White Edge line Right
218		LT Sta.	23+00	TO	25+18	White Edge line Left
403		RT Sta.	28+47	TO	32+50	White Edge line Right
403		LT Sta.	28+47	TO	32+50	White Edge line Left
	218	Sta.	23+00	TO	25+18	Yellow -Center line
	403	Sta.	28+47	TO	32+50	Yellow -Center line
		South Bolton Rd				
	120	Sta.	700+35	TO	701+55	Yellow -Center line
189		L & R Sta.	700+11	TO	702+00	White Edge line Right
		IL 72/ Shannon Rd				
111		L & R Sta.	60+13	TO	61+24	White Edge line Right
		South Bolton Rd/ Pearl City Rd				
146		LT Sta.	798+42	TO	799+88	White Edge line Right
4576	2341					
6917		TOTAL				

USE IF ROADWAY IS OPEN TO TRAFFIC BEFORE STRIPING

70301000 WORK ZONE PAVEMENT MARKING REMOVAL

SQ FT WHITE	SQ FT YELLOW	LOCATION				REMARKS
		IL 73				
312		RT Sta.	263+00	TO	272+44	White Edge line Right
312		LT Sta.	263+00	TO	272+44	White Edge line Left
165		RT Sta.	273+00	TO	278+00	White Edge line Right
165		LT Sta.	273+00	TO	278+00	White Edge line Left
	363	Sta.	263+00	TO		Yellow -Center line
	165	Sta.	274+00	TO	278+00	Solid RT/ Skip LT
		Payne Road			274+00	
72		RT Sta.	23+00	TO	25+18	White Edge line Right
72		LT Sta.	23+00	TO	25+18	White Edge line Left
133		RT Sta.	28+47	TO	32+50	White Edge line Right
133		LT Sta.	28+47	TO	32+50	White Edge line Left
	72	Sta.	23+00	TO	25+18	Yellow -Center line
	133	Sta.	28+47	TO	32+50	Yellow -Center line
		South Bolton Rd				
	40	Sta.	700+35	TO	701+55	Yellow -Center line
62		L & R Sta.	700+11	TO	702+00	White Edge line Right
		IL 72/ Shannon Rd				
37		L & R Sta.	60+13	TO	61+24	White Edge line Right
		South Bolton Rd/ Pearl City Rd				
48		LT Sta.	798+42	TO	799+88	White Edge line Right
1510	773					
2283		TOTAL				

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CONTRACT NO. 64B89

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
654	109M	CARROLL	76	17
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

SCHEDULE OF QUANTITIES

78001110 PAINT PAVEMENT MARKING - LINE 4"

FOOT WHITE	FOOT YELLOW	LOCATION (2 APPLICATIONS)				OFFSET (ft)	REMARKS
		IL 73					
1889		RT Sta.	263+00	TO	272+44		White Edge line Right
1889		LT Sta.	263+00	TO	272+44		White Edge line Left
1000		RT Sta.	273+00	TO	278+00		White Edge line Right
1000		LT Sta.	273+00	TO	278+00		White Edge line Left
2200	4400	Sta.	263+00	TO	274+00		Double Yellow -Center line
	1000	Sta.	274+00	TO	278+00		Solid RT/ Skip LT
		Payne Road					
436		RT Sta.	23+00	TO	25+18		White Edge line Right
436		LT Sta.	23+00	TO	25+18		White Edge line Left
806		RT Sta.	28+47	TO	32+50		White Edge line Right
806		LT Sta.	28+47	TO	32+50		White Edge line Left
	872	Sta.	23+00	TO	25+18		Double Yellow -Center line
	1612	Sta.	28+47	TO	32+50		Double Yellow -Center line
		South Bolton Rd					
	480	Sta.	700+35	TO	701+55		Double Yellow -Median
905		L & R Sta.	700+11	TO	702+00		White Edge line Right
		IL 72/ Shannon Rd					
680		L & R Sta.	60+13	TO	61+24		White Edge line Right
		South Bolton Rd/ Pearl City Rd					
360		LT Sta.	798+42	TO	799+88		White Edge line Right
12407	8364						
20771	TOTAL						

Note: CONTRACTOR SHALL CALL Kurt Glazier from the Bureau of operation prior to striping. see GENERAL NOTES.

78001150 PAINT PAVEMENT MARKING - LINE 12"

FOOT	LOCATION				OFFSET (ft)	REMARKS
	South Bolton Rd					
50	Sta.	700+35	TO	701+55		Diagonals @ 20' Centers Yellow

78004280 PREFORMED PLASTIC PAVEMENT MARKING, TYPE B - INLAID - LINE 24"

FOOT	LOCATION		OFFSET (ft)	REMARKS
	Payne Road			
24	RT Sta.	26+40		Stop bar White
24	LT Sta.	27+22		Stop bar White
	South Bolton Rd			
26	LT Sta.	700+40		Stop bar White
	IL 72/ Shannon Rd			
28	LT Sta.	60+40		Stop bar White
102 TOTAL				

X0323455 ADJUST MONITORING WELL

EACH	LOCATION		OFFSET (ft)	REMARKS
	IL 72			
1	LT Sta.	212+62	28.0	
	Shannon Road			
1	LT Sta.	60+38	16.0	
1	LT Sta.	60+79	10.5	
1	LT Sta.	61+09	12.5	
4 TOTAL				

X0323660 DROP BOX NO.1

EACH	LOCATION		OFFSET (ft)	REMARKS
	IL 73			
1	RT Sta.	268+22.6		6'X8'X8' DROP STRUCTURE

X0325519 DRAIN FOR AGGREGATE BASE COURSE

SQ YD	LOCATION		OFFSET (ft)
	IL 73		
3	L & R Sta.	265+00.0	
3	L & R Sta.	268+22.0	
3	L & R Sta.	272+00.0	
3	L & R Sta.	277+00.0	
	Payne Road		
3	L & R Sta.	29+50.0	
15 TOTAL			

Z0020900 ESTABLISHING AND REFERENCING LAND SECTION MARKERS

EACH	LOCATION		OFFSET (ft)
	IL 73		
1	LT Sta.	272+43.0	5

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CONTRACT NO. 64B89

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
654	109M	CARROLL	76	18
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

BITUMINOUS SCHEDULE

STATIONING	LENGTH	WIDTH	AREA	35101400 AGG BASE CSE TYPE B **	42300300 PCC PAVT 7 INCH	40701891 HMA PAVT FULL DEPTH 10 1/2"	40600990 TEMP RAMP	40600982 HMA SURF REM BUTT - JOINTS	48203021 HMA SHLDS, 6"	40603310 HMS SURF CSE MIX "C" N50	48101200 AGG SHLDS TYPE B	40603335 HMA SURF CSE MIX "D" N 50	40800050 INCID HMA SURFACING N50	#2001392 HMA SURF CSE SPECIAL	31100910 SUB-BASE GRAN-MAT TYPE A 12"	31100935 SUB-BASE GRAN-MAT TYPE A 18"	Z0005400 BRKR- RUN CRUSHED STONE	21001000 GEO TECH FAB FOR GR STAB	44000100 PAVT REM	44004300 PAVT BREAKING
	FT	FT	SQ YD	TON	SQ YD	SQ YD	SQ YD	SQ YD	SQ YD	TON	TON	TON	TON	TON	SQ YD	SQ YD	TONS	SQ YD	SQ YD	SQ YD
IL 73																				
263 + 0 _ 264 + 75	175	26	505.6			505.6			155.6	17.4	76.8	56.6					717.5		505.6	
264 + 75 _ 270 + 25	550	26	1588.9			1588.9			488.9	54.8	241.4	178.0			2200.0					1588.9
270 + 25 _ 272 + 0	175	26	505.6			505.6			155.6	17.4	76.8	56.6			700.0				505.6	
272 + 0 _ 273 + 0	100	VAR*	1999.9			1999.9			88.9	10.0	43.9	224.0			400.0				1999.9	
273 + 0 _ 277 + 0	400	26	1155.6			1155.6			355.6	39.8	175.5	129.4			1600.0				1155.6	
277 + 0 _ 277 + 60	60	26	173.3			173.3			53.3	6.0	26.3	19.4					246		173.3	
PAYNE ROAD																				
23 + 55 _ 24 + 0	45	22	110.0								38.0		21.6			120.0		110.0		
24 + 0 _ 25 + 17	117	22	286.0								44.4		56.1			312.0		286.0		
25 + 17 _ 26 + 68	151	22	369.1												402.7			369.1		
26 + 94 _ 28 + 52	158	22	386.2												421.3			386.2		
28 + 52 _ 29 + 0	48	22	117.3								18.2		23.0			128.0		117.3		
29 + 0 _ 30 + 0	100	22	244.4								38.0		47.9			266.7		244.4		
30 + 0 _ 31 + 0	100	22	244.4								38.0		47.9			266.7		244.4		
31 + 0 _ 32 + 50	150	22	366.7								56.9		71.9			400.0		366.7		
IL 72 / SHANNON RD																				
60.00 + 93.47 _ 61.00 + 23.47								48.9												
60.00 + 12.84 _ 61.00 + 23.47	111	22	321.6				24.4						139.7		321.6					
61 + 23.47		22					24.4													
60.00 + 12.84 _ 60.00 + 48.84								48.9												
SOUTH / WEST BOLTON																				
700 + 11.36 _ 700 + 41.36								48.9												
700.00 + 11.36 _ 702 + 0	189	22	278.8				24.4				85.9		176.7		278.8					
702 + 2.78		22					24.4													
701 + 72.78 _ 702 + 2.78								48.9												
S. BOLTON/ PEARL CITY																				
798 + 42 _ 799 + 88	146	22	169.9				24.4				34.2		33.3		169.9					
22 + 50 LT PAYNE RD	PE		83.9	57.3									9.4							
25 + 50 RT PAYNE RD	PE		83.9	57.3									9.4							
31 + 0 LT PAYNE RD	PE		112.0	76.5									12.5							
264 + 75 LT IL 73	PE		111.1	75.9									12.4							
701 + 0 LT DETOUR	PE		134.0	91.8									15.0							
212 + 83 LT DETOUR	CE		63.9		63.9															
60 + 96 RT DETOUR	CE		63.9		63.9															
GOOD NEIGHBOR POLICY																				
ZIER ROAD" FROM IL 72 TO TIMBER RD"	9874	22	24135.5								42.0			202.7						
ZIER ROAD" FROM TIMBER RD TO LAKE CARROLL BLVD"	2482	22	6066.1								10.6			51.0						
WEST SABIN CHURCH RD FROM SHANNON RD TO IL 73	21120	22	51626.7								89.8			433.7						
SHANNON ROAD FROM WEST BOLTON RD TO WEST SABIN	2640	22	6453.3								11.2			54.2						
CHURCH RD																				
TOTALS				359	128	5929	122	196	1298	145	1148	664	677	742	6494	1493	964	2124	4340	1589

* INCLUDING INTERSECTION AREA
** USE 12" THICKNESS, AND 18" FROM STA 263+00 TO STA 264+75 AND STA 277+00 TO STA 277+60
NOTE: the cost of the prime coats shall be included in the cost of the contract unit price per tons for HMA SURFACE COURSE MIX D N50.

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EARTHWORK SCHEDULE

STATION NO.	EARTH EX CUT CU YD	SHRINK FACTOR 25%	EMBANKEMENT FILL CU YD	BALANCE WASTE (+) SHORT (-) CU. YDS.
IL ROUTE 73				
262 + 50 TO 279 + 00	10094.1	7571	8275.4	-704.8
WEST PAYNE ROAD				
22 + 50 TO 26 + 00	975.6	732	13.2	718.5
EAST PAYNE ROAD				
27 + 50 TO 33 + 00	8883.3	6662	14.9	6647.6
IL 72 / SHANNON ROAD INTERSECTION				
210 + 50 TO 213 + 50	345.1	259	8.4	250.4
SOUTH BOLTON /WEST BOLTON ROAD				
700 + 00 TO 702 + 50	108.7	82	134.2	-52.7
SOUTH BOLTON /PEARLCITY ROAD				
798 + 00 TO 799 + 63	212.6	159	15.9	143.6
	20619 EARTH EX		8462	7003 WASTE (+)

	ROCK CUT	BALANCE WASTE (+) SHORT (-) CU. YDS.
IL ROUTE 73		
271 + 00 TO 278 + 00	4505.0	4505
EAST PAYNE ROAD		
27 + 00 TO 30 + 50	1729	1729
	TOTALS	6234

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CONTRACT NO. 64B89

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
654	109M	CARROLL	76	20
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

HORIZONTAL & VERTICAL CONTROL

Chain 73 contains:
21 CUR 200 1005

Beginning chain 73 description
==========

Point 21 N 1,999,272.8610 E 2,389,522.1510 Sta 222+36.5521

Course from 21 to PC 200 358° 35′ 03.4211″ Dist 7,907.8400′

Curve Data

Curve 200
P.I. Station 306+45.9828 N 2,007,679.7247 E 2,389,314.3843
Delta = 0° 27′ 10.9780″ (RT)
Degree = 0° 02′ 42.5814″
Tangent = 501.5907′
Length = 1,003.1762′
Radius = 126,868.6263′
External = 0.9915′
Long Chord = 1,003.1736′
Mid. Ord. = 0.9915′
P.C. Station 301+44.3921 N 2,007,178.2871 E 2,389,326.7768
P.T. Station 311+47.5682 N 2,008,181.2446 E 2,389,305.9571
C.C. N 2,010,312.7538 E 2,516,156.6764

Course from PT 200 to 1005 359° 02′ 14.3991″ Dist 13,562.4132′

Point 1005 N 2,021,741.7435 E 2,389,078.0961 Sta 447+09.9814

==========
Ending chain 73 description

Chain PAYNE-W contains:
56 55

Beginning chain PAYNE-W description
==========

Point 56 N 2,004,259.72 E 2,388,717.37 Sta 20+00.0000

Course from 56 to 55 88° 23′ 23.4461″ Dist 681.33′

Point 55 N 2,004,278.87 E 2,389,398.43 Sta 26+81.3280

==========
Ending chain PAYNE-W description

Chain PAYNE-E contains:
54 50

Beginning chain PAYNE-E description
==========

Point 54 N 2,004,280.29 E 2,389,398.40 Sta 26+81.3280

Course from 54 to 50 89° 31′ 55.4120″ Dist 822.36′

Point 50 N 2,004,287.01 E 2,390,220.73 Sta 35+03.6838

==========
Ending chain PAYNE-E description

SURVEY WORK POINTS

POINT	NORTH	EAST	ELEVATION	CHAIN	STATION	OFFSET	DESCRIPTION
100	2004243.1860	2389157.3400	873.7630	73	272+14.3731	241.9008′ LT	TOPO SURVEY POINT, NAIL
101	2003994.3070	2389381.7740	868.1350	73	269+60.0251	23.6842′ LT	TOPO SURVEY POINT, NAIL
102	2003111.1450	2389360.6980	891.7840	73	260+77.6534	66.5735′ LT	TOPO SURVEY POINT, NAIL
103	2004358.8070	2389441.4040	886.6700	73	273+22.9406	44.9331′ RT	GPS CONTROL POINT, NAIL
104	2005425.1920	2389323.3770	861.4850	73	283+91.9161	46.7114′ LT	TOPO SURVEY POINT, NAIL

BENCH MARKS

POINT	NORTH	EAST	ELEVATION	CHAIN	STATION	OFFSET	DESCRIPTION
401	2003025.6046	2389466.2979	897.1490	73	259+89.5301	36.8807′ RT	DISTRICT NETWORK MONUMENT, PERM. SURVEY MARKER
402	2003855.3646	2389445.4024	855.7670	73	268+19.5531	36.492′ RT	HEADWALL, CHISELED SQUARE
403	2004809.5689	2389364.1543	876.9770	73	277+75.4734	21.1563′ LT	HEADWALL, CHISELED SQUARE
404	2005529.7240	2389389.5340	868.0780	73	284+94.7817	22.008′ RT	HEADWALL, CHISELED SQUARE

REFERENCE TIES

POINT	CHAIN	STATION	OFFSET	DESCRIPTION
500	73	272+23.4608	894.7276′ LT	1.3′ PIPE CULVERT, END
501	73	272+26.9666	867.6387′ LT	MAILBOX, SHINER
502	73	272+19.4749	965.1675′ LT	POWER POLE, SHINER
503	73	271+98.0853	50.6061′ RT	POWER POLE WITH LIGHT, SHINER
504	73	272+83.3693	38.2223′ RT	POWER POLE, SHINER
505	73	272+11.5872	52.5582′ RT	R.O.W. MARKER, TOP
506	73	259+05.6580	39.0545′ LT	GUY POLE, SHINER
507	73	259+08.2144	38.3493′ RT	POWER POLE, SHINER
508	73	260+54.7755	48.4953′ RT	POWER POLE, SHINER
509	73	279+39.3581	37.4312′ RT	POWER POLE, SHINER
510	73	277+67.8558	37.6701′ RT	POWER POLE, SHINER
511	73	279+16.7723	43.2014′ LT	FENCE POST, SHINER

APPARENT PROPERTY CORNERS

POINT	NORTH	EAST	ELEVATION	CHAIN	STATION	OFFSET	DESCRIPTION
701	2004949.3440	2389338.9950	876.9560	73	279+15.8275	42.8546′ LT	PROPERTY CORNER, PIN

REVISIONS NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

SCALE: VERT. HORIZ.
DATE
DRAWN BY
CHECKED BY

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PLOT SCALE = 50.0000 '/ IN.
USER NAME = gaf1jl

HORIZONTAL & VERTICAL CONTROL

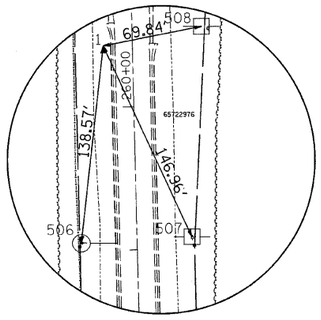
CONTRACT NO. 64B89

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
654	109M	CARROLL	76	21
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

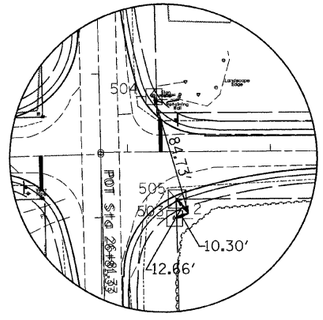
HORIZONTAL & VERTICAL CONTROL

HORIZONTAL CONTROL POINTS

POINT	NORTH	EAST	ELEVATION	CHAIN	STATION	OFFSET	DESCRIPTION
1	2003077.5980	2389407.7810	888.8960	73	260+42.9534	20.3337′ LT	GPS CONTROL POINT, PIN
2	2004237.8470	2389459.7620	886.0590	73	272+01.5639	60.297′ RT	GPS CONTROL POINT, PIN
3	2004929.5960	2389425.9400	885.3440	73	278+93.9374	43.5759′ RT	GPS CONTROL POINT, PIN
5	2004228.4380	2388476.0290	864.5270	73	272+16.4623	923.3682′ LT	GPS CONTROL POINT, PIN
65722976	2003025.6046	2389466.2979	897.1490	73	259+89.5301	36.8807′ RT	DISTRICT NETWORK MONUMENT, PERM. SURVEY MARKER
65722977	2007352.2250	2389282.1355	938.6500	73	303+19.3240	40.4509′ LT	DISTRICT NETWORK MONUMENT, PERM. SURVEY MARKER



HORIZONTAL CONTROL POINT NO. 1



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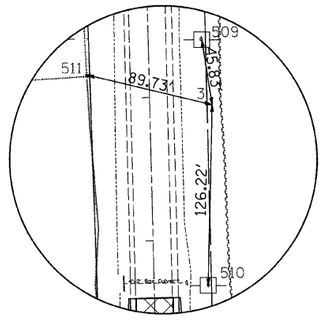

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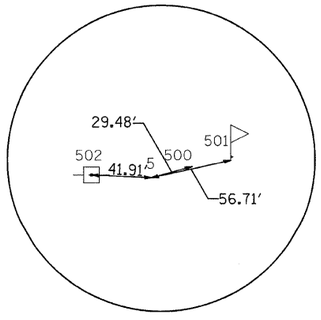

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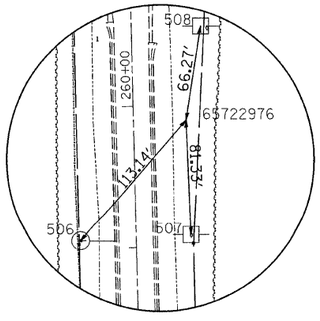
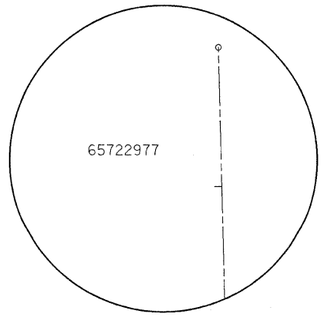


HORIZONTAL CONTROL POINT NO. 65722976



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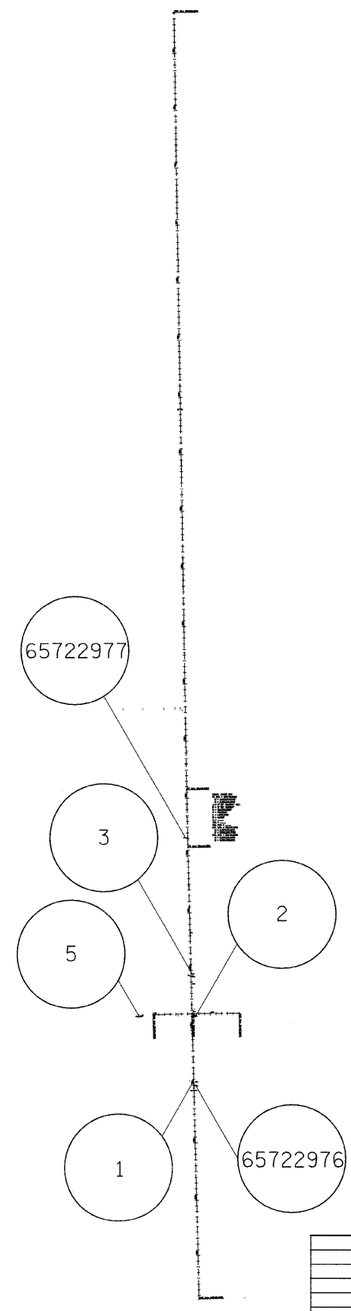

REVISIONS NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

SCALE: VERT. HORIZ.
DATE
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PLOT DATE = Thu Dec 13 14:49:18 2007
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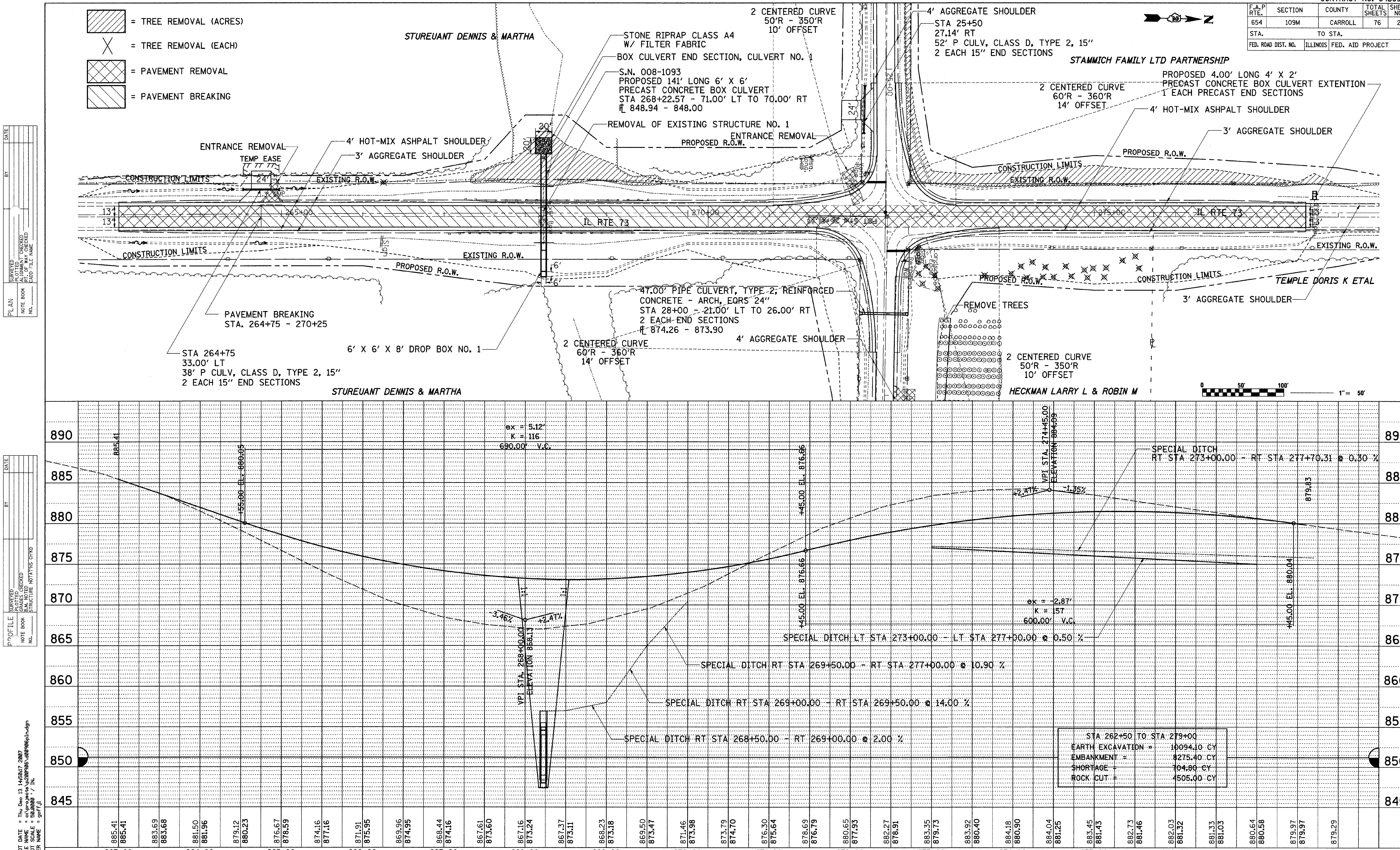
USER NAME = goff_jl

HORIZONTAL & VERTICAL CONTROL

CONTRACT NO. 64B89

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
654	109M	CARROLL	76	22
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

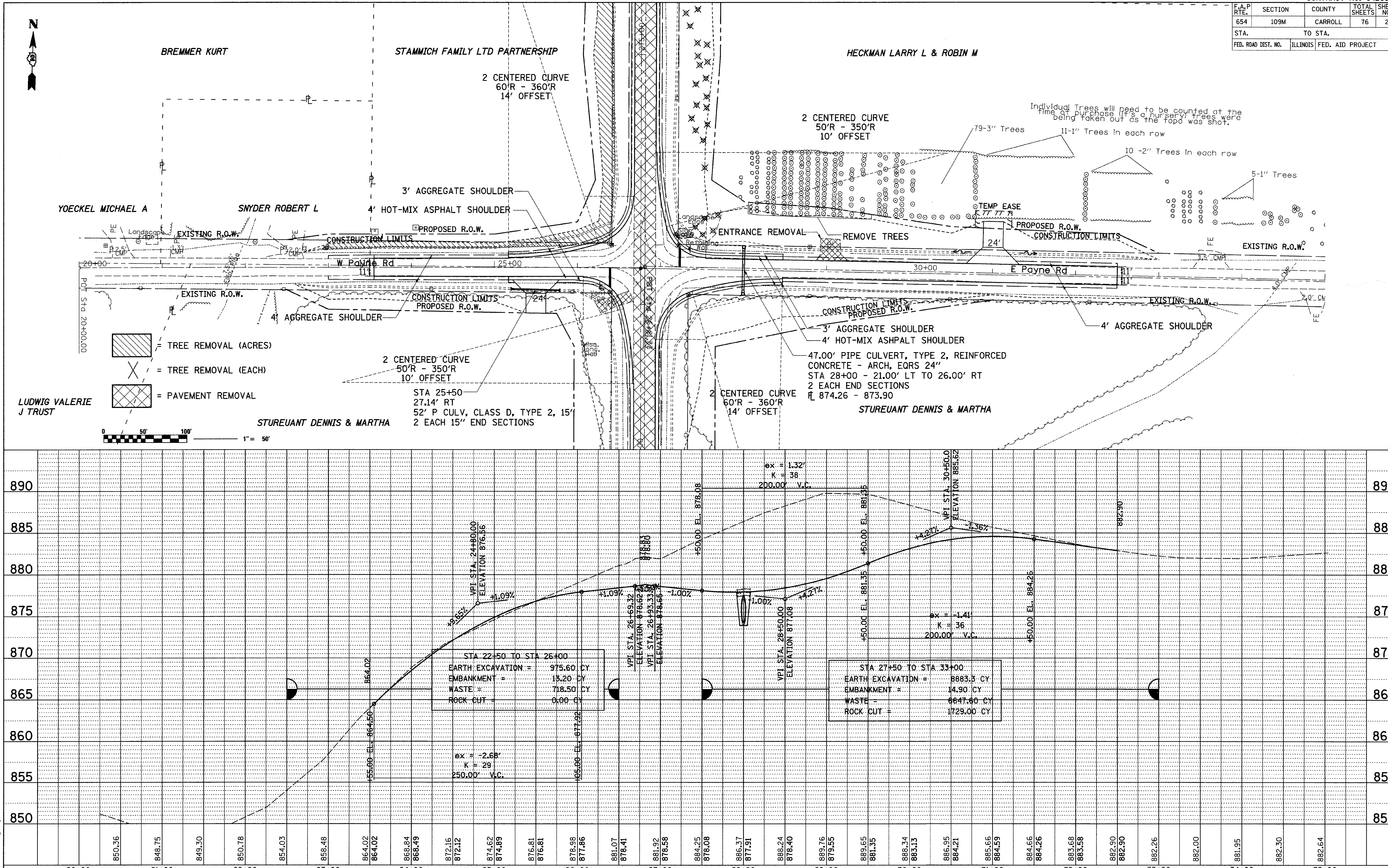


PLOT DATE = Thu Dec 13 14:58:17 2007
USER NAME = goffjl

IL RTE 73

CONTRACT NO. 64B89

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
654	109M	CARROLL	76	23
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



PLAN — NOTE BOOK NO. — SURVEYED / PLOTTED / ALIGNMENT CHECKED / R.O.W. CHECKED / CADD FILE NAME — BY — DATE

PROFILE — NOTE BOOK NO. — SURVEYED / PLOTTED / GRADES CHECKED / B.M. NOTED / STRUCTURE NOTATIONS CHKD — BY — DATE

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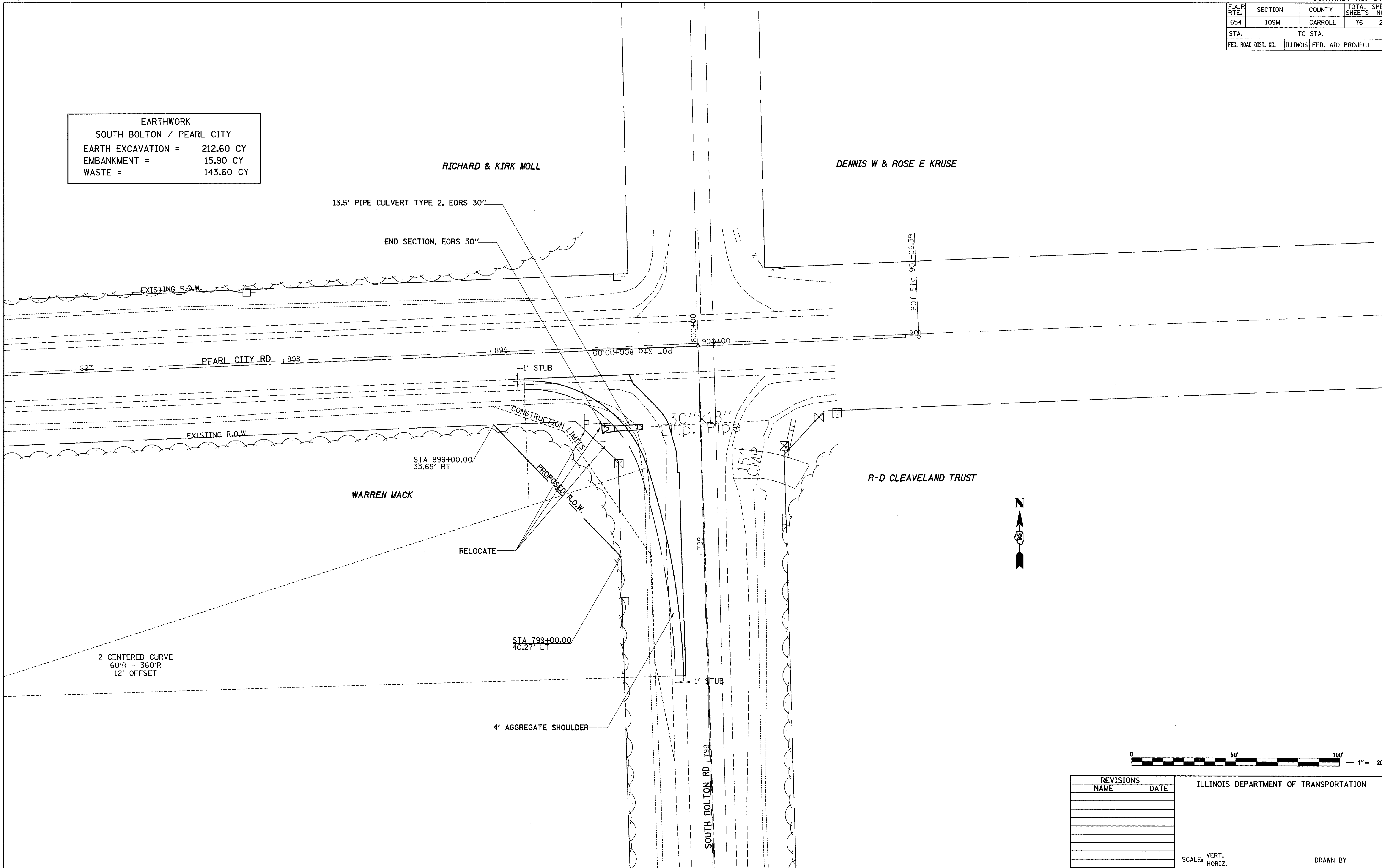
USER NAME = goffjl

PAYNE RD

CONTRACT NO. 64B89

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
654	109M	CARROLL	76	24
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

EARTHWORK	
SOUTH BOLTON / PEARL CITY	
EARTH EXCAVATION =	212.60 CY
EMBANKMENT =	15.90 CY
WASTE =	143.60 CY



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USER NAME = goffjl

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NAME	DATE

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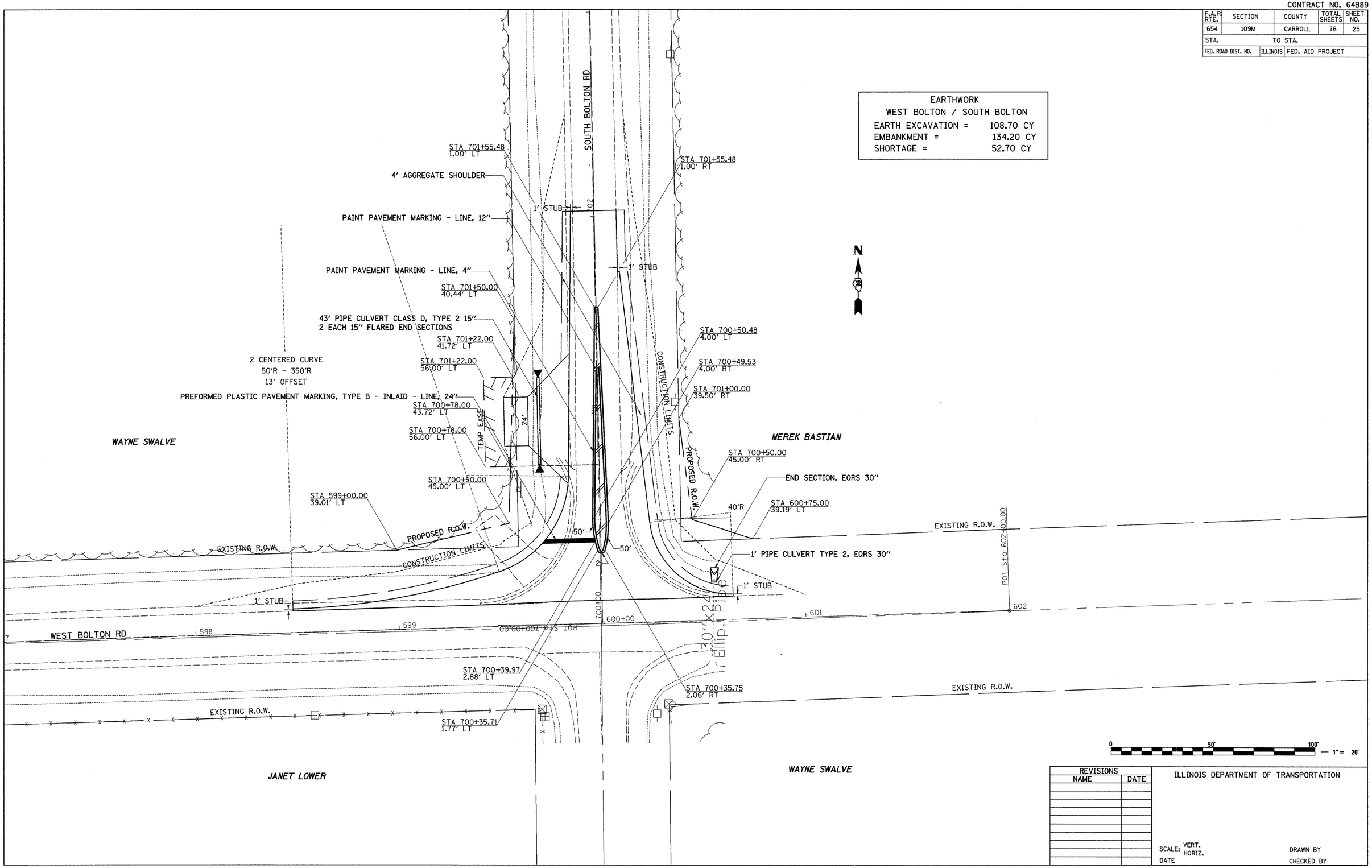
SOUTH BOLTON RD & PEARL CITY RD

CONTRACT NO. 64B89

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
654	109M	CARROLL	76	25
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

EARTHWORK	
WEST BOLTON / SOUTH BOLTON	
EARTH EXCAVATION =	108.70 CY
EMBANKMENT =	134.20 CY
SHORTAGE =	52.70 CY



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USER NAME = goff.jl

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

SCALE: VERT.
HORIZ.
DATE

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CHECKED BY

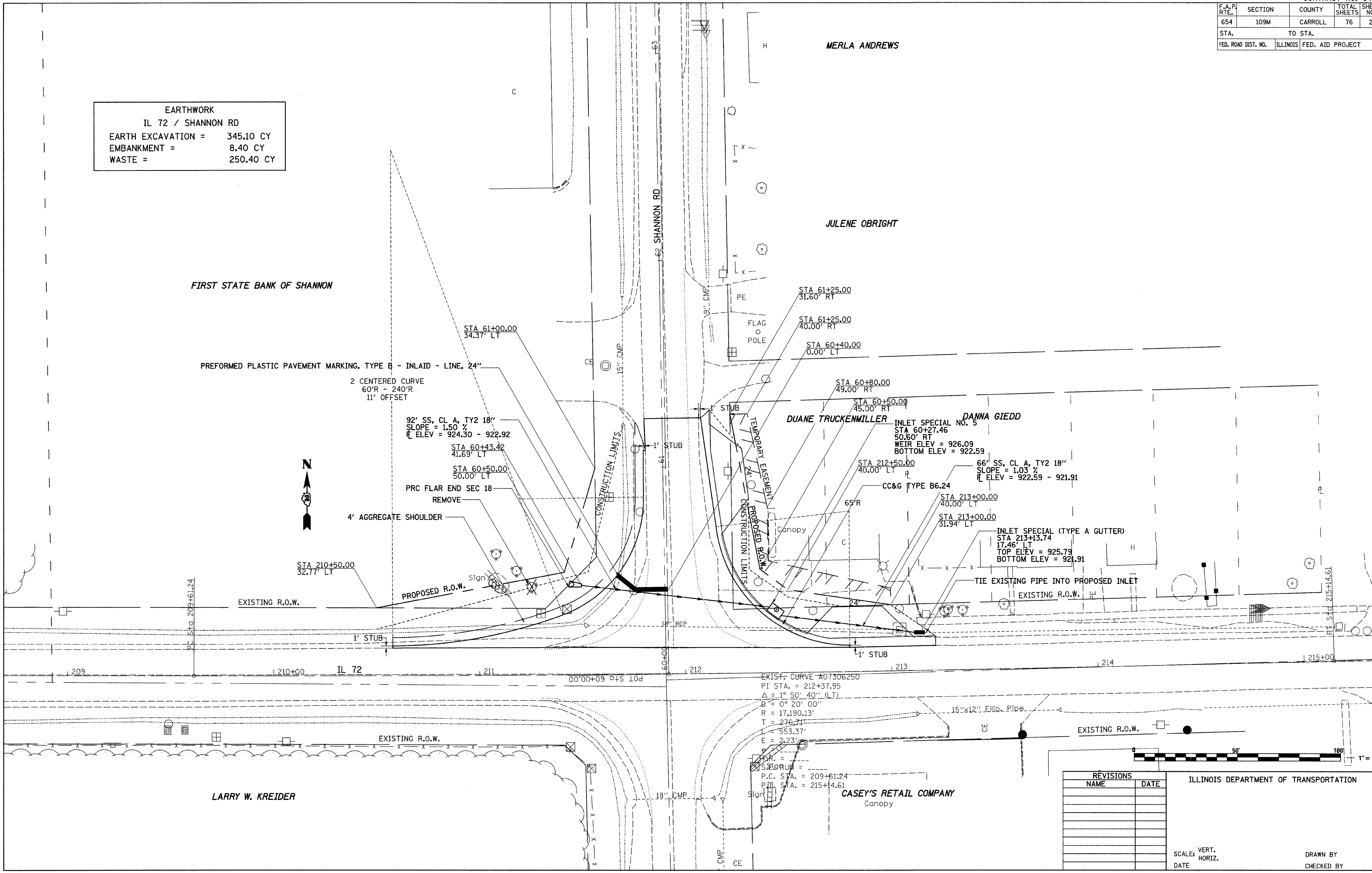
WEST BOLTON RD & SOUTH BOLTON RD

CONTRACT NO. 64B89

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
654	109M	CARROLL	76	26
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

EARTHWORK
IL 72 / SHANNON RD

EARTH EXCAVATION =	345.10 CY
EMBANKMENT =	8.40 CY
WASTE =	250.40 CY



MERLA ANDREWS
JULENE OBRIGHT
FIRST STATE BANK OF SHANNON
SHANNON RD
DUANE TRUCKENMILLER
DANNA GIEDD
LARRY W. KREIDER
CASEY'S RETAIL COMPANY
Canopy
N
STA 61+00.00 34.37' LT
PREFORMED PLASTIC PAVEMENT MARKING, TYPE B - INLAID - LINE, 24"
2 CENTERED CURVE 60'R - 240'R 11' OFFSET
92' SS, CL A, TY2 18" SLOPE = 1.50 % FL ELEV = 924.30 - 922.92
STA 60+43.42 41.69' LT
STA 60+50.00 50.00' LT
PRC FLAR END SEC 18
REMOVE
4' AGGREGATE SHOULDER
STA 210+50.00 32.77' LT
PROPOSED R.O.W.
EXISTING R.O.W.
1' STUB
CONSTRUCTION LIMITS
TEMPORARY EASEMENT
PROPOSED R.O.W.
STA 61+25.00 31.60' RT
STA 61+25.00 40.00' RT
STA 60+40.00 0.00' LT
STA 60+80.00 49.00' RT
STA 60+50.00 45.00' RT
INLET SPECIAL NO. 5 STA 60+27.46 50.60' RT WEIR ELEV = 926.09 BOTTOM ELEV = 922.59
STA 212+50.00 40.00' LT
66' SS, CL A, TY2 18" SLOPE = 1.03 % FL ELEV = 922.59 - 921.91
CC&G TYPE B6.24
65'R
STA 213+00.00 40.00' LT
STA 213+00.00 31.94' LT
INLET SPECIAL (TYPE A GUTTER) STA 213+13.74 17.46' LT TOP ELEV = 925.79 BOTTOM ELEV = 921.91
TIE EXISTING PIPE INTO PROPOSED INLET
IL 72
POT Sta 60+00.00
PC Sta 209+61.24
PT Sta 215+14.61
EXIST. CURVE A07306250
PI STA. = 212+37.95
Δ = 1° 50' 40" (LT)
D = 0° 20' 00"
R = 17,190.13'
T = 276.71'
L = 553.37'
E = 2.23'
P.C. STA. = 209+61.24
P.T. STA. = 215+14.61
15"x12" Ellip. Pipe
18" RCP
18" CMP
15" CMP
FLAG POLE
Sign

PLOT DATE = Thu Dec 13 14:50:59 2007
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USER NAME = gotfil

REVISIONS	
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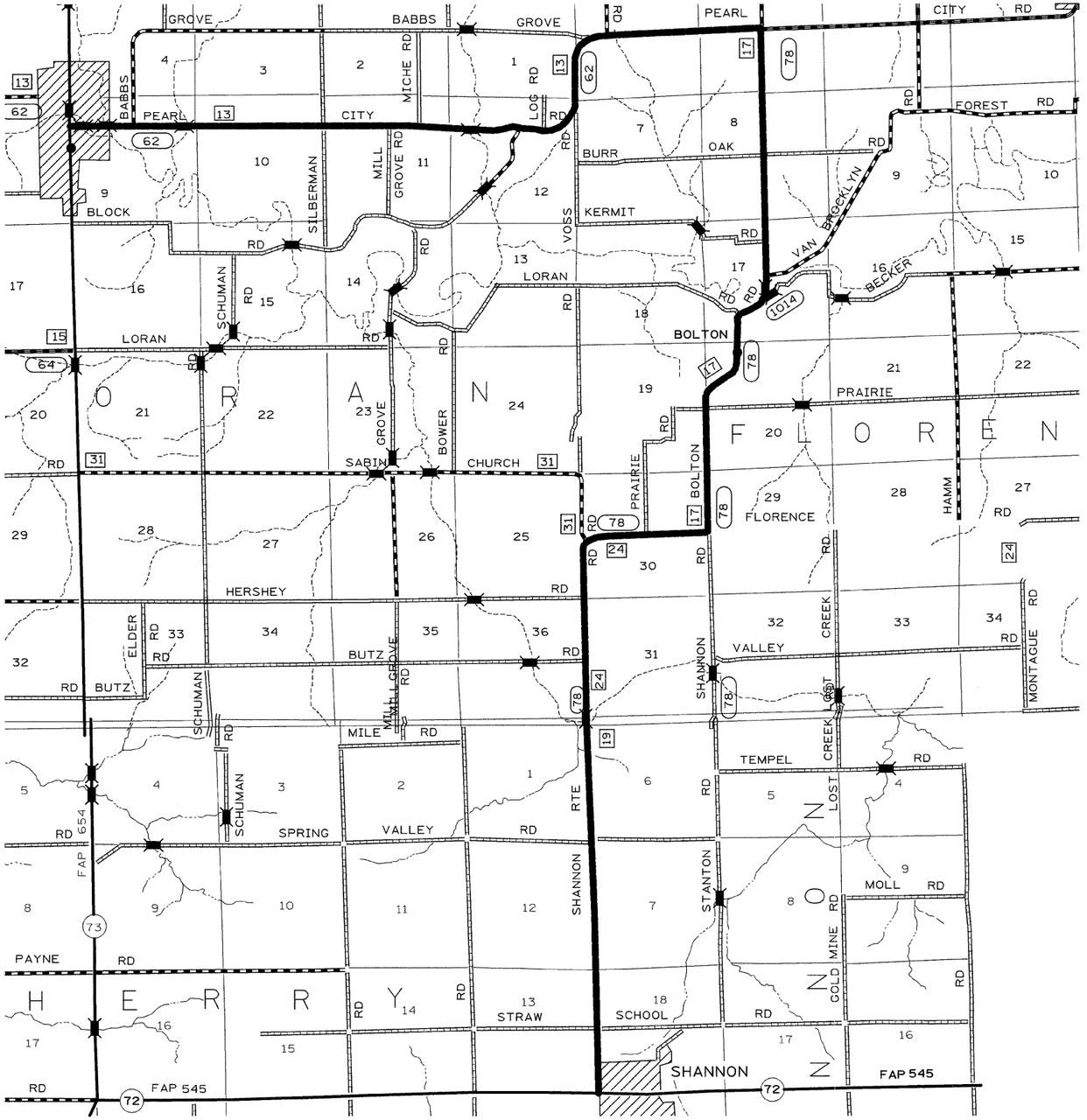
IL 72 & SHANNON RD

CONTRACT NO. 64B89

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
654	109M	CARROLL	76	27
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

DETOUR MAP



= DETOUR ROUTE

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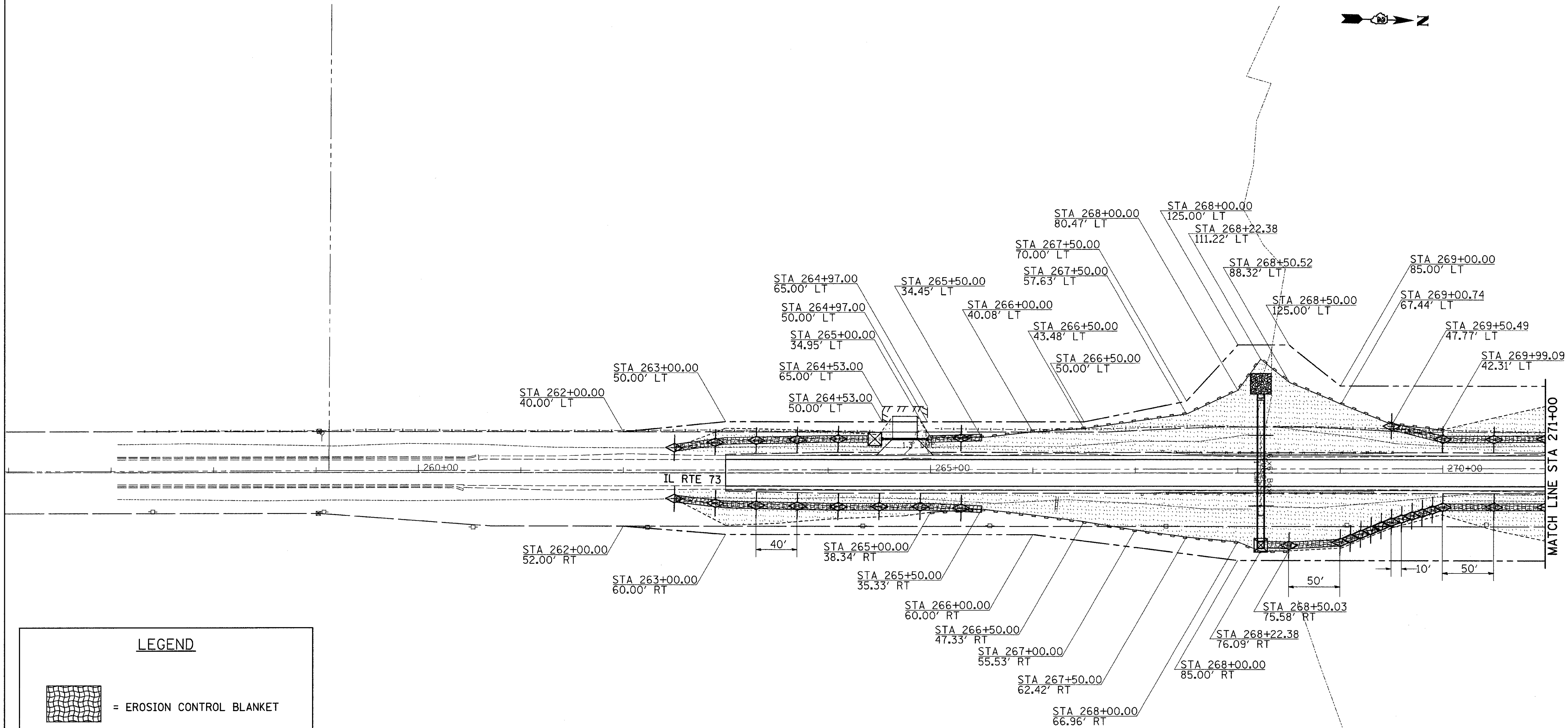
DETOUR MAP

CONTRACT NO. 64B89

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
654	109M	CARROLL	76	28
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

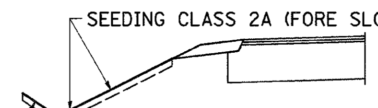
R.O.W., EROSION CONTROL, & SEEDING DETAILS



LEGEND

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

SEEDING DETAIL



0 50' 100' 1" = 50'

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

SCALE: VERT. HORIZ.
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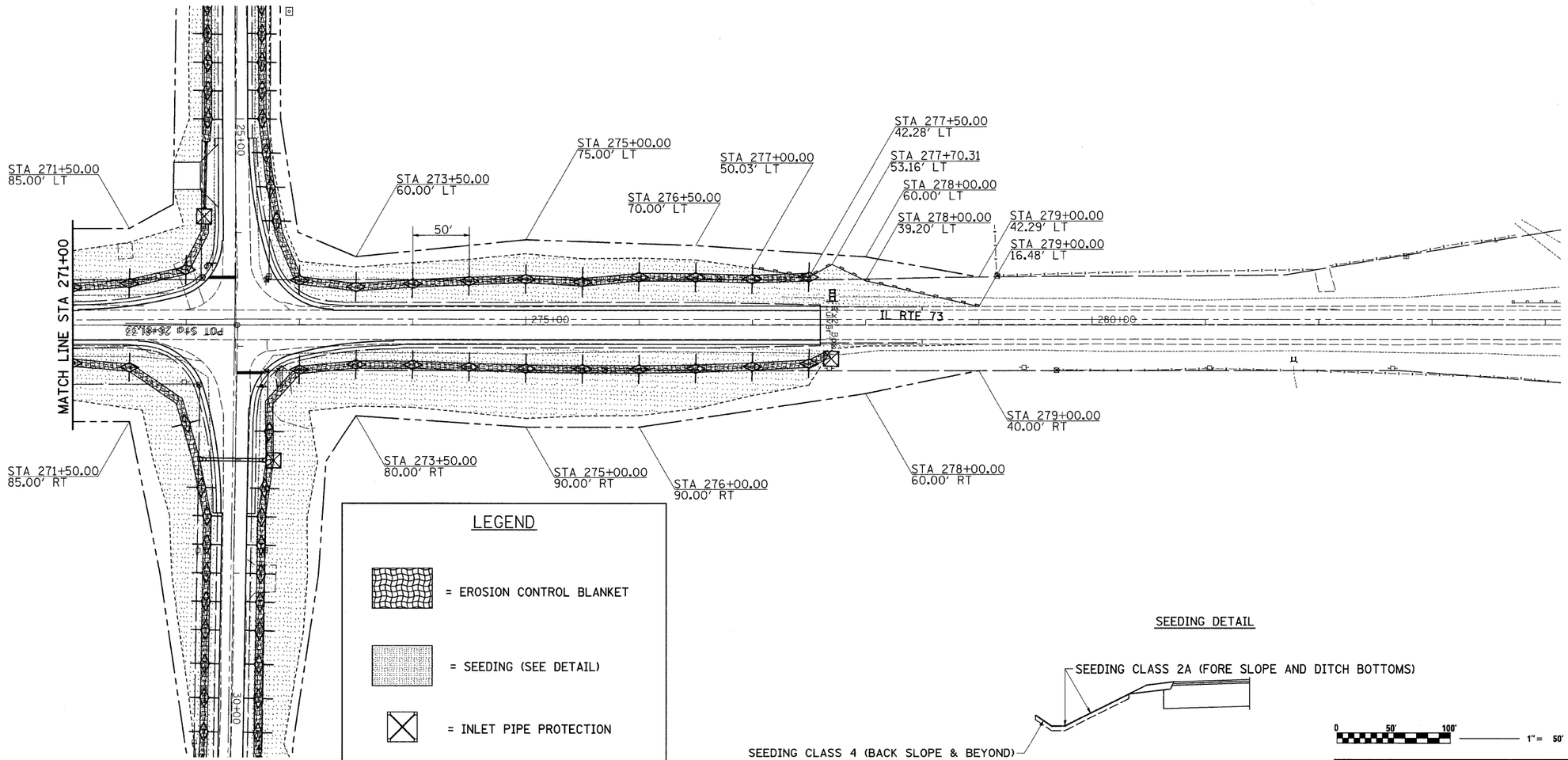
USER NAME = goff.j

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

CONTRACT NO. 64B89

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
654	109M	CARROLL	76	29
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

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



LEGEND

= EROSION CONTROL BLANKET

= SEEDING (SEE DETAIL)

= INLET PIPE PROTECTION

= PERIMETER EROSION BARRIER

= TEMPORARY DITCH CHECK

SEEDING DETAIL

0 50' 100' 1"= 50'

REVISIONS NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

SCALE: VERT. HORIZ.
DATE

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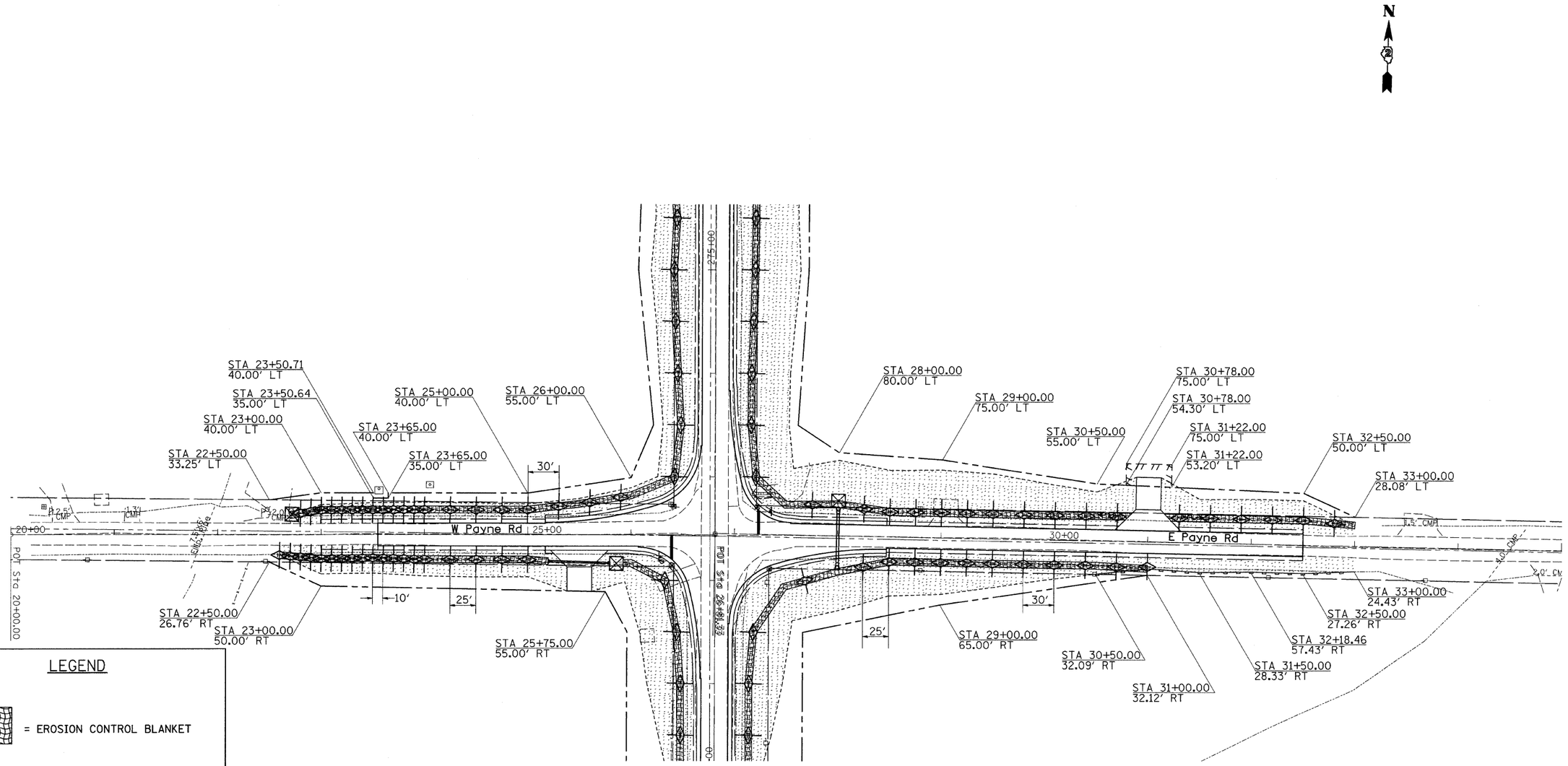
R.O.W., EROSION CONTROL, & SEEDING DETAILS

CONTRACT NO. 64B89

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
654	109M	CARROLL	76	30
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

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



LEGEND

= EROSION CONTROL BLANKET

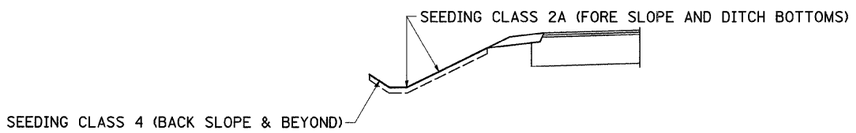
= SEEDING (SEE DETAIL)

= INLET PIPE PROTECTION

= PERIMETER EROSION BARRIER

= TEMPORARY DITCH CHECK

SEEDING DETAIL



0 50' 100' — 1" = 50'

REVISIONS NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

SCALE: VERT. HORIZ.

DATE

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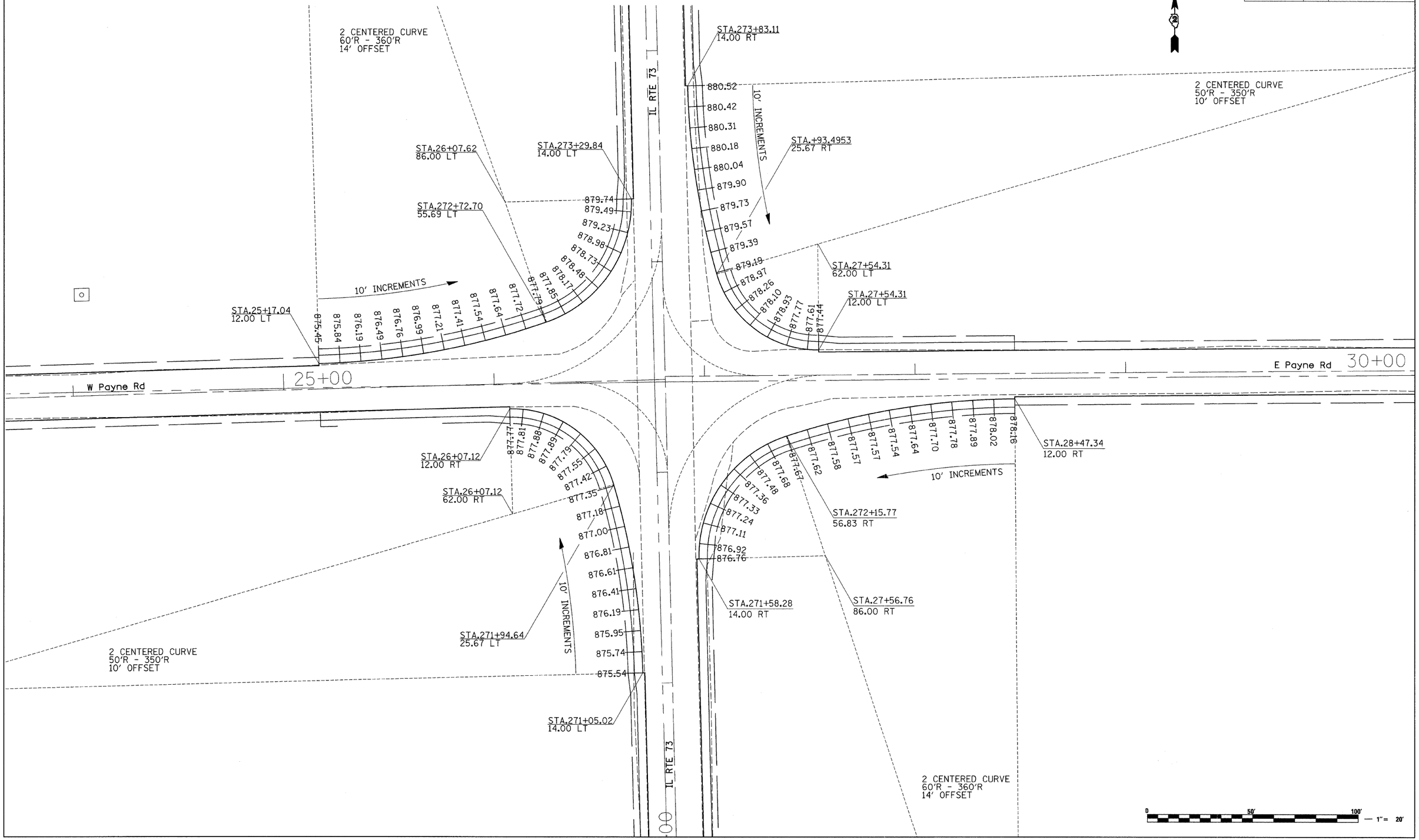
R.O.W., EROSION CONTROL, & SEEDING DETAILS

CONTRACT NO. 64B89

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
654	109M	CARROLL	76	31
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

PAVEMENT ELEVATION DETAILS



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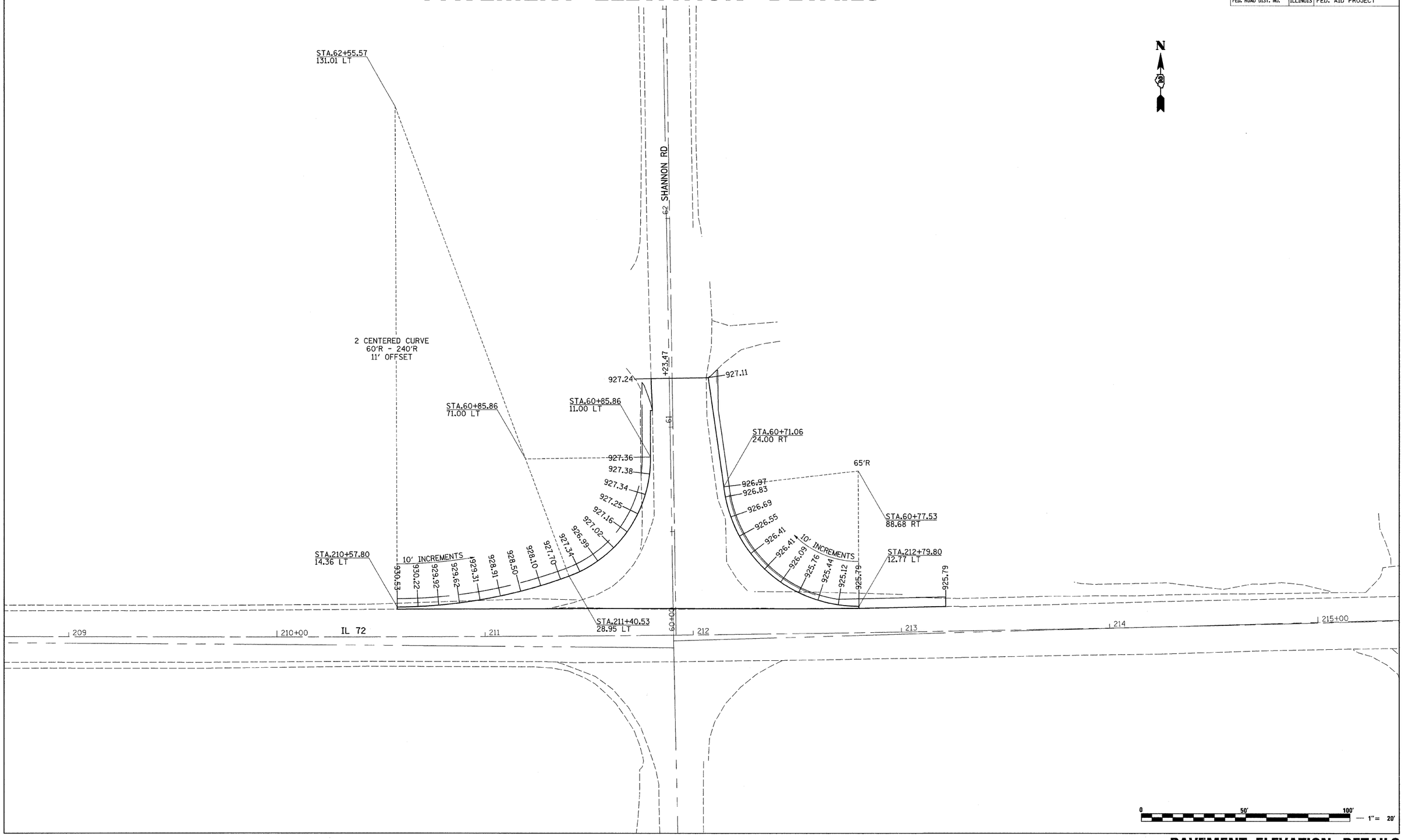
PAVEMENT ELEVATION DETAILS

CONTRACT NO. 64B89

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
654	109M	CARROLL	76	32
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

PAVEMENT ELEVATION DETAILS



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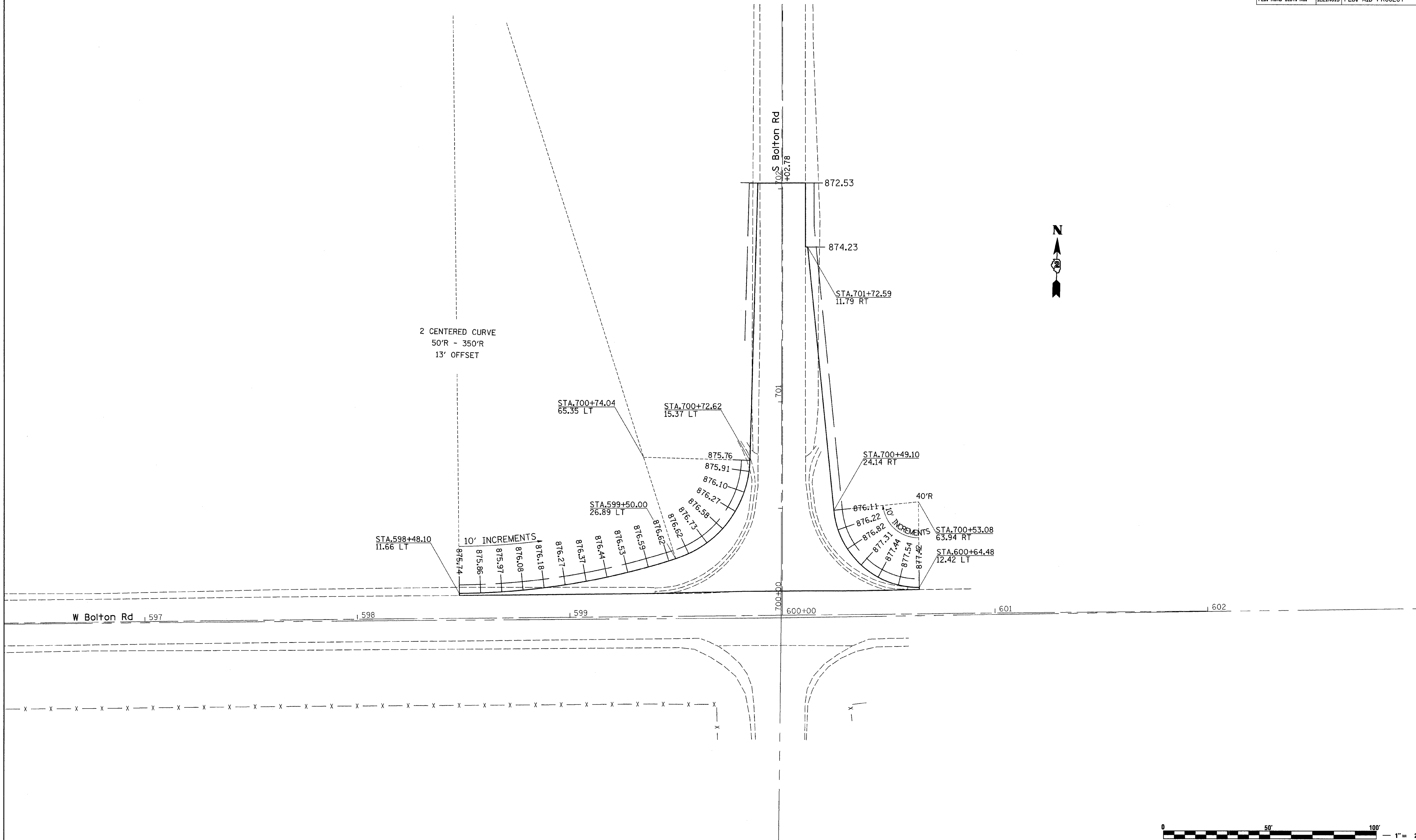
CONTRACT NO. 64B89

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
654	109M	CARROLL	76	33
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

PAVEMENT ELEVATION DETAILS



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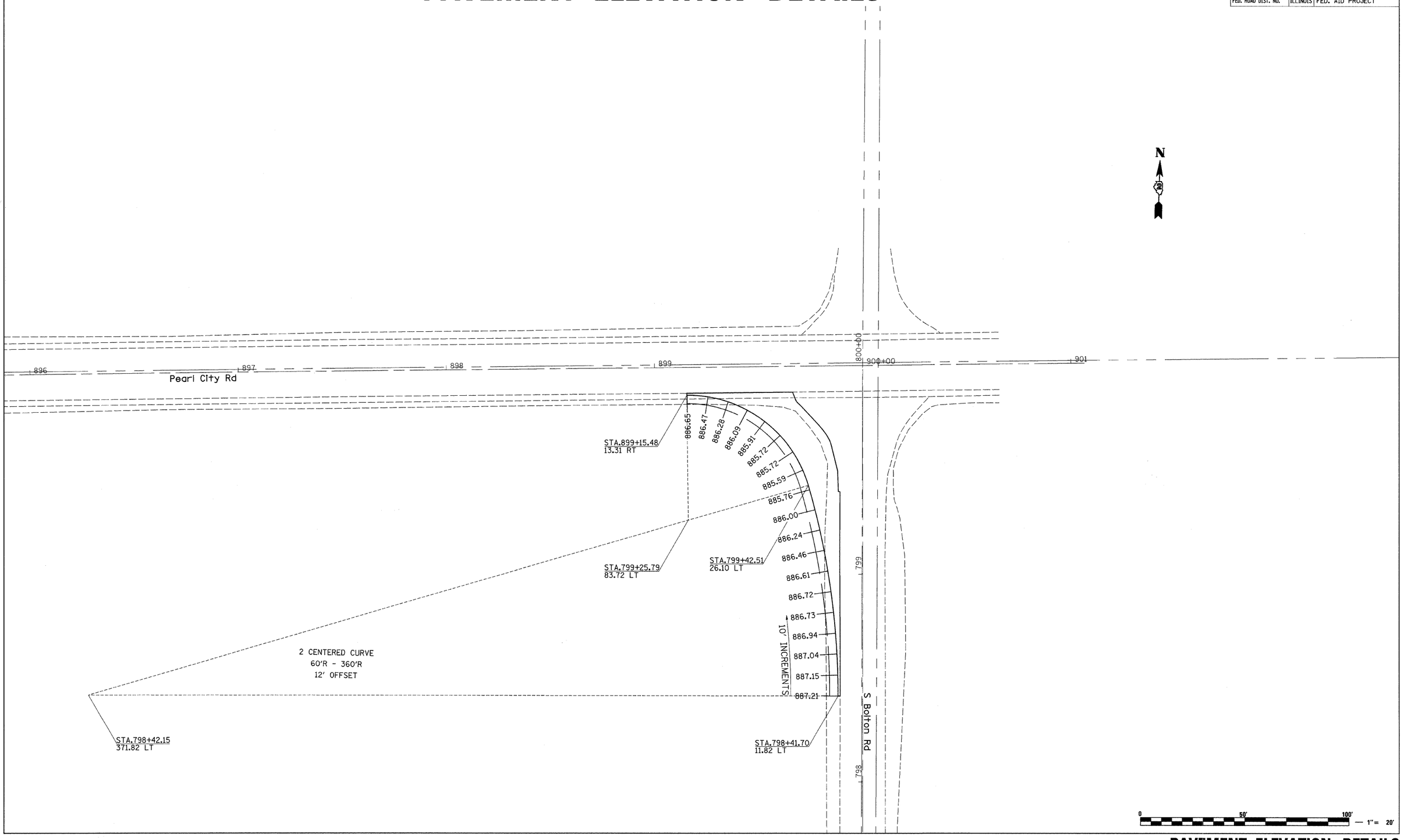
CONTRACT NO. 64B89

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
654	109M	CARROLL	76	34
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

PAVEMENT ELEVATION DETAILS



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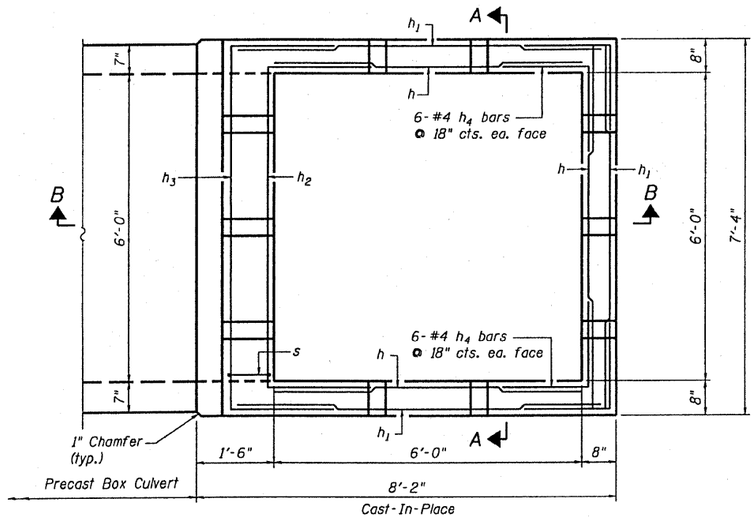
PAVEMENT ELEVATION DETAILS

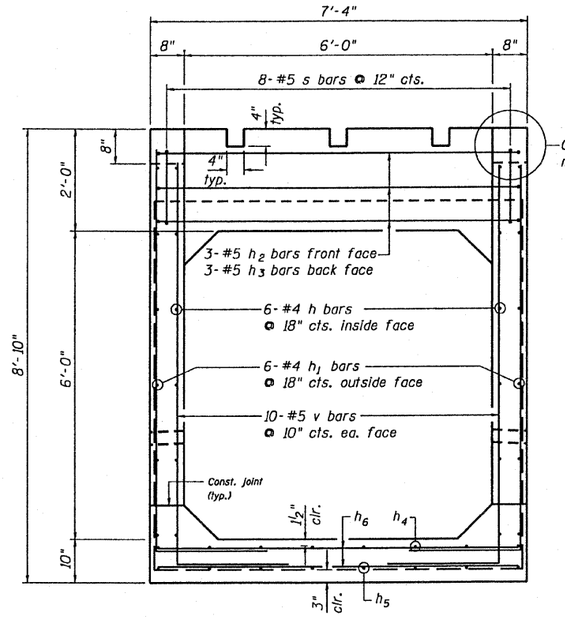
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
654	109 M	CARROLL	76	35
STA.	TO STA.			
FED. ROAD DIST. NO. -	ILLINOIS	FED. AID PROJECT		

CONTRACT # 64B89

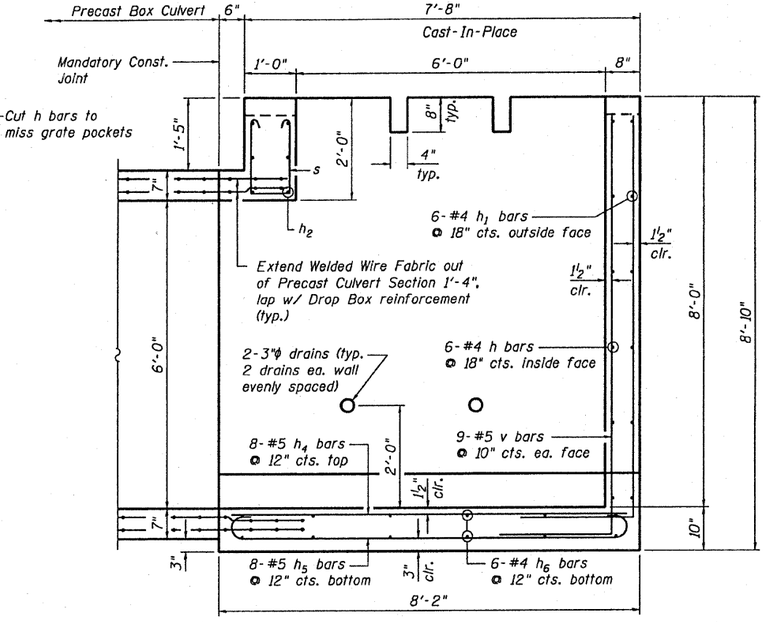
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION



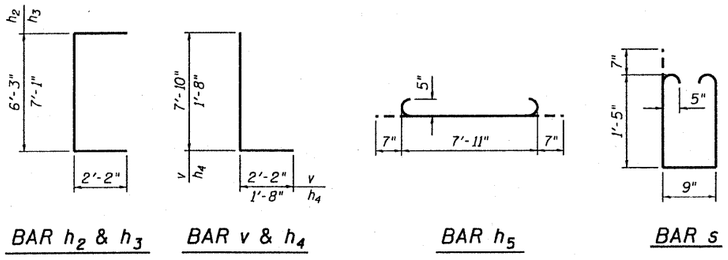
PLAN



SECTION A-A



SECTION B-B



BAR h_2 & h_3 BAR v & h_4 BAR h_5 BAR s

BILL OF MATERIAL

(For information only)

Bar	No.	Size	Length	Shape
h	18	#4	6'-0"	
h_1	18	#4	7'-1"	
h_2	3	#5	10'-7"	
h_3	3	#5	11'-5"	
h_4	24	#4	3'-4"	
h_5	8	#5	7'-11"	
h_6	8	#4	9'-1"	
h_7	12	#4	7'-1"	
s	8	#5	4'-9"	
v	58	#5	10'-0"	
Concrete Structures			Cu. Yd.	6.9
Reinforcement Bars, Epoxy Coated			Pound	1,100

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 34.

STATE OF ILLINOIS
SCOTT D. SANFORD
081-005468
LICENSED SPRINGFIELD STRUCTURAL ENGINEER
12-12-07
Expires 11/30/08

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

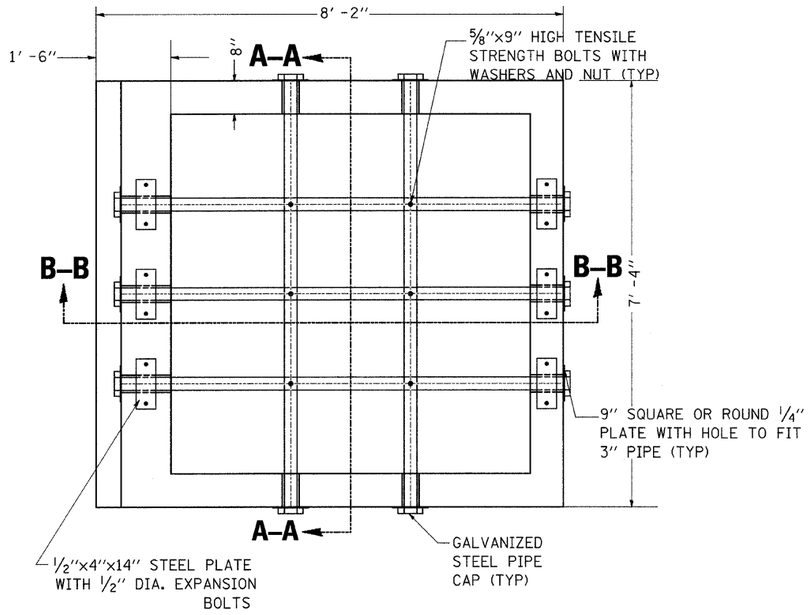
DROP BOX NO. 1
REINFORCEMENT DETAILS
FAP ROUTE 654 (IL ROUTE 73)
SECTION 109 M
CARROLL COUNTY

CONTRACT NO. 64B89

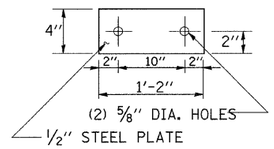
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
654	109M	CARROLL	76	36
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

DROP BOX NO. 1

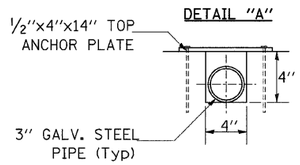
PLAN



TOP ANCHOR PLATE



DETAIL "A"



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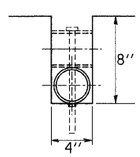
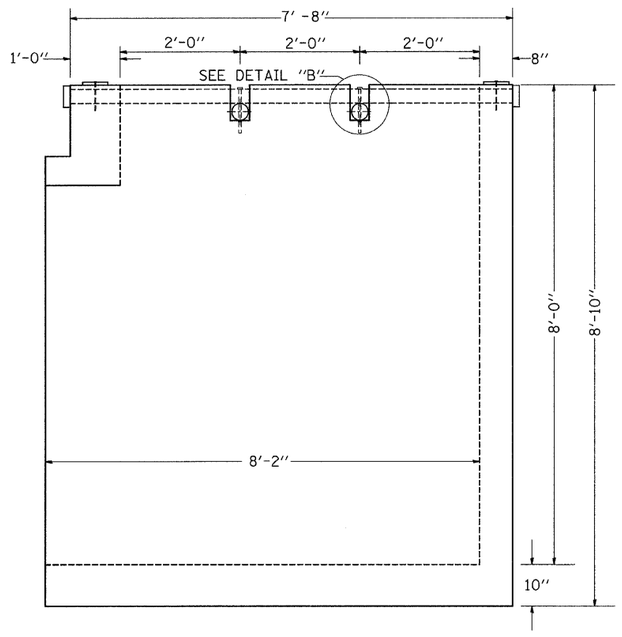


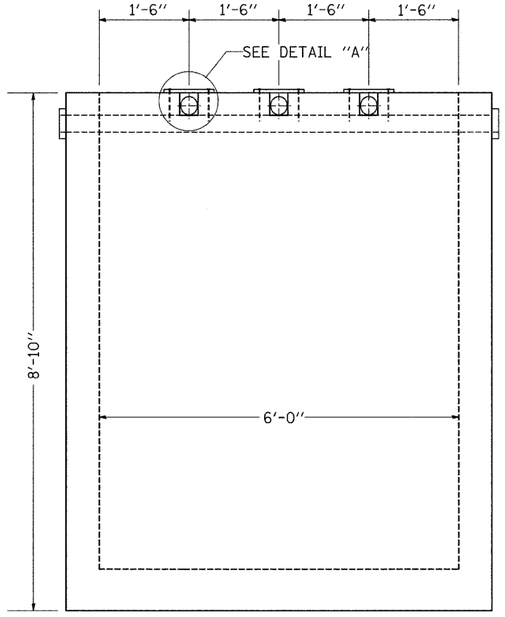
BILL OF MATERIAL

DESCRIPTION	UNIT	QTY
5/8″ X 9″ GALV. STEEL BOLTS	EACH	18
3″ GALV. STEEL PIPE 3″ GALV. STEEL PIPE	@2 @3	7′-8″ 8′-0″
3″ GALV. PIPE CAPS	EACH	10
1/2″ X 4″ X 14″ GALV. PLATE	EACH	6
1/4″ GALV STEEL PLATE (9″ NOMINAL)	EACH	10

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. 1 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

Reinforement 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.

CONTRACT NO. 64B89

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
654	109M	CARROLL	76	37
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

SOIL BORING LOGS

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

SOIL BORING LOG

Date 11/26/07

P92-009-06 IL 73 box culvert, 500' S. of Payne Road

ROUTE FAP 654 DESCRIPTION LOGGED BY W. Garza

SECTION 109 M LOCATION Cherry Grove Twp. - 16 NW, SEC. , TWP. 25N, RNG. 6E

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

STRUCT. NO.
Station 268+23

BORING NO. B-1
Station 267+79
Offset 39.00ft Lt CL
Ground Surface Elev. 860.00 ft

Surface Water Elev. ft
Stream Bed Elev. 848.30 ft

Groundwater Elev.:
First Encounter ft
Upon Completion ft
After Hrs. ft

	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
DRY brown SILTY CLAY LOAM			0.0 P	18.0
858.50				
MEDIUM tan weathered LIMESTONE		6		
		8		
856.50		10		
VERY DENSE tan weathered LIMESTONE	-5	20		
		26		
854.00		27		
VERY DENSE tan weathered LIMESTONE	852.50	100/1"		
End of Boring				
	-10			
	-15			
	-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

Date 11/26/07

P92-009-06 IL 73 box culvert, 500' S. of Payne Road

ROUTE FAP 654 DESCRIPTION LOGGED BY W. Garza

SECTION 109 M LOCATION Cherry Grove Twp. - 16 NW, SEC. , TWP. 25N, RNG. 6E

COUNTY Carroll DRILLING METHOD Solid Stem Auger HAMMER TYPE CME-45 Automatic

STRUCT. NO.
Station 268+23

BORING NO. B-2
Station 268+49
Offset 37.00ft Rt CL
Ground Surface Elev. 853.80 ft

Surface Water Elev. ft
Stream Bed Elev. 848.30 ft

Groundwater Elev.:
First Encounter ft
Upon Completion ft
After Hrs. ft

	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
STIFF brown SILTY LOAM			1.3 P	24.0
851.80				
MEDIUM brown SILTY LOAM			0.5 P	29.0
850.30				
SOFT brown SILTY LOAM	-5		0.3 P	36.0
847.80				
MEDIUM brown SILTY CLAY LOAM			0.8 P	30.0
845.30				
STIFF light brown SILTY CLAY LOAM	-10		1.1 P	25.0
842.80				
MEDIUM tan LOAM with LIMESTONE fragments			0.8 P	20.0
840.80 tan weathered LIMESTONE				
Auger Refusal at 16.5'	-15			
837.30				
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)

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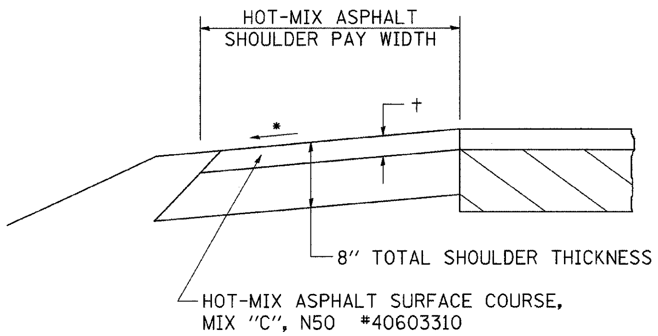
HOT-MIX ASPHALT SHOULDER



† = SEE TYPICAL SECTIONS FOR THICKNESS

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

GENERAL NOTES

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

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

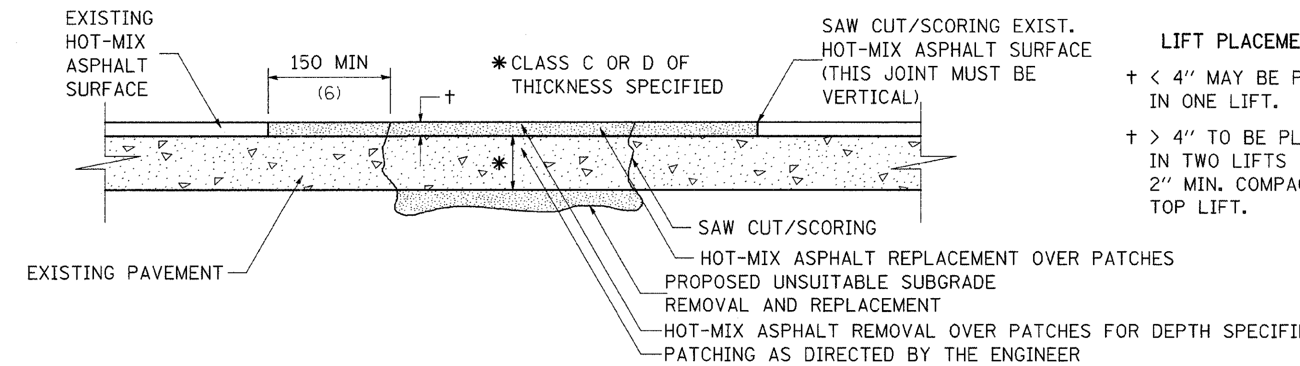
REMOVAL OF MATERIAL FOR PLACEMENT OF THE HOT-MIX ASPHALT SHOULDER TO BE PAID FOR IN UNITS FOR EXCAVATING AND GRADING EXISTING SHOULDERS OR IN CUBIC YARDS FOR EARTH EXCAVATION OR EARTH EXCAVATION WIDENING.

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

HOT-MIX ASPHALT SHOULDER 23.4a

REVISED 10-06-06

PAVEMENT PATCHING FOR HOT-MIX ASPHALT SURFACED PAVEMENT



LIFT PLACEMENT:

† < 4" MAY BE PLACED IN ONE LIFT.

† > 4" TO BE PLACED IN TWO LIFTS WITH 2" MIN. COMPACTED TOP LIFT.

SEQUENCE OF CONSTRUCTION:

1. REMOVE THE EXISTING HOT-MIX ASPHALT SURFACE.
2. RESIDENT ENGINEER WILL DETERMINE IF LOCATION IS TO BE PATCHED OR TO ONLY REPLACE HOT-MIX ASPHALT SURFACE.
3. REMOVE AND REPLACE FULL DEPTH PATCHES AT LOCATIONS DIRECTED BY THE ENGINEER.
4. REPLACE HOT-MIX ASPHALT SURFACE OVER FULL DEPTH PATCHES AND AT LOCATIONS OF HOT-MIX ASPHALT SURFACE REMOVAL.

GENERAL NOTES:

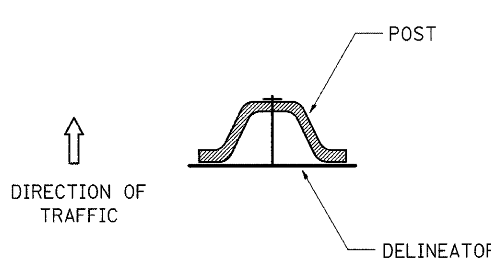
1. THE WIDTH OF THE FULL DEPTH PATCH OVER A TRENCH SHALL BE 300 (12) WIDER ON EACH SIDE OF THE TRENCH.
2. FOR BASIS OF PAYMENT: SEE SPECIAL PROVISION "PATCHING WITH HOT-MIX ASPHALT OVERLAY REMOVAL".

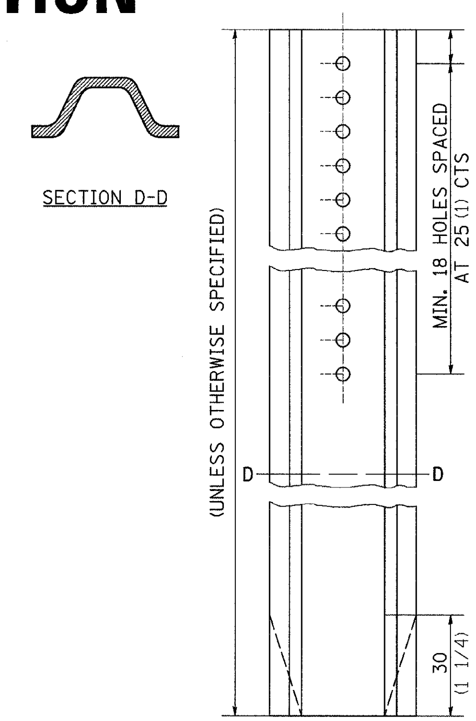
ALL DIMENSIONS ARE IN MILLIMETERS (INCHES) UNLESS OTHERWISE NOTED.

PAVEMENT PATCHING FOR HOT-MIX ASPHALT SURFACED PAVEMENT 32.4

REVISED 10-10-06

DELINEATOR AND POST ORIENTATION





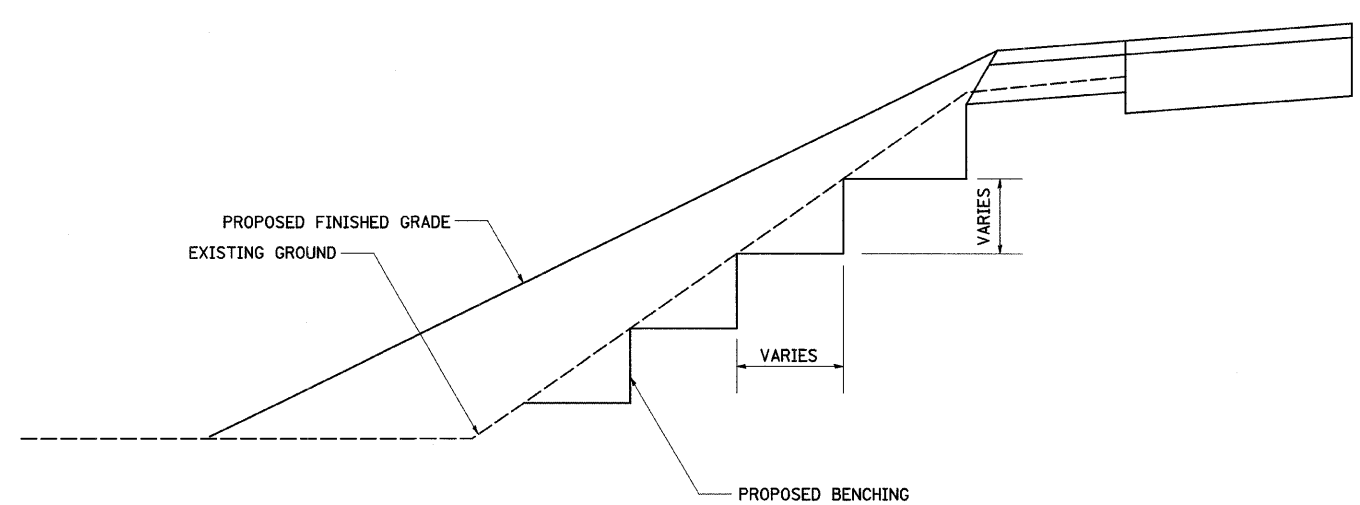
DELINEATORS SHALL BE INSTALLED ACCORDING TO STANDARD 635001 EXCEPT THAT THE POST SHALL BE ROTATED 180° . THE POST WILL HAVE THE WIDE SIDE FACING TRAFFIC AND THE DELINEATOR ATTACHECD AS SHOWN ABOVE.

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

DELINEATOR AND POST ORIENTATION 37.4

REVISED 1-31-00

TYPICAL BENCHING ON EXISTING EMBANKMENT



TYPICAL BENCHING ON EXISTING EMBANKMENT 50.4

REVISED 2-22-06

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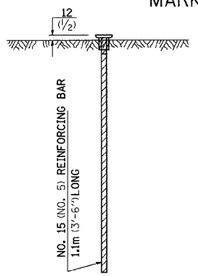
REFERENCE = REF

CONTRACT NO. 64889

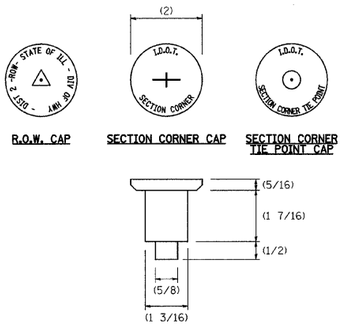
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
654	109M	CARROLL	76	39
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

LAND SECTION & REFERENCE MARKERS

REFERENCE MARKER & LAND SECTION MARKER

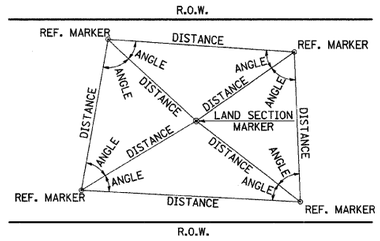


SECTION



CAP DETAIL

METHOD OF REFERENCING MARKERS



- 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.

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.

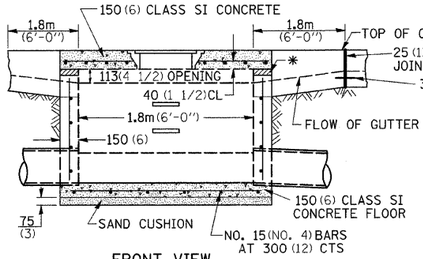
METAL CAPS SHALL BE PLACED ON TOP OF THE REINFORCEMENT BAR. THERE ARE 3 TYPES OF CAPS, ONE FOR THE RIGHT-OF-WAY CORNERS, ONE FOR THE SECTION CORNERS AND ONE FOR THE SECTION CORNER TIE POINTS. THE CAPS WILL BE SUPPLIED BY IDOT, CALL CHIP CORDELL (815) 284-5370 A MINIMUM OF ONE WEEK BEFORE THE CAPS ARE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

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

LAND SECTION & REFERENCE MARKERS 63.4

REVISED 4-22-05

INLET SPECIAL NO. 5



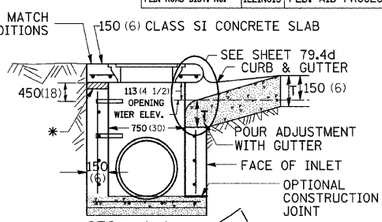
FRONT VIEW

STEPS AT 300 (12) TO 400 (16) CTS.

* THE WALL ADJUSTMENTS SHALL BE MADE WITH CONCRETE BUILDING BRICK OR CLASS SI CONCRETE.

THE HEIGHT OF THE BOX MAY BE CONSTRUCTED 150 (6) SHORT TO ALLOW FOR FIELD ADJUSTMENTS.

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



SEC. A-A

NOTES

SEE STANDARD 602701 FOR DETAILS OF STEPS.

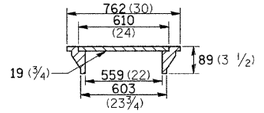
25 (1) PREFORMED EXPANSION JOINTS AS SHOWN SHALL BE PROVIDED ON EACH SIDE OF INLET.

CLASS SI CONCRETE OR PRECAST CONCRETE SHALL BE USED TROUGHOUT.

THE SIDE WALLS MAY BE BUILT AS PRECAST SEGMENTAL SECTIONS.

REINFROCEMENT FOR INLET SPECIAL NO. 5 SHALL BE ACCORDING TO DISTRICT STANDARD 79.4e

LIGHT WEIGHT MANHOLE CASTING



TOTAL WEIGHT 73 KG. (160 LBS.)

STEPS SHALL BE OMITTED WHEN DEPTH OF INLET IS LESS THAN 1.5 m (5 ft.)

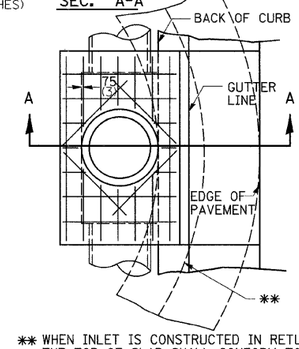
THE INLET SHALL BE CAST IN PLACE OR PRECAST.

EXCEPT AS NOTED HEREON INLET SPECIAL NO. 5 SHALL BE CONSTRUCTED IN ACCORDANCE WITH SECTION 602 OF THE STANDARD SPECIFICATIONS.

THE CONTRACT UNIT PRICE EACH FOR INLET SPECIAL NO. 5 SHALL INCLUDE THE COST OF FURNISHING AND INSTALLING THE FRAME, LID, REINFORCEMENT BARS, FLOOR AND TOP SLABS, CAST IRON STEPS (IF USED).

THE CURB AND GUTTER WILL BE PAID FOR SEPARATELY AND WILL BE MEASURED THROUGH THE INLET.

THE CURB AND GUTTER ADJACENT TO AND 1.8m (6 FT) ON EITHER SIDE OF THE INLET SHALL BE CONSTRUCTED AS SHOWN WITH NO ADDITIONAL COMPENSATION FOR THE TRANSITION.

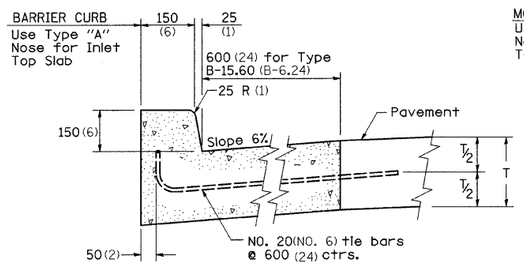


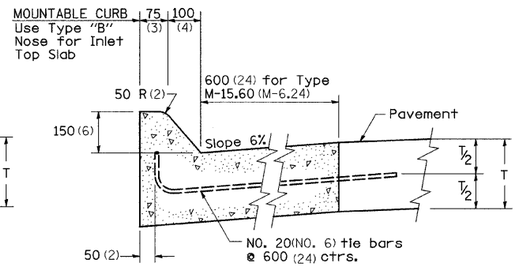
** WHEN INLET IS CONSTRUCTED IN RETURN, THE TOP OF SLAB SHALL CONFORM TO THE RADIUS OF THE RETURN.

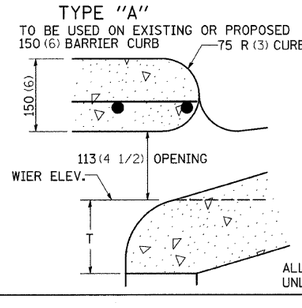
INLET SPECIAL NO. 5 79.4b

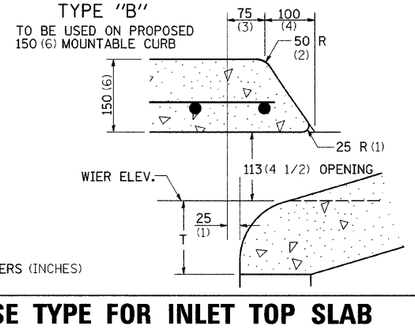
REVISED 4-4-05

NOSE TYPE FOR INLET TOP SLAB







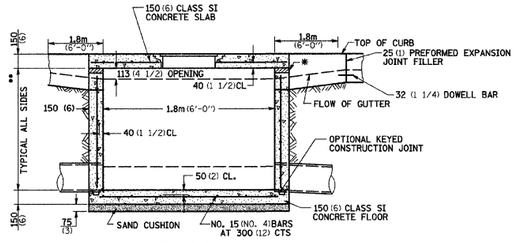


ALL DIMENSIONS ARE IN MILLIMETERS (INCHES) UNLESS OTHERWISE NOTED.

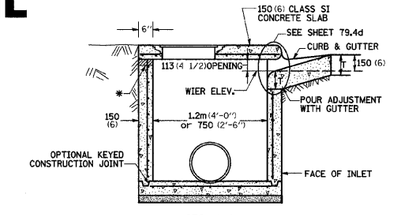
NOSE TYPE FOR INLET TOP SLAB 79.4d

REVISED 2-14-95

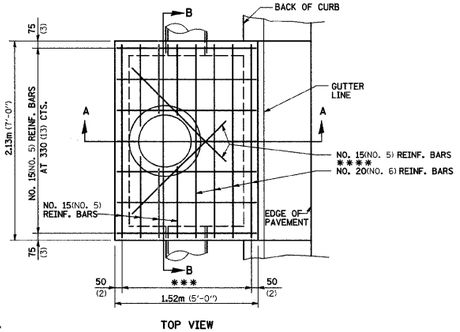
INLET SPECIAL NO. 3, 4, 5, 6 REINFORCEMENT DETAIL



SEC. B-B



SEC. A-A



TOP VIEW

* THE WALL ADJUSTMENTS SHALL BE MADE WITH CONCRETE BUILDING BRICK OR CLASS SI CONCRETE.

THE HEIGHT OF THE BOX MAY BE CONSTRUCTED 150(6) SHORT TO ALLOW FOR FIELD ADJUSTMENTS.

** 1.2m (4'-0") TO 2.4m (8'-0") - NO. 15 (NO. 5) REINF. BARS AT 300 (12) CTS. E.W.
2.4m (8'-0") TO 4.0m (13'-0") - NO. 15 (NO. 5) REINF. BARS AT 250 (10) CTS. E.W.
4.0m (13'-0") TO 4.6m (15'-0") - NO. 15 (NO. 5) REINF. BARS AT 200 (8) CTS. E.W.

*** 7 SPA. AT 200 mm (8") INLET SPECIAL * 3, 4
5 SPA AT 208 mm (7 5/8") INLET SPECIAL * 5, 6

**** 2 REBARS FOR INLET SPECIAL 3 & 4
4 REBARS FOR INELT SPECIAL 5 & 6

NOTES

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

TOP SLAB REINFORCEMENT TO BE EPOXY COATED BARS.

INLET SPECIAL NO. 3, 4, 5, 6 REINFORCEMENT DETAIL 79.4e

REVISED 4-4-05

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CONTRACT NO. 64B89

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
654	109M	CARROLL	76	40
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

LETTERING FOR NAME PLATE

STATION
BUILT 200 BY
STATE OF ILLINOIS
RTE. SEC.
FA PROJECT
LOADING HS 20
STR. NO.

SEE STD. 515001

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

LETTERING FOR NAME PLATE **89.4**

REVISED 10-15-04

TREE REPLACEMENT SCHEDULE

	SCIENTIFIC NAME	COMMON NAME	SIZE	UNIT	QUANTITY
	CELTIS OCCIDENTALIS	HACKBERRY	1 3/4" CALIPER BALLED AND BURLAPPED	EACH	10
	QUERCUS MACROCARPA	BUR OAK	1 3/4" CALIPER BALLED AND BURLAPPED	EACH	10
	AMELANCHIER CANADENSIS	SHADBLOWN SERVICEBERRY	4' HEIGHT, SHRUB FORM, BALLED AND BURLAPPED	EACH	15

MITIGATED TREES SHALL BE PLANTED ON THE JOBSITE. LAYOUT SHALL BE PERFORMED BY THE DISTRICT LANDSCAPE ARCHITECT. MULCH SHALL BE HARDWOOD WOOD CHIPS, 5 FOOT WIDTH, 4 INCHES THICK WITH WEED BARRIER FABRIC.

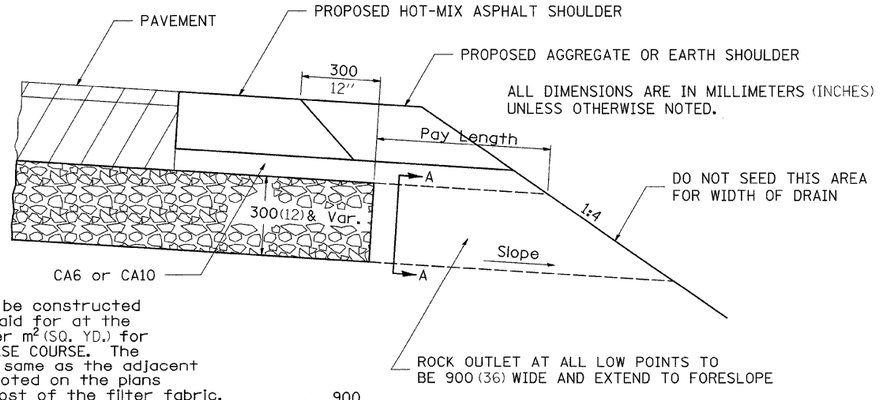
FOR QUESTIONS PLEASE CALL RICHARD MAGGI AT (815)-284-5404

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

TREE REPLACEMENT SCHEDULE **90.4**

REVISED 8-10-05

DRAIN FOR AGGREGATE BASE COURSE



SECTION A-A

NOTE: Slope same as shoulder with 2% min.

NOTES:

The rock outlets shall be constructed using CA7 and will be paid for at the contract unit price per m^2 (SQ. YD.) for DRAIN FOR AGGREGATE BASE COURSE. The thickness shall be the same as the adjacent sub-base material as noted on the plans and shall include the cost of the filter fabric. The Rock outlets will be measured in m^2 (SQ. YD.), the width being 900 (36) by the length shown above. The cost of the CA6 or CA10 under the shoulder shall be included in the contract unit price per m^2 (SQ. YD.) for SUB-BASE GRANULAR MATERIAL, TYPE A of the thickness specified. The filter fabric to be used shall conform to the filter fabric used for Riprap.

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X0325519

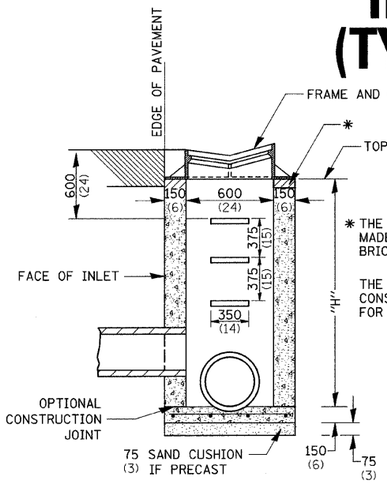
DRAIN FOR AGGREGATE BASE COURSE **96.4**

REVISED 10-10-06

CONTRACT NO. 64B89

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
654	109M	CARROLL	76	41
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

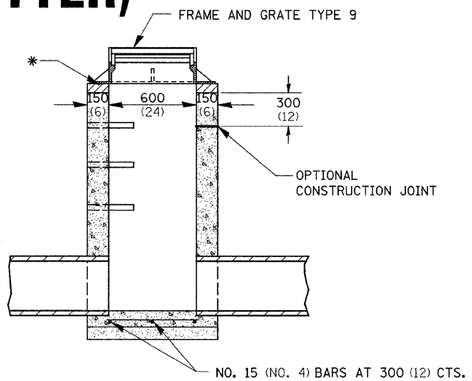
INLET SPECIAL (TYPE A GUTTER)

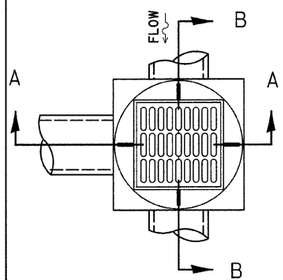


SEC. A-A

* THE WALL ADJUSTMENTS SHALL BE MADE WITH CONCRETE BUILDING BRICK OR CLASS SI CONCRETE.

THE HEIGHT OF THE BOX MAY BE CONSTRUCTED 150 (6) SHORT TO ALLOW FOR FIELD ADJUSTMENTS.





NOTES

SEE STANDARD 602701 FOR DETAILS OF STEPS.

EXCEPT AS NOTED HEREON INLET SPECIAL SHALL BE CONSTRUCTED IN ACCORDANCE WITH SECTION 602 OF THE STANDARD SPECIFICATIONS.

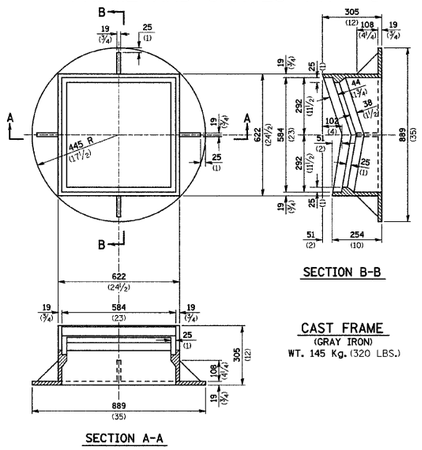
THE SIDE WALLS MAY BE BUILT AS PRECAST SEGMENTED SECTIONS.

ALL VOIDS AROUND PIPE ENTRANCE, BOTH INSIDE AND OUTSIDE, SHALL BE SEALED WITH MORTAR.

WEIGHT OF CAST IRON FRAME & GRATE = 200kg (440 LBS.).
STEPS SHALL BE OMITTED WHEN DEPTH OF "H" IS LESS THAN 1524 (60).

DETAIL OF FRAME & GRATE

FRAME AND GRATES TYPE 9

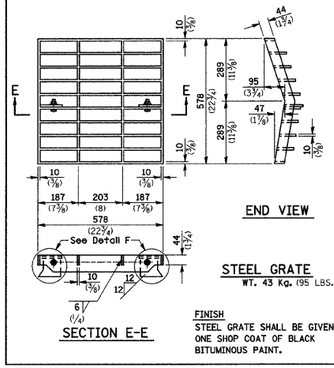


CAST FRAME
(GRAY IRON)
WT. 145 Kg. (320 LBS.)

NOTES

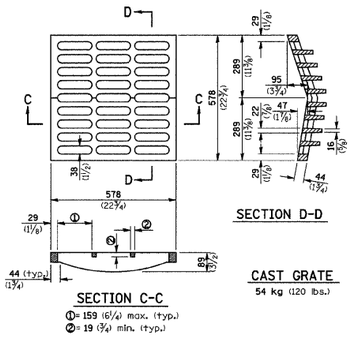
CLASS SI CONCRETE OR PRECAST CONCRETE SHALL BE USED THROUGHOUT. PRECAST CONCRETE SHALL BE IN ACCORDANCE WITH SECTION 504.01 THRU 504.05 OF THE STANDARD SPECIFICATIONS EXCEPT THAT CONCRETE STRENGTH SHALL BE 27.5 MPa (4,000 PSI) AFTER 28 DAYS.

THE CONTRACT UNIT PRICE EACH FOR INLET SPECIAL SHALL INCLUDE THE COST OF CONSTRUCTING THE INLET BOX, FURNISHING AND INSTALLING THE FRAME AND GRATE, THE CAST IRON STEPS (IF USED), THE PRECAST FLOOR SLAB, SAND CUSHION (WHEN USED) AND REINFORCEMENT BARS.

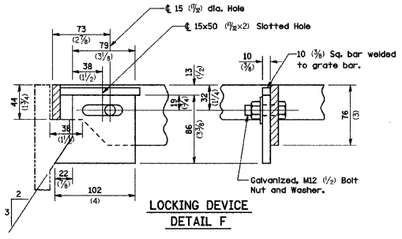


STEEL GRATE
WT. 43 Kg. (95 LBS.)

FINISH
STEEL GRATE SHALL BE GIVEN ONE SHOP COAT OF BLACK BITUMINOUS PAINT.



CAST GRATE
54 kg (120 lbs.)



LOCKING DEVICE
DETAIL F

GENERAL NOTES

THE MATERIAL FOR STEEL GRATE SHALL CONFORM TO ARTICLE 1006.04 OF THE STANDARD SPECIFICATIONS.

THE USE OF EITHER A CAST GRATE OR A STEEL GRATE WITH THE CAST FRAME SHALL BE THE OPTION OF THE CONTRACTOR.

THE CAST GRATE MAY BE MADE OF EITHER GRAY IRON OR DUCTILE IRON CONFORMING TO THE STANDARD SPECIFICATIONS. DUCTILE IRON CASTING SHALL BE GRADE 65-45-12

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

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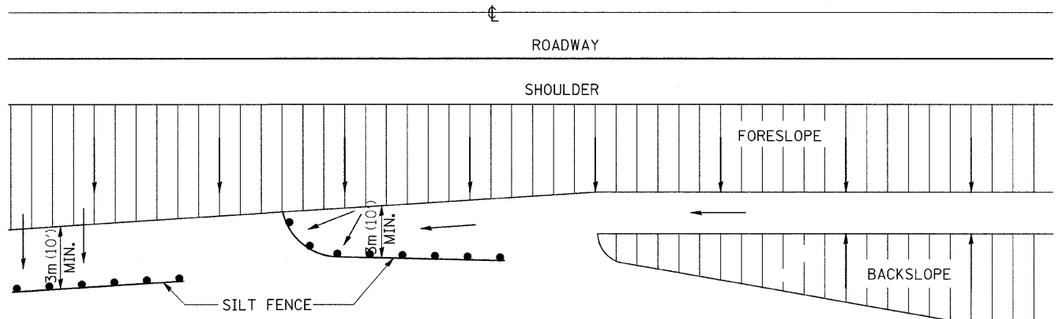
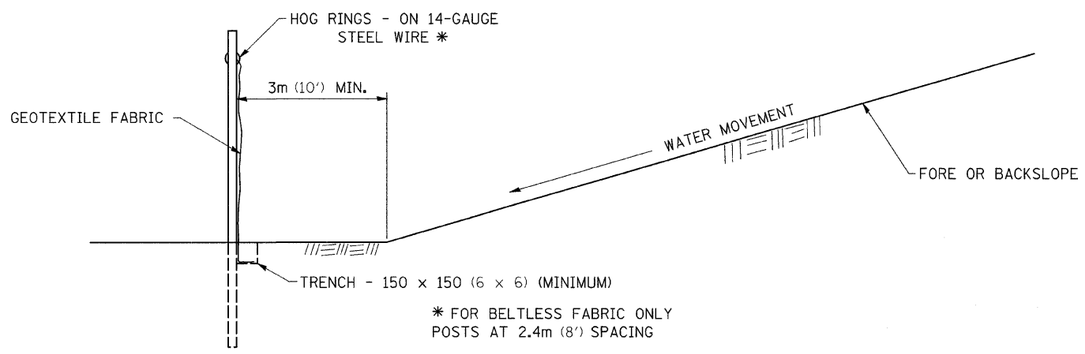
EROSION CONTROL DETAILS FOR SILT FENCE





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

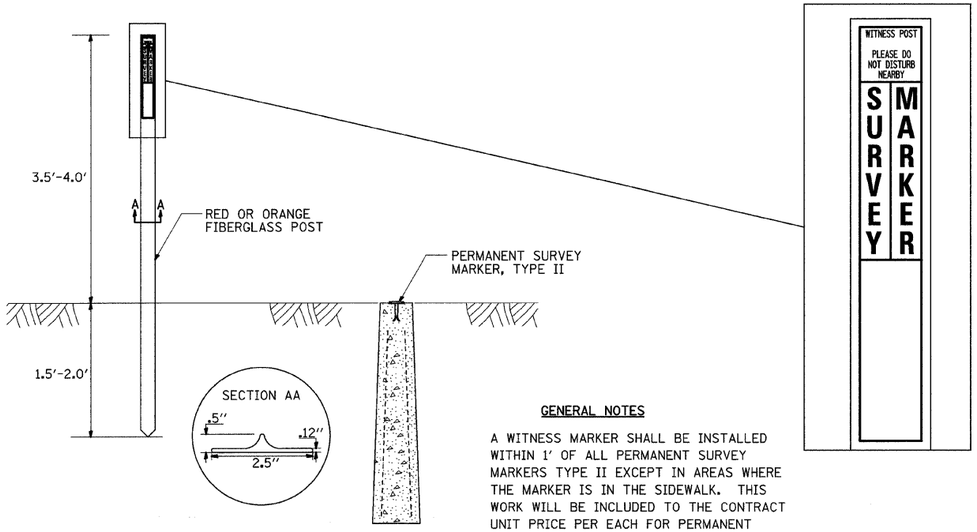
DETAILS OF SILT FENCE

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

CONTRACT NO. 64B89

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
654	109M	CARROLL	76	42
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

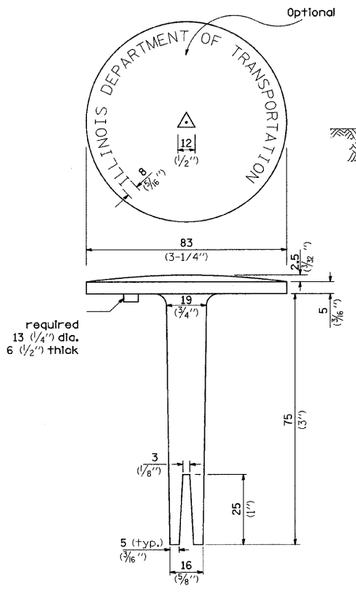
WITNESS MARKER FOR PERMANENT SURVEY MARKERS, TYPE II



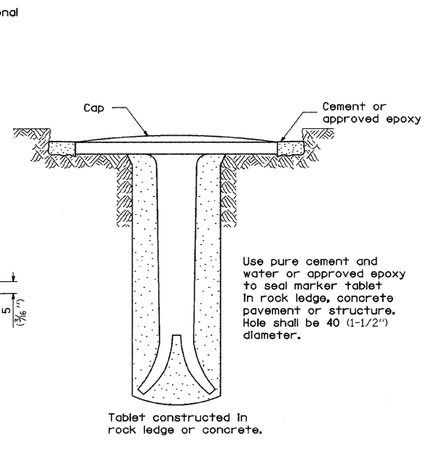
GENERAL NOTES

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

PERMANENT SURVEY MARKERS, TYPE II



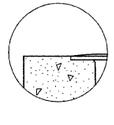
BRASS OR ALUMINUM TABLET



TYPE II

TYPE II

CAST-IN-PLACE MARKER



DETAIL A

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

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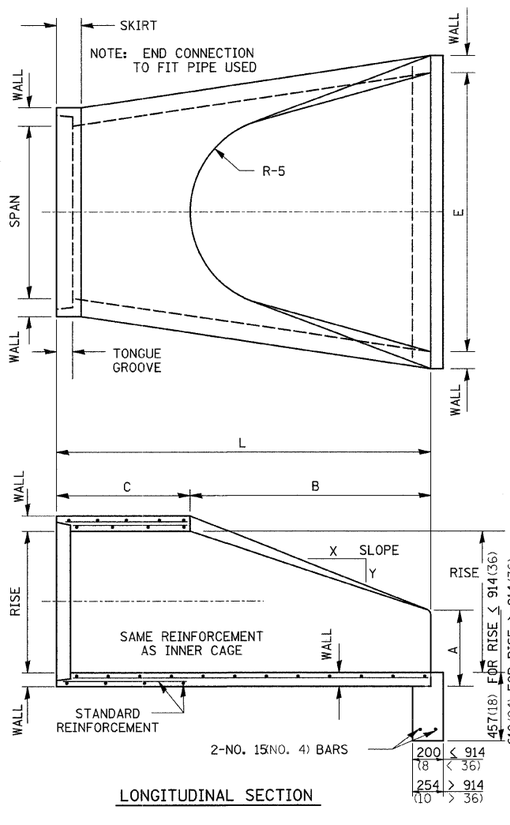
WITNESS MARKER & PERMANENT SURVEY MARKERS, TYPE II 66.2

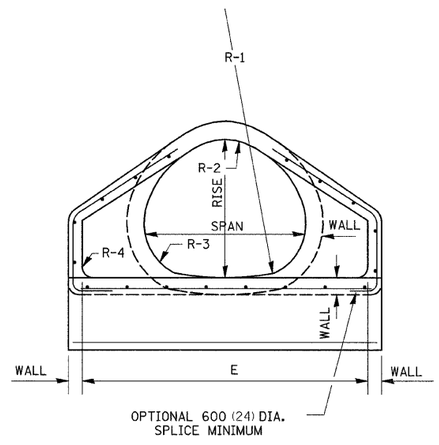
REVISED 6-26-06

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 11/16)	370 (14 9/16)	117 (4 19/32)	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 5/16)	2438 (96)	1524 (60)	914 (36)	1981 (78)	402 (15 13/16)	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 1/16)	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 5/16)	152 (6)	610 (24)



LONGITUDINAL SECTION



END VIEW

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.

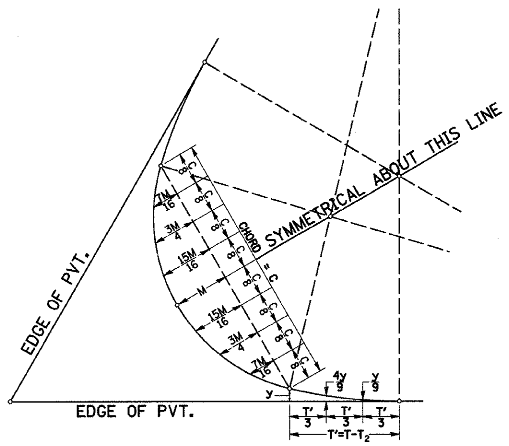
ALL DIMENSIONS ARE IN MILLIMETERS (INCHES) UNLESS OTHERWISE NOTED.

PRECAST REINFORCED CONCRETE ARCH DIAMETER FLARED END SECTION 86.2

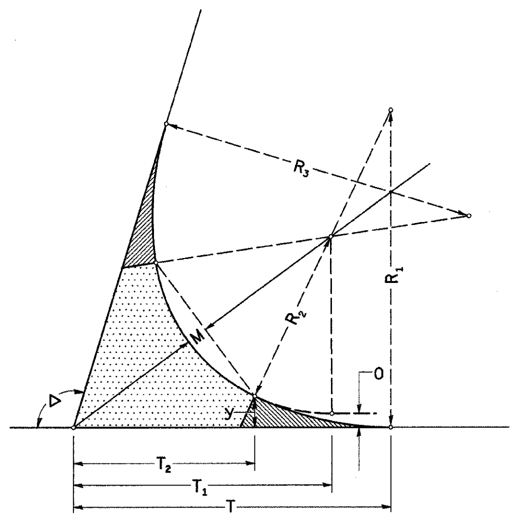
REVISED 10-20-87

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
654	109M	CARROLL	76	43
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

THREE CENTER CURVE DATA



FIELD LAYOUT METHOD



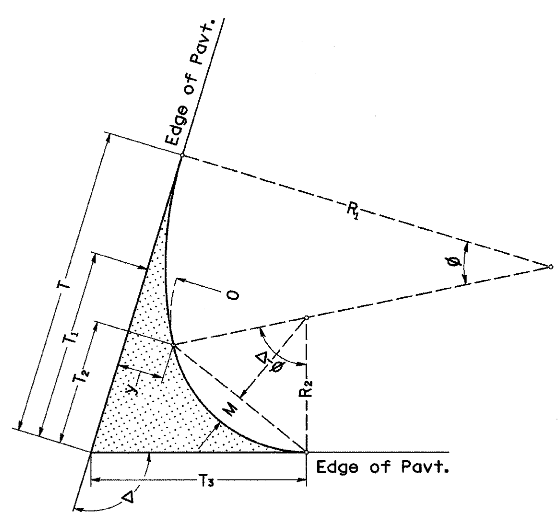
FOR SYMMETRICAL CURVES

SYMMETRICAL CURVES

CURVE #							
R_1							
R_2							
R_3							
O							
Δ							
T							
T_1							
T_2							
T'							
y							
$\frac{4y}{9}$							
$\frac{y}{9}$							
M							
$\frac{15M}{16}$							
$\frac{3M}{4}$							
$\frac{7M}{16}$							
C							

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

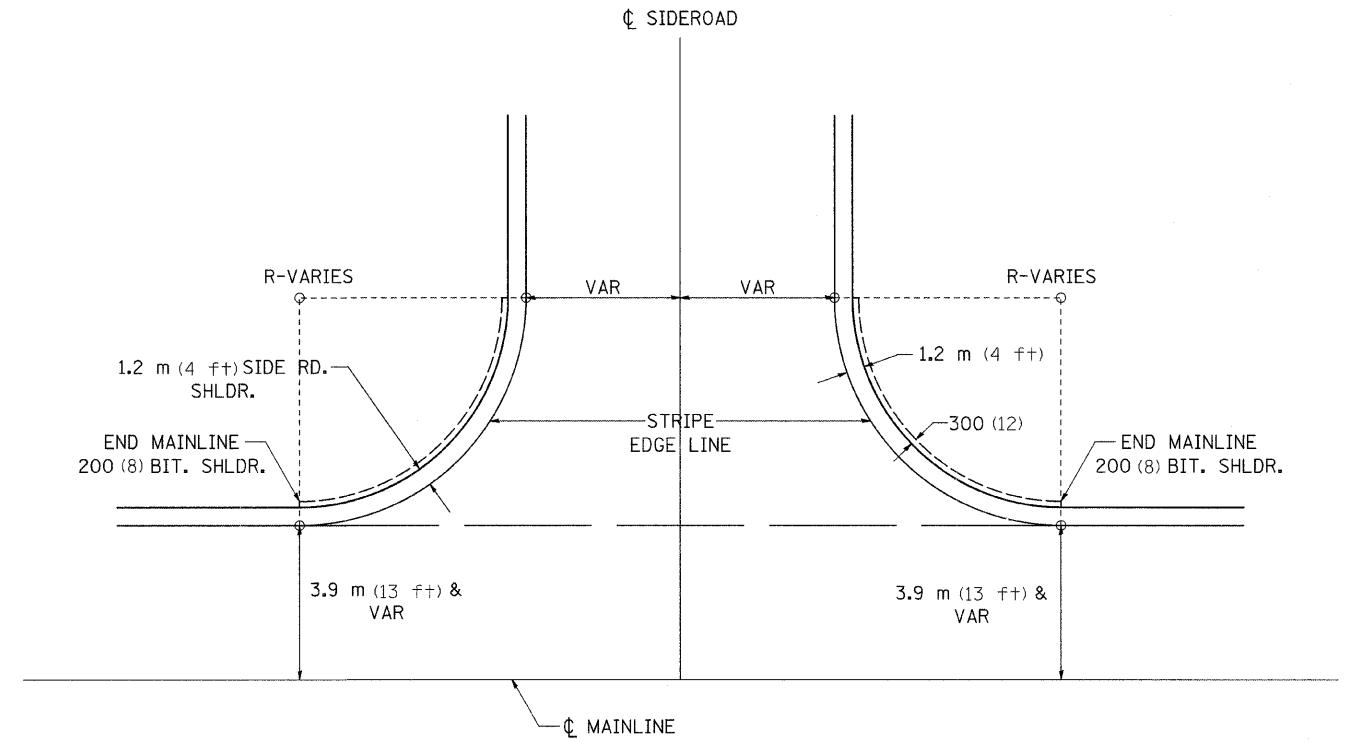
TWO CENTER CURVE DATA

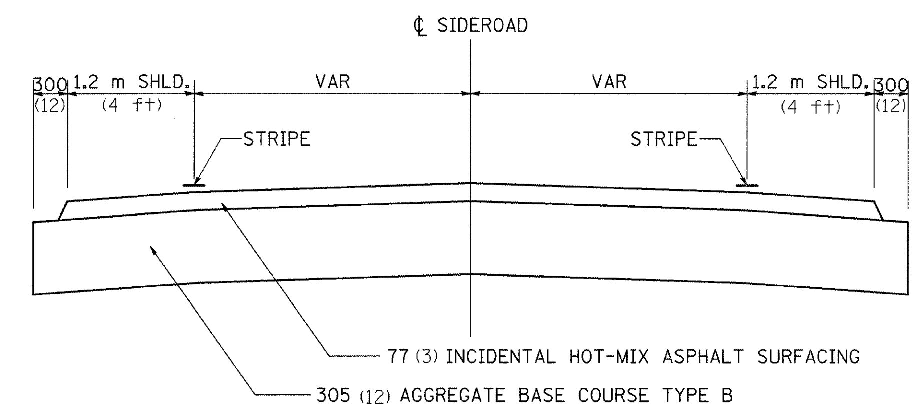


TWO CENTER CURVES

CURVE #							
R_1							
R_2							
O							
Δ							
T							
T_1							
T_2							
T_3							
y							
$\frac{4y}{9}$							
$\frac{y}{9}$							
M							
$\frac{15M}{16}$							
$\frac{3M}{4}$							
$\frac{7M}{16}$							
C							

TYPICAL AGGREGATE BASE SIDEROAD





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

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CONTRACT NO. 64B89

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
654	109M	CARROLL	76	44
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

STORM WATER POLLUTION PREVENTION PLAN
EROSION CONTROL PLAN

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 RECONSTRUCTION OF IL 73/ PAYNE RD INTERSECTION WHICH INCLUDES REPLACING THE EXISTING 6'X6' BOX CULVERT WITH A PRECAST 6'X6' CONCRETE BOX CULVERT ALONG THE SOUTH LEG OF THE INTERSECTION

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) 6.57 ACRES

PROPOSED R.O.W (TOTAL PARCEL AREA) 3.08 ACRES

DISTURBED BY EXCAVATION (E.O.P TO CONSTRUCTION LIMIT) 6.36 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

TWO DRAINAGE DITCHES FLOW FROM THE NORTH AND SOUTH TOWARD THE EXISTING 6'X6' BOX CULVERT

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.

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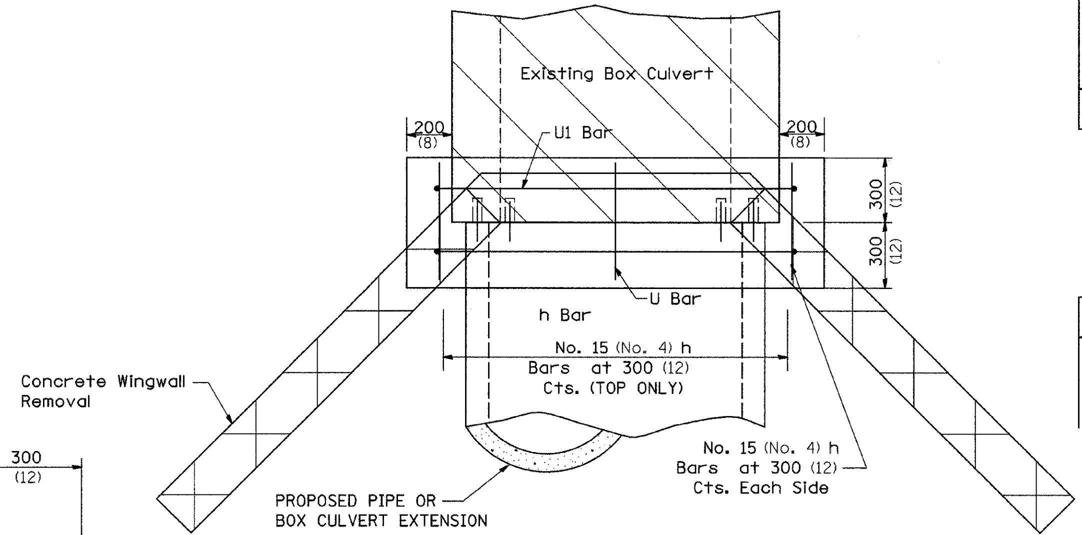
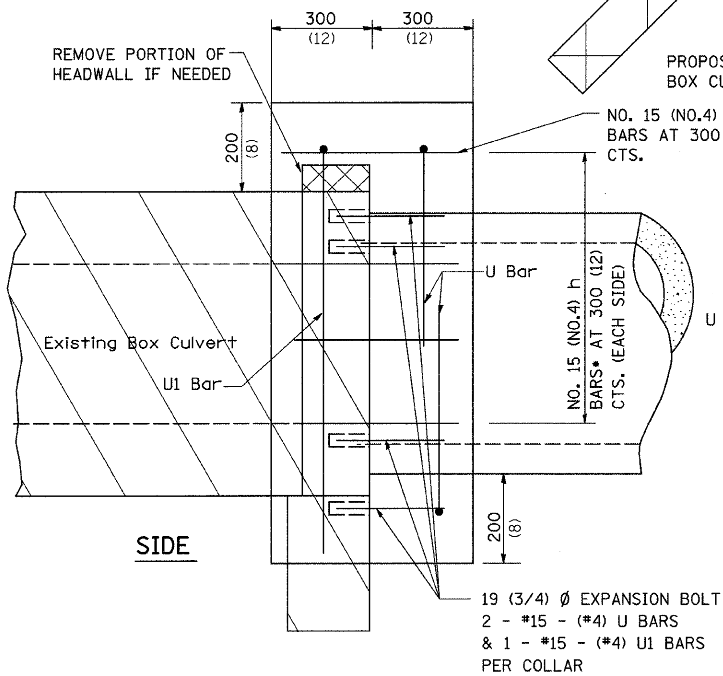
REVISED 5-12-04

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
654	109M	CARROLL	76	45
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

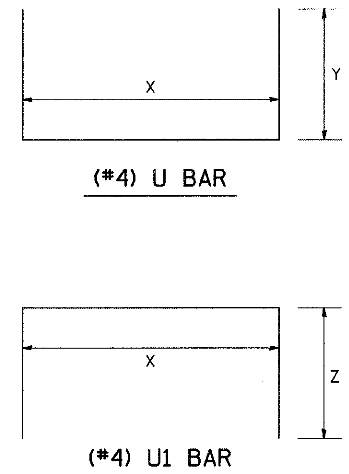
CONCRETE COLLARS FOR PIPE OR BOX CULVERT EXTENSIONS

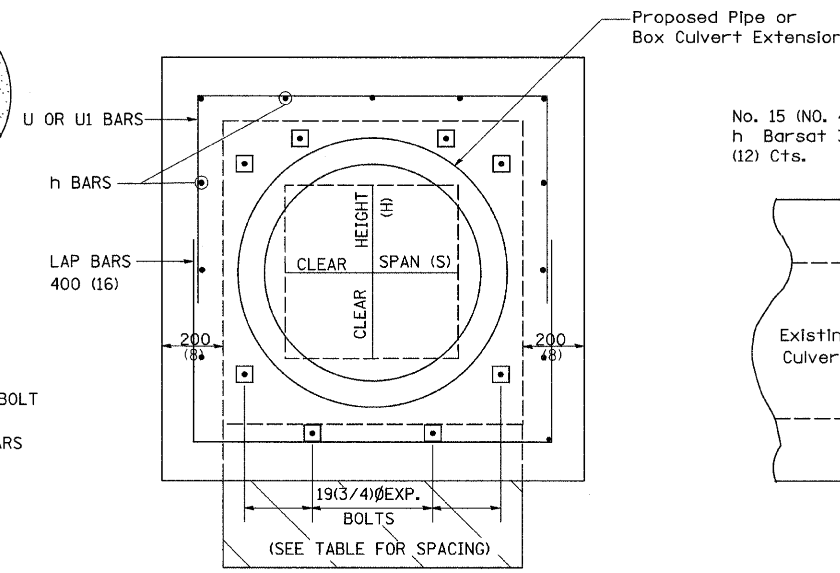


PLAN OF CULVERT WITH ANGLED WING WALLS

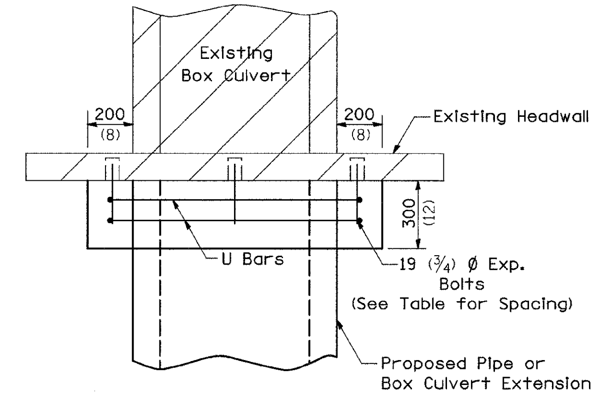


SIDE

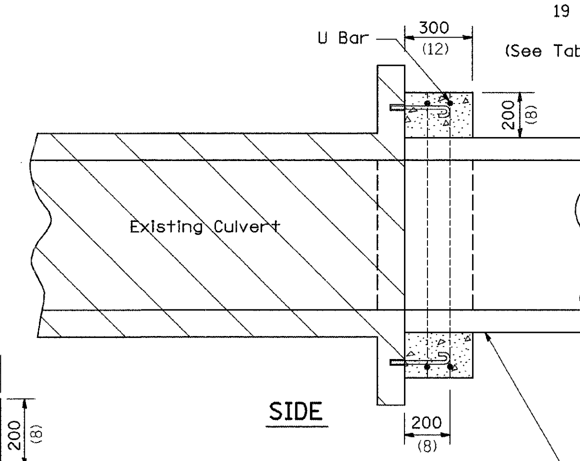




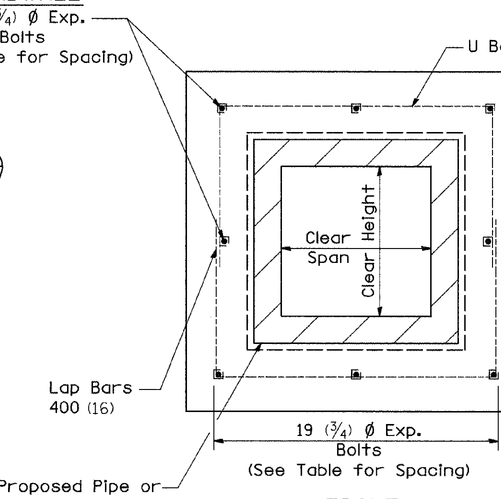
FRONT



PLAN OF CULVERT WITH STRAIGHT HEADWALL



SIDE



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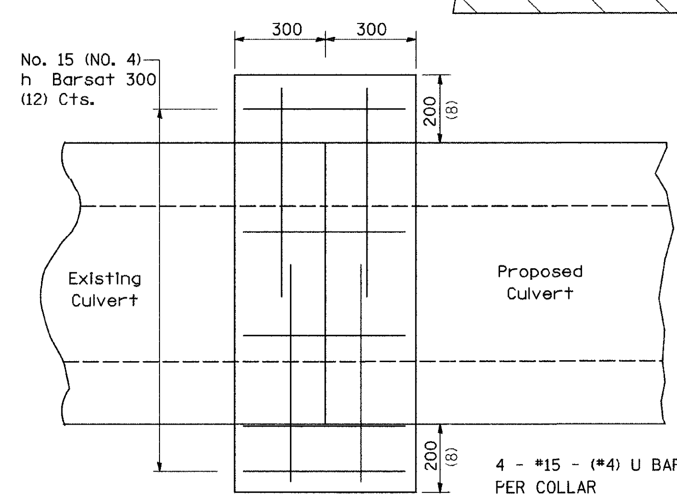


CULVERT CONNECTION WITHOUT EXISTING HEADWALL

PLACEMENT DETAILS FOR EXPANSION BOLTS

H OR S	NUMBER OF EXPANSION BOLTS REQUIRED PER SIDE			
	EXTENSIONS < 4.57m (15')		EXTENSIONS > 4.57m (15')	
	NUMBER	SPACING	NUMBER	SPACING
600 (24)	*		*	
750 (30)	2	450 (18)	2	450 (18)
900 (36)	2	600 (24)	2	600 (24)
1200 (48)	3	450 (18)	3	450 (18)
1500 (60)	4	400 (16)	3	600 (24)
1800 (72)	5	375 (15)	4	500 (20)
2100 (84)	5	450 (18)	4	600 (24)
2400 (96)	6	375 (15)	5	525 (21)
2700 (108)	6	475 (19)	5	600 (24)
3000 (120)	7	450 (18)	6	525 (21)
3300 (132)	8	425 (17)	6	600 (24)
3600 (144)	8	475 (19)	7	550 (22)

* MINIMUM ONE PER SIDE

Bill of Materials

	DIMENSIONS		h Bar	U Bar		EXPANSION BOLTS	CONCRETE COLLAR	REINF. BARS
STATION	X	Y	No.	No.	Length	No.	Cu. Yd	LBS
STATION	4.67	2.67		4	59	12	1	40
			15		15			23
					Total	12	1	63

All h Bars 450 (18) Long

General Notes

Concrete Collars shall be constructed of Class SI Concrete in accordance with Section 503 of the Standard Specifications

Reinforcement bars shall conform to Section 508 of the Standard Specifications.

The concrete will be paid for at the contract unit price per cubic meter (cubic yard) for CONCRETE COLLAR. Reinforcement will be paid for at the contract unit price per kilogram (pound) for REINFORCEMENT BARS. Expansion Bolts, when required, will be paid for at the contract unit price each for EXPANSION BOLTS of the size indicated, which price shall include furnishing, drilling holes, and installing the expansion bolts complete in place. These bolts shall extend at least 200 (8 inches) into the new concrete.

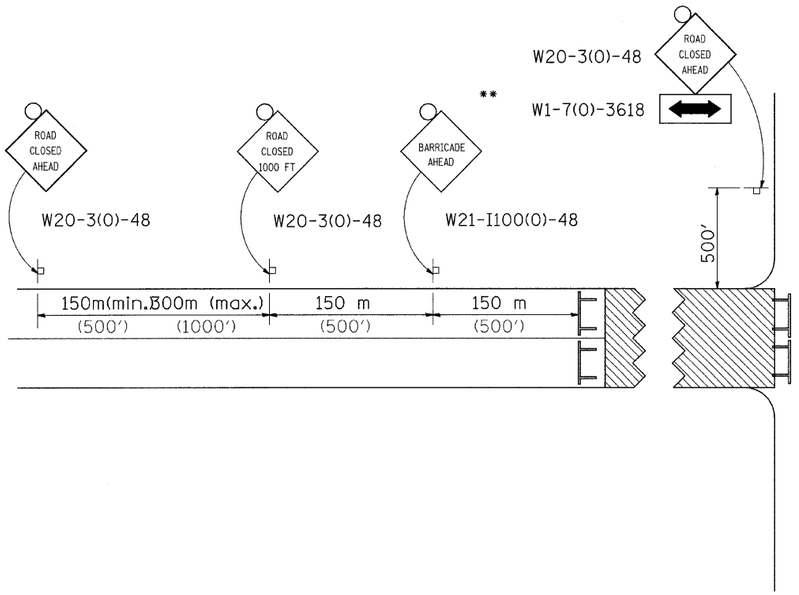
PLOT DATE = Thu Dec 13 14:54:04 2007
FILE NAME = c:\projects\p200906\d00906spl.dgn
PLOT SCALE = 50.0000 ' / IN.
REFERENCE = REF

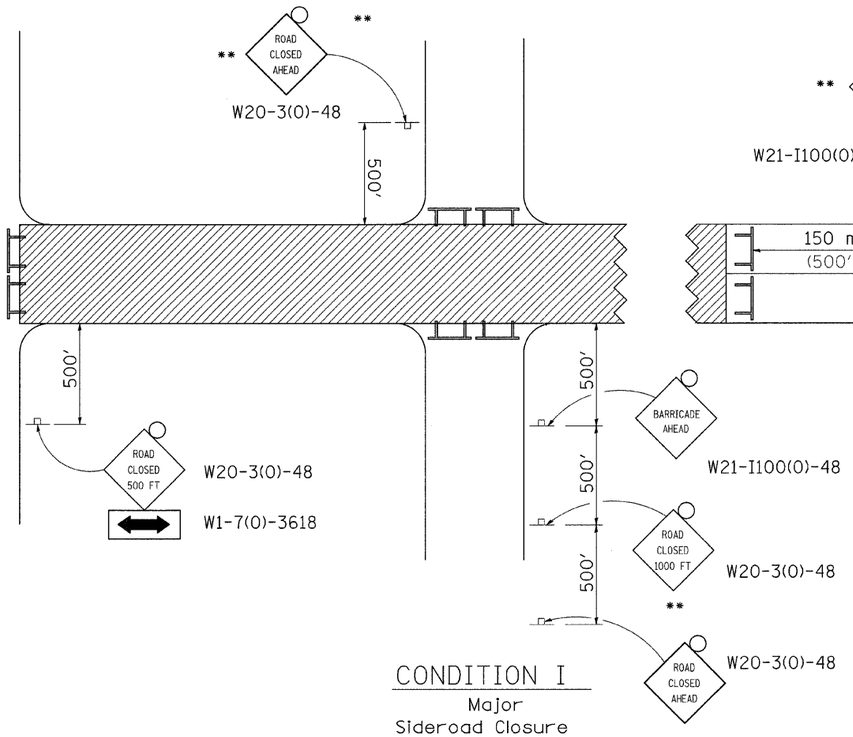
REVISED 11-09-06

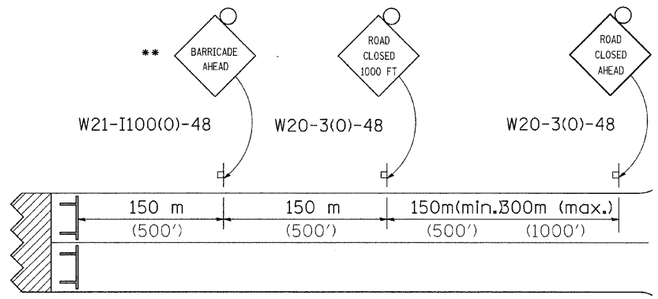
CONTRACT NO. 64B89

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
654	109M	CARROLL	76	46
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

TRAFFIC CONTROL FOR ROAD CLOSURE







GENERAL NOTES

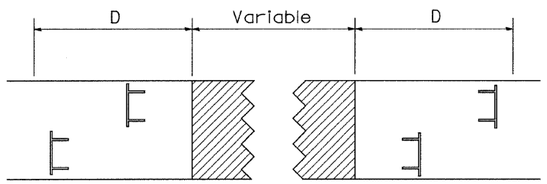
Longitudinal dimensions may be adjusted to fit field conditions.

When speed limit is less than 45mph, change sign spacing to 250' and change ROAD CLOSED 1000 FT to ROAD CLOSED 500 FT.

Side roads requiring all three signs as shown in CONDITION I (Major Sideroad Closure), shall be listed in the special provision.

** Where local access is to be maintained, barricades are to be set up as shown in Road Closed to thru traffic. Type III Barricades and R11-2-4830 signs shall be as shown in "Road Closed To All Traffic" detail on Highway Standard 701901.

ROAD CLOSED TO THRU TRAFFIC BARRICADE SET UP



Type III Barricades and R11-4-4830 signs shall be as shown in "Road Closed To All Thru Traffic" detail on Highway Standard 701901. If the distance "D" exceeds 600 m (2000') an additional set of barricades and R11-4-4830 shall be placed at each end of the work area.

SYMBOLS

Work area

Type III Barricade with Flashers

Sign with flashing light

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

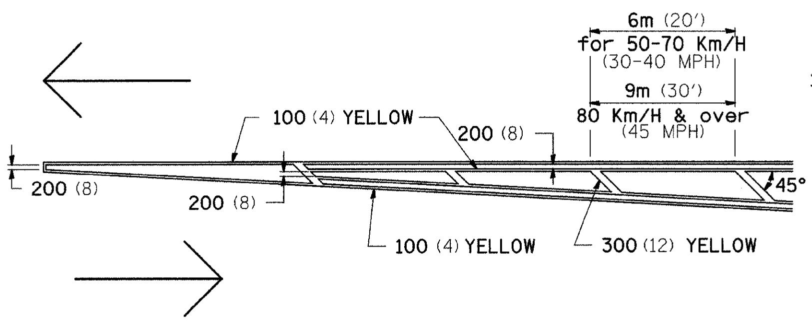
TYPICAL APPLICATION FOR ROAD CLOSURE

REVISED 10-20-04

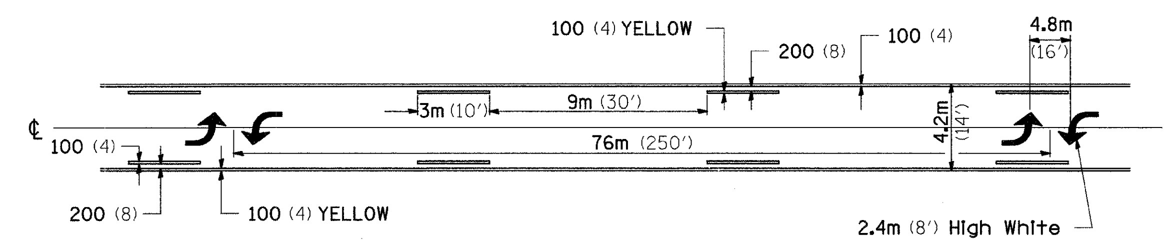
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
654	109M	CARROLL	76	47
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

TYPICAL PAVEMENT MARKINGS

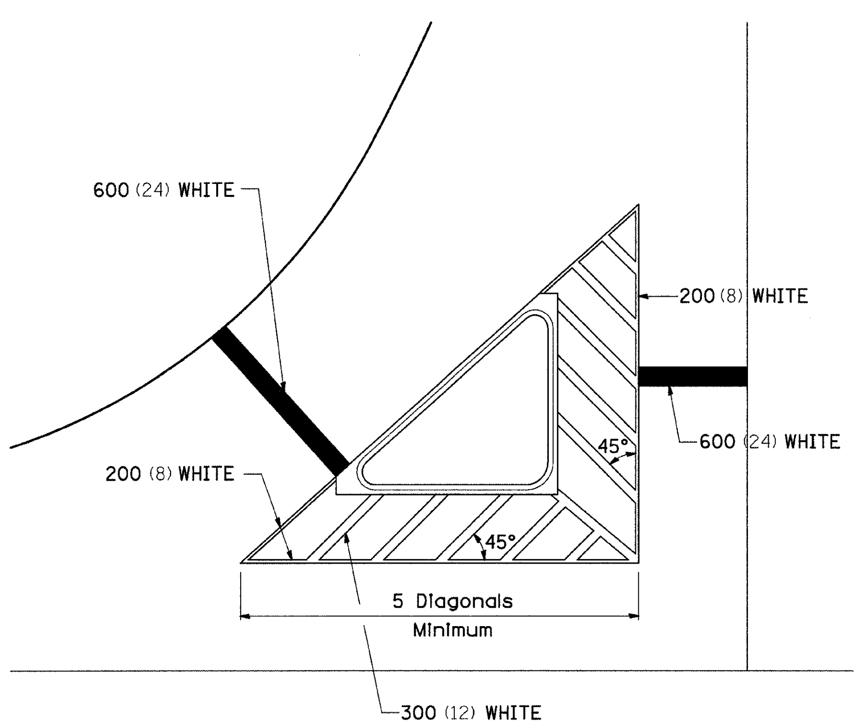
TYPICAL PAVEMENT MARKING FOR FLUSH MEDIAN AT LEFT TURN LANE



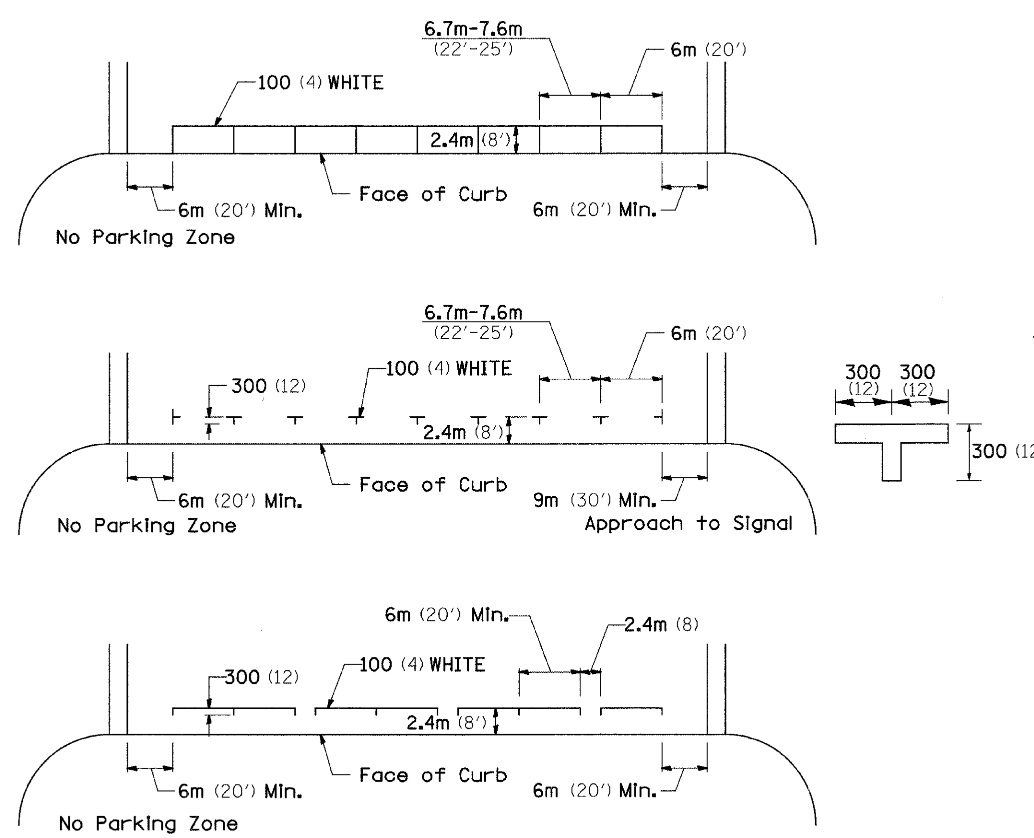
MEDIAN PAVEMENT MARKING



TYPICAL ISLAND OFFSET SHOULDER WIDTH



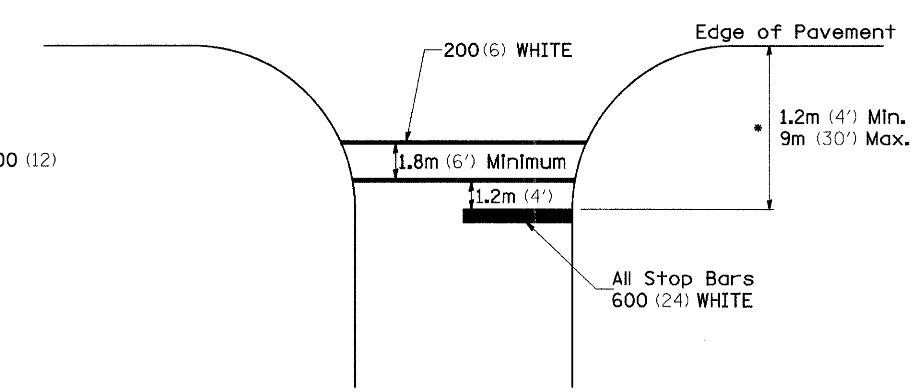
TYPICAL PARKING SPACING



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

STANDARD CROSSWALK MARKING

See Schedules for Locations



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

PLOT DATE = Thu Dec 13 14:54:05 2007
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REFERENCE = #REF#

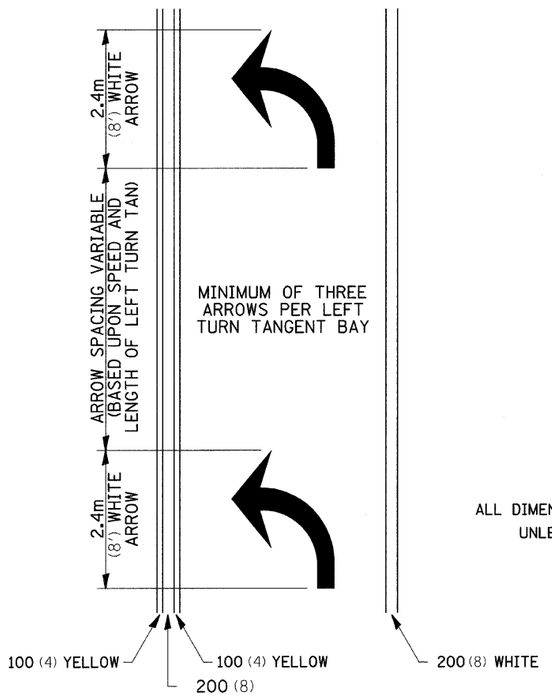
REVISED 7-20-06

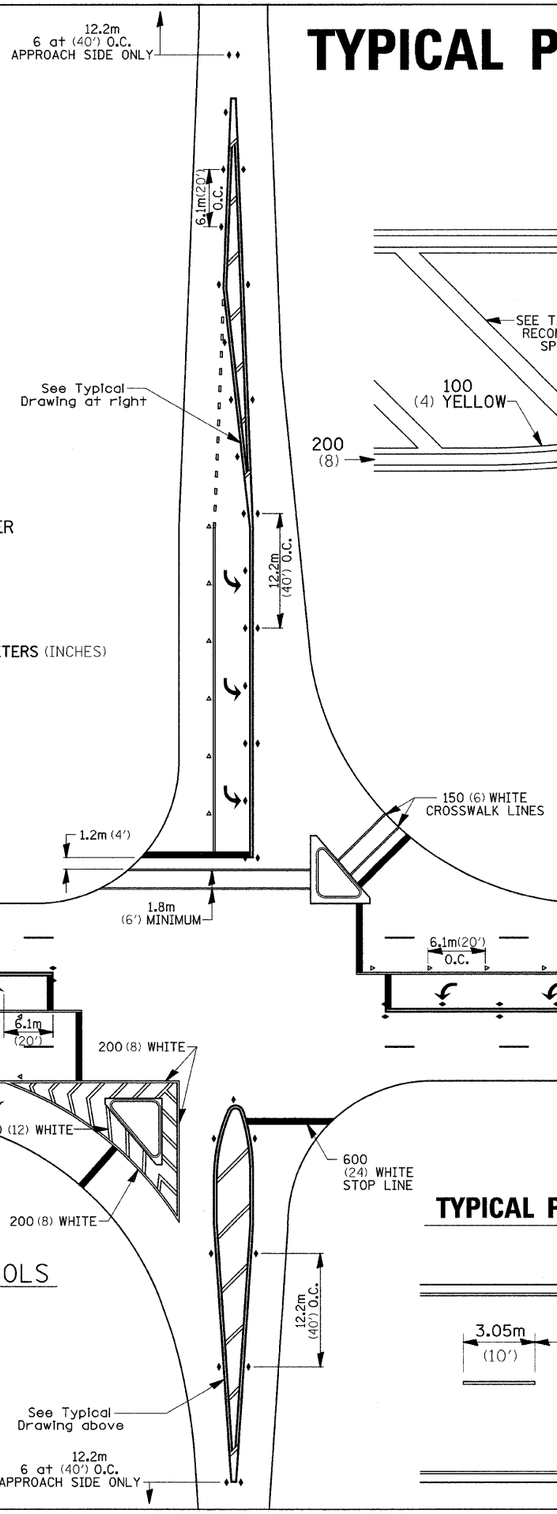
CONTRACT NO. 64B89

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
654	109M	CARROLL	76	48
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

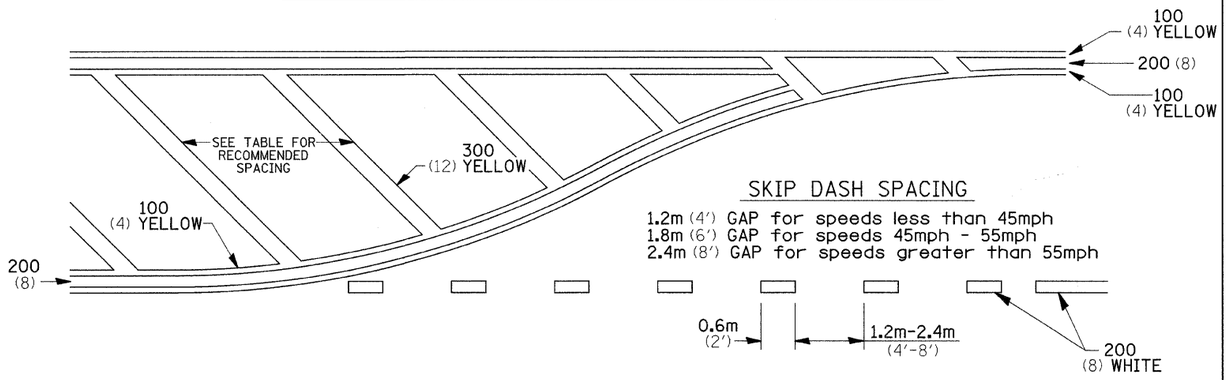
TYPICAL PAVEMENT MARKINGS

ARROW LAYOUT





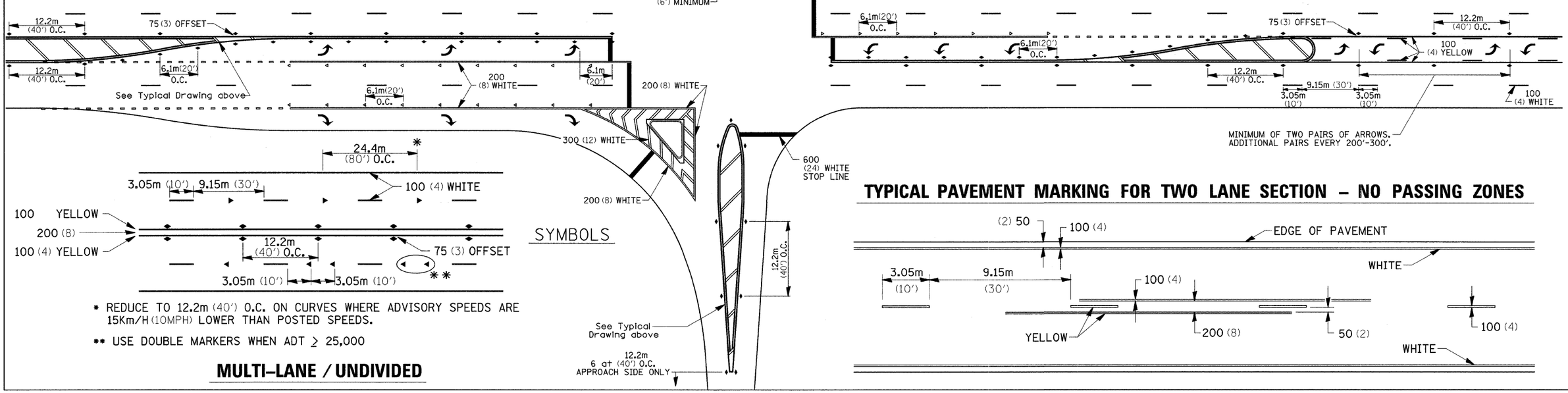
TYPICAL PAVEMENT MARKING FOR FLUSH MEDIAN



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.



TYPICAL PAVEMENT MARKING FOR TWO LANE SECTION – NO PASSING ZONES

PLOT DATE = Thu Dec 13 14:54:45 2007
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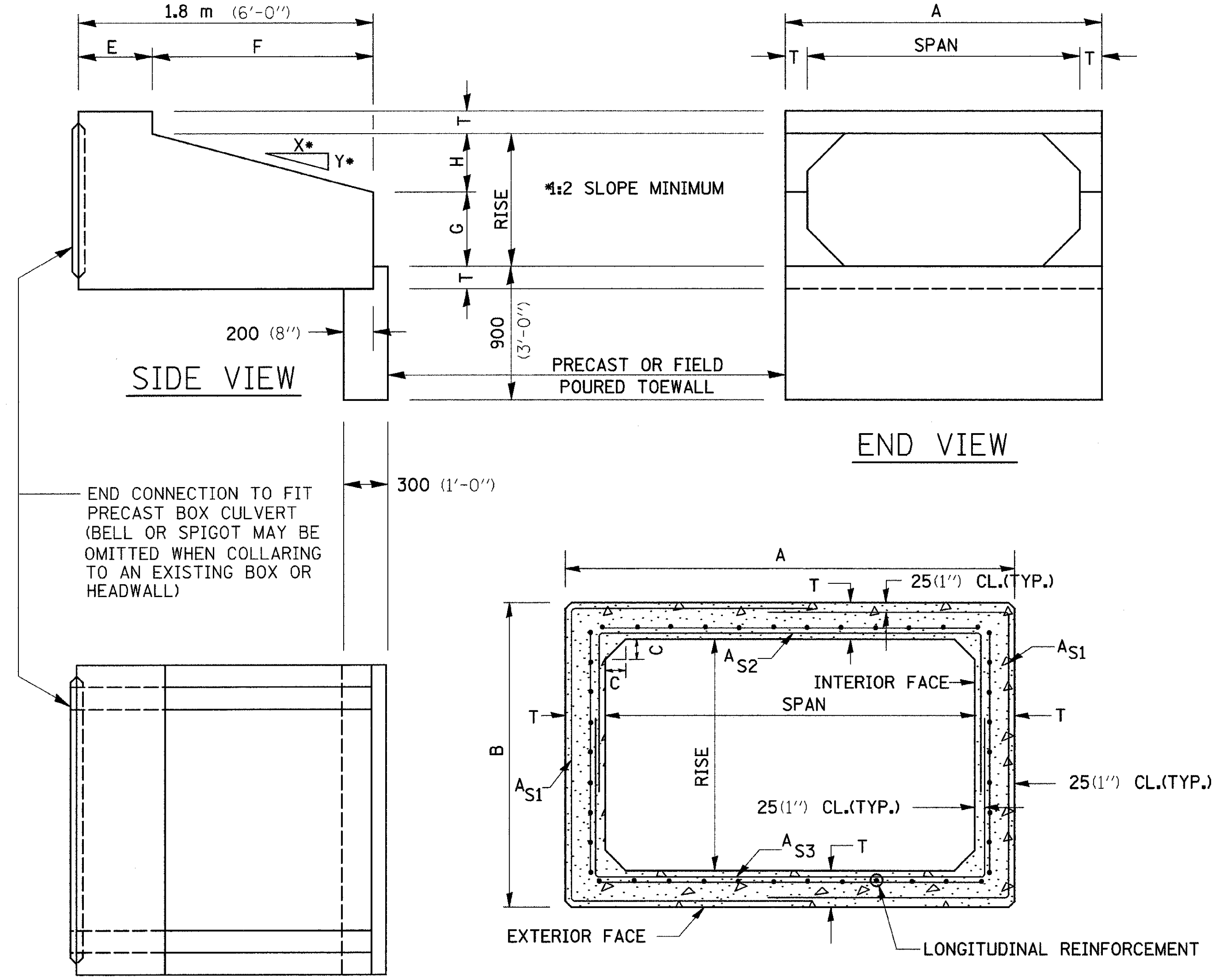
REFERENCE = REF

REVISED 7-20-06

DETAIL OF PRECAST CONCRETE BOX CULVERTS AND END SECTIONS



PLAN

CROSS-SECTION

GENERAL NOTES

PRECAST CONCRETE BOX CULVERTS AND PRECAST CONCRETE BOX CULVERT END SECTIONS

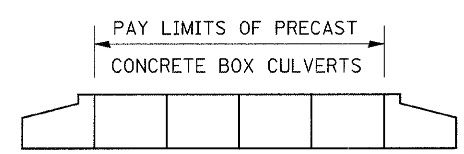
THIS WORK CONSISTS OF FURNISHING AND INSTALLING PRECAST BOX CULVERTS AND BOX CULVERT END SECTIONS AS SHOWN ON THE PLANS AND SPECIFIED HEREIN.

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

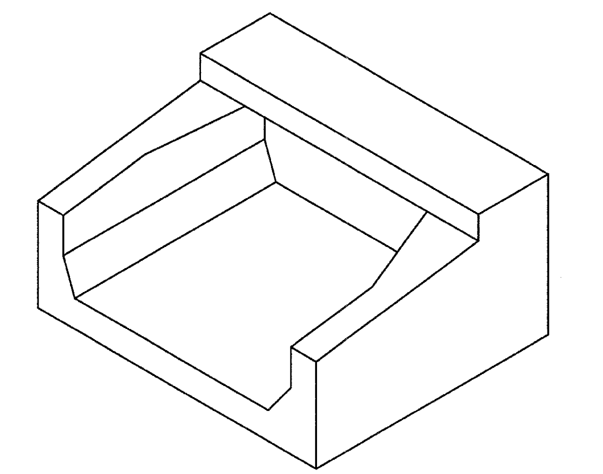


SHOP PLANS FOR THE PRECAST CONCRETE BOX CULVERT SECTIONS AND THE END SECTIONS SHALL BE SUBMITTED IN ACCORDANCE WITH THE REQUIREMENTS OF ARTICLE 1042.03 (b) OF THE STANDARD SPECIFICATIONS.

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 EXCAVATION 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 CONCTRACT 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.



ISOMETRIC VIEW

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)	1:3
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)	1:3
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)	1:3
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)	1:3
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)	1:3
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)	1:3
1.2 x 1.2 (4'x4')	125 (5)	1450 (4-10)	1450 (4-10)	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)	1:3
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)	1:3
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)	1:3
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)	1:3
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)	1:3
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 (7-2)	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)	1:3
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 (10-10)	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 (1-0)	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 (1-0)	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 (1-0)	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 (1-0)	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 (1-0)	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 (1-0)	600 (2-0)	1200 (4-0)	1800 (6-0)	600 (2-0)	1:2

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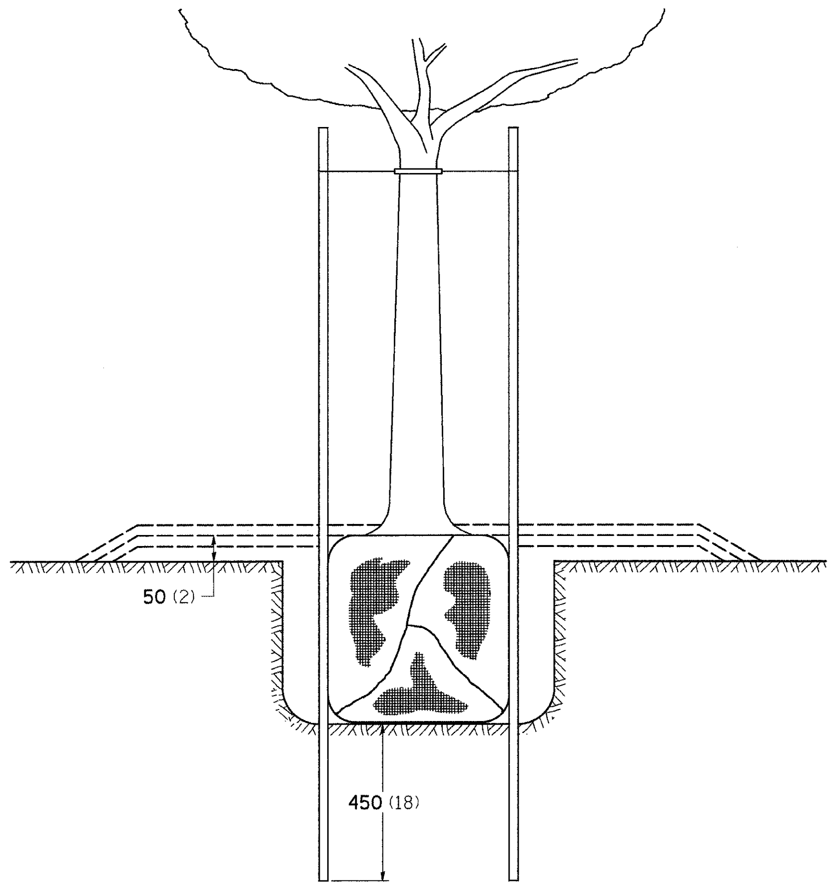
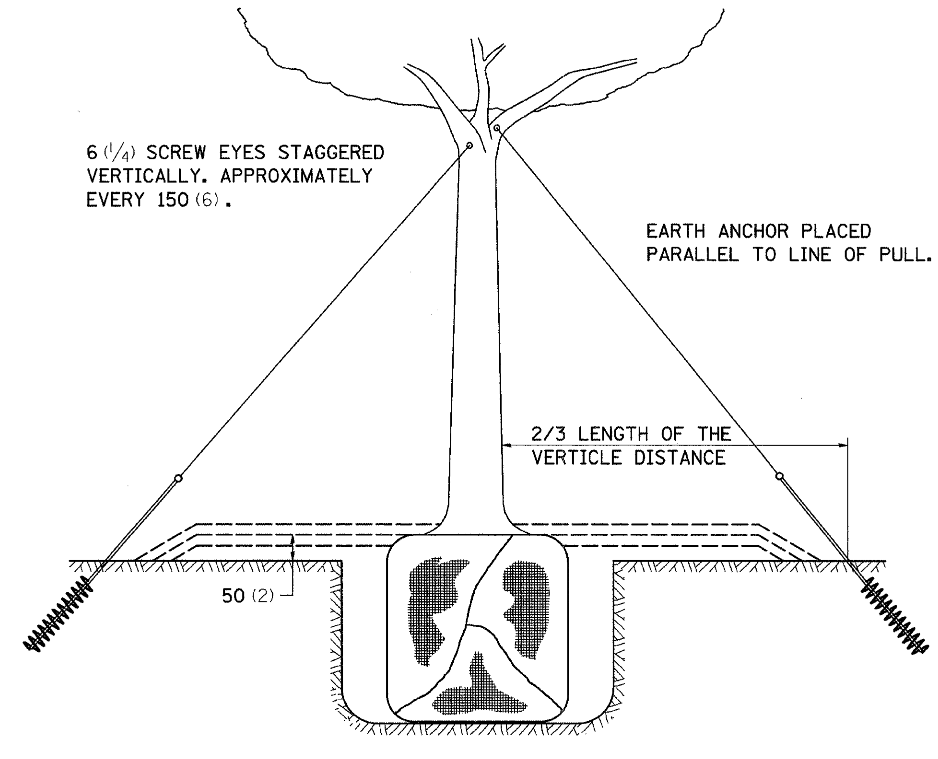
DETAILS OF PLANTING AND BRACING TREES



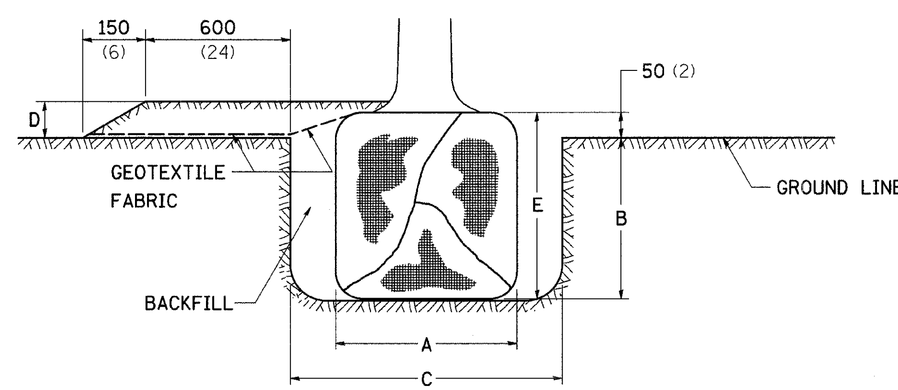
TREES SMALLER THAN 115 (4½) IN DIAMETER

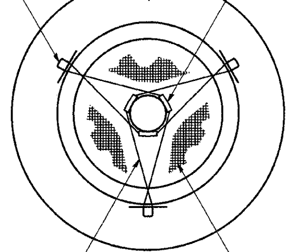
SMALL	A	B	C	D	E	F
TREE SIZE	DIAMETER OF BALL OR ROOT SYS.	DEPTH OF HOLE EXCAVATION	WIDTH OF HOLE EXCAVATION	THICKNESS OF MULCH COVER	DEPTH OF BALL OR ROOT SYS.	VOLUME OF MULCH COVER m^3 (CU. YDS.)
1.5-1.8m (5'-6')	400 (16)	250 (10)	750 (30)	100 (4)	300 (12)	0.41 (0.54)
1.5-1.8m (5'-6') BB	400 (16)	250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

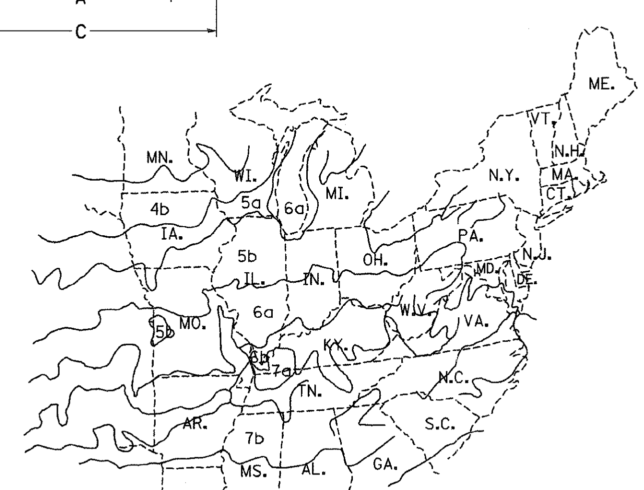
LARGE	A	B	C	D	E	F
TREE SIZE	DIAMETER OF BALL OR ROOT SYS.	DEPTH OF HOLE EXCAVATION	WIDTH OF HOLE EXCAVATION	THICKNESS OF MULCH COVER	DEPTH OF BALL OR ROOT SYS.	VOLUME OF MULCH COVER m^3 (CU. YDS.)
0-50 (0-2)	500 (20)	275 (11)	900 (36)	100 (4)	325 (13)	0.47 (0.61)
50-65 (2-2½)BB	600 (24)	350 (14)	1200 (48)	100 (4)	400 (16)	0.60 (0.78)
65-75 (2½-3)BB	700 (28)	425 (17)	1200 (48)	100 (4)	475 (19)	0.60 (0.78)
75-90 (3-3½) BB	800 (32)	425 (17)	1500 (60)	100 (4)	475 (19)	0.73 (0.96)
90-100 (3½-4) BB	900 (36)	500 (20)	1500 (60)	100 (4)	550 (22)	0.73 (0.96)
100-115 (4-4½) BB	1000 (40)	550 (22)	1800 (72)	100 (4)	600 (24)	0.89 (1.16)
115-125 (4½-5) BB	1100 (44)	600 (24)	1800 (72)	100 (4)	650 (26)	0.89 (1.16)
125-140 (5-5½) BB	1200 (48)	675 (27)	2100 (84)	100 (4)	725 (29)	1.06 (1.38)



TREES OVER 115 (4½) IN DIAMETER

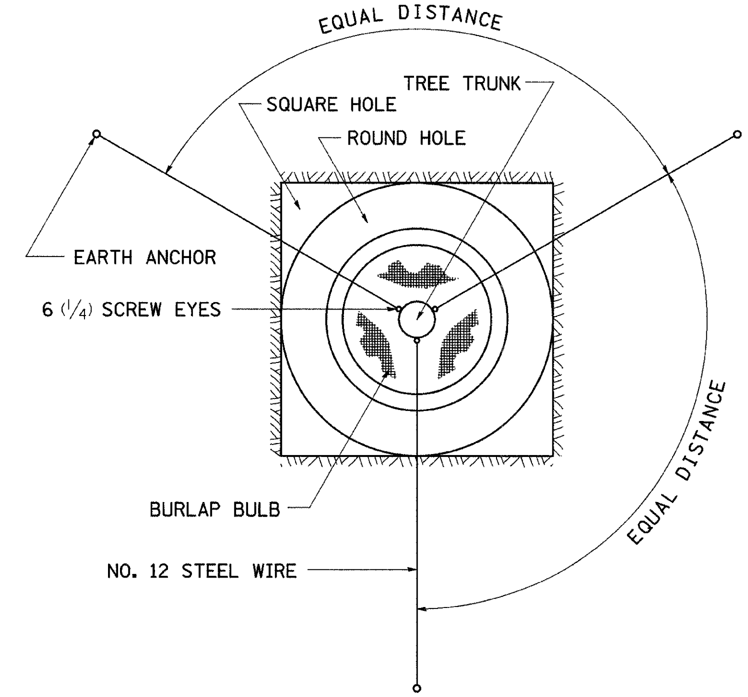






PLANT HARDINESS ZONE MAP

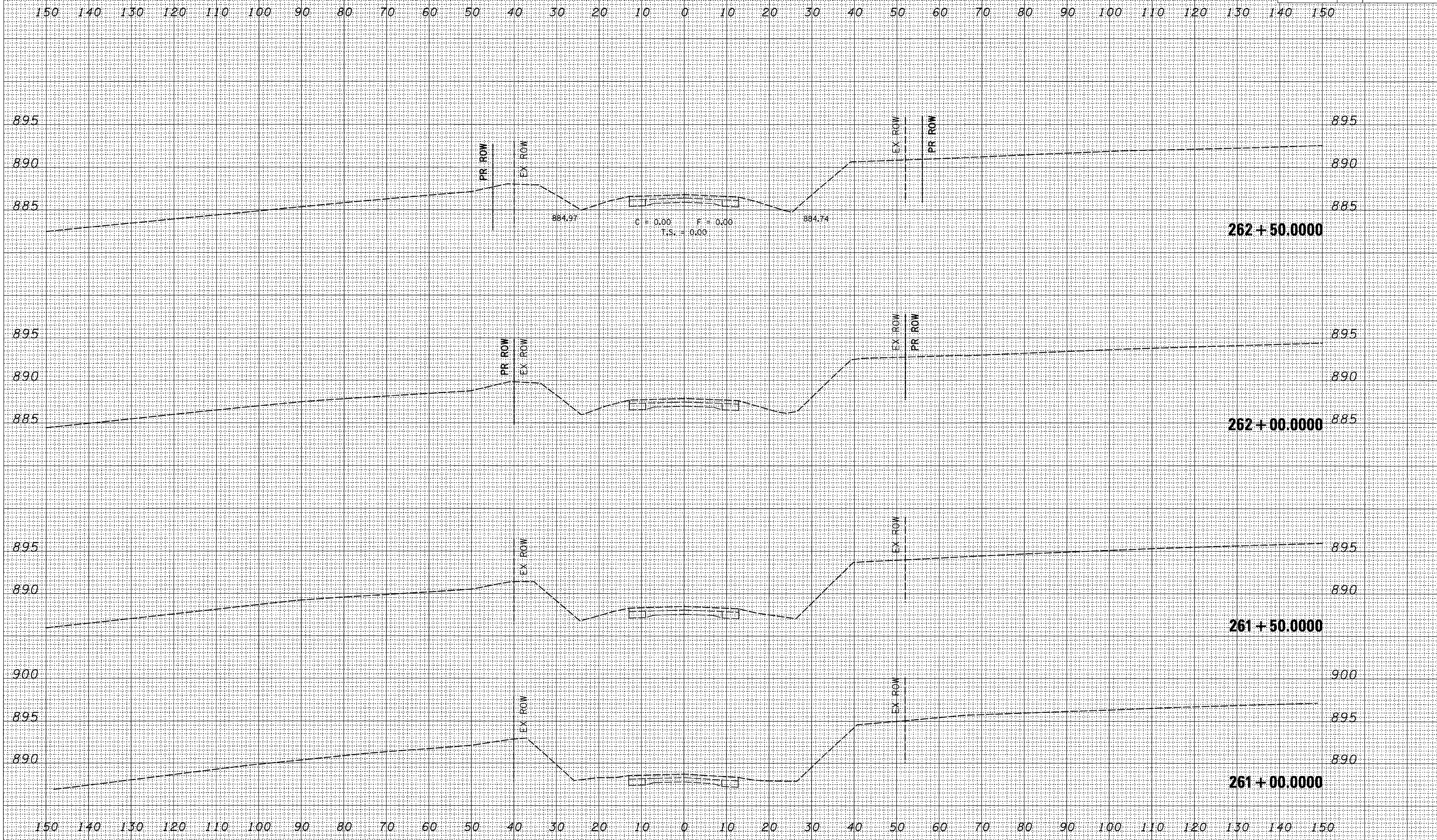
U.S. DEPARTMENT OF AGRICULTURE
AGRICULTURAL RESEARCH SERVICE
PUBLICATION NO. 814



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

CONTRACT NO. 64B89

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
654	109M	CARROLL	76	51
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



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

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CONTRACT NO. 64B89

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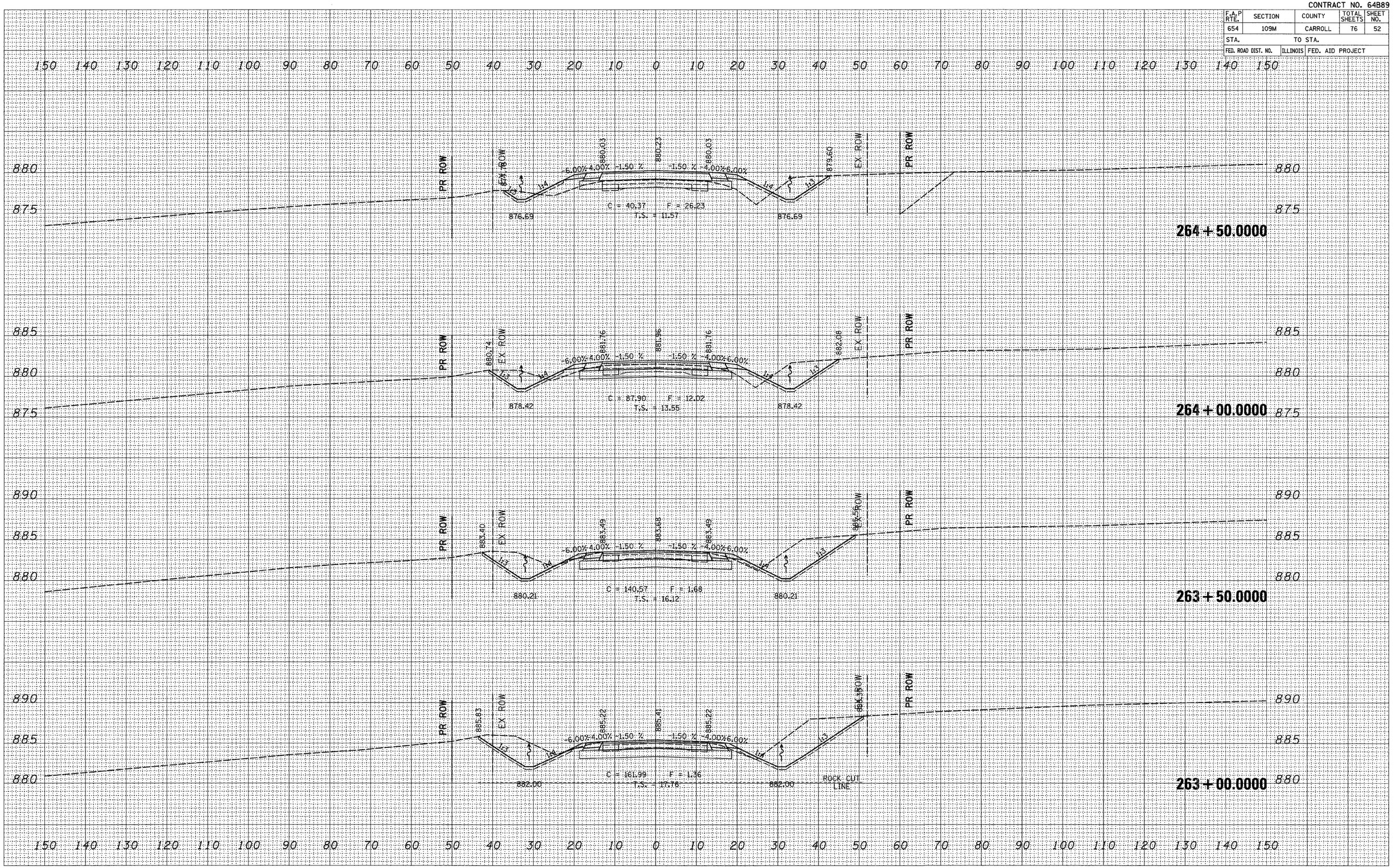
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



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NOTE BOOK	PLOTTED		
NO.	TEMPLATE		
	AREAS		
	AREAS CHECKED		

ORIGINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
NO.	TEMPLATE		
	AREAS		
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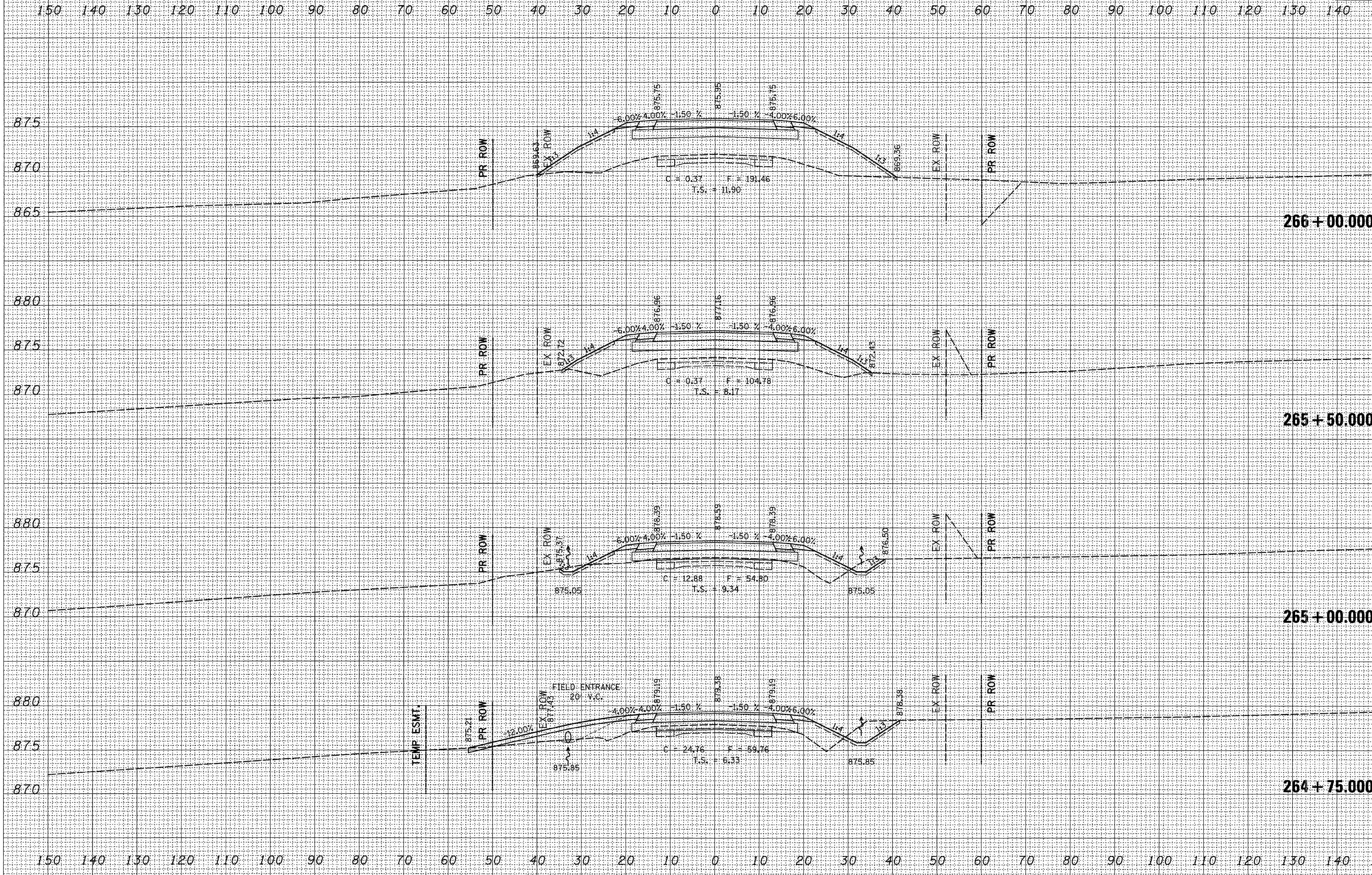
CONTRACT NO. 64B89

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
654	109M	CARROLL	76	53
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



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SURVEYED			
PLOTTED			
TEMPLATE			
AREAS			
AREAS CHECKED			
NOTE BOOK	NO.		

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SURVEYED			
PLOTTED			
TEMPLATE			
AREAS			
AREAS CHECKED			
NOTE BOOK	NO.		

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CONTRACT NO. 64B89

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
654	109M	CARROLL	76	54
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

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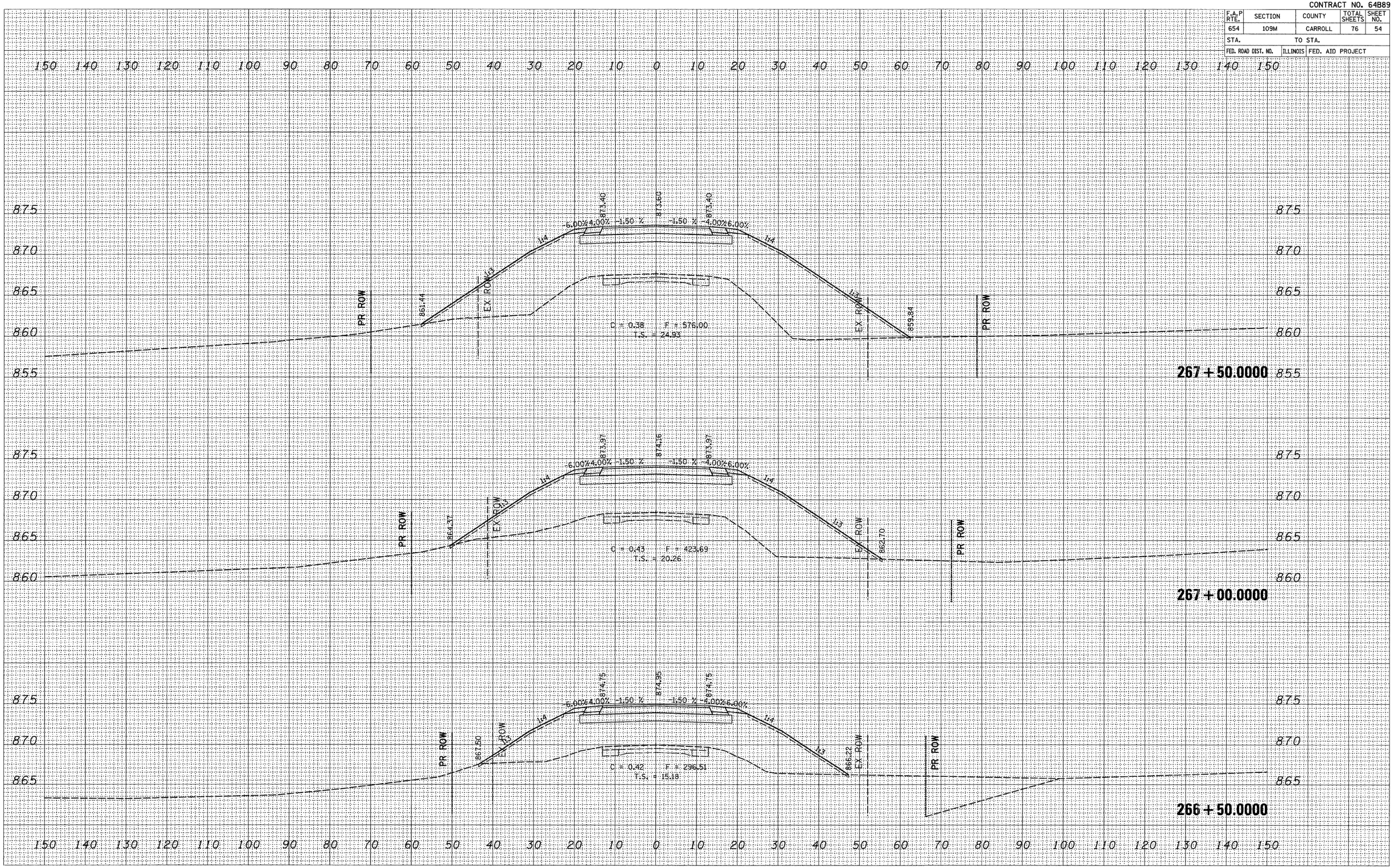
	PLOTTED		
NOTE BOOK	TEMPLATE		
NO.	AREAS		
	AREAS CHECKED		



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CONTRACT NO. 64B89

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
654	109M	CARROLL	76	55
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

FINAL SURVEY	BY	DATE
NOTE BOOK	SURVEYED	
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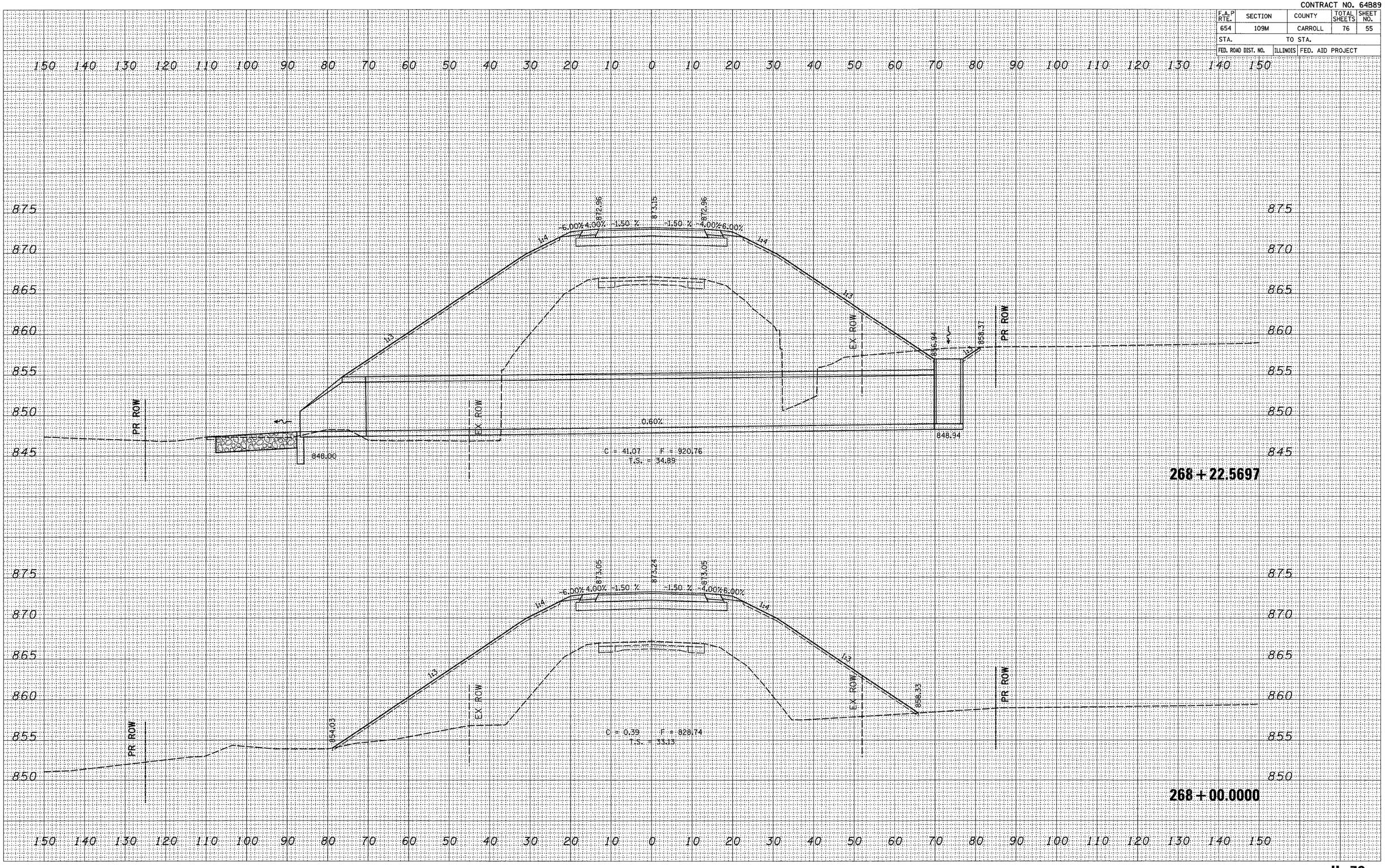
	TEMPLATE	
	AREAS	
	AREAS CHECKED	



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CONTRACT NO. 64B89

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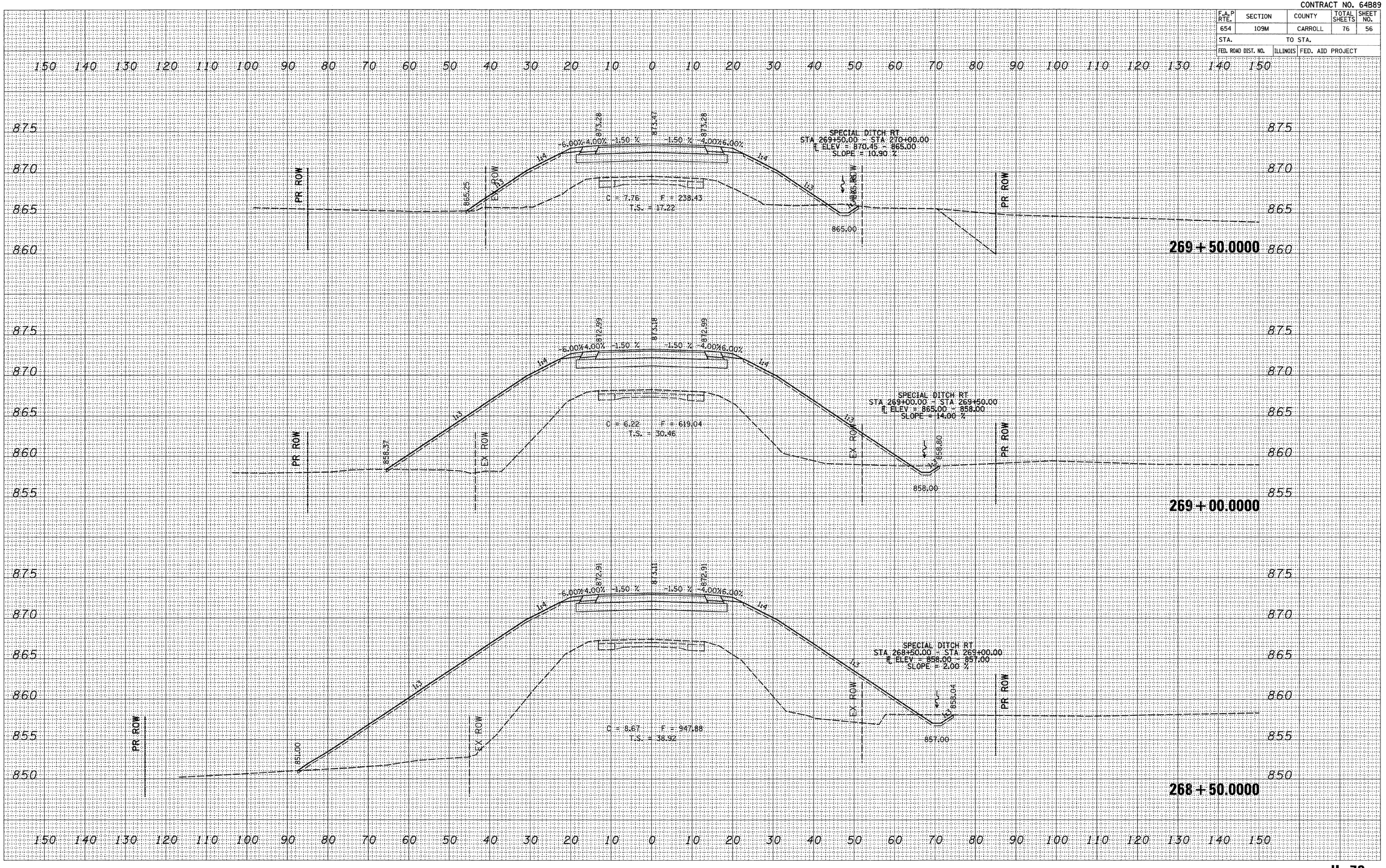
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



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

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CONTRACT NO. 64B89

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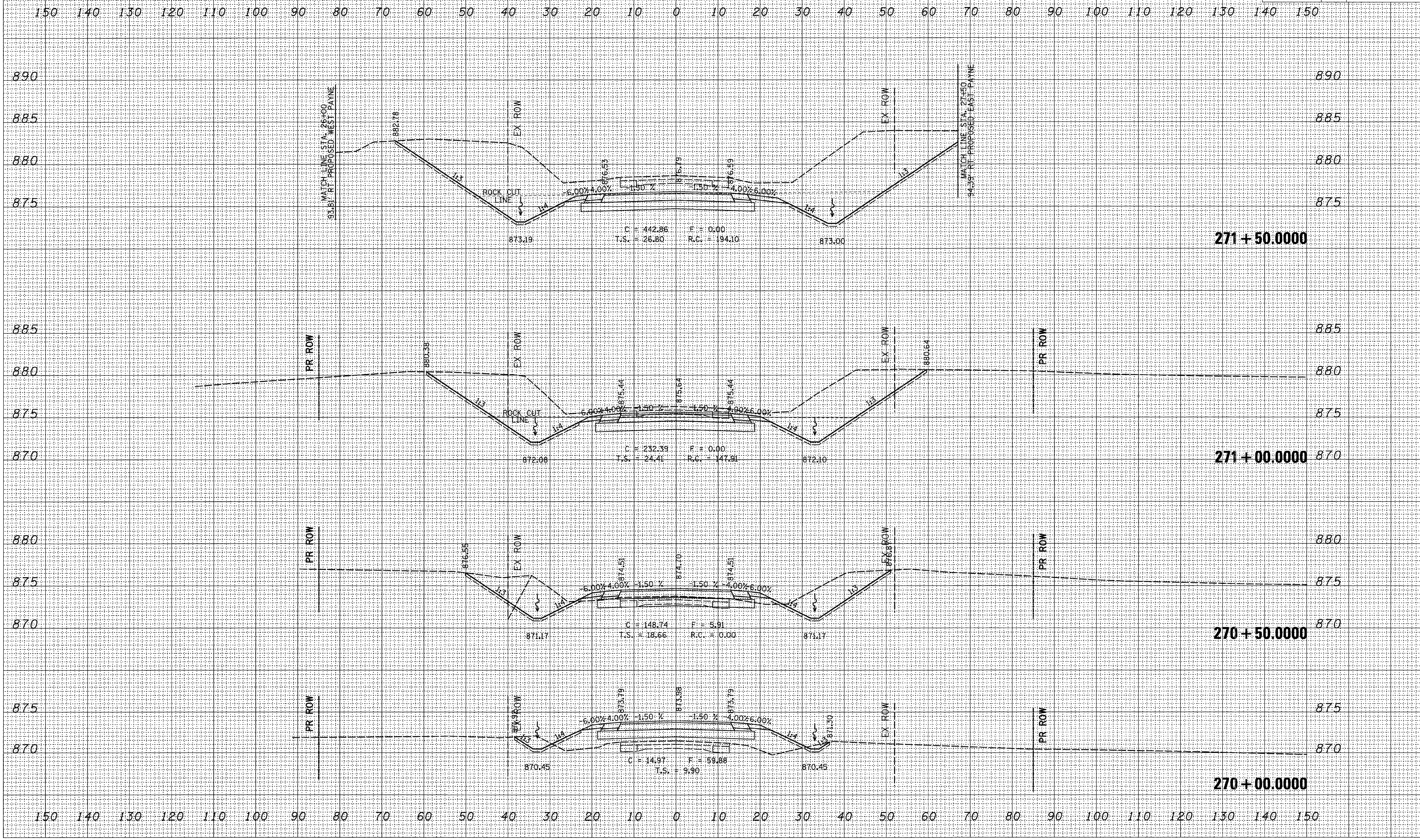
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



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

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IL 73

CONTRACT NO. 64B89

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
654	109M	CARROLL	76	58
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

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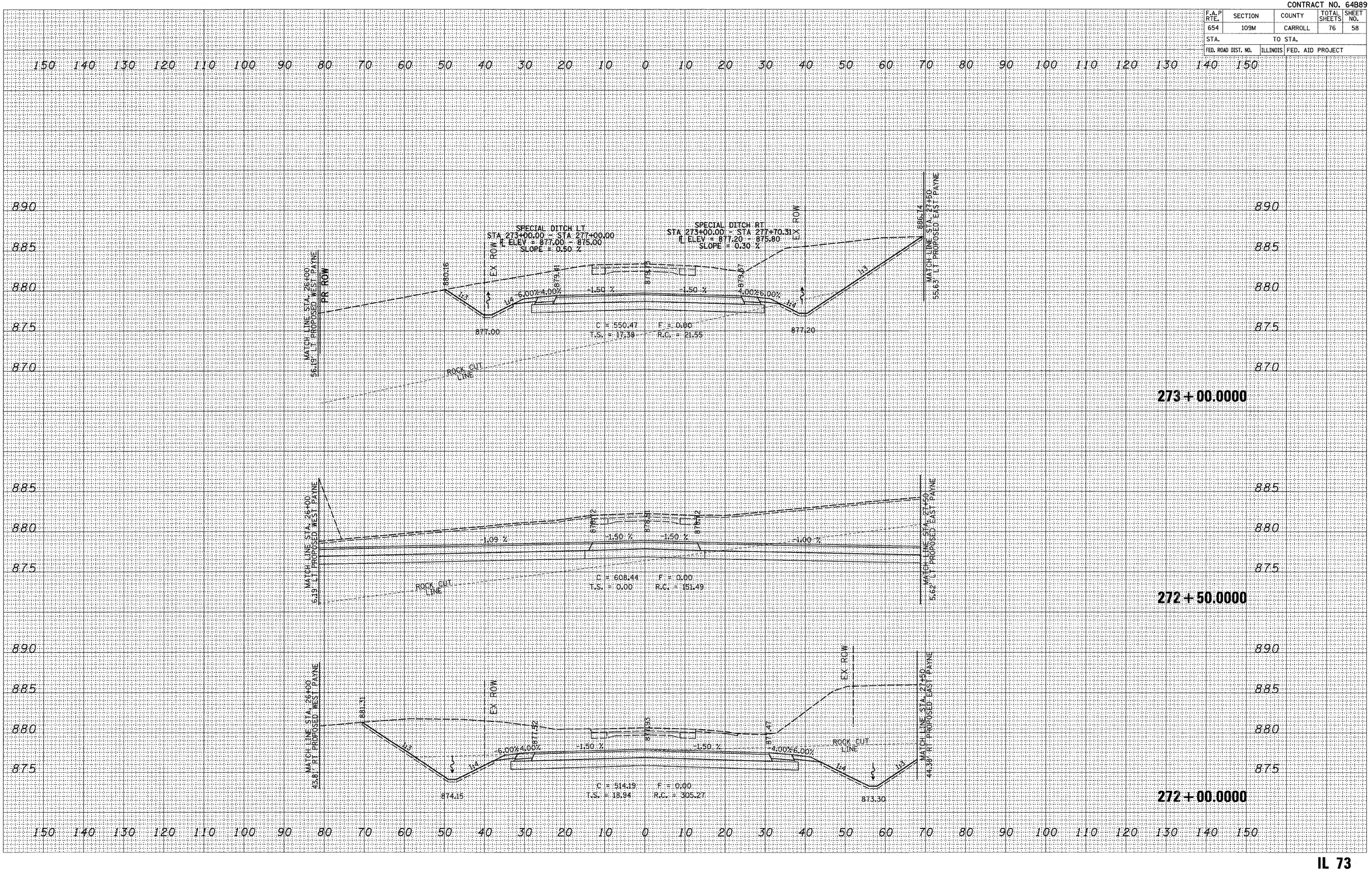

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CONTRACT NO. 64B89

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
654	109M	CARROLL	76	59
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

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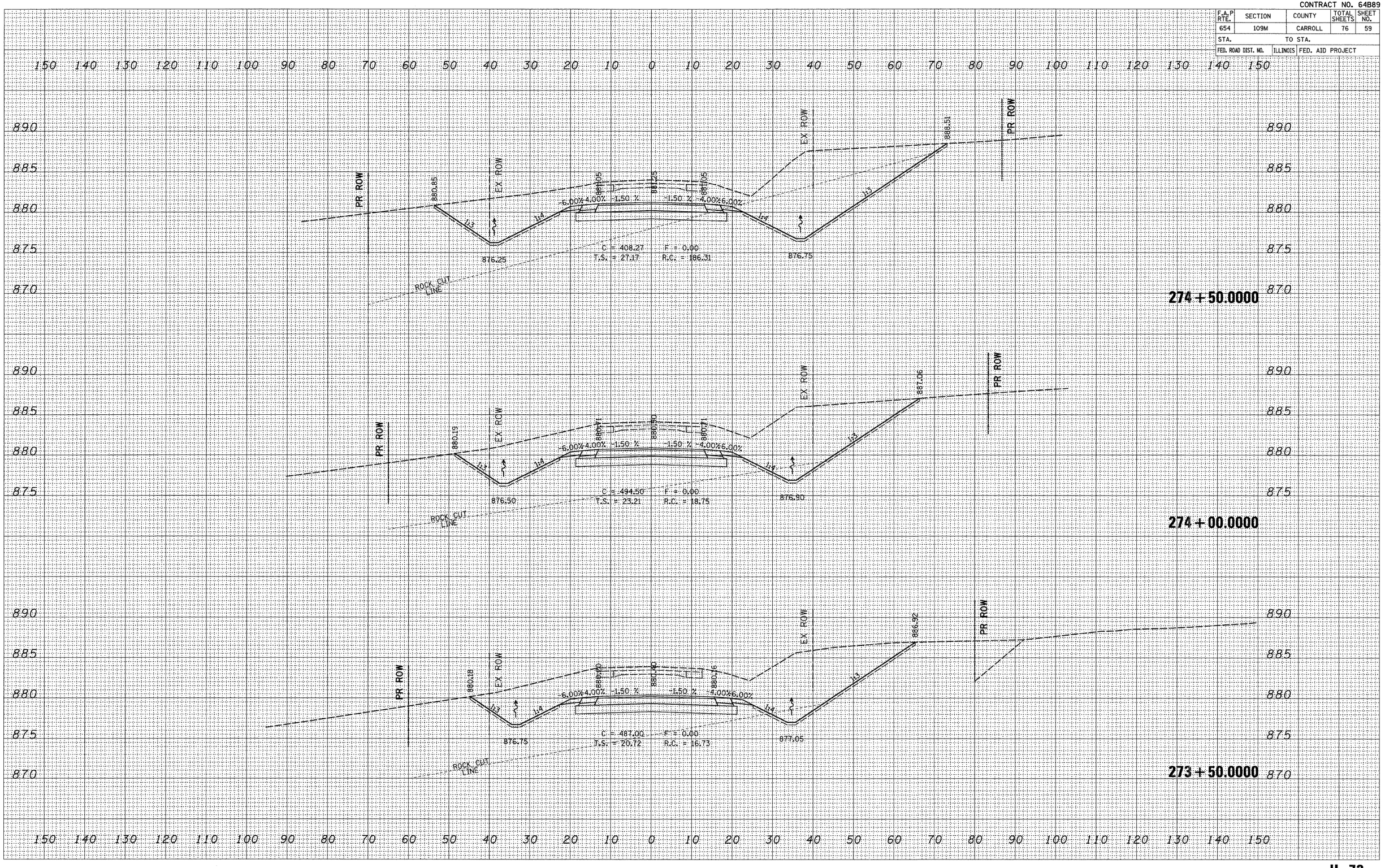
NOTE BOOK	SURVEYED	
NO.	PLOTTED	
	TEMPLATE	
	AREAS	
	AREAS CHECKED	



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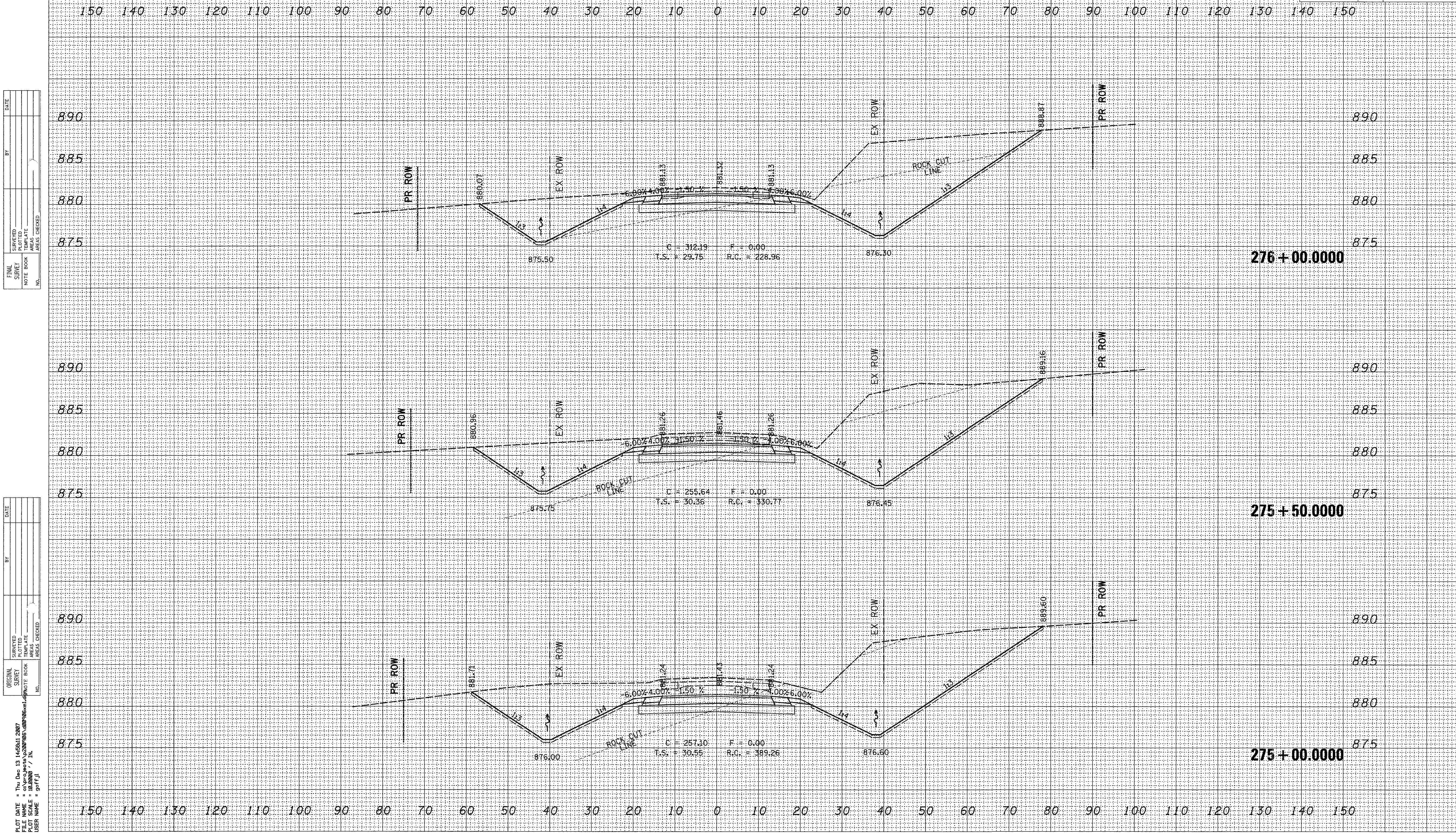
CONTRACT NO. 64B89

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
654	109M	CARROLL	76	60

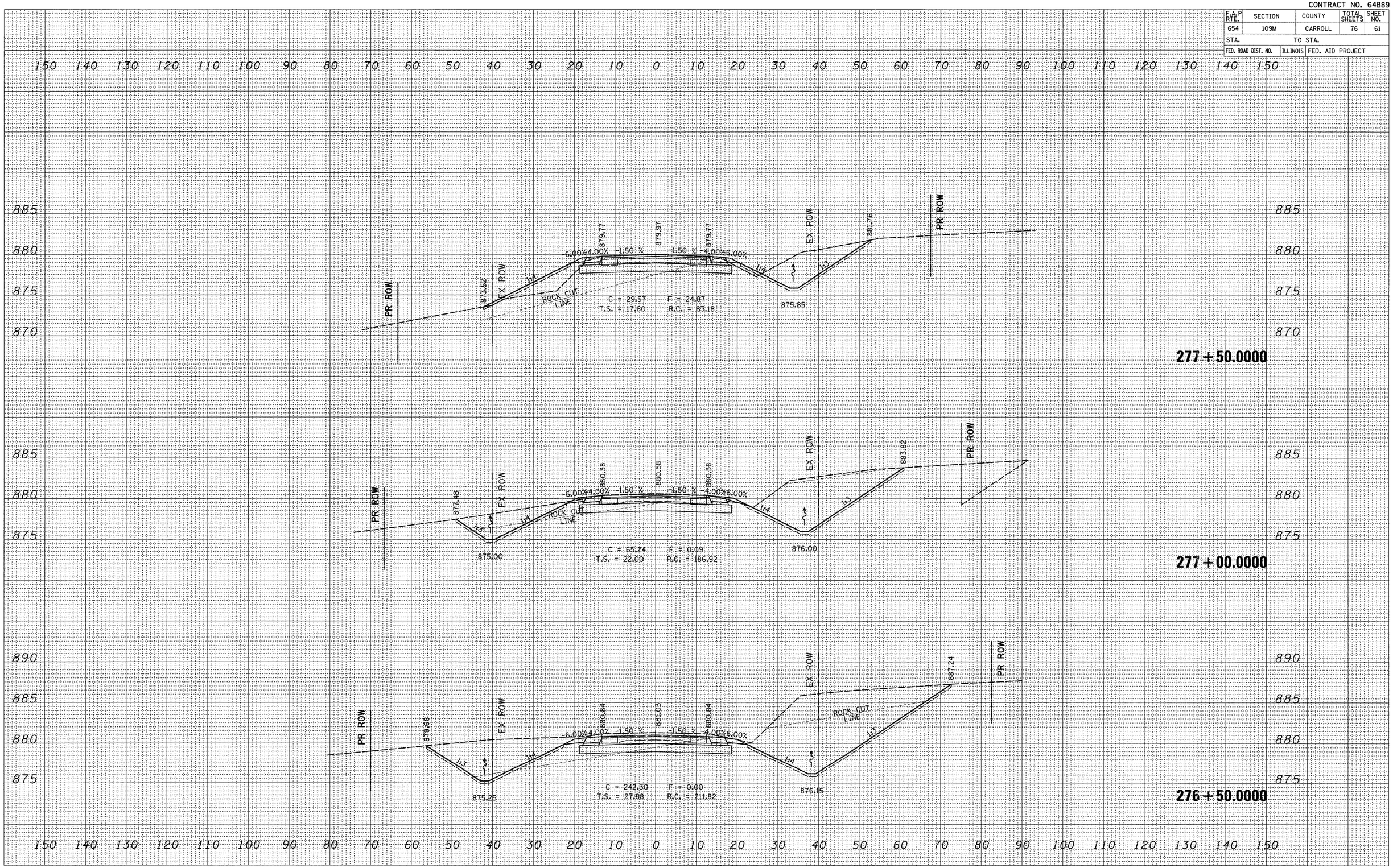
STA. TO STA.

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



CONTRACT NO. 64B89

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
654	109M	CARROLL	76	61
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



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NOTE BOOK	PLOTTED		
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	AREAS		
	AREAS CHECKED		

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NOTE BOOK	PLOTTED		
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	AREAS		
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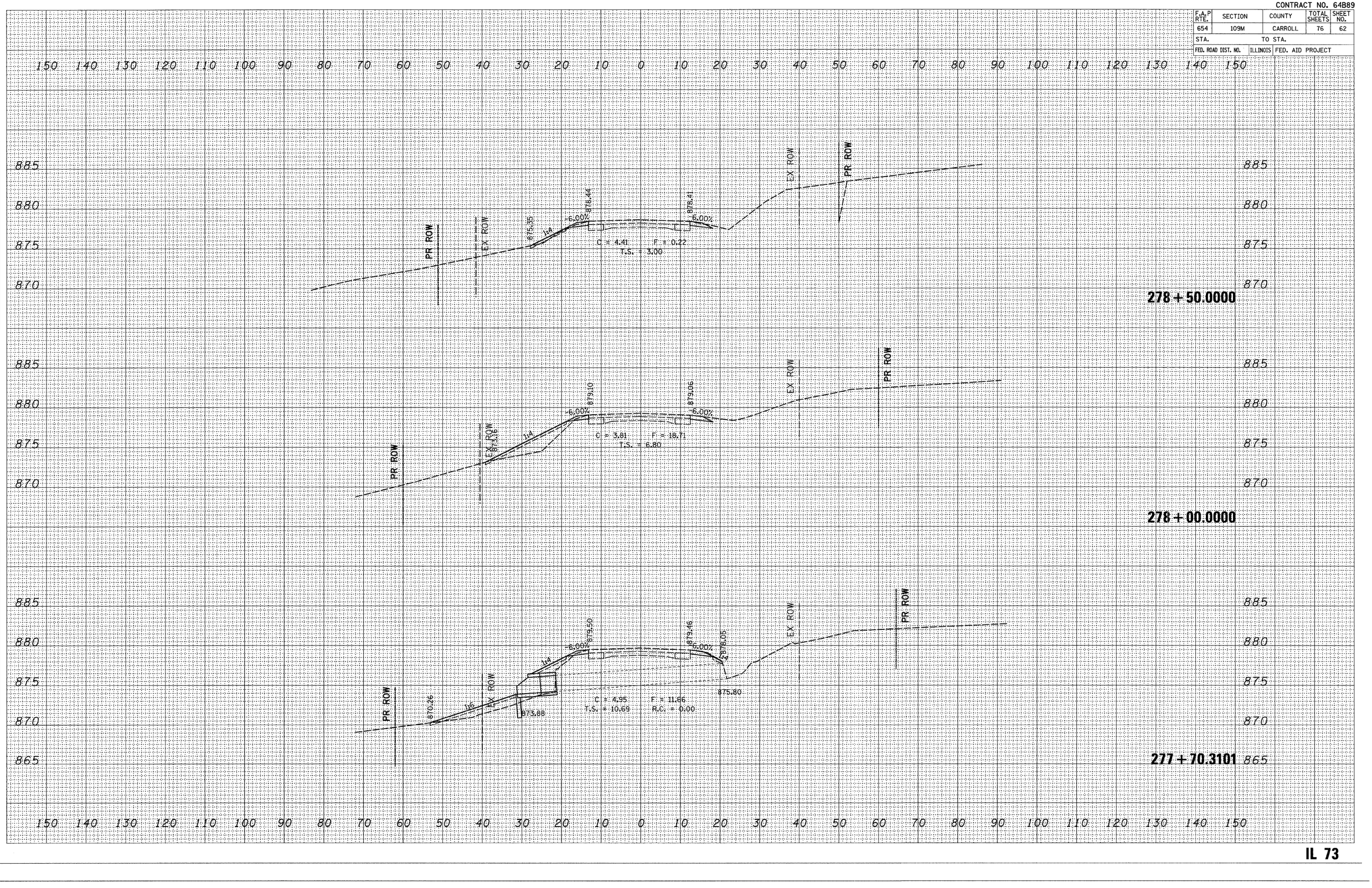
CONTRACT NO. 64B89

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
654	109M	CARROLL	76	62
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



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IL 73

CONTRACT NO. 64B89

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
654	109M	CARROLL	76	63
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150

885
880
875
870

EX. ROW

280 + 50.0000

885
880
875
870

EX. ROW

280 + 00.0000

885
880
875

EX. ROW

279 + 50.0000

885
880
875

PR. ROW
EX. ROW

C = 0.00 F = 0.00
T.S. + 0.00

EX. ROW
PR. ROW

279 + 00.0000

150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150

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

ORIGINAL SURVEY	BY	DATE
NOTE BOOK	SURVEYED	
NO.	PLOTTED	
	TEMPLATE	
	AREAS	
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IL 73

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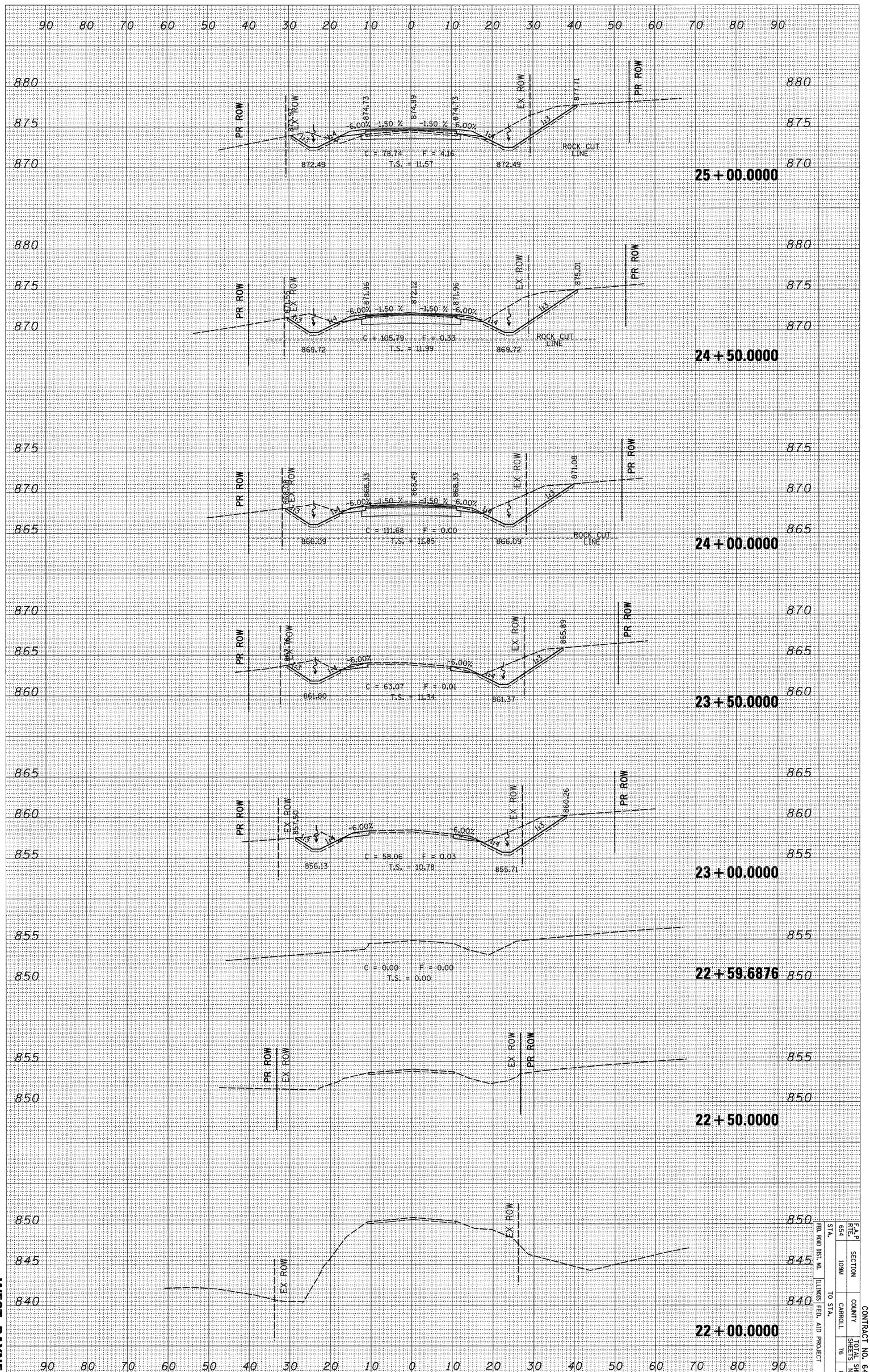
ORIGINAL SURVEY		BY	DATE
NOTE BOOK	SURVEYED		
	PLOTTED		
NO.	TEMPLATE		
	AREAS		
	AREAS CHECKED		

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



WEST PAYNE

CONTRACT NO. 64B89			
F.A.P. RTE. 654	SECTION 109M	COUNTY CARROLL	TOTAL SHEETS 76
FED. ROAD DIST. NO. ILLINOIS	FED. AID PROJECT	STA. TO STA.	SHEET NO. 64

CONTRACT NO. 64B89

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
654	109M	CARROLL	76	65
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

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

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

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26+00.0000

WEST PAYNE

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NOTE BOOK	SURVEYED		
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NO.	TEMPLATE		
	AREAS		
	AREAS CHECKED		

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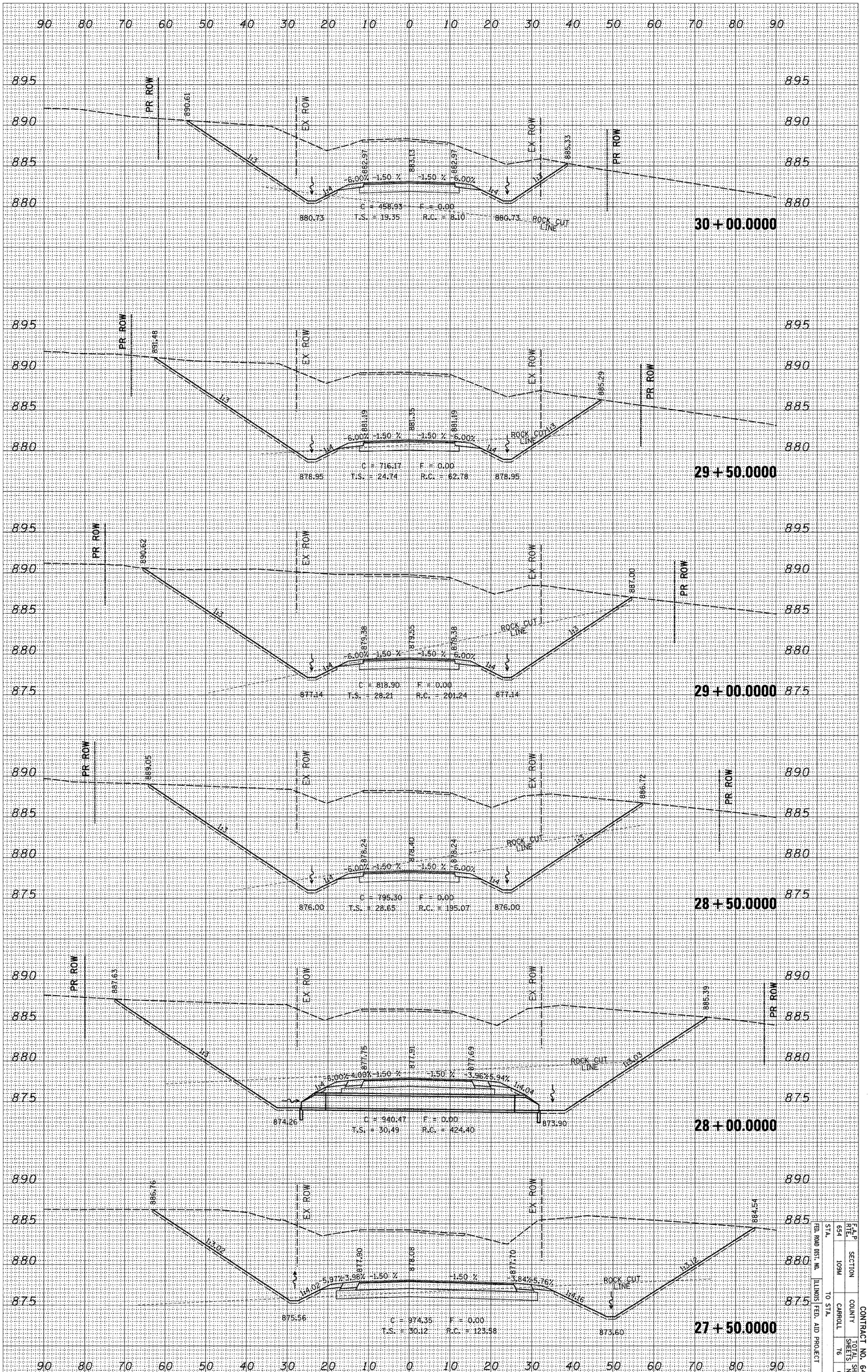

EAST PAYNE

CONTRACT NO. 64B89

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
654	109M	CARROLL	76	66

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

STA. TO STA.

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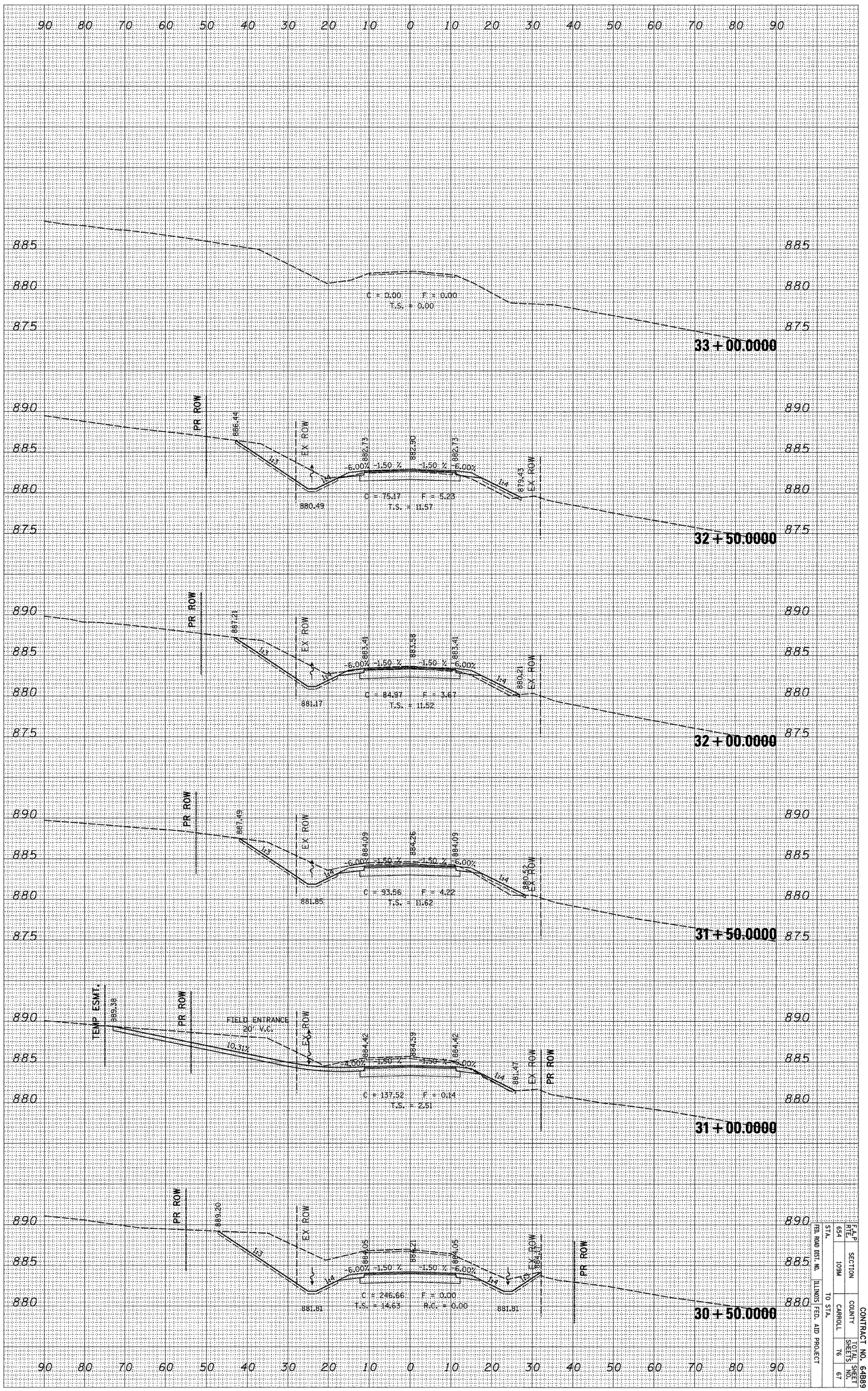


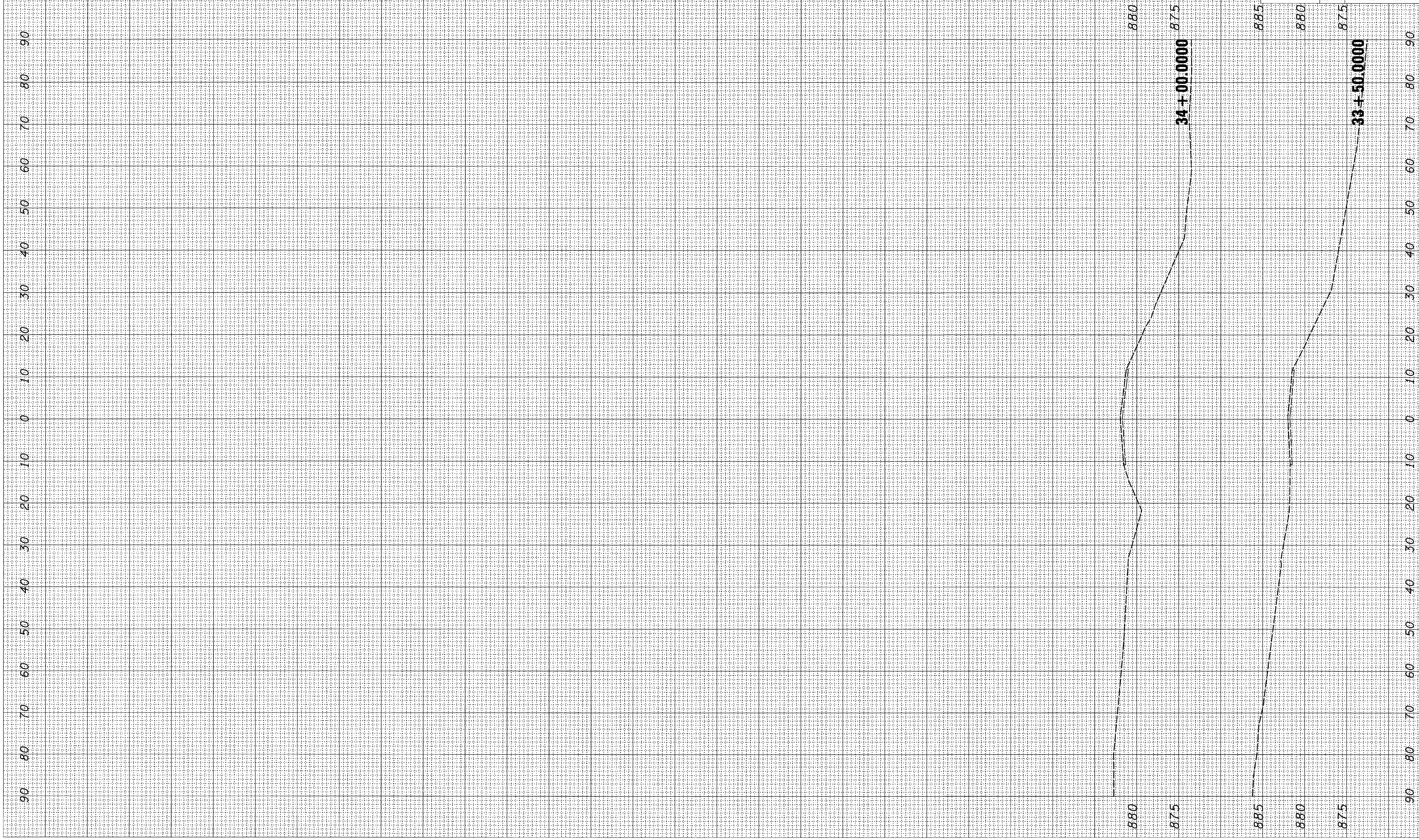
EAST PAYNE

FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
STA.	TO STA.	654	109M	CARROLL	76	67

CONTRACT NO. 64B89

CONTRACT NO. 64B89

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
654	109M	CARROLL	76	68
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



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

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

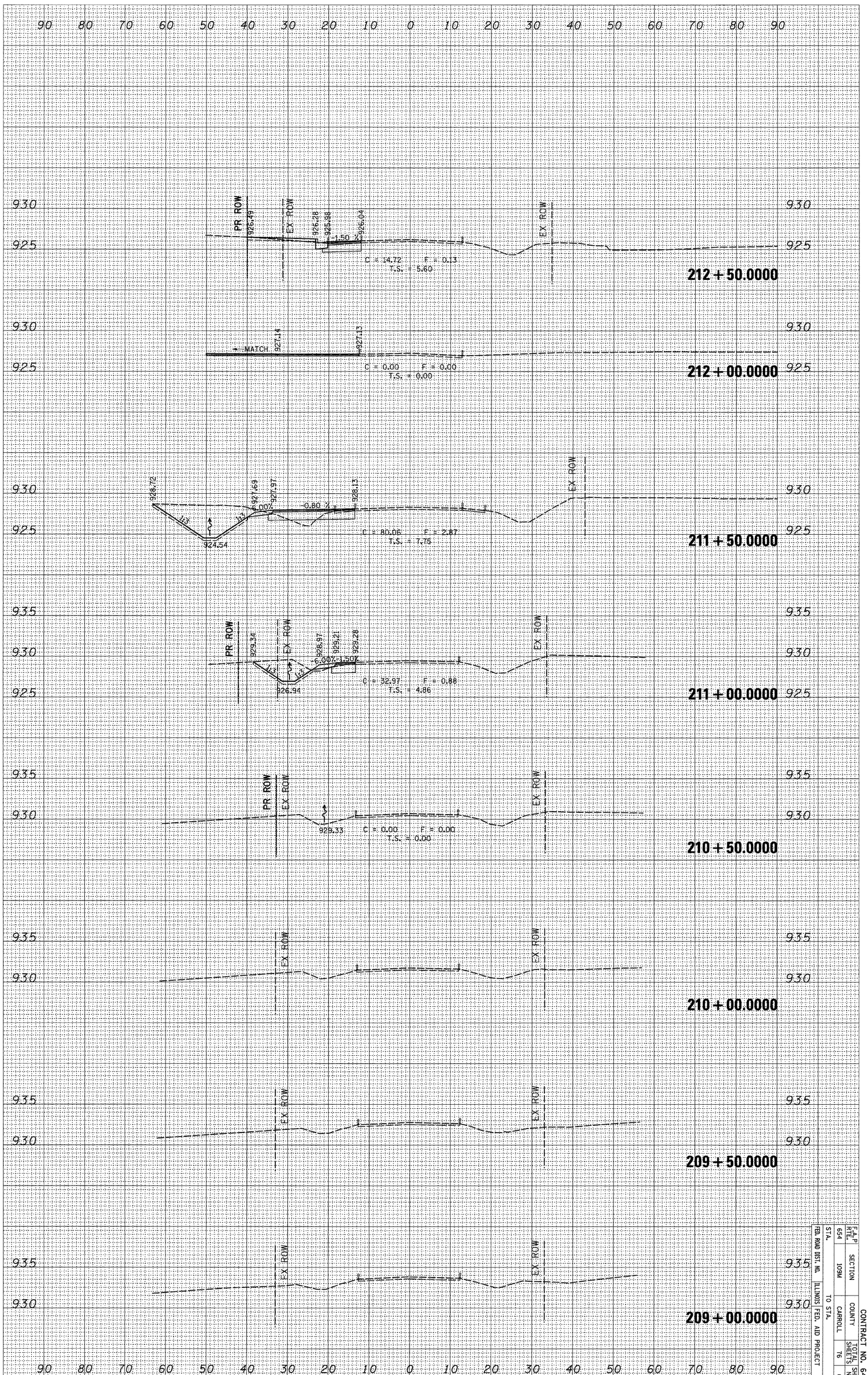
PLOT DATE = Thu Dec 13 15:24:14 2007
FILE NAME = c:\projects\p2009906\d009906xs1.dgn
PLOT SCALE = 10.0000 ' / IN.
USER NAME = goffjl

EAST PAYNE

PLOT DATE = Thu Dec 13 15:25:18 2007
FILE NAME = c:\projects\p200906\d00906xsdl.dgn
PLOT SCALE = 10.0000 ' / IN.
USER NAME = goffjl

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

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



F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
654	109M	CARROLL	76	69
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

CONTRACT NO. 64889

IL 72

PLOT DATE = Thu Dec 13 15:25:10 2007
FILE NAME = c:\projects\p200906\d00906xsdl.dgn
PLOT SCALE = 10.0000 ' / IN.
USER NAME = goffjl

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

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

90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90

925 920

EX. ROW EX. ROW

214 + 50.0000

925 920

EX. ROW EX. ROW

214 + 00.0000

930 925 920

EX. ROW EX. ROW

C = 0.00 F = 0.00
T.S. = 0.00

213 + 50.0000

930 925 920

TEMP. ESMT. PR. ROW EX. ROW

925.37 925.12 1.78 % 924.94 924.94 924.97 60K

EX. ROW

C = 9.57 F = 0.00
T.S. = 1.63

213 + 00.0000

930 925 920

TEMP ESMT. PR. ROW EX. ROW

925.49 1.21 % 925.31 925.31 925.34 60K

EX. ROW

C = 11.34 F = 0.00
T.S. = 0.00

212 + 83.5606

90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90

IL 72

CONTRACT NO. 64B89

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
654	109M	CARROLL	76	70

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

STA. TO STA.

PLOT DATE = Thu Dec 13 15:25:10 2007
FILE NAME = c:\proj_acta\p220906\d20906xsdl.dgn
PLOT SCALE = 10.0000 ' / IN.
USER NAME = goffjl

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

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

90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90

930
925

EX. ROW
EX. ROW

62+00.0000

930
925

EX. ROW
EX. ROW

61+81.5946

930
925

EX. ROW
EX. ROW

61+50.0000

930
925

EX. ROW
EX. ROW

C = 0.00 F = 0.00
T.S. = 0.00

61+43.6357

930
925

PR ROW
EX. ROW
926.79
926.96
927.20
927.48
927.03
EX. ROW
PR ROW
926.91
TEMP ESMT.
-6.00%
-2.63 %
-1.50 %
-3.10 %
925.72
C = 14.14 F = 0.74
T.S. = 0.58

61+00.0000

930
925

PR ROW
EX. ROW
926.79
926.85
927.16
927.57
926.69
EX. ROW
926.39
PR ROW
926.91
TEMP ESMT.
-6.00%
-2.03 %
-1.50 %
-1.50 %
-4.27 %
924.54
C = 78.35 F = 0.03
T.S. = 10.87

60+50.0000

90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90

SHANNON RD

CONTRACT NO. 64889

FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT	F.A.P. RTE.
STA.	109M	SECTION	654
TO STA.	CARROLL	COUNTY	TOTAL SHEETS 76
			SHEET NO. 71

PLOT DATE = Thu Dec 13 15:25:11 2007
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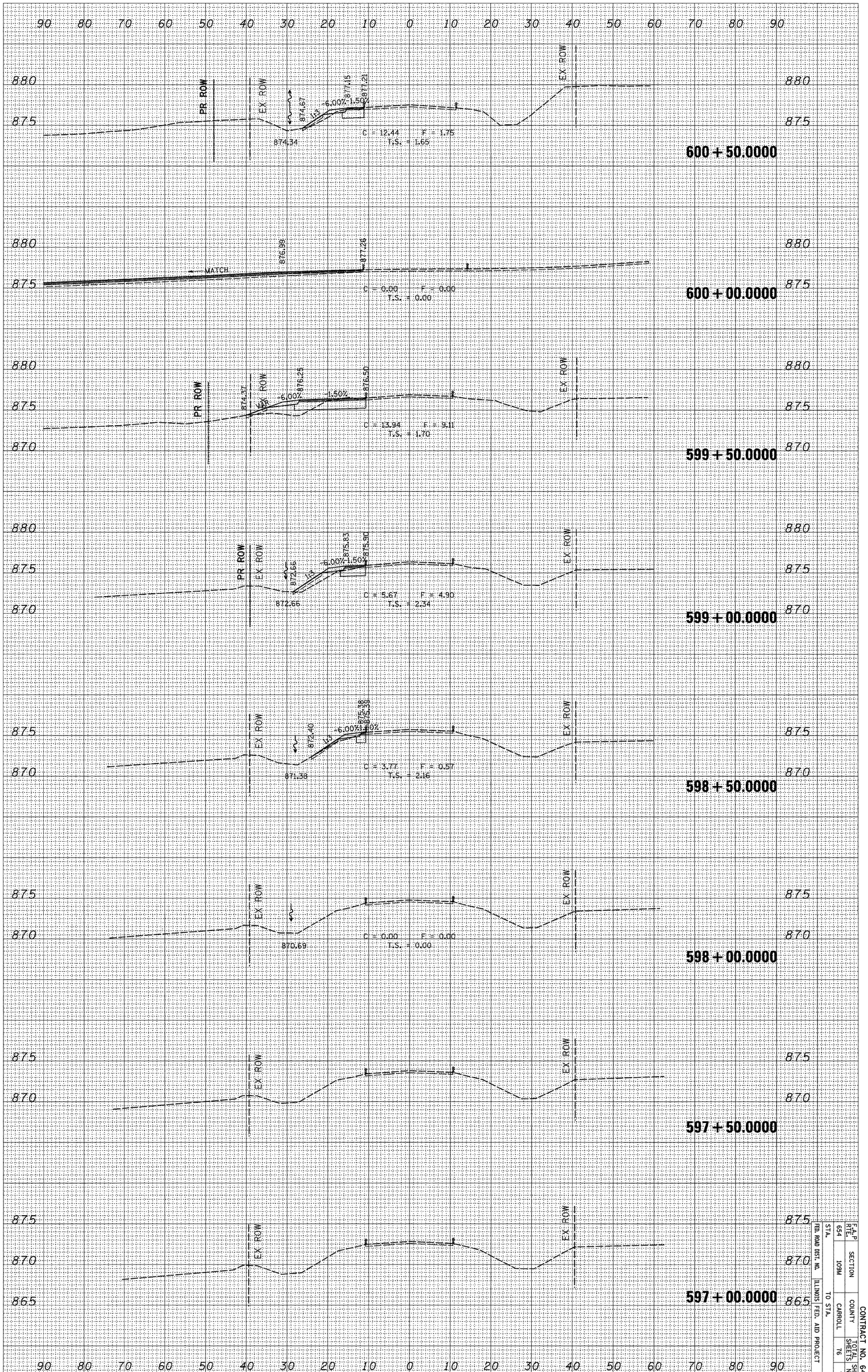
USER NAME = goffjl

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

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

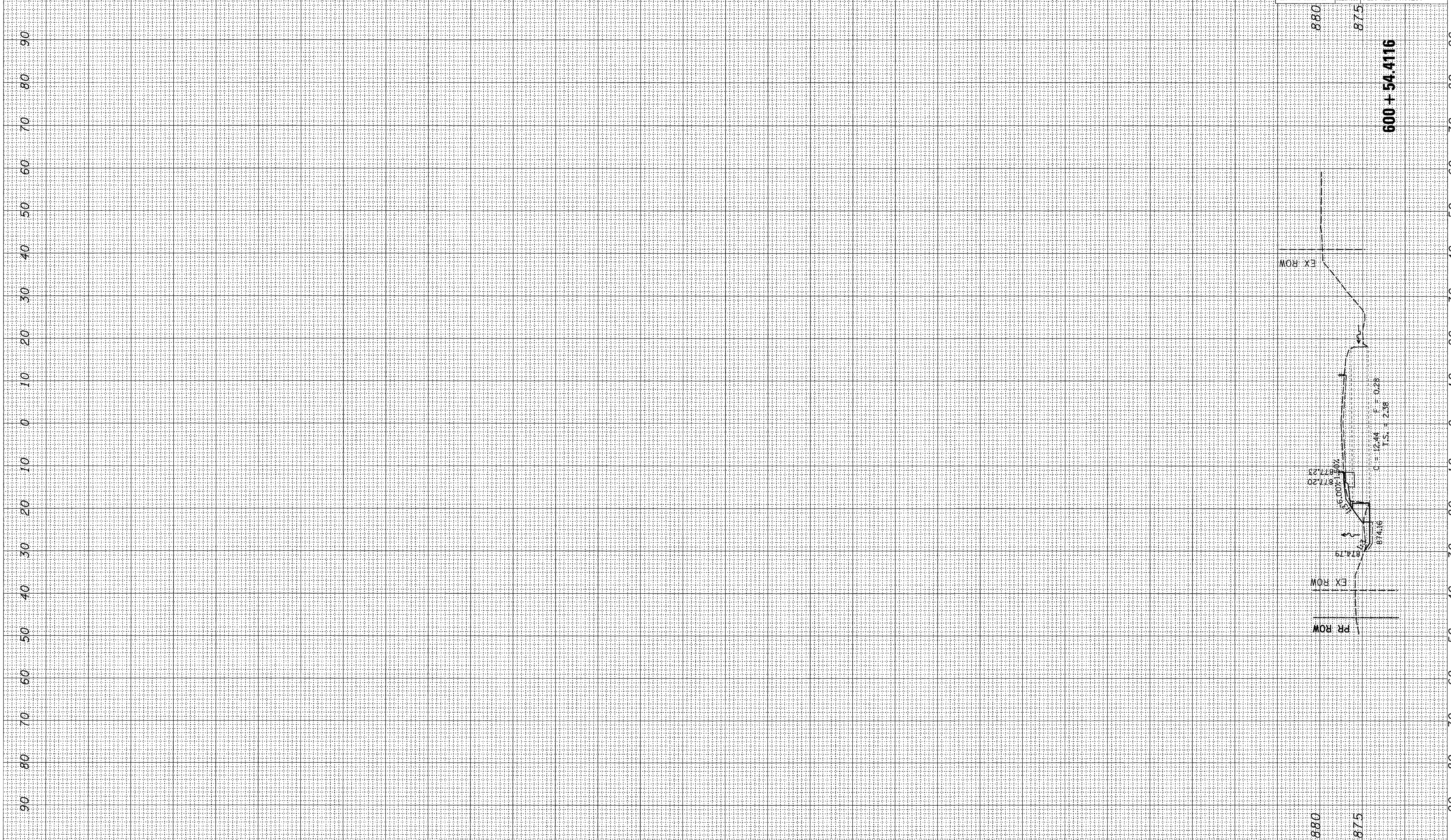


WEST BOLTON RD

CONTRACT NO. 64B89			
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS / SHEET NO.
654	109M	CARROLL	76 / 72
STA.	TO STA.	ILLINOIS FED. AID PROJECT	
FED. ROAD DIST. NO.			

CONTRACT NO. 64B89

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
654	109M	CARROLL	76	73
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



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

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

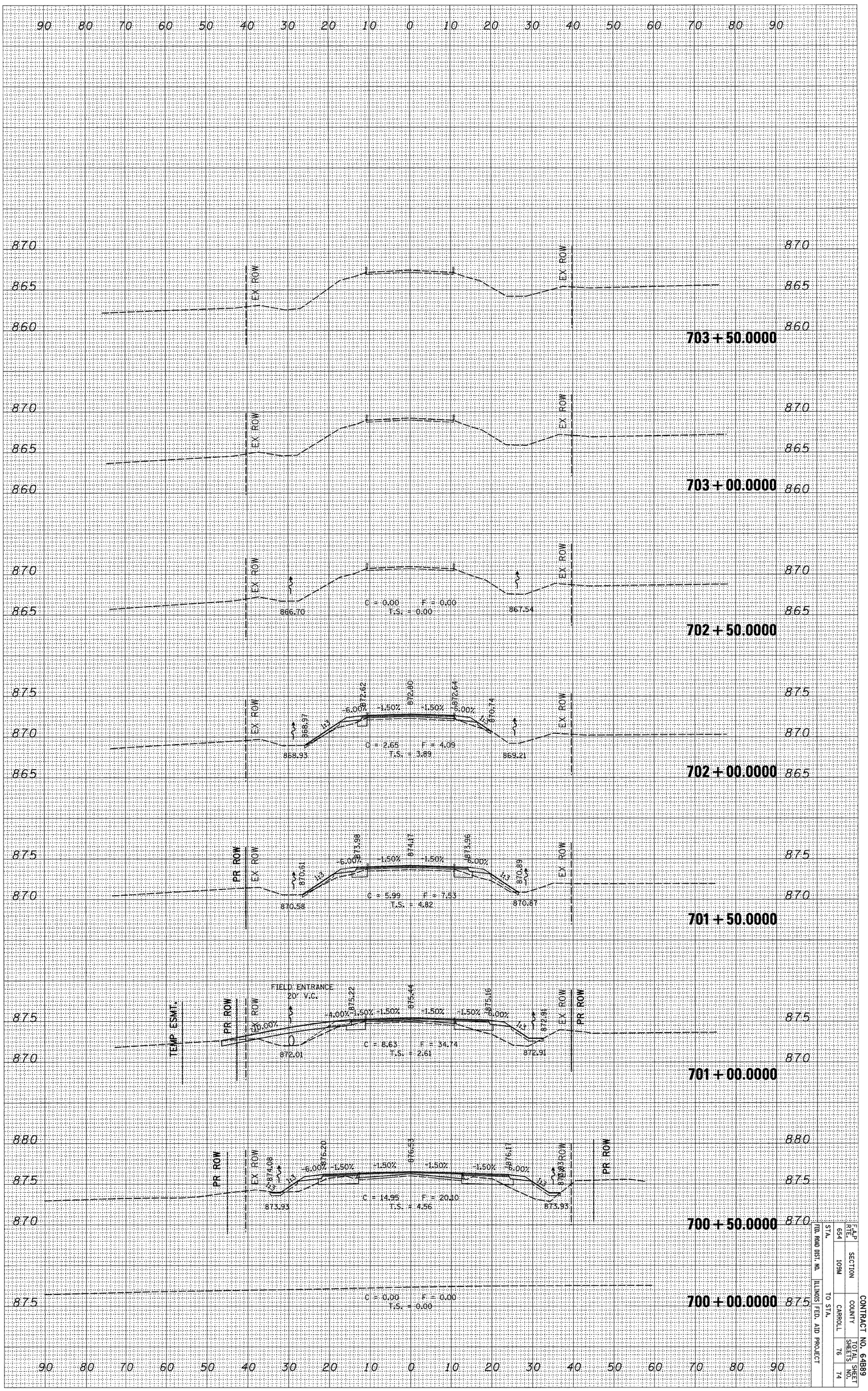
PLOT DATE = Thu Dec 13 15:25:11 2007
FILE NAME = c:\projects\p2007\...
PLOT SCALE = 10.0000 ' / IN.
USER NAME = goffjl

WEST BOLTON RD

PLOT DATE = Thu Dec 13 15:25:11 2007
FILE NAME = c:\projects\p2007986\d07986xsd1.dgn
PLOT SCALE = 10.0000 ' / IN.
USER NAME = goffjl

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

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



SOUTH BOLTON RD

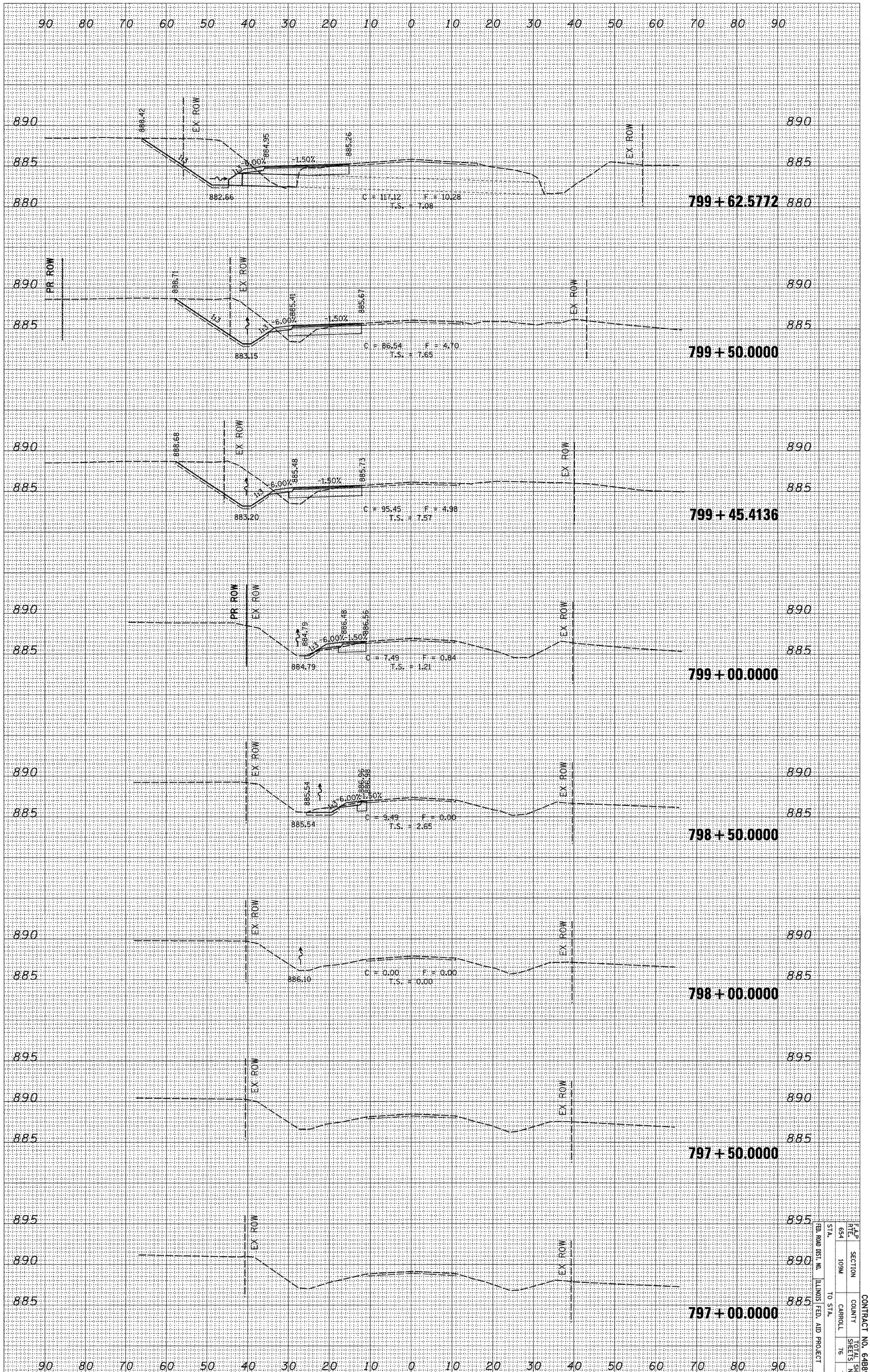
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
654	109M	CARROLL	76	74
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

CONTRACT NO. 64B89

PLOT DATE = Thu Dec 13 15:25:11 2007
FILE NAME = c:\projects\p2207986\d207986sddl.dgn
PLOT SCALE = 10.0000 ' / IN.
USER NAME = goffjl

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

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



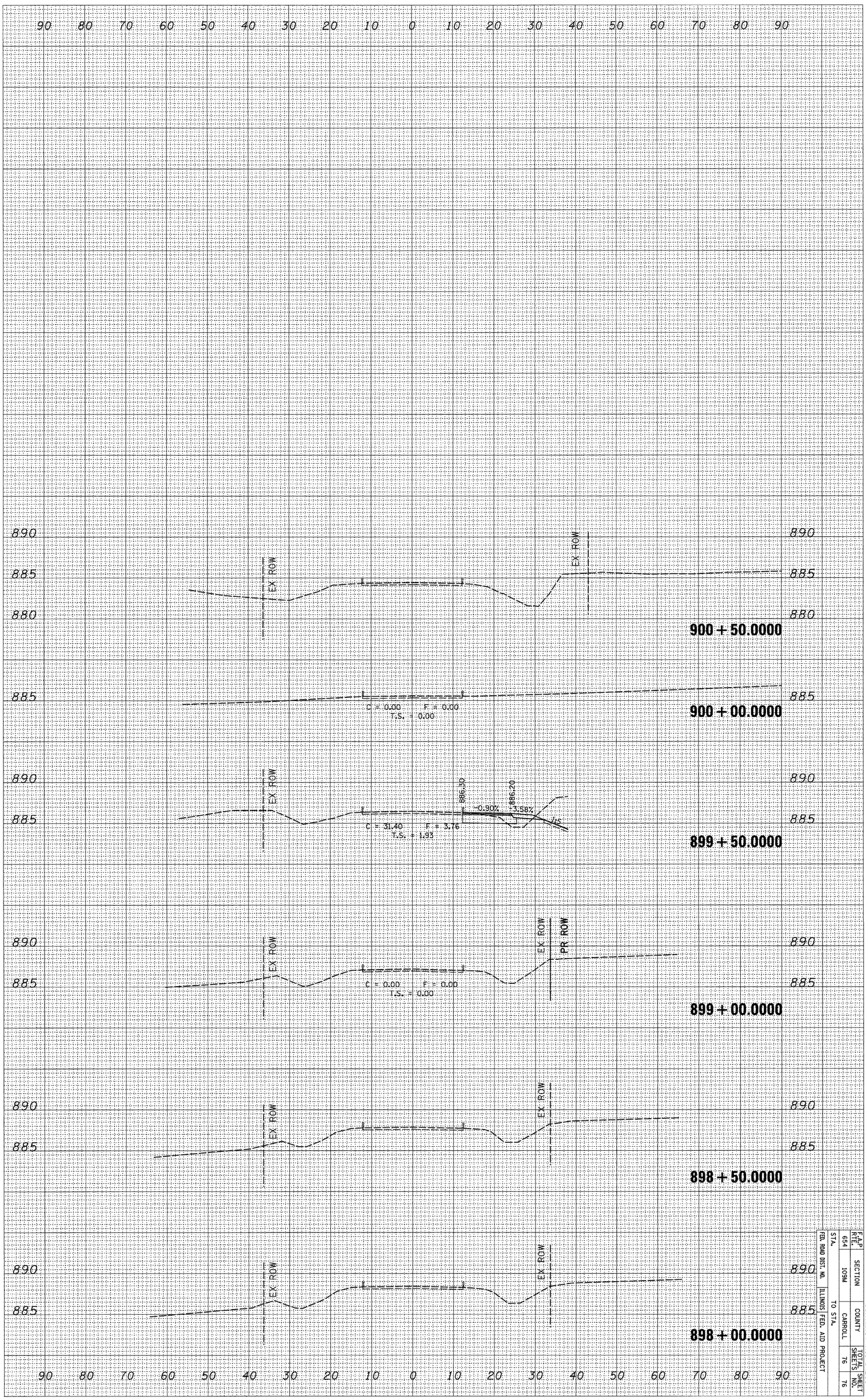
SOUTH BOLTON RD

CONTRACT NO. 64889			
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
654	109M	CARROLL	76	75
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		
STA.		TO STA.		

PLOT DATE = Thu Dec 13 15:25:12 2007
FILE NAME = c:\projects\p2007026\d007026xsdl.dgn
PLOT SCALE = 10.0000 ' / IN.
USER NAME = goff.jl

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

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



PEARL CITY RD

CONTRACT NO. 64B89					
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT			
STA.		TO STA.			
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
654	109M	CARROLL	76	76	