

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
654	109 T	CARROLL	36	1

PROJECT ENGINEER: MASOOD AHMAD

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

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

**PROPOSED
HIGHWAY PLANS**

FAP ROUTE 654 (IL 73)
SECTION 109 T
PROJECT F-0654(015)
CARROLL COUNTY

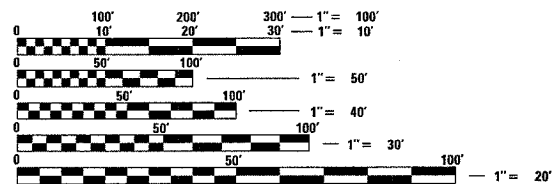
C-92-010-07

INDEX OF SHEETS

- 1 Cover Sheet
- 2-3 General Notes
- 4-5 Summary of Quantities
- 6-9 Typical Sections
- 10-13 Schedule of Quantities
- 14-15 Horizontal and Vertical Control
- 16-17 Plan and Profile Sheets
- 18 Erosion Control, Seeding, & R.O.W. Details
- 19 Pavement Elevation Sheet
- 20 Solar Power Flasher Detail
- 21-22 Boring Logs
- 23 Delineator and Post Orientation (Dist Std 37.4)
- 23 Typical Benching Detail on Existing Embankment (Dist Std 50.4)
- 23 Tree Replacement Schedule (Dist Std 90.4)
- 23 Drain for Agg Base Course (Dist Std 96.4)
- 24 Erosion Control Details for Silt Fence (Dist Std 29.2)
- 24 Witness Marker & Permanent survey Markers, Type II (Dist Std 66.2)
- 25 Three Center Curve Data (Dist Std 92.2)
- 26 Concrete Collars for Pipe or Box Culverts Extensions (Dist Std 33.1)
- 27 Traffic Control for Road Closure (Dist Std 40.1)
- 28-29 Typical Pavement Markings (Dist Std 41.1)
- 30 Detail of Precast Concrete Box Culverts and End Sections (Dist Std 71.1)
- 31 Details of Planting and Bracing Tree Replacement Schedule (Dist Std 92.1)
- 32-36 Cross Sections

STATE STANDARDS

- 000001 - 04 Standard Symbols, Abbreviations, and Patterns
- 001001 - 01 Areas and Spacing for Reinforcement Bars
- 280001 - 03 Temporary Erosion Control Systems
- 515001 - 02 Name Plates for Bridges
- 542401 Metal End Sections for Pipe Culverts
- 630301 - 04 Shoulder Widening for Type I (special) Guardrail Terminals
- 635001 Delineators
- 635006 - 02 reflective and terminal marker placement
- 665001 - 01 Fence, Woven Wire
- 666001 Right-Of-Way Markers
- 667101 Permanent Survey Markers
- 701201 - 02 Typical Application of Traffic Control Standard
- 701301 - 02 Lane closure, 2L, 2W, Short Time Operations
- 701311 - 02 Lane Closure, 2L, 2W, Moving - Day Only
- 701326 - 02 Typical Application of Traffic Control Standard
- 702001 - 06 Traffic Control Devices
- 720011 Metal Posts for Signs, Markers & Delineators
- 728001 Telescoping Steel Sign Support
- 729001 Application Types A and B Metal Posts(for signs and markers)

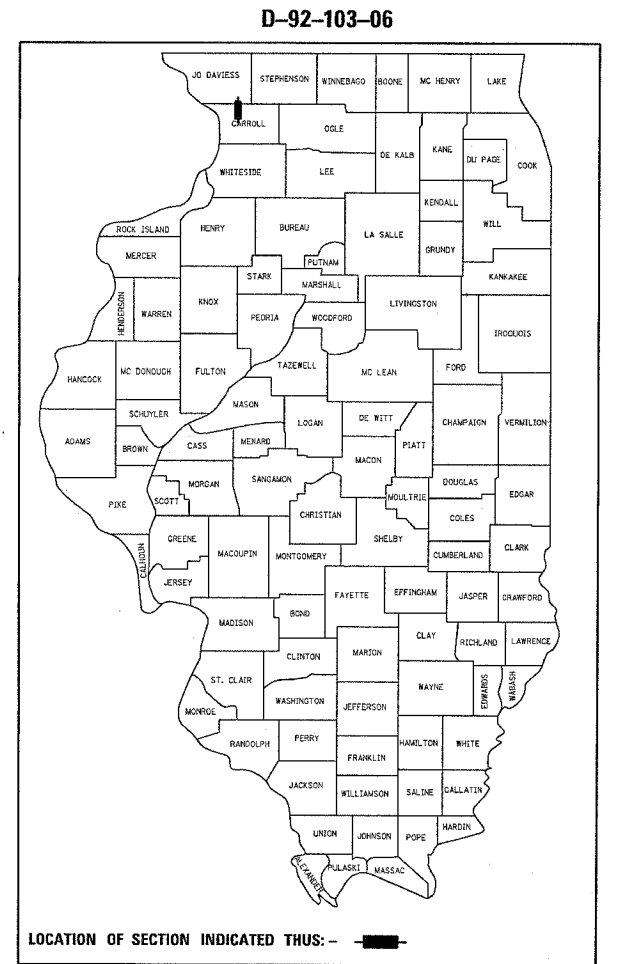
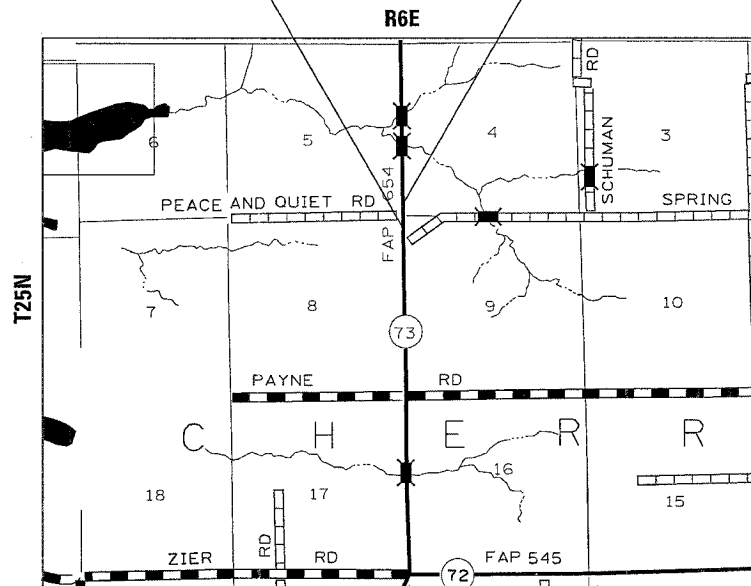


FULL SIZE PLANS HAVE BEEN PREPARED USING STANDARD ENGINEERING SCALES. REDUCED SIZED PLANS WILL NOT CONFORM TO STANDARD SCALES. IN MAKING MEASUREMENTS ON REDUCED PLANS, THE ABOVE SCALES MAY BE USED.

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

CHERRY GROVE TOWNSHIP, SECTION 4, 5, 8
CONTRACT NO. 64C60

IMPROVEMENT BEGINS STA 324+20
IMPROVEMENT ENDS STA 330+50



STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

SUBMITTED March 19 2007

George F. Ryan
DEPUTY DIRECTOR OF HIGHWAYS, REGION ENGINEER

May 11, 20 07
Eric E. Harold
ENGINEER OF DESIGN AND ENVIRONMENT

May 11, 20 07
Milton R. See, P.E./R.D.
DIRECTOR OF HIGHWAYS, CHIEF ENGINEER

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

GROSS LENGTH OF PROJECT = 630.0 LIN. FT. = 0.119 MI.
NET LENGTH = 630.0 LIN. FT. = 0.119 MI.

GENERAL NOTES

ROUTE NO.	SEC.	COUNTY	TOTAL SHEETS	SHEET NO.
FAP 654 (IL 73)	109T	Carroll	36	2
FED ROAD DIST. NO.	ILLINOIS	PROJECT		
Contract #64C60				

See cross sections for special ditches and backslopes.

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

The 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.

Layout of trees shall be performed by the District Landscape Architect. Mulch shall be hardwood chips, 5 foot width, 4 inches thick with weed barrier fabric. Alternate planting site shall be along IL 72 between Lanark and IL 73 junction.

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

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

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.

The following Mixture Requirements are applicable for this project:

Mixture Uses(s):	Incidental		
PG:	PG 64-22		
Design Air Voids	4.2 @ N50		
Mixture Composition (Gradation Mixture)	IL 9.5 or 12.5		
Friction Aggregate	C		
20 Year ESAL	1.2		

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

The structure will retain the same number: 008-1035.

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)

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 clean out all AR culverts and stream flows to the right-of-way lines on the entire section. The cost shall be included in the contract unit price for PRECAST CONCRETE BOX CULVERT 2'x3'.

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

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

Embankment quantities for the construction of the Traffic Barrier Terminals as shown in the plans are included in quantities for Earth Excavation.

The Contractor shall supply the Resident Engineer with the manufacturer's installation requirements for the type of Steel Plate Beam Guardrail Terminal Type 1 Special (Tangent) or Steel Plate Beam Guardrail Terminal Type I Special (Flared).

One 16d galvanized nail shall be used to toe nail the wood block out to the wood post on all Traffic Barrier Terminal Type I Specials.

The additional embankment required to build up the shoulder for the Traffic Barrier Terminal, as shown on the plans, shall be hauled from excess earth excavation from within the project and shall be placed prior to the installation of the terminal. The cost of this work shall be included in the contract unit price per EARTH EXCAVATION.

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

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

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

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

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

GENERAL NOTES

ROUTE NO.	SEC.	COUNTY	TOTAL SHEETS	SHEET NO.
FAP 654 (IL 73)	109T	Carroll	36	3
FED ROAD DIST. NO.	ILLINOIS	PROJECT		

Contract #64C60

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: ___ Each.

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

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

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

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

The 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
NICOR Gas Co.

Commonwealth Edison
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.

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

SUMMARY OF QUANTITIES

CONTRACT NO. 64C60				
F.A.P. RITE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
654	109 T	CARROLL	36	4
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

CODE NUMBER	ITEM	UNITS	TOTAL QUANTITY	80% Federal 20% STATE Y007	50% STATE 50% COUNTY** Y031-1F
20100110	TREE REMOVAL (6 TO 15 UNITS DIAMETER)	UNIT	191	191	
20100210	TREE REMOVAL (OVER 15 UNITS DIAMETER)	UNIT	76	76	
20101400	NITROGEN FERTILIZER NUTRIENT	POUND	110	110	
20101500	PHOSPHORUS FERTILIZER NUTRIENT	POUND	110	110	
2 0101600	POTASSIUM FERTILIZER NUTRIENT	POUND	110	110	
20200100	EARTH EXCAVATION	CU YD	1755	1755	
20400800	FURNISHED EXCAVATION	CU YD	1136	1136	
21001000	GEOTECHNICAL FABRIC FOR GROUND STABILIZATION	SO YD	909	909	
21101615	TOPSOIL FURNISH AND PLACE, 4"	SO YD	2952	2952	
25000210	SEEDING, CLASS 2A	ACRE	0.4	0.4	
25000310	SEEDING, CLASS 4	ACRE	0.21	0.21	
25000750	MOWING	ACRE	0.2	0.2	
25100115	MULCH, METHOD 2	ACRE	0.61	0.61	
25100630	EROSION CONTROL BLANKET	SO YD	158	158	
28000250	TEMPORARY EROSION CONTROL SEEDING	POUND	160	160	
28000300	TEMPORARY DITCH CHECKS	EACH	28	28	
28000400	PERIMETER EROSION BARRIER	FOOT	231	231	
28000500	INLET AND PIPE PROTECTION	EACH	2	2	
31100935	SUB-BASE GRANULAR MATERIAL, TYPE A 18"	SO YD	909	909	
40600990	TEMPORARY RAMP	SO YD	54	54	
40800050	INCIDENTAL HOT-MIX ASPHALT SURFACING	TON	186	186	
48101200	AGGREGATE SHOULDERS, TYPE B	TON	214	214	
50100200	REMOVAL OF EXISTING STRUCTURES	L SUM	1	1	
50800105	REINFORCEMENT BARS	POUND	61	61	
51500100	NAME PLATES	EACH	1	1	

NON-PARTICIPATING 100% STATE

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SUMMARY OF QUANTITIES

CONTRACT NO. 64C60				
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
654	109 T	CARROLL	36	5
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

CODE NUMBER	ITEM	UNITS	TOTAL QUANTITY	80% Federal 20% STATE Y007	50% STATE 50% COUNTY** Y031-1F
54002020	EXPANSION BOLTS 3/4 INCH	EACH	6	6	
54010203	PRECAST CONCRETE BOX CULVERT 2' X 3'	FOOT	27	27	
54213471	END SECTIONS 36"	EACH	1	1	
542D1081	PIPE CULVERTS, CLASS D, TYPE 2 36"	FOOT	94	94	
54248510	CONCRETE COLLAR	CU YD	1	1	
63100167	TRAFFIC BARRIER TERMINAL TYPE 1,SPECIAL (TANGENT)	EACH	2	2	
63200310	GUARDRAIL REMOVAL	FOOT	265	265	
63500105	DELINEATORS	EACH	5	5	
66600105	FURNISHING AND ERECTING RIGHT-OF-WAY MARKERS	EACH	9	9	
66700305	PERMANENT SURVEY MARKERS, TYPE II	EACH	2	2	
67100100	MOBILIZATION	L SUM	1	1	
70100450	TRAFFIC CONTROL AND PROTECTION, STANDARD 701201	L SUM	1	1	
70100500	TRAFFIC CONTROL AND PROTECTION, STANDARD 701326	L SUM	1	1	
• 78001110	PAINT PAVEMENT MARKING - LINE 4"	FOOT	4016	4016	
• 78001180	PAINT PAVEMENT MARKING - LINE 24"	FOOT	70	70	
• 78201000	TERMINAL MARKER - DIRECT APPLIED	EACH	2	2	
• A2007814	TREE, TILIA AMERICANA (AMERICAN LINDEN / BASSWOOD), 1-3/4" CALIPER, BALLED AND BURLAPPED	EACH	10	10	
• B2000562	TREE, AMELANCHIER CANADENSIS (SHADBLOW SERVICEBERRY), 4' HEIGHT, SHRUB FORM, BALLED AND BURLAPPED	EACH	12	12	
X7013015	TRAFFIC CONTROL FOR ROAD CLOSURE	L SUM	1	1	
X0325519	DRAIN FOR AGGREGATE BASE COURSE	SQ YD	1	1	
X0323660	DROP BOX NO.1	EACH	1	1	
X0323661	DROP BOX NO.2	EACH	1	1	
•• XX005938	SOLAR -POWERED FLASHING BEACON ASSEMBLY (COMPLETE)	EACH	4		4
Z0020900	ESTABLISHING AND REFERENCING LAND SECTION MARKERS	EACH	1	1	
Z0013798	CONSTRUCTION LAYOUT	L SUM	1	1	

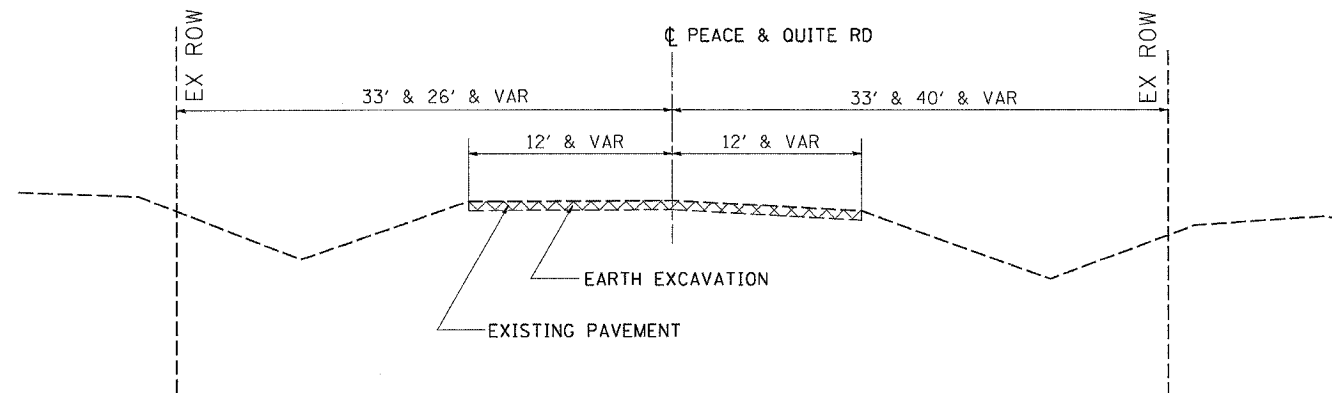
*specialty items
 ••cost for the solar-powered flashers is split with Stephenson County.

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 PLOT SHEETS = 36

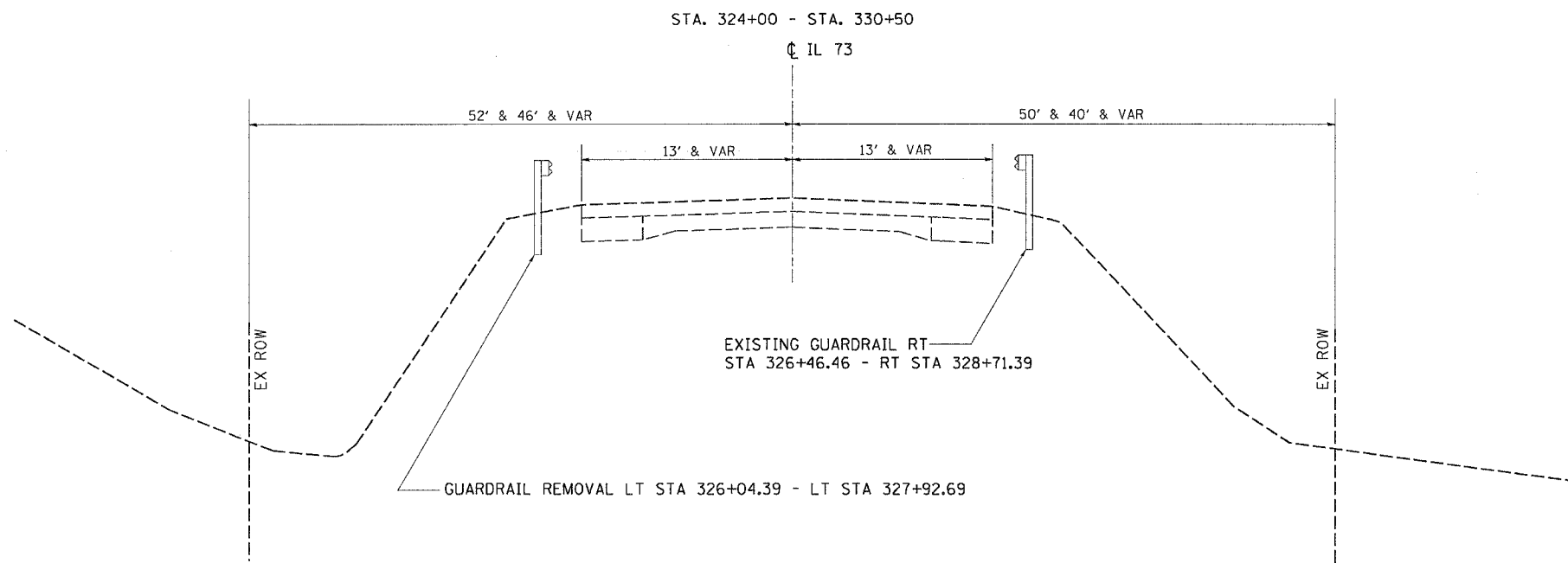
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
654	109 T	CARROLL	36	6
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	

TYPICAL SECTIONS

EXISTING PEACE & QUIET ROAD TYPICAL



EXISTING IL 73 TYPICAL



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REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

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 HORIZ.
 DATE

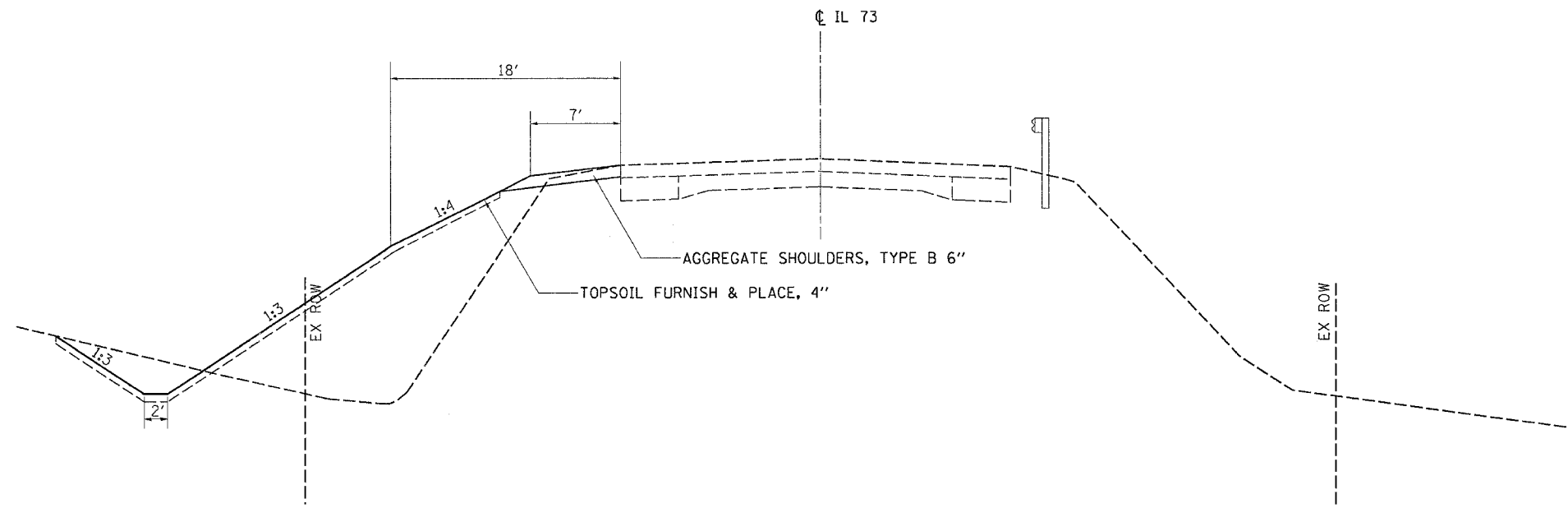
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TYPICAL SECTIONS

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	

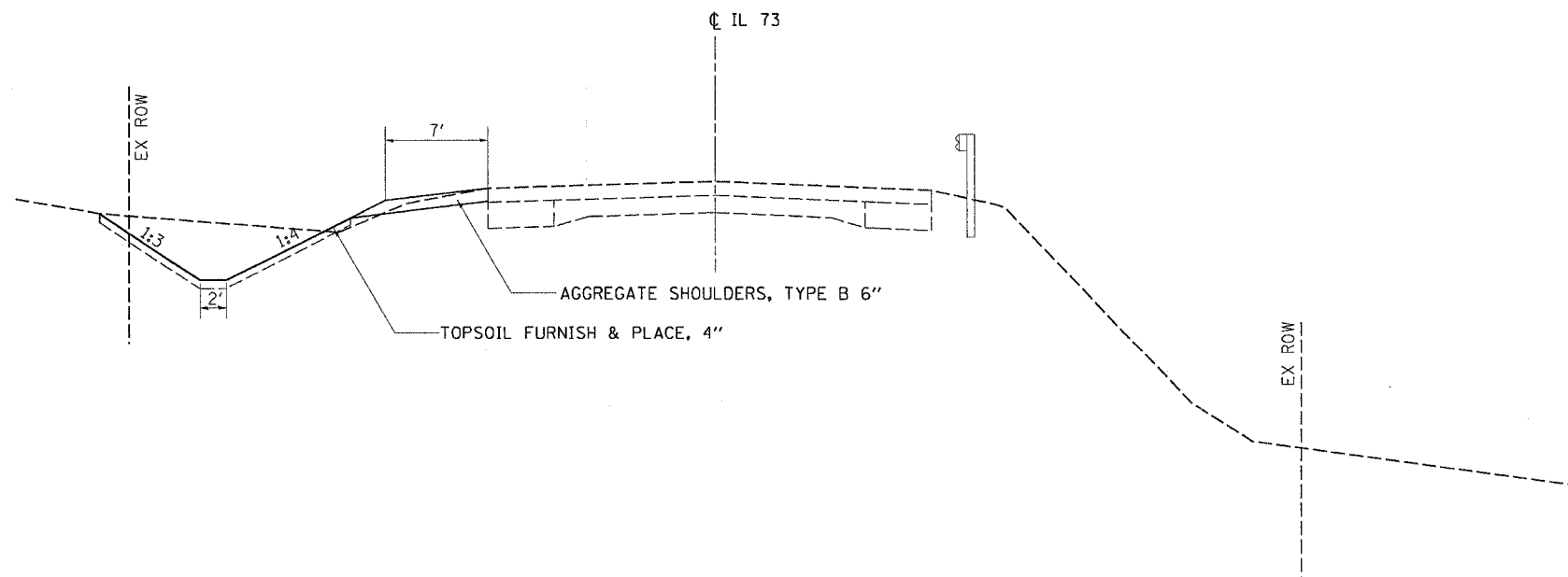
PROPOSED IL 73 TYPICAL

STA. 326+00 - STA. 329+50



PROPOSED IL 73 TYPICAL

STA. 324+00 - STA. 326+00 & STA 329+50 - STA 330+50



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REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

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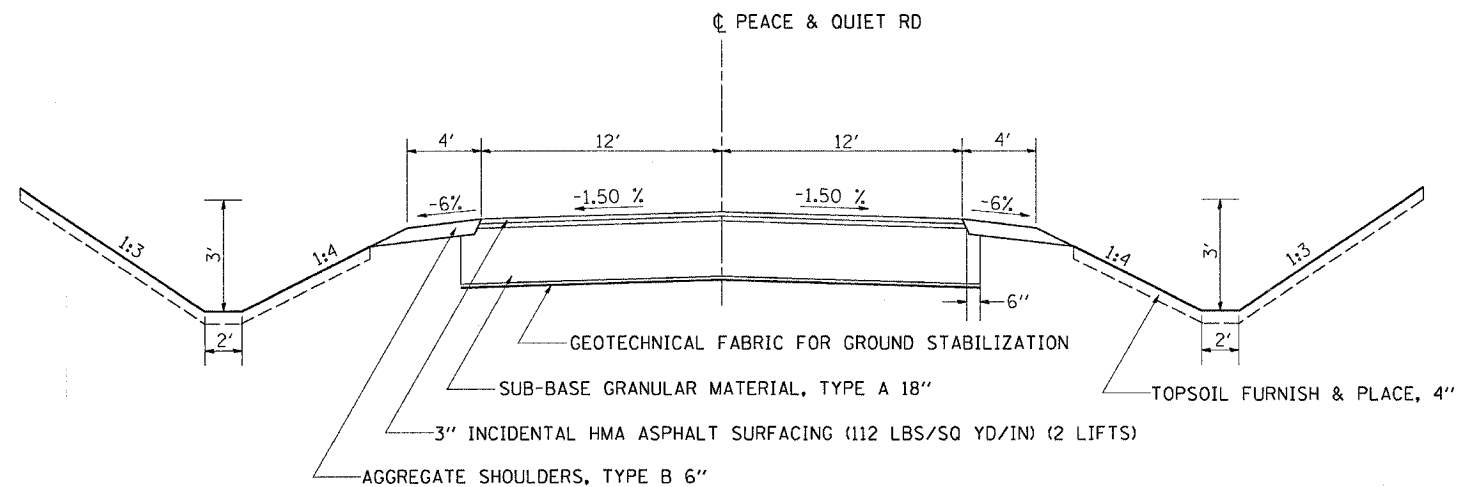
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F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

TYPICAL SECTIONS

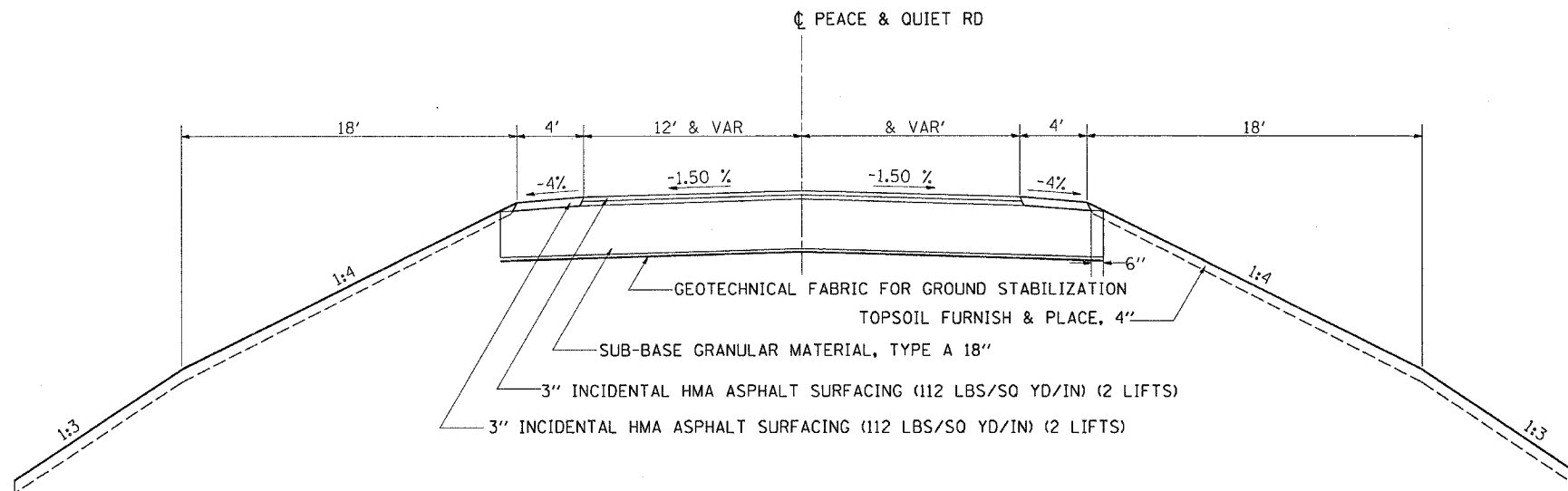
PROPOSED PEACE & QUIET RD

STA. 18+00.00 - STA. 18+65.00



PROPOSED PEACE & QUIET RD

STA. 18+65.00 - STA. 19+87.00



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REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

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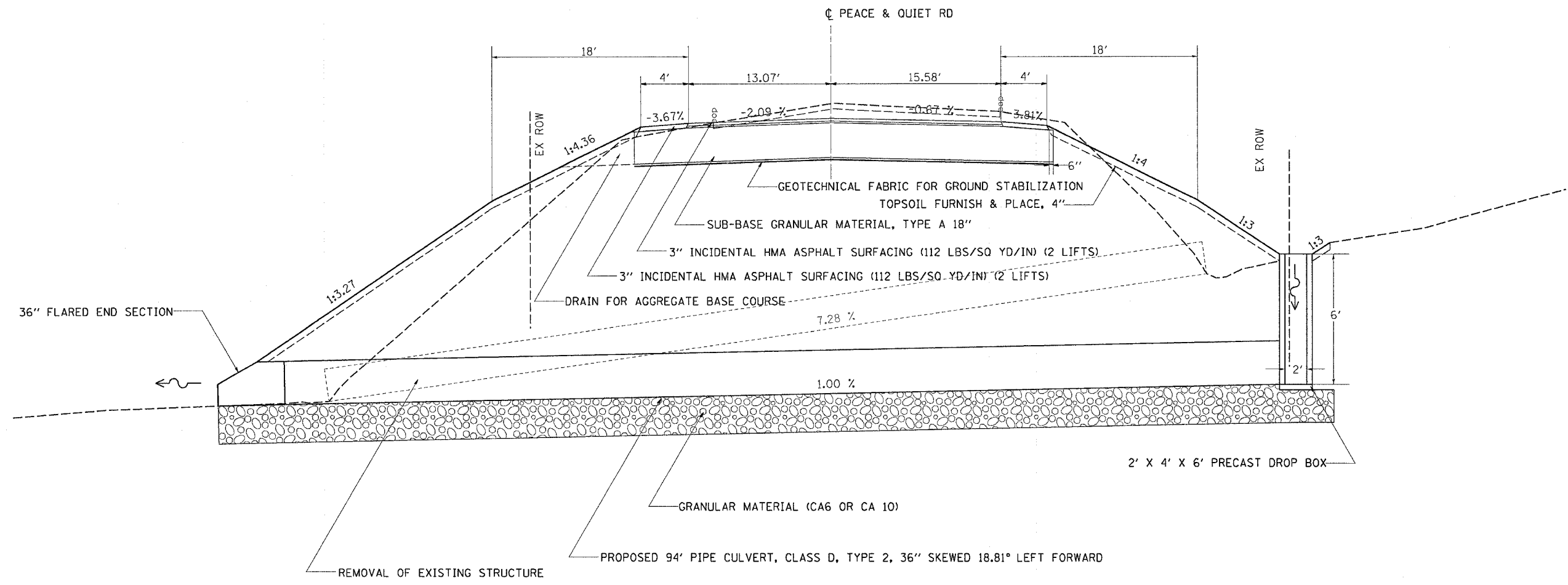
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F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
654	109 T	CARROLL	36	9
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

TYPICAL SECTIONS

PROPOSED PEACE & QUIET RD CULVERT

STA. 18+99.59



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REVISIONS		ILLINOIS DEPARTMENT OF TRANSPORTATION
NAME	DATE	
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DRAWN BY		CHECKED BY

SCHEDULE OF QUANTITIES

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
654	109 T	CARROLL	36	10
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

20100110	TREE REMOVAL (6 TO 15 UNITS DIAMETER)			
UNIT	LOCATION	OFFSET (ft)	REMARKS	
	<u>IL 73</u>			
6	LT. Sta. 326+26	105		
9	LT. Sta. 326+36	101		
13	LT. Sta. 326+37	66		
12	LT. Sta. 326+44	51		
8	LT. Sta. 326+80	55		
14	LT. Sta. 326+87	62		
14	LT. Sta. 326+99	70		
11	LT. Sta. 327+10	67		
11	LT. Sta. 327+13	72		
9	LT. Sta. 327+22	49		
12	LT. Sta. 327+31	71		
9	LT. Sta. 327+32	63		
9	LT. Sta. 327+38	62		
9	LT. Sta. 327+42	45		
9	LT. Sta. 327+57	57		
10	LT. Sta. 328+12	45		
14	LT. Sta. 328+34	49		
12	LT. Sta. 328+71	47		
191	TOTAL			

20101600	POTASSIUM FERTILIZER NUTRENT			REMARKS
POUND	LOCATION			
	<u>IL 73</u>			
55	LT. Sta. 324+00.0	- 330+50.0		
	<u>Peace & Quiet Road</u>			
55	L & R Sta. 18+00.0	- 19+87.0		
110	TOTAL			

20200100	EARTH EXCAVATION			REMARKS
CU. YD.	LOCATION			
	<u>IL 73</u>			
1003	L & R Sta. 324+00.0	- 330+50.0		
	<u>Peace & Quiet Road</u>			
751	L & R Sta. 18+00.0	- 19+87.0		
1755	TOTAL			

20100210	TREE REMOVAL (OVER 15 UNITS DIAMETER)			
UNIT	LOCATION	OFFSET (ft)	REMARKS	
	<u>IL 73</u>			
16	LT. Sta. 326+26	110		
18	LT. Sta. 326+28	109		
20	LT. Sta. 326+51	92		
22	LT. Sta. 327+35	66		
76	TOTAL			

20400800	FURNISHED EXCAVATION			REMARKS
CU. YD.	LOCATION			
	<u>IL 73</u>			
600	L & R Sta. 324+00.0	- 330+50.0		
	<u>Peace & Quiet Road</u>			
536	L & R Sta. 18+00.0	- 19+87.0		
1136	TOTAL			

20101400	NITROGEN FERTILIZER NUTRENT			
POUND	LOCATION	REMARKS		
	<u>IL 73</u>			
55	LT. Sta. 324+00.0	- 330+50.0		
	<u>Peace & Quiet Road</u>			
55	L & R Sta. 18+00.0	- 19+87.0		
110	TOTAL			

21001000	GEOTECHNICAL FABRIC FOR GROUND STABILIZATION			REMARKS
SQ. YD.	LOCATION			
	<u>Peace & Quiet Road</u>			
221	L & R Sta. 18+00.0	- 18+65.0		
144	L & R Sta. 18+65.0	- 19+29.0		
544	L & R Sta. 19+29.0	- 19+87.0		
909	TOTAL			

20101500	PHOSPHORUS FERTILIZER NUTRENT			
POUND	LOCATION	REMARKS		
	<u>IL 73</u>			
55	LT. Sta. 324+00.0	- 330+50.0		
	<u>Peace & Quiet Road</u>			
55	L & R Sta. 18+00.0	- 19+87.0		
110	TOTAL			

21101615	TOPSOIL FURNISH AND PLACE, 4"			REMARKS
SQ. YD.	LOCATION			
	<u>IL 73</u>			
1936	LT. & Rt. Sta. 324+00.0	- 330+50.0		
	<u>Peace & Quiet Road</u>			
1016	LT. & Rt. Sta. 18+00.0	- 19+87.0		
2952	TOTAL			

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SCHEDULE OF QUANTITIES

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
654	109 T	CARROLL	36	11
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

<p>25000210 SEEDING, CLASS 2A</p> <table border="0"> <tr> <td style="text-align: right;">ACRES</td> <td style="text-align: left;">LOCATION</td> <td style="text-align: left;">REMARKS</td> </tr> <tr> <td style="text-align: right;">0.25</td> <td style="text-align: left;"><u>IL 73</u> LT. & Rt. Sta. 324+00.0 - 330+50.0 <i>Peace & Quiet Road</i></td> <td></td> </tr> <tr> <td style="text-align: right;"><u>0.2</u></td> <td style="text-align: left;">L & R Sta. 18+00.0 - 19+87.0</td> <td></td> </tr> <tr> <td style="text-align: right;">0.4 TOTAL</td> <td></td> <td></td> </tr> </table>	ACRES	LOCATION	REMARKS	0.25	<u>IL 73</u> LT. & Rt. Sta. 324+00.0 - 330+50.0 <i>Peace & Quiet Road</i>		<u>0.2</u>	L & R Sta. 18+00.0 - 19+87.0		0.4 TOTAL			<p>28000250 TEMPORARY EROSION CONTROL SEEDING</p> <table border="0"> <tr> <td style="text-align: right;">POUND</td> <td style="text-align: left;">LOCATION (2 APPLICATIONS)</td> <td style="text-align: left;">REMARKS</td> </tr> <tr> <td style="text-align: right;">80</td> <td style="text-align: left;"><u>IL 73</u> LT. Sta. 324+00.0 - 330+50.0 <i>Peace & Quiet Road</i></td> <td style="text-align: left;">100 POUNDS / ACRE</td> </tr> <tr> <td style="text-align: right;"><u>80</u></td> <td style="text-align: left;">L & R Sta. 18+00.0 - 19+87.0</td> <td></td> </tr> <tr> <td style="text-align: right;">160 TOTAL</td> <td></td> <td></td> </tr> </table>	POUND	LOCATION (2 APPLICATIONS)	REMARKS	80	<u>IL 73</u> LT. Sta. 324+00.0 - 330+50.0 <i>Peace & Quiet Road</i>	100 POUNDS / ACRE	<u>80</u>	L & R Sta. 18+00.0 - 19+87.0		160 TOTAL					
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<p>25000310 SEEDING, CLASS 4</p> <table border="0"> <tr> <td style="text-align: right;">ACRES</td> <td style="text-align: left;">LOCATION</td> <td style="text-align: left;">REMARKS</td> </tr> <tr> <td style="text-align: right;">0.18</td> <td style="text-align: left;"><u>IL 73</u> LT. & Rt. Sta. 324+00.0 - 330+50.0 <i>Peace & Quiet Road</i></td> <td></td> </tr> <tr> <td style="text-align: right;"><u>0.03</u></td> <td style="text-align: left;">L & R Sta. 18+00.0 - 19+87.0</td> <td></td> </tr> <tr> <td style="text-align: right;">0.21 TOTAL</td> <td></td> <td></td> </tr> </table>	ACRES	LOCATION	REMARKS	0.18	<u>IL 73</u> LT. & Rt. Sta. 324+00.0 - 330+50.0 <i>Peace & Quiet Road</i>		<u>0.03</u>	L & R Sta. 18+00.0 - 19+87.0		0.21 TOTAL			<p>28000300 TEMPORARY DITCH CHECKS</p> <table border="0"> <tr> <td style="text-align: right;">EACH</td> <td style="text-align: left;">LOCATION</td> <td style="text-align: left;">REMARKS</td> </tr> <tr> <td style="text-align: right;">10</td> <td style="text-align: left;"><u>IL 73</u> LT. Sta. 324+00.0 - 330+50.0 <i>Peace & Quiet Road</i></td> <td></td> </tr> <tr> <td style="text-align: right;"><u>18</u></td> <td style="text-align: left;">L & R Sta. 18+00.0 - 19+87.0</td> <td></td> </tr> <tr> <td style="text-align: right;">28 TOTAL</td> <td></td> <td></td> </tr> </table>	EACH	LOCATION	REMARKS	10	<u>IL 73</u> LT. Sta. 324+00.0 - 330+50.0 <i>Peace & Quiet Road</i>		<u>18</u>	L & R Sta. 18+00.0 - 19+87.0		28 TOTAL					
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<p>25100630 EROSION CONTROL BLANKET</p> <table border="0"> <tr> <td style="text-align: right;">SQ. YD.</td> <td style="text-align: left;">LOCATION</td> <td style="text-align: left;">REMARKS</td> </tr> <tr> <td style="text-align: right;">139</td> <td style="text-align: left;"><u>IL 73</u> RT Sta. 325+78.0 - 326+84.0</td> <td style="text-align: left;">At Traffic Terminal locations slope depth 25'</td> </tr> <tr> <td style="text-align: right;"><u>19</u></td> <td style="text-align: left;">RT Sta. 328+34.0 - 329+39.0</td> <td style="text-align: left;">slope depth 3.5'</td> </tr> <tr> <td style="text-align: right;">158 TOTAL</td> <td></td> <td></td> </tr> </table>	SQ. YD.	LOCATION	REMARKS	139	<u>IL 73</u> RT Sta. 325+78.0 - 326+84.0	At Traffic Terminal locations slope depth 25'	<u>19</u>	RT Sta. 328+34.0 - 329+39.0	slope depth 3.5'	158 TOTAL			<p>31100935 SUB-BASE GRANULAR MATERIAL, TYPE A 18"</p> <table border="0"> <tr> <td style="text-align: right;">SQ. YD.</td> <td style="text-align: left;">LOCATION</td> <td style="text-align: left;">REMARKS</td> </tr> <tr> <td style="text-align: right;">221</td> <td style="text-align: left;"><u>Peace & Quiet Road</u> L & R Sta. 18+00.0 - 18+65.0</td> <td style="text-align: left;">65.0</td> </tr> <tr> <td style="text-align: right;">144</td> <td style="text-align: left;">L & R Sta. 18+65.0 - 19+29.0</td> <td style="text-align: left;">64.0</td> </tr> <tr> <td style="text-align: right;"><u>544</u></td> <td style="text-align: left;">L & R Sta. 19+29.0 - 19+87.0</td> <td style="text-align: left;">58.0</td> </tr> <tr> <td style="text-align: right;">909 TOTAL</td> <td></td> <td></td> </tr> </table>	SQ. YD.	LOCATION	REMARKS	221	<u>Peace & Quiet Road</u> L & R Sta. 18+00.0 - 18+65.0	65.0	144	L & R Sta. 18+65.0 - 19+29.0	64.0	<u>544</u>	L & R Sta. 19+29.0 - 19+87.0	58.0	909 TOTAL		
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SCHEDULE OF QUANTITIES

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
654	109 T	CARROLL	36	12
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

40600990 TEMPORARY RAMP

SQ.YD	LOCATION	REMARKS
27	<u>Peace & Quiet Road</u> Sta. 18+00.0	
27	Sta. 19+87.0	
54	TOTAL	

54002020 EXPANSION BOLTS 3/4 INCH

EACH	LOCATION	REMARKS
6	<u>IL 73</u> LT. Sta. 326+94	Used at the concrete collar location

40800050 INCIDENTAL HOT-MIX ASPHALT SURFACING

TON	LOCATION	REMARKS
186	<u>Peace & Quiet Rd</u> L & R Sta. 18+00.0 - 19+87.0	ARE IS 947 SQ.YDS
• SHOULDERS ARE INCLUDED		

54010203 CONCRETE BOX CULVERT 2'x3'

FOOT	LOCATION	REMARKS
27	<u>IL 73</u> LT. Sta. 327+20	

48101200 AGGREGATE SHOULDERS TYPE B

TON	LOCATION	REMARKS
9	<u>IL 73</u> LT. Sta. 324+20 - 324+54.0	
187	LT. Sta. 326+45.0 - 333+50.0	
17	<u>Peace & Quiet Road</u> L & R Sta. 18+00.0 - 18+65.0	
214	TOTAL	

54213471 END SECTION 36"

EACH	LOCATION	REMARKS
1	<u>Peace & Quiet Road</u> LT. Sta. 19+17	

50100200 REMOVAL OF EXISTING STRUCTURES

L. SUM	LOCATION	REMARKS
1	<u>Peace & Quiet Road</u> LT. Sta. 18+99	Used at the concrete collar location

54201081 PIPE CULVERTS, CLASS D, TYPE 2, 36"

FOOT	LOCATION	REMARKS
94	<u>Peace & Quiet Road</u> Sta. 18+99	

50800105 REINFORCEMENT BARS

POUND	LOCATION	REMARKS
61	<u>IL 73</u> LT. Sta. 326+94	Used at the concrete collar location

54248510 CONCRETE COLLAR

CU.YD	LOCATION	OFFSET (ft)	REMARKS
1	<u>IL 73</u> LT. Sta. 326+94	31.52	2' X 3' Box Culvert Extension

51500100 NAME PLATES

EACH	LOCATION	REMARKS
1	<u>IL 73</u> LT. Sta. 327+20	AT THE BOX CULVERT EXTENSION

63100167 TRAFFIC BARRIER TERMINAL, TYPE 1, SPECIAL (TANGENT)

EACH	LOCATION	REMARKS
1	<u>IL 73</u> RT Sta. 326+34 - 326+84	
1	RT Sta. 328+34 - 328+84	50' Long
2	TOTAL	50' Long

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SCHEDULE OF QUANTITIES

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
654	109 T	CARROLL	36	13
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

<p>63200310 <u>GUARDRAIL REMOVAL</u></p> <table border="0"> <thead> <tr> <th>FOOT</th> <th>LOCATION</th> <th>REMARKS</th> </tr> </thead> <tbody> <tr> <td>38</td> <td>IL 73 RT Sta. 326+46 - 326+84</td> <td></td> </tr> <tr> <td>38</td> <td>RT Sta. 328+34 - 328+72</td> <td></td> </tr> <tr> <td>189</td> <td>LT. Sta. 326+04 - 327+93</td> <td></td> </tr> <tr> <td>265</td> <td>TOTAL</td> <td></td> </tr> </tbody> </table>	FOOT	LOCATION	REMARKS	38	IL 73 RT Sta. 326+46 - 326+84		38	RT Sta. 328+34 - 328+72		189	LT. Sta. 326+04 - 327+93		265	TOTAL		<p>78001180 <u>PAINT PAVEMENT MARKING - LINE 24"</u></p> <table border="0"> <thead> <tr> <th>FOOT</th> <th>LOCATION (2 APPLICATIONS)</th> <th>REMARKS</th> </tr> </thead> <tbody> <tr> <td>70</td> <td>Peace & Outlet Rd Sta. 19+67</td> <td>Stop Bar</td> </tr> </tbody> </table>	FOOT	LOCATION (2 APPLICATIONS)	REMARKS	70	Peace & Outlet Rd Sta. 19+67	Stop Bar																															
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1	RT. Sta. 19+47	75																																																			
9	TOTAL																																																				
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1	IL 73 LT. Sta. 326+77	53.8'																																																			
<p>66700305 <u>PERMANENT SURVEY MARKERS, TYPE II</u></p> <table border="0"> <thead> <tr> <th>EACH</th> <th>LOCATION</th> <th>REMARKS</th> </tr> </thead> <tbody> <tr> <td>2</td> <td>IL 73 ENTIRE JOB</td> <td>USE ONE AT EACH SIDE OF THE CULVERT ALONG IL 73.</td> </tr> </tbody> </table>	EACH	LOCATION	REMARKS	2	IL 73 ENTIRE JOB	USE ONE AT EACH SIDE OF THE CULVERT ALONG IL 73.	<p>X0323661 <u>DROP BOX NO. 2</u></p> <table border="0"> <thead> <tr> <th>EACH</th> <th>LOCATION</th> <th>OFFSET (ft)</th> <th>REMARKS</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Peace & Outlet Rd LT. Sta. 18+87</td> <td>39.50</td> <td></td> </tr> </tbody> </table>	EACH	LOCATION	OFFSET (ft)	REMARKS	1	Peace & Outlet Rd LT. Sta. 18+87	39.50																																							
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PLOT DATE = Sat Apr 14 09:27:53 2007
 FILE NAME = s:\projects\64c60\101306\101306.dgn
 PLOT SCALE = 3/8" = 1' IN.
 USER NAME = gcfj

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
654	109 T	CARROLL	36	14
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 = 126,868.6264'
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 2,516,156.6765

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 P&Q_RD contains:
30 CUR 210 CUR 220 CUR 230 240

Beginning chain P&Q_RD description
=====

Point 30 N 2,009,588.3710 E 2,388,197.5380 Sta 9+15.2823

Course from 30 to PC 210 89° 33' 11.9930" Dist 303.7697'

Curve Data

Curve 210

P.I. Station 13+13.4038 N 2,009,591.4747 E 2,388,595.6474
Delta = 0° 42' 57.3251" (LT)
Degree = 0° 22' 45.8239"
Tangent = 94.3518'
Length = 188.7011'
Radius = 15,101.8595'
External = 0.2947'
Long Chord = 188.6999'
Mid. Ord. = 0.2947'
P.C. Station 12+19.0520 N 2,009,590.7391 E 2,388,501.2985
P.T. Station 14+07.7531 N 2,009,593.3890 E 2,388,689.9798
C.C. N 2,024,692.1397 E 2,388,383.5681

Course from PT 210 to PC 220 88° 50' 14.6679" Dist 129.8566'

Curve Data

Curve 220

P.I. Station 16+55.8339 N 2,009,598.4225 E 2,388,938.0095
Delta = 1° 49' 42.3714" (LT)
Degree = 0° 46' 24.0892"
Tangent = 118.2241'
Length = 236.4282'
Radius = 7,408.6997'
External = 0.9432'
Long Chord = 236.4181'
Mid. Ord. = 0.9431'
P.C. Station 15+37.6098 N 2,009,596.0238 E 2,388,819.8097
P.T. Station 17+74.0379 N 2,009,604.5914 E 2,389,056.0726
C.C. N 2,017,003.1983 E 2,388,669.4896

Curve Data

Curve 230

P.I. Station 18+11.8323 N 2,009,606.5635 E 2,389,093.8154
Delta = 1° 31' 44.1913" (RT)
Degree = 2° 01' 22.1931"
Tangent = 37.7944'
Length = 75.5843'
Radius = 2,832.4545'
External = 0.2521'
Long Chord = 75.5820'
Mid. Ord. = 0.2521'
P.C. Station 17+74.0379 N 2,009,604.5914 E 2,389,056.0726
P.T. Station 18+49.6222 N 2,009,607.5278 E 2,389,131.5975
C.C. N 2,006,775.9955 E 2,389,203.8689

Course from PT 230 to 240 88° 32' 16.4878" Dist 150.3778'

Point 240 N 2,009,611.3648 E 2,389,281.9264 Sta 20+00.0000

=====

Ending chain P&Q_RD description

APPARENT PROPERTY CORNERS

POINT	NORTH	EAST	ELEVATION	CHAIN	STATION	OFFSET	DESCRIPTION
702	2004229.8704	2386749.9496	835.3716	73	272+60.5395	2648.8853' LT	SECTION CORNER, PIN
703	2009566.2529	2383964.1909	866.1856	73	326+22.1276	5317.7428' LT	SECTION CORNER, PIN
700	2004327.8399	2394701.3440	928.1711	73	271+62.0288	5302.5024' RT	PROPERTY CORNER
701	2004277.7034	2389393.3760	882.0622	73	272+43.0483	5.0841' LT	PROPERTY CORNER
702	2004229.8704	2386749.9496	835.3716	73	272+60.5395	2648.8853' LT	PROPERTY CORNER
703	2009566.2529	2383964.1909	866.1856	73	326+22.1276	5317.7428' LT	PROPERTY CORNER
704	2009642.7694	2391909.5924	831.8167	73	325+65.1433	2627.8228' RT	PROPERTY CORNER
705	2009620.6941	2394678.9486	938.0739	73	324+96.5434	5396.4172' RT	R.O.W. CORNER
706	2014905.0862	2394514.9303	938.3865	73	377+82.9453	5321.2047' RT	PROPERTY CORNER
707	2014817.7280	2389154.7355	911.3484	73	377+85.6556	39.7012' LT	PROPERTY CORNER
708	2014834.6237	2383910.7497	857.4501	73	378+90.6527	5282.663' LT	PROPERTY CORNER
710	2012310.2563	2389206.3180	803.8525	73	352+77.6712	30.2538' LT	PROPERTY CORNER
711	2006948.2588	2389316.5089	926.1689	73	299+14.6877	15.9479' LT	PROPERTY CORNER, NAIL
712	2004354.5829	2397336.5684	929.6262	73	271+23.6567	7937.5831' RT	PROPERTY CORNER, PIN
713	2004370.4992	2399978.6808	942.8918	73	270+74.2911	10579.2822' RT	PROPERTY CORNER, PIN
715	2009718.8462	2399855.6229	958.7313	73	325+07.7088	10574.0099' RT	PROPERTY CORNER, PIN
716	2009684.3449	2397207.0467	967.7885	73	325+17.7108	7925.2279' RT	PROPERTY CORNER, PIN
717	2009650.2236	2394558.2640	935.3539	73	325+28.0963	5276.2458' RT	PROPERTY CORNER, PIN
718	2014818.8002	2389221.0618	911.0664	73	377+85.6133	26.6337' RT	PROPERTY CORNER, PIN
719	2014831.9900	2383861.6700	858.7300	73	378+88.8439	5331.78' LT	PROPERTY CORNER, PIPE
807	2017507.4180	2394458.2996	966.9569	73	403+85.8612	5308.3036' RT	QUARTER CORNER, NAIL
817	2004290.2493	2390713.9010	904.0033	73	272+22.9650	1315.3478' RT	1/16TH CORNER, REBAR
818	2004302.0303	2392047.1000	918.6053	73	272+01.8039	2648.4309' RT	QUARTER CORNER, REBAR

SURVEY WORK POINTS

POINT	NORTH	EAST	ELEVATION	CHAIN	STATION	OFFSET	DESCRIPTION
100	2008040.9340	2389357.3659	933.2681	73	310+06.3592	48.9657' RT	TRAVERSE STATION, PIN
101	2008181.7368	2389379.5319	920.3597	73	311+46.8238	73.5727' RT	TRAVERSE STATION, PIN
102	2008305.0765	2389285.7626	936.4107	73	312+71.7220	18.1111' LT	TRAVERSE STATION, PIN
103	2008534.2813	2389257.4899	940.1360	73	315+01.3694	42.529' LT	TRAVERSE STATION, PIN
104	2008813.0052	2389247.6380	925.1390	73	317+80.2195	47.6967' LT	TRAVERSE STATION, PIN
105	2009192.2625	2389240.8601	915.9378	73	321+59.5371	48.1018' LT	TRAVERSE STATION, PIN
106	2009603.2568	2389301.5542	887.9256	73	325+69.4537	19.4889' RT	TRAVERSE STATION, PIN
107	2009557.6511	2388878.6689	907.8660	73	325+30.9593	404.103' LT	TRAVERSE STATION, PIN
108	2010402.7056	2389248.2423	877.1792	73	333+69.6854	20.384' LT	TRAVERSE STATION, PIN
109	2009625.2968	2389196.5181	886.9300	73	325+93.2553	85.1621' LT	TRAVERSE STATION, NAIL
125	2009604.4363	2388540.6911	897.4100	73	325+83.4162	741.247' LT	TRAVERSE STATION, PIN
126	2009637.6262	2388607.9080	889.8100	73	326+15.4721	673.482' LT	TRAVERSE STATION, PIN

PLOT DATE = Fri Mar 16 11:03:59 2006
 PLOT SCALE = 1" = 500.000'
 USER NAME = gaff,ji

REVISIONS		ILLINOIS DEPARTMENT OF TRANSPORTATION
NAME	DATE	

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

HORIZONTAL & VERTICAL CONTROL

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
654	109 T	CARROLL	36	15
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

HORIZONTAL & VERTICAL CONTROL

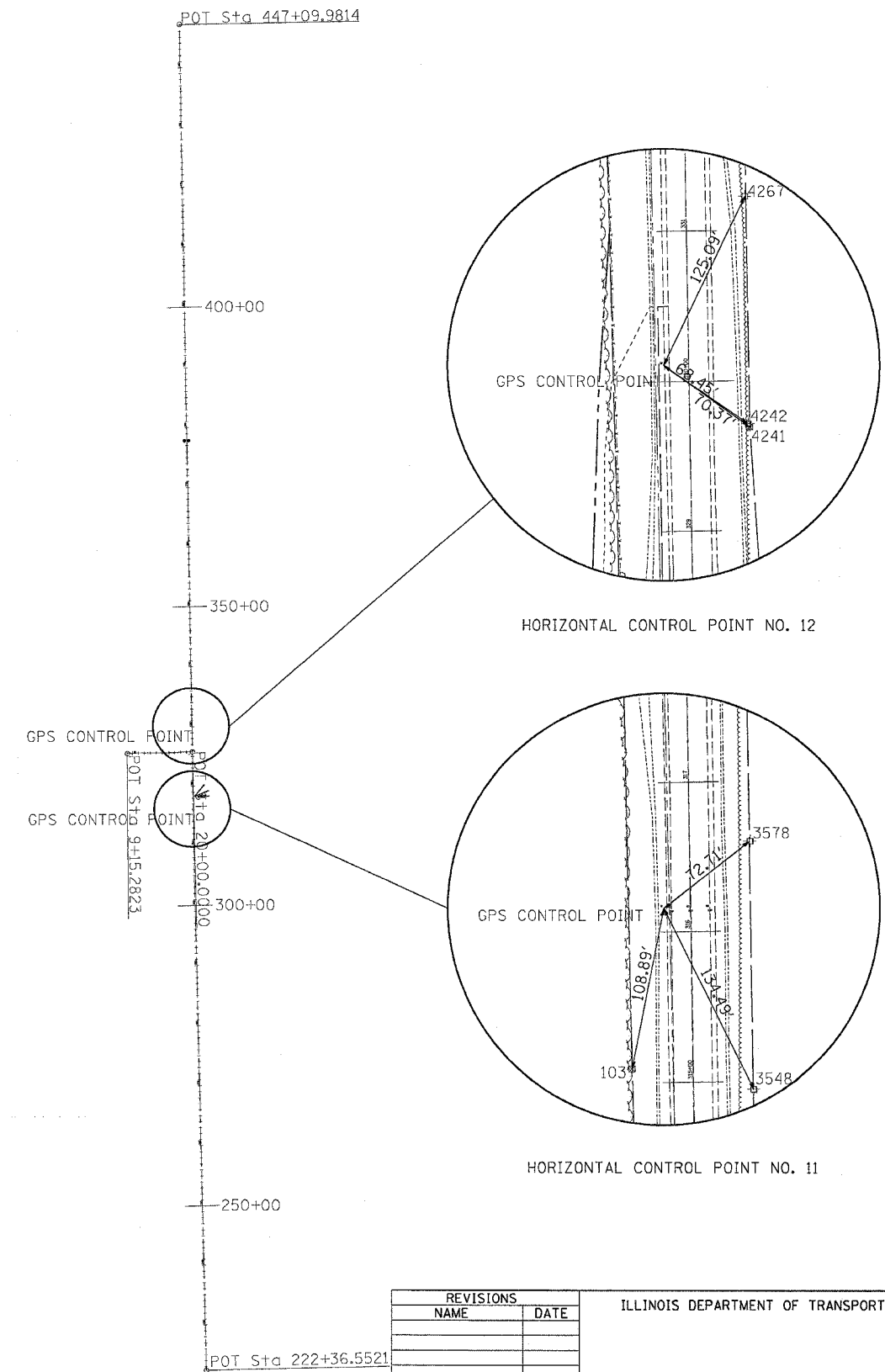
APPARENT PROPERTY CORNERS							
POINT	NORTH	EAST	ELEVATION	CHAIN	STATION	OFFSET	DESCRIPTION
700	2004327.8399	2394701.3440	928.1711	73	271+62.0288	5302.5024' RT	PROPERTY CORNER, PIN
701	2004277.7034	2389393.3760	882.0622	73	272+43.0483	5.0841' LT	PROPERTY CORNER, RAIL ROAD SPIKE
702	2004229.8704	2386749.9496	835.3716	73	272+60.5395	2648.8853' LT	PROPERTY CORNER, PIN
703	2009566.2529	2383964.1909	866.1856	73	326+22.1276	5317.7428' LT	PROPERTY CORNER, PIN
704	2009642.7694	2391909.5924	831.8167	73	325+65.1433	2627.8228' RT	PROPERTY CORNER, RAIL ROAD SPIKE
705	2009620.6941	2394678.9486	938.0739	73	324+96.5434	5396.4172' RT	R.O.W. CORNER, PIN
706	2014905.0862	2394514.9303	938.3865	73	377+82.9453	5321.2047' RT	PROPERTY CORNER, PIN
707	2014817.7280	2389154.7355	911.3484	73	377+85.6556	39.7012' LT	QUARTER CORNER, PIN
708	2014834.6237	2383910.7497	857.4501	73	378+90.6527	5282.663' LT	PROPERTY CORNER, NAIL
709	2015316.8154	2383988.8263	891.4545	73	383+71.4646	5196.4962' LT	TRAVERSE STATION, NAIL
710	2012310.2563	2389206.3180	803.8525	73	352+77.6712	30.2538' LT	PROPERTY CORNER, PIN
711	2006948.2588	2389316.5089	926.1689	73	299+14.6877	15.9479' LT	PROPERTY CORNER, NAIL
712	2004354.5829	2397336.5684	929.6262	73	271+23.6567	7937.5831' RT	QUARTER CORNER, PIN
713	2004370.4992	2399978.6808	942.8918	73	270+74.2911	10579.2822' RT	SECTION CORNER, PIN
714	2007045.9543	2399886.0257	975.7411	73	297+51.2187	10552.7563' RT	FENCE POST, PIN
715	2009718.8462	2399855.6229	958.7313	73	325+07.7088	10574.0099' RT	SECTION CORNER, PIN
716	2009684.3449	2397207.0467	967.7885	73	325+17.7108	7925.2279' RT	QUARTER CORNER, RAIL ROAD SPIKE
717	2009650.2236	2394558.2640	935.3539	73	325+28.0963	5276.2458' RT	SECTION CORNER, PIN
718	2014818.8002	2389221.0618	911.0664	73	377+85.6133	26.6337' RT	QUARTER CORNER, PIN
719	2014831.9900	2383861.6700	858.7300	73	378+88.8439	5331.78' LT	QUARTER CORNER, PIPE

HORIZONTAL CONTROL POINTS							
POINT	NORTH	EAST	ELEVATION	CHAIN	STATION	OFFSET	DESCRIPTION
12	2010044.2130	2389257.8750	879.3020	73	330+11.0815	16.7757' LT	TRAVERSE STATION, PIN
11	2008649.1045	2389280.3903	930.0062	73	316+15.7917	17.7027' LT	TRAVERSE STATION, PIN

CURVE POINT NUMBERS					
CHAIN	CURVE	PI	CC	PC	PT
73	200	200	201	202	203

CURVE POINT NUMBERS					
CHAIN	CURVE	PI	CC	PC	PT
P&Q_RD	210	210	211	212	213
P&Q_RD	220	220	221	222	223
P&Q_RD	230	230	231	232	233

BENCH MARKS							
POINT	NORTH	EAST	ELEVATION	CHAIN	STATION	OFFSET	DESCRIPTION
411	2008866.1320	2389317.4260	923.1550	73	318+32.1663	22.974' RT	HEADWALL, CHISELED SQUARE
412	2009570.9530	2389229.4210	889.4370	73	325+38.3664	53.1769' LT	R.O.W. MARKER, TOP



REVISIONS		ILLINOIS DEPARTMENT OF TRANSPORTATION
NAME	DATE	

SCALE: VERT. _____
HORIZ. _____
DATE _____

DRAWN BY _____
CHECKED BY _____

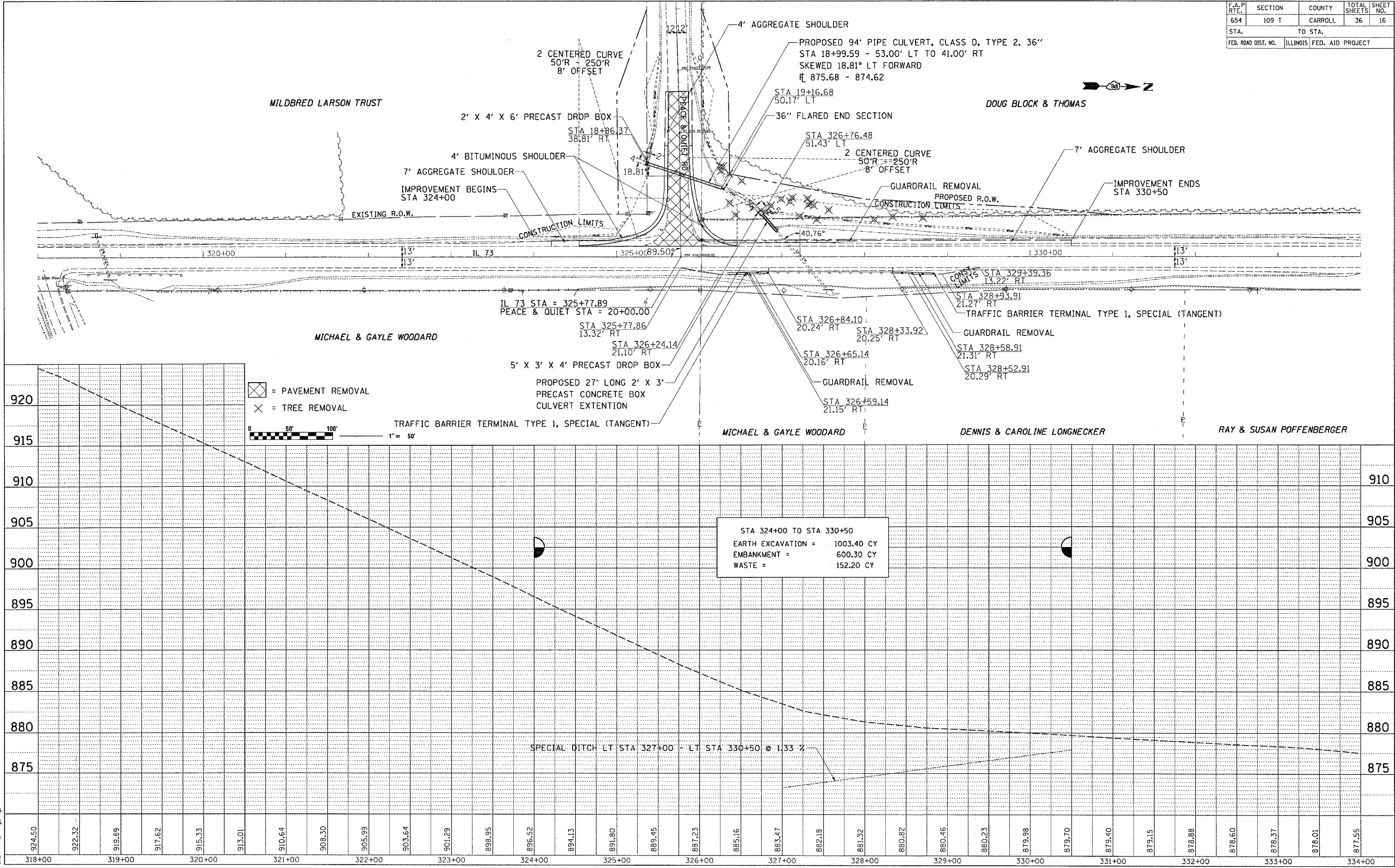
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F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
654	109 T	CARROLL	36	16
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

PLAN	SURVEYED	DATE
	PLOTTED	
	CHECKED	
	BY	
	NO.	
	FILE NAME	

PROFILE	SURVEYED	DATE
	PLOTTED	
	CHECKED	
	BY	
	NO.	
	FILE NAME	

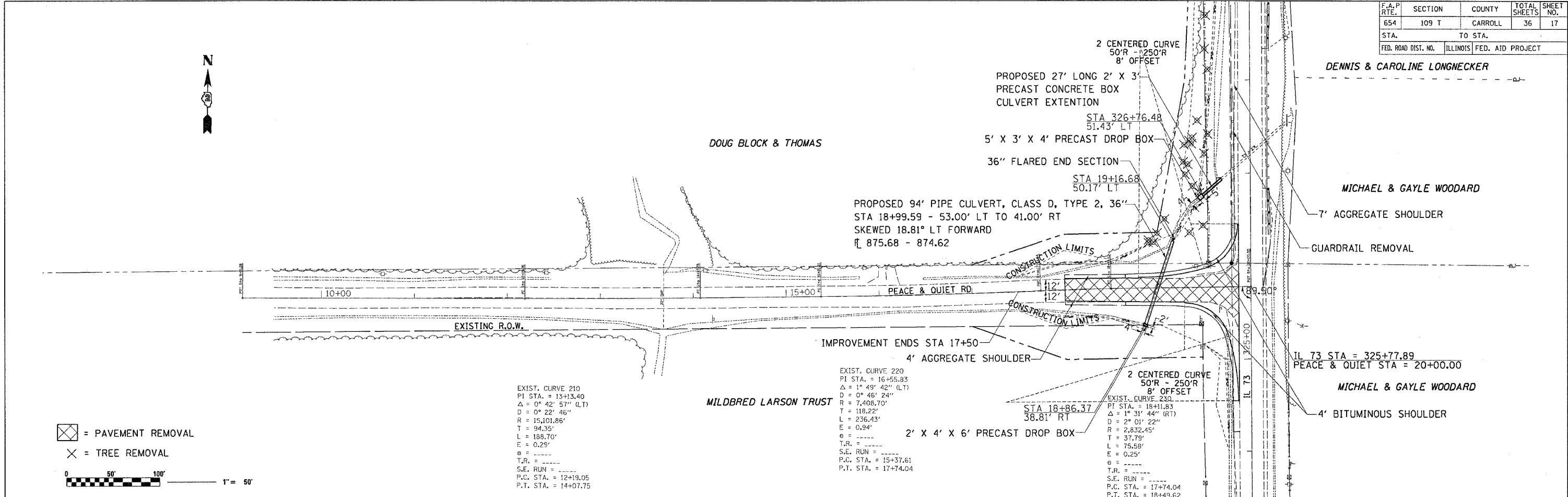
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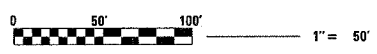
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
654	109 T	CARROLL	36	17
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		



PLAN	SURVEYED	DATE
	PLOTTED	BY
	CHECKED	
	REVISIONS	
	NO. OF REVISIONS	
	DATE	
	BY	
	NO.	
	NAME	



- ☒ = PAVEMENT REMOVAL
- ✕ = TREE REMOVAL



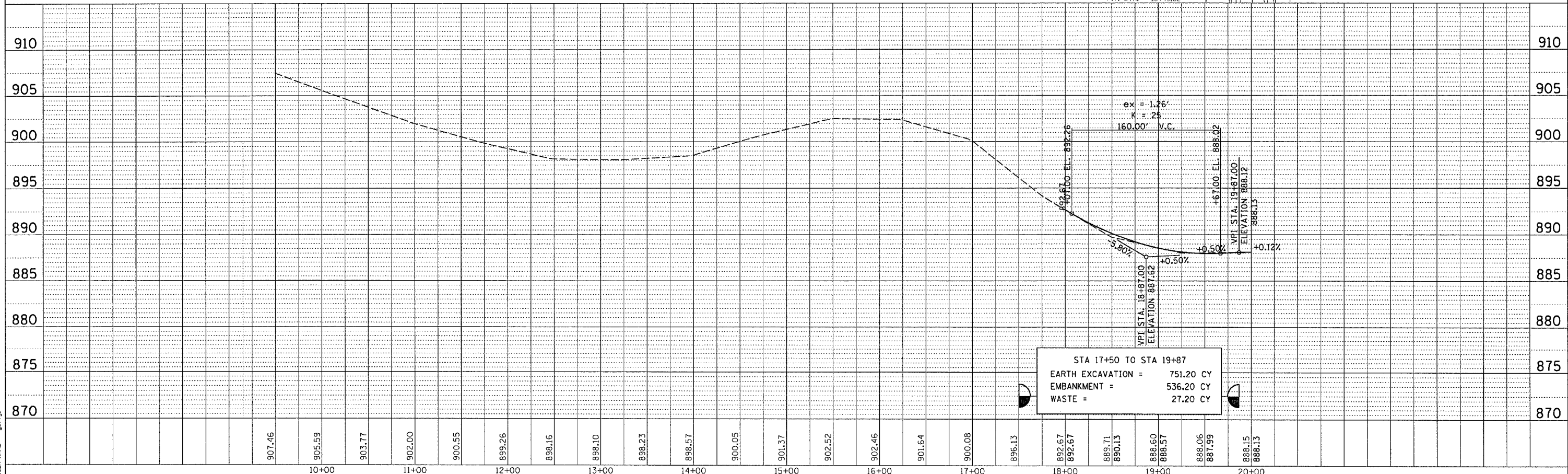
EXIST. CURVE 210
 PI STA. = 13+13.40
 $\Delta = 0^\circ 42' 57''$ (LT)
 $D = 0^\circ 22' 46''$
 $R = 15,101.86'$
 $T = 94.35'$
 $L = 188.70'$
 $E = 0.29'$
 $\theta =$
 $T.R. =$
 $S.E. RUN =$
 $P.C. STA. = 12+19.05$
 $P.T. STA. = 14+07.75$

EXIST. CURVE 220
 PI STA. = 16+55.83
 $\Delta = 1^\circ 49' 42''$ (LT)
 $D = 0^\circ 46' 24''$
 $R = 7,408.70'$
 $T = 118.22'$
 $L = 236.43'$
 $E = 0.94'$
 $\theta =$
 $T.R. =$
 $S.E. RUN =$
 $P.C. STA. = 15+37.61$
 $P.T. STA. = 17+74.04$

EXIST. CURVE 230
 PI STA. = 18+11.83
 $\Delta = 1^\circ 31' 44''$ (RT)
 $D = 2^\circ 01' 22''$
 $R = 2,832.45'$
 $T = 37.79'$
 $L = 75.58'$
 $E = 0.25'$
 $\theta =$
 $T.R. =$
 $S.E. RUN =$
 $P.C. STA. = 17+74.04$
 $P.T. STA. = 18+49.62$

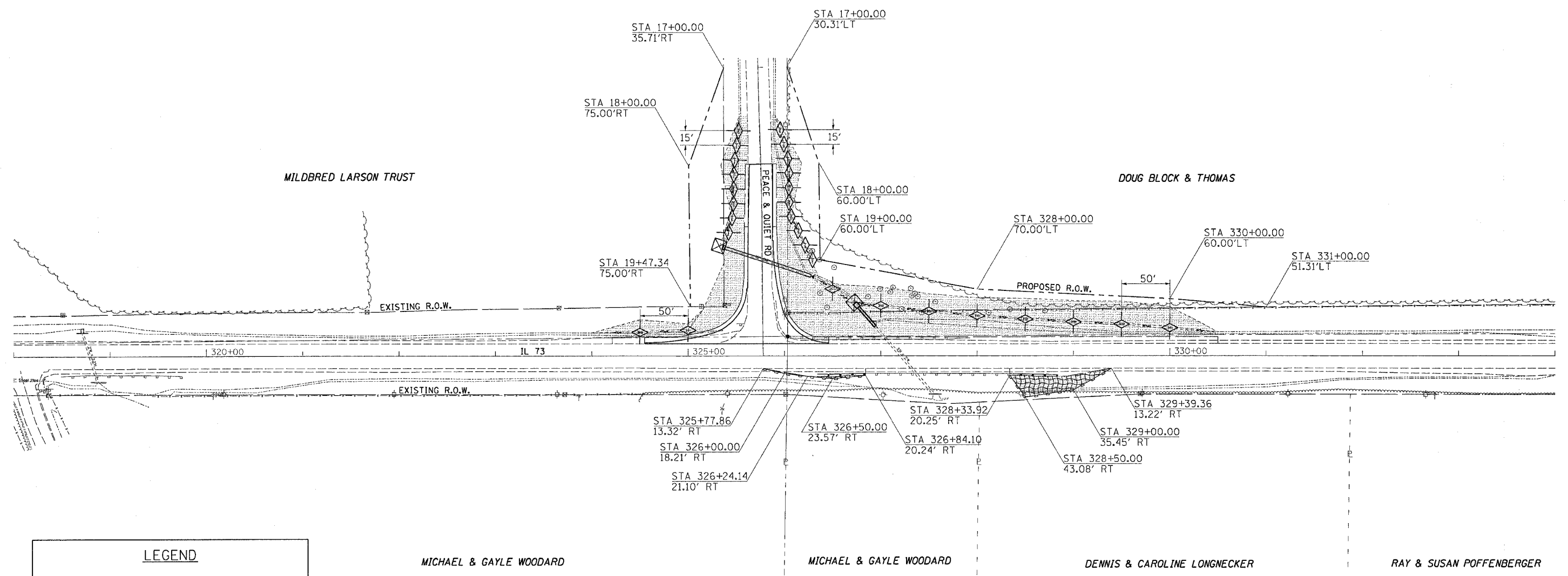
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	CHECKED	
	REVISIONS	
	NO. OF REVISIONS	
	DATE	
	BY	
	NO.	
	NAME	

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






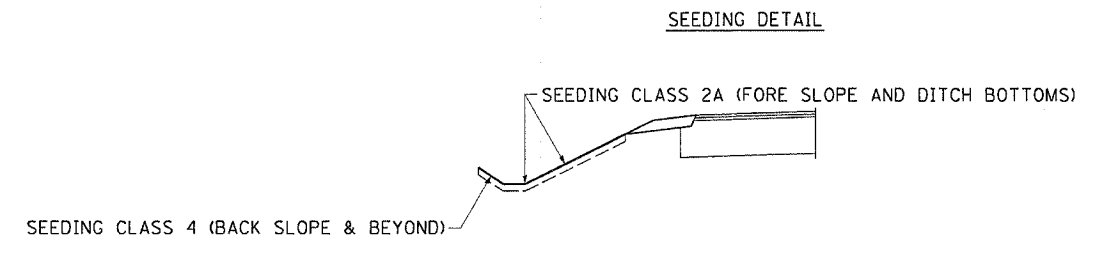
EROSION CONTROL, SEEDING, & R.O.W. DETAILS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
654	109 T	CARROLL	36	18
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

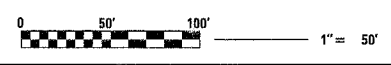


LEGEND

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



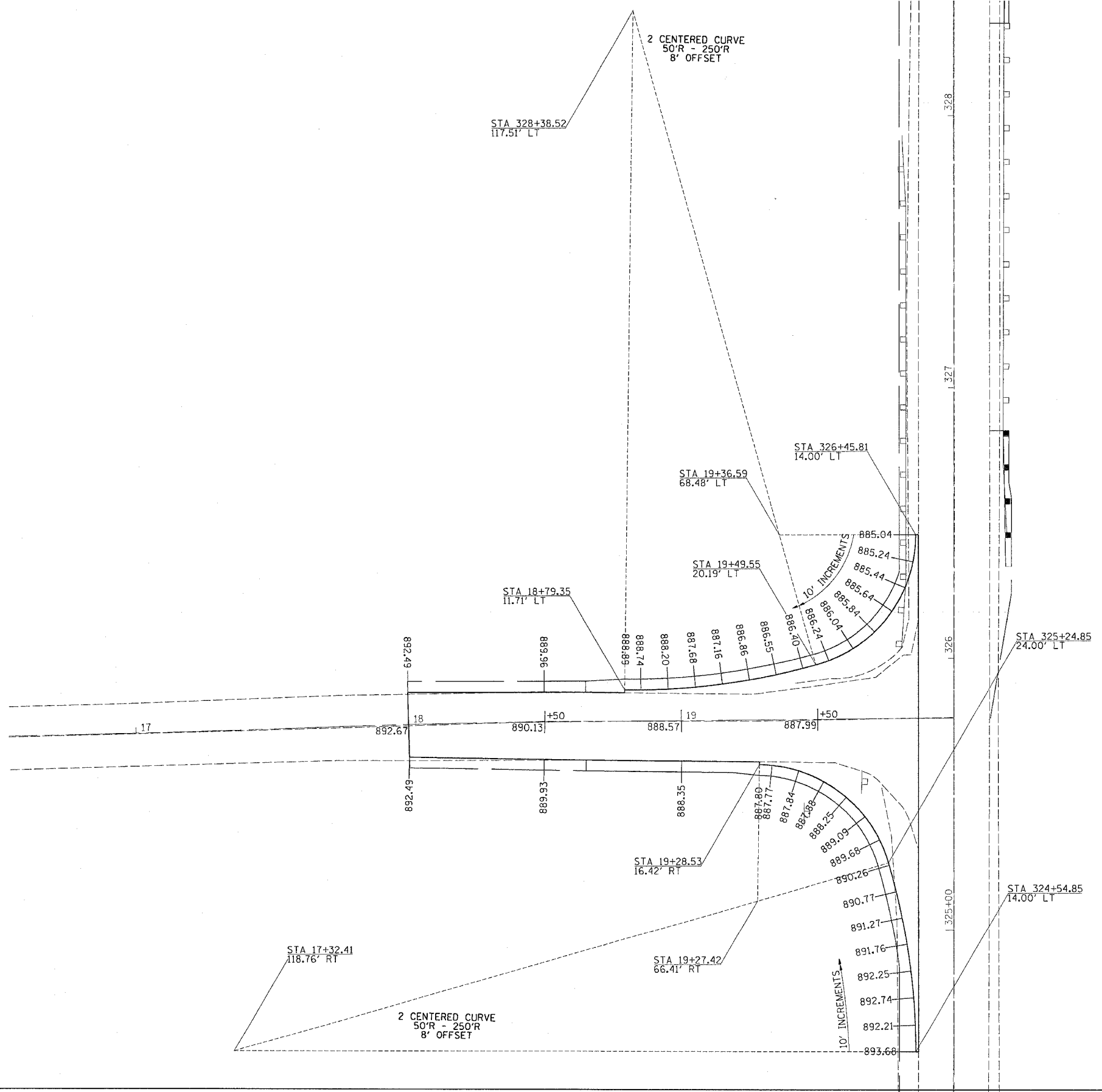
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 USER NAME = gmf/JJ



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

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
654	109 T	CARROLL	36	19
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

PAVEMENT ELEVATION DETAILS



REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

SCALE: VERT.
HORIZ.
DATE

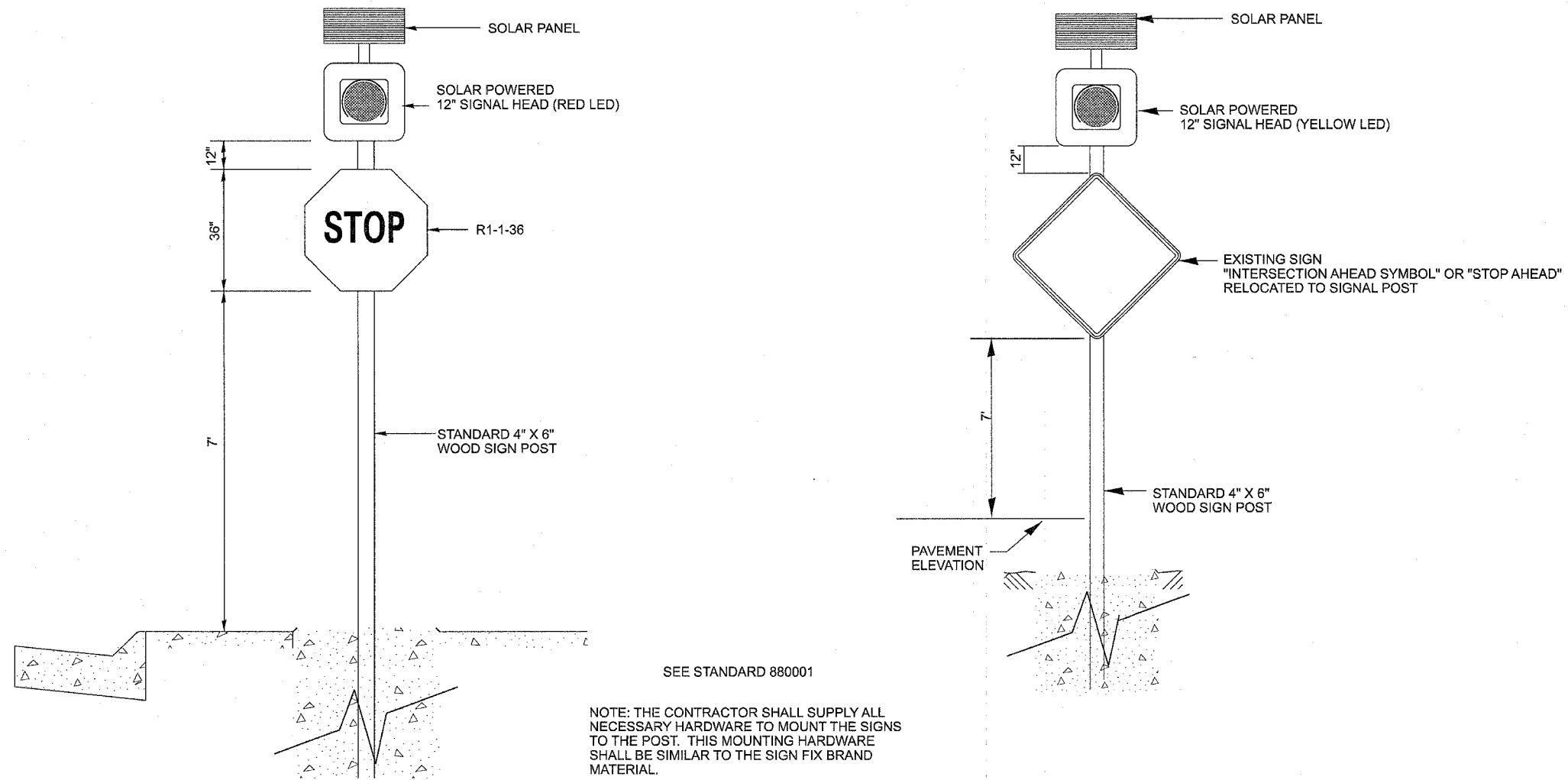
DRAWN BY
CHECKED BY

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USER NAME = gortji

PAVEMENT ELEVATION DETAILS

F.A. PJ RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
654	109 T	CARROLL	36	20
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

SOLAR POWER FLASHER DETAIL



PLOT DATE = Fri, Nov 18, 11:47:10, 2007
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 USER NAME = gaffj

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



Illinois Department of Transportation
Division of Highways
IDOT

SOIL BORING LOG

Date 5/20/06

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
654	109 T	CARROLL	36	21
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

ROUTE IL 73 DESCRIPTION P92-103-06 Box culvert on IL 73, 2.1 m. N. of IL 72 LOGGED BY J. Strating

SECTION _____ LOCATION Cherry Grove Twp. - 4SW, SEC. , TWP. 25N, RNG. 6E

COUNTY Carroll DRILLING METHOD Hollow Stem Auger HAMMER TYPE B-53 Diedrich Automatic

STRUCT. NO. <u>008-1035</u>	D	B	U	M	Surface Water Elev. <u>Dry</u> ft	D	B	U	M
Station _____	E	L	C	O	Stream Bed Elev. <u>80.0</u> ft	E	L	C	O
BORING NO. <u>B-1</u>	P	O	S	I	Groundwater Elev.:	P	O	S	I
Station <u>+30 N</u>	T	W	S	T	First Encounter _____ ft	T	W	S	T
Offset <u>11.00ft E CL</u>	H	S	Qu	T	Upon Completion _____ ft	H	S	Qu	T
Ground Surface Elev. <u>98.8</u> ft	(ft)	(6")	(tsf)	(%)	After _____ Hrs. _____ ft	(ft)	(6")	(tsf)	(%)

MEDIUM brown SILTY CLAY LOAM			0.5	22				3	
			P					4	1.4
						77.30		16	B
MEDIUM tan weathered LIMESTONE	96.30	5							
		3						1007"	
	94.80	9				75.30			
MEDIUM brown/gray SILTY CLAY LOAM		3	1.0	26					
		3	P						
	92.30								
MEDIUM tan/brown SILTY CLAY LOAM with LIMESTONE		2	0.8	22					
		4	P						
	89.30								
LOOSE tan/brown dirty SAND (weathered LIMESTONE)		6							
		3							
		3							
	86.80								
MEDIUM brown SILTY CLAY LOAM with LIMESTONE		4	0.5	20					
		5	P						
		4							
	84.30								
LOOSE tan/brown dirty SAND (weathered LIMESTONE)		4							
		3							
		2							
	81.80								
SOFT brown SILTY LOAM		1	0.3	26					
		1	P						
		3							
	79.80								

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)

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

SOIL BORING LOG

PLOT DATE = Fri Mar 16 11:20:52 2007
FILE NAME = c:\p\projects\212396\1002060.dgn
PLOT SCALE = 1/4" = 1'-0"
USER NAME = jgft,j



Illinois Department of Transportation
Division of Highways
IDOT

SOIL BORING LOG

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
654	109 T	CARROLL	36	22
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	

ROUTE IL 73 DESCRIPTION P92-103-06 Box culvert on IL 73, 2.1 m. N. of IL 72 LOGGED BY J. Strating
 SECTION _____ LOCATION Cherry Grove Twp. - 4SW, SEC. , TWP. 25N, RNG. 6E
 COUNTY Carroll DRILLING METHOD Hollow Stem Auger HAMMER TYPE B-53 Diedrich Automatic

STRUCT. NO. Station	BORING NO. Station Offset Ground Surface Elev.	D E P T H (ft)	B L O W S (6")	U C S Qu (tsf)	M O S T (%)	Surface Water Elev.		D E P T H (ft)	B L O W S (6")	U C S Qu (tsf)	M O S T (%)
						_____ ft	_____ ft				
							Dry				
							80.0				
	B-2 +29 S South 11.00ft W CL 100.7										
	MEDIUM brown SILTY CLAY LOAM			0.8 P	23			79.20	13 15 17		
	MEDIUM tan weathered LIMESTONE		6 10 10					76.70	100.2"		
	VERY DENSE tan weathered LIMESTONE										
	LOOSE tan/brown dirty SAND (weathered LIMESTONE)		2 3 3					-25			
	MEDIUM tan dirty SAND (weathered LIMESTONE)		3 4 6								
	VERY STIFF gray SILTY LOAM		3 4 7	3.5 P	17			-30			
	MEDIUM tan/gray dirty SAND (weathered LIMESTONE)		3 6 6								
	MEDIUM brown SILTY CLAY LOAM		3 3 4	1.0 P	21			-35			
	MEDIUM tan weathered LIMESTONE		6 8 10								
								-40			

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)

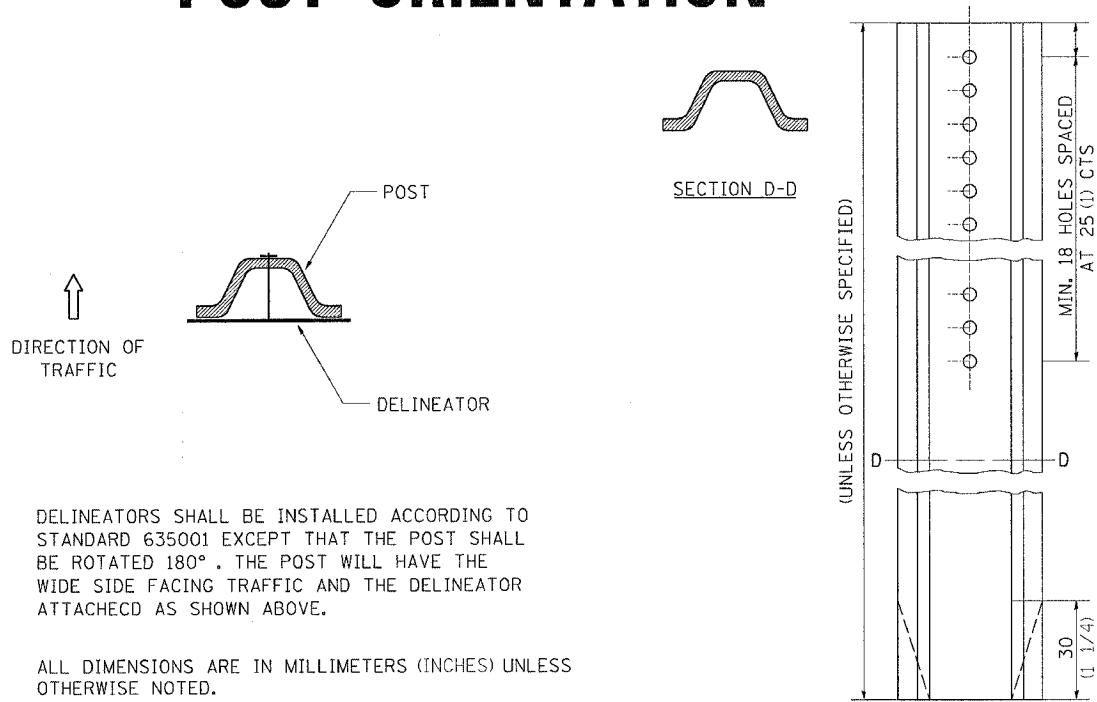
REVISIONS		ILLINOIS DEPARTMENT OF TRANSPORTATION
NAME	DATE	
		DRAWN BY CHECKED BY

SCALE: VERT.
HORIZ.
DATE

PLOT DATE = Fri, Mar 15 14:05:53 2007
 PLOT SCALE = 50:1
 USER NAME = jstrating

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
654	109 T	CARROLL	36	23
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

DELINEATOR AND POST ORIENTATION



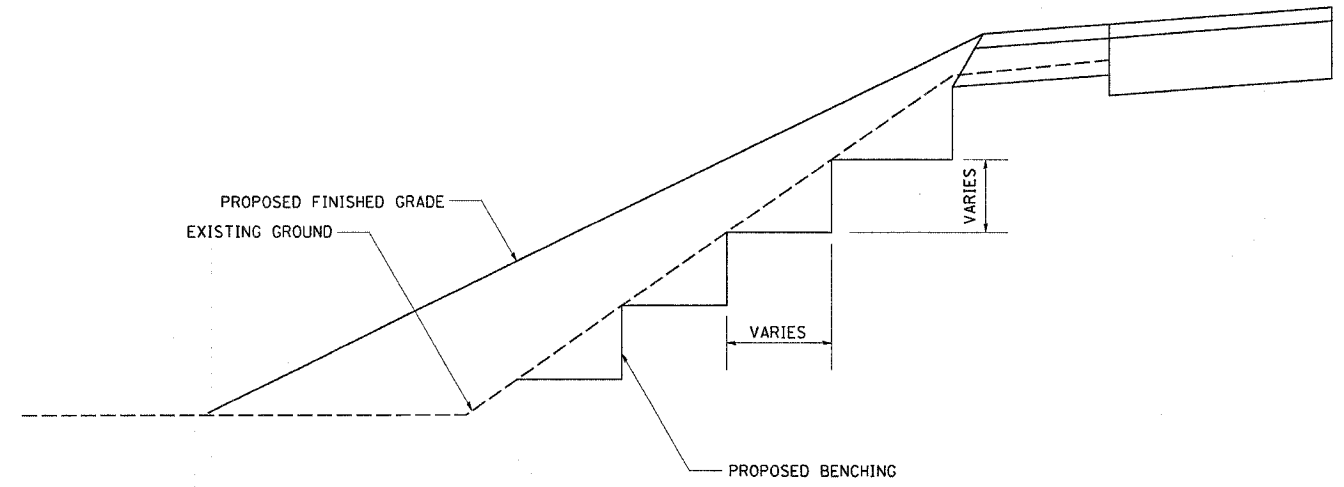
DELINEATORS SHALL BE INSTALLED ACCORDING TO STANDARD 635001 EXCEPT THAT THE POST SHALL BE ROTATED 180°. THE POST WILL HAVE THE WIDE SIDE FACING TRAFFIC AND THE DELINEATOR ATTACHED AS SHOWN ABOVE.

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

DELINEATOR AND POST ORIENTATION 37.4

REVISED 1-31-00

TYPICAL BENCHING ON EXISTING EMBANKMENT



TYPICAL BENCHING ON EXISTING EMBANKMENT 50.4

REVISED 2-22-06

TREE REPLACEMENT SCHEDULE

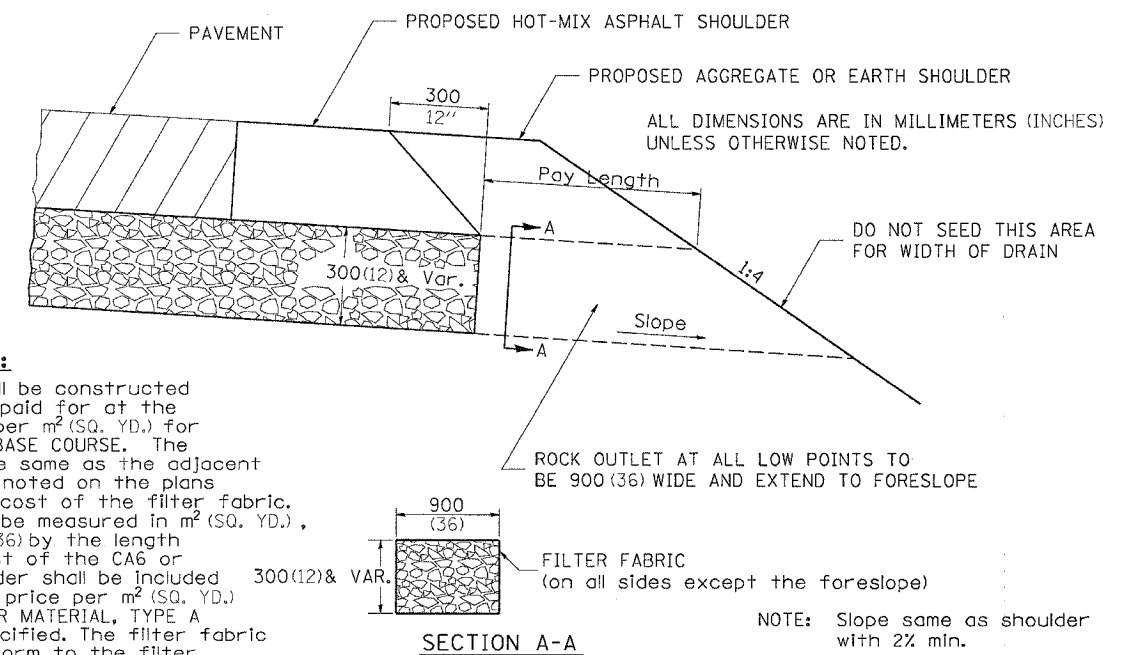
CODE NUMBER	SCIENTIFIC NAME	COMMON NAME	SIZE	UNIT	QUANTITY
A2007814	TILIA AMERICANA	AMERICAN LINDEN / BASSWOOD	1 3/4" DIA.	EACH	10
B2000562	AMELANCHIER CANADENSIS	SHADBLOW SERVICEBERRY	4' HEIGHT	EACH	12

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

TREE REPLACEMENT SCHEDULE 90.4

REVISED 8-10-05

DRAIN FOR AGGREGATE BASE COURSE



NOTES:
 The rock outlets shall be constructed using CA7 and will be paid for at the contract unit price per m² (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 m² (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 m² (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.

NOTE: Slope same as shoulder with 2% min.

SECTION A-A

DRAIN FOR AGGREGATE BASE COURSE 96.4

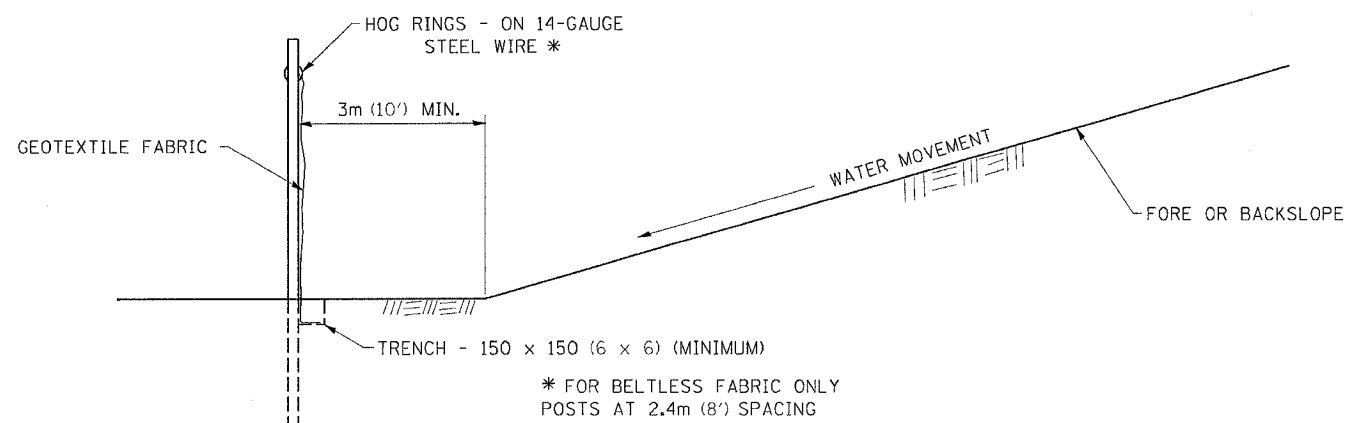
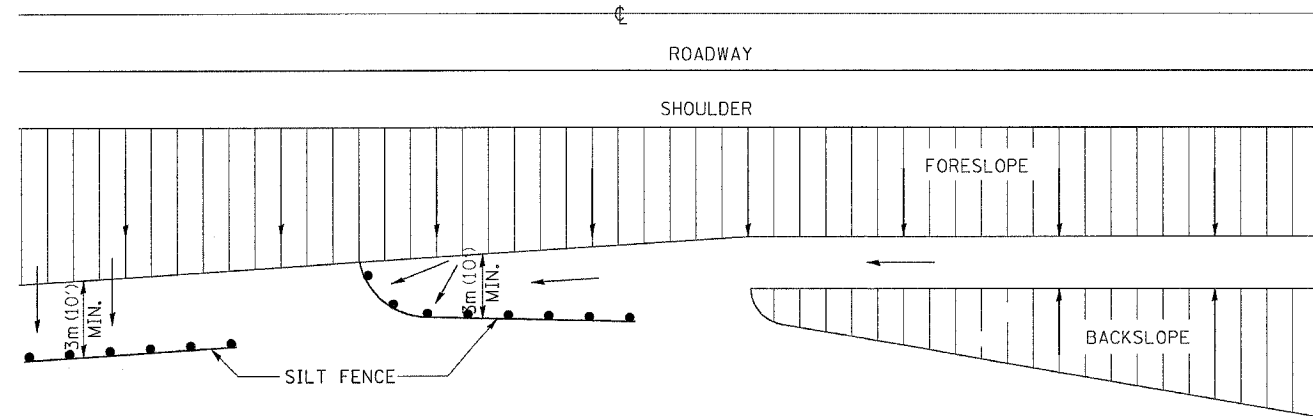
X0325519

REVISED 10-10-06

PLOT DATE = Fri Mar 16 14:05:59 2007
 PLOT SCALE = 300(12) & VAR.
 PLOT SCALE = 300(12) & VAR.
 REFERENCE = REF

CONTRACT NO. 64C60				
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
654	109 T	CARROLL	36	24
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	

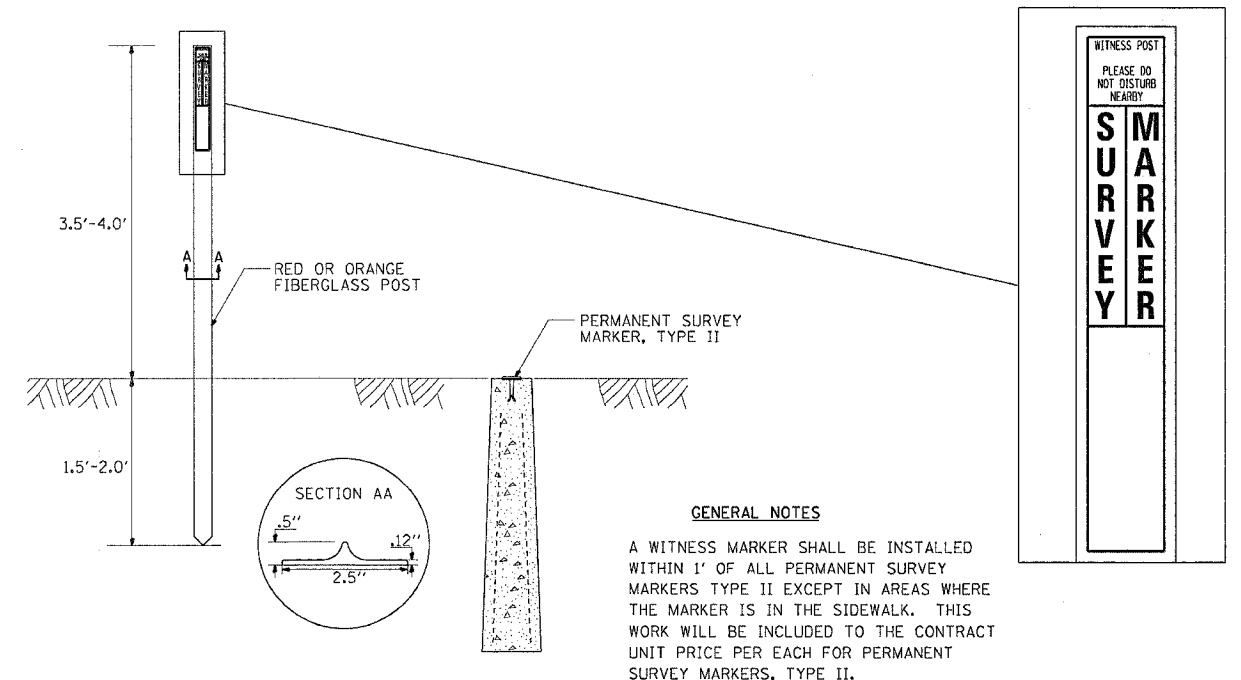
EROSION CONTROL DETAILS FOR SILT FENCE



DETAILS OF SILT FENCE

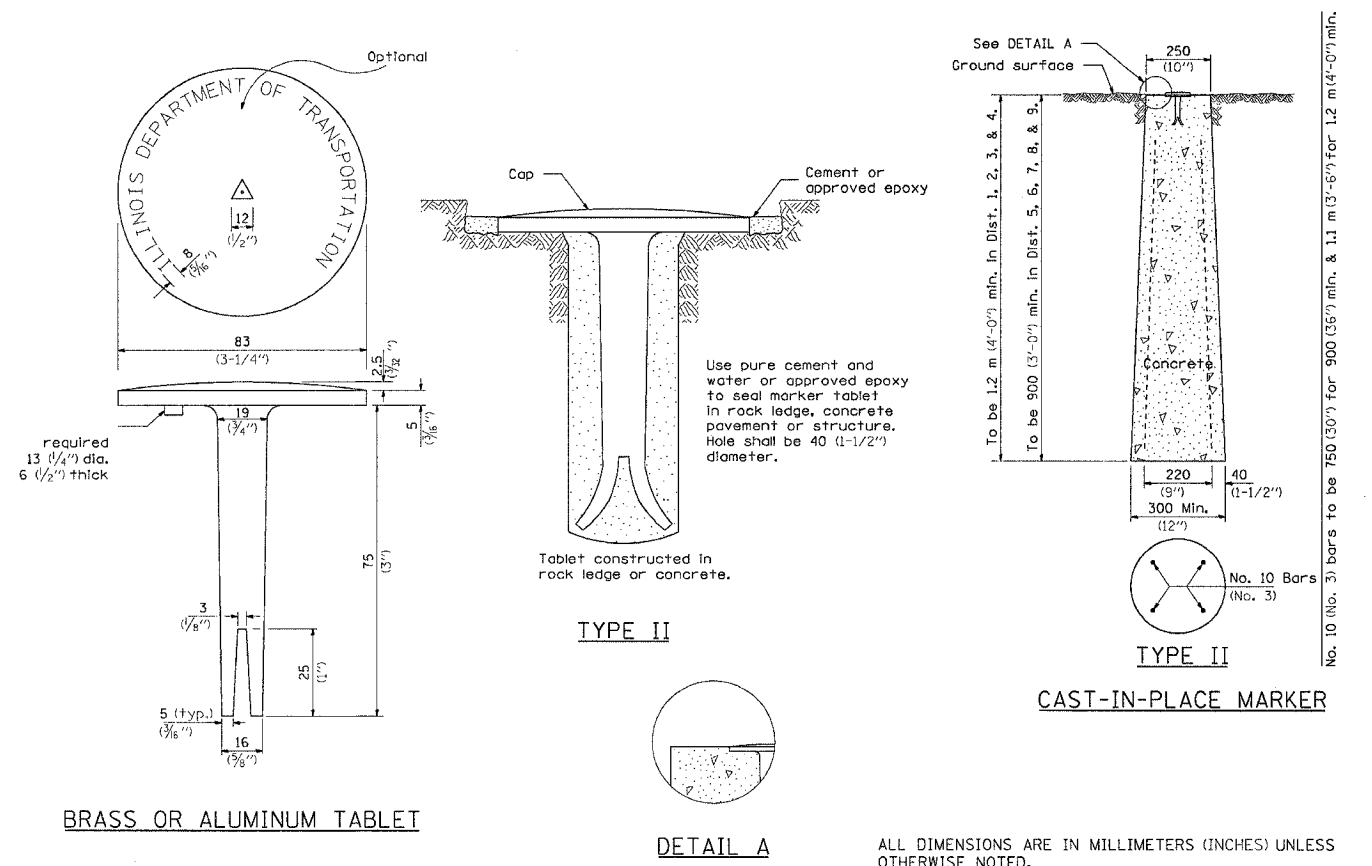
ALL DIMENSIONS ARE IN MILLIMETERS (INCHES) UNLESS OTHERWISE NOTED.

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

DETAIL A

CAST-IN-PLACE MARKER

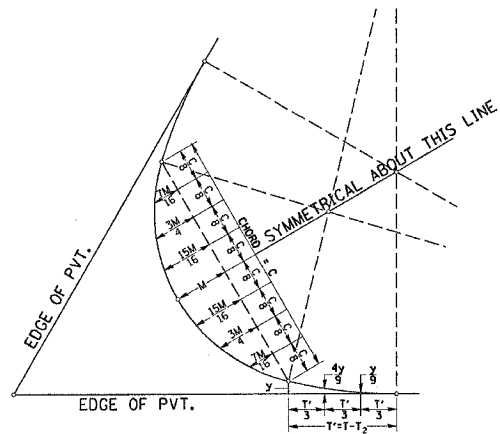
ALL DIMENSIONS ARE IN MILLIMETERS (INCHES) UNLESS OTHERWISE NOTED.

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 REFERENCE = SHEET

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		

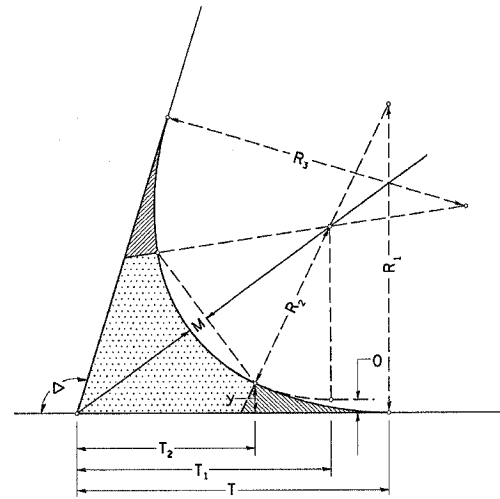
THREE CENTER CURVE DATA

SYMMETRICAL CURVES



FIELD LAYOUT METHOD

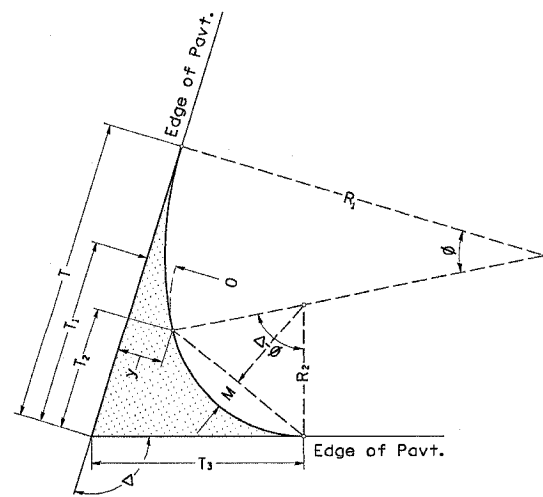
CURVE #							
R ₁							
R ₂							
R ₃							
O							
Δ							
T							
T ₁							
T ₂							
T'							
y							
$\frac{4y}{9}$							
$\frac{y}{9}$							
M							
$\frac{15M}{16}$							
$\frac{3M}{4}$							
$\frac{7M}{16}$							
C							



FOR SYMMETRICAL CURVES

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

TWO CENTER CURVE DATA

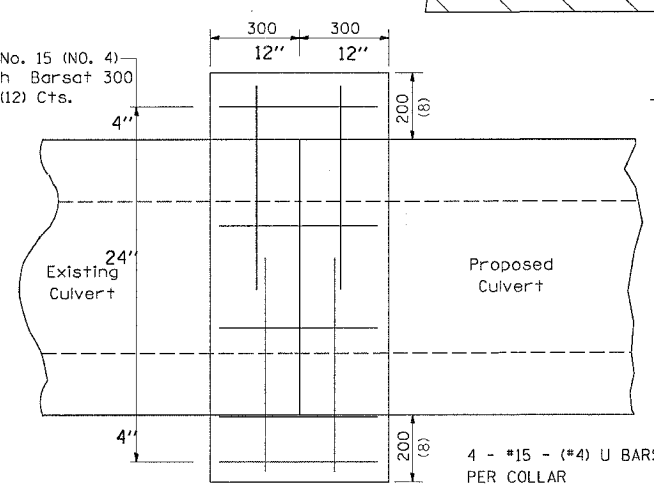
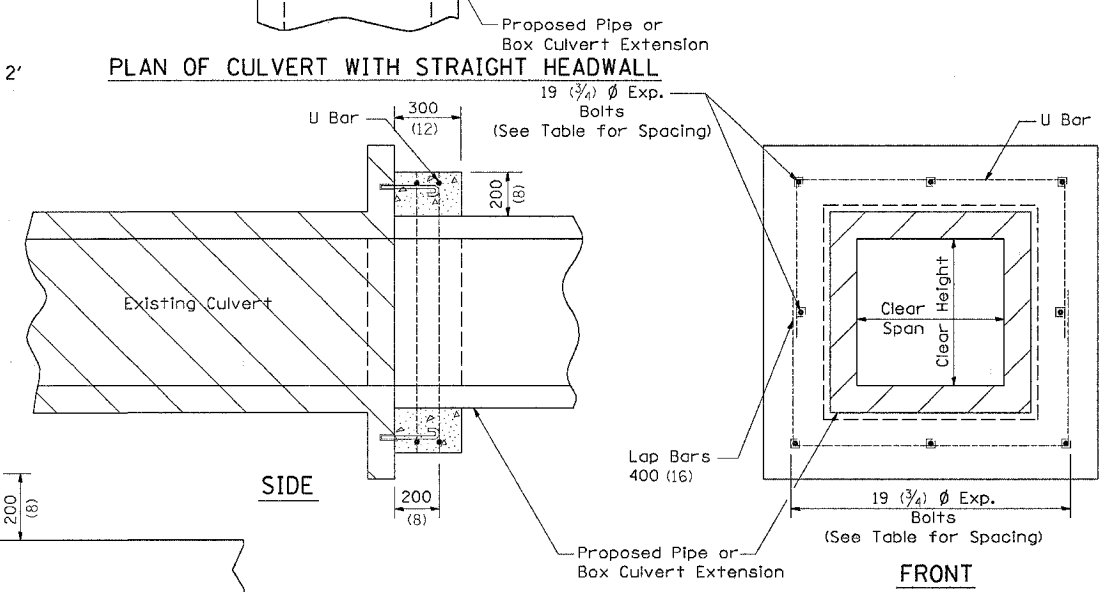
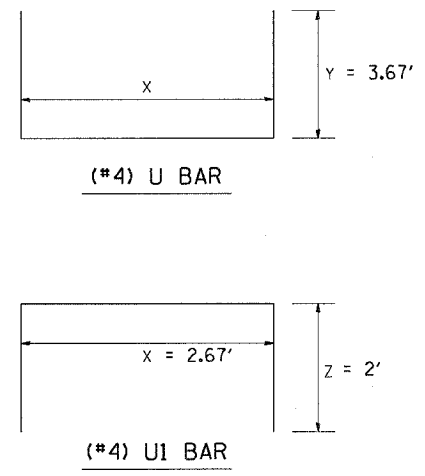
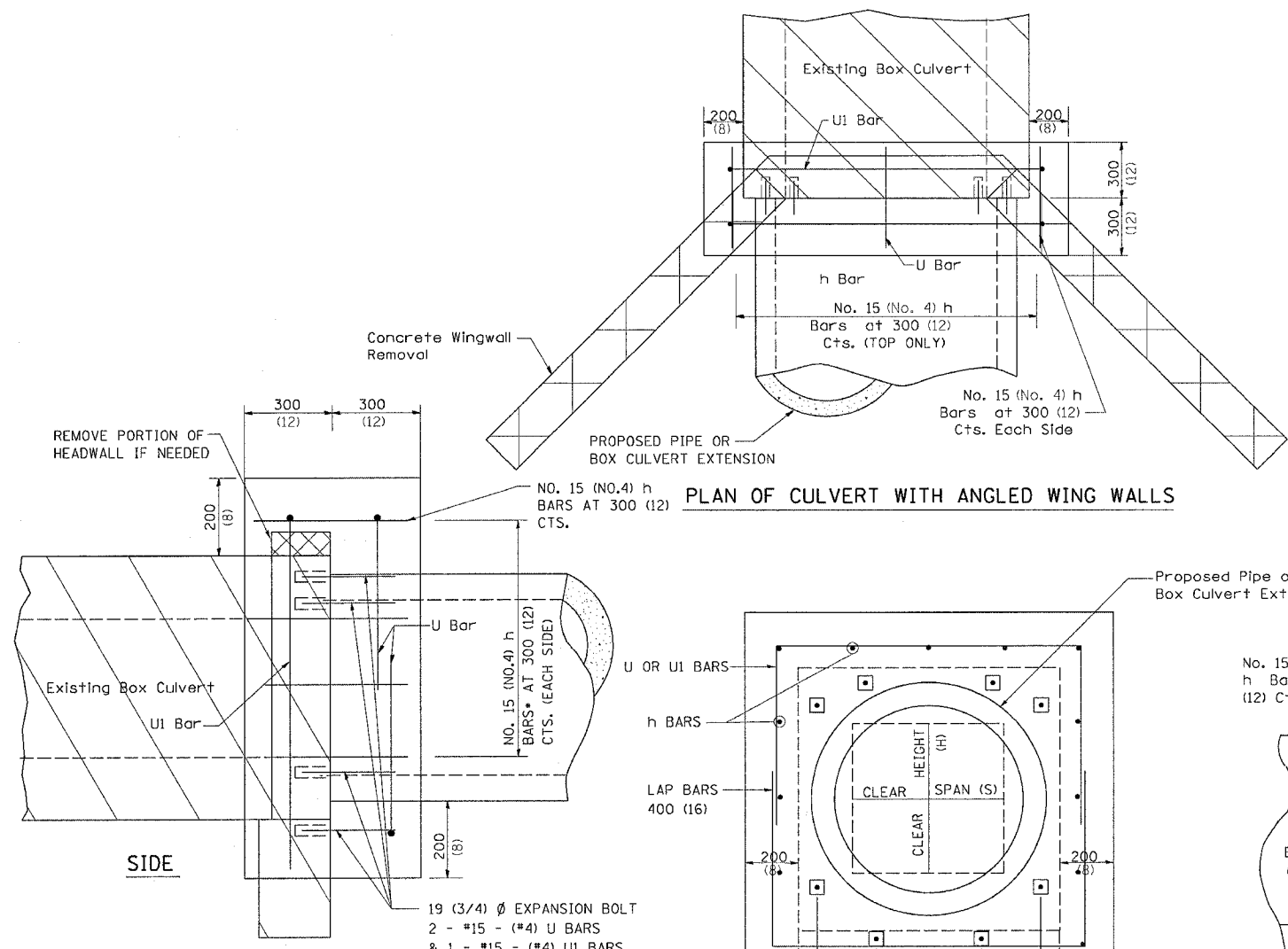


TWO CENTER CURVES

CURVE #	1	2					
R ₁	250	250					
R ₂	50	50					
O	8	8					
Δ	73	74.48					
T	90.55	91.97					
T ₁	34.55	35.79					
T ₂	20.55	21.79					
T ₃	45.36	46.31					
y	10	10					
$\frac{4y}{9}$	4.44	4.44					
$\frac{y}{9}$	1.11	1.11					
M	6.01	6.32					
$\frac{15M}{16}$	5.63	5.92					
$\frac{3M}{4}$	4.50	4.47					
$\frac{7M}{16}$	2.63	2.76					
C	47.52	48.65					

CONCRETE COLLARS FOR PIPE OR BOX CULVERT EXTENSIONS

CONTRACT NO. 64C60					
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
654	109 T	CARROLL	36	26	
STA.			TO STA.		
FED. ROAD DIST. NO.			ILLINOIS FED. AID PROJECT		



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

General Notes

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

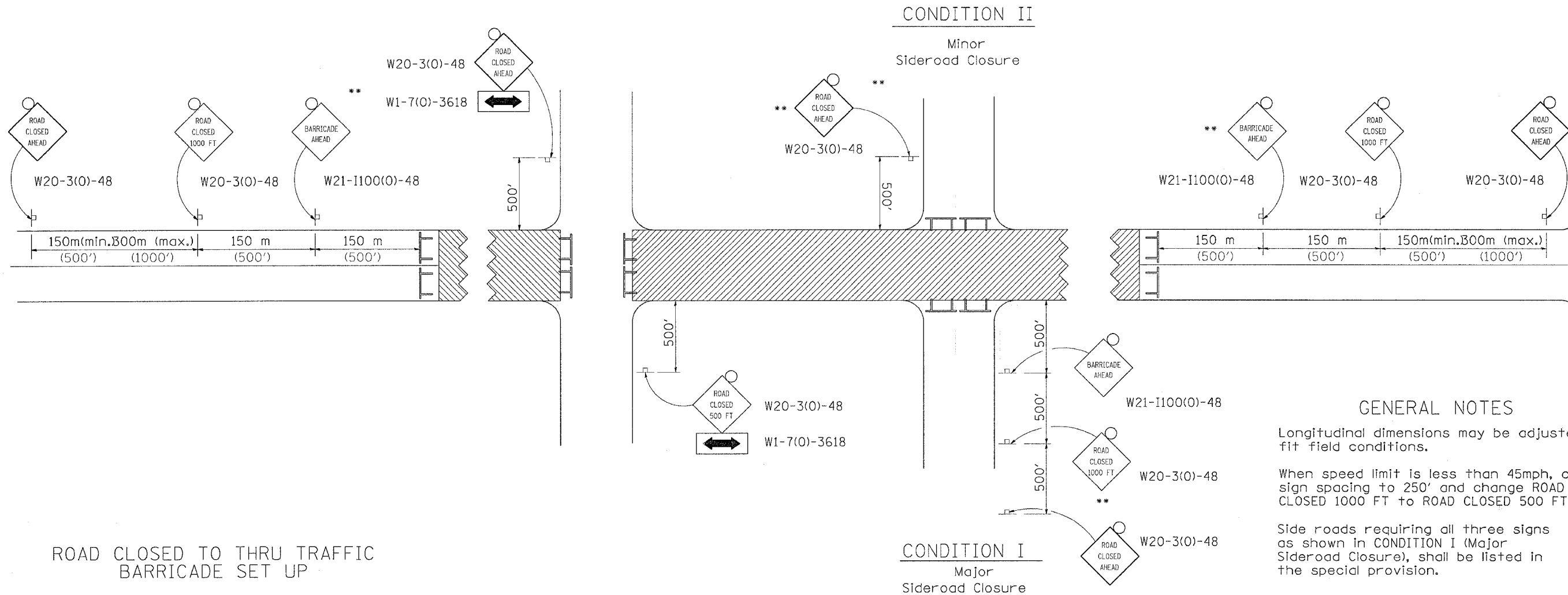
Reinforcement bars shall conform to Section 508 of the Standard Specifications.

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.

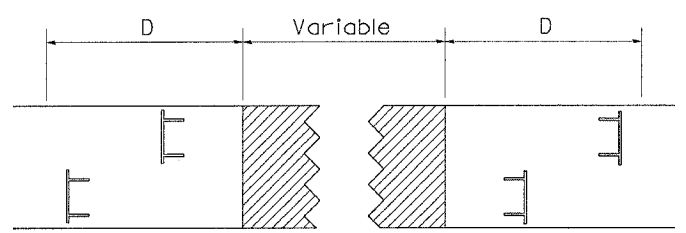
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F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
654	109 T	CARROLL	36	27
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

TRAFFIC CONTROL FOR ROAD CLOSURE



ROAD CLOSED TO THRU TRAFFIC BARRICADE SET UP



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

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

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

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

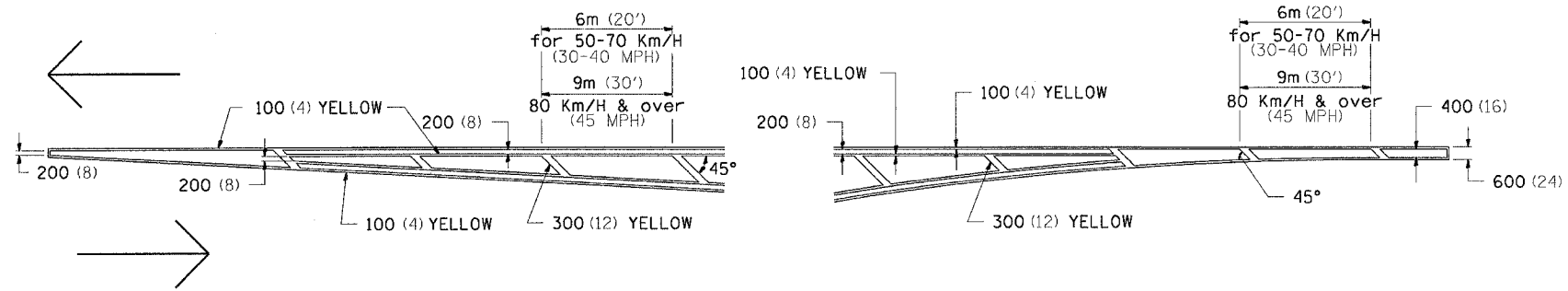
TYPICAL APPLICATION FOR ROAD CLOSURE

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 REFERENCE = SREFS

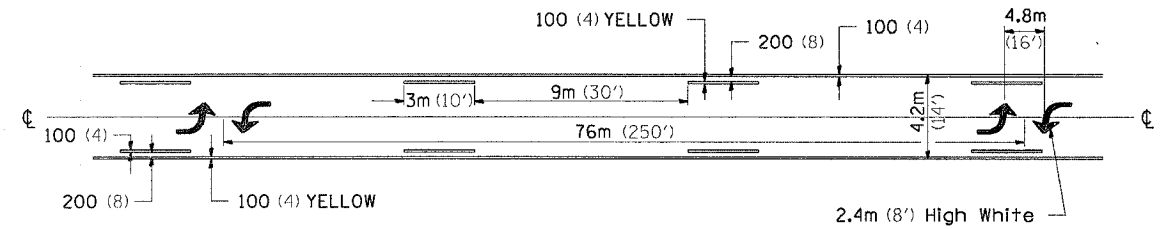
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

TYPICAL PAVEMENT MARKINGS

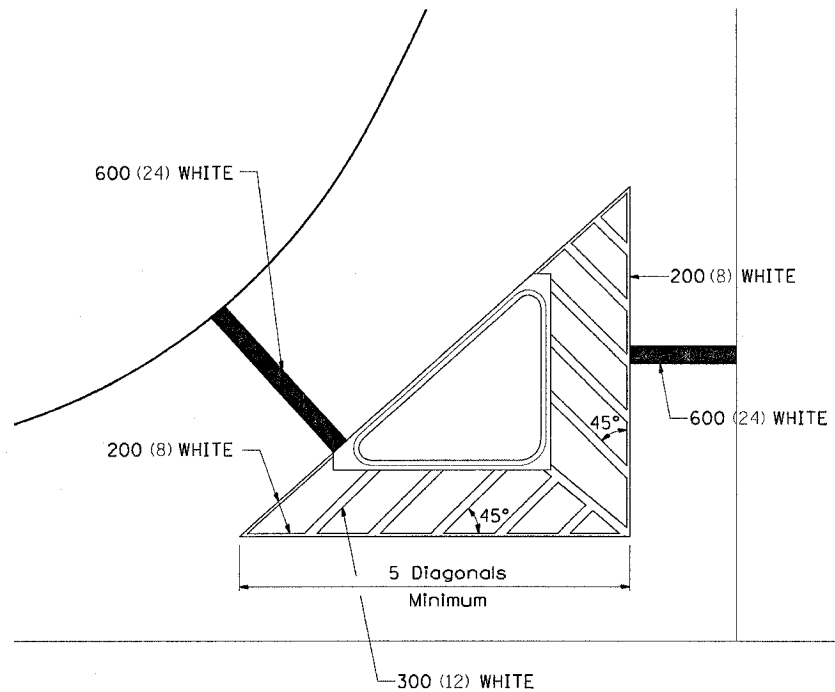
TYPICAL PAVEMENT MARKING FOR FLUSH MEDIAN AT LEFT TURN LANE



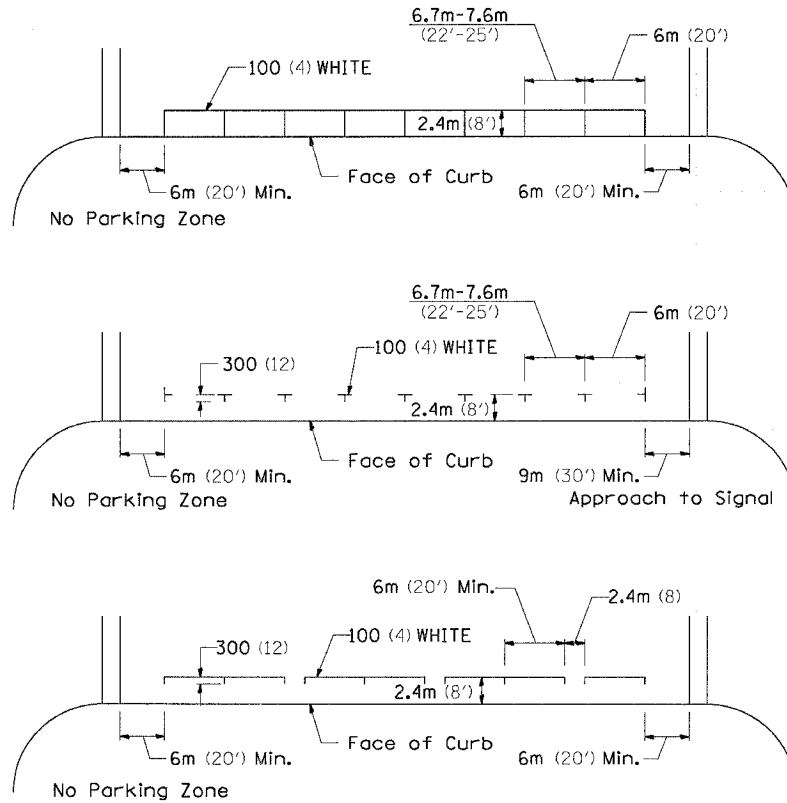
MEDIAN PAVEMENT MARKING



TYPICAL ISLAND OFFSET SHOULDER WIDTH



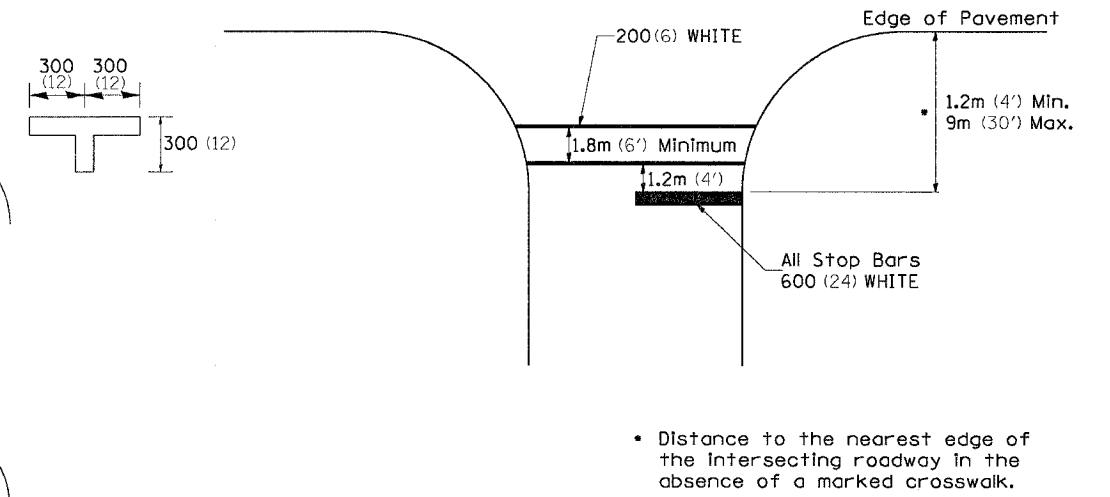
TYPICAL PARKING SPACING



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

STANDARD CROSSWALK MARKING

See Schedules for Locations



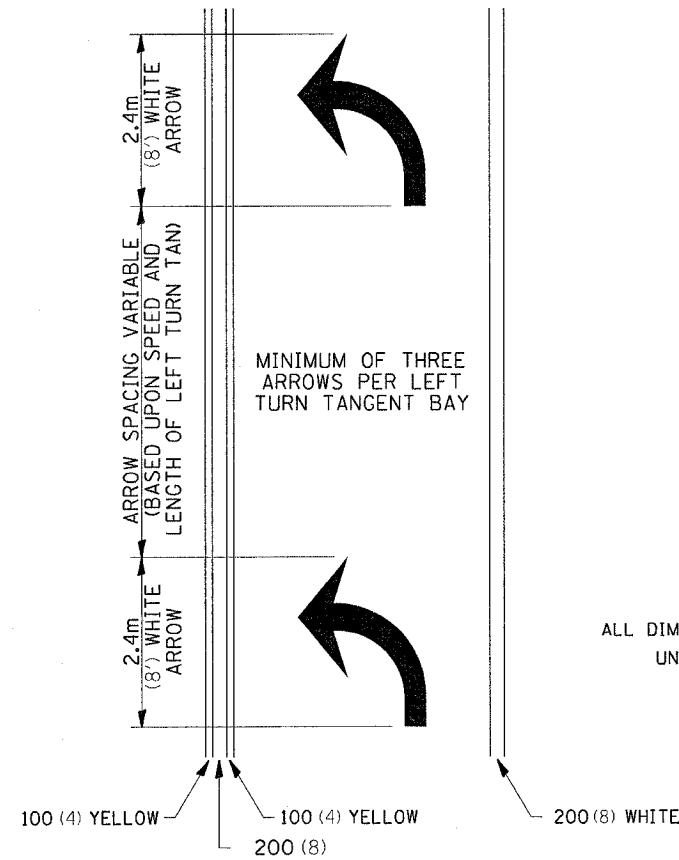
• Distance to the nearest edge of the intersecting roadway in the absence of a marked crosswalk.

PLDT DATE = Fri Mar 16 11:04:00 2007
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 REFERENCE = NONE

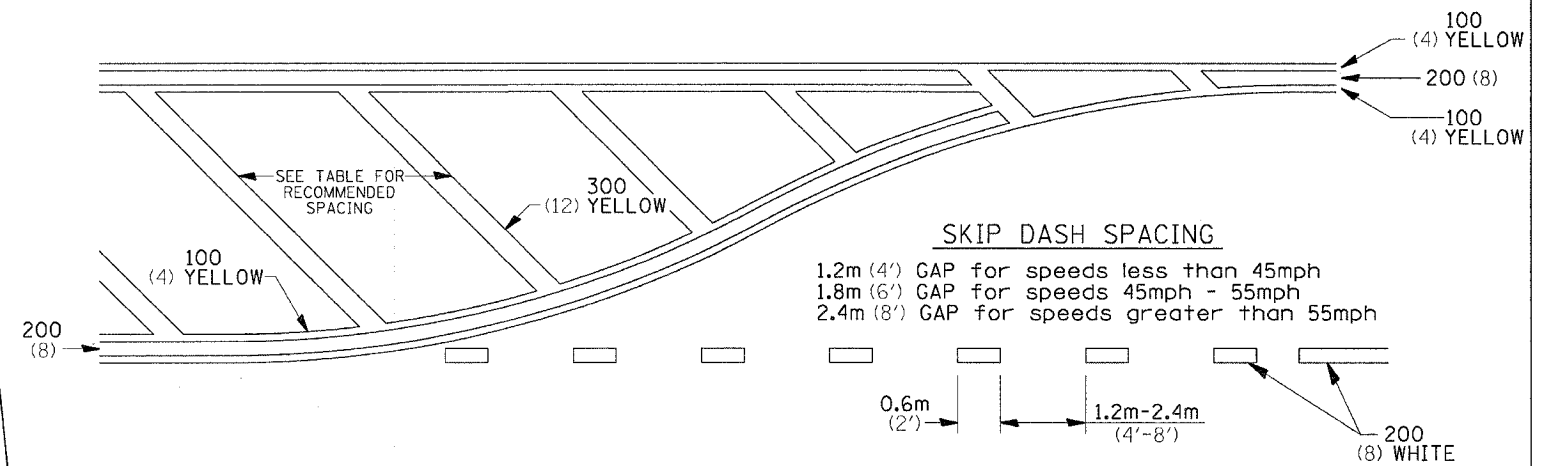
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
654	109 T	CARROLL	36	29
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	

TYPICAL PAVEMENT MARKINGS

ARROW LAYOUT



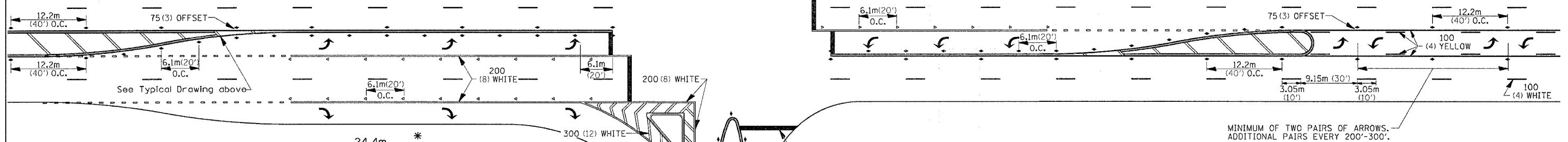
TYPICAL PAVEMENT MARKING FOR FLUSH MEDIAN



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.

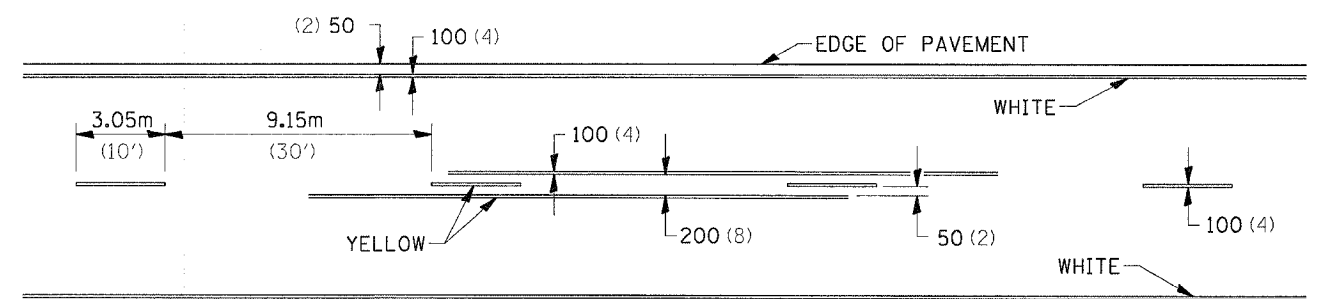


SYMBOLS

See Typical Drawing above

12.2m (40') O.C.
6 at (40') O.C.
APPROACH SIDE ONLY

TYPICAL PAVEMENT MARKING FOR TWO LANE SECTION - NO PASSING ZONES



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

MULTI-LANE / UNDIVIDED

PLUT DATE = Fri Mar 16 11:04:00 2007
FILE NAME = c:\p\projects\210305\102305pl.dgn
SCALE = 900000 / 1
REFERENCE = REF

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
654	109 T	CARROLL	36	30
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

DETAIL OF PRECAST CONCRETE BOX CULVERTS AND END SECTIONS

GENERAL NOTES

PRECAST CONCRETE BOX CULVERTS AND PRECAST CONCRETE BOX CULVERT END SECTIONS

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

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

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

ALL APPLICABLE REQUIREMENTS OF ARTICLE 540 OF THE STANDARD SPECIFICATIONS.

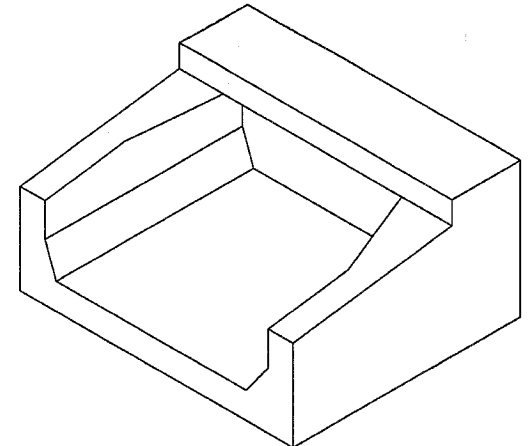
THE EXCAVATION AND BACKFILLING FOR PRECAST CONCRETE BOX CULVERT SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF SECTION 502 OF THE STANDARD SPECIFICATIONS EXCEPT A LAYER OF POROUS GRANULAR BACKFILL, AT LEAST 150 (6") IN THICKNESS, SHALL BE PLACED BELOW THE ELEVATION OF THE BOTTOM OF THE BOX. THE POROUS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

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

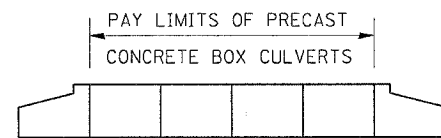
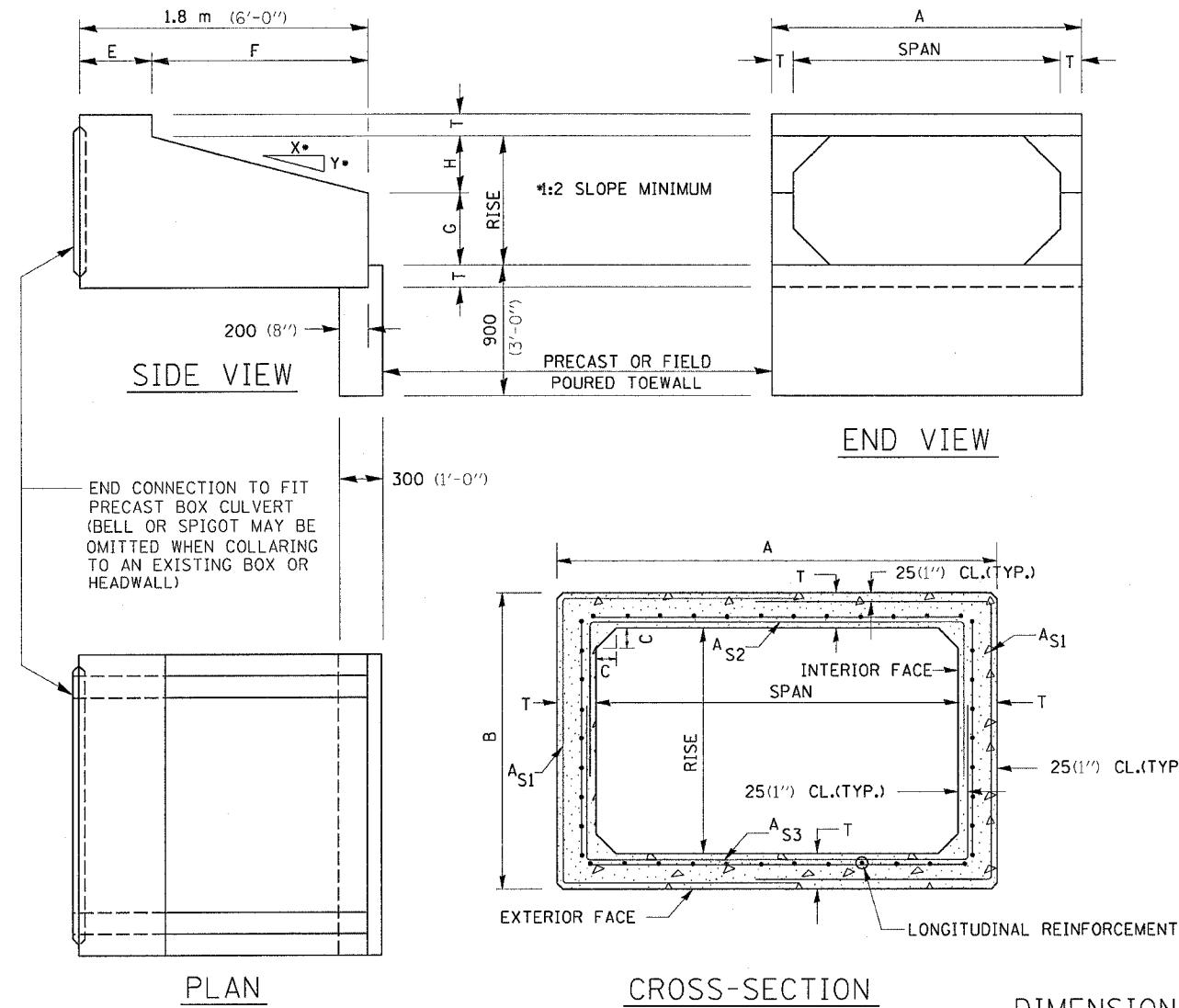
THE PRECAST CONCRETE BOX CULVERT EXCLUDING END SECTIONS WILL BE MEASURED ON A METER (LINEAL FOOT) BASIC. THE PRECAST BOX CULVERT WILL BE PAID FOR AT THE CONTRACT UNIT PRICE PER METER (LINEAL FOOT) FOR PRECAST CONCRETE BOX CULVERT, OF THE SIZE SPECIFIED, AND INCLUDES POROUS GRANULAR BACKFILL EXCAVATION 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 CONTRACT UNIT PRICE EACH FOR BOX CULVERT END SECTIONS, OF THE CULVERT NUMBER SPECIFIED, AND INCLUDE EXCAVATION, TOEWALL AND COLLARS.

ALL DIMENSIONS SHOULD BE VERIFIED WITH SUPPLIER.



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 (2-9)	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

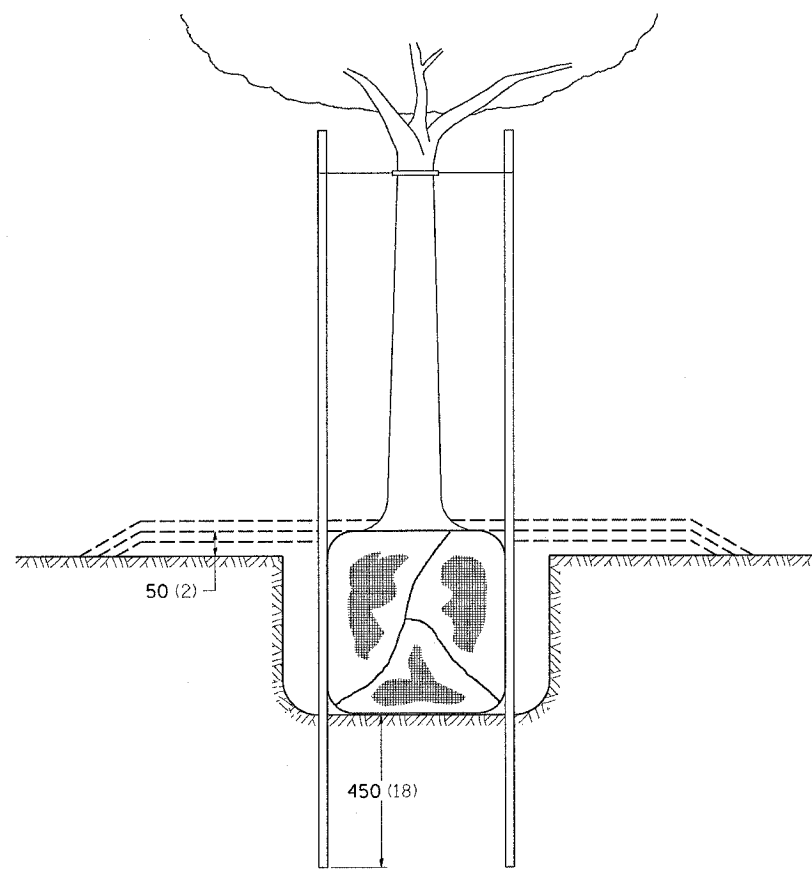
SPAN X RISE (ft) meter	T mm (INCHES)	A mm (FT.-IN.)	B mm (FT.-IN.)	C mm (INCHES)	E mm (FT.-IN.)	F mm (FT.-IN.)	G mm (FT.-IN.)	H mm (FT.-IN.)	SLOPE (X : Y)
2.1 x 0.9 (7'x3')	200 (8)	2500 (8-4)	1300 (4-4)	200 (8)	600 (2-0)	1200 (4-0)	300 (1-0)	600 (2-0)	1:2
2.1 x 1.2 (7'x4')	200 (8)	2500 (8-4)	1600 (5-4)	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

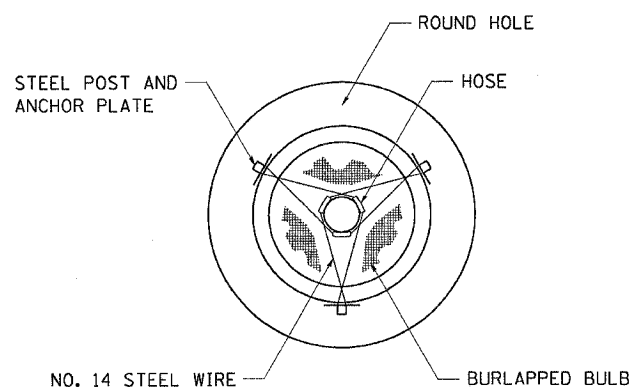
SPAN X RISE (ft) meter	T mm (INCHES)	A mm (FT.-IN.)	B mm (FT.-IN.)	C mm (INCHES)	E mm (FT.-IN.)	F mm (FT.-IN.)	G mm (FT.-IN.)	H mm (FT.-IN.)	SLOPE (X : Y)
3.3 x 2.7 (11'x9')	280 (11)	3900 (12-10)	3300 (10-10)	275 (11)	600 (2-0)	1200 (4-0)	2100 (7-0)	600 (2-0)	1:2
3.3 x 3.0 (11'x10')	280 (11)	3900 (12-10)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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
654	109 T	CARROLL	36	31
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

DETAILS OF PLANTING AND BRACING TREES

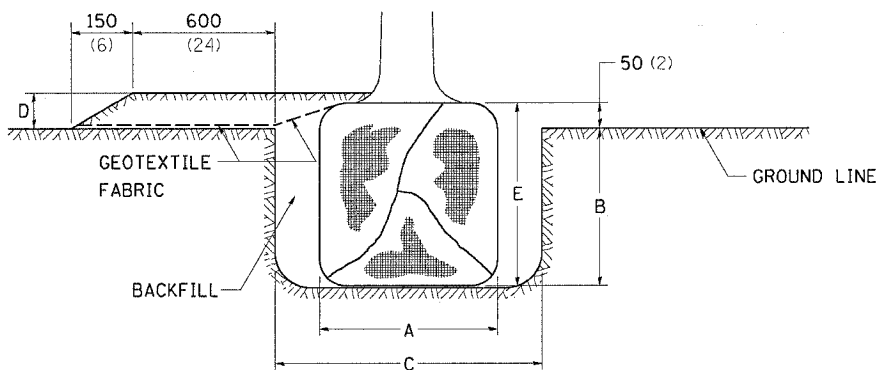


TREES SMALLER THAN 115 (4 1/2) IN DIAMETER

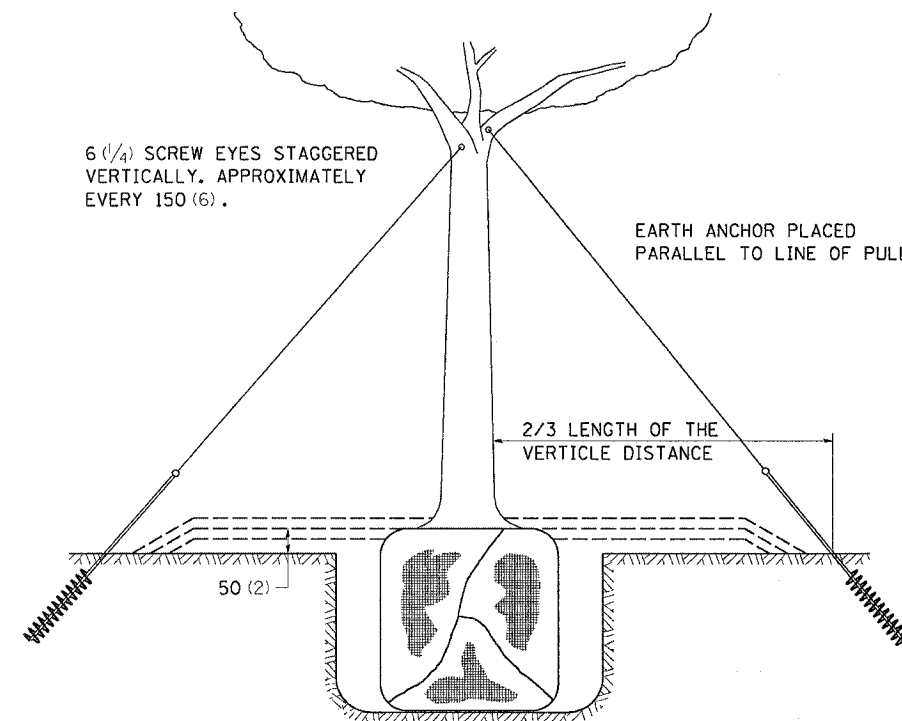


SMALL	A	B	C	D	E	F
TREE SIZE	DIAMETER OF BALL OR ROOT SYS.	DEPTH OF HOLE EXCAVATION	WIDTH OF HOLE EXCAVATION	THICKNESS OF MULCH COVER	DEPTH OF BALL OR ROOT SYS.	VOLUME OF MULCH COVER m ³ (CU. YDS.)
1.5-1.8m (5'-6')	400 (16)	250 (10)	750 (30)	100 (4)	300 (12)	0.41 (0.54)
1.5-1.8m (5'-6') BB	400 (16)	250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

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



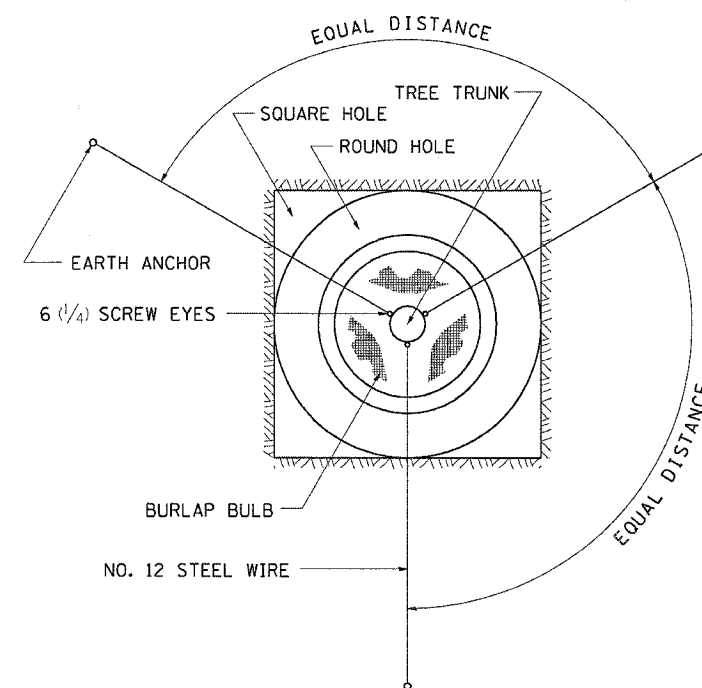
TREES OVER 115 (4 1/2) IN DIAMETER



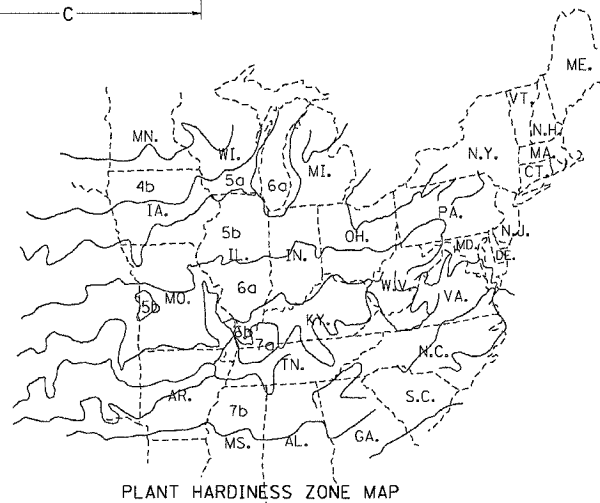
6 (1/4) SCREW EYES STAGGERED VERTICALLY. APPROXIMATELY EVERY 150 (6) .

EARTH ANCHOR PLACED PARALLEL TO LINE OF PULL.

2/3 LENGTH OF THE VERTICLE DISTANCE



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

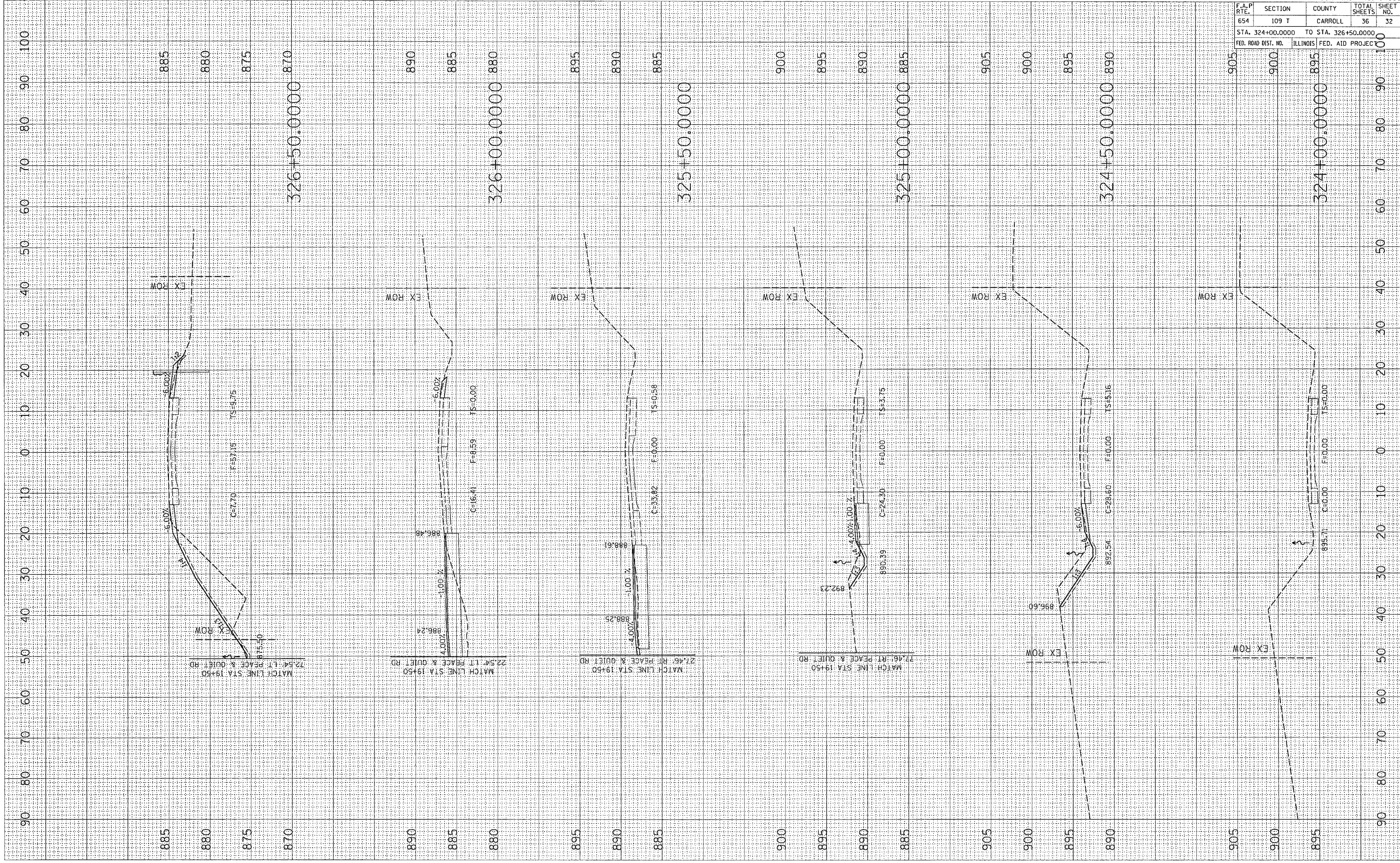


PLANT HARDINESS ZONE MAP
U.S. DEPARTMENT OF AGRICULTURE
AGRICULTURAL RESEARCH SERVICE
PUBLICATION NO. 814

PLOT DATE = Mon Mar 19 08:26:38 2007
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ORIGINAL SURVEY PLOTTED
 TEMPLATE AREAS CHECKED
 USER NAME BY DATE

FINAL SURVEY PLOTTED
 NOTE BOOK AREAS CHECKED
 USER NAME BY DATE



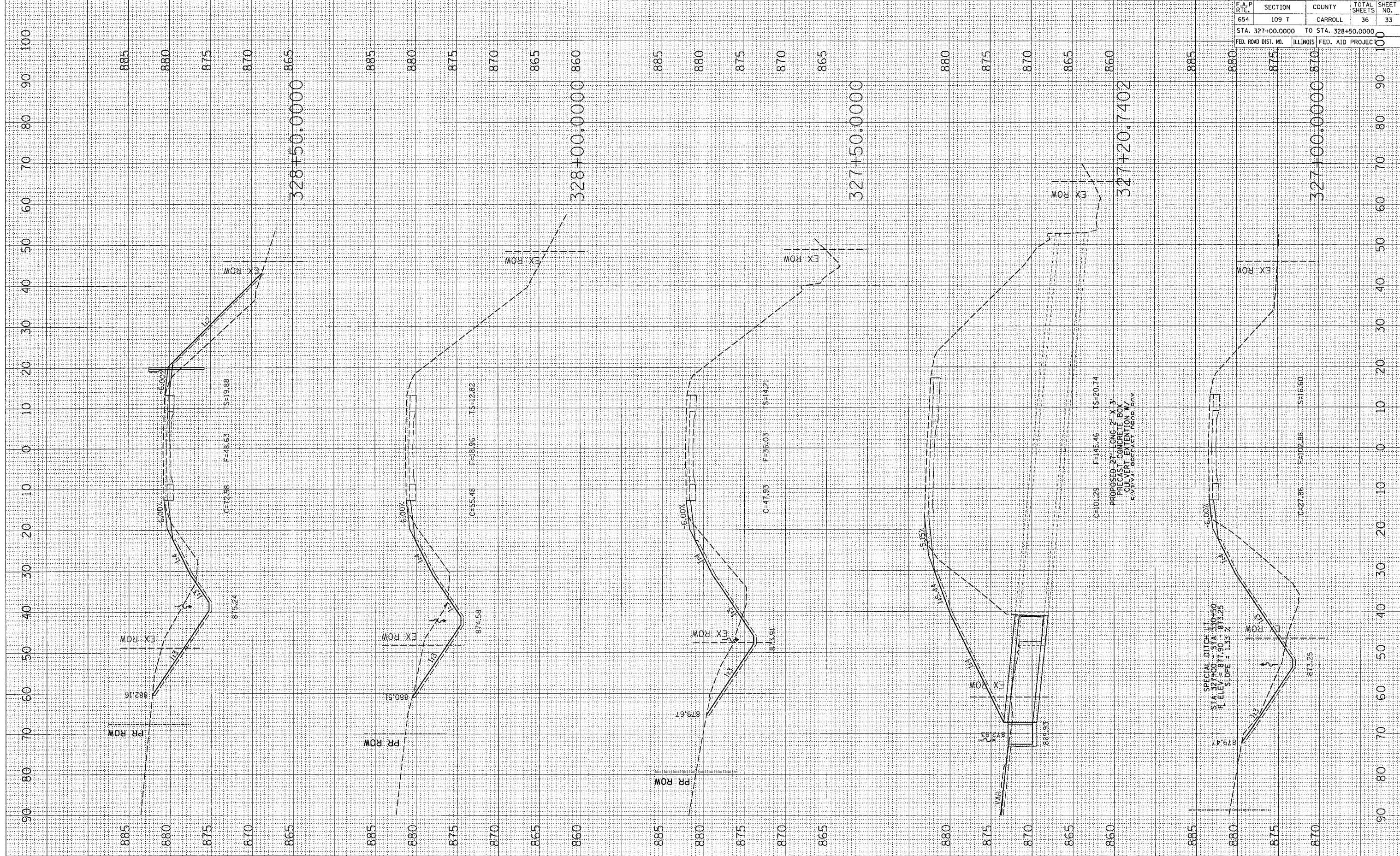
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
654	109 T	CARROLL	36	32
STA. 324+00.0000		TO STA. 326+50.0000		
ILLINOIS FED. AID PROJECT				

PLOT DATE = Mon Mar 19 08:20:30 2007
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ORIGINAL SURVEY PLOTTED
 SURVEY PLOTTED
 NOTE BOOK
 AREAS CHECKED

FINAL SURVEY PLOTTED
 SURVEY PLOTTED
 NOTE BOOK
 AREAS CHECKED

BY: _____
 DATE: _____

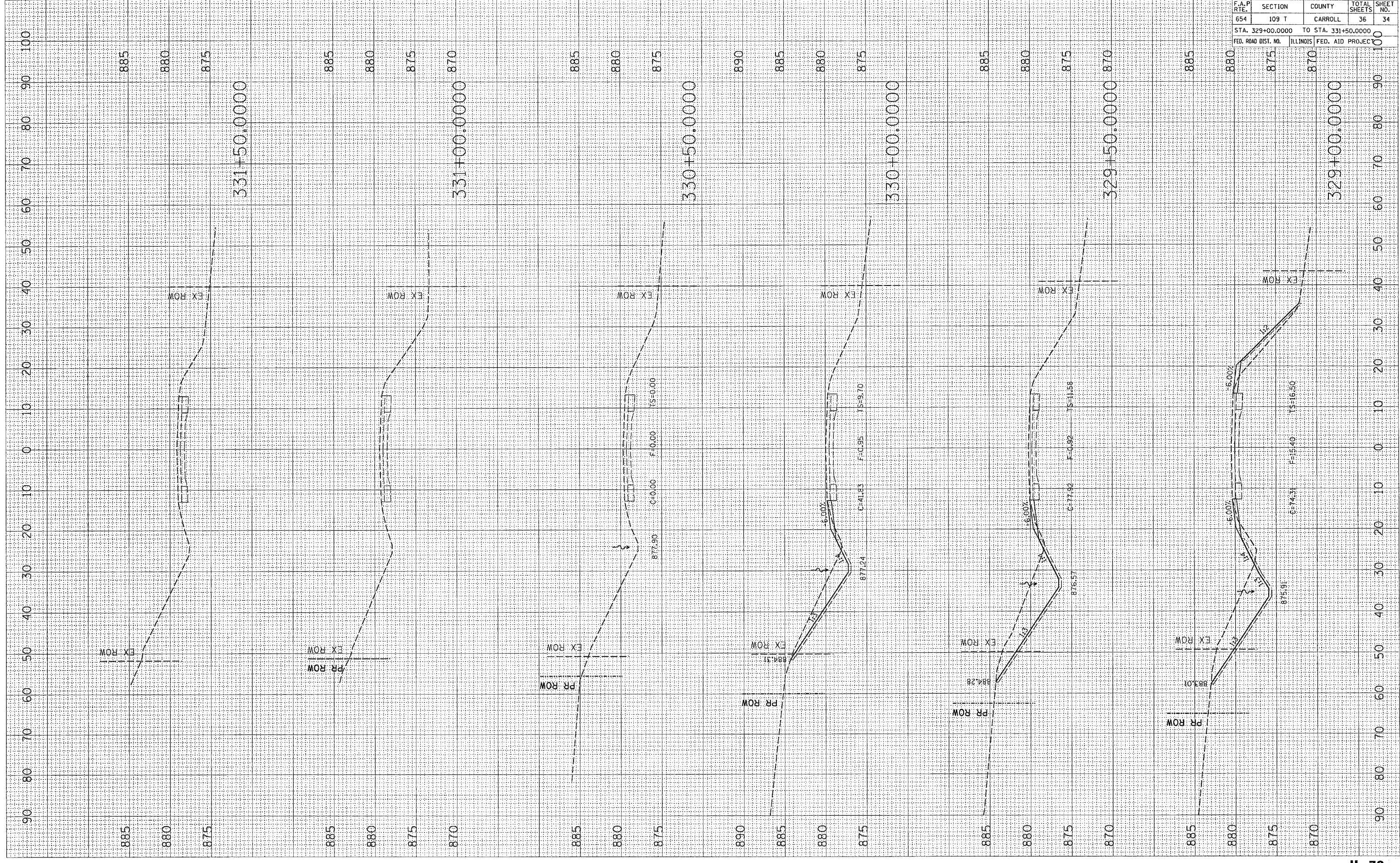


PLOT DATE = Mon Mar 19 06:28:31 2007
 PLOT SCALE = 10.0000 / IN
 USER NAME = gpf,jj

ORIGINAL SURVEYED SURVEY PLOTTED AREAS CHECKED
 NO. _____

FINAL SURVEY SURVEYED SURVEY PLOTTED AREAS CHECKED
 NO. _____

BY _____ DATE _____

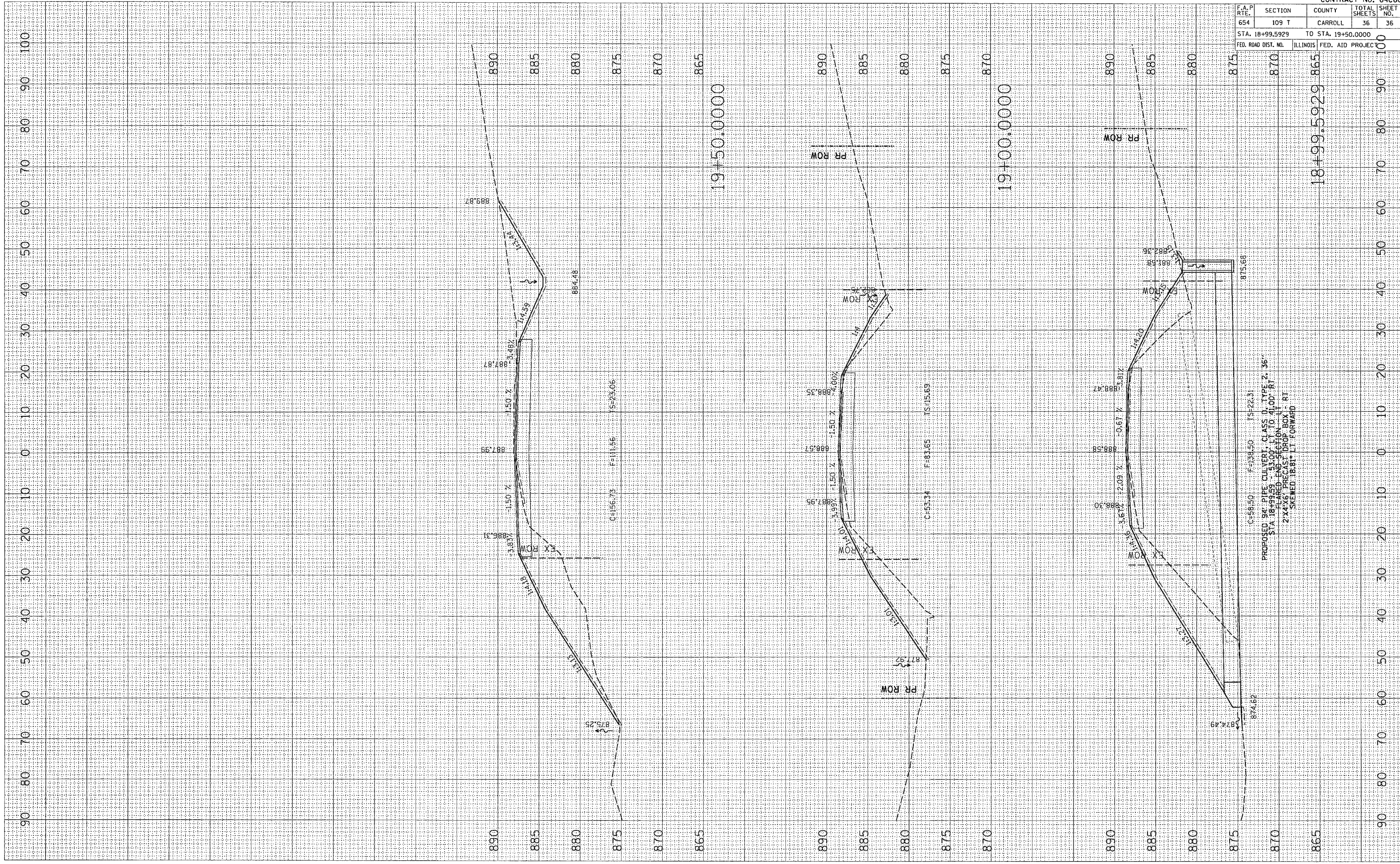


F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
654	109 T	CARROLL	36	34
STA. 329+00.0000		TO STA. 331+50.0000		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJEC	

PLOT DATE = Mon Mar 19 08:26:30 2007
 FILE NAME = c:\projects\18+99.5929\18+99.5929.dwg
 PLOT SCALE = 1/8" = 1' IN.
 USER NAME = gpr/jj

ORIGINAL SURVEY PLOTTED
 SURVEY PLOTTED
 NOTE BOOK
 AREAS
 AREAS
 BY: _____ DATE: _____

FINAL SURVEY PLOTTED
 SURVEY PLOTTED
 NOTE BOOK
 AREAS
 AREAS
 BY: _____ DATE: _____



CONTRACT NO. 64C60				
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
654	109 T	CARROLL	36	36
STA. 18+99.5929 TO STA. 19+50.0000				
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	

PROPOSED 94" PIPE CULVERT, CLASS 0, TYPE 2, 36"
 STA 18+99.59 - 53.00' LT TO 41.00' RT
 FLARED END SECTION - LT
 2'x4'x6' PRECAST DROP BOX - RT
 SKEWED 18.81° LT FORWARD