

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
642	11T	CARROLL	79	1

PROJECT ENGINEER: REBECCA MARRUFFO

SENIOR SQUAD LEADER: DAWN PERKINS (815)-284-5948

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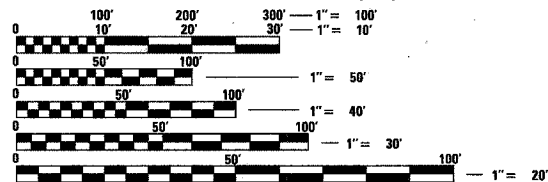
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STATE STANDARDS

- 280001-04 TEMPORARY EROSION CONTROL SYSTEMS
- 442201-03 CLASS C AND D PATCHES
- 482011-03 HMA SHOULDER STRIPS/SHOULDERS WITH RESURFACING OR WIDENING AND RESURFACING PROJECTS
- 515001-02 NAME PLATE FOR BRIDGES
- 542306-01 PRECAST REINFORCED CONCRETE ELLIPTICAL FLARED END SECTION
- 630001-07 STEEL PLATE BEAM GUARDRAIL
- 630201-05 PCC/HMA STABILIZATION AT STEEL PLATE BEAM GUARDRAIL
- 630301-04 SHOULDER WIDENING FOR TYPE 1 (SPECIAL) GUARDRAIL TERMINALS
- 635001 DELINEATORS
- 635006-02 REFLECTOR AND TERMINAL MARKER PLACEMENT
- 635011-01 REFLECTOR MARKER AND MOUNTING DETAILS
- 666001 RIGHT OF WAY MARKERS
- 667101 PERMANENT SURVEY MARKERS
- 701006-02 OFF-ROAD OPERATIONS 2L, 2W, 4.5 M (15') TO 600 MM (24") FROM PAVEMENT EDGE
- 701201-02 LANE CLOSURE 2L, 2W, DAY ONLY, FOR SPEEDS >= 45 MPH
- 701301-02 LANE CLOSURE 2L, 2W, SHORT TIME OPERATIONS
- 701306-01 LANE CLOSURE 2L, 2W, SLOW MOVING OPERATIONS DAY ONLY, FOR SPEEDS >= 45 MPH
- 701311-02 LANE CLOSURE 2L, 2W MOVING OPERATIONS - DAY ONLY
- 701321-09 LANE CLOSURE 2L, 2W, BRIDGE REPAIR WITH BARRIER
- 701901 TRAFFIC CONTROL DEVICES
- 704001-04 TEMPORARY CONCRETE BARRIER
- 720011 METAL POSTS FOR SIGNS, MARKERS & DELINEATORS
- 728001 TELESCOPING STEEL SIGN SUPPORT
- 729001 APPLICATIONS OF TYPES A & B METAL POSTS (FOR SIGNS & MARKERS)
- 780001-01 TYPICAL PAVEMENT MARKINGS
- 781001-02 TYPICAL APPLICATIONS RAISED REFLECTIVE PAVEMENT MARKERS
- 000001-05 STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS
- 001001-01 AREAS OF REINFORCEMENT BARS
- 001006 DECIMAL OF AN INCH AND OF A FOOT

DESIGN DESIGNATION

ILLINOIS ROUTE 78 180 (24) MINOR ARTERIAL



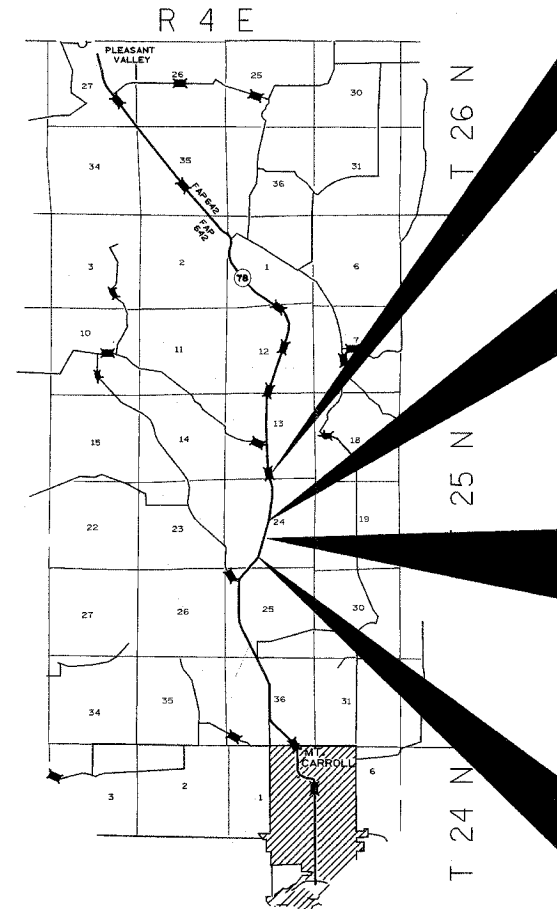
FULL SIZE PLANS HAVE BEEN PREPARED USING STANDARD ENGINEERING SCALES. REDUCED SIZED PLANS WILL NOT CONFORM TO STANDARD SCALES. IN MAKING MEASUREMENTS ON REDUCED PLANS, THE ABOVE SCALES MAY BE USED.

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

CONTRACT NO. 64D82

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

FAP ROUTE 642 (IL 78)
SECTION 11T
PROJECT : ACF-0642(120)
CARROLL COUNTY
C-92-013-08



IMPROVEMENT BEGINS
STA.842 + 00

INCLUDES THE REMOVAL AND REPLACEMENT OF THE EXISTING BOX CULVERT
EXISTING SN-008-1052
PROPOSED SN-008-1105

IMPROVEMENT ENDS
STA.844 + 00

IMPROVEMENT BEGINS
STA.825 + 50

INCLUDES THE REMOVAL AND REPLACEMENT OF THE EXISTING BOX CULVERT
EXISTING SN-008-1054
PROPOSED SN-008-1104

IMPROVEMENT ENDS
STA.827 + 50

IMPROVEMENT BEGINS
STA.811 + 76

INCLUDES THE REMOVAL AND REPLACEMENT OF THE EXISTING BOX CULVERT
EXISTING SN-008-1055
PROPOSED SN-008-1103

IMPROVEMENT ENDS
STA.816 + 39.10

IMPROVEMENT BEGINS
STA.798 + 18.26

INCLUDES THE REMOVAL AND REPLACEMENT OF THE EXISTING BOX CULVERT
EXISTING SN-008-1056
PROPOSED SN-008-1102

IMPROVEMENT BEGINS
STA.808 + 20.50

IMPROVEMENT ENDS
STA.808 + 20.50



LOCATION OF SECTION INDICATED THUS: - [thick black line] -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

SUBMITTED 10/12 2007

Debra F. Ryan
DEPUTY DIRECTOR OF HIGHWAYS, REGION ENGINEER

December 7, 2007
Eric E. Harrell
ENGINEER OF DESIGN AND ENVIRONMENT

December 7, 2007
Christie M. Reed
DIRECTOR OF HIGHWAYS, CHIEF ENGINEER

PRINTED BY THE AUTHORITY OF THE STATE OF ILLINOIS

WOODLAND TOWNSHIP, SECTION 24

GROSS LENGTH OF PROJECT = 4,582 LIN. FT. = 0.87 MILES

NET LENGTH OF PROJECT = 1,865 LIN. FT. = 0.35 MILES

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
642	11T	CARROLL	79	3
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

SUMMARY OF QUANTITIES

CODE NO.	ITEM	UNIT	80% FED 20% STATE Y007
50800105	REINFORCEMENT BARS	POUND	22897
50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	610
50901760	PIPE HANDRAIL	FOOT	103.2
51205200	TEMPORARY SHEET PILING	SQ FT	4537
51500100	NAME PLATES	EACH	5
54010707	PRECAST CONCRETE BOX CULVERT 7' X 7'	FOOT	176
54010808	PRECAST CONCRETE BOX CULVERT 8' X 8'	FOOT	88
54011008	PRECAST CONCRETE BOX CULVERT 10' X 8'	FOOT	98
542A5491	PIPE CULVERTS, CLASS A, TYPE I EQUIVALENT ROUND-SIZE 36"	FOOT	258
542D0220	PIPE CULVERTS, CLASS D, TYPE 1 15"	FOOT	46
542D0223	PIPE CULVERTS, CLASS D, TYPE 1 18"	FOOT	82
54213450	END SECTIONS 15"	EACH	2
54213453	END SECTIONS 18"	EACH	1
54214521	PRECAST REINFORCED CONCRETE FLARED END SECTIONS, EQUIVALENT ROUND-SIZE 36"	EACH	4
* 63000000	STEEL PLATE BEAM GUARD RAIL, TYPE A	FOOT	400
* 63100167	TRAFFIC BARRIER TERMINAL TYPE 1, SPECIAL (TANGENT)	EACH	4
63200310	GUARDRAIL REMOVAL	FOOT	852
63500105	DELINEATORS	EACH	14
66411900	TEMPORARY FENCE	FOOT	299
66502300	WOVEN WIRE FENCE REMOVAL	FOOT	3140
66600105	FURNISHING AND ERECTING RIGHT-OF-WAY MARKERS	EACH	40
66700305	PERMANENT SURVEY MARKERS, TYPE II	EACH	10
67000400	ENGINEER'S FIELD OFFICE, TYPE A	CAL MO	4
67100100	MOBILIZATION	L SUM	1
70100405	TRAFFIC CONTROL AND PROTECTION, STANDARD 701321	EACH	2
70100450	TRAFFIC CONTROL AND PROTECTION, STANDARD 701201	L SUM	1
70100460	TRAFFIC CONTROL AND PROTECTION, STANDARD 701306	L SUM	1
70103815	TRAFFIC CONTROL SURVEILLANCE	CAL DA	60

* Speciality Item

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F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
642	11T	CARROLL	79	4
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

SUMMARY OF QUANTITIES

CODE NO.	ITEM	UNIT	80% FED 20% STATE
70106500	TEMPORARY BRIDGE TRAFFIC SIGNALS	EACH	2
70106700	TEMPORARY RUMBLE STRIP	EACH	18
70300520	PAVEMENT MARKING TAPE TYPE III, 4"	FOOT	8424
70300570	PAVEMENT MARKING TAPE TYPE III, 24"	FOOT	66
70301000	WORK ZONE PAVEMENT MARKING REMOVAL	SQ FT	2941
70400100	TEMPORARY CONCRETE BARRIER	FOOT	1038
70400200	RELOCATE TEMPORARY CONCRETE BARRIER	FOOT	1013
* 78001110	PAINT PAVEMENT MARKING LINE 4"	FOOT	6133
* 78100100	RAISED REFLECTIVE PAVEMENT MARKER	EACH	8
* 78200410	GUARDRAIL MARKERS, TYPE A	EACH	8
* 78201000	TERMINAL MARKER - DIRECT APPLIED	EACH	4
78300105	PAVEMENT MARKING REMOVAL	FOOT	5890
78300200	RAISED REFLECTIVE PAVEMENT MARKER REMOVAL	EACH	8
* A2002914	TREE, CELTIS OCCIDENTALIS (COMMON HACKBERRY), 1-3/4" CALIPER, BALLED AND BURLAPPED	EACH	32
X0323988	TEMPORARY SOIL RETENSION SYSTEM	SQ FT	2037
X4810100	TEMPORARY SHOULDERS	SQ YD	48
XX002909	CLASS SI CONCRETE	CU YD	168.9
Z0005400	BREAKER-RUN CRUSHED STONE	TON	1163
Z0013798	CONSTRUCTION LAYOUT	L SUM	1
Z0030250	IMPACT ATTENUATORS, TEMPORARY (NONREDIRECTIVE), TEST LEVEL 3	EACH	6
Z0030350	IMPACT ATTENUATORS, RELOCATE (NONREDIRECTIVE), TEST LEVEL 3	EACH	4
* Z5100900	TURF REINFORCEMENT MAT	SQ YD	219

* Specialty Item

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GENERAL NOTES

ROUTE NO.	SEC.	COUNTY	TOTAL SHEETS	SHEET NO.
FAP 642 (IL 78)	11T	Carroll	79	5
FED ROAD DIST. NO.	ILLINOIS	PROJECT		
Contract #64D82				

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

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

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.

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.

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

The following Mixture Requirements are applicable for this project:

Mixture Uses(s):	Shoulders - Lower	Shoulders - Top	Incidental
PG:	PG 58-22	PG 58-22	PG 64-22
Design Air Voids	2 @ N50	3 @ N50	4 @ N50
Mixture Composition (Gradation Mixture)	BAM or IL 19.0	IL 9.5 or 12.5	IL 9.5 or 12.5
Friction Aggregate	N/A	C	C
20 Year ESAL	N/A	N/A	N/A

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.

The new number for the structure at Sta. 801+47 will be 008-1101.

The new number for the structure at Sta. 805+74 will be 008-1102.

The new number for the structure at Sta. 813+60 will be 008-1103.

The new number for the structure at Sta. 826+67 will be 008-1104.

The new number for the structure at Sta. 843+04 will be 008-1105.

The review and approval of temporary sheet piling will require 4 to 6 weeks. The Contractor shall schedule his work accordingly.

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

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

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

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

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

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

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.

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

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

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

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

PERMANENT SURVEY MARKERS, TYPE II, shall be set at intervals of 1.6 Km (1 mile) or as directed by the Engineer. Bridge or culvert projects shall have two survey markers placed near the structure. Estimated: 10 Each.

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

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

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

Program #6
(Arch. Size)
Enlarge
200%
Enlarge 107%

GENERAL NOTES

ROUTE NO.	SEC.	COUNTY	TOTAL SHEETS	SHEET NO.
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Contract #64D82				

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:

Gallatin River Communications
Jo-Carroll Energy

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.

Tree replacement layout to be performed by the District Landscape Architect.

Each tree shall receive five foot diameter of mulch, 4 inches thick, with weed barrier fabric around the base to be included in the cost of the tree.

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 Class "SI" Concrete.

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 SURFACE COURSE of the type specified.

The Contractor shall contact Arlo Paxton at home # 815/541-4835 or cell # 815/947-2593 prior to removal of fence at the following locations:

Sta. 800+00 to Sta. 807+24.69 Lt.
Sta. 812+00 to Sta. 815+00 Lt.

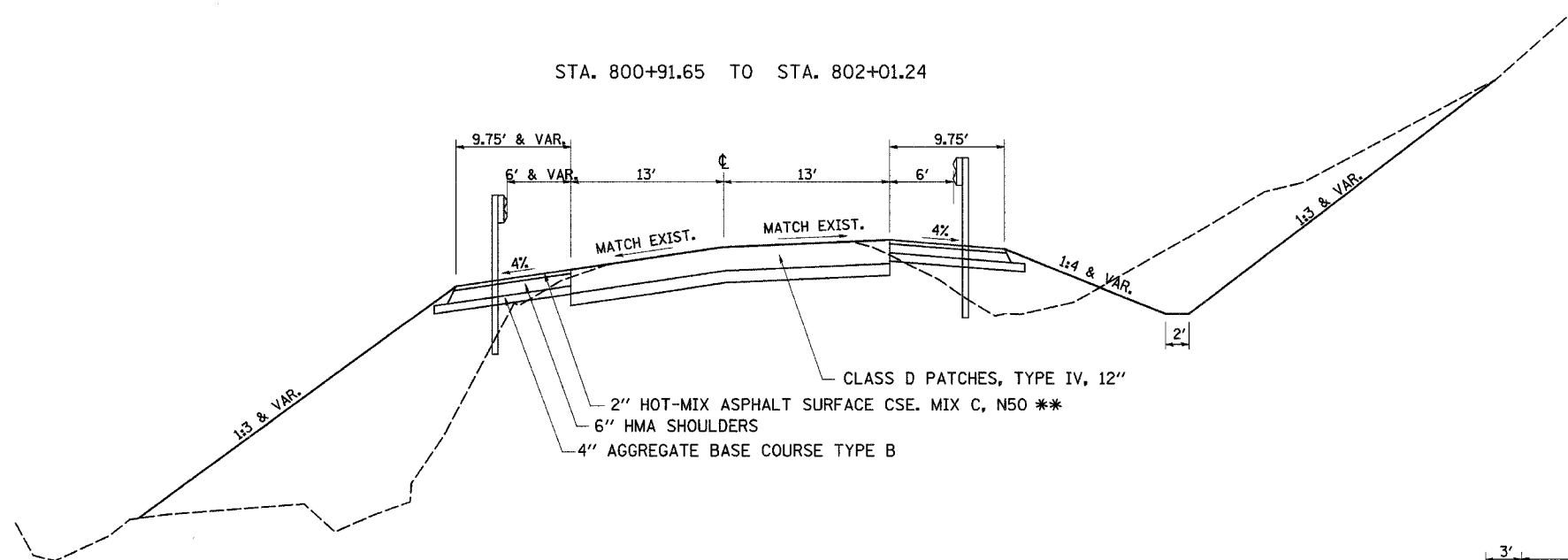
The Contractor shall use a Narrow Impact Attenuator at the following locations in Stage 3 of construction of culverts

Sta. 801+47 and 805+74.24;
Sta. 802+12.84 Lt.
Sta. 806+49.94 Lt.

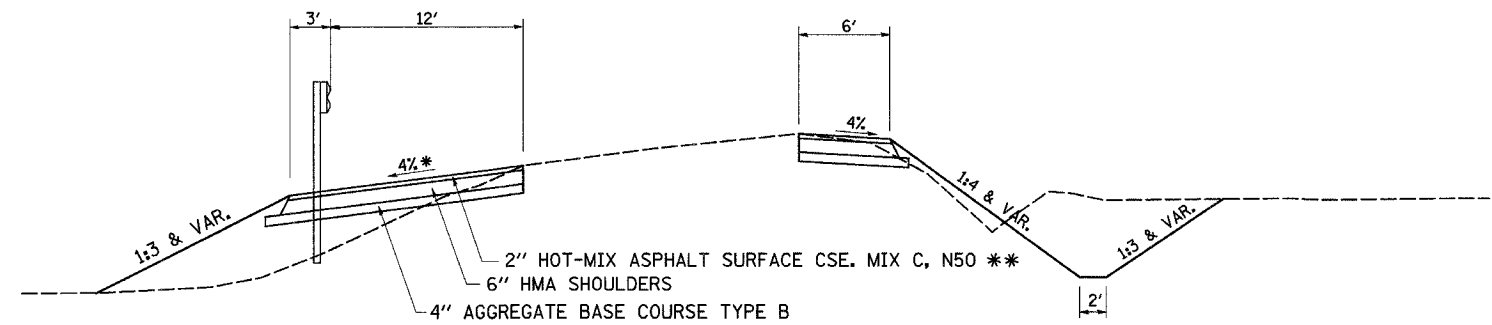
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
642	11T	CARROLL	79	7
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

TYPICAL SECTIONS

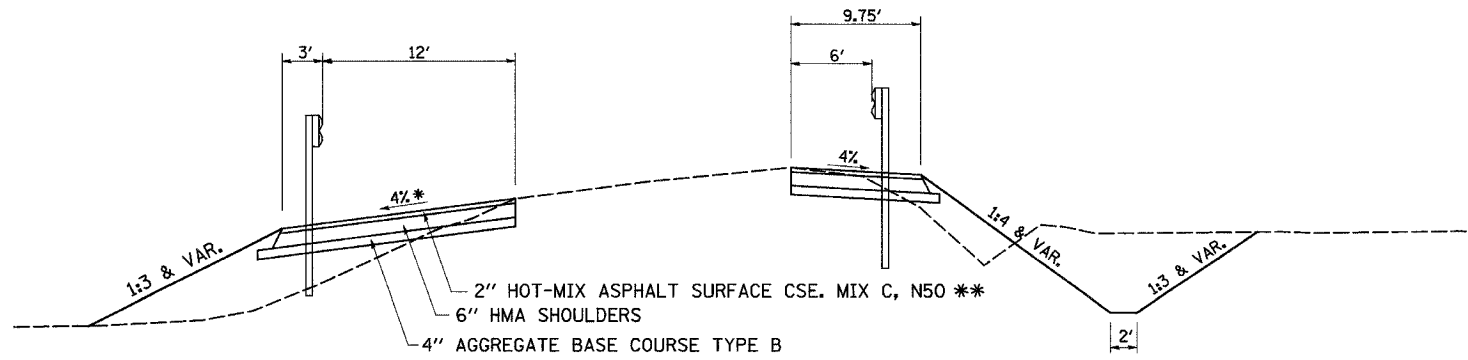
STA. 800+91.65 TO STA. 802+01.24



STA. 802+01.24 TO STA. 805+13.91



STA. 798+43 TO STA. 800+91.65



* MATCH EXISTING MAINLINE SLOPE IN SUPER ELEVATED SECTIONS
 ** 112 LB/SQ YD IN

* MATCH EXISTING MAINLINE SLOPE IN SUPER ELEVATED SECTIONS

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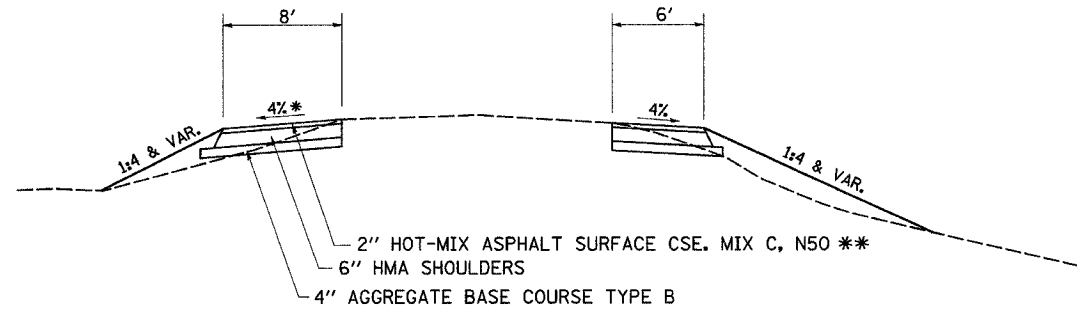
REVISIONS		ILLINOIS DEPARTMENT OF TRANSPORTATION
NAME	DATE	
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DRAWN BY _____
 CHECKED BY _____

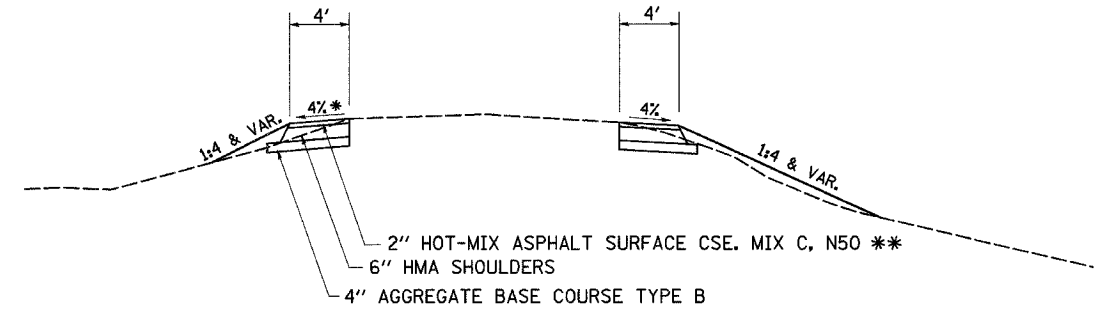
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FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

TYPICAL SECTIONS

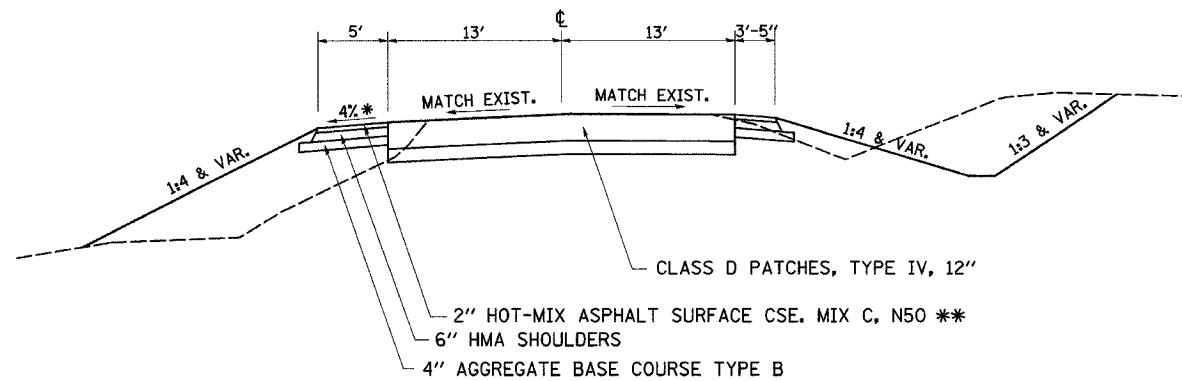
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 STA. 806+33.96 TO STA. 807+62.33



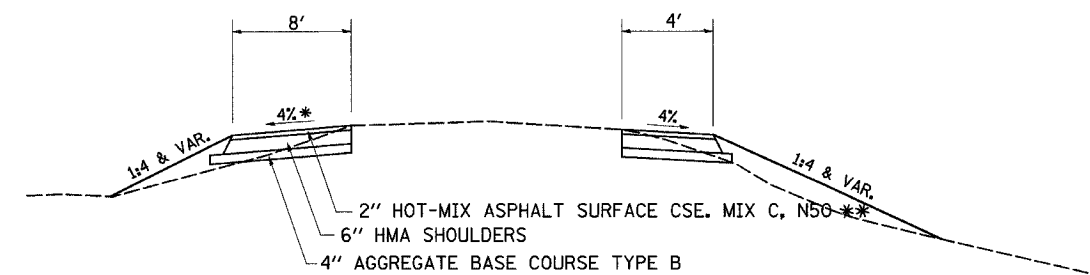
STA. 807+62.33 TO STA. 810+90.60
 STA. 815+88.56 TO STA. 816+50



STA. 805+13.91 TO STA. 806+33.96



STA. 810+90.60 TO STA. 813+13
 STA. 813+14 TO STA. 815+88.56



* MATCH EXISTING MAINLINE SLOPE IN SUPER ELEVATED SECTIONS
 ** 112 LB/SQ YD IN

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

SCALE: VERT.
 HORIZ.
 DATE

DRAWN BY
 CHECKED BY

TYPICAL SECTIONS

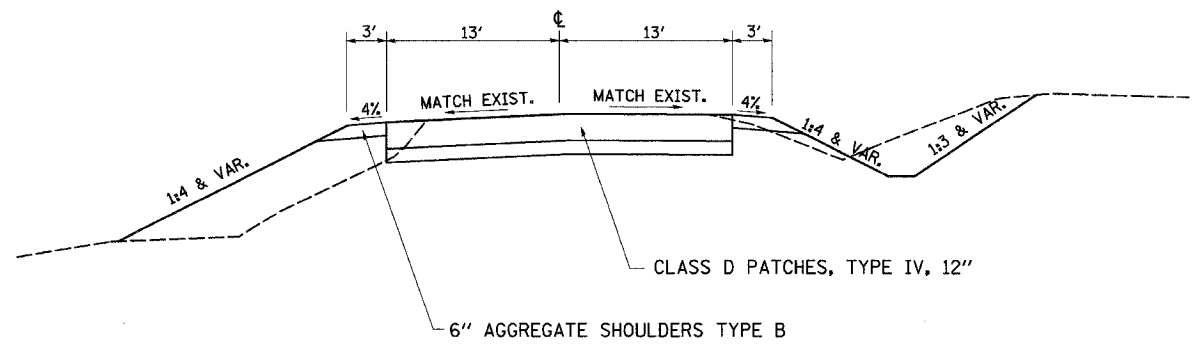
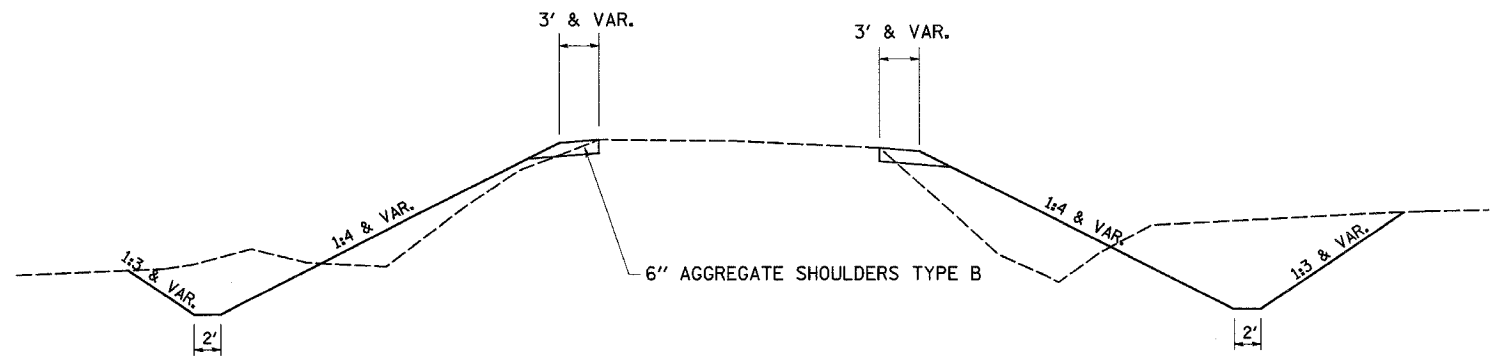
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F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
642	11T	CARROLL	79	9
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	

TYPICAL SECTIONS

STA. 825+50.00 TO STA. 826+40.82
 STA. 826+92.66 TO STA. 827+50.00
 STA. 842+00.00 TO STA. 842+76.81
 STA. 843+32.38 TO STA. 844+00.00

STA. 826+40.82 TO STA. 826+92.66
 STA. 842+76.01 TO STA. 843+32.38



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REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

SCALE: VERT. DATE
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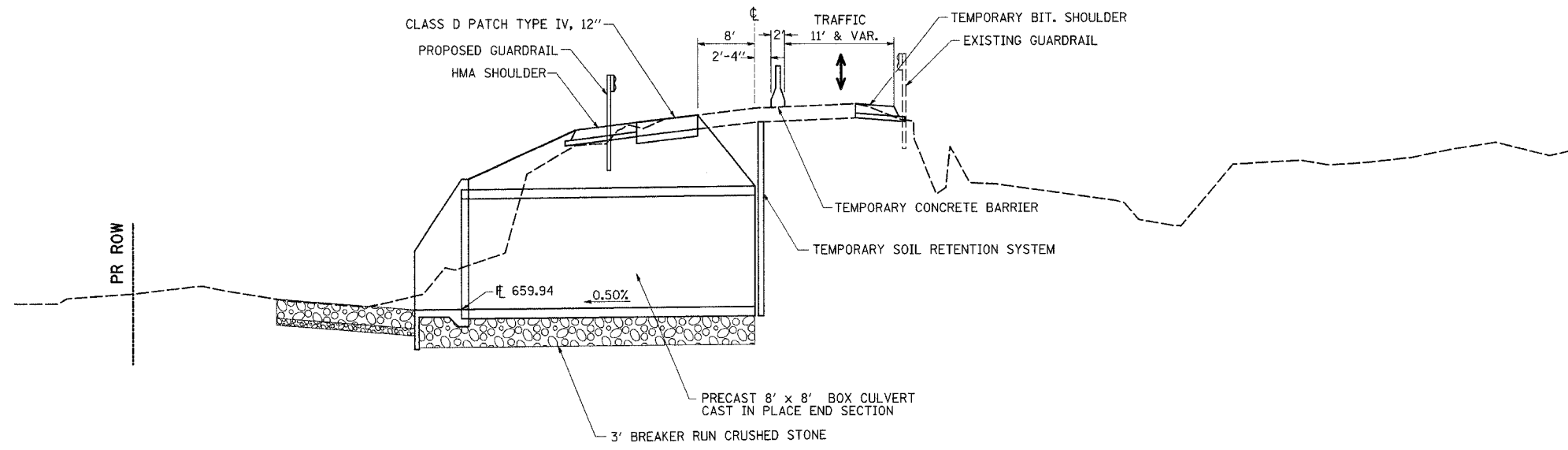
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642	11T	CARROLL	79	10
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FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

STAGING CULVERT TYPICALS

8'x8' Box Culvert @ 40° Skew

STA. 801 + 47

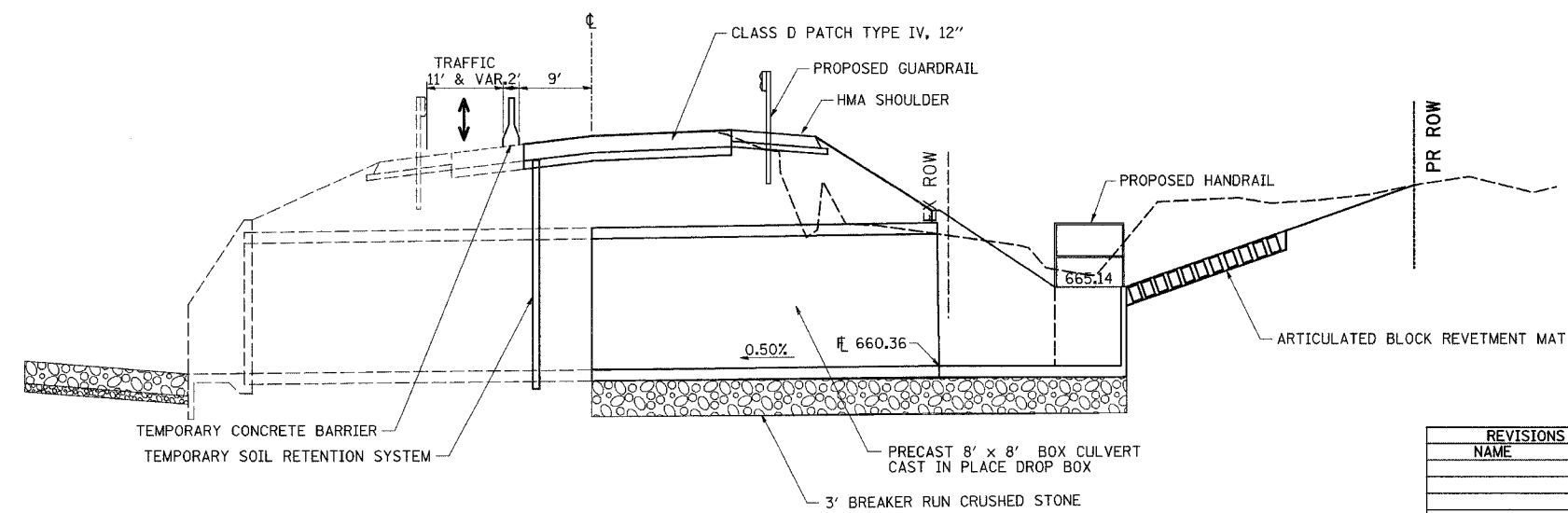
STAGE 2



GENERAL NOTES:

- 1) TRAFFIC CONTROL TO BE SET UP AND PAID FOR ACCORDING TO TRAFFIC CONTROL AND PROTECTION STANDARD 701321.
- 2) THE CONTRACTOR IS RESPONSIBLE FOR MAINTAINING FLOW IN A MANNER ACCEPTABLE TO THE ENGINEER.
- 4) BARRIER WALL AND IMPACT ATTENUATORS SHALL BE SET UP AS SHOWN IN STANDARD 701321

STAGE 3



REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

SCALE: VERT. _____
 HORIZ. _____

DATE _____ DRAWN BY _____
 CHECKED BY _____

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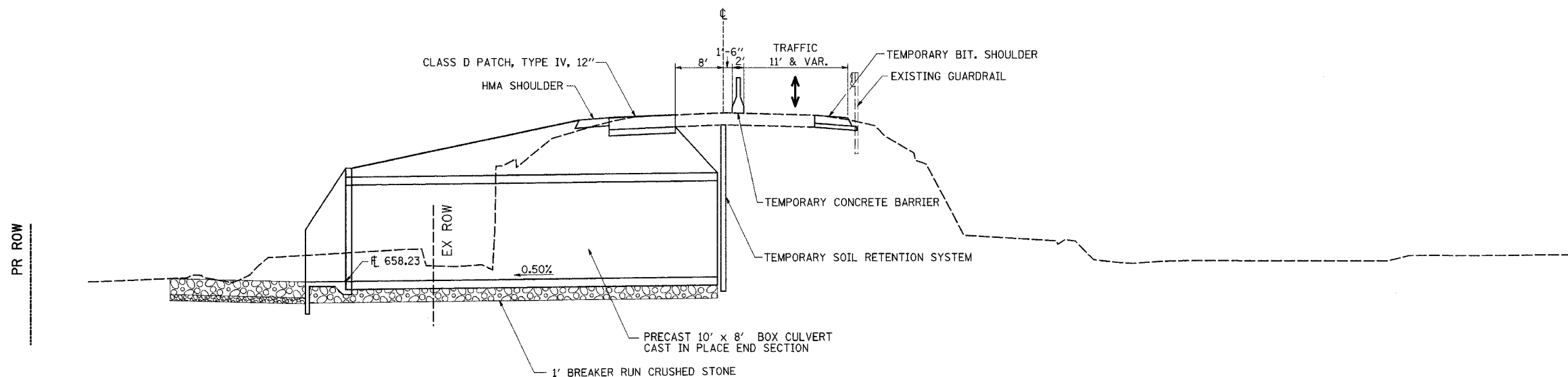
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
642	11T	CARROLL	79	11
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

STAGING CULVERT TYPICALS

10'x8' Box Culvert @ 47° Skew

STA. 805 + 74

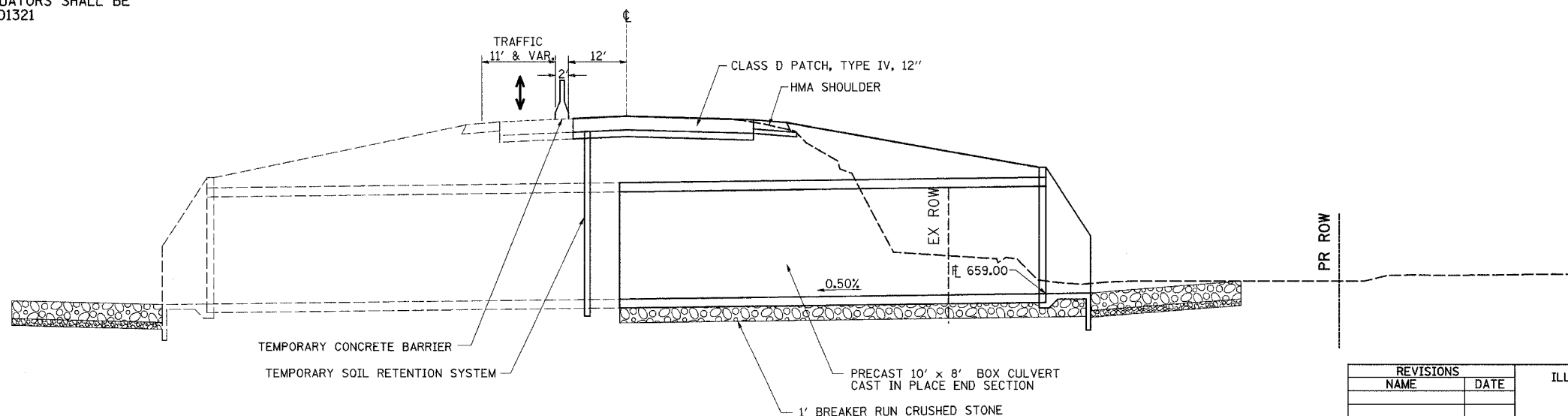
STAGE 2



GENERAL NOTES:

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STAGE 3



REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

SCALE: VERT. / HORIZ.
DATE

DRAWN BY
CHECKED BY

STAGING TYPICAL SECTIONS

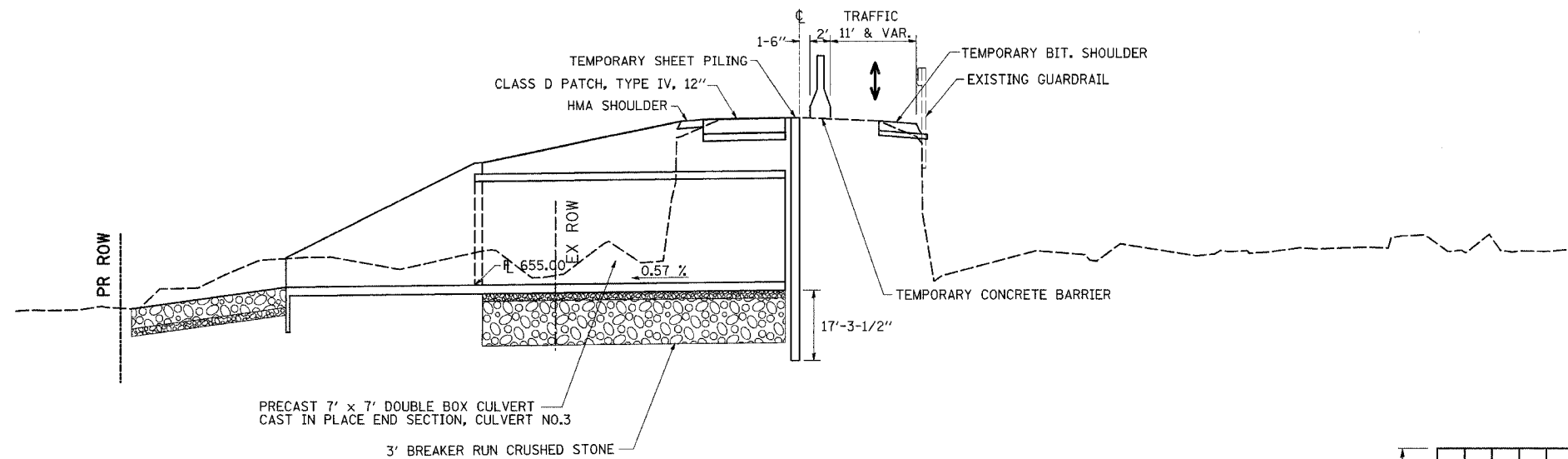
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STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

STAGING CULVERT TYPICALS

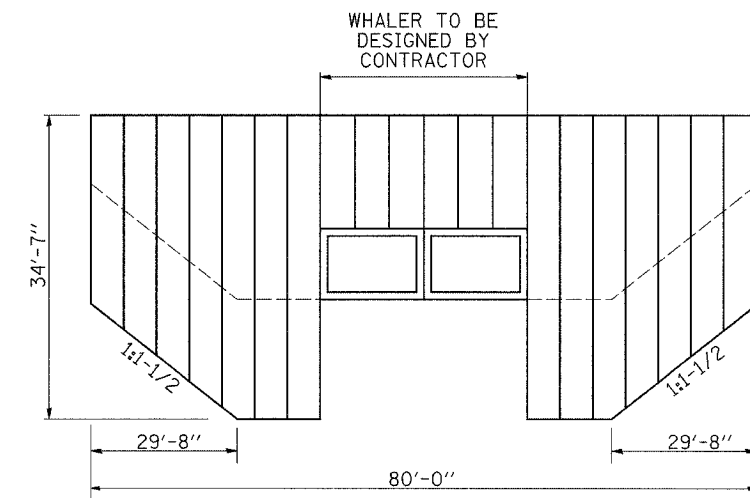
7'x7' Precast Double Box Culvert @ 4° Skew

STA. 813 + 61

STAGE 2



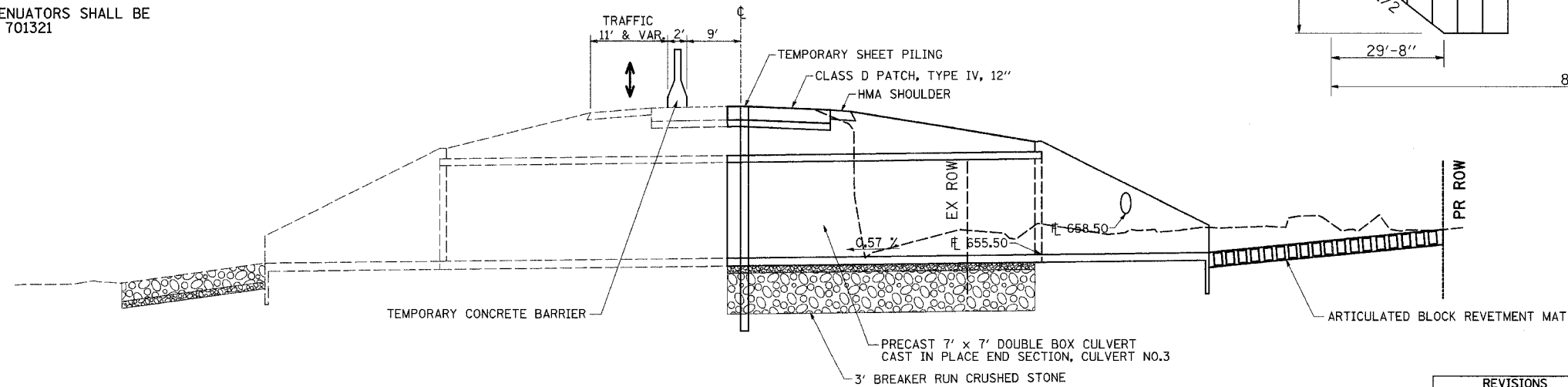
TEMPORARY SHEET PILING



GENERAL NOTES:

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STAGE 3



REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

SCALE: VERT. / HORIZ. / DATE

DRAWN BY / CHECKED BY

STAGING TYPICAL SECTIONS

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F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
642	11T	CARROLL	79	13
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	

SCHEDULE OF QUANTITIES

20100110	TREE REMOVAL (6 TO 15 UNITS DIAMETER)			28000300	TEMPORARY DITCH CHECKS		
	LOCATION	UNITS			LOCATION	EACH	
	STA 800+96.8	36.3 RT	10		STA 799+25	RT	1
	STA 800+03.2	28.0 RT	10		STA 799+50	RT	1
	STA 801+11.4	53.8 RT	12		STA 799+75	RT	1
	STA 801+85.8	22.8 RT	10		STA 800+00	RT	1
	STA 805+28.9	40.0 RT	12		STA 800+25	RT	1
	STA 805+28.9	40.0 RT	9		STA 800+50	RT	1
	STA 805+35.4	30.1 RT	9		STA 800+75	RT	1
	STA 805+35.4	30.1 RT	6		STA 801+75	RT	1
	STA 805+61.4	52.9 RT	7		STA 812+25	LT & RT	2
	STA 805+77.2	37.7 RT	7		STA 812+50	LT	1
	STA 805+77.2	37.7 RT	7		STA 812+75	LT	1
	STA 806+04.9	59.8 LT	13		STA 812+75	LT	1
	STA 806+66.4	44.9 LT	14		STA 813+00	LT	1
	STA 806+66.4	44.9 LT	11		STA 813+25	LT	1
	STA 812+82.0	35.1 LT	7		STA 813+50	LT	1
	STA 813+36.2	31.7 LT	15		STA 814+00	RT	1
	STA 813+48.7	47.0 LT	8		STA 814+50	RT	1
	STA 813+48.7	47.0 LT	8		STA 815+00	RT	1
	STA 813+75.7	36.9 LT	8		STA 826+00	RT	1
	STA 813+87.2	43.7 LT	8		STA 842+50	LT	1
	STA 814+00.7	87.9 LT	7				
	STA 826+45.7	34.1 RT	12				
	TOTAL		210		TOTAL		21
20100210	TREE REMOVAL (OVER 15 UNITS DIAMETER)			28000400	PERIMETER EROSION BARRIER		
	LOCATION	UNITS			LOCATION	FOOT	
	STA 800+37.8	33.7 RT	22		STA 798+60.40	TO 801+63.53	LT
	STA 800+79.6	33.8 RT	20		STA 802+00.02	TO 806+06.05	LT
	STA 801+11.1	51.5 RT	18		STA 802+29.01	TO 802+77.08	RT
	STA 801+06.4	26.2 RT	23		STA 803+17.66	TO 804+79.49	RT
	STA 805+49.2	73.9 RT	43		STA 806+51.14	TO 807+32.72	LT
	STA 805+70.	65.8 RT	36		STA 807+45.91	TO 812+00.44	LT
	STA 805+84.2	44.9 RT	17		STA 814+48.68	TO 816+39.30	LT
	STA 813+36.2	31.7 LT	19		STA 826+00.06	TO 826+61.74	LT
	STA 813+91.2	84.0 LT	16		STA 826+96.38	TO 827+50.34	LT
	STA 913+91.2	84.0 LT	20				
	TOTAL		234		TOTAL		1837
25000210	SEEDING, CLASS 2A			28000500	INLET AND PIPE PROTECTION		
	LOCATION	ACRE			LOCATION	EACH	
	STA 798+18.26	TO 844+00	1.41		STA 801+47	RT	1
	STA 798+18.26	TO 844+00	1.74		STA 805+74	RT	1
	TOTAL		3.15		STA 812+57.41	RT	1
25000310	SEEDING, CLASS 4				STA 813+60	RT	1
	LOCATION	ACRE			STA 826+67	RT	1
	STA 798+18.26	TO 844+00	0.78		STA 842+01.88	RT	1
	STA 798+18.26	TO 844+00	0.06		STA 843+08	RT	1
	TOTAL		0.84		TOTAL		7
25000400	NITROGEN FERTILIZER NUTRIENT			28100107	STONE RIPRAP, CLASS A4		
	LOCATION	POUND			LOCATION	SQ YD	
	STA 798+18.26	TO 844+00	197.1		STA 801+16.46	TO 801+52.17	RT
	STA 798+18.26	TO 844+00	162.0		STA 801+75.48	LT	73
	TOTAL		359.1		STA 805+29.26	RT	111
25000500	PHOSPHORUS FERTILIZER NUTRIENT				STA 805+39.55	TO 806+00	RT
	LOCATION	POUND			STA 806+20.42	LT	89
	STA 798+18.26	TO 844+00	197.1		STA 813+71.49	LT	44
	STA 798+18.26	TO 844+00	162.0		STA 826+72.27	LT	44
	TOTAL		359.1		STA 843+18.03	LT	44
25000600	POTASSIUM FERTILIZER NUTRIENT				TOTAL		512
	LOCATION	POUND		28200200	FILTER FABRIC		
	STA 798+18.26	TO 844+00	197.1		LOCATION	SQ YD	
	STA 798+18.26	TO 844+00	162.0		STA 801+03	RT	74
	TOTAL		359.1		STA 801+16.46	TO 801+52.17	RT
25000750	MOWING				STA 801+75.48	LT	73
	LOCATION	ACRE			STA 805+29.26	RT	111
	STA 798+18.26	TO 844+00	2.19		STA 805+39.55	TO 806+00	RT
	STA 798+18.26	TO 844+00	1.80		STA 806+20.42	LT	89
	TOTAL		3.99		STA 813+47	RT	59
25100115	MULCH METHOD 2				STA 813+71.49	LT	44
	LOCATION	ACRE			STA 826+72.27	LT	44
	STA 798+18.26	TO 844+00	2.19		STA 843+18.03	LT	44
	STA 798+18.27	TO 844+01	1.80		TOTAL		645
	TOTAL		3.99	28500400	ARTICULATED BLOCK REVETMENT MAT		
28000250	TEMPORARY EROSION CONTROL SEEDING				LOCATION	SQ YD	
	LOCATION	POUND			STA 801+03	RT	74
	STA 798+18.26	TO 844+00	875.0		STA 813+47	RT	59
	STA 798+18.27	TO 844+01	721.4		TOTAL		133
	TOTAL		1596.4	44004250	PAVED SHOULDER REMOVAL		
					LOCATION	SQ YD	
					STA 803+63.03	TO 807+11.26	LT
					STA 810+90.60	TO 815+40.04	LT
					TOTAL		441

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F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
642	11T	CARROLL	79	14
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	

SCHEDULE OF QUANTITIES

44201796	CLASS D PATCHES, TYPE IV, 12 INCH LOCATION STA 800+91.65 TO 802+01.24 STA 805+13.91 TO 806+33.96 STA 813+13.00 TO 814+00.00 STA 826+40.82 TO 826+92.66 STA 842+76.81 TO 843+32.38	SQ YD 317 347 251 150 161 TOTAL 1226	54213450	END SECTIONS 15' LOCATION STA 842+06 RT STA 842+52 RT	EACH 1 1 TOTAL 2
44213200	SAW CUTS LOCATION STA 803+63.03 TO 807+11.26 LT STA 810+90.60 TO 815+40.04 LT	EQOI 348.2 449.4 TOTAL 797.7	54213453	END SECTIONS 18' LOCATION STA 812+63 42' RT	EACH 1 TOTAL 1
50100300	REMOVAL OF EXISTING STRUCTURES NO. 1 LOCATION STA 801+47	EACH 1 TOTAL 1	54214521	PRECAST REINFORCED CONCRETE FLARED END SECTIONS, EQUIVALENT ROUND-SIZE 36" LOCATION STA 826+67 LT STA 843+08 LT	EACH 2 2 TOTAL 4
50100400	REMOVAL OF EXISTING STRUCTURES NO. 2 LOCATION STA 805+74	EACH 1 TOTAL 1	63000000	STEEL PLATE BEAM GUARD RAIL, TYPE A LOCATION STA 801+10.00 TO 802+05.00 LT STA 799+25.00 TO 801+50.00 RT	EQOI 175 225 TOTAL 400
50100500	REMOVAL OF EXISTING STRUCTURES NO. 3 LOCATION STA 813+61	EACH 1 TOTAL 1	63100167	TRAFFIC BARRIER TERMINAL TYPE 1, SPECIAL (TANGENT) LOCATION STA 798+75.00 TO 799+25.00 RT STA 800+60.00 TO 801+10.00 LT STA 801+50.00 TO 802+00.00 RT STA 802+85.00 TO 803+35.00 LT	EACH 1 1 1 1 TOTAL 4
50100600	REMOVAL OF EXISTING STRUCTURES NO. 4 LOCATION STA 826+67	EACH 1 TOTAL 1	63200310	GUARDRAIL REMOVAL LOCATION STA 800+31 TO 801+95 RT STA 800+97 TO 802+63 LT STA 804+34 TO 805+88 RT STA 805+37 TO 806+88 LT STA 812+91 TO 814+07 LT STA 813+26 TO 814+27 RT	EQOI 164 166 154 151 116 101 TOTAL 852
50100700	REMOVAL OF EXISTING STRUCTURES NO. 5 LOCATION STA 843+08	EACH 1 TOTAL 1	63500105	DELINEATORS LOCATION STA 798+75 RT STA 800+60 LT STA 801+47 RT CULVERT STA 801+47 LT CULVERT STA 802+00 RT STA 803+35 LT STA 805+00 RT CULVERT STA 805+00 LT CULVERT STA 813+60 RT CULVERT STA 813+60 LT CULVERT STA 826+71 RT CULVERT STA 826+71 LT CULVERT STA 843+08 RT CULVERT STA 843+08 LT CULVERT	EACH 1 1 1 1 1 1 1 1 1 1 1 1 1 1 TOTAL 14
50104600	CONCRETE RETAINING WALL REMOVAL LOCATION STA 806+09 42' LT	EQOI 41 TOTAL 41	66411900	TEMPORARY FENCE LOCATION STA 800+00 TO 802+46 LT STA 842+00 TO 843+51 LT	EQOI 137 162 TOTAL 299
51205200	TEMPORARY SHEET PILING LOCATION STA 813+13.00 TO 814+00.00	SQ FT 4537 TOTAL 4537	66502300	WOVEN WIRE FENCE REMOVAL LOCATION STA 798+37.73 TO 801+95.83 RT STA 800+00 TO 802+50 LT STA 802+26.91 TO 802+81.48 RT STA 802+50 TO 805+00 LT STA 804+00 TO 806+44.53 RT STA 805+00 TO 807+24.69 LT STA 812+00 TO 813+45.14 LT STA 813+24.75 TO 815+50 RT STA 813+45.14 LT STA 813+83.09 LT STA 813+97.17 TO 815+00 LT STA 825+50 TO 828+00 LT STA 825+50 TO 827+50 RT STA 841+50 TO 844+50 RT STA 842+00 TO 844+50 LT STA 843+45 LT	EQOI 358 250 55 250 245 225 142 309 74 78 103 250 200 300 250 51 TOTAL 3140
51500100	NAME PLATES LOCATION STA 801+47 STA 805+74 STA 813+61 STA 826+67 STA 843+08	EACH 1 1 1 1 1 TOTAL 5			
54010707	PRECAST CONCRETE BOX CULVERT 7' X 7' LOCATION STA 813+61	EQOI 176 TOTAL 176			
54010800	PRECAST CONCRETE BOX CULVERT 8' X 8' LOCATION STA 801+47	EQOI 88 TOTAL 88			
54011000	PRECAST CONCRETE BOX CULVERT 10' X 8' LOCATION STA 805+74	EQOI 98 TOTAL 98			
542A5491	PIPE CULVERTS, CLASS A, TYPE 1 EQUIVALENT ROUND-SIZE 36" LOCATION STA 826+67 STA 843+08	EQOI 122 136 TOTAL 258			
542D0220	PIPE CULVERTS, CLASS D, TYPE 1 15' LOCATION STA 842+29.43 18' RT	EQOI 46 TOTAL 46			
542D0223	PIPE CULVERTS, CLASS D, TYPE 1 18' LOCATION STA 812+63 TO 813+45 RT	EQOI 82 TOTAL 82			

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F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
642	11T	CARROLL	79	15
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	

SCHEDULE OF QUANTITIES

66600105 FURNISHING AND ERECTING RIGHT-OF-WAY-MARKERS

LOCATION	EACH
STA 798+50 33' RT	1
STA 800+00 33' LT	1
STA 801+15 85' RT	1
STA 801+85 75' LT	1
STA 802+52.07 33' LT	1
STA 802+75 33' RT	1
STA 804+00 33' RT	1
STA 804+50 45' RT	1
STA 805+00 33' LT	1
STA 805+50 90' RT	1
STA 805+50 45' LT	1
STA 806+00 85' LT	1
STA 806+40 33' RT	1
STA 806+50 85' LT	1
STA 807+00 45' LT	1
STA 807+50 33' LT	1
STA 812+00 33' RT	1
STA 812+00 33' LT	1
STA 813+00 90' RT	1
STA 813+25 90' LT	1
STA 814+00 90' RT	1
STA 814+15 90' LT	1
STA 815+00 33' LT	1
STA 815+50 33' RT	1
STA 825+50 33' RT	1
STA 825+50 33' LT	1
STA 826+50 65' RT	1
STA 826+50 65' LT	1
STA 827+00 65' RT	1
STA 827+00 65' LT	1
STA 827+50 33' RT	1
STA 828+00 33' LT	1
STA 841+50 33' RT	1
STA 842+00 33' LT	1
STA 842+50 75' RT	1
STA 843+00 90' LT	1
STA 843+25 75' RT	1
STA 843+80 80' LT	1
STA 844+50 33' LT	1
STA 844+50 33' RT	1
TOTAL	40

70106700 TEMPORARY RUMBLE STRIP

LOCATION	EACH
STA 780+64 RT STAGE 2 & 3	1
STA 785+64 RT STAGE 2 & 3	1
STA 790+64 RT STAGE 2 & 3	1
STA 801+25.58 RT STAGE 3	1
STA 796+25.58 RT STAGE 3	1
STA 791+25.58 RT STAGE 3	1
STA 803+13.89 RT STAGE 2	1
STA 808+13.89 RT STAGE 2	1
STA 813+13.89 RT STAGE 2	1
STA 816+43.60 LT STAGE 2	1
STA 821+43.60 LT STAGE 2	1
STA 826+43.60 LT STAGE 2	1
STA 817+19.38 LT STAGE 3	1
STA 822+19.38 LT STAGE 3	1
STA 827+19.38 LT STAGE 3	1
STA 824+97.50 LT STAGE 2 & 3	1
STA 829+97.50 LT STAGE 2 & 3	1
STA 834+97.50 LT STAGE 2 & 3	1
TOTAL	18

70300520 PAVEMENT MARKING TAPE TYPE III, 4'

LOCATION	EQOI
STA 797+64.00 TO 810+19.38 LT - STAGE 3	2511
STA 797+64.00 TO 809+43.60 RT - STAGE 2	2397
STA 808+25.58 TO 817+97.50 LT - STAGE 3	1948
STA 810+13.89 TO 817+97.50 RT - STAGE 2	1568
TOTAL	8424

70300570 PAVEMENT MARKING TAPE TYPE III, 24'

LOCATION	FOOT
STA 797+64.00 RT STAGE 2 & 3	11
STA 808+25.58 RT STAGE 3	11
STA 809+43.60 LT STAGE 2	11
STA 810+13.89 RT STAGE 2	11
STA 810+19.38 LT STAGE 3	11
STA 817+97.50 LT STAGE 2 & 3	11
TOTAL	66

70301000 WORK ZONE PAVEMENT MARKING REMOVAL

LOCATION	SQ FT
STA 797+64.00 TO 810+19.38 LT - STAGE 3	837
STA 797+64.00 TO 809+43.60 RT - STAGE 2	799
STA 808+25.58 TO 817+97.50 LT - STAGE 3	650
STA 810+13.89 TO 817+97.50 RT - STAGE 2	523
STA 797+64.00 RT STAGE 2 & 3	22
STA 808+25.58 RT STAGE 3	22
STA 809+43.60 LT STAGE 2	22
STA 810+13.89 RT STAGE 2	22
STA 810+19.38 LT STAGE 3	22
STA 817+97.50 LT STAGE 2 & 3	22
TOTAL	2941

70400100 TEMPORARY CONCRETE BARRIER

LOCATION	EQOI
STA 799+87.61 TO 807+37.33 STAGE 2	750
STA 812+25.18 TO 815+12.32 STAGE 2	288
TOTAL	1038

70400200 RELOCATE TEMPORARY CONCRETE BARRIER

LOCATION	EQOI
STA 799+50.48 TO 802+12.84 RT STAGE 3	263
STA 803+50.38 TO 806+50.00 RT STAGE 3	300
STA 811+37.87 TO 815+87.02 RT STAGE 3	450
TOTAL	1013

78001100 PAINT PAVEMENT MARKING - LINE 4'

LOCATION	EQOI
STA 797+64.00 TO 799+41.00 WHITE EOP	354
STA 797+64.00 TO 799+41.00 YELLOW CL DOUBLE YELLOW	354
STA 799+41.00 TO 809+45.00 WHITE EOP	2088
STA 799+41.01 TO 809+45.00 YELLOW CL SOLID LEFT	1004
STA 799+41.00 TO 809+45.00 YELLOW CL SKIP DASH RT	251
STA 809+45.00 TO 817+97.50 WHITE EOP	1705
STA 809+45.00 TO 817+97.50 YELLOW CL SKIP DASH	214
STA 826+40.82 TO 826+92.66 WHITE EOP	104
STA 826+40.82 TO 826+92.66 YELLOW CL SKIP DASH	13
STA 842+76.81 TO 843+32.38 WHITE EOP	112
STA 842+76.81 TO 843+32.38 YELLOW CL SKIP DASH	14
TOTAL	6133

78100100 RAISED REFLECTIVE PAVEMENT MARKER

LOCATION	EACH
STA 801+47 2-WAY AMBER - 80'	2
STA 805+74 2-WAY AMBER - 80'	2
STA 813+61 2-WAY AMBER - 80'	2
STA 826+67 2-WAY AMBER - 80'	1
STA 843+88 2-WAY AMBER - 80'	1
TOTAL	8

78200410 GUARDRAIL MARKERS, TYPE A

LOCATION	EACH
STA 801+10.00 TO 802+85.00 LT	4
STA 799+25.00 TO 801+50.00 RT	4
TOTAL	8

78201000 TERMINAL MARKER - DIRECT APPLIED

LOCATION	EACH
STA 798+75.00 RT	1
STA 800+60.00 LT	1
STA 802+00.00 RT	1
STA 803+35.00 LT	1
TOTAL	4

78300105 PAVEMENT MARKING REMOVAL

LOCATION	EQOI
STA 797+64.00 TO 799+41.00	708
STA 799+41.00 TO 809+45.00	3263
STA 809+45.00 TO 817+97.50	1919
TOTAL	5890

78300200 RAISED REFLECTIVE PAVEMENT MARKER REMOVAL

LOCATION	EACH
STA 801+47	2
STA 805+74	2
STA 813+61	2
STA 826+67	1
STA 843+88	1
TOTAL	8

X0323988 TEMPORARY SOIL RETENTION SYSTEM

LOCATION	SQ FT
STA 801+47	1035
STA 805+74	1002
TOTAL	2037

Z0030250 IMPACT ATTENUATORS, TEMPORARY (NONREDIRECTIV), TEST LEVEL 3

LOCATION	EACH
STA 799+86.61 LT	1
STA 807+38.33 LT	1
STA 802+12.84 RT NARROW	1
STA 806+49.94 LT NARROW	1
STA 812+24.18 LT	1
STA 815+13.32 LT	1
TOTAL	6

Z0030350 IMPACT ATTENUATORS, RELOCATE (NONREDIRECTIV), TEST LEVEL 3

LOCATION	EACH
STA 799+49.48 RT	1
STA 803+49.38 LT	1
STA 811+36.87 RT	1
STA 815+88.02 RT	1
TOTAL	4

Z0076800 TURF REINFORCEMENT MAT

LOCATION	RT	SQ YD
STA 813+23	RT	29
STA 826+63	RT	81
STA 842+95	RT	109
TOTAL		219

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F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
642	11T	CARROLL	79	16
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	

BITUMINOUS /EARTHWORK SCHEDULE

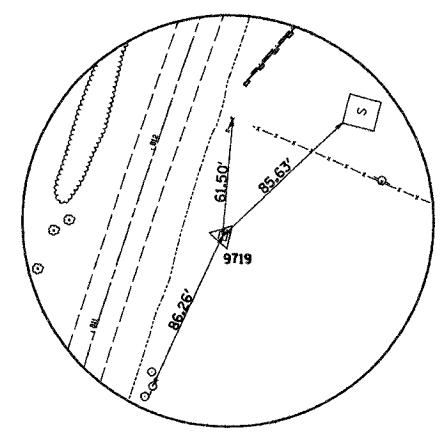
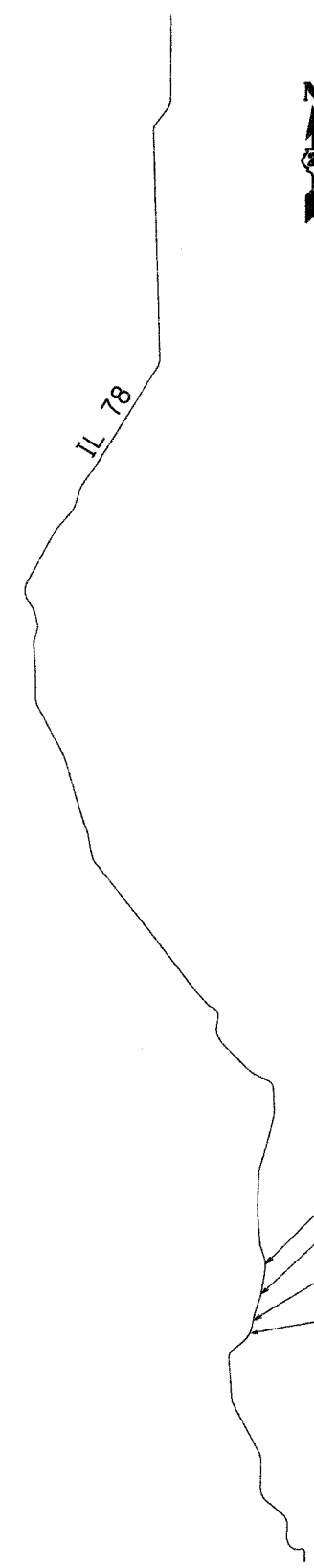
LOCATION	REMARKS	EXISTING SURFACE	WIDTH	AREA	40800050	35101400	20005400	48101200	48203021	40603310	X4810100		
					INCIDENTAL HOT-MIX ASPHALT SURFACING	AGGREGATE BASE COURSE TYPE B	BREAKER RUN CRUSHED STONE	AGGREGATE SHOULDERS TYPE B	HMA SHOULDERS 6"	HMA SURFACE COURSE MIX "C" N50 2'	TEMPORARY SHOULDERS 3'		
				FOOT	SQ FT	TON	TON	INCHES	TON	TON	SQ YD	TON	SQ YD
IL 78													
Lt Sta	798+60 - 816+50				17753							1973	224.7
Rt Sta	798+18 - 816+50				10076							1120	127.5
Lt Sta	798+60 - 816+50				19535		494.4						
Rt Sta	798+18 - 816+50				11914		301.5						
Rt Sta	800+10 - 802+02.71				950		48.1						18.0
Rt Sta	804+10 - 806+10				1037		52.5						19.7
Rt Sta	813+00 - 814+40				531		26.9						10.1
Lt & Rt Sta	825+50 - 827+50				1186					45.0			
Lt & Rt Sta	825+50 - 827+50				950					36.1			
Rt Sta	798 + 50	FE	24	414			21.0						
Sta	801 + 47		26	1472				36	335.3				
Rt Sta	802 + 20	PE	12	517	8.0	26.2							
Rt Sta	802 + 94	PE	24	764	11.9	38.7							
Sta	805 + 74		26	2067				12	156.9				
Rt Sta	806 + 56	PE	17	613	9.5	31.0							
Lt Sta	807 + 35	FE	24	668		33.8							
Sta	813 + 60		26	2944				36	670.6				
Rt Sta	813 + 13	PE	13	1137	17.7	57.6							
Lt Sta	814 + 36	FE	24	1522		77.0							
Sta	826 + 67		26	682		51.8							
Sta	843 + 8		26	738		56.0							
Lt Sta	843 + 69	FE	24	1713		86.7							
				Total	13365	47	1403		1163	81	3092	352	48

LOCATION	20200100	EARTHWORK			20400800
	EARTH EXCAVATION	EARTH EXCAVATION ADJUSTED FOR SHRINKAGE	EMBANKMENT	EARTHWORK BALANCE WASTE (+) SHORTAGE (-)	FURNISHED EXCAVATION
	(CU YD)	(CU YD)	(CU YD)	(CU YD)	(CU YD)
798+18.26 TO 804+00.00	491.7	368.8	201.0	167.8	
804+00.00 TO 810+00.00	448.6	336.5	482.1	-145.7	
810+00.00 TO 816+50.00	722.9	542.2	580.3	-38.1	
798+60.00 TO 804+00.00	72.9	54.7	234.6	-179.9	
804+00.00 TO 810+00.00	75.5	56.6	552.8	-496.2	
810+00.00 TO 816+50.00	372.5	279.4	751.2	-471.8	
803+45.00 TO 804+00.00	0.6	0.5	1.0	-0.6	
804+00.00 TO 807+00.00	75.5	56.6	47.0	9.6	
811+00.00 TO 815+40.00	95.6	71.7	2.6	69.1	
825+50.00 TO 827+50.00	80.0	60.0	170.0	-110.0	
841+50.00 TO 844+00.00	296.1	222.1	118.1	104.0	
TOTALS	2731.9	2048.9	3140.7	-1091.8	1091.8

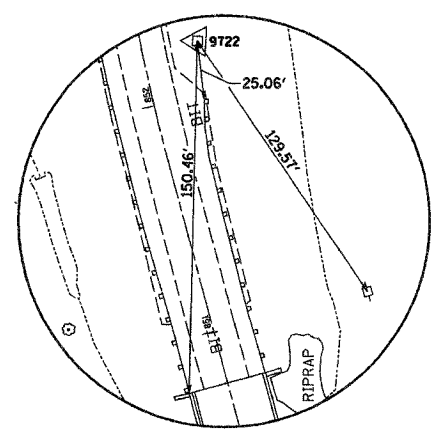
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F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
642	11T	CARROLL	79	17
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

HORIZONTAL & VERTICAL CONTROL



HORIZONTAL CONTROL POINT NO. 9719



HORIZONTAL CONTROL POINT NO. 9722

POINT	NORTH	EAST	ELEVATION	CHAIN	STATION	OFFSET	DESCRIPTION
9719	1994935.9500	2345012.7780	666.1110	EXIL78	811+68.8221	47.7246' RT	PHOTO CONTROL H.&V.
9722	1998887.9960	2345294.5100	643.9850	EXIL78	852+23.1039	24.2226' RT	PHOTO CONTROL H.&V.

POINT	NORTH	EAST	ELEVATION	CHAIN	STATION	OFFSET	DESCRIPTION
428	1993972.6116	2344717.2683	673.1060	EXIL78	801+59.0371	14.4738' LT	CHISELED SQUARE
429	1997199.5191	2345530.5948	650.3690	EXIL78	834+92.1958	20.2718' RT	CHISELED SQUARE

POINT	NORTH	EAST	ELEVATION	CHAIN	STATION	OFFSET	DESCRIPTION
100	1998226.2310	2345564.7470	.0000	EXIL78	845+08.85	77.5846' RT	TRAVERSE STATION
112	1993429.5170	2344494.0020	.0000	EXIL78	795+69.75	15.9392' RT	TRAVERSE STATION
113	1994146.0080	2344788.2530	.0000	EXIL78	803+44.19	16.6612' RT	TRAVERSE STATION
114	1995182.6570	2345017.2330	.0000	EXIL78	814+05.12	25.3674' LT	TRAVERSE STATION
115	1995974.8070	2345312.4190	.0000	EXIL78	822+49.07	14.4592' RT	TRAVERSE STATION
116	1997660.5160	2345595.2790	.0000	EXIL78	839+56.31	13.9131' RT	TRAVERSE STATION

CHAIN	CURVE	PI	CC	PC	PT
IL 78	1200	1200	1201	1202	1203
IL 78	1210	1210	1211	1212	1213
IL 78	1220	1220	1221	1222	1223
IL 78	1230	1230	1231	1232	1233
IL 78	1240	1240	1241	1242	1243
IL 78	1250	1250	1251	1252	1253
IL 78	1260	1260	1261	1262	1263
IL 78	1270	1270	1271	1272	1273
IL 78	1280	1280	1281	1282	1283
IL 78	1290	1290	1291	1292	1293
IL 78	1300	1300	1301	1302	1303
IL 78	1310	1310	1311	1312	1313
IL 78	1320	1320	1321	1322	1323
IL 78	1330	1330	1331	1332	1333
IL 78	1340	1340	1341	1342	1343
IL 78	1350	1350	1351	1352	1353
IL 78	1360	1360	1361	1362	1363
IL 78	1370	1370	1371	1372	1373
IL 78	1380	1380	1381	1382	1383
IL 78	1390	1390	1391	1392	1393
IL 78	1400	1400	1401	1402	1403
IL 78	1410	1410	1411	1412	1413
IL 78	1420	1420	1421	1422	1423
IL 78	1430	1430	1431	1432	1433
IL 78	1440	1440	1441	1442	1443
IL 78	1450	1450	1451	1452	1453

IL 78	1460	1460	1461	1462	1463
IL 78	1470	1470	1471	1472	1473
IL 78	1480	1480	1481	1482	1483
IL 78	1510	1510	1511	1512	1513
IL 78	1530	1530	1531	1532	1533
IL 78	1550	1550	1551	1552	1553
IL 78	1570	1570	1571	1572	1573
IL 78	1590	1590	1591	1592	1593
IL 78	1600	1600	1601	1602	1603
IL 78	1610	1610	1611	1612	1613
IL 78	1620	1620	1621	1622	1623
IL 78	1630	1630	1631	1632	1633
IL 78	1640	1640	1641	1642	1643
IL 78	1660	1660	1661	1662	1663
IL 78	1670	1670	1671	1672	1673
IL 78	1690	1690	1691	1692	1693
IL 78	1700	1700	1701	1702	1703
IL 78	1710	1710	1711	1712	1713
IL 78	1720	1720	1721	1722	1723
IL 78	1730	1730	1731	1732	1733
IL 78	1970	1790	1791	1792	1793
IL 78	1800	1800	1801	1802	1803

CONTROL POINT NO. 9722
 BENCH MARK # 429
 BENCH MARK # 428
 CONTROL POINT NO. 9719

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

HORIZONTAL & VERTICAL CONTROL

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
642	11T	CARROLL	79	18
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	

EXISTING CONTROL

Chain EXIL78 contains:

210 CUR 1200 CUR 1210 CUR 1220 CUR 1230 CUR 1240 CUR 1250 CUR 1260 CUR 1270 CUR 1280 CUR 1290 CUR 1300 CUR 1310 CUR 1320 CUR 1330 CUR 1340 CUR 1350 CUR 1360 - CUR 1370 CUR 1380 CUR 1390 CUR 1400 CUR 1410 CUR 1420 CUR 1430 CUR 1440 CUR 1450 CUR 1460 CUR 1470 CUR 1473 CUR 1480 CUR 269 CUR 270 CUR 1510 CUR 273 CUR 1530 CUR 276 CUR 1550 CUR 279 CUR 1570 CUR 282 CUR 1590 CUR 1600 CUR 1610 CUR 1620 CUR 1630 CUR 1640 CUR 294 CUR 1660 CUR 1670 CUR 1690 CUR 1700 CUR 1710 CUR 1720 CUR 1730 CUR 310 CUR 311 CUR 312 CUR 313 CUR 314 CUR 1790 CUR 1800 CUR 319

Beginning chain EXIL78 description

Point 210 N 1,979,809.49 E 2,347,921.10 Sta 636+75.29

Course from 210 to PC 1200 0° 54' 38.87" Dist 607.43'

Curve Data

Curve 1200

P.I. Station 644+95.92 N 1,980,630.02 E 2,347,934.15
 Delta = 100° 25' 07.55" (LT)
 Degree = 32° 15' 58.14"
 Tangent = 213.20'
 Length = 311.22'
 Radius = 177.57'
 External = 99.89'
 Long Chord = 272.89'
 Mid. Ord. = 63.93'
 P.C. Station 642+82.72 N 1,980,416.85 E 2,347,930.76
 P.T. Station 645+93.94 N 1,980,594.80 E 2,347,723.88
 C.C. N 1,980,419.67 E 2,347,753.21

Course from PT 1200 to PC 1210 260° 29' 31.32" Dist 121.63'

Curve Data

Curve 1210

P.I. Station 652+06.96 N 1,980,493.54 E 2,347,119.28
 Delta = 76° 31' 33.76" (RT)
 Degree = 9° 11' 46.71"
 Tangent = 491.39'
 Length = 832.14'
 Radius = 623.03'
 External = 170.46'
 Long Chord = 771.65'
 Mid. Ord. = 133.84'
 P.C. Station 647+15.57 N 1,980,574.71 E 2,347,603.92
 P.T. Station 655+47.71 N 1,980,945.93 E 2,346,927.42
 C.C. N 1,981,189.18 E 2,347,501.00

Curve Data

Curve 1220

P.I. Station 657+86.62 N 1,981,165.88 E 2,346,834.14
 Delta = 27° 15' 57.92" (RT)
 Degree = 5° 48' 59.00"
 Tangent = 238.92'
 Length = 468.78'
 Radius = 985.07'
 External = 28.56'
 Long Chord = 464.37'
 Mid. Ord. = 27.75'
 P.C. Station 655+47.71 N 1,980,945.93 E 2,346,927.42
 P.T. Station 660+16.49 N 1,981,404.13 E 2,346,851.99
 C.C. N 1,981,330.54 E 2,347,834.31

Course from PT 1220 to PC 1230 4° 17' 03.00" Dist 522.24'

Curve Data

Curve 1230

P.I. Station 670+56.20 N 1,982,440.94 E 2,346,929.66
 Delta = 54° 55' 58.10" (LT)
 Degree = 5° 45' 20.23"
 Tangent = 517.47'
 Length = 954.42'
 Radius = 995.48'
 External = 126.46'
 Long Chord = 918.28'
 Mid. Ord. = 112.21'
 P.C. Station 665+38.73 N 1,981,924.91 E 2,346,891.00
 P.T. Station 674+93.15 N 1,982,769.05 E 2,346,529.51
 C.C. N 1,981,999.28 E 2,345,898.31

Course from PT 1230 to PC 1240 309° 21' 04.91" Dist 1,126.27'

Curve Data

Curve 1240

P.I. Station 691+02.61 N 1,983,789.57 E 2,345,284.96
 Delta = 50° 50' 30.74" (RT)
 Degree = 5° 38' 08.94"
 Tangent = 483.19'
 Length = 902.12'
 Radius = 1,016.64'
 External = 108.98'
 Long Chord = 872.81'
 Mid. Ord. = 98.43'
 P.C. Station 686+19.42 N 1,983,483.19 E 2,345,658.60
 P.T. Station 695+21.55 N 1,984,272.76 E 2,345,286.59
 C.C. N 1,984,269.33 E 2,346,303.22

Course from PT 1240 to PC 1250 0° 11' 35.65" Dist 1,694.17'

Curve Data

Curve 1250

P.I. Station 714+65.34 N 1,986,216.55 E 2,345,293.15
 Delta = 27° 52' 49.05" (LT)
 Degree = 5° 41' 49.87"
 Tangent = 249.63'
 Length = 489.37'
 Radius = 1,005.69'
 External = 30.52'
 Long Chord = 484.56'
 Mid. Ord. = 29.62'
 P.C. Station 712+15.71 N 1,985,966.92 E 2,345,292.30
 P.T. Station 717+05.08 N 1,986,437.59 E 2,345,177.16
 C.C. N 1,985,970.31 E 2,344,286.62

Course from PT 1250 to PC 1260 332° 18' 46.60" Dist 665.62'

Curve Data

Curve 1260

P.I. Station 732+05.39 N 1,987,766.11 E 2,344,480.05
 Delta = 0° 41' 45.93" (RT)
 Degree = 0° 02' 30.11"
 Tangent = 834.69'
 Length = 1,669.36'
 Radius = 137,405.88'
 External = 2.54'
 Long Chord = 1,669.35'
 Mid. Ord. = 2.54'
 P.C. Station 723+70.70 N 1,987,027.00 E 2,344,867.88
 P.T. Station 740+40.06 N 1,988,509.89 E 2,344,101.23
 C.C. N 2,050,871.54 E 2,466,540.60

Course from PT 1260 to PC 1270 333° 00' 32.54" Dist 1,012.31'

Curve Data

Curve 1270

P.I. Station 752+59.63 N 1,989,596.62 E 2,343,547.72
 Delta = 23° 09' 34.64" (RT)
 Degree = 5° 39' 51.95"
 Tangent = 207.26'
 Length = 408.86'
 Radius = 1,011.50'
 External = 21.02'
 Long Chord = 406.08'
 Mid. Ord. = 20.59'
 P.C. Station 750+52.37 N 1,989,411.94 E 2,343,641.79
 P.T. Station 754+61.23 N 1,989,803.42 E 2,343,533.88
 C.C. N 1,989,871.01 E 2,344,543.12

Course from PT 1270 to PC 1280 356° 10' 07.17" Dist 2,365.63'

Curve Data

Curve 1280

P.I. Station 781+08.39 N 1,992,444.66 E 2,343,356.99
 Delta = 53° 58' 25.53" (RT)
 Degree = 10° 21' 50.91"
 Tangent = 281.52'
 Length = 520.77'
 Radius = 552.83'
 External = 67.55'
 Long Chord = 501.73'
 Mid. Ord. = 60.20'
 P.C. Station 778+26.87 N 1,992,163.76 E 2,343,375.80
 P.T. Station 783+47.64 N 1,992,625.08 E 2,343,573.10
 C.C. N 1,992,200.70 E 2,343,927.40

Course from PT 1280 to PC 1290 50° 08' 32.70" Dist 867.21'

Curve Data

Curve 1290

P.I. Station 795+19.02 N 1,993,375.79 E 2,344,472.29
 Delta = 23° 28' 20.91" (LT)
 Degree = 3° 54' 48.12"
 Tangent = 304.17'
 Length = 599.80'
 Radius = 1,464.10'
 External = 31.26'
 Long Chord = 595.62'
 Mid. Ord. = 30.61'
 P.C. Station 792+14.85 N 1,993,180.85 E 2,344,238.80
 P.T. Station 798+14.65 N 1,993,647.60 E 2,344,608.82
 C.C. N 1,994,304.76 E 2,343,300.49

Curve Data

Curve 1300

P.I. Station 800+34.58 N 1,993,844.12 E 2,344,707.53
 Delta = 14° 45' 23.09" (LT)
 Degree = 3° 22' 24.80"
 Tangent = 219.92'
 Length = 437.41'
 Radius = 1,698.38'
 External = 14.18'
 Long Chord = 436.21'
 Mid. Ord. = 14.06'
 P.C. Station 798+14.65 N 1,993,647.60 E 2,344,608.82
 P.T. Station 802+52.07 N 1,994,059.31 E 2,344,752.93
 C.C. N 1,994,409.91 E 2,343,091.14

Course from PT 1300 to PC 1310 11° 54' 48.70" Dist 374.93'

Curve Data

Curve 1310

P.I. Station 809+57.77 N 1,994,749.81 E 2,344,898.61
 Delta = 6° 39' 06.58" (RT)
 Degree = 1° 00' 23.89"
 Tangent = 330.77'
 Length = 660.80'
 Radius = 5,691.80'
 External = 9.60'
 Long Chord = 660.43'
 Mid. Ord. = 9.59'
 P.C. Station 806+27.00 N 1,994,426.16 E 2,344,830.33
 P.T. Station 812+87.80 N 1,995,063.37 E 2,345,003.93
 C.C. N 1,993,251.18 E 2,350,399.53

Course from PT 1310 to PC 1320 18° 33' 55.28" Dist 697.54'

REVISIONS	
NAME	DATE

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

HORIZONTAL & VERTICAL CONTROL

PLOT DATE = Wed Oct 18 15:23:36 2006
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F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
642	11T	CARROLL	79	19
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	

EXISTING CONTROL

Curve Data

Curve 1320
 P.I. Station 822+10.76 N 1,995,938.30 E 2,345,297.79
 Delta = 9° 00' 45.07" (LT)
 Degree = 2° 00' 11.46"
 Tangent = 225.42'
 Length = 449.91'
 Radius = 2,860.24'
 External = 8.87'
 Long Chord = 449.45'
 Mid. Ord. = 8.84'
 P.C. Station 819+85.34 N 1,995,724.61 E 2,345,226.02
 P.T. Station 824+35.25 N 1,996,160.59 E 2,345,335.20
 C.C. N 1,996,635.27 E 2,342,514.62

Course from PT 1320 to PC 1330 9° 33' 10.21" Dist 1,400.35'

Curve Data

Curve 1330
 P.I. Station 841+19.93 N 1,997,821.91 E 2,345,614.78
 Delta = 27° 35' 07.80" (LT)
 Degree = 4° 56' 48.82"
 Tangent = 284.33'
 Length = 557.63'
 Radius = 1,158.22'
 External = 34.39'
 Long Chord = 552.26'
 Mid. Ord. = 33.40'
 P.C. Station 838+35.60 N 1,997,541.52 E 2,345,567.59
 P.T. Station 843+93.23 N 1,998,092.28 E 2,345,526.76
 C.C. N 1,997,733.74 E 2,344,425.44

Course from PT 1330 to PC 1340 341° 58' 02.42" Dist 778.05'

Curve Data

Curve 1340
 P.I. Station 852+86.73 N 1,998,941.88 E 2,345,250.17
 Delta = 13° 19' 51.20" (RT)
 Degree = 5° 48' 00.49"
 Tangent = 115.44'
 Length = 229.84'
 Radius = 987.84'
 External = 6.72'
 Long Chord = 229.32'
 Mid. Ord. = 6.68'
 P.C. Station 851+71.29 N 1,998,832.11 E 2,345,285.91
 P.T. Station 854+01.12 N 1,999,056.93 E 2,345,240.71
 C.C. N 1,999,137.90 E 2,346,225.22

Course from PT 1340 to PC 1350 355° 17' 53.61" Dist 1,541.18'

Curve Data

Curve 1350
 P.I. Station 872+88.07 N 2,000,937.53 E 2,345,086.04
 Delta = 6° 37' 40.04" (RT)
 Degree = 0° 57' 34.13"
 Tangent = 345.77'
 Length = 690.77'
 Radius = 5,971.54'
 External = 10.00'
 Long Chord = 690.38'
 Mid. Ord. = 9.99'
 P.C. Station 869+42.30 N 2,000,592.93 E 2,345,114.38
 P.T. Station 876+33.07 N 2,001,283.11 E 2,345,097.66
 C.C. N 2,001,082.41 E 2,351,065.83

Course from PT 1350 to PC 1360 1° 55' 33.65" Dist 1,821.91'

Curve Data

Curve 1360
 P.I. Station 897+26.11 N 2,003,374.97 E 2,345,168.01
 Delta = 14° 51' 25.54" (RT)
 Degree = 2° 45' 19.09"
 Tangent = 271.13'
 Length = 539.22'
 Radius = 2,079.47'
 External = 17.60'
 Long Chord = 537.71'
 Mid. Ord. = 17.45'
 P.C. Station 894+54.98 N 2,003,103.99 E 2,345,158.89
 P.T. Station 899+94.20 N 2,003,634.55 E 2,345,246.29
 C.C. N 2,003,034.10 E 2,347,237.19

Course from PT 1360 to PC 1370 16° 46' 59.19" Dist 1,772.18'

Curve Data

Curve 1370
 P.I. Station 919+74.51 N 2,005,530.51 E 2,345,818.11
 Delta = 4° 09' 38.31" (LT)
 Degree = 0° 59' 59.89"
 Tangent = 208.13'
 Length = 416.08'
 Radius = 5,729.76'
 External = 3.78'
 Long Chord = 415.99'
 Mid. Ord. = 3.78'
 P.C. Station 917+66.38 N 2,005,331.24 E 2,345,758.01
 P.T. Station 921+82.46 N 2,005,733.61 E 2,345,863.59
 C.C. N 2,006,985.71 E 2,340,272.32

Course from PT 1370 to PC 1380 12° 37' 20.88" Dist 1,014.60'

Curve Data

Curve 1380
 P.I. Station 933+98.42 N 2,006,920.18 E 2,346,129.31
 Delta = 15° 55' 55.77" (LT)
 Degree = 3° 58' 54.58"
 Tangent = 201.36'
 Length = 400.12'
 Radius = 1,438.93'
 External = 14.02'
 Long Chord = 398.83'
 Mid. Ord. = 13.89'
 P.C. Station 931+97.06 N 2,006,723.69 E 2,346,085.31
 P.T. Station 935+97.18 N 2,007,121.20 E 2,346,117.68
 C.C. N 2,007,038.13 E 2,344,681.15

Course from PT 1380 to PC 1390 356° 41' 25.10" Dist 1,247.12'

Curve Data

Curve 1390
 P.I. Station 951+46.10 N 2,008,667.54 E 2,346,028.26
 Delta = 60° 14' 21.97" (LT)
 Degree = 11° 00' 49.56"
 Tangent = 301.80'
 Length = 546.95'
 Radius = 520.22'
 External = 81.21'
 Long Chord = 522.10'
 Mid. Ord. = 70.24'
 P.C. Station 948+44.30 N 2,008,366.25 E 2,346,045.68
 P.T. Station 953+91.25 N 2,008,801.97 E 2,345,758.05
 C.C. N 2,008,336.21 E 2,345,526.33

Course from PT 1390 to PC 1400 296° 27' 03.13" Dist 870.17'

Curve Data

Curve 1400
 P.I. Station 965+98.35 N 2,009,339.65 E 2,344,677.32
 Delta = 18° 31' 05.87" (RT)
 Degree = 2° 46' 20.16"
 Tangent = 336.93'
 Length = 667.98'
 Radius = 2,066.75'
 External = 27.28'
 Long Chord = 665.08'
 Mid. Ord. = 26.93'
 P.C. Station 962+61.42 N 2,009,189.57 E 2,344,978.98
 P.T. Station 969+29.40 N 2,009,577.77 E 2,344,438.95
 C.C. N 2,011,039.96 E 2,345,899.57

Course from PT 1400 to PC 1410 314° 58' 09.00" Dist 1,861.80'

Curve Data

Curve 1410
 P.I. Station 991+07.25 N 2,011,116.91 E 2,342,898.15
 Delta = 17° 57' 26.37" (RT)
 Degree = 2° 51' 51.79"
 Tangent = 316.05'
 Length = 626.92'
 Radius = 2,000.28'
 External = 24.81'
 Long Chord = 624.35'
 Mid. Ord. = 24.51'
 P.C. Station 987+91.20 N 2,010,893.55 E 2,343,121.75
 P.T. Station 994+18.12 N 2,011,398.33 E 2,342,754.30
 C.C. N 2,012,308.72 E 2,344,535.40

Curve Data

Curve 1420
 P.I. Station 997+70.74 N 2,011,712.31 E 2,342,593.81
 Delta = 35° 37' 32.77" (RT)
 Degree = 5° 13' 15.03"
 Tangent = 352.62'
 Length = 682.38'
 Radius = 1,097.44'
 External = 55.26'
 Long Chord = 671.44'
 Mid. Ord. = 52.61'
 P.C. Station 994+18.12 N 2,011,398.33 E 2,342,754.30
 P.T. Station 1001+00.50 N 2,012,061.02 E 2,342,646.25
 C.C. N 2,011,897.81 E 2,343,731.49

Course from PT 1420 to PC 1430 8° 33' 08.14" Dist 498.34'

Curve Data

Curve 1430
 P.I. Station 1007+10.24 N 2,012,663.98 E 2,342,736.93
 Delta = 9° 57' 08.01" (LT)
 Degree = 4° 28' 40.42"
 Tangent = 111.41'
 Length = 222.25'
 Radius = 1,279.53'
 External = 4.84'
 Long Chord = 221.97'
 Mid. Ord. = 4.82'
 P.C. Station 1005+98.84 N 2,012,553.82 E 2,342,720.36
 P.T. Station 1008+21.09 N 2,012,775.36 E 2,342,734.20
 C.C. N 2,012,744.10 E 2,341,455.06

REVISIONS	
NAME	DATE

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

HORIZONTAL & VERTICAL CONTROL

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
642	11T	CARROLL	79	20
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	

EXISTING CONTROL

Curve Data

Curve 1440
 P.I. Station 1009+97.92 N 2,012,952.14 E 2,342,729.88
 Delta = 41° 39' 49.66" (LT)
 Degree = 12° 19' 42.54"
 Tangent = 176.84'
 Length = 337.95'
 Radius = 464.74'
 External = 32.51'
 Long Chord = 330.55'
 Mid. Ord. = 30.38'
 P.C. Station 1008+21.09 N 2,012,775.36 E 2,342,734.20
 P.T. Station 1011+59.04 N 2,013,081.33 E 2,342,609.14
 C.C. N 2,012,764.00 E 2,342,269.60

Curve Data

Curve 1450
 P.I. Station 1012+72.78 N 2,013,164.44 E 2,342,531.47
 Delta = 21° 12' 19.38" (LT)
 Degree = 9° 25' 45.43"
 Tangent = 113.75'
 Length = 224.89'
 Radius = 607.64'
 External = 10.55'
 Long Chord = 223.61'
 Mid. Ord. = 10.37'
 P.C. Station 1011+59.04 N 2,013,081.33 E 2,342,609.14
 P.T. Station 1013+83.92 N 2,013,213.82 E 2,342,429.00
 C.C. N 2,012,666.43 E 2,342,165.20

Course from PT 1450 to PC 1460 295° 43' 51.09" Dist 159.28'

Curve Data

Curve 1460
 P.I. Station 1016+85.92 N 2,013,344.93 E 2,342,156.95
 Delta = 23° 11' 27.50" (RT)
 Degree = 8° 14' 14.67"
 Tangent = 142.72'
 Length = 281.53'
 Radius = 695.56'
 External = 14.49'
 Long Chord = 279.61'
 Mid. Ord. = 14.20'
 P.C. Station 1015+43.20 N 2,013,282.97 E 2,342,285.52
 P.T. Station 1018+24.73 N 2,013,452.51 E 2,342,063.17
 C.C. N 2,013,909.55 E 2,342,587.49

Course from PT 1460 to PC 1470 318° 55' 18.59" Dist 991.01'

Curve Data

Curve 1470
 P.I. Station 1029+53.42 N 2,014,303.33 E 2,341,321.53
 Delta = 1° 37' 14.24" (RT)
 Degree = 0° 35' 18.97"
 Tangent = 137.68'
 Length = 275.33'
 Radius = 9,734.22'
 External = 0.97'
 Long Chord = 275.33'
 Mid. Ord. = 0.97'
 P.C. Station 1028+15.75 N 2,014,199.55 E 2,341,411.99
 P.T. Station 1030+91.08 N 2,014,409.63 E 2,341,234.03
 C.C. N 2,020,595.79 E 2,348,749.78

Equation: Sta 1030+91.08 (BK) = Sta 0+00.00 (AH) -----
 End Region 1
 Begin Region 2

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

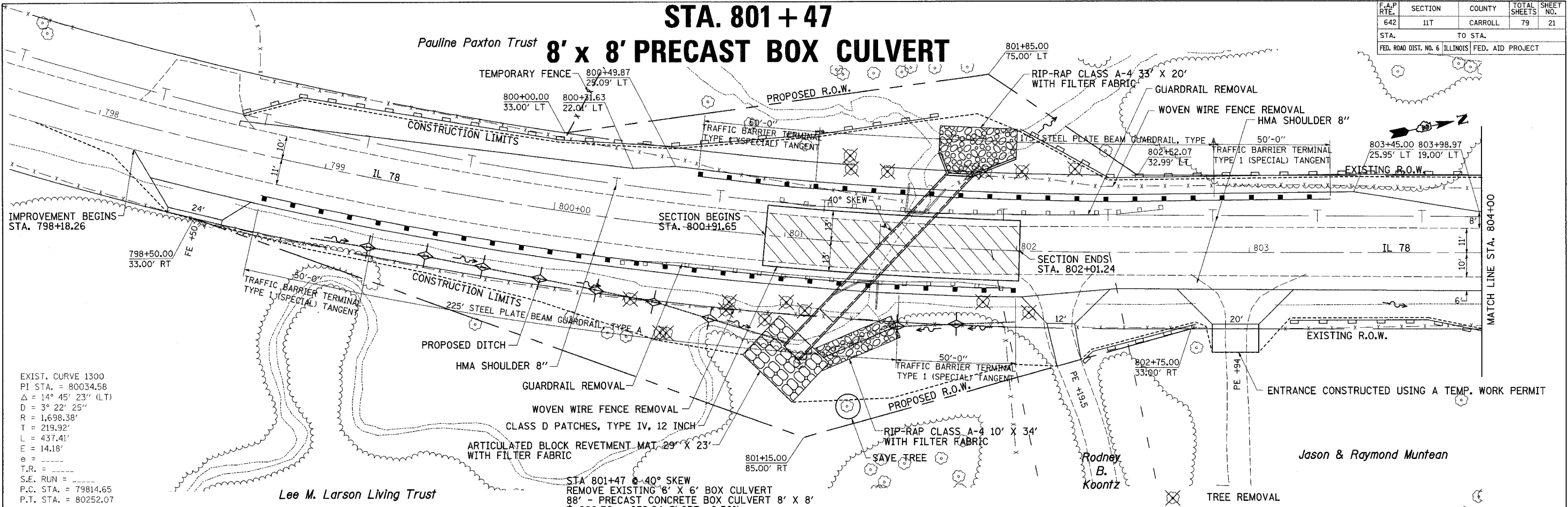
HORIZONTAL & VERTICAL CONTROL

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STA. 801+47

8' x 8' PRECAST BOX CULVERT

Pauline Paxton Trust



IMPROVEMENT BEGINS
 STA. 798+18.26

SECTION BEGINS
 STA. 800+91.65

SECTION ENDS
 STA. 802+01.24

EXIST. CURVE 1300
 PI STA. = 80034.58
 $\Delta = 14^\circ 45' 23''$ (LT)
 $D = 3^\circ 22' 25''$
 $R = 1,698.38'$
 $T = 219.92'$
 $L = 437.41'$
 $E = 14.18'$
 $e =$
 $T.R. =$
 S.E. RUN =
 P.C. STA. = 79814.65
 P.T. STA. = 80252.07

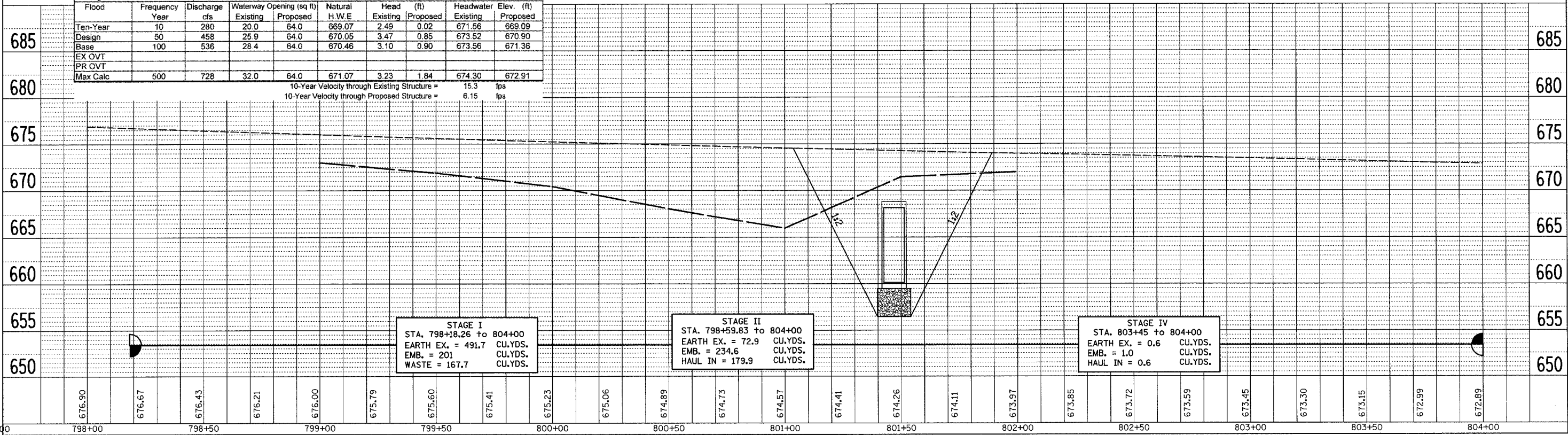
Lee M. Larson Living Trust

STA 801+47 @ 40° SKEW
 REMOVE EXISTING 6' X 6' BOX CULVERT
 88' - PRECAST CONCRETE BOX CULVERT 8' X 8'
 $H = 660.36 - 659.94$ SLOPE = 0.50%
 42' LT - 42' RT
 1 EA. CAST IN PLACE END SECTION LT
 DROP BOX NO.1 RT WITH PIPE HANDRAIL

- TREE REMOVAL
- TEMPORARY DITCH CHECK
- PERIMETER EROSION BARRIER

Flood Year	Frequency	Discharge cfs	Waterway Opening (sq ft)		Natural H.W.E	Head (ft)		Headwater Elev. (ft)	
			Existing	Proposed		Existing	Proposed	Existing	Proposed
Ten-Year	10	280	20.0	64.0	669.07	2.49	0.02	671.56	669.09
Design	50	458	25.9	64.0	670.05	3.47	0.85	673.52	670.90
Base	100	536	28.4	64.0	670.46	3.10	0.90	673.56	671.36
EX OVT									
PR OVT									
Max Calc	500	728	32.0	64.0	671.07	3.23	1.84	674.30	672.91

Existing Low Grade Elevation: 673.97 ft @ Sta 802+00
 Proposed Low Grade Elevation: 674.16 ft @ Sta 802+00
 10-Year Velocity through Existing Structure = 15.3 fps
 10-Year Velocity through Proposed Structure = 6.15 fps



STAGE I
 STA. 798+18.26 to 804+00
 EARTH EX. = 491.7 CU.YDS.
 EMB. = 201 CU.YDS.
 WASTE = 167.7 CU.YDS.

STAGE II
 STA. 798+59.83 to 804+00
 EARTH EX. = 72.9 CU.YDS.
 EMB. = 234.6 CU.YDS.
 HAUL IN = 179.9 CU.YDS.

STAGE IV
 STA. 803+45 to 804+00
 EARTH EX. = 0.6 CU.YDS.
 EMB. = 1.0 CU.YDS.
 HAUL IN = 0.6 CU.YDS.

PLAN
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 CHECKED BY: DATE:
 DESIGNED BY: DATE:
 DRAWN BY: DATE:
 NOTE BOOK NO. FILE NAME

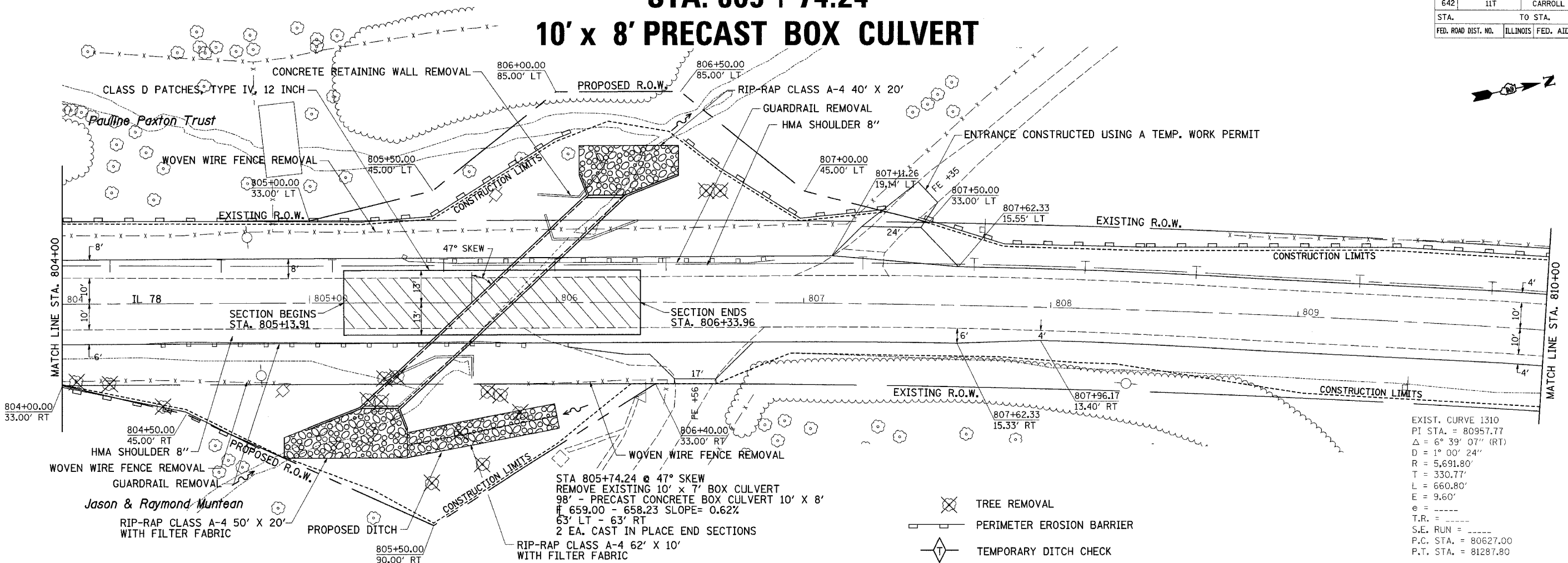
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DATE: Nov. 02.22 1341326 2887
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 PLOT SCALE: 28.8888 / IN
 PLOTTER NAME: pchrmndr

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
642	11T	CARROLL	79	22
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	

STA. 805 + 74.24

10' x 8' PRECAST BOX CULVERT



EXIST. CURVE 1310
 PI STA. = 80957.77
 $\Delta = 6^\circ 39' 07''$ (RT)
 $D = 1^\circ 00' 24''$
 $R = 5,691.80'$
 $T = 330.77'$
 $L = 660.80'$
 $E = 9.60'$
 $e =$
 $T.R. =$
 $S.E. RUN =$
 $P.C. STA. = 80627.00$
 $P.T. STA. = 81287.80$

STA 805+74.24 @ 47° SKEW
 REMOVE EXISTING 10' x 7' BOX CULVERT
 # 659.00 - 658.23 SLOPE = 0.62%
 63' LT - 63' RT
 2 EA. CAST IN PLACE END SECTIONS
 RIP-RAP CLASS A-4 62' X 10'
 WITH FILTER FABRIC

- TREE REMOVAL
- PERIMETER EROSION BARRIER
- TEMPORARY DITCH CHECK

PLAN

DATE	
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PROFILE

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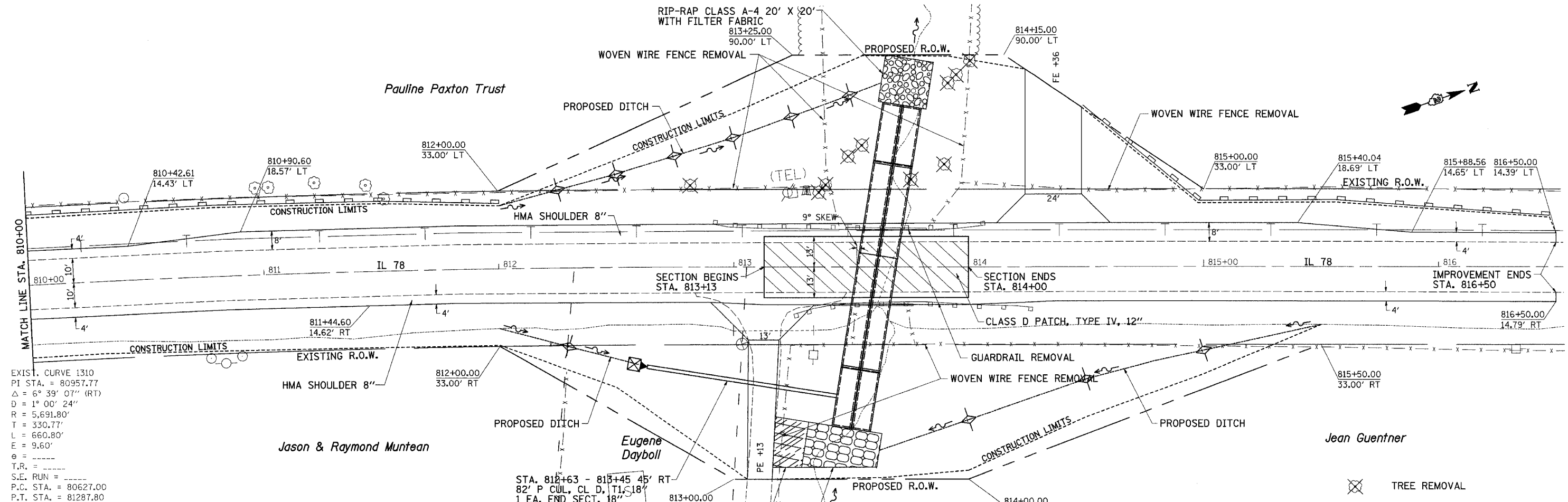
ELEVATION	Existing Low Grade Elevation: 672.21 ft @ Sta 805+80										ELEVATION															
	Proposed Low Grade Elevation: 672.41 ft @ Sta 805+80																									
685	Flood	Frequency	Discharge	Waterway Opening (sq ft)		Natural H.W.E.	Head	Headwater Elev. (ft)		685																
	Year	Year	cfs	Existing	Proposed	Existing	Existing	Proposed	Existing		Proposed															
680	Ten-Year	10	380	60.1	55.6	664.56	0.00	0.00	664.56	664.56	680															
675	Design	50	607	70.0	69.2	665.92	1.29	1.01	667.21	666.93	675															
	Base	100	704	70.0	75.3	666.53	2.09	1.55	668.62	668.08																
670	Overlapping Ex.										670															
665	Max. Calc.	500	940	70.0	80.0	667.41	4.25	3.40	671.66	670.81	665															
10-Year Velocity through Existing Structure = 6.15 fps 10-Year Velocity through Proposed Structure = 5.89 fps																										
660											660															
655	<table border="1"> <tr> <th>STAGE I</th> <th>STAGE II</th> <th>STAGE IV</th> </tr> <tr> <td>STA. 804+00 to 810+00</td> <td>STA. 804+00 to 810+00</td> <td>STA. 803+45 to 807+00</td> </tr> <tr> <td>EARTH EX. = 448.6 CU.YDS.</td> <td>EARTH EX. = 75.5 CU.YDS.</td> <td>EARTH EX. = 75.5 CU.YDS.</td> </tr> <tr> <td>EMB. = 482.1 CU.YDS.</td> <td>EMB. = 552.8 CU.YDS.</td> <td>EMB. = 47 CU.YDS.</td> </tr> <tr> <td>HAUL IN = 145.6 CU.YDS.</td> <td>HAUL IN = 496.2 CU.YDS.</td> <td>WASTE = 9.7 CU.YDS.</td> </tr> </table>										STAGE I	STAGE II	STAGE IV	STA. 804+00 to 810+00	STA. 804+00 to 810+00	STA. 803+45 to 807+00	EARTH EX. = 448.6 CU.YDS.	EARTH EX. = 75.5 CU.YDS.	EARTH EX. = 75.5 CU.YDS.	EMB. = 482.1 CU.YDS.	EMB. = 552.8 CU.YDS.	EMB. = 47 CU.YDS.	HAUL IN = 145.6 CU.YDS.	HAUL IN = 496.2 CU.YDS.	WASTE = 9.7 CU.YDS.	655
STAGE I	STAGE II	STAGE IV																								
STA. 804+00 to 810+00	STA. 804+00 to 810+00	STA. 803+45 to 807+00																								
EARTH EX. = 448.6 CU.YDS.	EARTH EX. = 75.5 CU.YDS.	EARTH EX. = 75.5 CU.YDS.																								
EMB. = 482.1 CU.YDS.	EMB. = 552.8 CU.YDS.	EMB. = 47 CU.YDS.																								
HAUL IN = 145.6 CU.YDS.	HAUL IN = 496.2 CU.YDS.	WASTE = 9.7 CU.YDS.																								
650											650															

PLOT DATE = Wed Oct 19 15:24:47 2007
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F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
642	11T	CARROLL	79	23
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

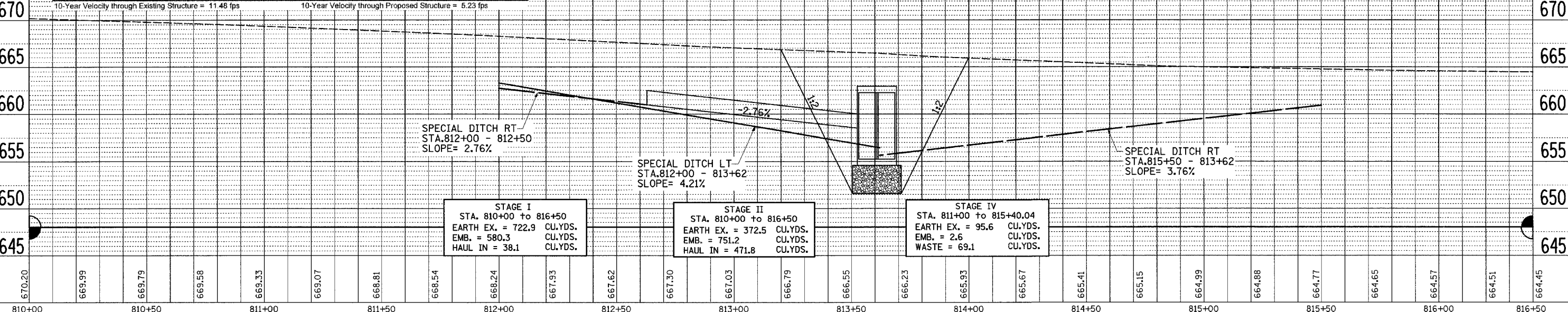
STA. 813+61

7' x 7' DOUBLE CELL PRECAST BOX CULVERT



EXIST. CURVE 1310
 PI STA. = 80957.77
 $\Delta = 6^\circ 39' 07''$ (RT)
 $D = 1^\circ 00' 24''$
 $R = 5,691.80'$
 $T = 330.77'$
 $L = 660.80'$
 $E = 9.60'$
 $\theta =$
 $T.R. =$
 $S.E. RUN =$
 $P.C. STA. = 80627.00$
 $P.T. STA. = 81287.80$

Drainage Area = 0.36 sq mi		Existing Low Grade Elevation: 664.29 ft @ Sta 817+00		Proposed Low Grade Elevation: 664.48 ft @ Sta 817+00	
Flood Frequency Year	Discharge cfs	Waterway Opening (sq ft)	Natural H.W.E	Head (ft)	Headwater Elev. (ft)
Ten-Year	10	334	56.9	74.9	661.74
Design	50	544	60.5	78.5	662.04
Base	100	636	61.1	80.0	662.17
Overtopping Ex	68	585	61.1	80.0	662.09
Max. Calc.	500	860	83.8	86.2	662.48
10-Year Velocity through Existing Structure = 11.48 fps			10-Year Velocity through Proposed Structure = 5.23 fps		



- TREE REMOVAL
- PERIMETER EROSION BARRIER
- TEMPORARY DITCH CHECK
- INLET & PIPE PROTECTION

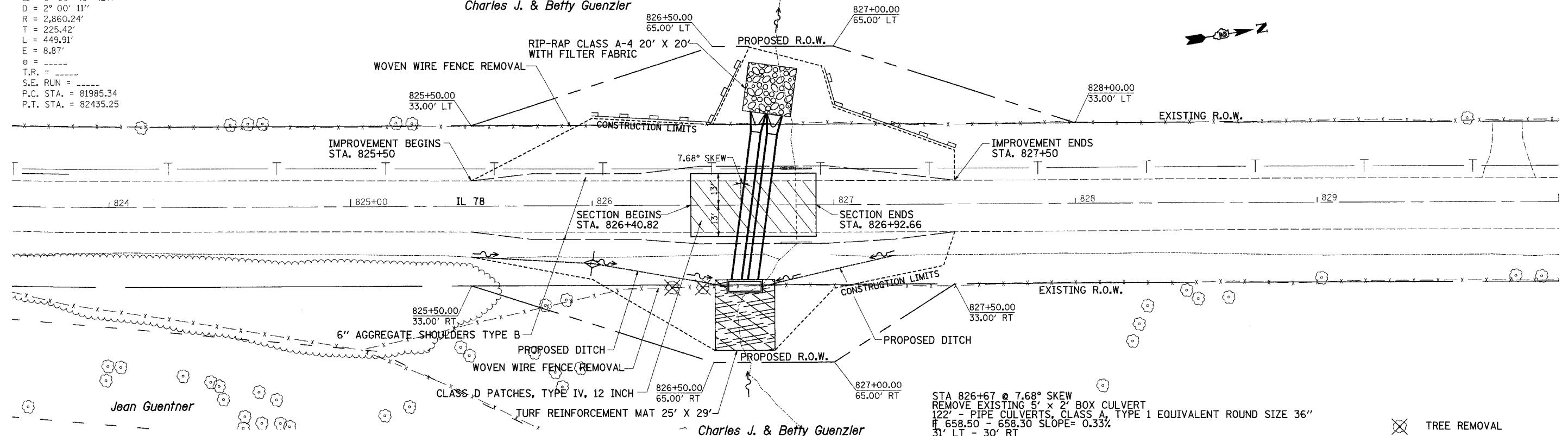
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
642	11T	CARROLL	79	24
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	

STA. 826 + 67.23

DOUBLE CELL EQRS 36" PRECAST CULVERT PIPES

Charles J. & Betty Guenzler

EXIST. CURVE 1320
 PI STA. = 82210.76
 $\Delta = 9^\circ 00' 45''$ (LT)
 $D = 2^\circ 00' 11''$
 $R = 2,860.24'$
 $T = 225.42'$
 $L = 449.91'$
 $E = 8.87'$
 $e =$
 $T.R. =$
 $S.E. RUN =$
 P.C. STA. = 81985.34
 P.T. STA. = 82435.25

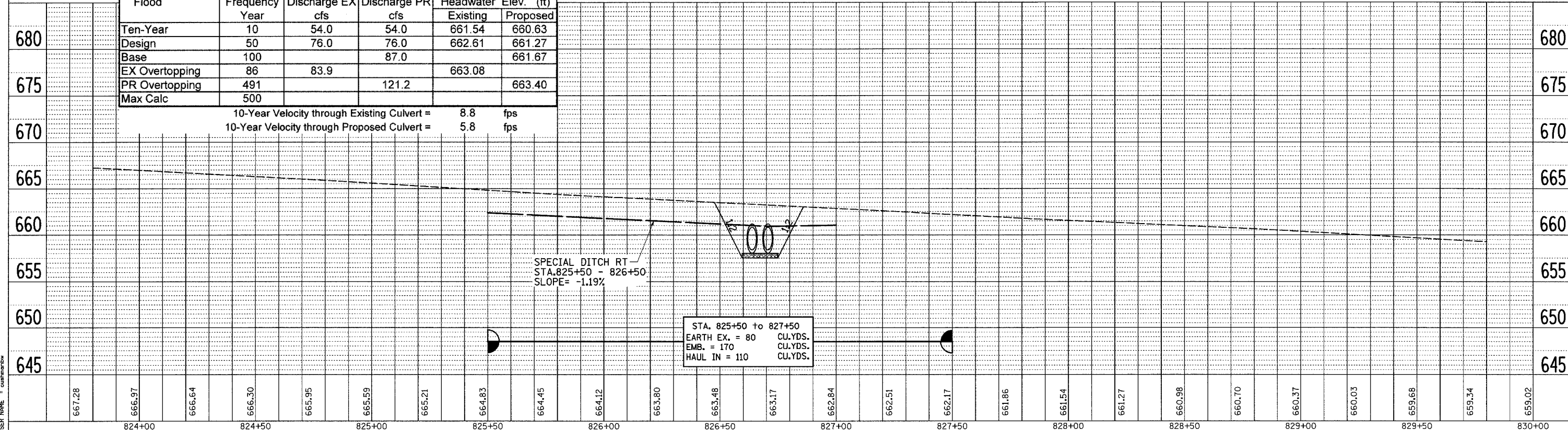


STA 826+67 @ 7.68° SKEW
 REMOVE EXISTING 5' x 2' BOX CULVERT
 122' - PIPE CULVERTS, CLASS A, TYPE 1 EQUIVALENT ROUND SIZE 36"
 $H = 658.50 - 658.30$ SLOPE = 0.33%
 $31' LT - 30' RT$
 2 EA. PRECAST FLARED END SECTIONS EQUIVALENT ROUND SIZE 36"
 DROP BOX NO. 2 RT WITH PIPE HANDRAIL

- TREE REMOVAL
- PERIMETER EROSION BARRIER
- TEMPORARY DITCH CHECK

Drainage Area EX =	21.6	Acres	Drainage Area PR =	21.6	Acres
Existing Low Grade Elevation:	663.09	ft. @	826+83.		
Proposed Low Grade Elevation:	663.39	ft. @	826+76.		
Flood	Frequency	Discharge EX	Discharge PR	Headwater Elev. (ft)	
	Year	cfs	cfs	Existing	Proposed
Ten-Year	10	54.0	54.0	661.54	660.63
Design	50	76.0	76.0	662.61	661.27
Base	100		87.0		661.67
EX Overtopping	86	83.9		663.08	
PR Overtopping	491		121.2		663.40
Max Calc	500				

10-Year Velocity through Existing Culvert = 8.8 fps
 10-Year Velocity through Proposed Culvert = 5.8 fps



STA. 825+50 to 827+50
 EARTH EX. = 80 CU.YDS.
 EMB. = 170 CU.YDS.
 HAUL IN = 110 CU.YDS.

PLAN

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GRADES	
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NOTATION	
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FILE NAME	
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PLOT DATE = Wed Oct 19 15:24:48 2007
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F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
642	11T	CARROLL	79	25

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

STA. 843+08

Charles J. & Betty Guenzler

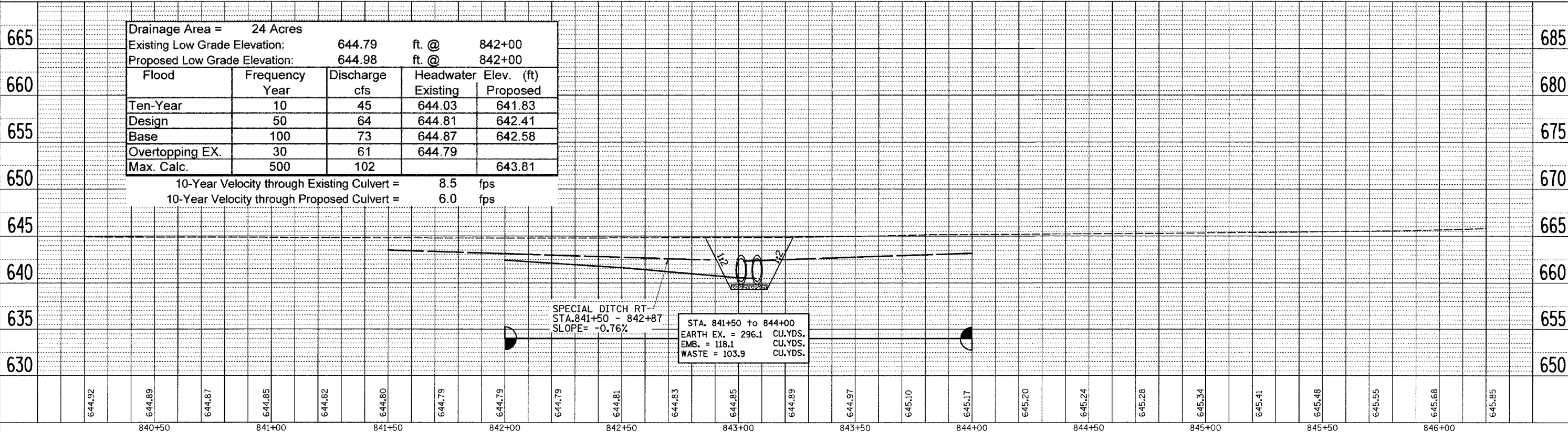
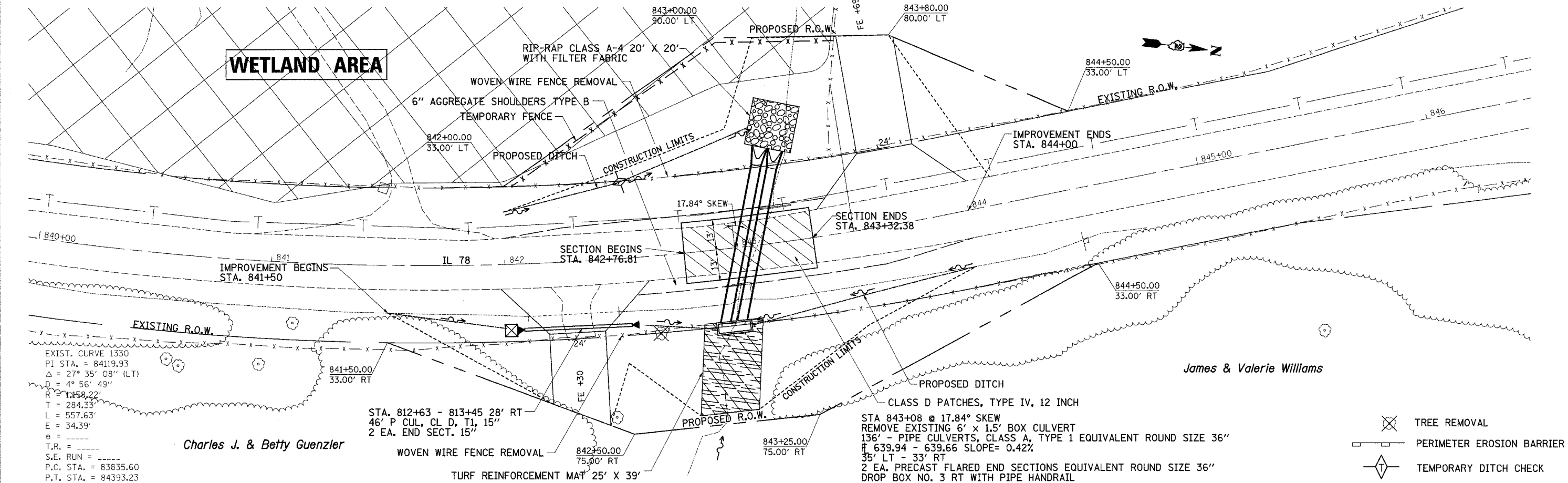
Thomas A. Janco

DOUBLE CELL EQRS 36" PRECAST CULVERT PIPES

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 PLAN: _____
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 NO. _____
 CHECKED: _____
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 FILE NAME: _____

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 PROFILE: _____
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 NOTATIONS: _____
 NO. _____

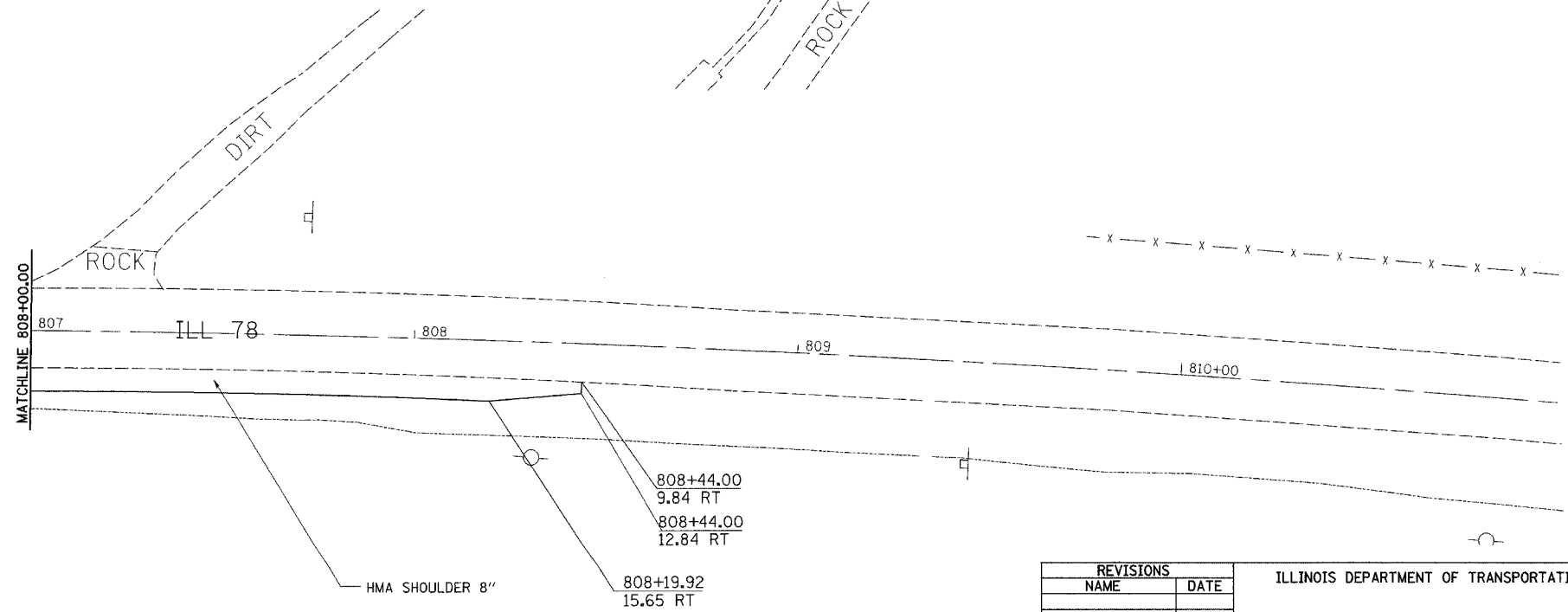
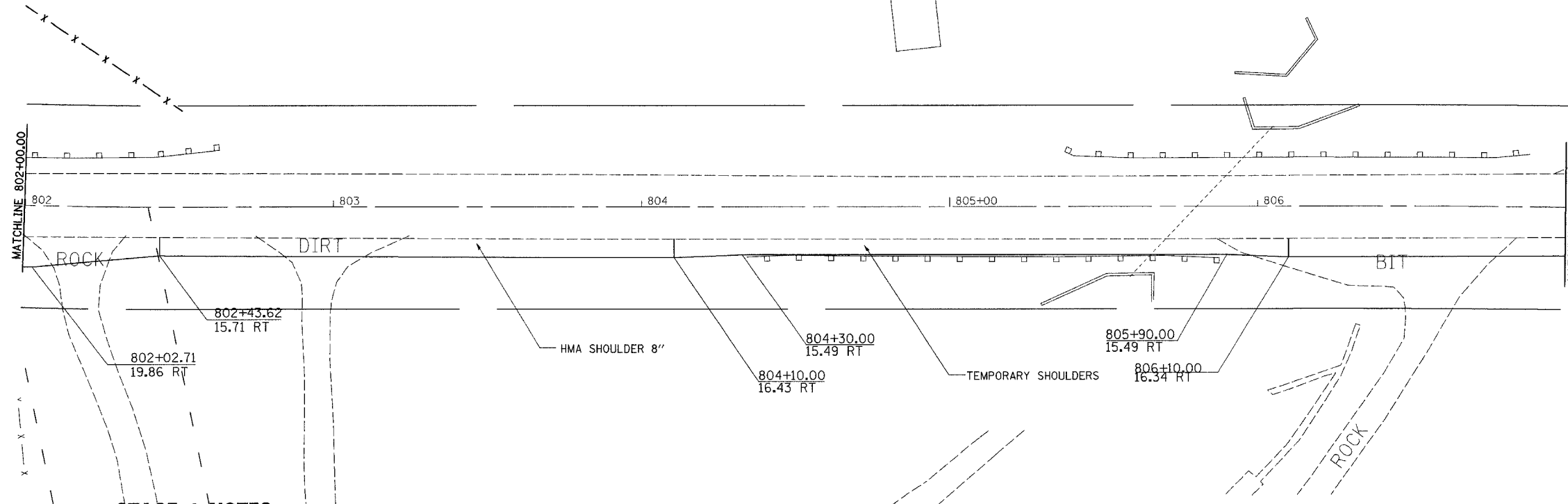
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F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
642	11T	CARROLL	79	27
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	

STAGE 1

STA 801+47 & 805+74.24



STAGE 1 NOTES

1. USE STANDARD 701306 FOR SHOULDER WORK.
2. PLACE HMA SHOULDERS FROM RT STA. 798+18.26 TO RT STA. 800+10 AT FULL WIDTH.
3. AT RT STA. 800+10 TO RT STA. 800+30 TAPER TEMPORARY SHOULDERS TO BE WITHIN EXISTING GUARDRAIL WIDTH.
4. AT RT STA. 802+02.71 TO RT STA. 802+43.62 TAPER TEMPORARY SHOULDERS BACK TO FULL WIDTH.
5. PLACE HMA SHOULDERS FROM RT STA. 802+43.62 TO RT STA. 804+10 AT FULL WIDTH.
6. AT RT STA. 804+10 TO RT STA. 804+30 TAPER TEMPORARY SHOULDERS TO BE WITHIN EXISTING GUARDRAIL.
7. AT RT STA. 805+90 TO RT STA. 806+10 TAPER TEMPORARY SHOULDERS BACK TO FULL WIDTH.
8. PLACE HMA SHOULDERS FROM RT STA. 806+10 TO RT STA. 808+19.92 AT FULL WIDTH.
9. GRADE AND SHAPE FINAL DITCHES IN AREAS OF FULL WIDTH SHOULDERS.

	= WORK ZONE
	= TYPE III BARRICADE WITH FLASHING LIGHTS
	= SIGN
	= BARRICADE, OR DRUM WITH STEADY BURNING LIGHTS
	= INDUCTION LOOP DETECTOR
	= TRAFFIC SIGNAL
	= TEMPORARY RUMBLE STRIPS

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

SCALE: VERT.
HORIZ.
DATE

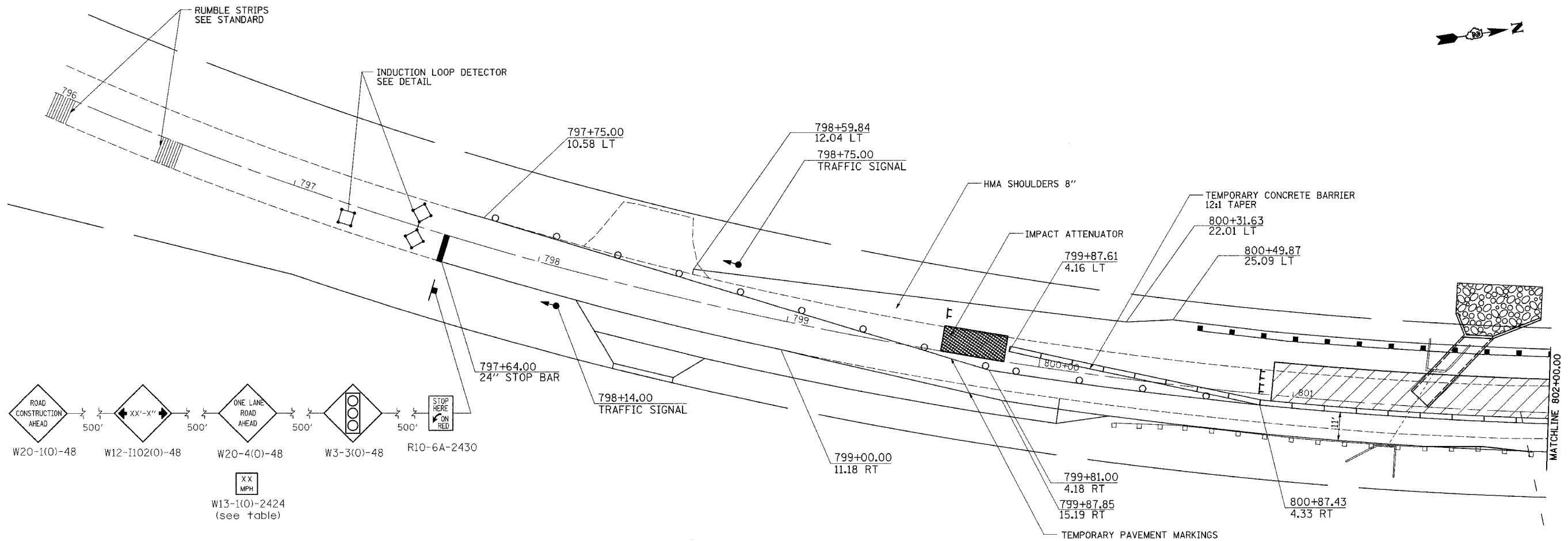
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CHECKED BY

STAGING PLAN SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
642	11T	CARROLL	79	28
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	

STAGE 2

STA 801+47 & 805+74.24



STAGE 2 NOTES

1. USE STANDARD 701321 FOR CULVERT WORK.
2. CONSTRUCT DOWNSTREAM SECTIONS OF CULVERTS INCLUDING END SECTIONS, RIP-RAP, AND EARTH WORK.
3. PLACE HMA SHOULDERS AT FULL WIDTH AND PROPOSED GUARD RAIL IN PREPARATION FOR STAGE 3.

	= WORK ZONE
	= TYPE III BARRICADE WITH FLASHING LIGHTS
	= SIGN
	= BARRICADE, OR DRUM WITH STEADY BURNING LIGHTS
	= INDUCTION LOOP DETECTOR
	= TRAFFIC SIGNAL
	= TEMPORARY RUMBLE STRIPS

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

SCALE: VERT. _____
 HORIZ. _____

DATE _____ DRAWN BY _____
 CHECKED BY _____

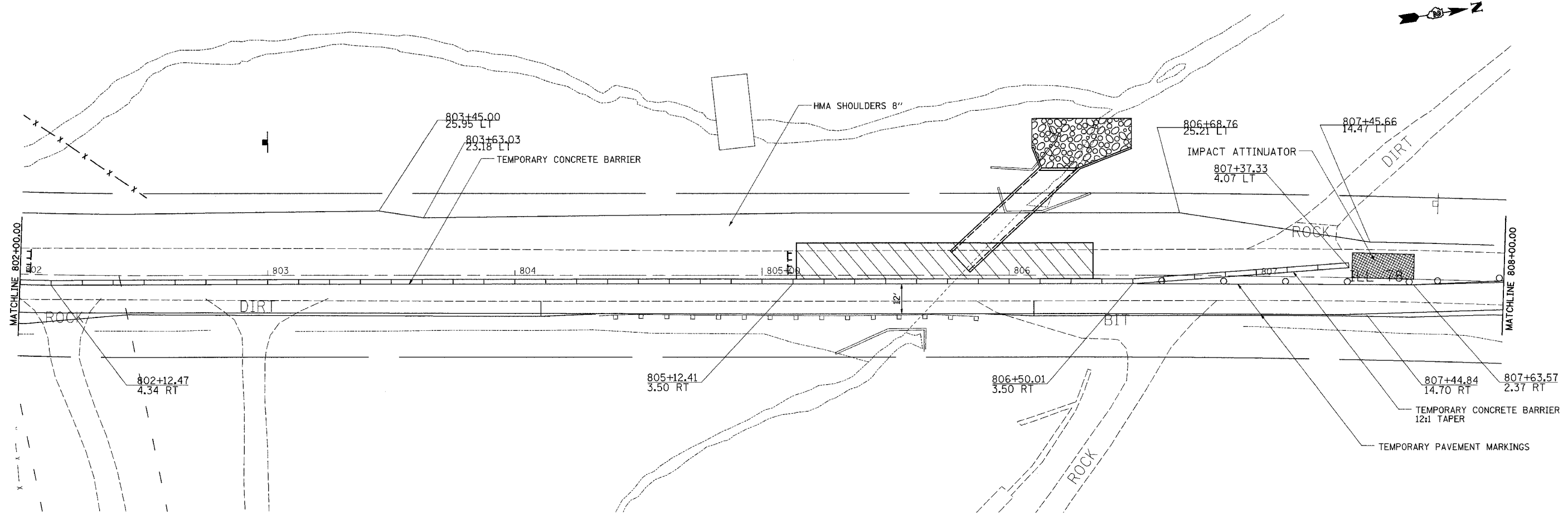
STAGING PLAN SHEETS

PLOT DATE = Wed Oct 19 15:26:58 2007
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F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
642	11T	CARROLL	79	29
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	

STAGE 2

STA 801+47 & 805+74.24



STAGE 2 NOTES

1. USE STANDARD 701321 FOR CULVERT WORK.
2. CONSTRUCT DOWNSTREAM SECTIONS OF CULVERTS INCLUDING END SECTIONS, RIP-RAP, AND EARTH WORK.
3. PLACE HMA SHOULDERS AT FULL WIDTH AND PROPOSED GUARD RAIL IN PREPARATION FOR STAGE 3.

	= WORK ZONE
	= TYPE III BARRICADE WITH FLASHING LIGHTS
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	= BARRICADE, OR DRUM WITH STEADY BURNING LIGHTS
	= INDUCTION LOOP DETECTOR
	= TRAFFIC SIGNAL
	= TEMPORARY RUMBLE STRIPS

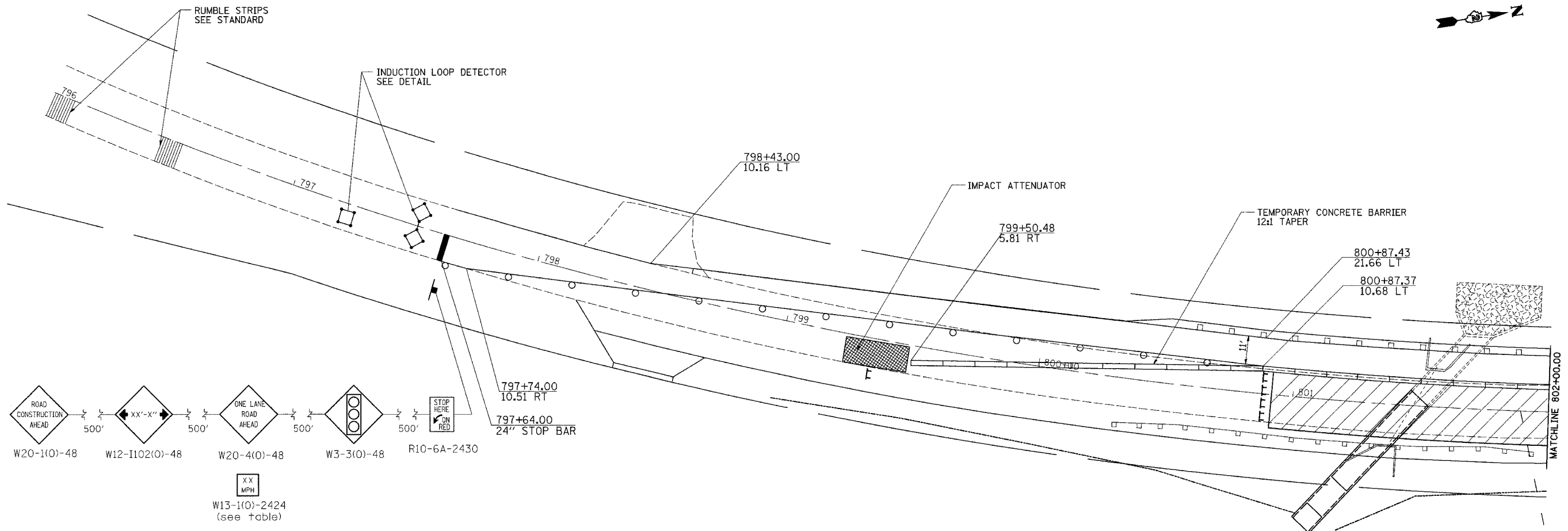
REVISIONS		ILLINOIS DEPARTMENT OF TRANSPORTATION
NAME	DATE	
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F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
642	11T	CARROLL	79	31
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	

STAGE 3

STA 801+47 & 805+74.24



STAGE 3 NOTES

1. USE STANDARD 701321 FOR CULVERT WORK.
2. CONSTRUCT UPSTREAM SECTIONS OF CULVERTS INCLUDING END SECTIONS, RIP-RAP, AND EARTH WORK.
3. COMPLETE CONSTRUCTION OF FULL WIDTH HMA SHOULDERS IN AREAS OF GUARDRAIL REMOVAL.
4. PLACE PROPOSED GUARD RAIL.

	= WORK ZONE
	= TYPE III BARRICADE WITH FLASHING LIGHTS
	= SIGN
	= BARRICADE, OR DRUM WITH STEADY BURNING LIGHTS
	= INDUCTION LOOP DETECTOR
	= TRAFFIC SIGNAL
	= TEMPORARY RUMBLE STRIPS

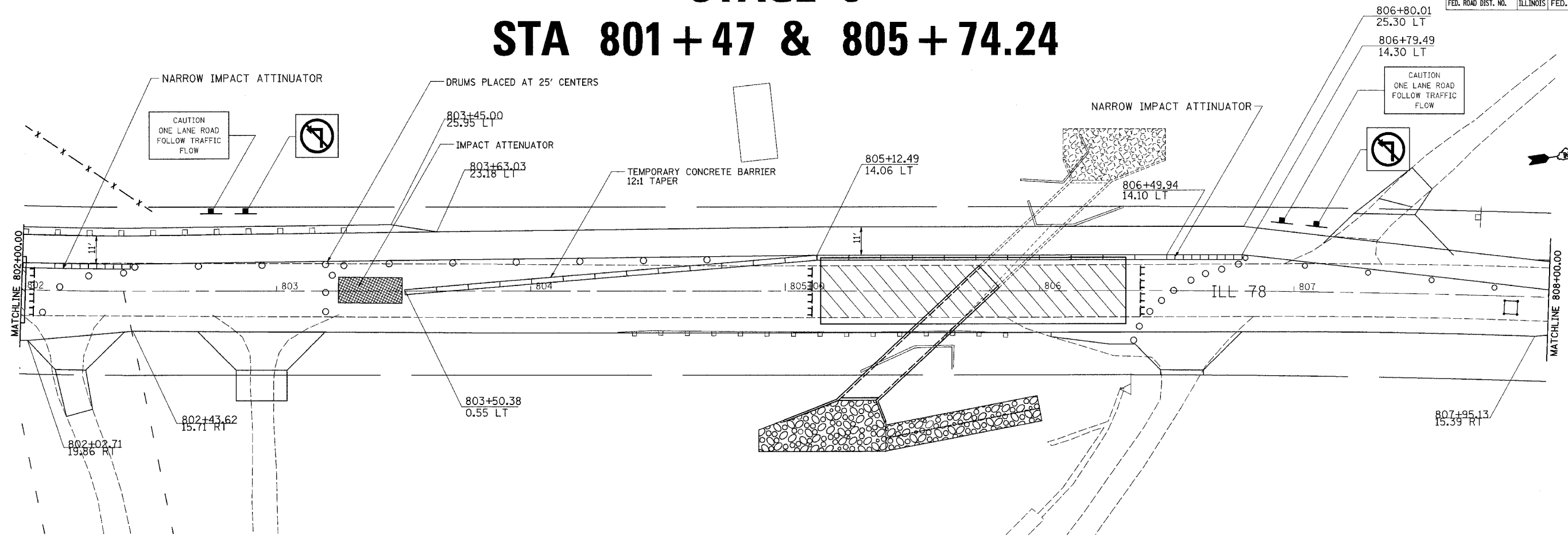
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NAME	DATE	
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DRAWN BY		CHECKED BY

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F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
642	11T	CARROLL	79	32
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	

STAGE 3

STA 801+47 & 805+74.24



STAGE 3 NOTES

1. USE STANDARD 701321 FOR CULVERT WORK.
2. CONSTRUCT UPSTREAM SECTIONS OF CULVERTS INCLUDING END SECTIONS, RIP-RAP, AND EARTH WORK.
3. COMPLETE CONSTRUCTION OF FULL WIDTH HMA SHOULDERS IN AREAS OF GUARDRAIL REMOVAL.
4. PLACE PROPOSED GUARD RAIL.

	= WORK ZONE
	= TYPE III BARRICADE WITH FLASHING LIGHTS
	= SIGN
	= BARRICADE, OR DRUM WITH STEADY BURNING LIGHTS
	= INDUCTION LOOP DETECTOR
	= TRAFFIC SIGNAL
	= TEMPORARY RUMBLE STRIPS

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

SCALE: VERT. _____
 HORIZ. _____

DATE _____

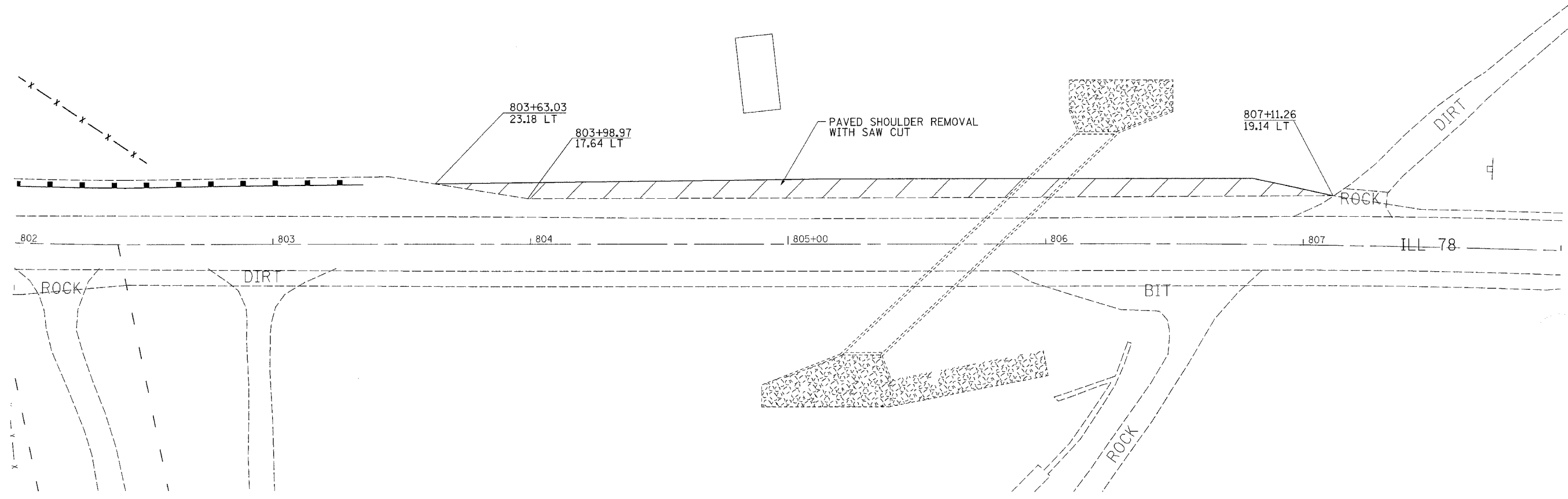
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F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
642	11T	CARROLL	79	34
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	

STAGE 4

STA 801+47 & 805+74.24



STAGE 3 NOTES

1. USE STANDARD 701306 FOR SHOULDER WORK.
2. HMA SHOULDER TO BE SAW CUT AND REMOVED.
3. USE STANDARD 701311 FOR PROPOSED PAVEMENT MARKING.

	= WORK ZONE
	= TYPE III BARRICADE WITH FLASHING LIGHTS
	= SIGN
	= BARRICADE, OR DRUM WITH STEADY BURNING LIGHTS
	= INDUCTION LOOP DETECTOR
	= TRAFFIC SIGNAL
	= TEMPORARY RUMBLE STRIPS

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

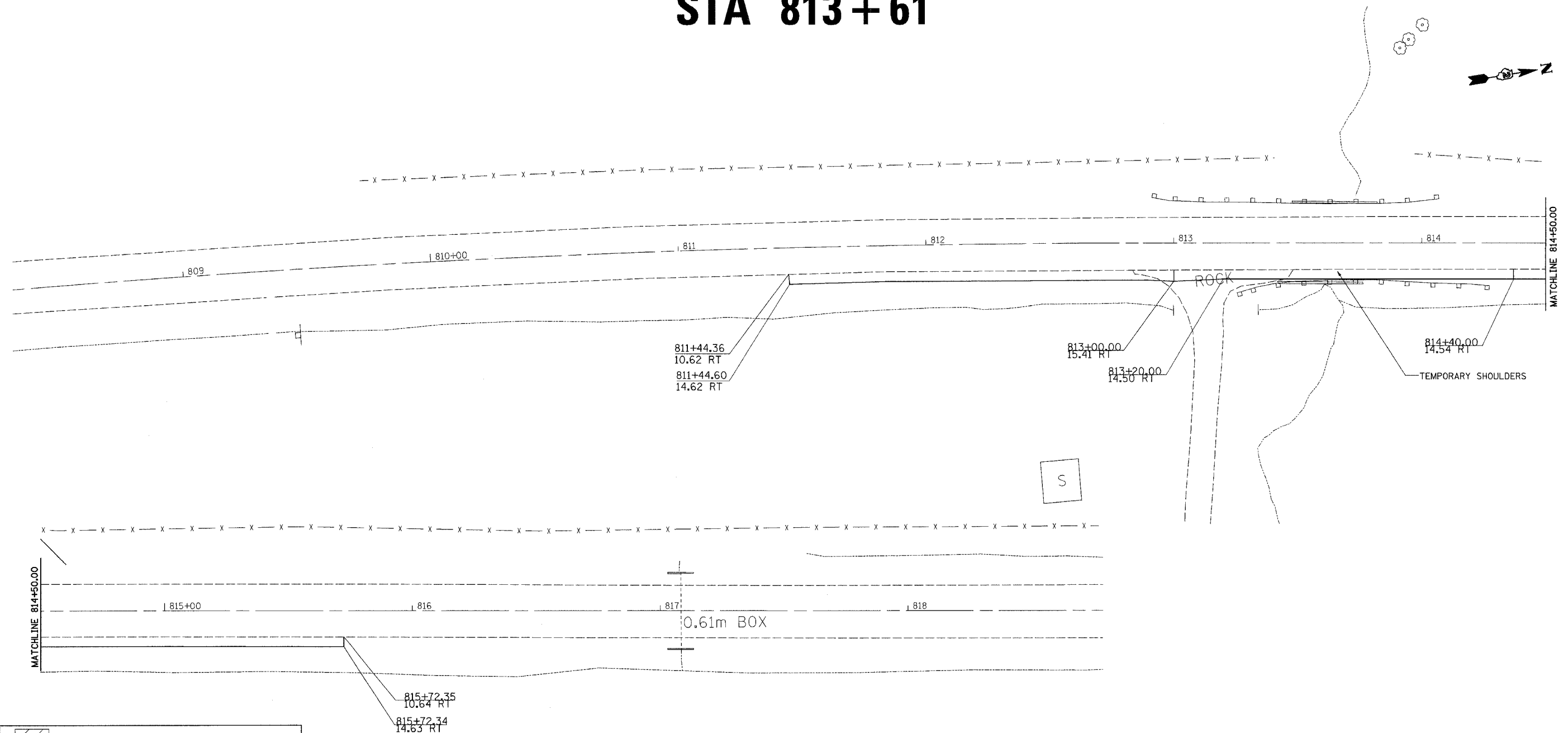
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F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
642	11T	CARROLL	79	35
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	

STAGE 1 STA 813+61



	= WORK ZONE
	= TYPE III BARRICADE WITH FLASHING LIGHTS
	= SIGN
	= BARRICADE, OR DRUM WITH STEADY BURNING LIGHTS
	= INDUCTION LOOP DETECTOR
	= TRAFFIC SIGNAL
	= TEMPORARY RUMBLE STRIPS

STAGE 1 NOTES

1. USE STANDARD 701306 FOR SHOULDER WORK.
2. PLACE HMA SHOULDERS FROM RT STA. 811+44.36 TO RT STA. 813+00 AT FULL WIDTH.
3. AT RT STA. 813+00 TO RT STA. 813+20 TAPER TEMPORARY SHOULDERS TO BE WITHIN EXISTING GUARDRAIL WIDTH.
4. AT RT STA. 814+20 TO RT STA. 814+40 TAPER TEMPORARY SHOULDERS BACK TO FULL WIDTH.
5. PLACE HMA SHOULDERS FROM RT STA. 814+40 TO RT STA. 815+72.34 AT FULL WIDTH.
6. GRADE AND SHAPE FINAL DITCHES IN AREAS OF FULL WIDTH SHOULDERS.

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

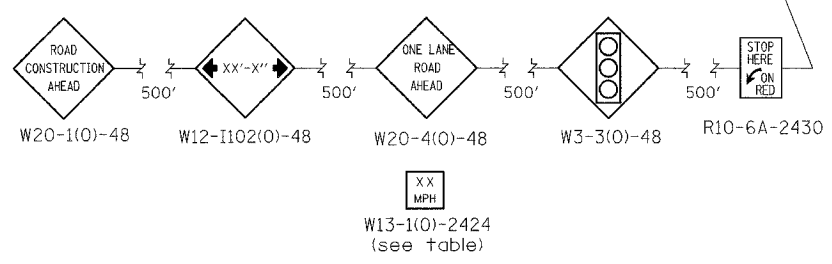
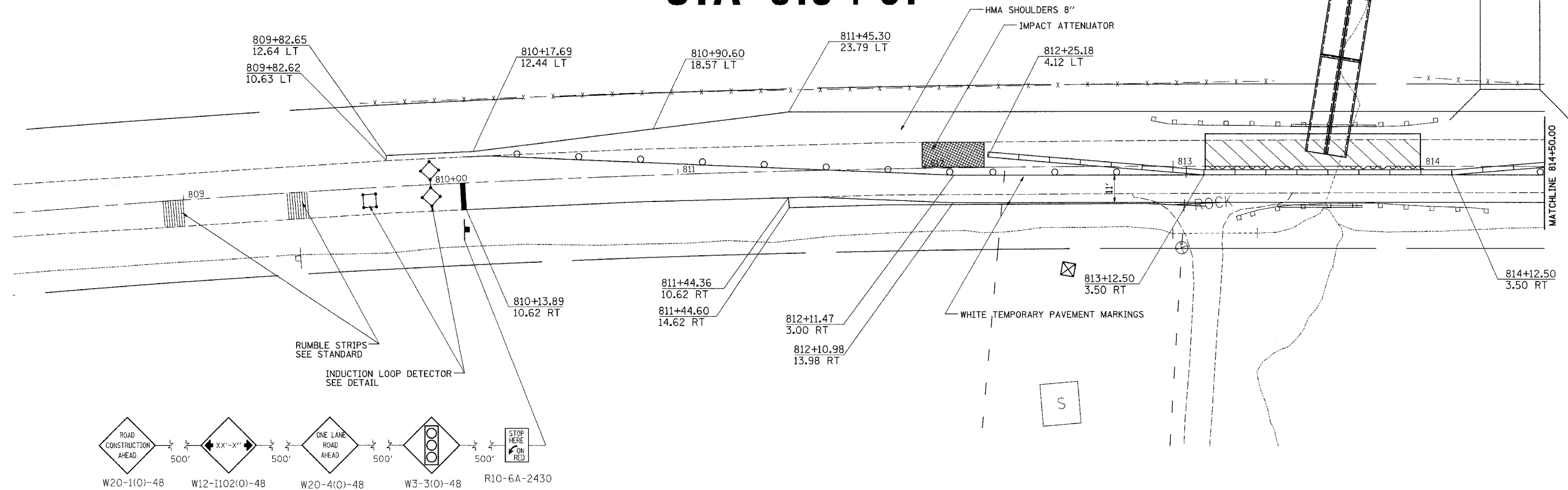
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DATE _____ DRAWN BY _____
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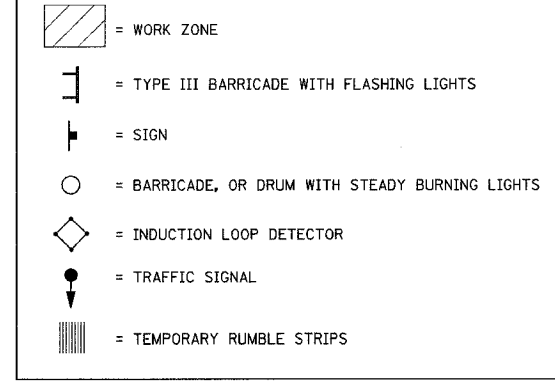
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
642	11T	CARROLL	79	36
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

STAGE 2 STA 813+61



STAGE 2 NOTES

- USE STANDARD 701321 FOR CULVERT WORK.
- CONSTRUCT DOWNSTREAM SECTIONS OF CULVERTS INCLUDING END SECTIONS, RIP-RAP, AND EARTH WORK.
- PLACE HMA SHOULDERS AT FULL WIDTH AND PROPOSED GUARD RAIL IN PREPARATION FOR STAGE 3.



REVISIONS		ILLINOIS DEPARTMENT OF TRANSPORTATION
NAME	DATE	

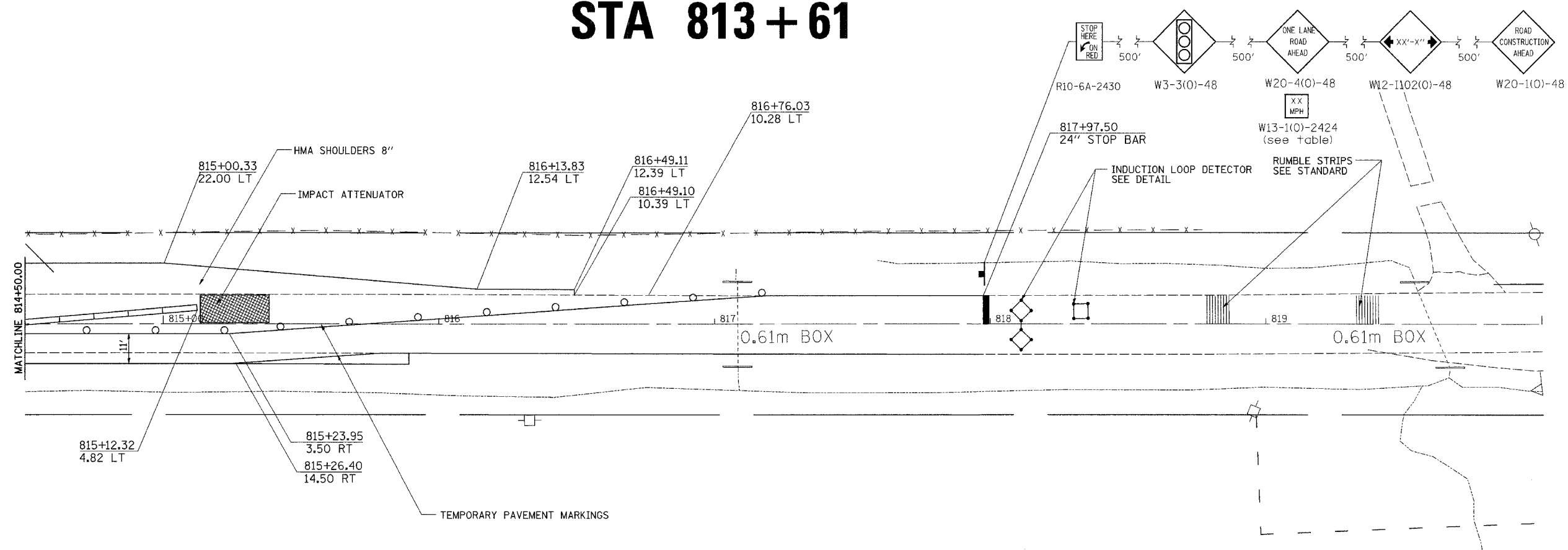
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DRAWN BY / CHECKED BY

STAGING PLAN SHEETS

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USER NAME = cummerby

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
642	11T	CARROLL	79	37
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	

STAGE 2 STA 813+61



STAGE 2 NOTES

1. USE STANDARD 701321 FOR CULVERT WORK.
2. CONSTRUCT DOWNSTREAM SECTIONS OF CULVERTS INCLUDING END SECTIONS, RIP-RAP, AND EARTH WORK.
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	= WORK ZONE
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	= INDUCTION LOOP DETECTOR
	= TRAFFIC SIGNAL
	= TEMPORARY RUMBLE STRIPS

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

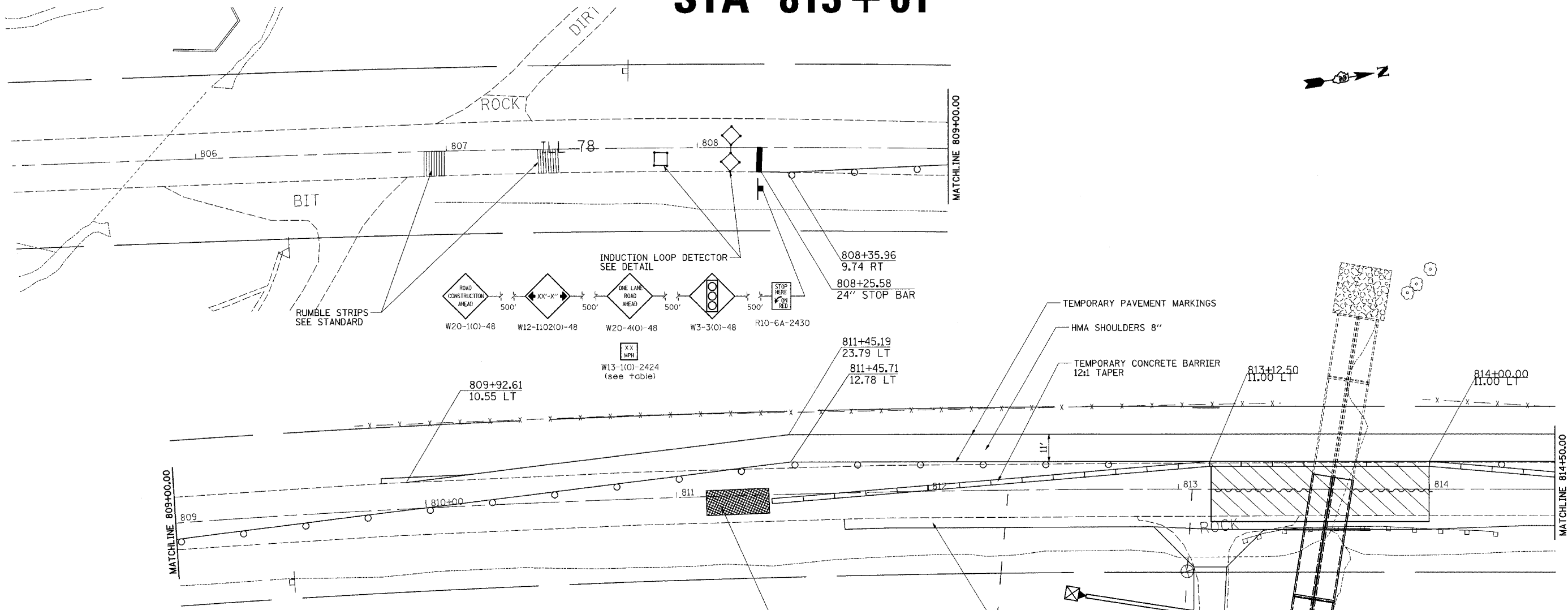
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 HORIZ. _____

DATE _____ DRAWN BY _____
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F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
642	11T	CARROLL	79	38
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

STAGE 3 STA 813+61



STAGE 3 NOTES

1. USE STANDARD 701321 FOR CULVERT WORK.
2. CONSTRUCT UPSTREAM SECTIONS OF CULVERTS INCLUDING END SECTIONS, RIP-RAP, AND EARTH WORK.
3. COMPLETE CONSTRUCTION OF FULL WIDTH HMA SHOULDERS IN AREAS OF GUARDRAIL REMOVAL.

	= WORK ZONE
	= TYPE III BARRICADE WITH FLASHING LIGHTS
	= SIGN
	= BARRICADE, OR DRUM WITH STEADY BURNING LIGHTS
	= INDUCTION LOOP DETECTOR
	= TRAFFIC SIGNAL
	= TEMPORARY RUMBLE STRIPS

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

SCALE: VERT. / HORIZ.

DATE

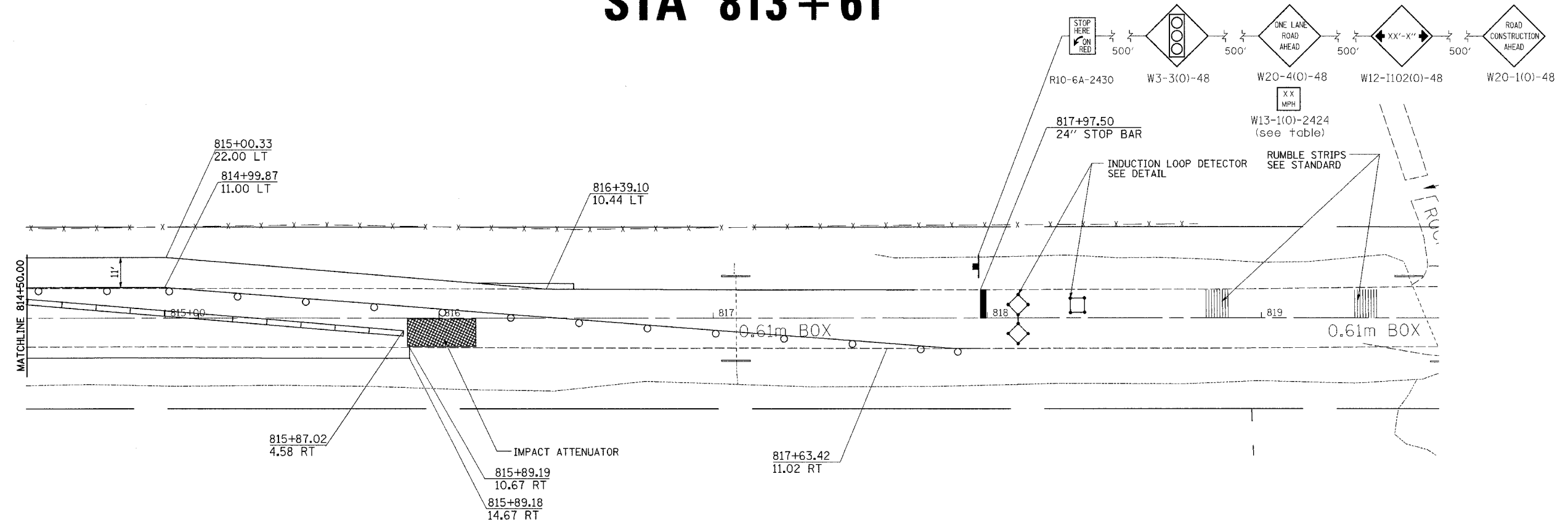
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F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
642	11T	CARROLL	79	39
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	

STAGE 3 STA 813+61



STAGE 3 NOTES

1. USE STANDARD 701321 FOR CULVERT WORK.
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	= INDUCTION LOOP DETECTOR
	= TRAFFIC SIGNAL
	= TEMPORARY RUMBLE STRIPS

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

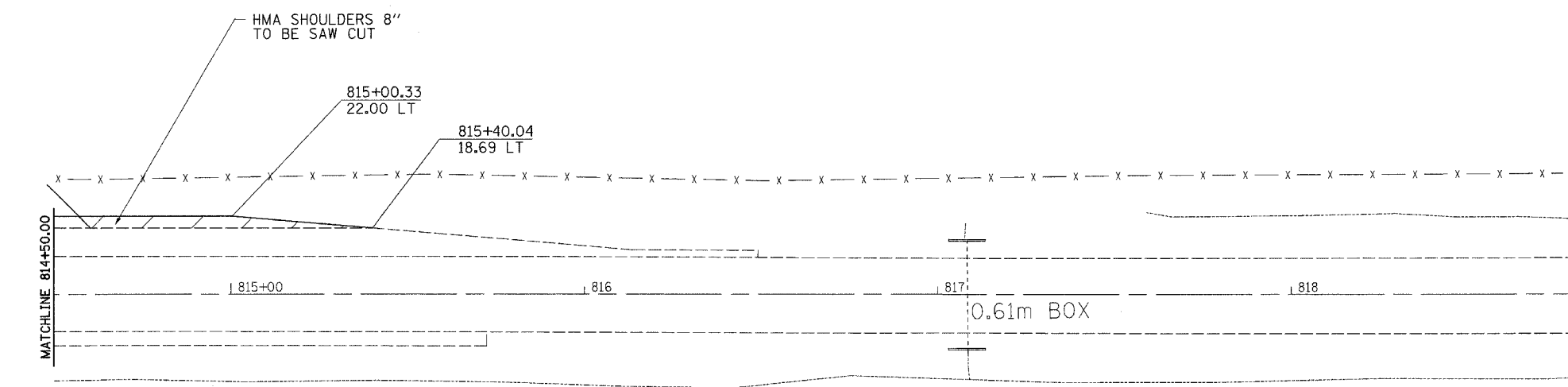
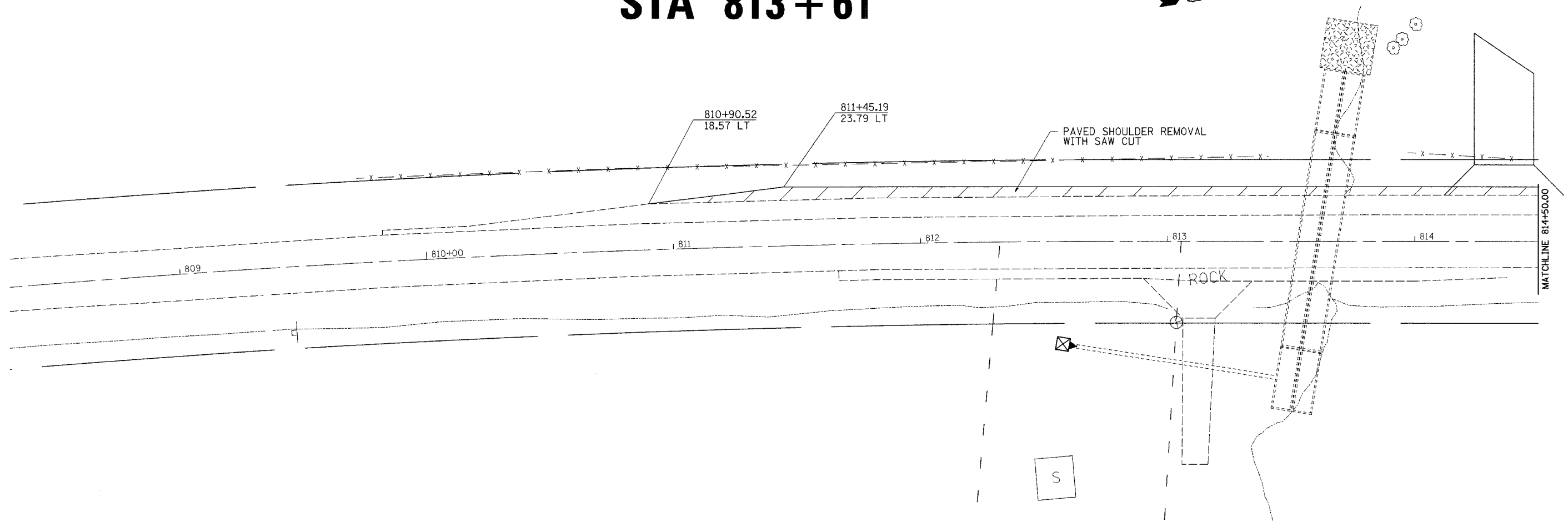
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HORIZ. _____

DATE _____ DRAWN BY _____
CHECKED BY _____

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F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
642	11T	CARROLL	79	40
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	

STAGE 4 STA 813+61



STAGE 4 NOTES

1. USE STANDARD 701306 FOR SHOULDER WORK.
2. HMA SHOULDER TO BE SAW CUT AND REMOVED.
3. USE STANDARD 701311 FOR PROPOSED PAVEMENT MARKING.

	= WORK ZONE
	= TYPE III BARRICADE WITH FLASHING LIGHTS
	= SIGN
	= BARRICADE, OR DRUM WITH STEADY BURNING LIGHTS
	= INDUCTION LOOP DETECTOR
	= TRAFFIC SIGNAL
	= TEMPORARY RUMBLE STRIPS

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

SCALE: VERT. _____
HORIZ. _____

DATE _____

DRAWN BY _____
CHECKED BY _____

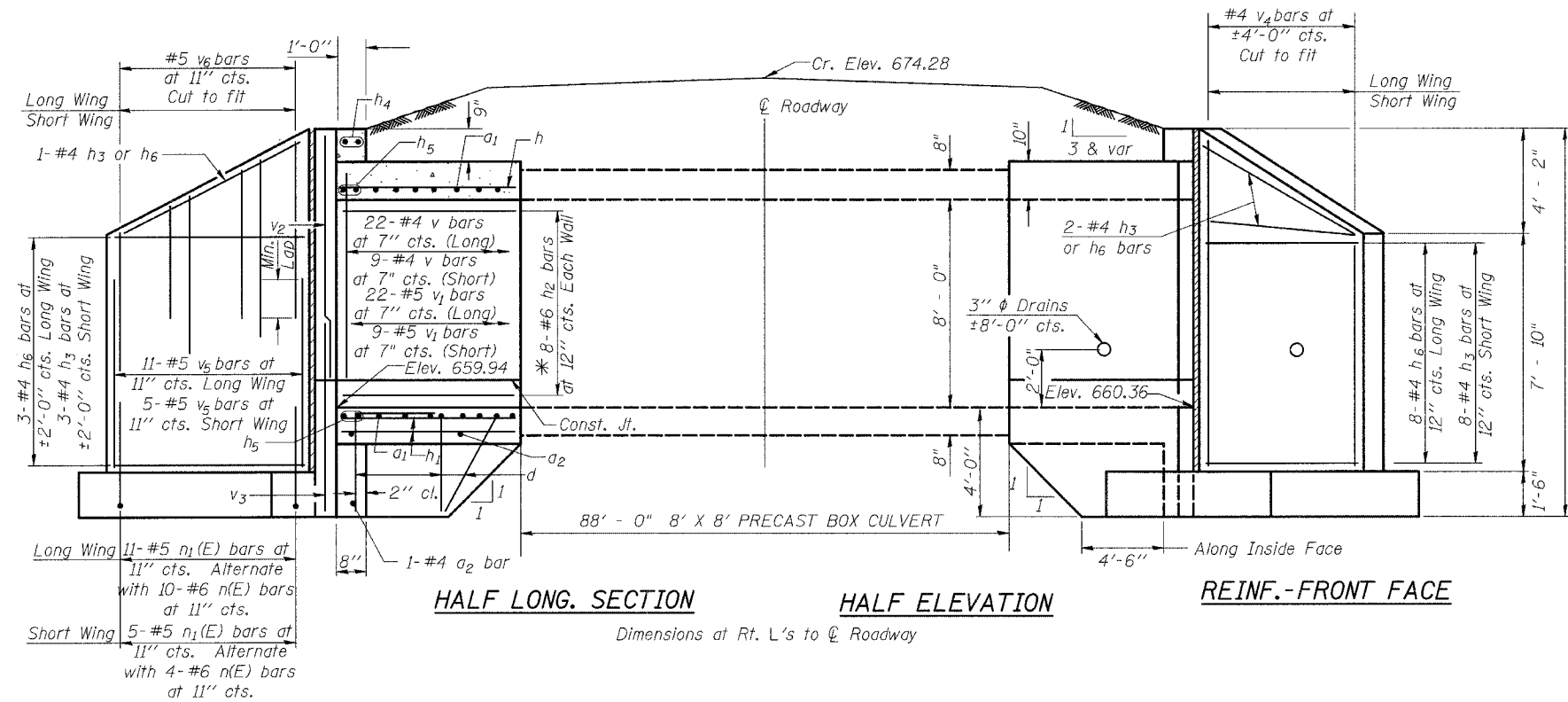
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8'x8' Precast Box Culvert Downstream End Section Only

LT. STA. 801 + 47

DOWNSTREAM END SECTION ONLY
SEE DROP BOX NO. 1 FOR UPSTREAM END SECTION

CONTRACT NO. 64D82				
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
642	11T	CARROLL	79	41
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

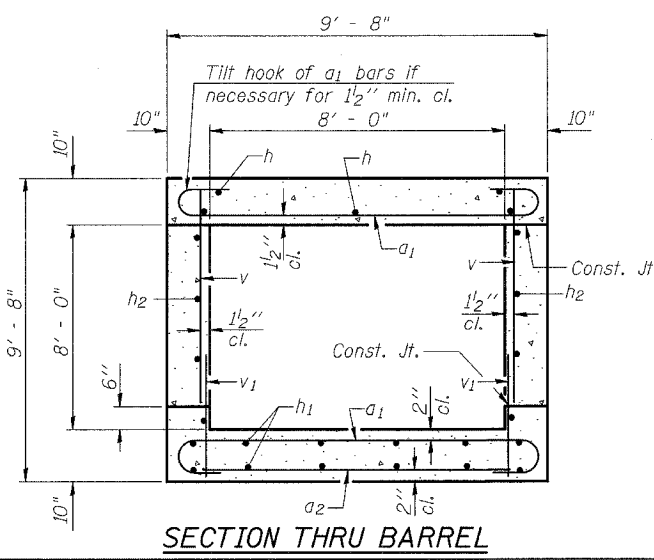
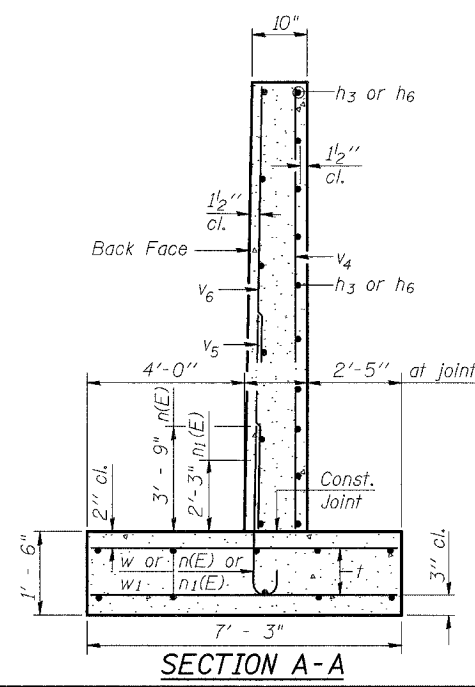
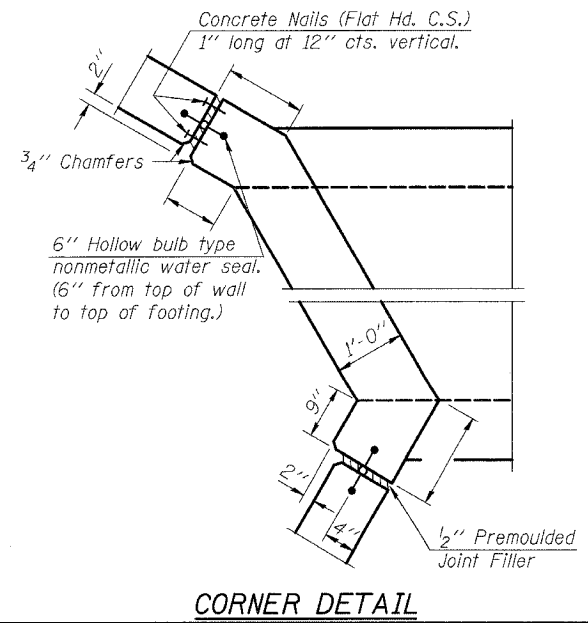


REINF.-BACK FACE

* bars in skew portion of slab shall be ordered full length & cut to fit. Balance of bar to be used in opposite side of end section.

GENERAL NOTES:

- REINFORCEMENT BARS SHALL CONFORM TO THE REQUIREMENTS OF AASHTO M-31, M-42 OR M-53, GRADE 60.
- SEE PLAN AND PROFILE SHEET FOR MORE INFORMATION.
- SEE CROSS SECTION SHEET FOR MORE INFORMATION.
- THIS WORK SHALL BE DONE ACCORDING TO THE APPLICABLE PORTION OF 503, 508, 540, AND 542 OF THE STANDARD SPECIFICATIONS.
- CLASS "SI" CONCRETE SHALL BE USED. EXPOSED EDGES SHALL BE BEVELED 3/4".
- THE CONTRACTOR SHALL NOT UNDERMINE THE PRECAST BOX SECTIONS WHILE BUILDING THE FOOTINGS.
- REINFORCEMENT BARS DESIGNATED (E) SHALL BE EPOXY COATED.
- ALL CONSTRUCTION JOINTS SHALL BE BONDED.
- J BOLTS OR REBAR SPLICERS SHALL BE USED TO CONNECT THE PRECAST SECTIONS TO THE CAST-IN-PLACE SECTIONS.
- THE CONTRACT UNIT PRICE "CU YD" FOR CLASS "SI" CONCRETE SHALL INCLUDE THE EXPANSION BOLTS, J BOLTS, REBAR SPLICERS, ANCHOR BOLTS, 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.



DESIGN STRESSES
 $f_y = 60,000 \text{ psi}$
 $f'_c = 3,500 \text{ psi}$
 Max. Soil Pressure under footing = 2848 psf
LOADING HS 20-44 & ALT.

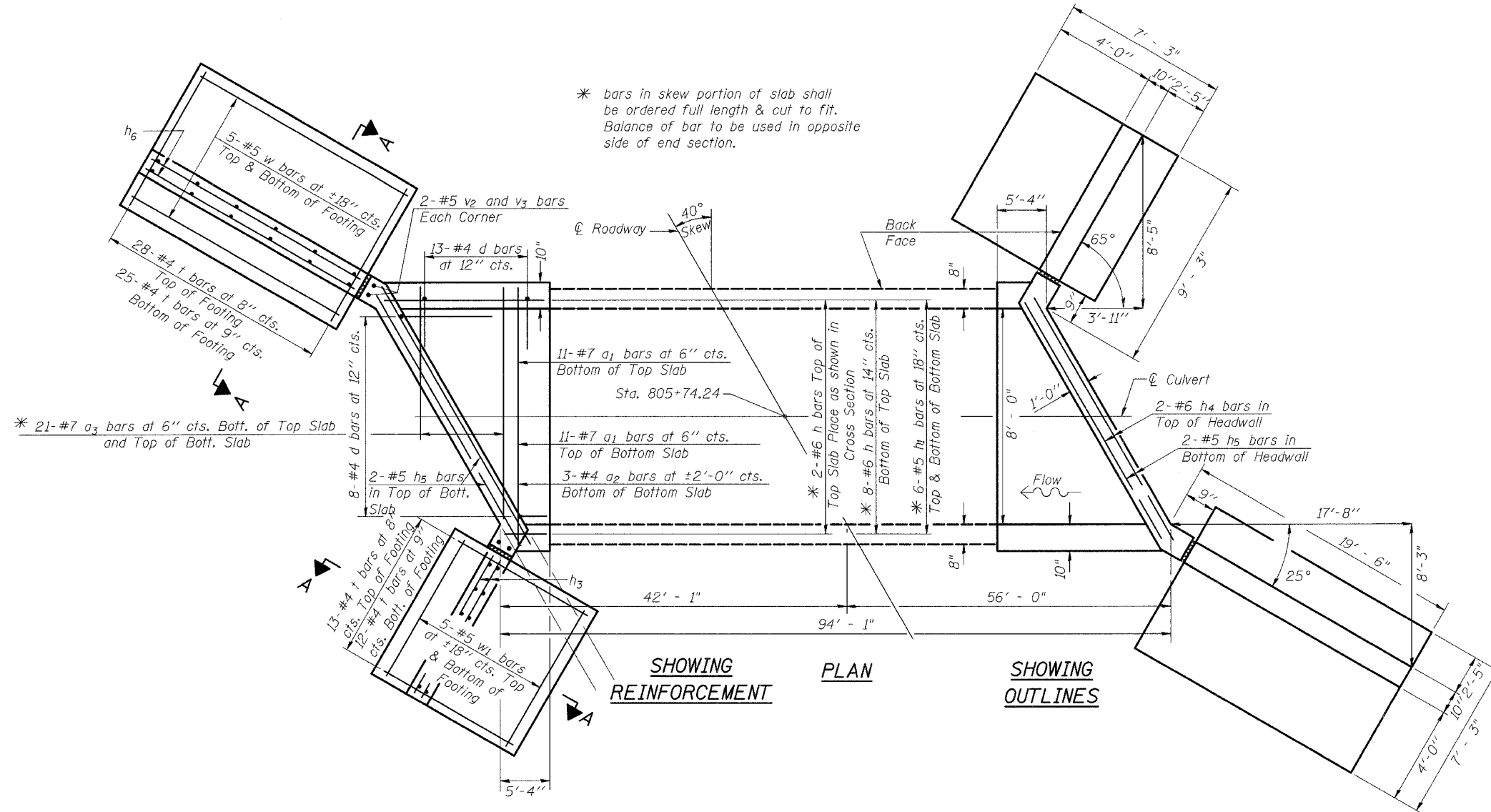
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F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
642	11T	CARROLL	79	42
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

8'x8' Precast Box Culvert Downstream End Section Only

LT. STA. 801 + 47

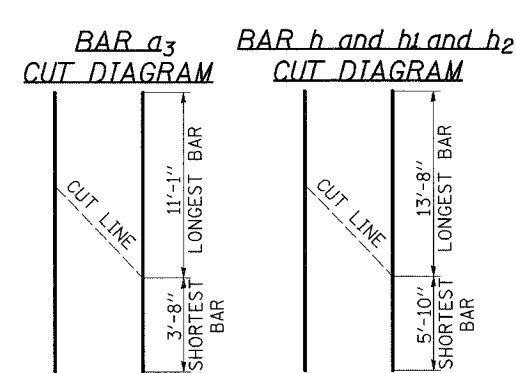
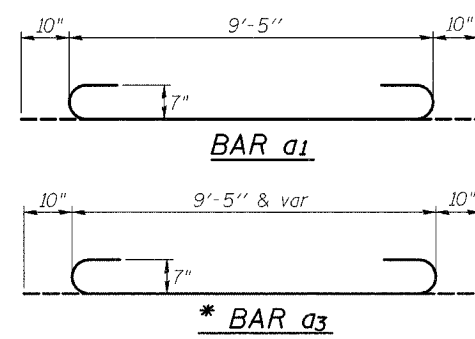
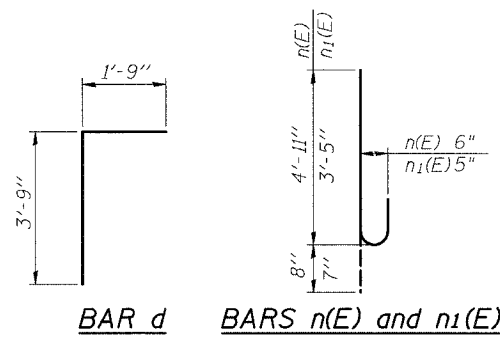
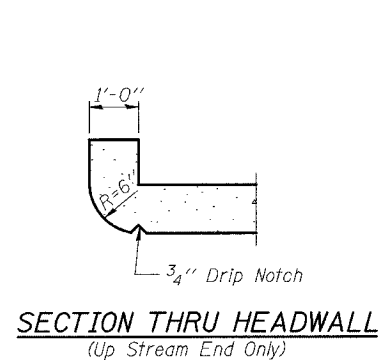
DOWNSTREAM END SECTION ONLY
SEE DROP BOX NO. 1 FOR UPSTREAM END SECTION



* bars in skew portion of slab shall be ordered full length & cut to fit. Balance of bar to be used in opposite side of end section.

BILL OF MATERIAL

Bar	No.	Size	Length	Shape
a ₁	22	#7	11'-1"	U
a ₂	4	#4	8'-10"	—
a ₃	21	#7	14'-9"	U
d	54	#4	5'-6"	—
h	10	#6	19'-6"	—
h ₁	6	#5	19'-6"	—
h ₂	8	#6	19'-6"	—
h ₃	14	#4	8'-3"	—
h ₄	2	#6	12'-0"	—
h ₅	4	#5	12'-0"	—
h ₆	14	#4	18'-6"	—
n(E)	14	#6	5'-7"	U
n ₁ (E)	16	#5	4'-0"	U
t	78	#4	7'-0"	—
v	31	#4	8'-3"	—
v ₁	31	#5	2'-11"	—
v ₂	4	#5	9'-0"	—
v ₃	4	#5	6'-7"	—
v ₄	8	#5	11'-9"	—
v ₅	16	#5	4'-0"	—
v ₆	16	#5	9'-11"	—
w	10	#5	18'-6"	—
w ₁	10	#5	8'-3"	—
Class "SI" Concrete			Cu Yd	32.17
Reinforcement Bars, Epoxy Coated			Pound	184.16
Reinforcement Bars			Pound	3643.21



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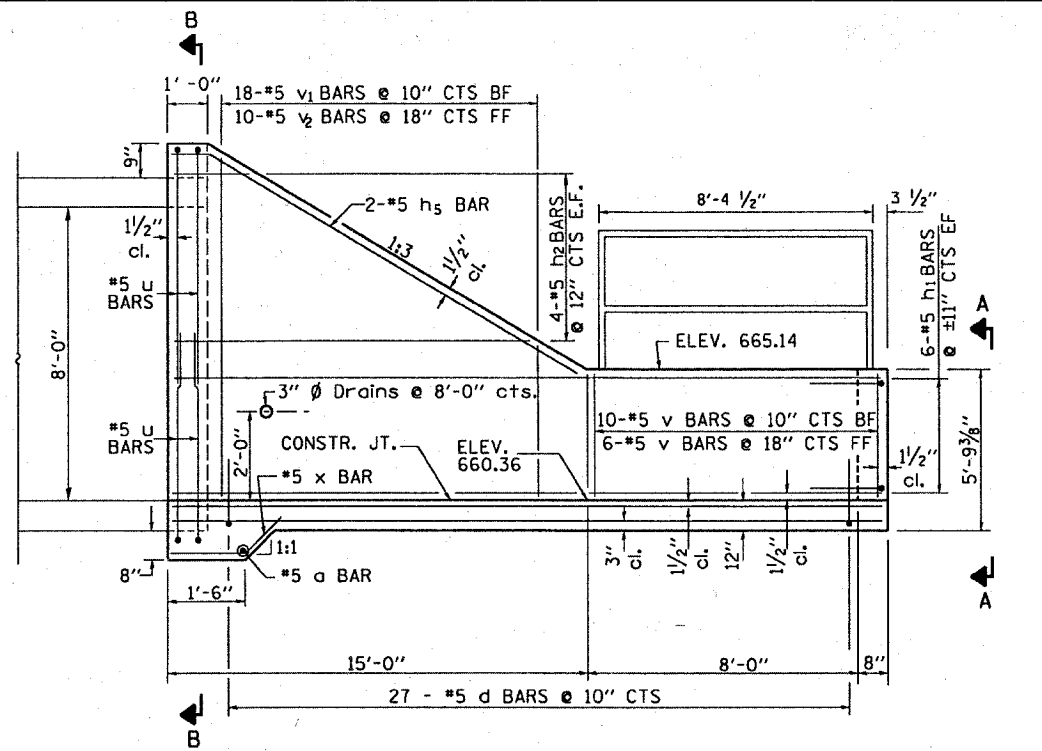
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
642	11T	CARROLL	79	43
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

DROP BOX NO. 1

RT STA 801+47 (IL 78)

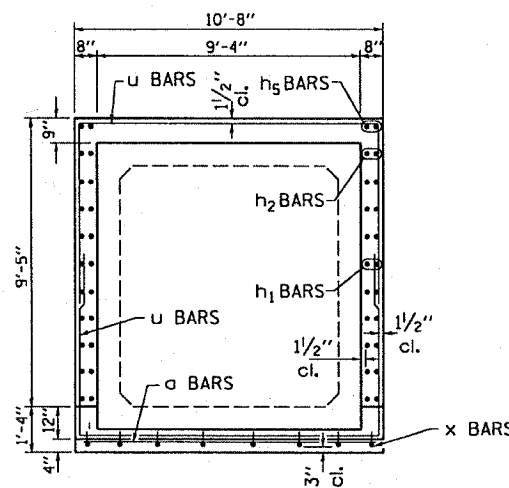
BILL OF MATERIALS

BAR	NO.	SIZE	LENGTH	SHAPE
a	57	5	10'-5"	—
d	64	5	5'-10"	└
h	24	5	22'-5"	—
h1	24	5	23'-5"	—
h2	8	5	15'-6"	—
h3	12	5	10'-5"	—
h4	12	5	5'-10"	└
h5	4	5	16'-8"	└
v	52	5	4'-6"	—
v1	18	5	15'-0"	—
v2	10	5	15'-2"	—
v3	2	5	5'-4"	—
u	4	5	23'-1"	└
x	12	5	2'-3"	└
PIPE HANDRAIL			FOOT	27
CLASS "SI" CONCRETE			CU YD	18.1
REINFORCEMENT BARS			LB	3380

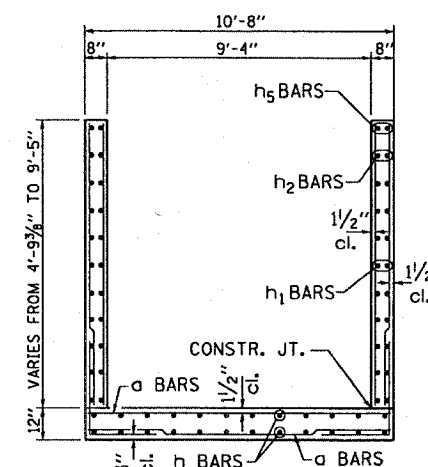


LONGITUDINAL SECTION

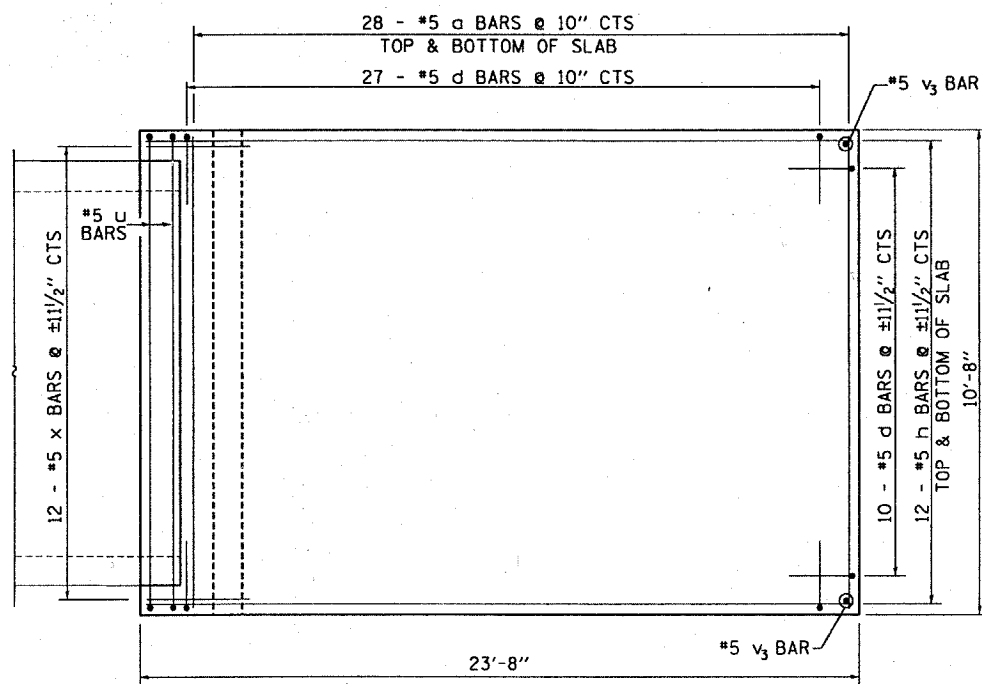
MIN. LAP LENGTH
#5 = 2'-2"



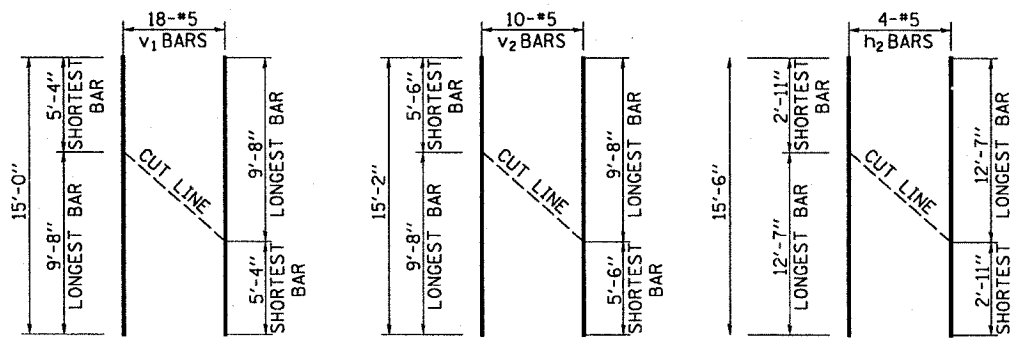
SECTION B-B



SECTION THRU DROP BOX



BOTTOM SLAB PLAN VIEW

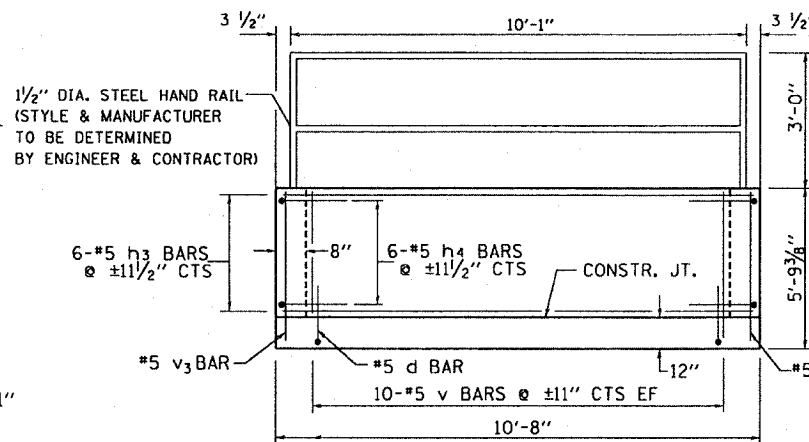


BAR v1 CUT DIAGRAM

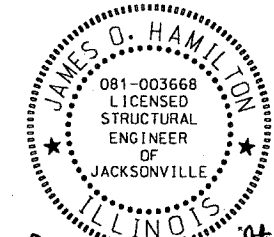
BAR v2 CUT DIAGRAM

BAR h2 CUT DIAGRAM

ORDER v1, v2 & h2 BARS FULL LENGTH.
CUT AS SHOWN AND USE REMAINDER
OF BARS IN OPPOSITE WALL.



VIEW A-A



James O. Hamilton
12/10/2007
Lic. Expires
11/30/2008

GENERAL NOTES:

REINFORCEMENT BARS SHALL CONFORM TO THE REQUIREMENTS OF ASTM A706 GRADE 60 (IL MODIFIED). SEE SPECIAL PROVISIONS.

SEE PLAN AND PROFILE SHEET FOR MORE INFORMATION. SEE CROSS SECTION SHEET FOR MORE INFORMATION.

ALL HANDRAIL DIMENSIONS SHALL BE VERIFIED BY CONTRACTOR PRIOR TO FABRICATION OF PIPE HANDRAIL, BASED UPON FINAL LOCATION OF MOUNTING BOLTS.

HANDRAIL SHALL CONFORM TO SECTION 510 WITH THE EXCEPTION THAT ALL PIPE AND CONNECTIONS SHALL BE WELDED GALVANIZED OR ALUMINUM ACCORDING TO ARTICLE 1006.27, 1006.30, OR 1006.34.

THE DIAMETER OF THE GRIPPING SURFACE OF THE HANDRAIL SHALL BE 1-1/4" TO 1-1/2"

ENDS OF HANDRAIL SHALL BE ROUNDED.

HAND & SAFETY RAILS SHALL NOT ROTATE WITHIN THEIR FITTINGS.

GRIPPING SURFACES SHALL BE UNINTERRUPTED BY NEWEL POSTS, OTHER CONSTRUCTION ELEMENTS, OR OBSTRUCTIONS.

SEE PIPE HANDRAIL DETAIL SHEET FOR MORE INFORMATION.

THIS WORK SHALL BE DONE ACCORDING TO THE APPLICABLE PORTION OF 503, 508, 540, AND 542 OF THE STANDARD SPECIFICATIONS.

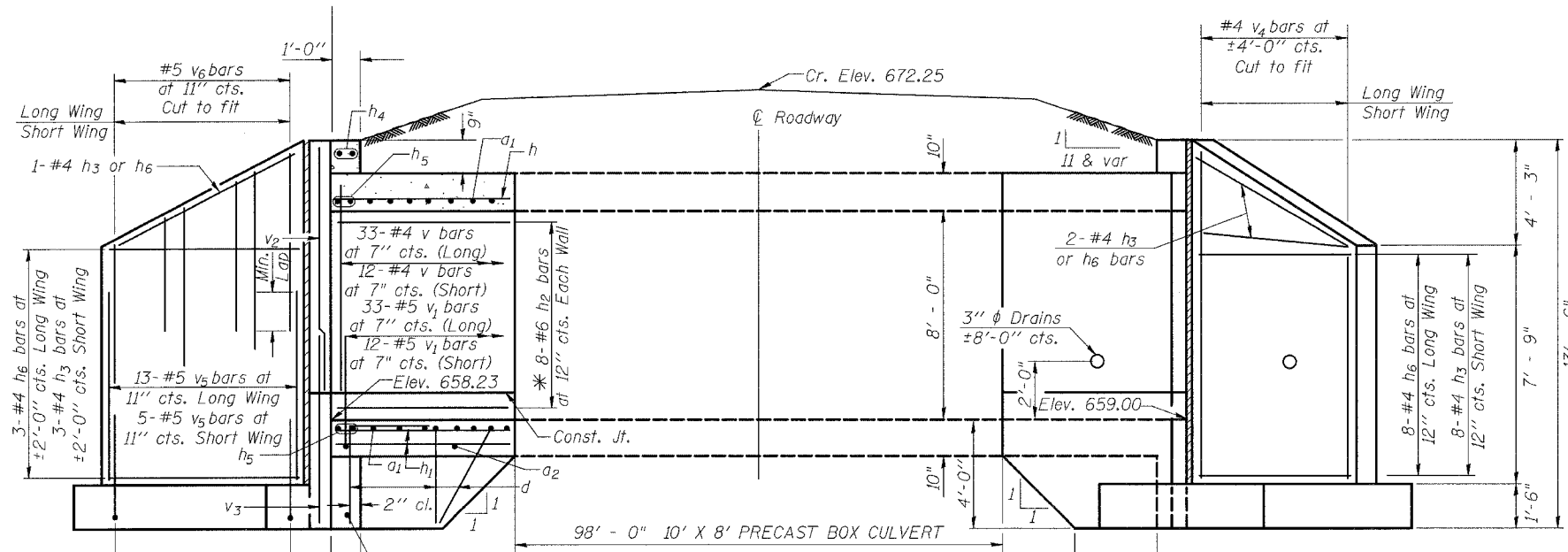
EXPOSED EDGES SHALL BE BEVELED 3/4".

THE COST OF EARTH EXCAVATION, WHERE REQUIRED, AND NECESSARY GRADING TO FIT THE INLET AS SHOWN IN THE CROSS SECTIONS OR TO THE SLOPE IS INCLUDED IN COST OF "CLASS "SI" CONCRETE."

THE CONTRACT UNIT PRICE "FOOT" FOR PIPE HANDRAIL SHALL INCLUDE THE PIPE, ANCHOR RODS, ANCHOR BOLTS, BOLTS, NUTS, WASHERS, AND STEEL BASE PLATES.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
642	11T	CARROLL	79	44
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	

10'x8' Precast Box Culvert End Sections RT. & LT. STA. 805 + 74.24

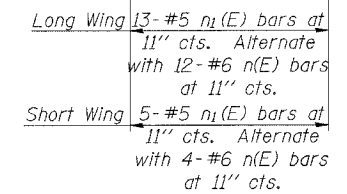


HALF LONG SECTION

HALF ELEVATION

REINF.-FRONT FACE

Dimensions at Rt. L's to \varnothing Roadway



REINF.-BACK FACE

GENERAL NOTES:

REINFORCEMENT BARS SHALL CONFORM TO THE REQUIREMENTS OF AASHTO M-31, M-42 OR M-53, GRADE 60.

SEE PLAN AND PROFILE SHEET FOR MORE INFORMATION.

SEE CROSS SECTION SHEET FOR MORE INFORMATION.

THIS WORK SHALL BE DONE ACCORDING TO THE APPLICABLE PORTION OF 503, 508, 540, AND 542 OF THE STANDARD SPECIFICATIONS.

CLASS "SI" CONCRETE SHALL BE USED. EXPOSED EDGES SHALL BE BEVELED $\frac{3}{4}$ ".

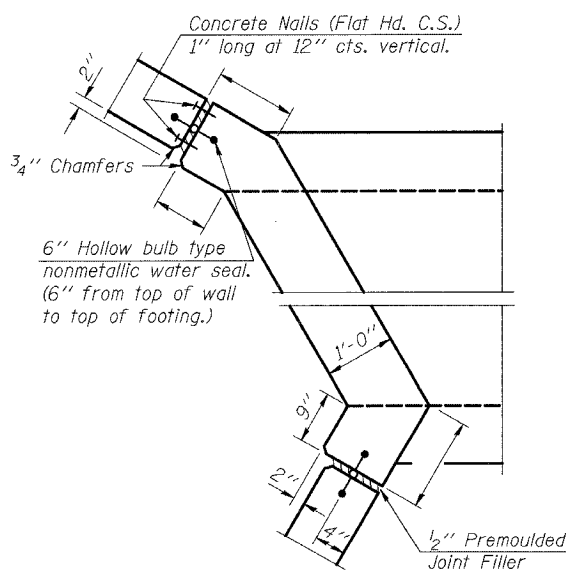
THE CONTRACTOR SHALL NOT UNDERMINE THE PRECAST BOX SECTIONS WHILE BUILDING THE FOOTINGS.

REINFORCEMENT BARS DESIGNATED (E) SHALL BE EPOXY COATED.

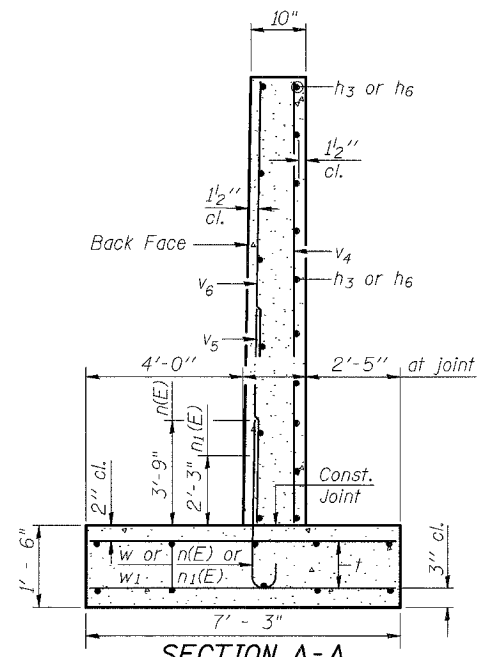
ALL CONSTRUCTION JOINTS SHALL BE BONDED.

J BOLTS OR REBAR SPLICERS SHALL BE USED TO CONNECT THE PRECAST SECTIONS TO THE CAST-IN-PLACE SECTIONS.

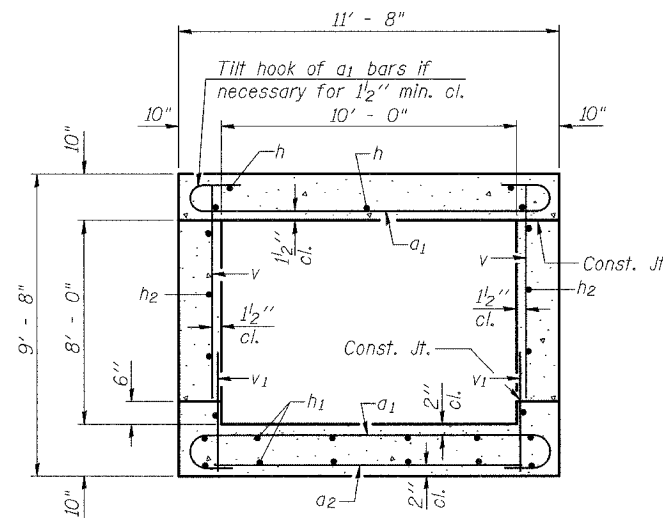
THE CONTRACT UNIT PRICE "CU YD" FOR CLASS "SI" CONCRETE SHALL INCLUDE THE EXPANSION BOLTS, J BOLTS, REBAR SPLICERS, ANCHOR BOLTS, BOLTS, NUTS, WASHERS, STEEL PLATES, EARTH EXCAVATION WHERE REQUIRED, AND NECESSARY GRADING TO FIT THE INLET AS SHOWN IN THE CROSS SECTIONS OR TO THE SLOPE.



CORNER DETAIL



SECTION A-A



SECTION THRU BARREL

DESIGN STRESSES

$f_y = 60,000 \text{ psi}$
 $f'_c = 3,500 \text{ psi}$

Max. Soil Pressure under footing = 2848 psf

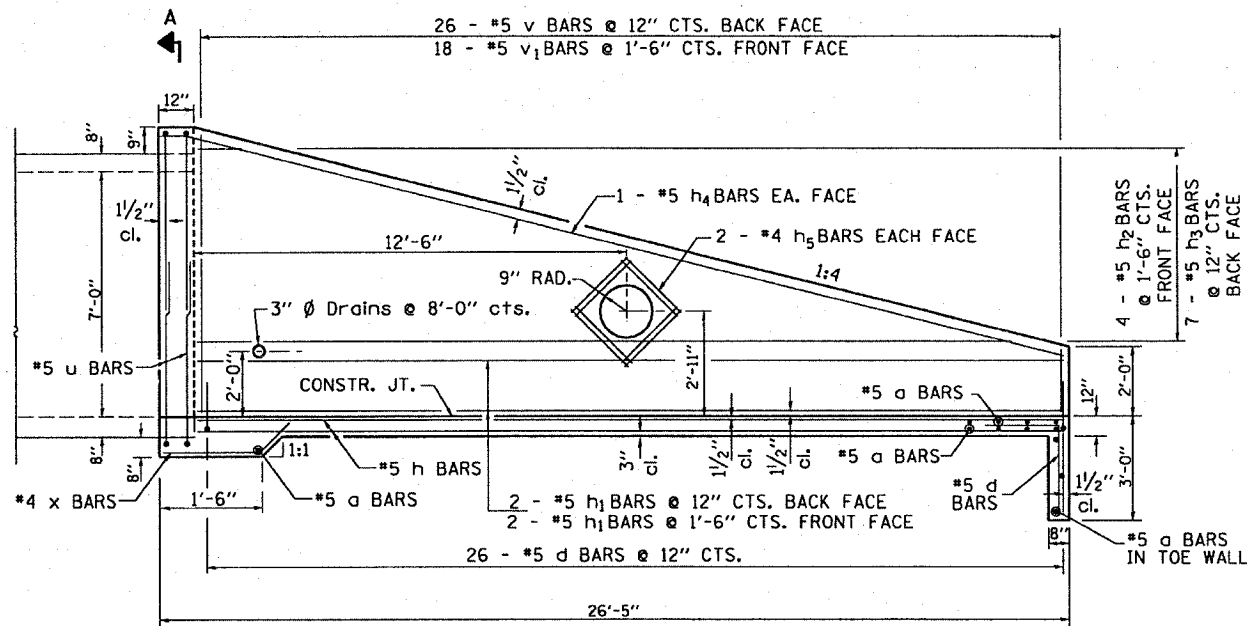
LOADING HS 20-44 & ALT.

PLOT DATE = Wed Oct 19 15:22:53 2007
PLOT SCALE = 1/8" = 1'-0"
PLOT USER = cshimabw

7'x7' Precast Double Box Culvert End Sections

RT. & LT. STA. 813 + 61

CONTRACT NO. 64082				
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
642	11T	CARROLL	79	46
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

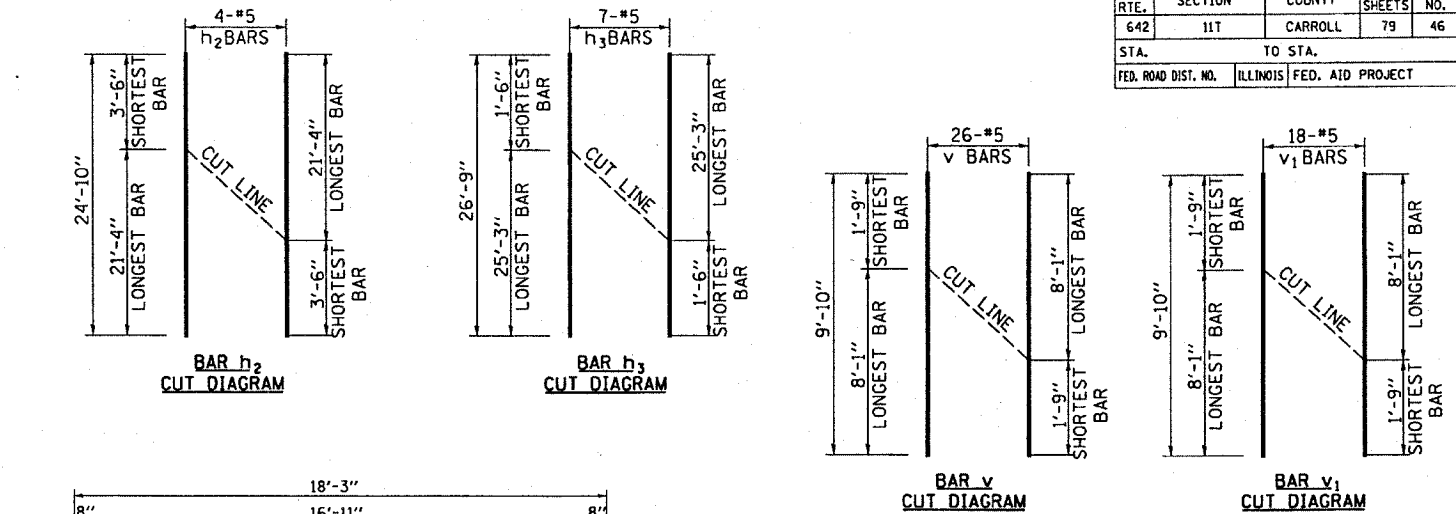


LONGITUDINAL SECTION

CUT BARS TO FIT AROUND PIPE CULVERT

MIN. LAP LENGTH

*5 = 2'-2"

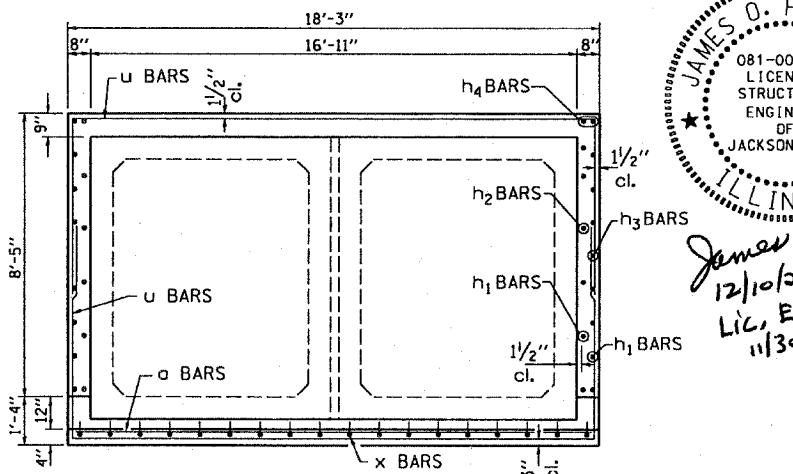


ORDER v, v1, h2 & h3 BARS FULL LENGTH. CUT AS SHOWN AND USE REMAINDER OF BARS IN OPPOSITE WALL.

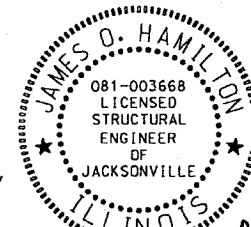
BILL OF MATERIALS

BAR	NO.	SIZE	LENGTH	SHAPE
a	56	5	18'-0"	—
d	70	5	5'-6"	└
h	36	5	25'-2"	—
h1	8	5	24'-2"	—
h2	4	5	24'-10"	—
h3	7	5	26'-9"	—
h4	4	5	26'-10"	—
h5	16	4	6'-0"	—
v	26	5	9'-10"	—
v1	18	5	9'-10"	—
u	4	5	29'-8"	┌
x	18	5	2'-3"	—
CLASS "SI" CONCRETE			CU YD	26.1
REINFORCEMENT BARS			LB	3700

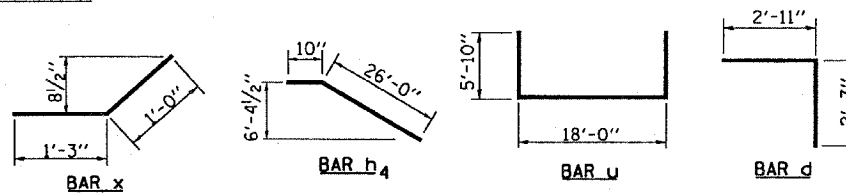
SECTION THRU END SECTION



SECTION A-A



James O. Hamilton
12/10/2007
Lic. Expires 11/30/2008



GENERAL NOTES:

REINFORCEMENT BARS SHALL CONFORM TO THE REQUIREMENTS OF ASTM A706 GRADE 60 (IL MODIFIED). SEE SPECIAL PROVISIONS.

SEE PLAN AND PROFILE SHEET FOR MORE INFORMATION. SEE CROSS SECTION SHEET FOR MORE INFORMATION.

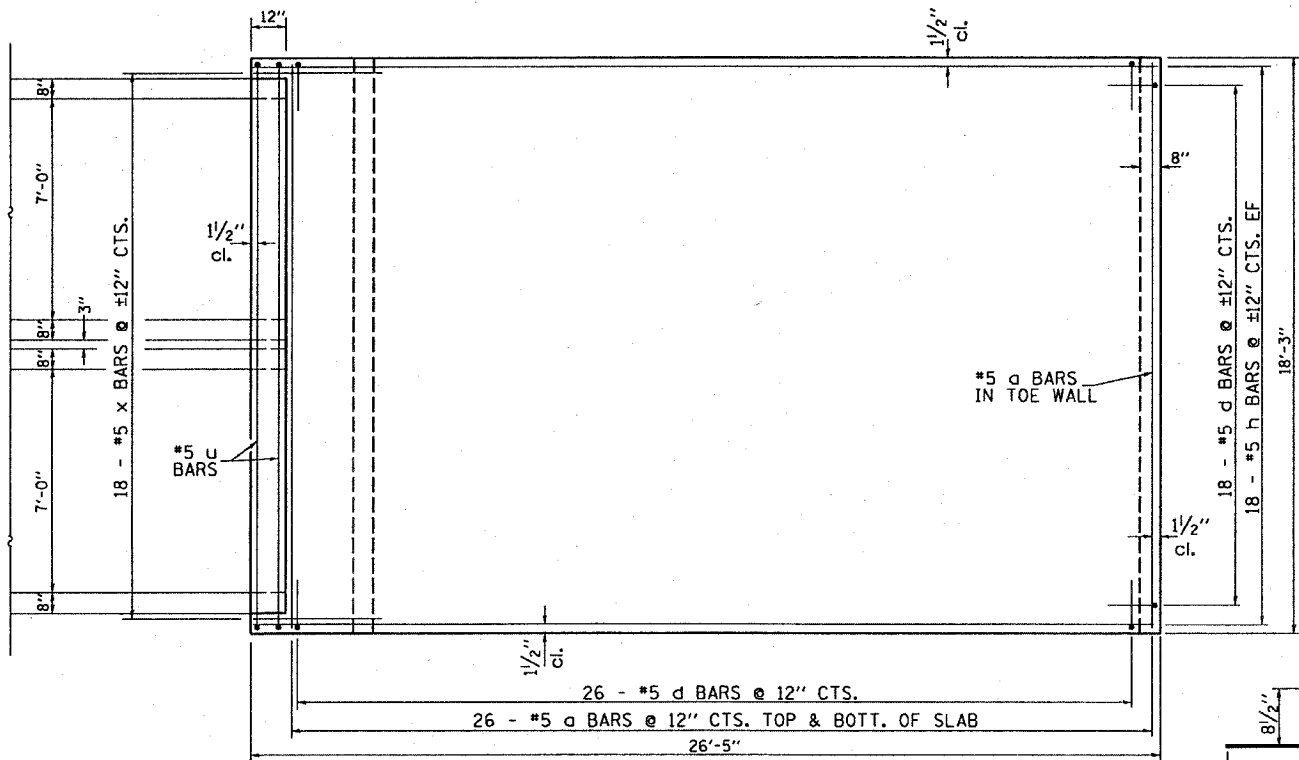
THIS WORK SHALL BE DONE ACCORDING TO THE APPLICABLE PORTION OF 503, 508, 540, AND 542 OF THE STANDARD SPECIFICATIONS.

EXPOSED EDGES SHALL BE BEVELED 3/4".

PLACE 1/2" PJF BETWEEN PIPE CULVERT AND WALL.

THE COST OF PJF, EARTH EXCAVATION, WHERE REQUIRED, AND NECESSARY GRADING TO FIT THE INLET AS SHOWN IN THE CROSS SECTIONS OR TO THE SLOPE IS INCLUDED IN COST OF "CLASS "SI" CONCRETE."

BOTTOM SLAB PLAN VIEW



PLOT DATE: 12/18/2007
FILE NAME: V:\Bridges\2244-13\c8888888.dwg
PLOT SCALE: 1/4"=1'-0"
USER NAME: J. Hamilton

F.A.P. RTE. 642	SECTION 11T	COUNTY CARROLL	TOTAL SHEETS 79	SHEET NO. 47
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

DROP BOX NO. 2

RT STA 826 + 67 (IL 78)

BILL OF MATERIALS

BAR	NO.	SIZE	LENGTH	WEIGHT (LB)	BAR SHAPE
a	20	#6	14'-2"	425.57	—
b	34	#6	5'-1"	259.60	—
h	16	#6	5'-1"	122.16	—
h ₁	8	#6	14'-2"	170.23	—
L	17	#5	5'-6"	97.52	—
L ₁	27	#5	4'-10"	136.11	—
L ₂	2	#5	5'-5"	11.30	—
L ₃	4	#5	6'-3"	26.08	—
s	17	#4	3'-7"	40.69	—
v	27	#5	3'-1"	86.83	—
v ₁	17	#5	4'-3"	75.36	—
PIPE HANDRAIL			FOOT	37.17	
CLASS "SI" CONCRETE			CU YD	4.75	
REINFORCEMENT BARS			LB	1451.44	

GENERAL NOTES:

REINFORCEMENT BARS SHALL CONFORM TO THE REQUIREMENTS OF AASHTO M-31 OR M-53, GRADE 60.

SEE PLAN AND PROFILE SHEET FOR MORE INFORMATION.
SEE CROSS SECTION SHEET FOR MORE INFORMATION.

ALL HANDRAIL DIMENSIONS SHALL BE VERIFIED BY CONTRACTOR PRIOR TO FABRICATION OF PIPE HANDRAIL, BASED UPON FINAL LOCATION OF MOUNTING BOLTS.

HANDRAIL SHALL CONFORM TO SECTION 510 WITH THE EXCEPTION THAT ALL PIPE AND CONNECTIONS SHALL BE WELDED GALVANIZED OR ALUMINUM ACCORDING TO ARTICLE 1006.27, 1006.30, OR 1006.34.

THE DIAMETER OF THE GRIPPING SURFACE OF THE HANDRAIL SHALL BE 1-1/4" TO 1-1/2"

ENDS OF HANDRAIL SHALL BE ROUNDED.

HAND & SAFETY RAILS SHALL NOT ROTATE WITHIN THEIR FITTINGS.

GRIPPING SURFACES SHALL BE UNINTERRUPTED BY NEWEL POSTS, OTHER CONSTRUCTION ELEMENTS, OR OBSTRUCTIONS.

SEE PIPE HANDRAIL DETAIL SHEET FOR MORE INFORMATION.

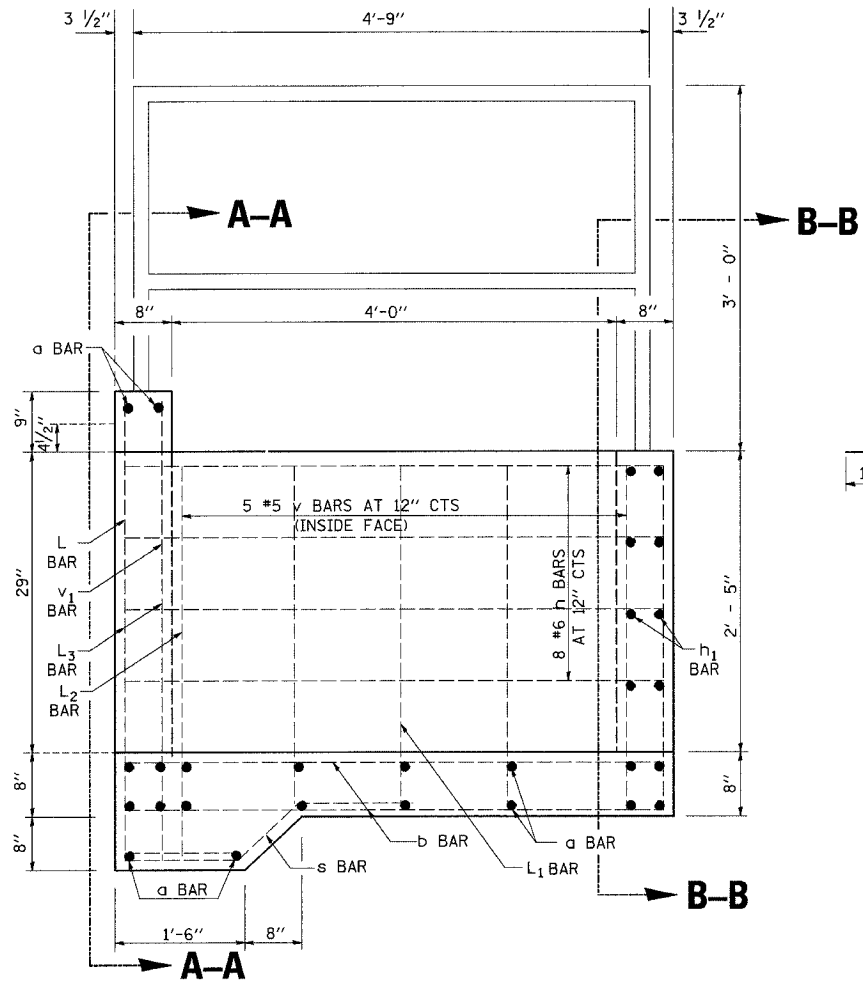
THIS WORK SHALL BE DONE ACCORDING TO THE APPLICABLE PORTION OF 503, 508, 540, AND 542 OF THE STANDARD SPECIFICATIONS.

CLASS "SI" CONCRETE SHALL BE USED. EXPOSED EDGES SHALL BE BEVELED 3/4".

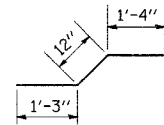
J BOLTS OR REBAR SPLICERS SHALL BE USED TO CONNECT THE PRECAST SECTIONS TO THE CAST-IN-PLACE SECTIONS.

THE CONTRACT UNIT PRICE "CU YD" FOR CLASS "SI" CONCRETE SHALL INCLUDE THE EXPANSION BOLTS, J BOLTS, REBAR SPLICERS, ANCHOR BOLTS, 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.

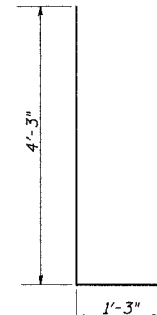
THE CONTRACT UNIT PRICE "FOOT" FOR PIPE HANDRAIL SHALL INCLUDE THE PIPE, ANCHOR RODS, ANCHOR BOLTS, BOLTS, NUTS, WASHERS, AND STEEL BASE PLATES.



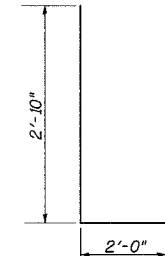
PROFILE



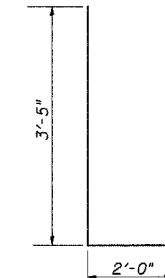
BAR s



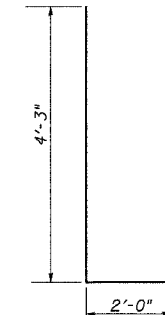
BAR L



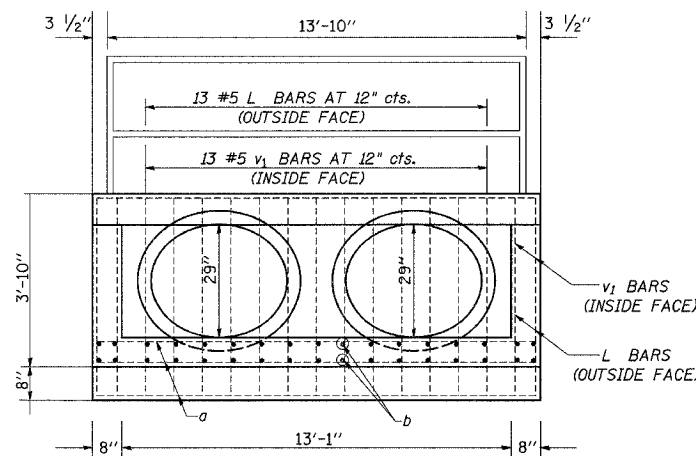
BAR L₁



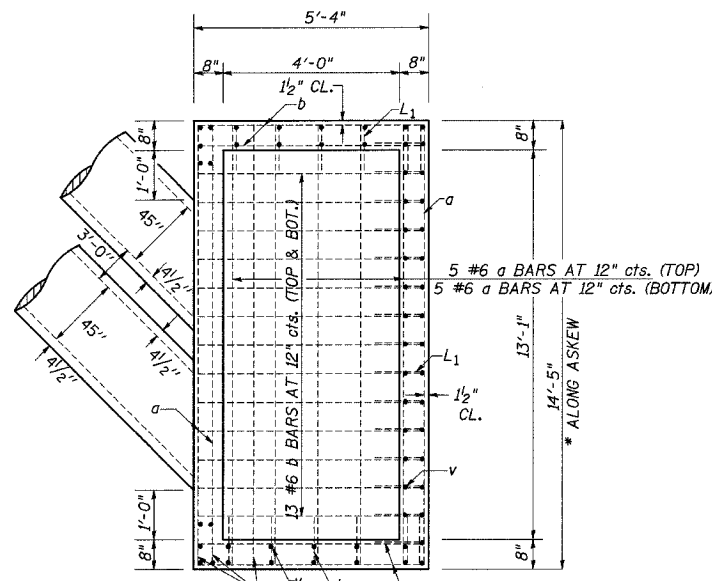
BAR L₂



BAR L₃

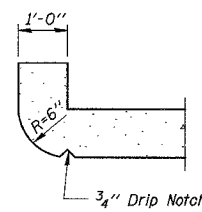


SECTION A-A

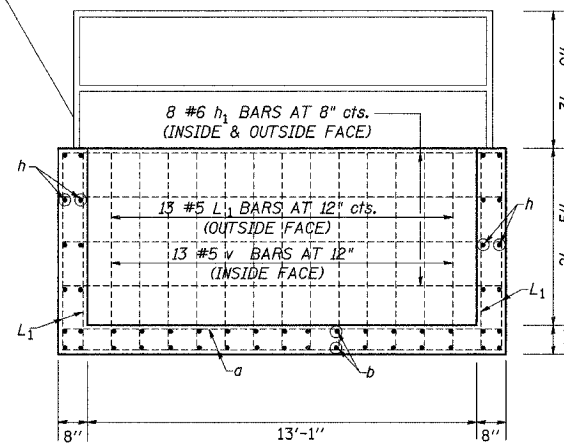


PLAN

1/2" DIA. STEEL HAND RAIL (STYLE & MANUFACTURER TO BE DETERMINED BY ENGINEER & CONTRACTOR)



SECTION THRU HEADWALL



SECTION B-B

PLOT DATE = Wed Oct 18 15:22:51 2007
 PLOT SCALE = 50' = 1" (AS SHOWN)
 PLOT USER = cshamby
 PLOT FILE = c:\p1\64d82\64d82.dgn

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
642	11T	CARROLL	79	48
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	

DROP BOX NO. 3

RT STA 843+08 (IL 78)

BILL OF MATERIALS

BAR	NO.	SIZE	LENGTH	WEIGHT (LB)	BAR SHAPE
a	20	#6	15'-1"	453.10	—
b	36	#6	5'-1"	274.87	—
h	16	#6	5'-1"	122.16	—
h ₁	8	#6	15'-1"	181.24	—
L	18	#5	5'-6"	103.26	—
L ₁	28	#5	4'-10"	141.15	—
L ₂	2	#5	5'-5"	11.30	—
L ₃	4	#5	6'-3"	26.08	—
s	18	#4	3'-7"	43.09	—
v	28	#5	3'-1"	90.05	—
v ₁	18	#5	4'-3"	79.79	—
PIPE HANDRAIL				FOOT	39.0
CLASS "SI" CONCRETE				CU YD	5.07
REINFORCEMENT BARS				LB	1526.08

GENERAL NOTES:

REINFORCEMENT BARS SHALL CONFORM TO THE REQUIREMENTS OF AASHTO M-31 OR M-53, GRADE 60.

SEE PLAN AND PROFILE SHEET FOR MORE INFORMATION. SEE CROSS SECTION SHEET FOR MORE INFORMATION.

ALL HANDRAIL DIMENSIONS SHALL BE VERIFIED BY CONTRACTOR PRIOR TO FABRICATION OF PIPE HANDRAIL, BASED UPON FINAL LOCATION OF MOUNTING BOLTS.

HANDRAIL SHALL CONFORM TO SECTION 510 WITH THE EXCEPTION THAT ALL PIPE AND CONNECTIONS SHALL BE WELDED GALVANIZED OR ALUMINUM ACCORDING TO ARTICLE 1006.27, 1006.30, OR 1006.34.

THE DIAMETER OF THE GRIPPING SURFACE OF THE HANDRAIL SHALL BE 1-1/4" TO 1-1/2"

ENDS OF HANDRAIL SHALL BE ROUNDED.

HAND & SAFETY RAILS SHALL NOT ROTATE WITHIN THEIR FITTINGS.

GRIPPING SURFACES SHALL BE UNINTERRUPTED BY NEWEL POSTS, OTHER CONSTRUCTION ELEMENTS, OR OBSTRUCTIONS.

SEE PIPE HANDRAIL DETAIL SHEET FOR MORE INFORMATION.

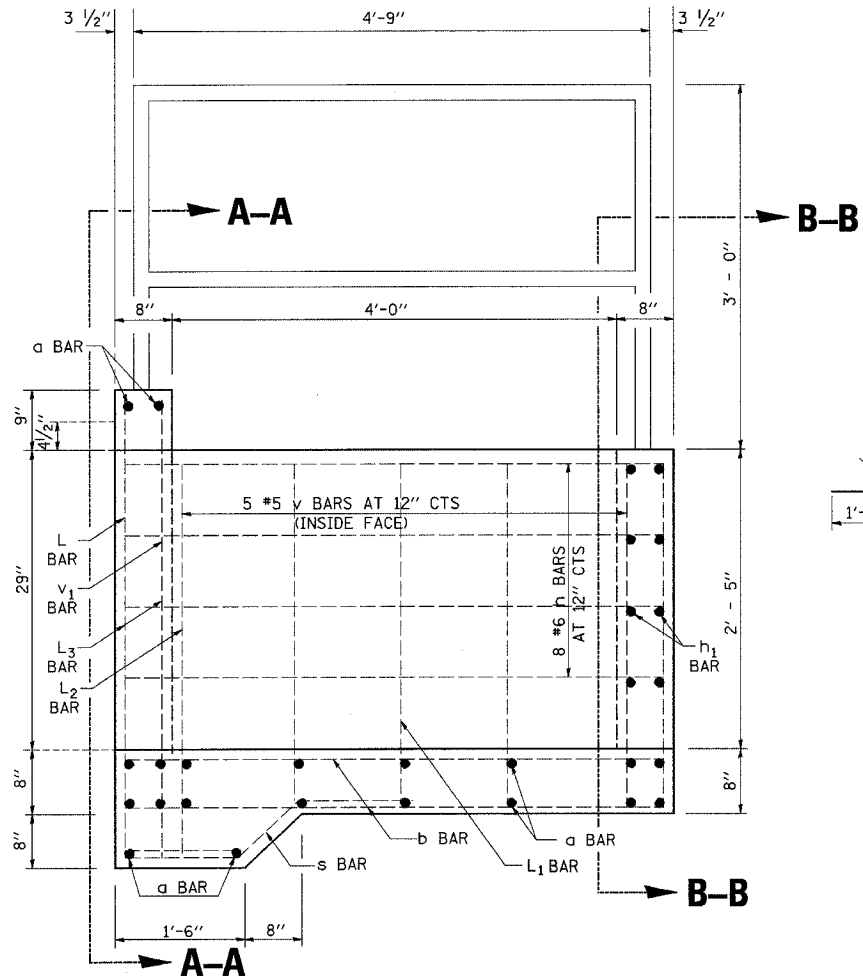
THIS WORK SHALL BE DONE ACCORDING TO THE APPLICABLE PORTION OF 503, 508, 540, AND 542 OF THE STANDARD SPECIFICATIONS.

CLASS "SI" CONCRETE SHALL BE USED. EXPOSED EDGES SHALL BE BEVELED 3/4".

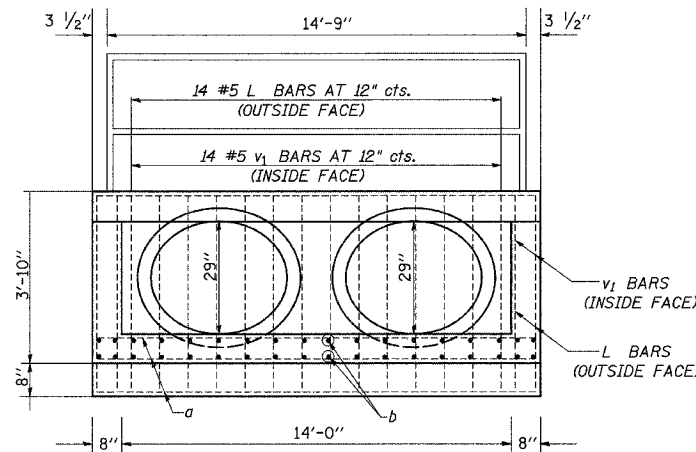
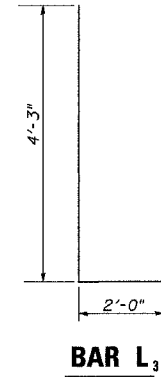
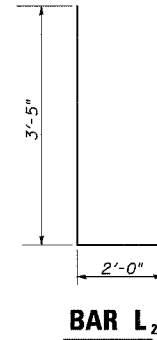
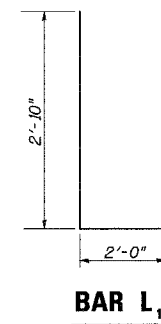
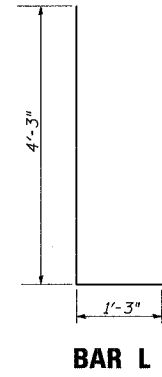
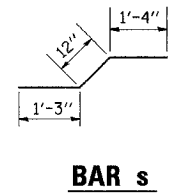
J BOLTS OR REBAR SPLICERS SHALL BE USED TO CONNECT THE PRECAST SECTIONS TO THE CAST-IN-PLACE SECTIONS.

THE CONTRACT UNIT PRICE "CU YD" FOR CLASS "SI" CONCRETE SHALL INCLUDE THE EXPANSION BOLTS, J BOLTS, REBAR SPLICERS, ANCHOR BOLTS, 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.

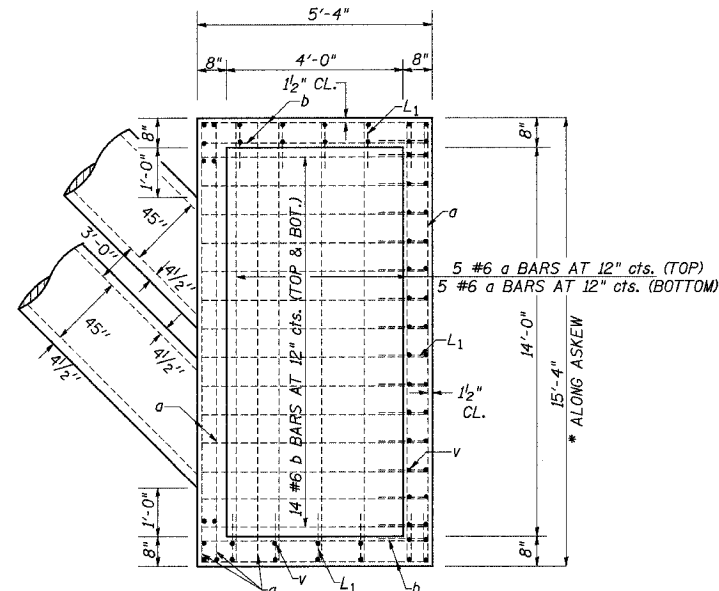
THE CONTRACT UNIT PRICE "FOOT" FOR PIPE HANDRAIL SHALL INCLUDE THE PIPE, ANCHOR RODS, ANCHOR BOLTS, BOLTS, NUTS, WASHERS, AND STEEL BASE PLATES.



PROFILE

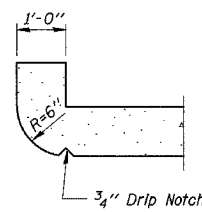


SECTION A-A

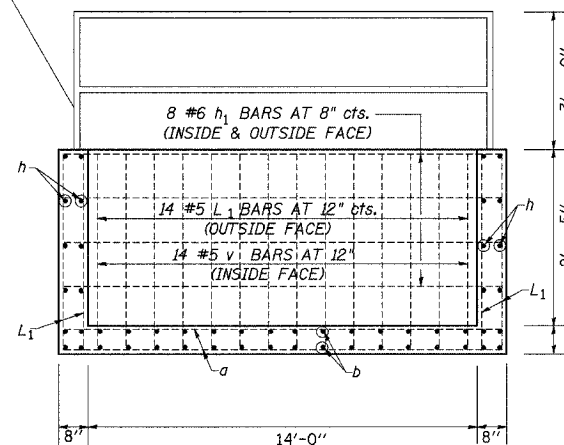


PLAN

1/2" DIA. STEEL HAND RAIL (STYLE & MANUFACTURER TO BE DETERMINED BY ENGINEER & CONTRACTOR)



SECTION THRU HEADWALL



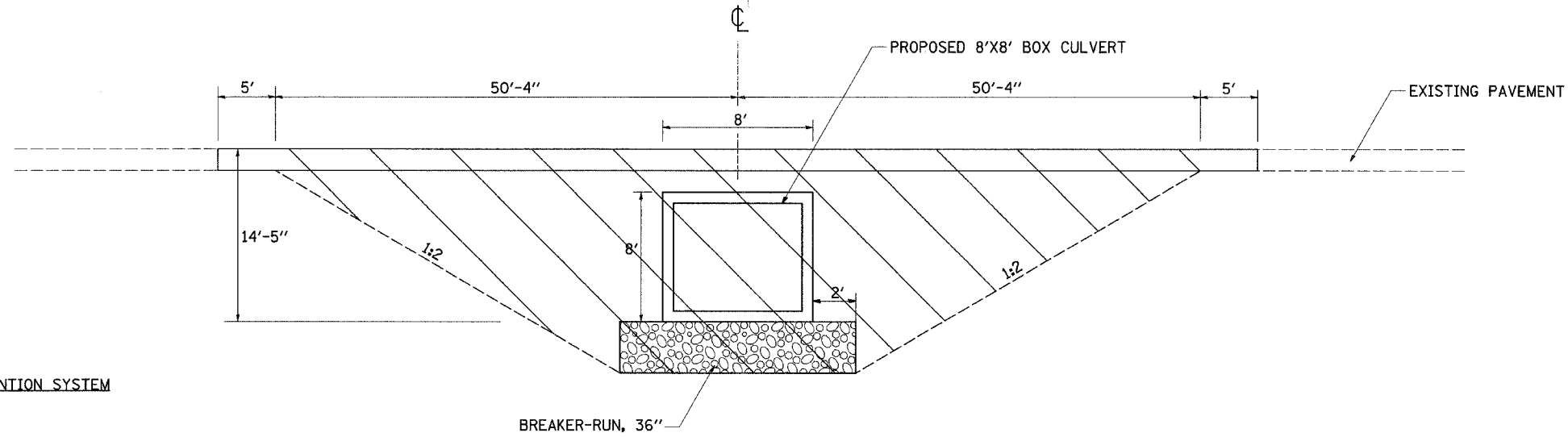
SECTION B-B

PLOT DATE = Wed Dec 10 15:22:53 2007
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 USER NAME = c:\admin

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
642	11T	CARROLL	79	49
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	

TEMPORARY SOIL RETENTION SYSTEM DETAIL

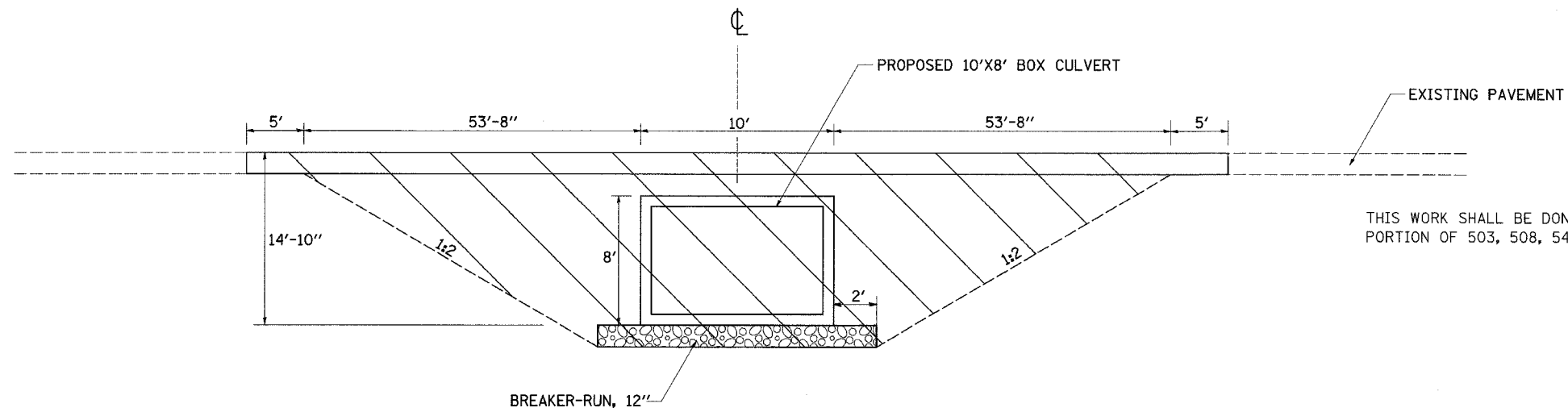
STA. 801 + 47



X0323988 TEMPORARY SOIL RETENTION SYSTEM

SQ. FT.	LOCATION
	IL 78
1035	STA.801+47
1002	STA.805+80
2037	TOTAL

STA. 805 + 80



THIS WORK SHALL BE DONE ACCORDING TO THE APPLICABLE PORTION OF 503, 508, 540, AND 542 OF THE STANDARD SPECIFICATIONS.



TEMPORARY SOIL RETENTION SYSTEM AREA

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

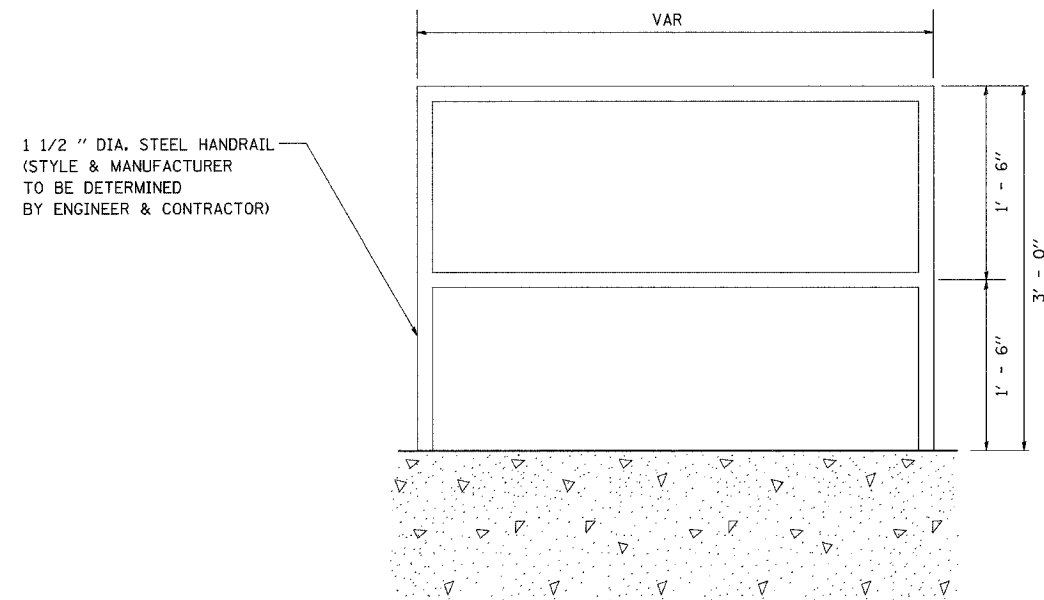
SCALE: VERT. HORIZ. DATE

DRAWN BY CHECKED BY

PLOT DATE = Wed Oct 18 15:25:34 2007
 FILE NAME = c:\projects\p200698\309688.dgn
 PLOT SCALE = 800/802 in / in
 USER NAME = c:\admin

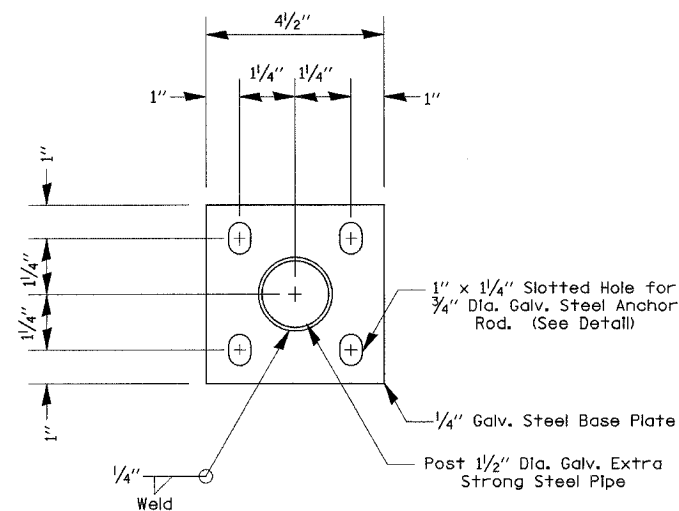
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
642	11T	CARROLL	79	50
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

PIPE HANDRAIL DETAIL



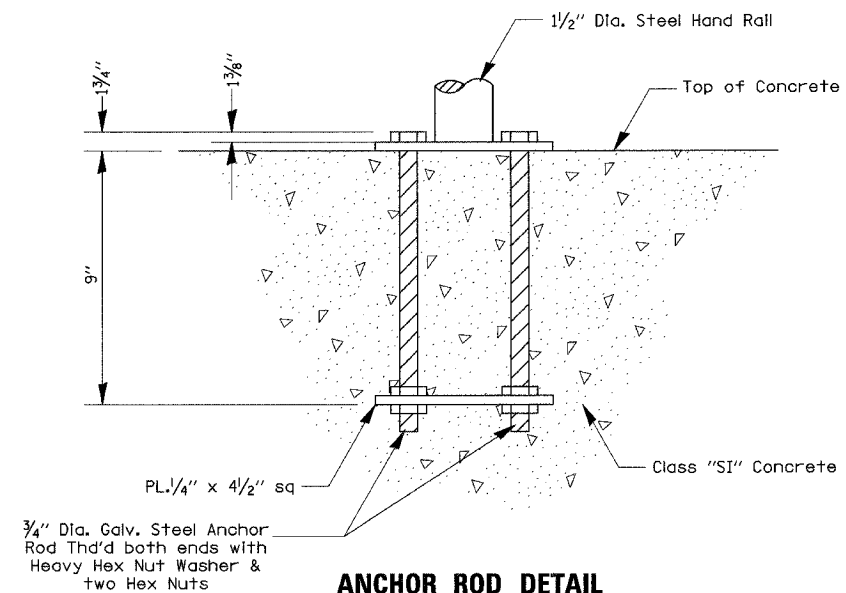
GENERAL NOTES:

- ALL HANDRAIL DIMENSIONS SHALL BE VERIFIED BY CONTRACTOR PRIOR TO FABRICATION OF PIPE HANDRAIL, BASED UPON FINAL LOCATION OF MOUNTING BOLTS.
- HANDRAIL SHALL CONFORM TO SECTION 510 WITH THE EXCEPTION THAT ALL PIPE AND CONNECTIONS SHALL BE WELDED GALVANIZED OR ALUMINUM ACCORDING TO ARTICLE 1006.27, 1006.30, OR 1006.34.
- THE DIAMETER OF THE GRIPPING SURFACE OF THE HANDRAIL SHALL BE 1-1/4" TO 1-1/2"
- ENDS OF HANDRAIL SHALL BE ROUNDED.
- HAND & SAFETY RAILS SHALL NOT ROTATE WITHIN THEIR FITTINGS.
- GRIPPING SURFACES SHALL BE UNINTERRUPTED BY NEWEL POSTS, OTHER CONSTRUCTION ELEMENTS, OR OBSTRUCTIONS.
- THE CONTRACT UNIT PRICE "FOOT" FOR PIPE HANDRAIL SHALL INCLUDE THE PIPE, ANCHOR RODS, ANCHOR BOLTS, BOLTS, NUTS, WASHERS, AND STEEL BASE PLATES.



POST BASE PLATE DETAIL

(Included in the cost of Hand or Safety Rail)



ANCHOR ROD DETAIL


(Included in the cost of Hand or Safety Rail)

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

PIPE HANDRAIL DETAIL

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
642	11T	CARROLL	79	51
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	

BORING LOGS



Illinois Department of Transportation
Division of Highways
DOT

SOIL BORING LOG

Page 1 of 1

Date 3/201

ROUTE FA 642 DESCRIPTION P92-166-00 Culvert on IL 78, 2.6 miles north of Mt. Carroll LOGGED BY C. Jenkins


SECTION 11RS-3 LOCATION Woodland Twp. - NW, SEC. 24, TWP. 25N, RNG. 4E

COUNTY Carroll DRILLING METHOD Hollow Stem Auger HAMMER TYPE Diedrich Automatic

STRUCT. NO. Station	BORING NO. Station	Offset	Ground Surface Elev. (ft)	D E P T H ft	B L O W S Qu	U L C S (tsf)	M O D E (%)	Surface Water Elev.		D E P T H ft		B L O W S Qu		U L C S (tsf)		M O D E (%)						
								90.6	89.1	87.2	79.7	(ft)	(6")	(tsf)	(%)							
2 813+60	B-1b 813+78	9.00ft LA CL	99.7					90.6	89.1	87.2	79.7											
Asphalt									VERY STIFF gray CLAY									12				
MEDIUM brown SILTY LOAM																		11	3.7	26		
																		8	B			
97.20																		77.70				
VERY STIFF brown SILTY LOAM TILL									MEDIUM tan/orange weathered LIMESTONE									3				
																		4				
95.70																		14				
																		7				
MEDIUM brown SANDY LOAM TILL									MEDIUM dirty tan very weathered LIMESTONE									8				
																		9				
93.20																		73.20				
																		17				
STIFF brown SILTY LOAM									Wash									14				
									DENSE yellow/tan weathered LIMESTONE									18				
90.70																		70.70				
																		20				
STIFF brown SILTY CLAY									VERY DENSE yellow/gray weathered LIMESTONE									100/10"				
																		PEN				
87.70																		68.20				
SOFT brown/yellow with LIMESTONE fragments																						
																		4				
																		4	0.4	15		
85.70																		3	P			
																		16				
DENSE tan/yellow weathered LIMESTONE																		16				
																		17				
83.20																						
																		16				
Same as above																		17				
																		18				
80.20																						

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
DOT

SOIL BORING LOG

Page 1 of 1

Date 3/201

ROUTE FA 642 DESCRIPTION P92-166-00 Culvert on IL 78, 2.6 miles north of Mt. Carroll LOGGED BY C. Jenkins

SECTION 11RS-3 LOCATION Woodland Twp. - NW, SEC. 24, TWP. 25N, RNG. 4E

COUNTY Carroll DRILLING METHOD Hollow Stem Auger HAMMER TYPE Diedrich Automatic

STRUCT. NO. Station	BORING NO. Station	Offset	Ground Surface Elev. (ft)	D E P T H ft	B L O W S Qu	U L C S (tsf)	M O D E (%)	Surface Water Elev.		D E P T H ft		B L O W S Qu		U L C S (tsf)		M O D E (%)						
								90.6	89.1	84.9	75.9	(ft)	(6")	(tsf)	(%)							
2 813+60	B-2b 813+41	10.00ft Rt. CL	99.9					90.6	89.1	84.9	75.9											
Asphalt									MEDIUM tan dirty weathered LIMESTONE									23				
MEDIUM brown SILTY LOAM																		22				
																		12				
97.40																		77.90				
MEDIUM brown/black SILTY LOAM									VERY STIFF gray CLAY									4				
																		6	3.1	27		
95.90																		10	B			
																		2				
STIFF brown SILTY LOAM									Same as above									4	2.1	22		
																		5	B			
93.40																		73.40				
																		6				
Same as above									VERY STIFF gray CLAY									6	4.0	25		
																		8	S			
90.90																		78.40				
																		12				
SOFT brown/gray SILTY LOAM									VERY DENSE tan/yellow weathered LIMESTONE									100/6"				
																		PEN				
87.90																		68.90				
MEDIUM tan/brown medium grained SAND																						
																		2				
																		3				
85.90																		7				
																		18				
MEDIUM tan/gray weathered LIMESTONE																		12				
																		13				
83.40																						
																		10				
Same as above																		11				
																		16				
80.90																						

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

BBS, from 137 (Rev. 8-99)


PLOT DATE = Wed Dec 18 15:24:11 2007
 FILE NAME = c:\pwork\mca\p200808\60608081.logandgn
 USER NAME = cshenabv

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

DRAWN BY _____
CHECKED BY _____

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
642	11T	CARROLL	79	52
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

BORING LOGS



Illinois Department of Transportation
Division of Highways
IDOT

SOIL BORING LOG

Page 1 of 1

Date 3801

ROUTE FA 642 DESCRIPTION P92-166-00 Culvert on IL 78, 0.5 mile north of North Old Galena Trail LOGGED BY C. Jenkins

SECTION 11RS-3 LOCATION Woodland Twp. - SW, SEC. 24, TWP. 25N, RNG. 4E

COUNTY Carroll DRILLING METHOD Hollow Stem Auger HAMMER TYPE Diedrich Automatic


STRUCT. NO. 3 Station 805+80

BORING NO. B-1c Station 806+11 Offset 6.00ft Lt CL Ground Surface Elev. 99.7 ft

Description	D	B	U	M	Surface Water Elev.	D	B	U	M
Asphalt					87.6	26			
Concrete					85.2	10			
MEDIUM brown SANDY LOAM with GRAVEL		0.6		20		11			
End of Boring 78.20									
HARD graytan SILTY CLAY	97.20	4							
		4	4.1	25					
	95.70	5	S						
STIFF tan SILTY CLAY		3							
		3	1.5	24					
	93.20	5	P						
STIFF tan SILTY LOAM		4							
		4	1.2	25					
	90.70	6	S						
MEDIUM tan SILTY LOAM with ORGANICS and a GRAVEL lens		6							
		6	0.7	26					
	87.70	4	P						
DENSE tan weathered LIMESTONE		13							
		18							
	85.70	16							
VERY DENSE tan weathered LIMESTONE		6							
		26							
	83.20	30							
Same as above		36							
		46							
	80.70	35							
	-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
IDOT

SOIL BORING LOG

Page 1 of 1

Date 3801

ROUTE FA 642 DESCRIPTION P92-166-00 Culvert on IL 78, 0.5 mile north of North Old Galena Trail LOGGED BY C. Jenkins

SECTION 11RS-3 LOCATION Woodland Twp. - SW, SEC. 24, TWP. 25N, RNG. 4E

COUNTY Carroll DRILLING METHOD Hollow Stem Auger HAMMER TYPE Diedrich Automatic

STRUCT. NO. 3 Station 805+80

BORING NO. B-2c Station 805+44 Offset 10.00ft Rt CL Ground Surface Elev. 99.8 ft

Description	D	B	U	M	Surface Water Elev.	D	B	U	M
Asphalt					87.6	4			
MEDIUM browtan GRAVEL					85.2	8	2.9		26
						12	B		
End of Boring 77.80									
STIFF tan SILTY CLAY with some GRAVEL	97.30	3							
		3	1.4	24					
	95.80	5	P						
STIFF blue tan SILTY CLAY		2							
		2	1.2	26					
	93.30	5	P						
MEDIUM graygreen SILTY CLAY with some GRAVEL		2							
		2	0.7	29					
	90.30	3	S						
MEDIUM dirty brown weathered LIMESTONE		3							
		2							
	88.30	12							
Same as above		6							
		5							
	85.80	8							
DENSE tan brown dirty weathered LIMESTONE		12							
		20							
	83.30	18							
MEDIUM tan brown weathered LIMESTONE		6							
		7							
	80.30	9							
	-20								

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

BBS, from 137 (Rev. 8-99)

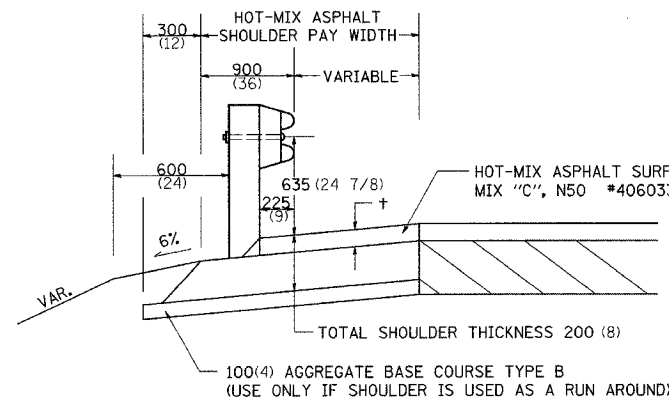
PLOT DATE = Wed Oct 18 15:24:12 2007
 PLOT SCALE = 1/8" = 20' (Horizontal)
 PLOT SCALE = 1/8" = 20' (Vertical)
 USER NAME = dshimombr

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

BORING LOGS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
642	11T	CARROLL	79	54
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

DETAIL OF HOT-MIX ASPHALT SHOULDER AT GUARD RAIL



+ = SEE TYPICAL SECTIONS FOR THICKNESS

GENERAL NOTES

THE TOP LIFT SHALL NOT BE PLACED BEHIND THE GUARDRAIL POSTS. WHEN PLACING THE TOP LIFT THE RAIL MUST BE REMOVED FROM THE POSTS. THE POST SHALL NOT BE REMOVED.

THE HEIGHT OF THE GUARD RAIL SHALL BE SET 525 (21) FROM THE FINISHED SURFACE.

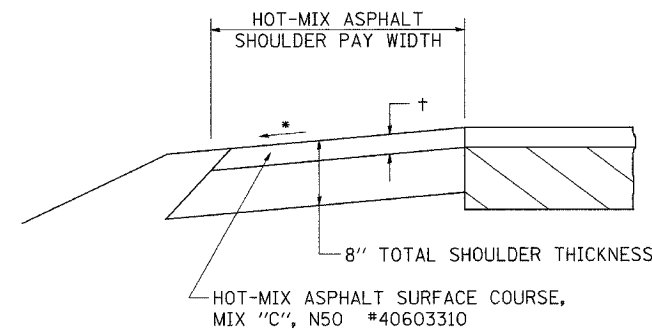
THE HOT-MIX ASPHALT SHOULDER SHALL BE CONSTRUCTED IN ACCORDANCE WITH SECTION 482 EXCEPT THE TOP LIFT SHALL BE HOT-MIX ASPHALT SURFACE COURSE, MIXTURE C, N50. THE WORK WILL BE PAID FOR AT THE CONTRACT UNIT PRICE PER TON FOR HOT-MIX ASPHALT SURFACE COURSE, MIXTURE "C", N50 AND SQUARE METER (SQUARE YARD) FOR HOT-MIX ASPHALT SHOULDERS OF THE THICKNESS SPECIFIED. THE REMOVAL & REINSTALLATION OF THE GUARDRAIL WILL BE INCLUDED IN THE COST OF THE HOT-MIX ASPHALT SURFACE COURSE, MIXTURE C, N50.

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

DETAIL OF HOT-MIX ASPHALT SHOULDER AT GUARD RAIL 23.4

REVISED 10-06-06

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.

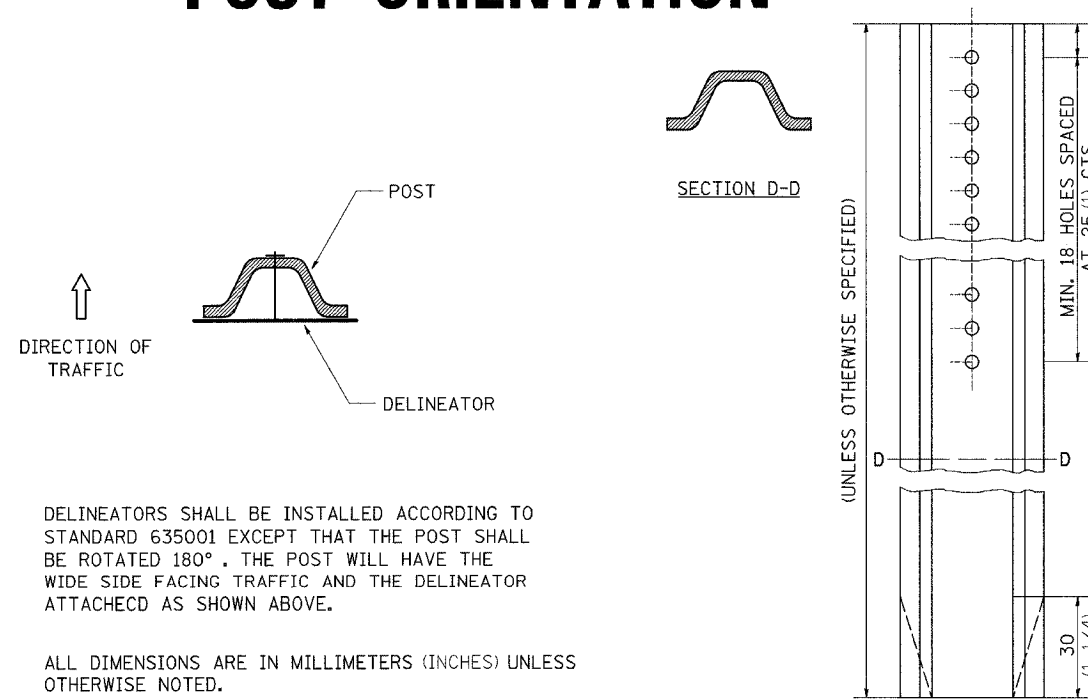
REMOVAL OF MATERIAL FOR PLACEMENT OF THE HOT-MIX ASPHALT SHOULDER TO BE PAID FOR IN UNITS FOR EXCAVATING AND GRADING EXISTING SHOULDERS OR IN CUBIC YARDS FOR EARTH EXCAVATION OR EARTH EXCAVATION WIDENING.

* 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

DELINEATOR AND POST ORIENTATION



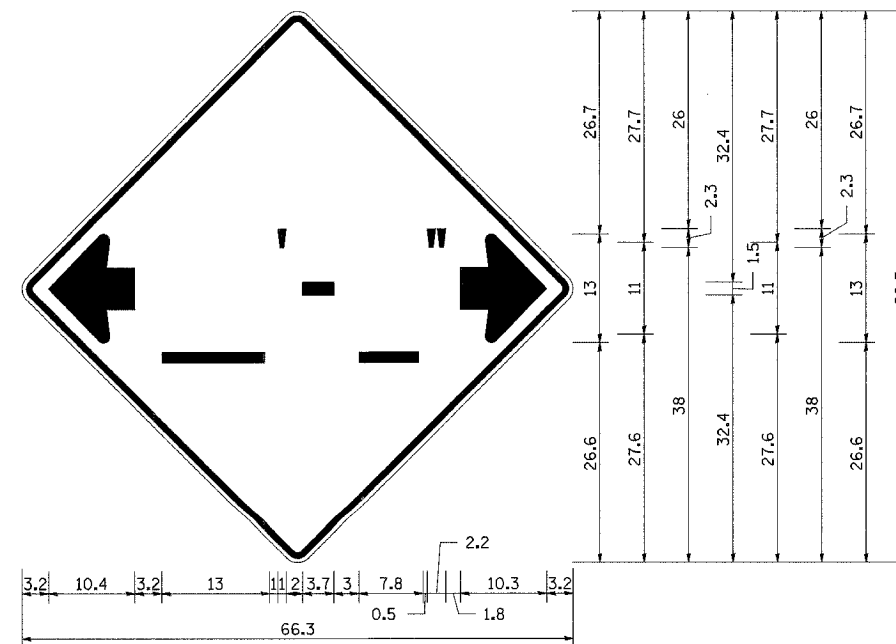
DELINEATORS SHALL BE INSTALLED ACCORDING TO STANDARD 635001 EXCEPT THAT THE POST SHALL BE ROTATED 180°. THE POST WILL HAVE THE WIDE SIDE FACING TRAFFIC AND THE DELINEATOR ATTACHED AS SHOWN ABOVE.

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

DELINEATOR AND POST ORIENTATION 37.4

REVISED 1-31-00

INFORMATIONAL WARNING SIGN (FOR NARROW TRAVEL LANES)



NOTES

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

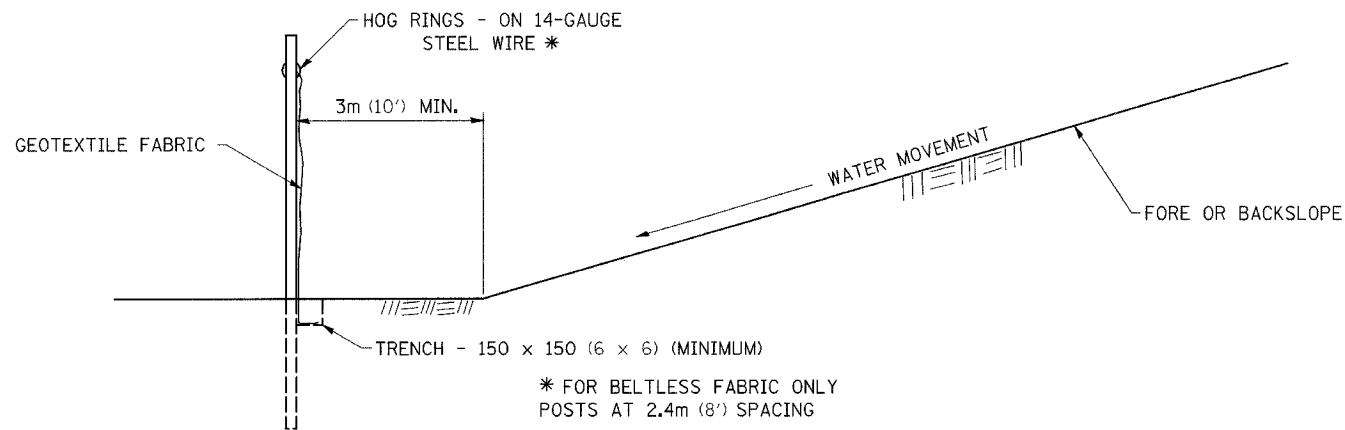
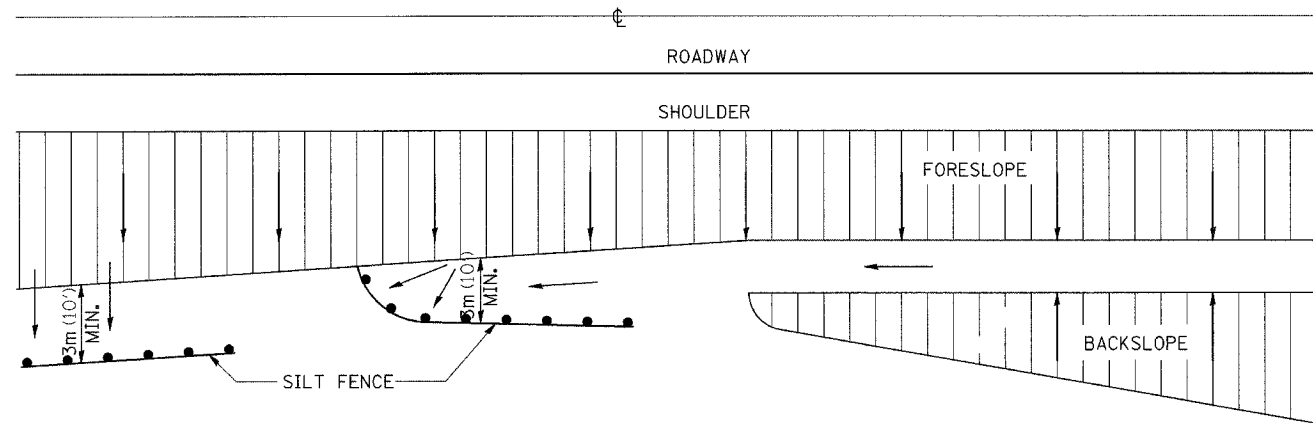
All work to furnish and install these signs shall be included in the cost of the Traffic Control Standards and shall not be paid for separately.

ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE NOTED.

INFORMATIONAL WARNING SIGN (FOR NARROW TRAVEL LANES) 39.4

REVISED 6-29-05

EROSION CONTROL DETAILS FOR SILT FENCE

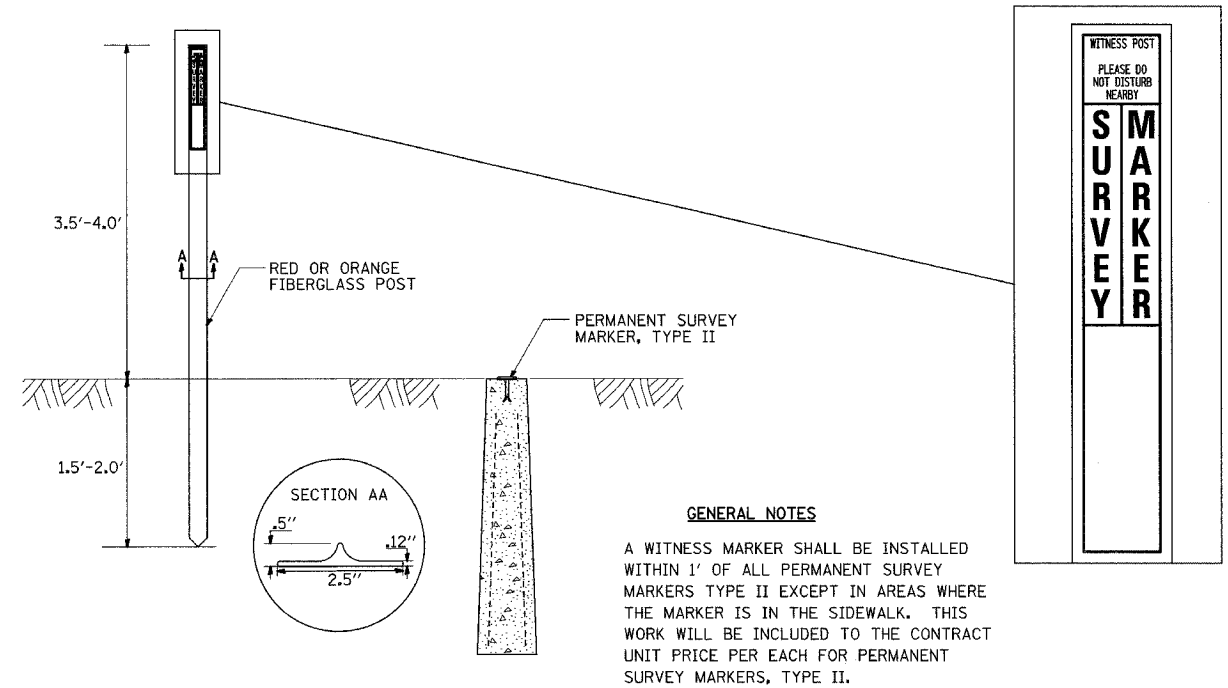


DETAILS OF SILT FENCE

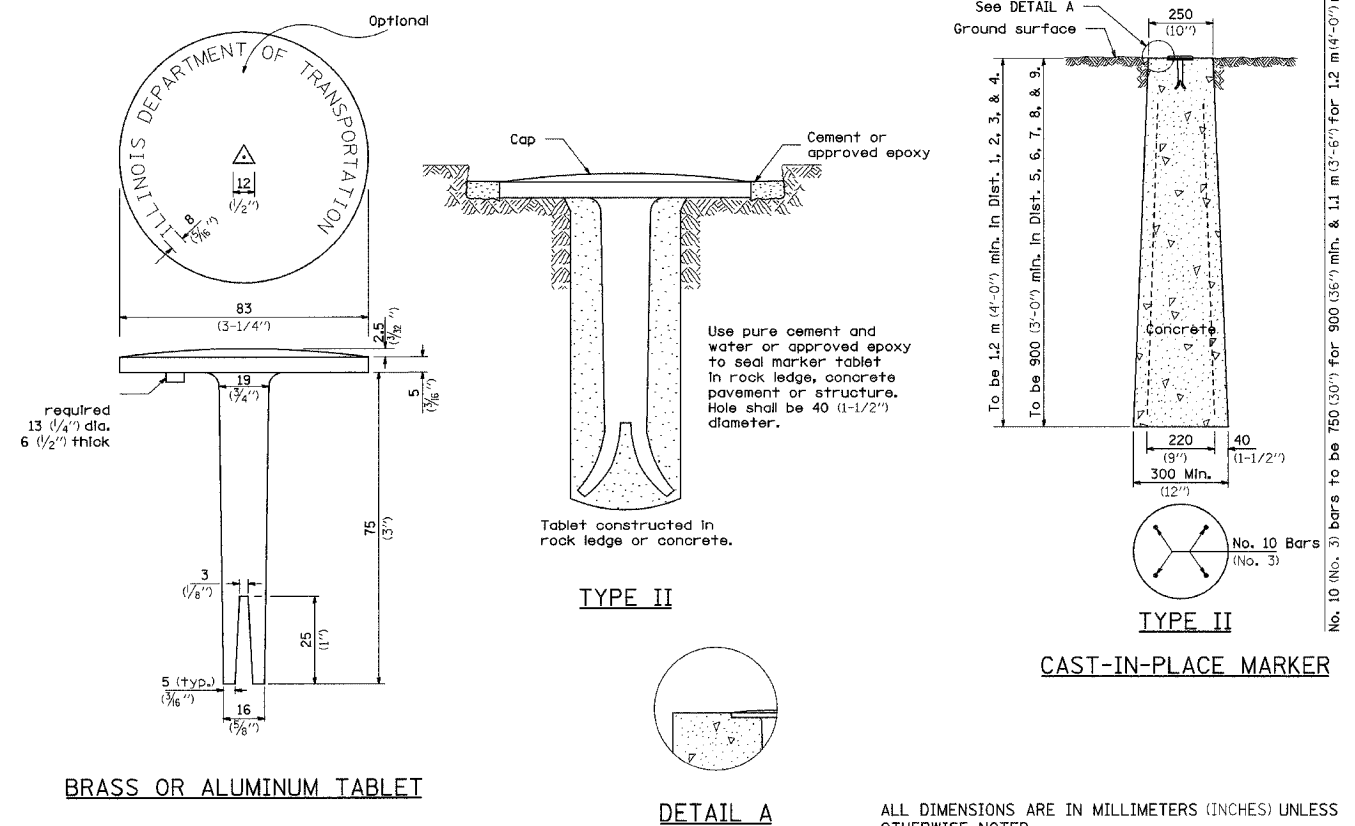
ALL DIMENSIONS ARE IN MILLIMETERS (INCHES) UNLESS OTHERWISE NOTED.

WITNESS MARKER FOR PERMANENT SURVEY MARKERS, TYPE II

CONTRACT NO. 64D82			
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS
642	11T	CARROLL	79
SHEET NO.		56	
STA.		TO STA.	
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT	



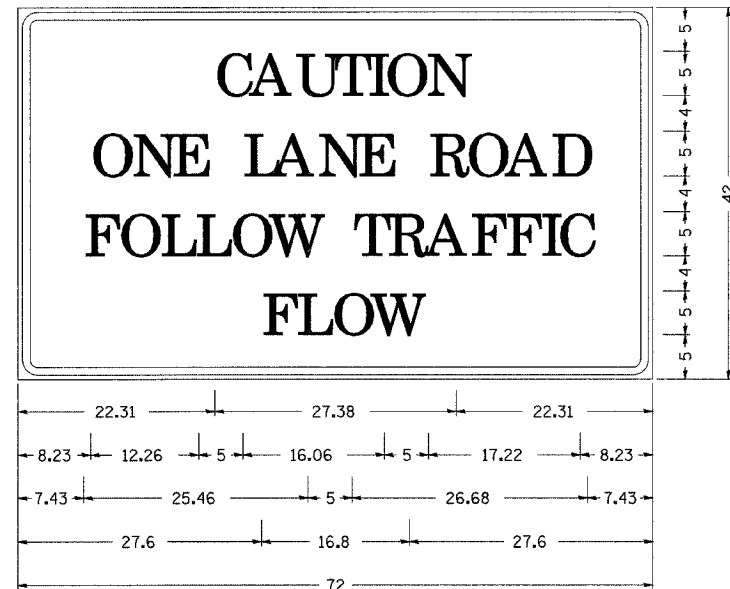
PERMANENT SURVEY MARKERS, TYPE II



PLOT DATE = Wed Oct 19 15:25:32 2007
FILE NAME = c:\projects\1230608\c610808p1.dgn
PLOT SCALE = 1:1
REFERENCE = AREA

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
642	11T	CARROLL	79	57
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

ENTRANCE SIGN FOR USE WITH TEMPORARY SIGNALS



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

Table Of Widths And Spaces

22.31	C	3.36	0.62	A	4.18	0.94	U	3.36	0.94	T	3.04	0.94	I	0.78	1.17	O	3.52	1.17	N	3.36	22.31
8.23	O	3.51	1.17	N	3.36	1.18	E	3.04													
	L	3.05	0.31	A	4.18	0.94	N	3.36	1.17	E	3.05										
	R	3.36	0.93	O	3.52	0.94	A	4.18	0.93	D	3.36	8.23									
7.43	F	3.04	0.94	O	3.52	1.17	L	3.04	0.94	L	3.05	0.94	O	3.51	0.94	W	4.37				
	T	3.05	0.94	R	3.36	0.94	A	4.18	0.93	F	3.05	0.94	F	3.04	0.94	I	0.78	1.18	C	3.35	7.43
27.60	F	3.05	0.94	L	3.04	0.94	O	3.52	0.93	W	4.38	27.60									

GENERAL NOTES

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

ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE NOTED.

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

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

PLOT DATE = Wed Oct 19 15:55:52 2007
 FILE NAME = c:\pwork\jens\120808\120808.dgn
 PLOT SIZE = 11x17 in / IN
 REFERENCE = #REF#

STORM WATER POLLUTION PREVENTION PLAN EROSION CONTROL PLAN

CONTRACT NO. 64D82				
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
642	11T	CARROLL	79	58
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

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

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

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

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

SITE DESCRIPTION

DESCRIPTION OF CONSTRUCTION ACTIVITY:

THIS PROJECT CONSISTS OF REMOVING AND REPLACING 5 CULVERTS

DESCRIPTION OF INTENDED SEQUENCE OF ACTIVITIES:

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

TOTAL CONSTRUCTION SITE (CONSTRUCTION LIMIT TO CONSTRUCTION LIMIT) 3.88 ACRES

PROPOSED R.O.W (TOTAL PARCEL AREA) 1.78 ACRES

DISTURBED BY EXCAVATION (E.O.P TO CONSTRUCTION LIMIT) 2.92 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

EAST PLUM RIVER

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 RESEEDDED.

PLOT DATE = Wed Oct 18 15:25:33 2006
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 REFERENCE = ARET

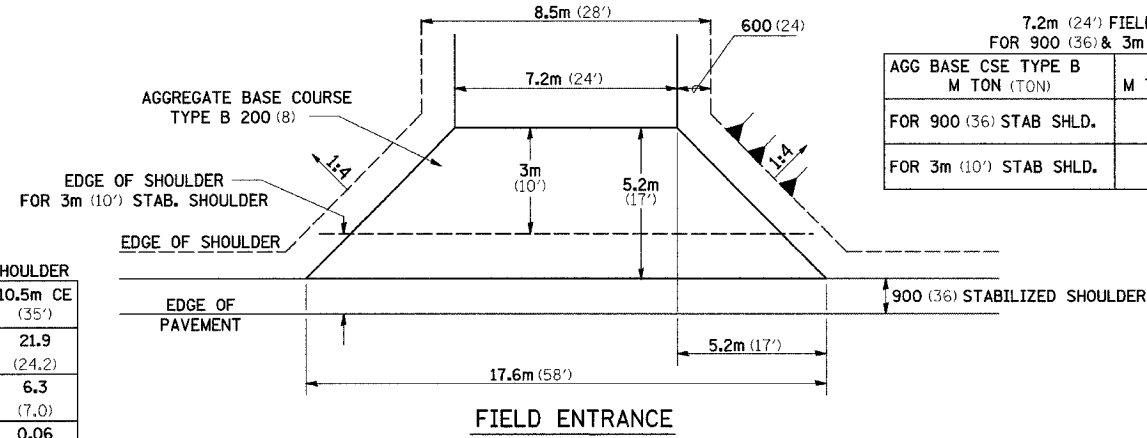
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
642	11T	CARROLL	79	59
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

HOT-MIX ASPHALT APPROACHES & MAILBOX TURNOUTS

7.2m (24') FIELD ENTRANCE FOR 900 (36) & 3m (10') SHOULDERS

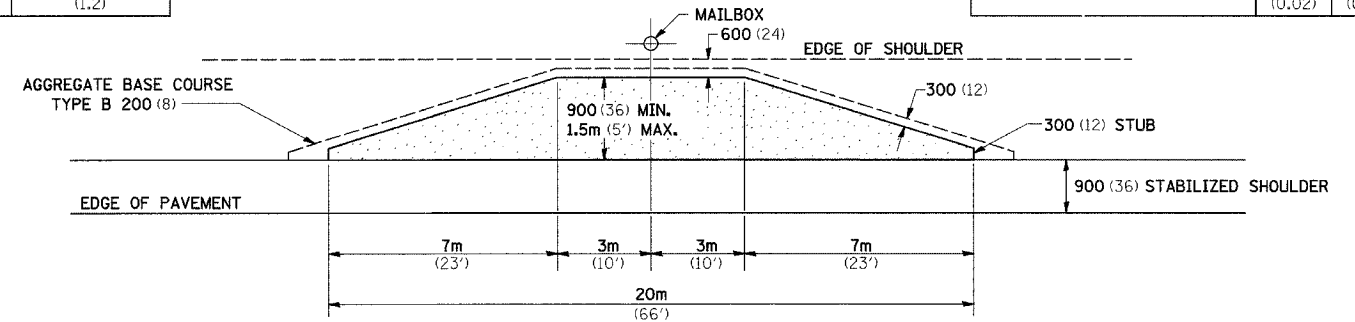
AGG BASE CSE TYPE B M TON (TON)	APRON M TON (TON)	PER METER (FOOT) ADD. RUN
FOR 900 (36) STAB SHLD.	31.3 (35.3)	3.5 (1.2)
FOR 3m (10') STAB SHLD.	14.9 (17.2)	3.5 (1.2)

	900 (36)	1.5m (5')
AGG BASE CSE T-B (TON)	10.7 (11.8)	14.4 (15.9)
INC BIT SURF 50 (2) (TON)	2.2 (2.4)	3.4 (3.8)
BIT PRIME COAT (TON)	0.02 (0.02)	0.04 (0.04)



PE & CE FOR 3m (10') STAB. SHOULDER

	3.6m PE (12')	10.5m CE (35')
AGG BASE CSE (TON)	11.4 (12.6)	21.9 (24.2)
INC HMA SURF (TON)	3.1 (3.4)	6.3 (7.0)
PRIME (TON)	0.04 (0.04)	0.06 (0.07)

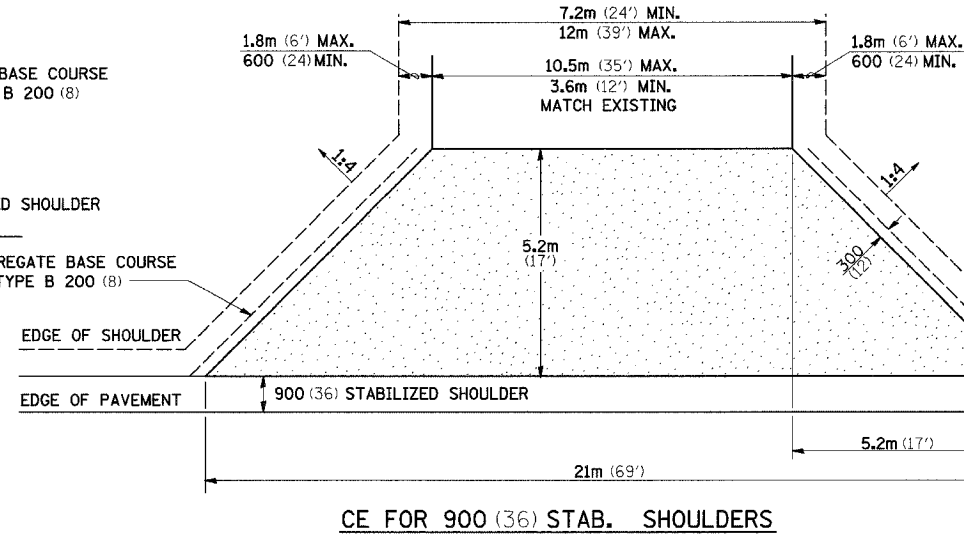
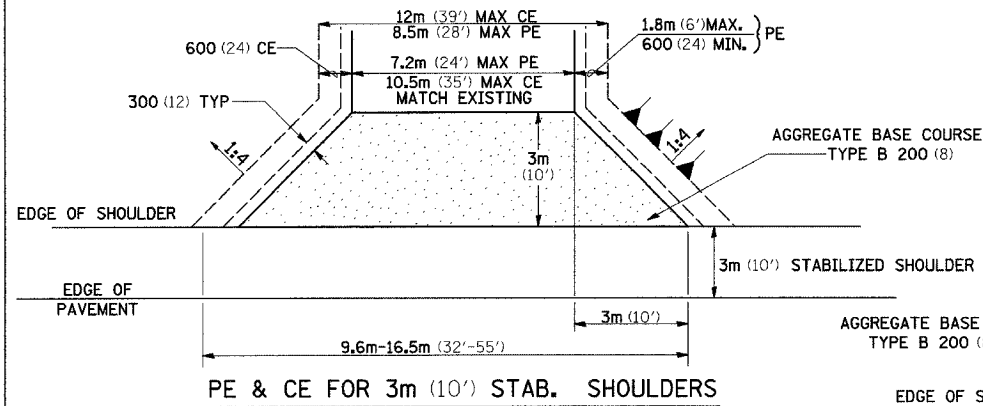


10.5m (35') COMMERCIAL ENTRANCE FOR 900 (36) STAB. SHOULDER

	900 (36)	1.5m (5')	PER METER ENTR (FOOT)
AGG BASE CSE T-B (TON)	47.4 (52.2)	48.7 (53.7)	5.7 (1.9)
INC HMA SURF 50 (2) (TON)	13.4 (14.8)	14.0 (15.4)	1.6 (0.55)
BIT PRIME COAT (TON)	0.14 (0.15)	0.15 (0.16)	0.018 (0.006)

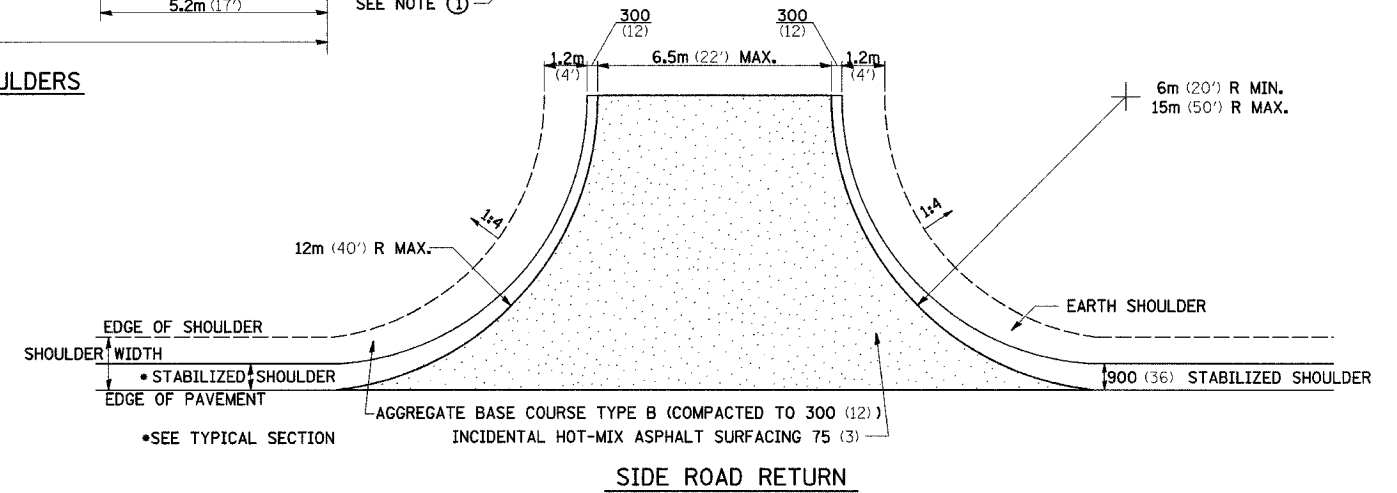
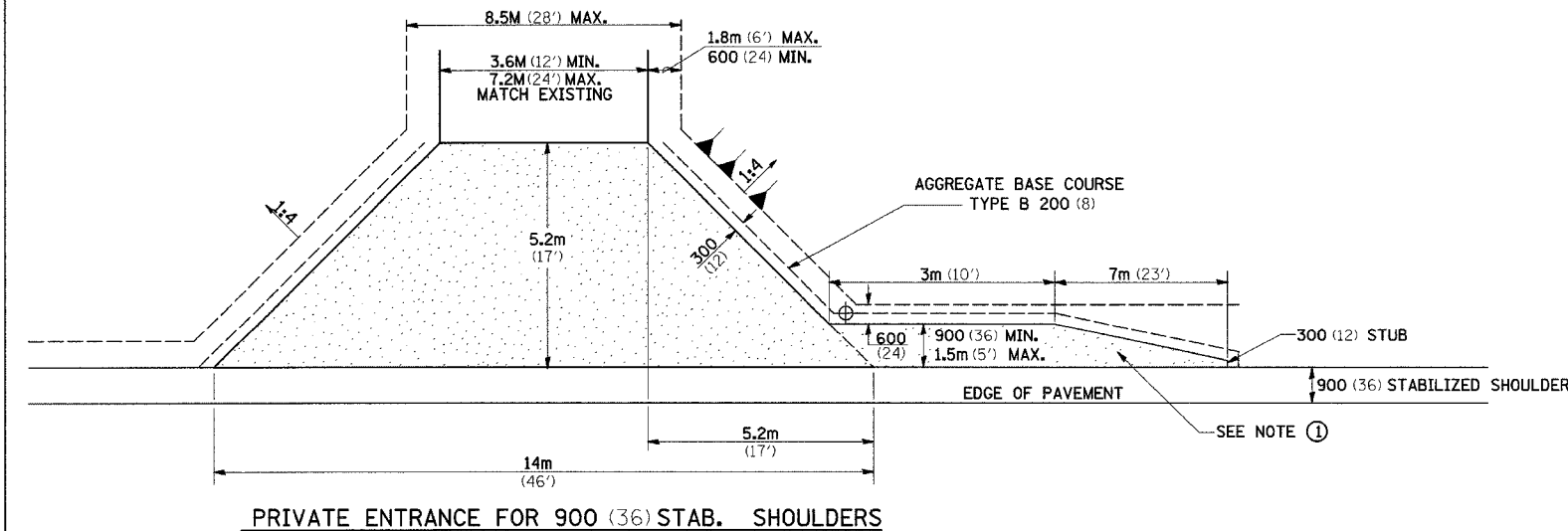
NOTE

- ALL ENTRANCES TO BE CONSTRUCTED WITH AN 8" AGGREGATE BASE COURSE, TYPE B AND WITH A 2" INCIDENTAL HOT-MIX ASPHALT SURFACING, UNLESS OTHERWISE NOTED.
- TURNOUTS ARE TO BE CONSTRUCTED ON THE APPROACH SIDE OF ALL PE & CE REGARDLESS IF A MAILBOX IS PRESENT.
- ALL PE & CE ARE TO BE SURFACED TO RIGHT OF WAY LINE. AREA BEHIND RIGHT OF WAY SHALL MATCH EXISTING SURFACE.
- FE ARE TO BE AGGREGATE TO RIGHT OF WAY OR TOUCH DOWN WHICH EVER IS GREATER.
- QUANTITIES SHOWN ARE FOR NEW CONSTRUCTION.
- ALL DIMENSIONS ARE IN MILLIMETERS (INCHES) UNLESS OTHERWISE NOTED.



3.6m (12') PRIVATE ENTRANCE FOR 900 (36) STAB. SHOULDER

	900 (36)	1.5m (5')	PER METER ENTR (FOOT)
AGG BASE CSE (TON)	29.4 (32.4)	30.8 (33.9)	0.64 (0.7)
INC HMA SURF 50 (2) (TON)	7.8 (8.6)	8.4 (9.3)	0.17 (0.19)
BIT PRIME COAT (TON)	0.08 (0.09)	0.09 (0.10)	0.006 (0.002)



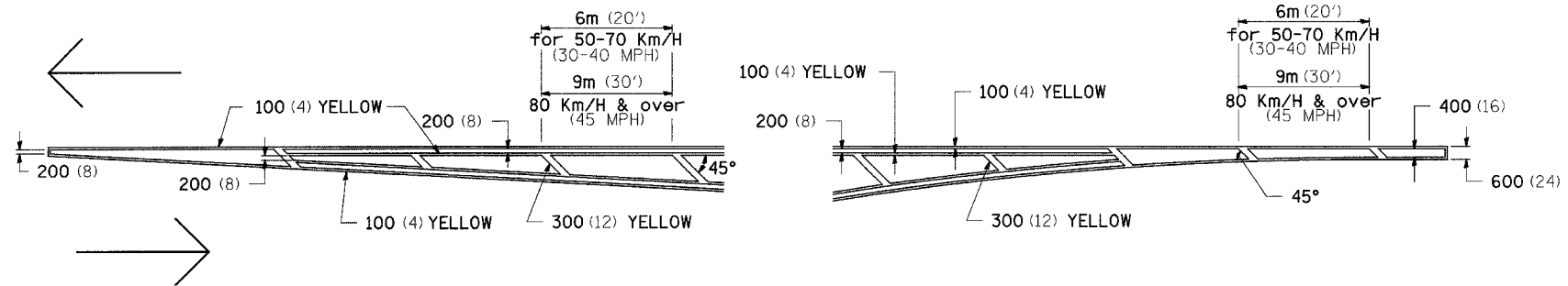
	6m (20') RADIUS			9m (30') RADIUS			12m (40') RADIUS		
	5.5m (18')	6m (20')	6.5m (22')	5.5m (18')	6m (20')	6.5m (22')	5.5m (18')	6m (20')	6.5m (22')
AGG BASE CSE T-B (TON)	20 (22.1)	21.6 (23.8)	23.1 (25.5)	37 (40.8)	39.5 (43.5)	42 (46.3)	57.9 (63.8)	61.3 (67.6)	64.7 (71.3)
INC HMA SURF 75 (3) (TON)	5.5 (6.1)	6.2 (6.8)	6.6 (7.25)	10.5 (11.6)	11.2 (12.4)	12.1 (13.3)	16.7 (18.4)	17.7 (19.5)	18.7 (20.6)
BIT PRIME CSE T-B (TON)	0.05 (0.06)	0.06 (0.07)	0.06 (0.07)	0.11 (0.12)	0.11 (0.12)	0.12 (0.13)	0.16 (0.18)	0.18 (0.20)	0.19 (0.21)

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

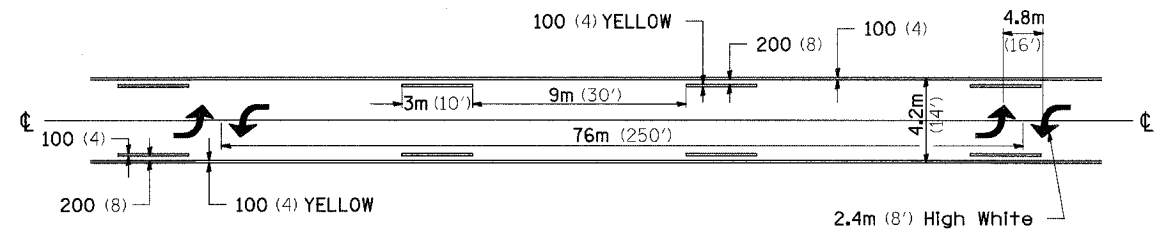
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
642	11T	CARROLL	79	60
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

TYPICAL PAVEMENT MARKINGS

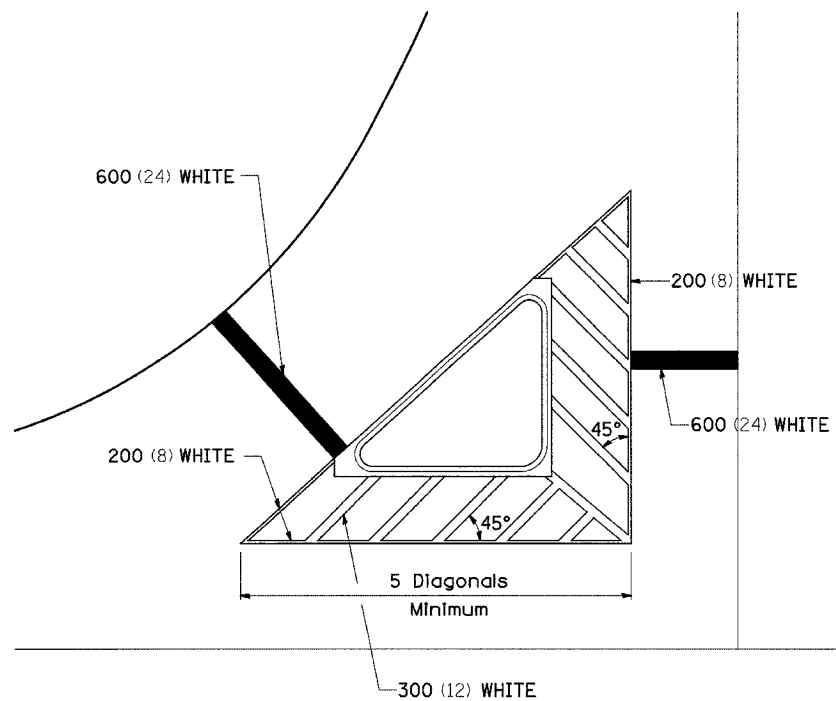
TYPICAL PAVEMENT MARKING FOR FLUSH MEDIAN AT LEFT TURN LANE



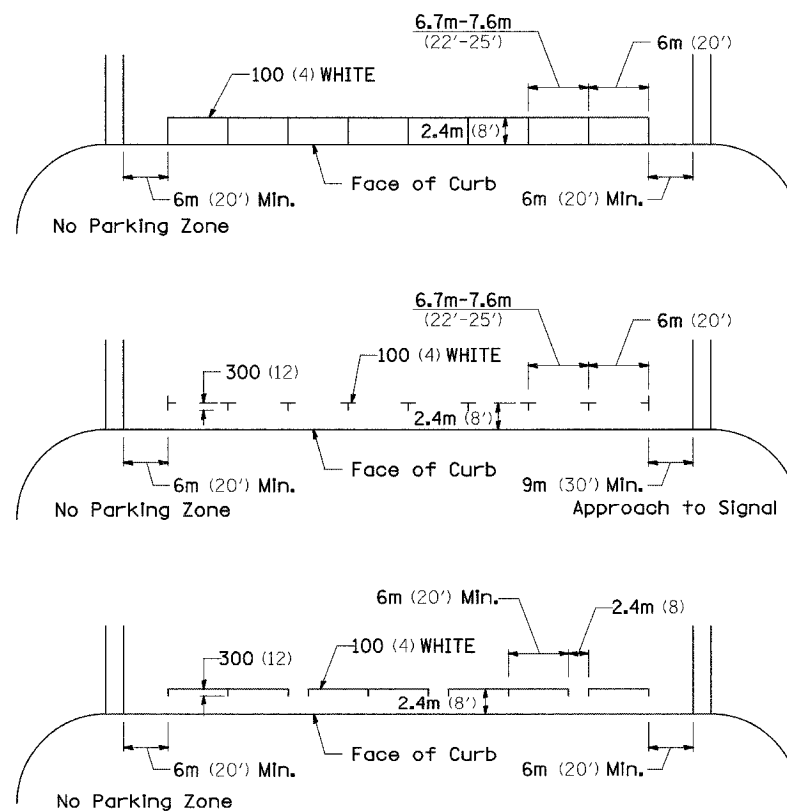
MEDIAN PAVEMENT MARKING



TYPICAL ISLAND OFFSET SHOULDER WIDTH



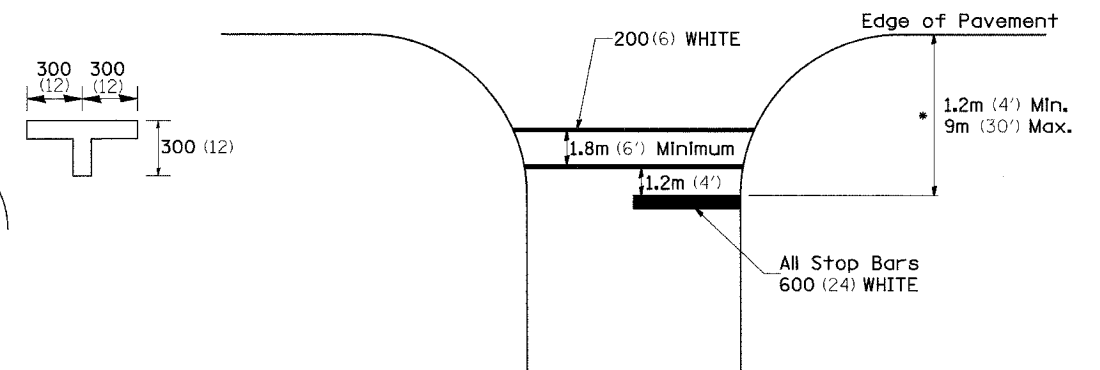
TYPICAL PARKING SPACING



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

STANDARD CROSSWALK MARKING

See Schedules for Locations



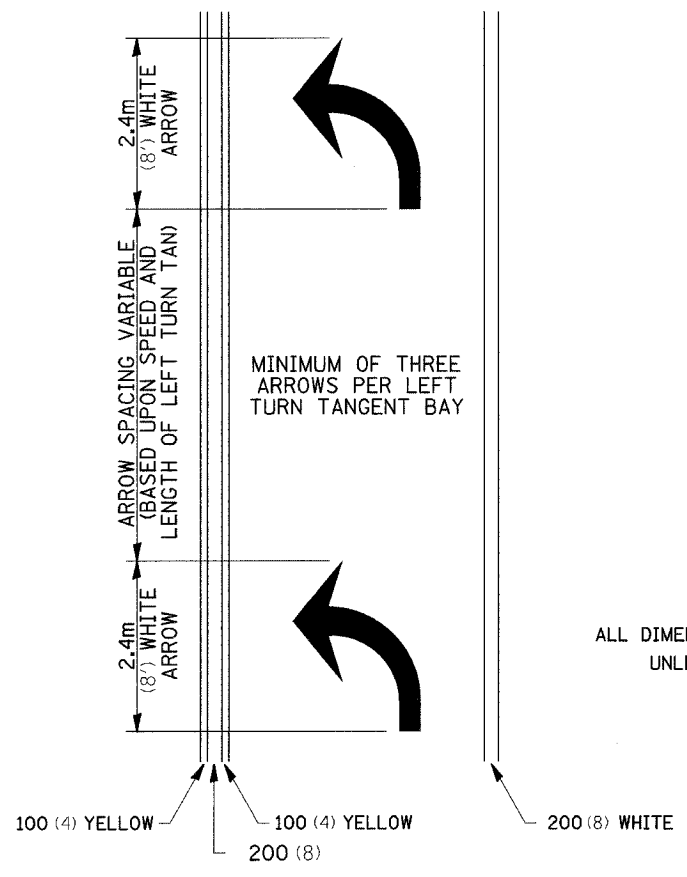
• Distance to the nearest edge of the intersecting roadway in the absence of a marked crosswalk.

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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 PAVEMENT MARKINGS

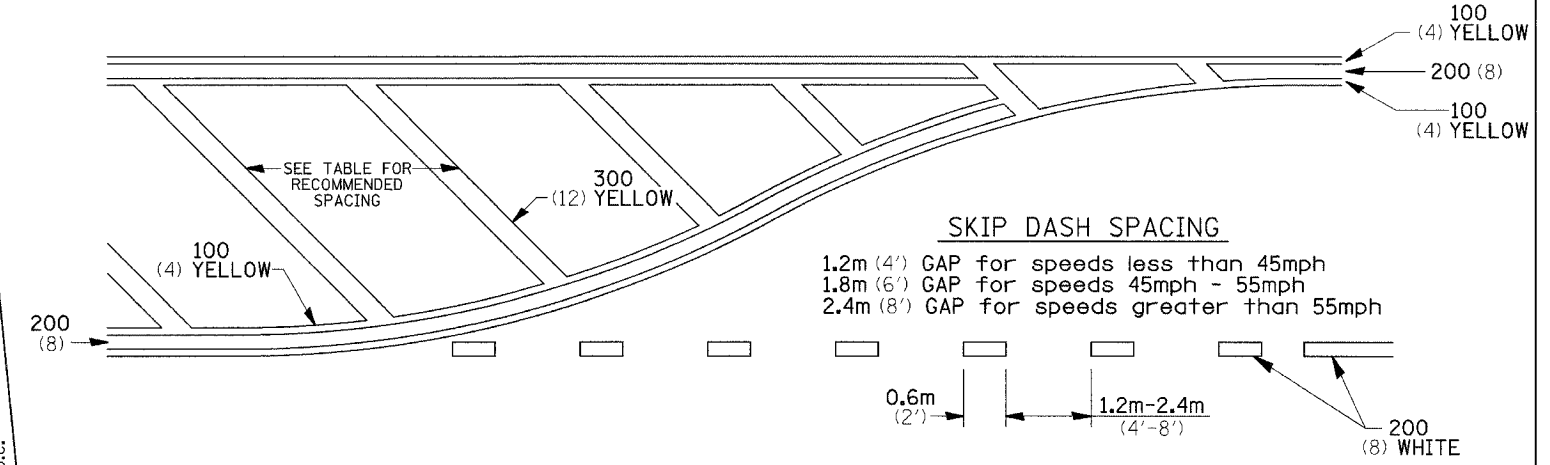
ARROW LAYOUT



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

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

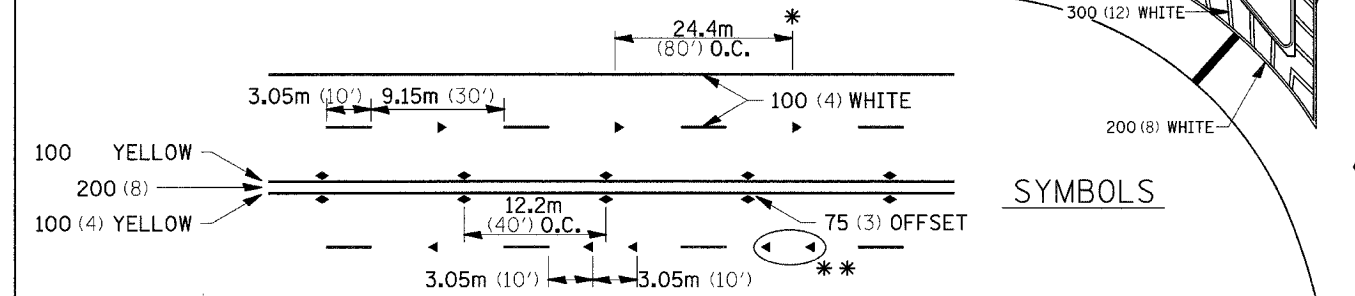
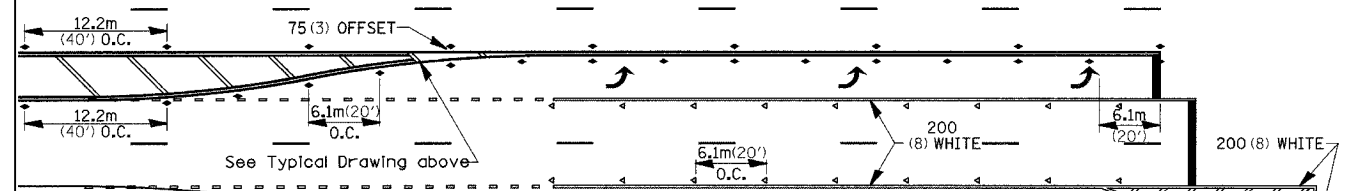
TYPICAL PAVEMENT MARKING FOR FLUSH MEDIAN



RECOMMENDED SPACING BETWEEN DIAGONALS (IN FEET)

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

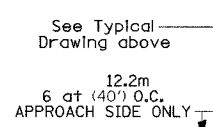
NOTE: If the spacing recommended in the Table does not permit at least five diagonal lines in the area being marked, the spacing from the next lowest speed range should be used. The recommended spacing is measured parallel to the pavement center line.



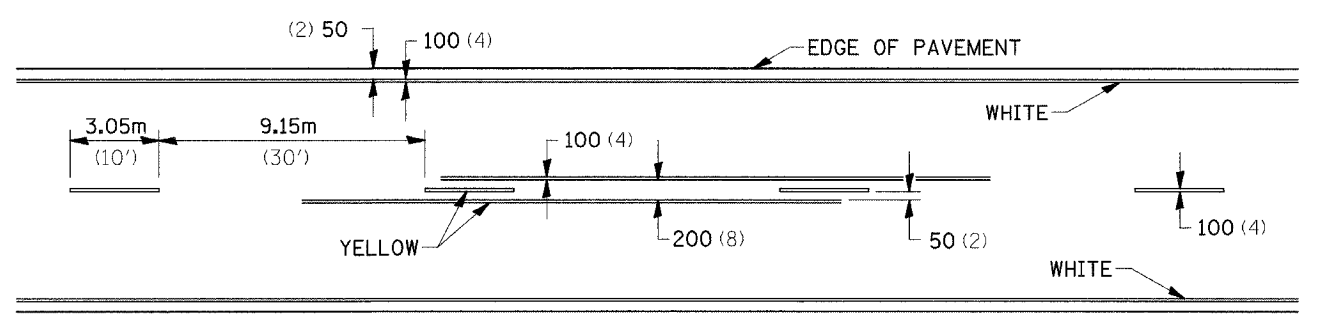
- * REDUCE TO 12.2m (40') O.C. ON CURVES WHERE ADVISORY SPEEDS ARE 15Km/H (10MPH) LOWER THAN POSTED SPEEDS.
- ** USE DOUBLE MARKERS WHEN ADT ≥ 25,000

MULTI-LANE / UNDIVIDED

SYMBOLS



TYPICAL PAVEMENT MARKING FOR TWO LANE SECTION - NO PASSING ZONES



PLOT DATE = Wed Oct 18 15:25:33 2006
 FILE NAME = c:\projects\p2006\64d82\64d82s2.dgn
 PLOT SCALE = 600/2000 in / in
 REFERENCE = WREF*

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
642	11T	CARROLL	79	62
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.

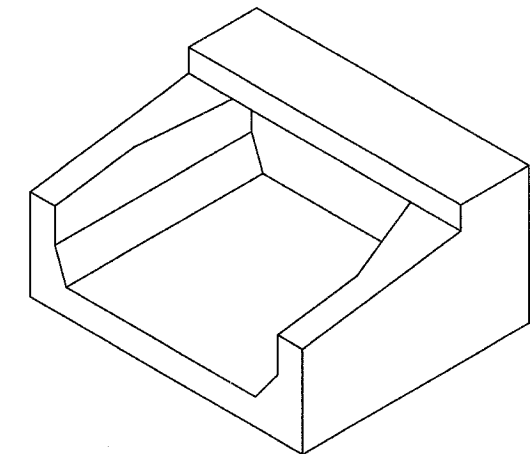
THE EXCAVATION AND BACKFILLING FOR PRECAST CONCRETE BOX CULVERT SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF SECTION 502 OF THE STANDARD SPECIFICATIONS EXCEPT A LAYER OF POROUS GRANULAR BACKFILL, AT LEAST 150 (6") IN THICKNESS, SHALL BE PLACED BELOW THE ELEVATION OF THE BOTTOM OF THE BOX. THE POROUS 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.

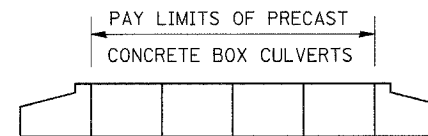
THE PRECAST CONCRETE BOX CULVERT EXCLUDING END SECTIONS WILL BE MEASURED ON A METER (LINEAL FOOT) BASIC. THE PRECAST BOX CULVERT WILL BE PAID FOR AT THE CONTRACT UNIT PRICE PER METER (LINEAL FOOT) FOR PRECAST CONCRETE BOX CULVERT, OF THE SIZE SPECIFIED, AND INCLUDES POROUS GRANULAR BACKFILL EXCAVATION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

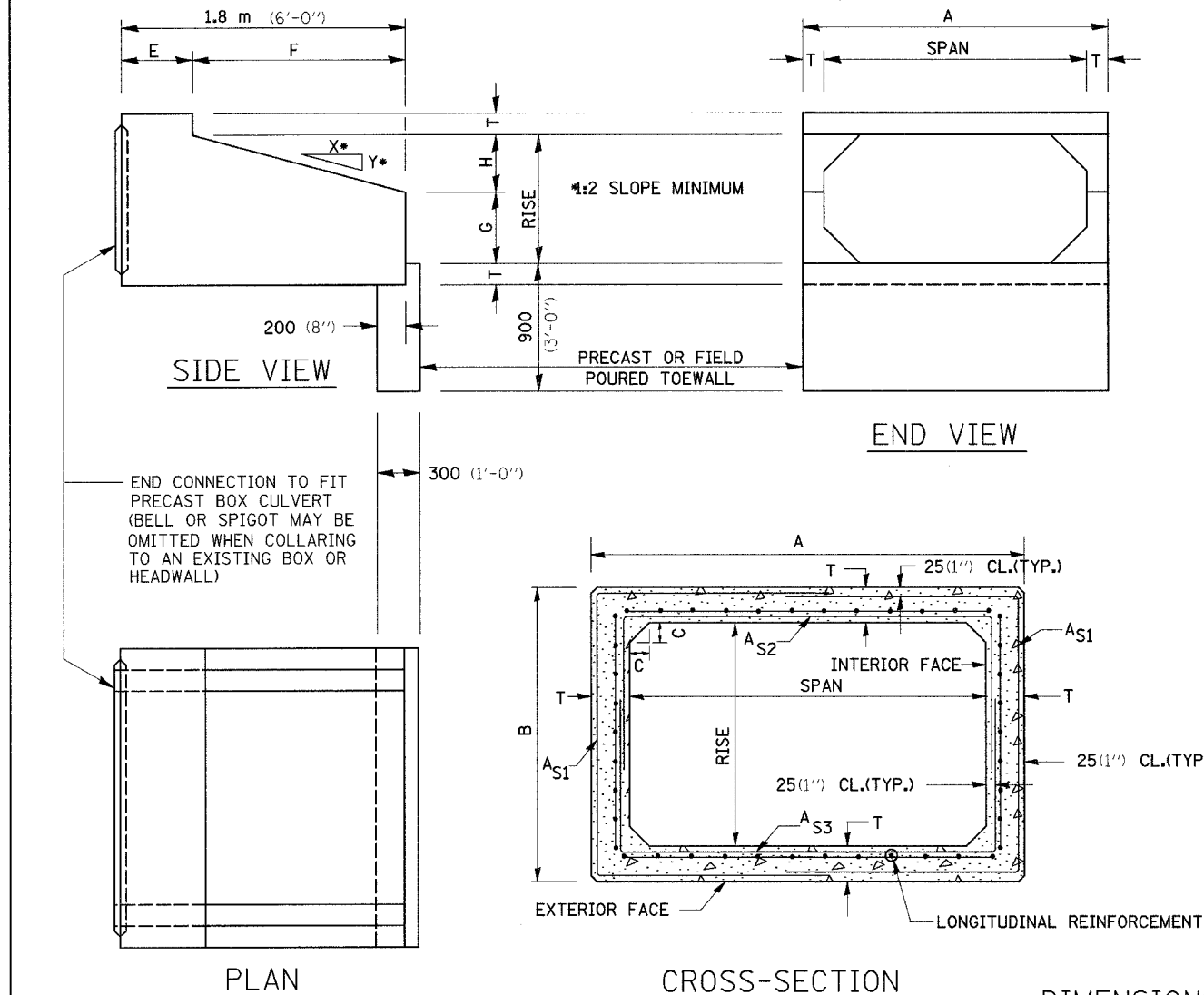
* ALL DIMENSIONS SHOULD BE VERIFIED WITH SUPPLIER.



ISOMETRIC VIEW



PAY LIMITS OF PRECAST CONCRETE BOX CULVERTS



DIMENSIONS (FOR ASTM C789) *

SPAN X RISE	T	A	B	C	E	F	G	H	SLOPE
(ft) meter	(mm)	(ft.-in.)	(ft.-in.)	(inches)	(ft.-in.)	(ft.-in.)	(ft.-in.)	(ft.-in.)	(x : y)
0.6 x 0.6	100	800	800	100	900	900	300	300	1:3
0.9 x 0.6	100	1100	800	100	900	900	300	300	1:3
0.9 x 0.75	100	1100	950	100	900	900	375	375	1:3
0.9 x 0.9	100	1100	1100	100	600	1200	500	400	1:3
1.2 x 0.6	125	1450	850	125	900	900	300	300	1:3
1.2 x 0.9	125	1450	1150	125	600	1200	500	400	1:3
1.2 x 1.2	125	1450	1450	125	600	1200	600	600	1:2
1.5 x 0.6	150	1800	900	150	900	900	300	300	1:3
1.5 x 0.9	150	1800	1200	150	600	1200	500	400	1:3
1.5 x 1.2	150	1800	1500	150	600	1200	600	600	1:2
1.5 x 1.5	150	1800	1800	150	600	1200	900	600	1:3
1.8 x 0.6	175	2150	950	175	900	900	300	300	1:3
1.8 x 0.9	175	2150	1250	175	600	1200	500	400	1:3
1.8 x 1.2	175	2150	1550	175	600	1200	600	600	1:2
1.8 x 1.5	175	2150	1850	175	600	1200	900	600	1:2
1.8 x 1.8	175	2150	2150	175	600	1200	1200	600	1:2

SPAN X RISE	T	A	B	C	E	F	G	H	SLOPE
(ft) meter	(mm)	(ft.-in.)	(ft.-in.)	(inches)	(ft.-in.)	(ft.-in.)	(ft.-in.)	(ft.-in.)	(x : y)
2.1 x 0.9	200	2500	1300	200	600	1200	300	600	1:2
2.1 x 1.2	200	2500	1600	200	600	1200	600	600	1:2
2.1 x 1.5	200	2500	1900	200	600	1200	900	600	1:2
2.1 x 1.8	200	2500	2200	200	600	1200	1200	600	1:2
2.1 x 2.1	200	2500	2500	200	600	1200	1500	600	1:2
2.4 x 0.9	200	2800	1300	200	600	1200	300	600	1:2
2.4 x 1.2	200	2800	1600	200	600	1200	600	600	1:2
2.4 x 1.5	200	2800	1900	200	600	1200	900	600	1:2
2.4 x 1.8	200	2800	2200	200	600	1200	1200	600	1:2
2.4 x 2.1	200	2800	2500	200	600	1200	1500	600	1:2
2.4 x 2.4	200	2800	2800	200	600	1200	1800	600	1:2
2.7 x 0.9	225	3150	1350	225	600	1200	300	600	1:2
2.7 x 1.2	225	3150	1650	225	600	1200	600	600	1:2
2.7 x 1.5	225	3150	1950	225	600	1200	900	600	1:2
2.7 x 1.8	225	3150	2250	225	600	1200	1200	600	1:2
2.7 x 2.1	225	3150	2600	225	600	1200	1500	600	1:2

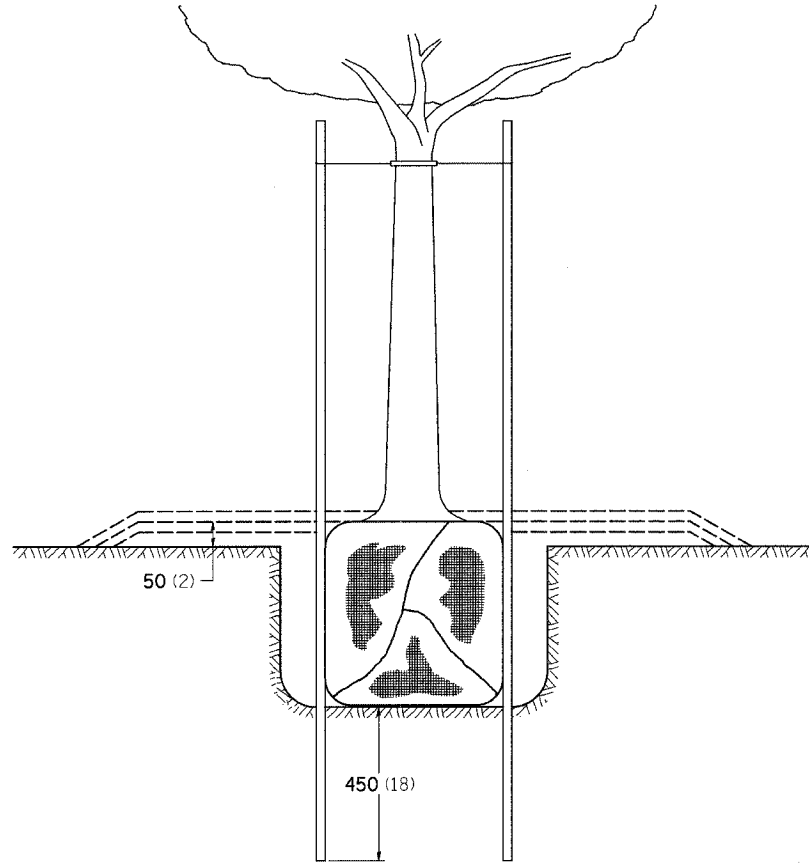
SPAN X RISE	T	A	B	C	E	F	G	H	SLOPE
(ft) meter	(mm)	(ft.-in.)	(ft.-in.)	(inches)	(ft.-in.)	(ft.-in.)	(ft.-in.)	(ft.-in.)	(x : y)
2.7 x 2.4	225	3150	2900	225	600	1200	1800	600	1:2
2.7 x 2.7	225	3150	3150	225	600	1200	2100	600	1:2
3.0 x 0.9	255	3550	1425	250	600	1200	500	400	1:3
3.0 x 1.2	255	3550	1725	250	600	1200	300	600	1:2
3.0 x 1.5	255	3550	2025	250	600	1200	600	600	1:2
3.0 x 1.8	255	3550	2350	250	600	1200	900	600	1:2
3.0 x 2.1	255	3550	2650	250	600	1200	1500	600	1:2
3.0 x 2.4	255	3550	2950	250	600	1200	1800	600	1:2
3.0 x 2.7	255	3550	3250	250	600	1200	2100	600	1:2
3.0 x 3.0	255	3550	3550	250	600	1200	2400	600	1:2
3.3 x 0.9	280	3900	1475	275	600	1200	300	600	1:2
3.3 x 1.2	280	3900	1775	275	600	1200	600	600	1:2
3.3 x 1.5	280	3900	2075	275	600	1200	900	600	1:2
3.3 x 1.8	280	3900	2400	275	600	1200	1200	600	1:2
3.3 x 2.1	280	3900	2700	275	600	1200	1500	600	1:2
3.3 x 2.4	280	3900	3000	275	600	1200	1800	600	1:2

SPAN X RISE	T	A	B	C	E	F	G	H	SLOPE
(ft) meter	(mm)	(ft.-in.)	(ft.-in.)	(inches)	(ft.-in.)	(ft.-in.)	(ft.-in.)	(ft.-in.)	(x : y)
3.3 x 2.7	280	3900	3300	275	600	1200	2100	600	1:2
3.3 x 3.0	280	3900	3600	275	600	1200	2400	600	1:2
3.3 x 3.3	280	3900	3900	275	600	1200	2700	600	1:2
3.6 x 0.9	300	4250	1525	300	600	1200	300	600	1:2
3.6 x 1.2	300	4250	1825	300	600	1200	600	600	1:2
3.6 x 1.5	300	4250	2125	300	600	1200	900	600	1:2
3.6 x 1.8	300	4250	2425	300	600	1200	1200	600	1:2
3.6 x 2.1	300	4250	2725	300	600	1200	1500	600	1:2
3.6 x 2.4	300	4250	3025	300	600	1200	1800	600	1:2

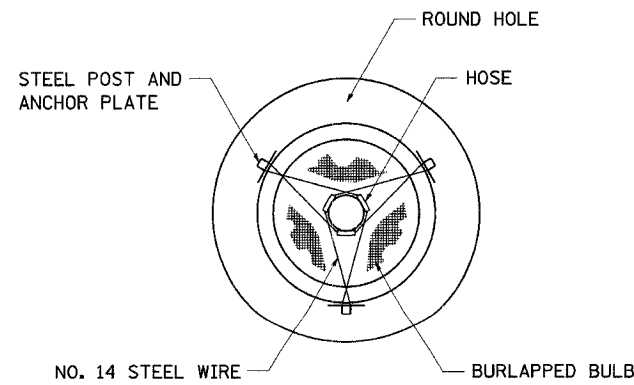
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F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
642	11T	CARROLL	79	63
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	

DETAILS OF PLANTING AND BRACING TREES

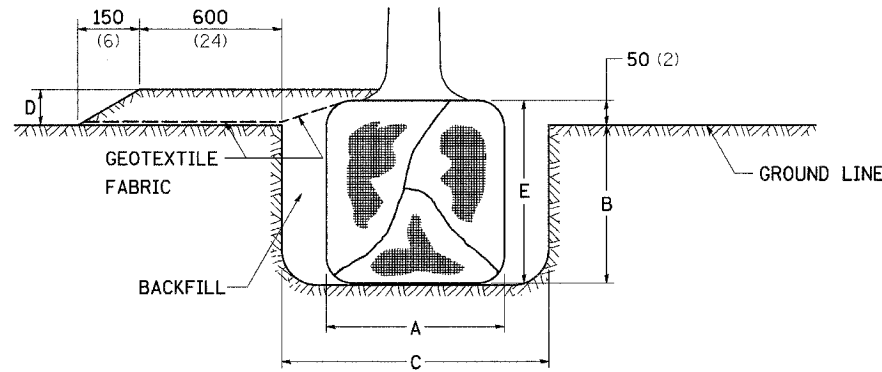


TREES SMALLER THAN 115 (4 1/2) IN DIAMETER

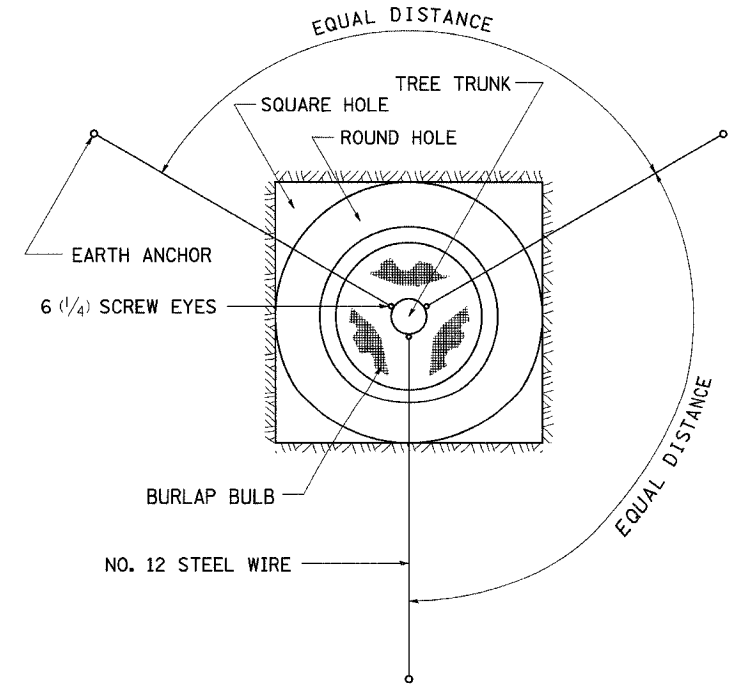


SMALL	A	B	C	D	E	F
TREE SIZE	DIAMETER OF BALL OR ROOT SYS.	DEPTH OF HOLE EXCAVATION	WIDTH OF HOLE EXCAVATION	THICKNESS OF MULCH COVER	DEPTH OF BALL OR ROOT SYS.	VOLUME OF MULCH COVER m ³ (CU. YDS.)
1.5-1.8m (5'-6')	400 (16)	250 (10)	750 (30)	100 (4)	300 (12)	0.41 (0.54)
1.5-1.8m (5'-6') BB	400 (16)	250 (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)

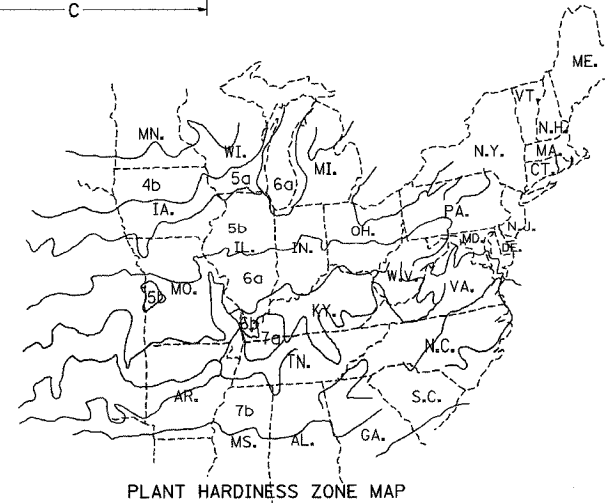
LARGE	A	B	C	D	E	F
TREE SIZE	DIAMETER OF BALL OR ROOT SYS.	DEPTH OF HOLE EXCAVATION	WIDTH OF HOLE EXCAVATION	THICKNESS OF MULCH COVER	DEPTH OF BALL OR ROOT SYS.	VOLUME OF MULCH COVER m ³ (CU. YDS.)
0-50 (0-2)	500 (20)	275 (11)	900 (36)	100 (4)	325 (13)	0.47 (0.61)
50-65 (2-2 1/2) BB	600 (24)	350 (14)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



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



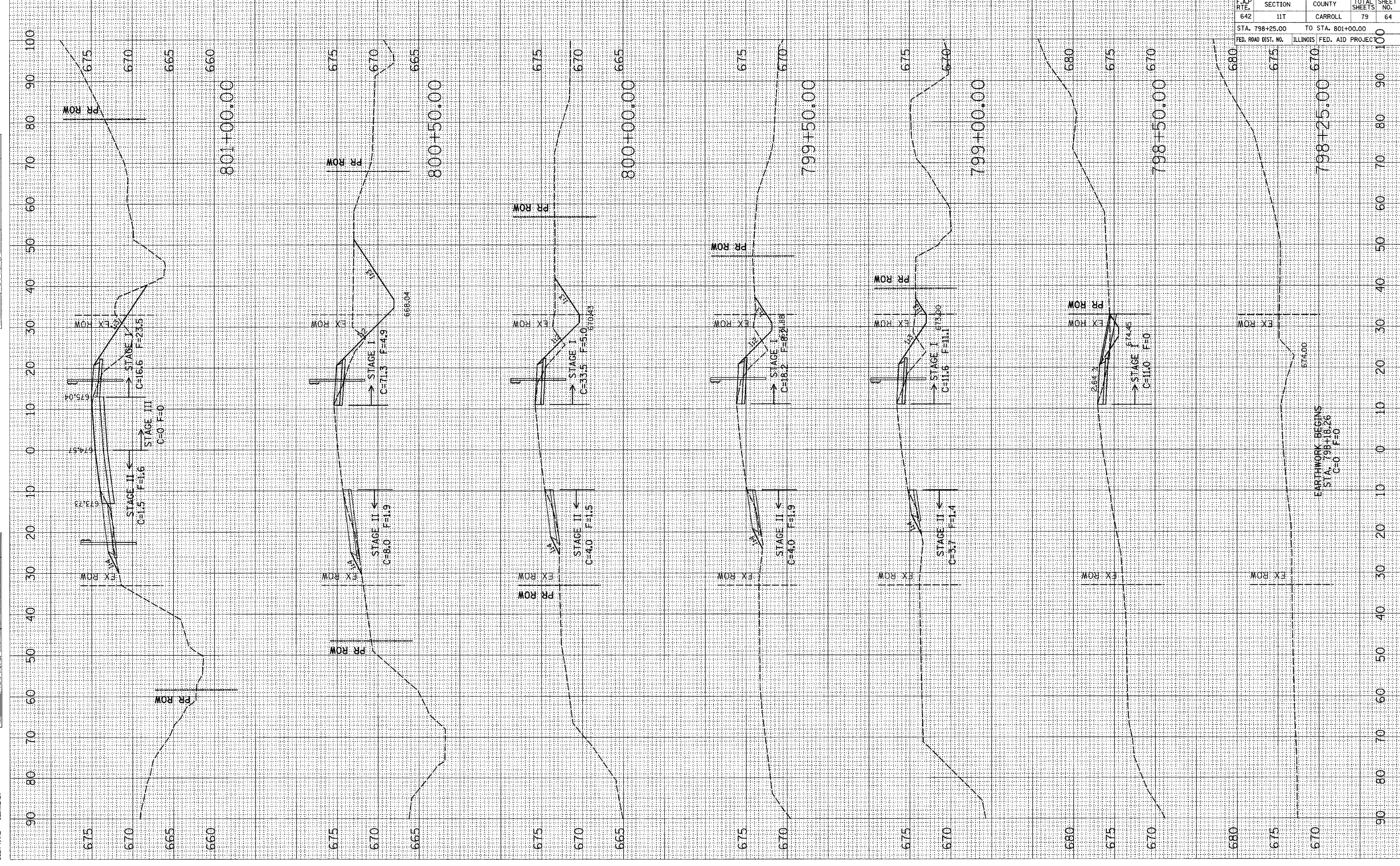
PLANT HARDINESS ZONE MAP
U.S. DEPARTMENT OF AGRICULTURE
AGRICULTURAL RESEARCH SERVICE
PUBLICATION NO. 814

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REFERENCE = #REF#

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ORIGINAL SURVEY
 SURVEYED BY
 PLOTTED BY
 DATE

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



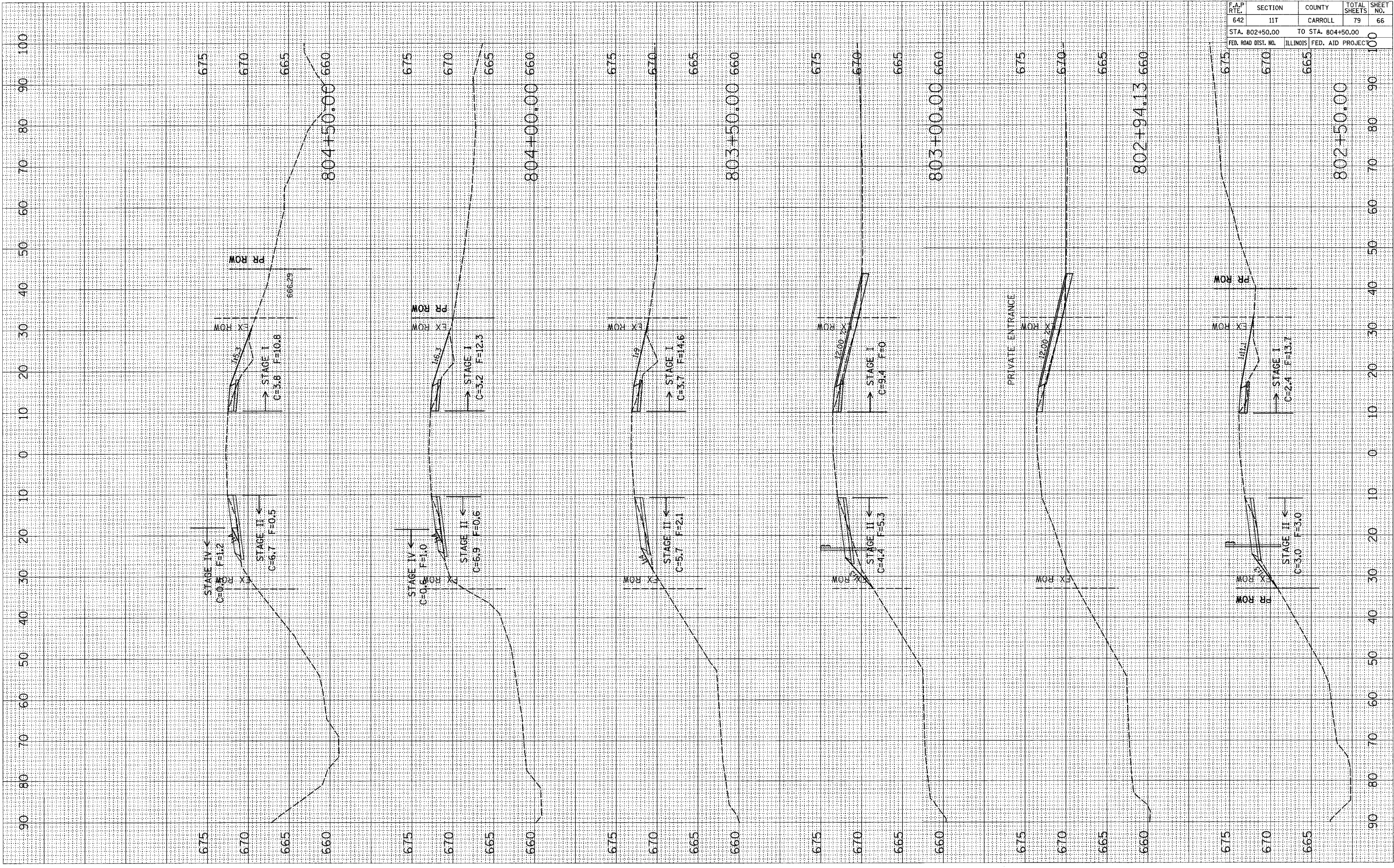
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
642	11T	CARROLL	79	64
STA. 798+25.00		TO STA. 801+00.00		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

EARTHWORK BEGINS
 STA. 798+16.26
 C=0 F=0

PLOT DATE = Thu Oct 11 06:05:40 2007
 FILE NAME = c:\projects\p206088\06088.dwg
 PLOT SCALE = 1/8" = 1' / IN
 USER NAME = c:\admin

ORIGINAL SURVEY SURVEYED SURVEY BY DATE
 SURVEYED SURVEY BY DATE
 TEMPLATE AREAS CHECKED

FINAL SURVEY SURVEYED SURVEY BY DATE
 SURVEYED SURVEY BY DATE
 TEMPLATE AREAS CHECKED



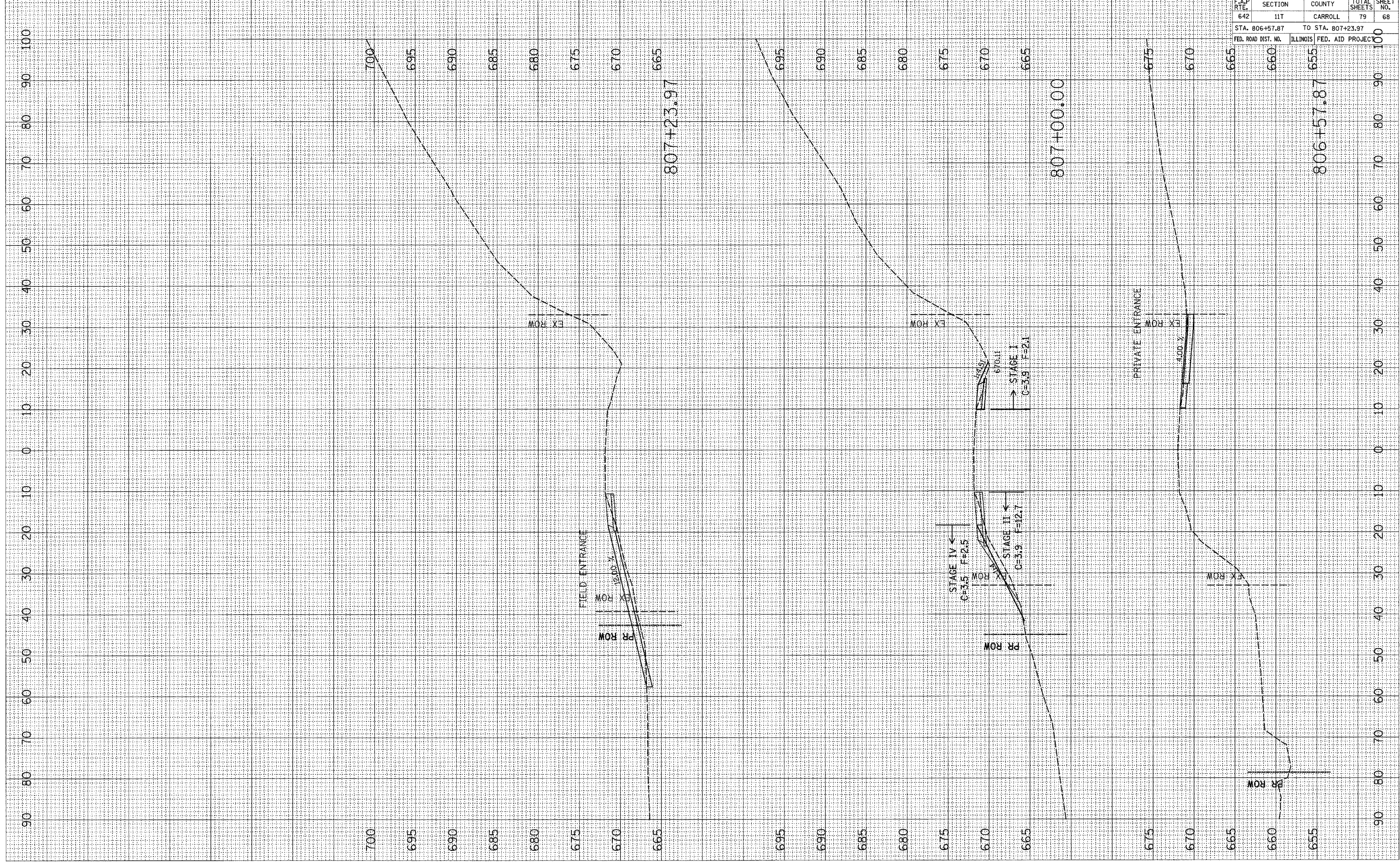
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
642	11T	CARROLL	79	66

STA. 802+50.00 TO STA. 804+50.00
 FED. ROAD DIST. NO. ILLINOIS FED. AID PROJEC

PLOT DATE = Thu Oct 11 06:05:41 2007
 FILE NAME = c:\p\projects\2006\806\806.dwg
 PLOT SCALE = 1/8"=1'-0" / IN.
 USER NAME = danielmcb

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

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

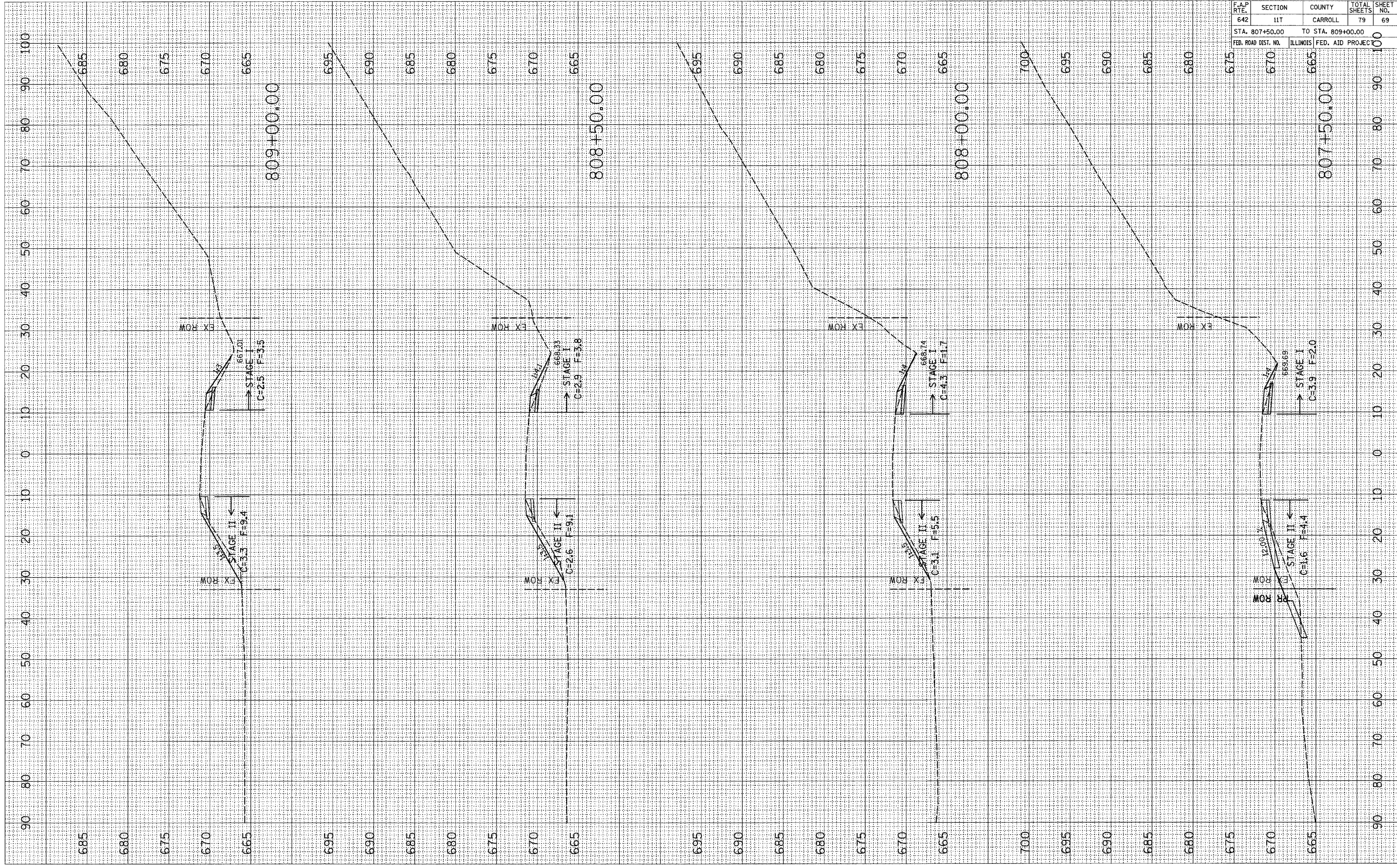


CONTRACT NO. 64082				
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
642	11T	CARROLL	79	68
STA. 806+57.87		TO STA. 807+23.97		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

PLOT DATE = Thu, Oct 11 10:05:41 2007
 FILE NAME = I:\2006\6482\6482.dwg
 PLOT SCALE = 1/8" = 1' / IN.
 USER NAME = cushmanb

ORIGINAL SURVEYED _____
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 PLOTTED _____
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 NO. _____
 AREAS CHECKED _____

FINAL SURVEYED _____
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 PLOTTED _____
 DATE _____
 NO. _____
 AREAS CHECKED _____



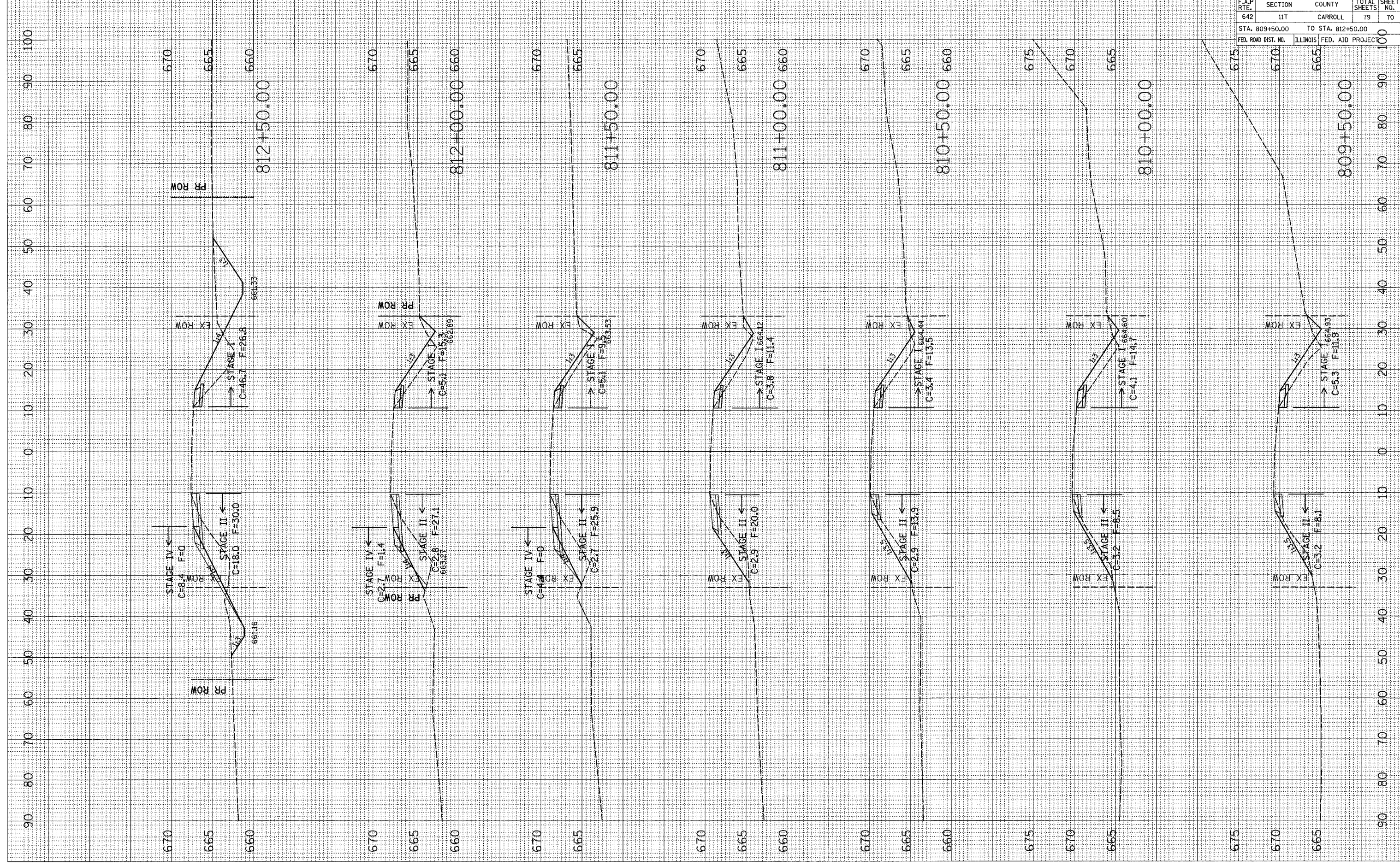
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
642	11T	CARROLL	79	69
STA. 807+50.00		TO STA. 809+00.00		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	

CONTRACT NO. 64D82

PLOT DATE: Thu Oct 11 06:06:41 2007
 FILE NAME: c:\pvc\pcts\2006080\c06080.dwg
 PLOT SCALE: 1/8" = 1' / IN.
 USER NAME: c:\cnambrw

ORIGINAL SURVEY BY DATE
 SURVEYED BY DATE
 TEMPLATE NO.
 AREAS CHECKED

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



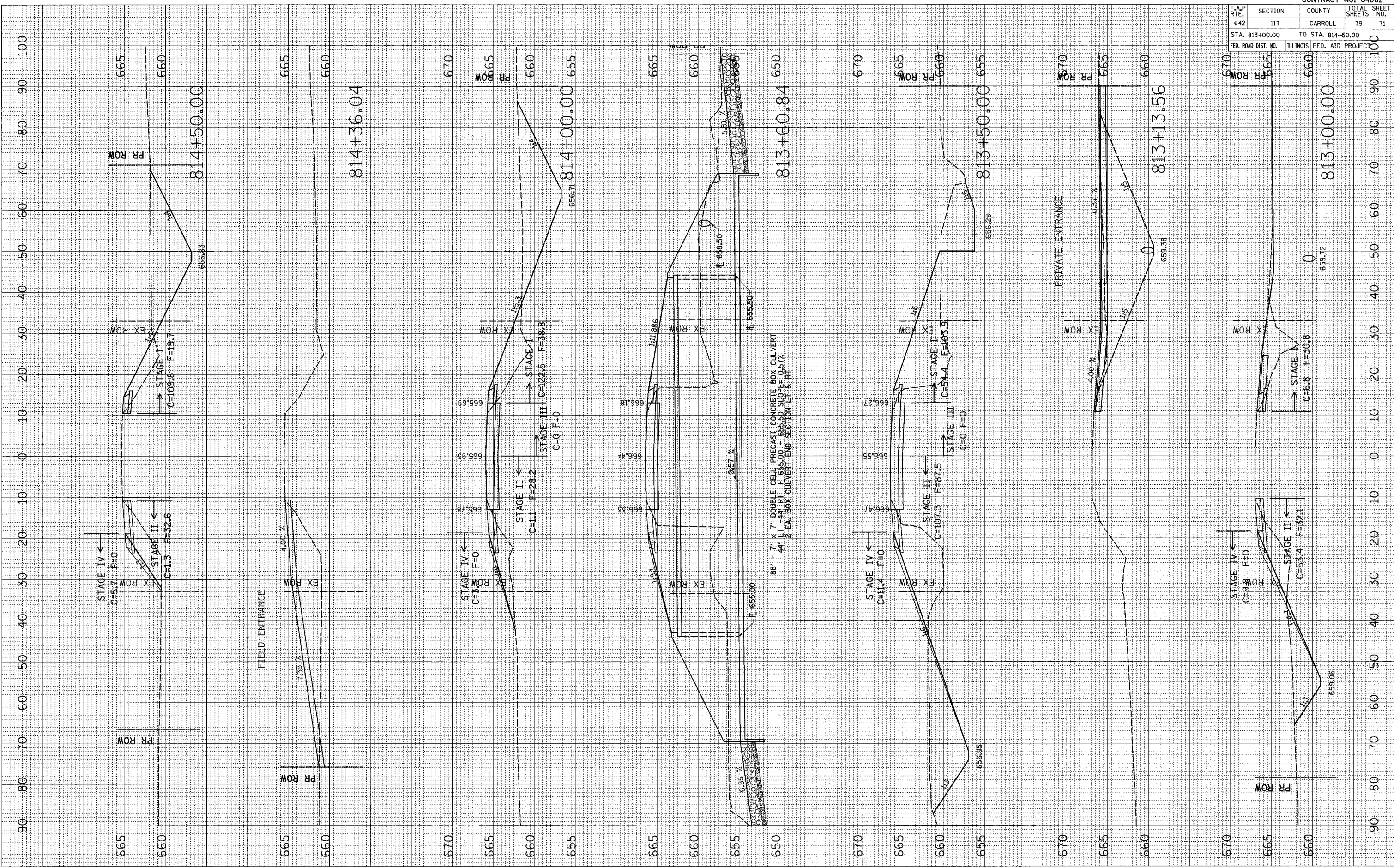
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
642	11T	CARROLL	79	70

STA. 809+50.00 TO STA. 812+50.00
 FED. ROAD DIST. NO. ILLINOIS FED. AID PROJEC

PLOT DATE = Thu, Oct 11 08:05:41 2007
 FILE NAME = s:\work\6632\20066630\6632066630.dwg
 PLOT SCALE = 10.0000 / IN.
 USER NAME = dshumway

ORIGINAL SURVEYED SURVEY PLOTTED PLOTTED DATE NO. AREAS CHECKED

FINAL SURVEY SURVEYED SURVEY PLOTTED PLOTTED DATE NO. AREAS CHECKED

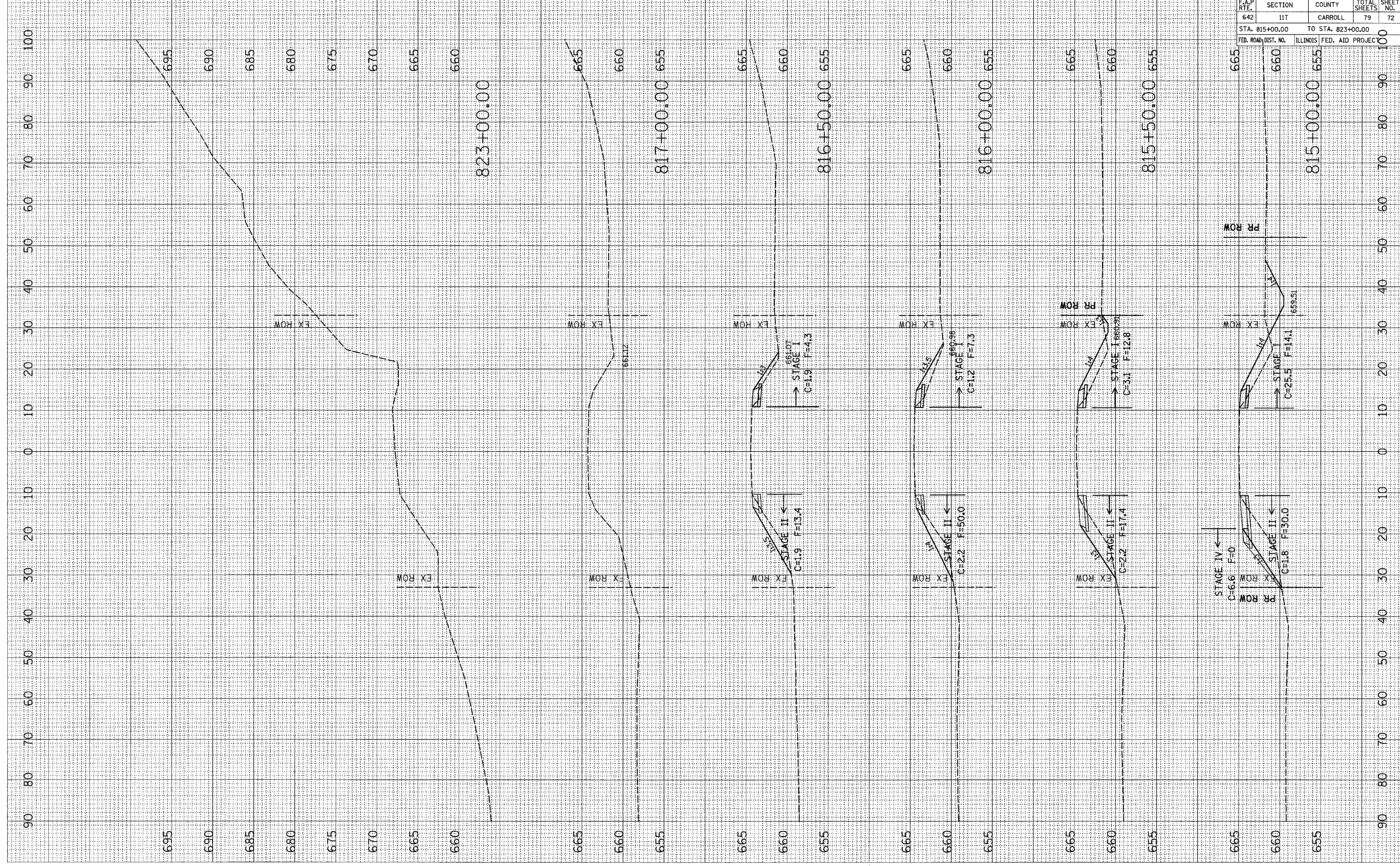


F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
642	11T	CARROLL	79	71
STA. 813+00.00		TO STA. 814+50.00		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	

PLOT DATE = Thu Oct 11 06:05:41 2007
 FILE NAME = c:\p\projects\200688\200688.dwg
 PLOT SCALE = 1/8"=1'-0" / IN
 USER NAME = c:\admin

ORIGINAL SURVEY BY DATE
 SURVEY NO. _____
 SURVEY DATE _____
 SURVEY AREA _____
 SURVEY METHOD _____
 SURVEY INSTRUMENT _____
 SURVEY CONTROL _____
 SURVEY NOTES _____
 SURVEY PLANS _____
 SURVEY RECORDS _____

FINAL SURVEY BY DATE
 SURVEY NO. _____
 SURVEY DATE _____
 SURVEY AREA _____
 SURVEY METHOD _____
 SURVEY INSTRUMENT _____
 SURVEY CONTROL _____
 SURVEY NOTES _____
 SURVEY PLANS _____
 SURVEY RECORDS _____



F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
642	11T	CARROLL	79	72

CONTRACT NO. 64D82

STA. 815+00.00 TO STA. 823+00.00

FED. ROAD DIST. NO. ILLINOIS FED. AID PROJ. NO.

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823+00.00

817+00.00

816+50.00

816+00.00

815+50.00

815+00.00

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STAGE II
C=1.9 F=13.4

STAGE II
C=2.2 F=50.0

STAGE II
C=2.2 F=17.4

STAGE II
C=1.8 F=30.0

STAGE I
C=1.9 F=4.3

STAGE I
C=1.2 F=7.3

STAGE I
C=3.1 F=12.8

STAGE I
C=25.5 F=14.1

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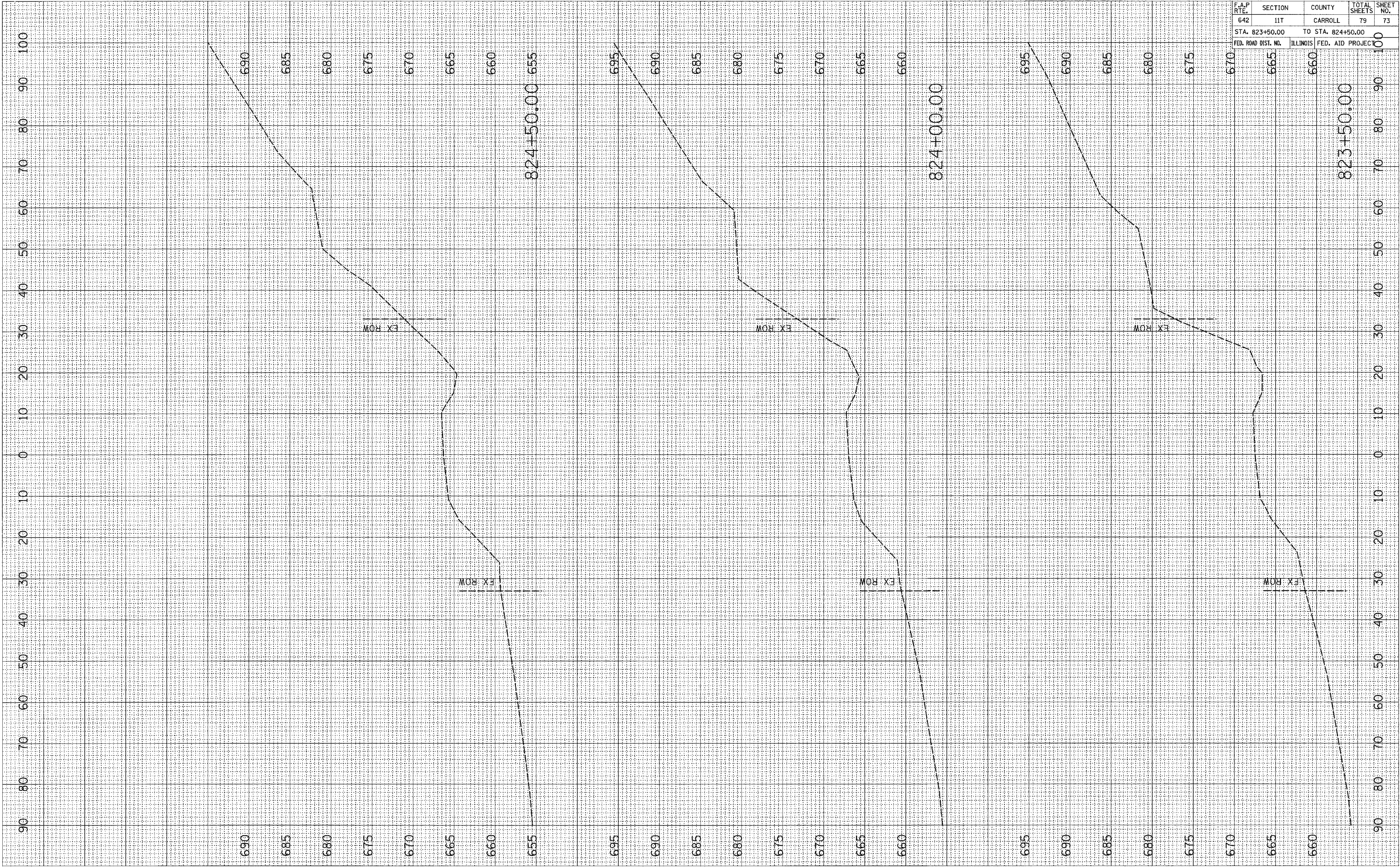
PR ROW

PR ROW

PLOT DATE = Thu Oct 11 06:05:42 2007
 FILE NAME = c:\pvc\objects\2006666\0006666.dwg
 PLOT SCALE = 10.0000 / IN.
 USER NAME = channanbr

ORIGINAL SURVEY
 SURVEYED BY DATE
 SURVEY TEMPLATE
 NOTE BOOK AREAS CHECKED

FINAL SURVEY
 SURVEYED BY DATE
 SURVEY TEMPLATE
 NOTE BOOK AREAS CHECKED

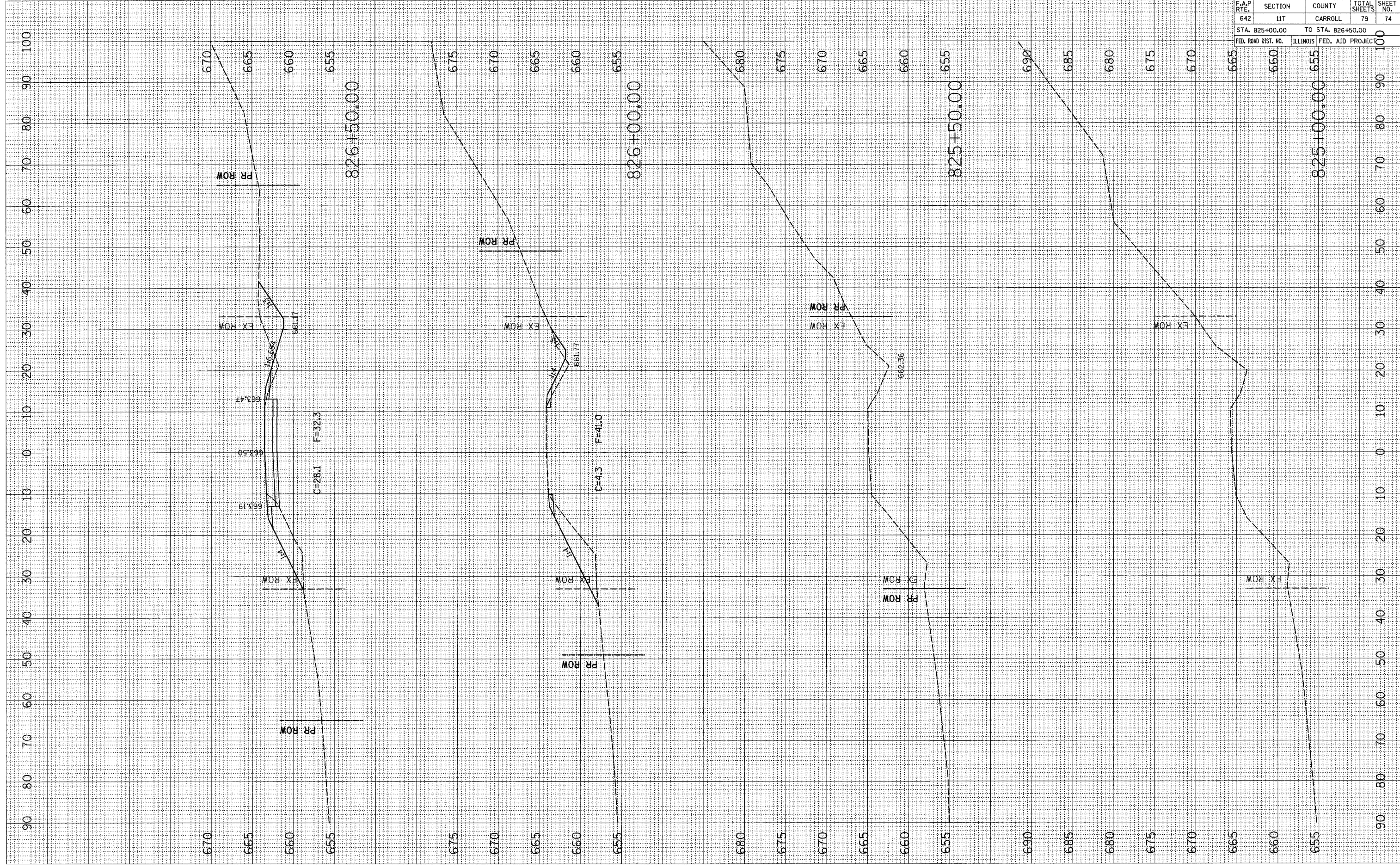


CONTRACT NO. 64D82				
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
642	11T	CARROLL	79	73
STA. 823+50.00 TO STA. 824+50.00				
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJEC		

PLOT DATE = Thu Oct 11 08:05:40 2007
 FILE NAME = I:\2006\64D82\64D82.dwg
 PLOT SCALE = 1/8"=1'-0" / 31.75
 USER NAME = gwhanabw

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

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



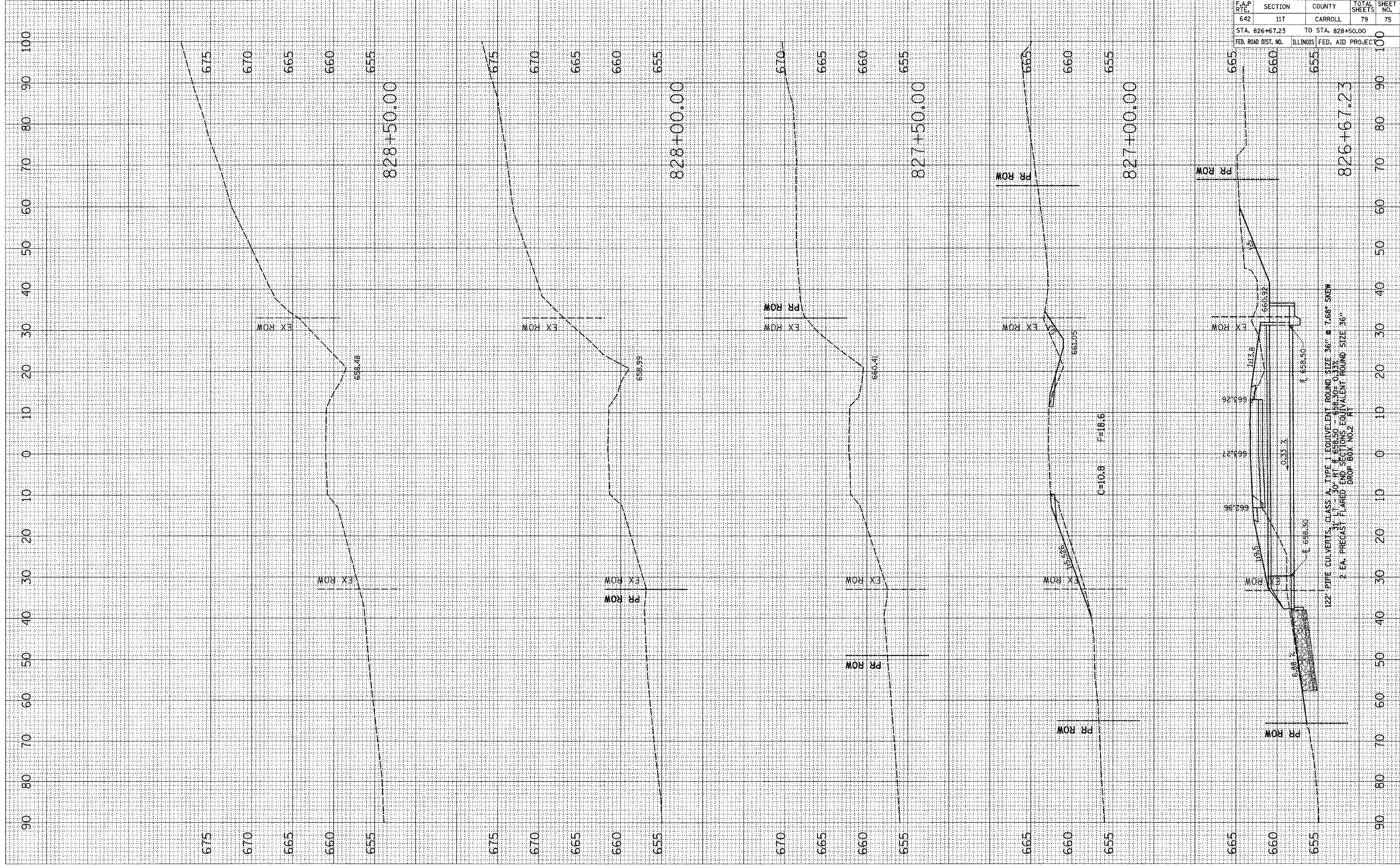
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
642	11T	CARROLL	79	74
STA. 825+00.00		TO STA. 826+50.00		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	

CONTRACT NO. 64D82

PLOT DATE = Thu Oct 11 06:05:42 2007
 FILE NAME = s:\projects\22069686\22069686.dwg
 PLOT SCALE = 1/8" = 1' / IN.
 USER NAME = cadmanba

ORIGINAL SURVEY BY DATE
 SURVEY BY DATE
 NOTE BOOK TEMPLATE AREAS AREAS CHECKED

FINAL SURVEY BY DATE
 SURVEY BY DATE
 NOTE BOOK TEMPLATE AREAS AREAS CHECKED



122" PIPE CULVERTS, CLASS A, TYPE 1 EQUIVALENT ROUND SIZE 36" & 7.68° SKEW
 2 EA. PRECAST FLARED END SECTIONS EQUIVALENT ROUND SIZE 36"
 DROP BOX NO. 2

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
642	11T	CARROLL	79	75

CONTRACT NO. 64082

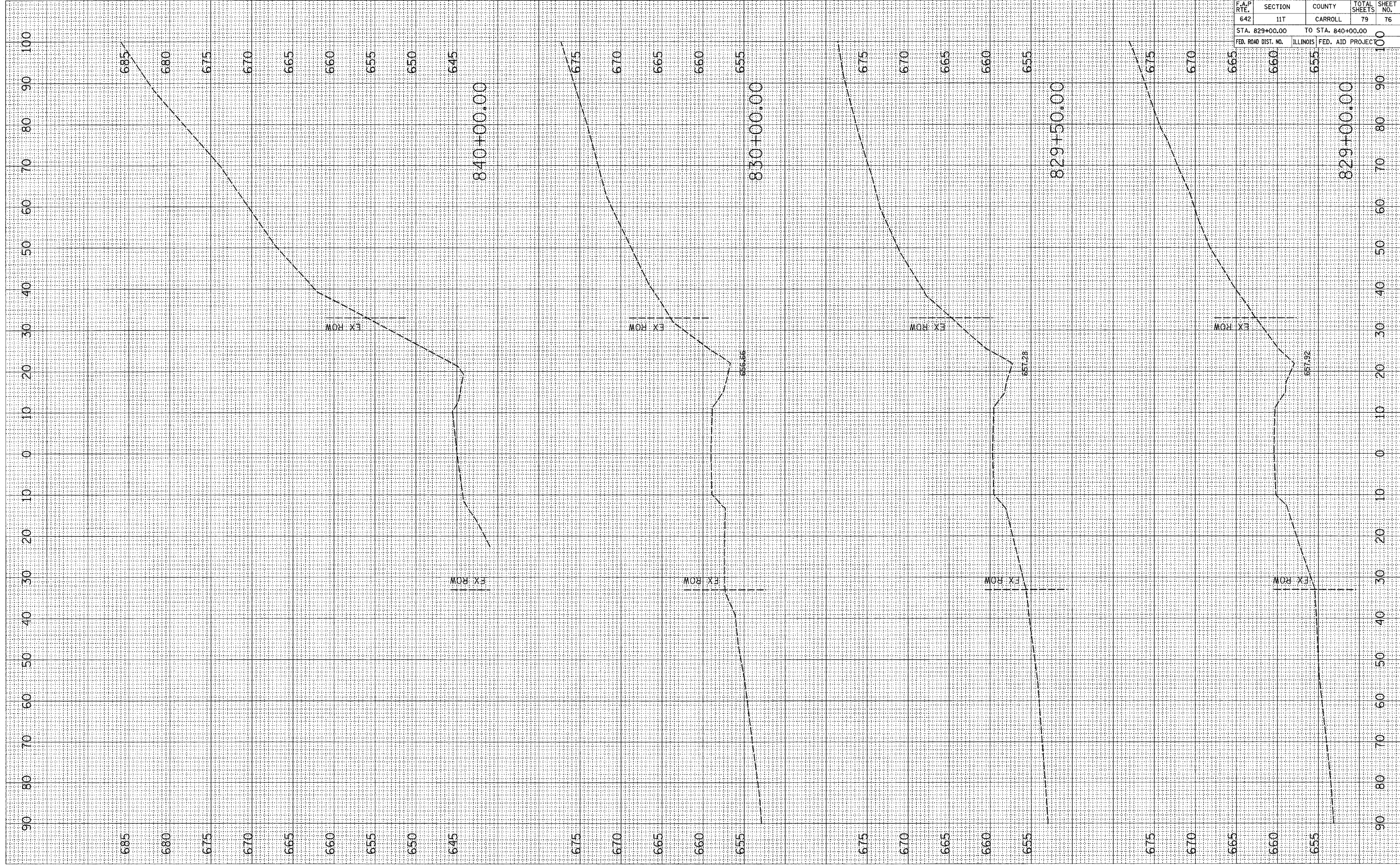
STA. 826+67.23 TO STA. 828+50.00

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

PLOT DATE = Thu Oct 11 06:06:42 2007
 FILE NAME = c:\projects\2006888\2006888.dwg
 PLOT SCALE = 1/8" = 1' / IN.
 USER NAME = c:\member

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

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

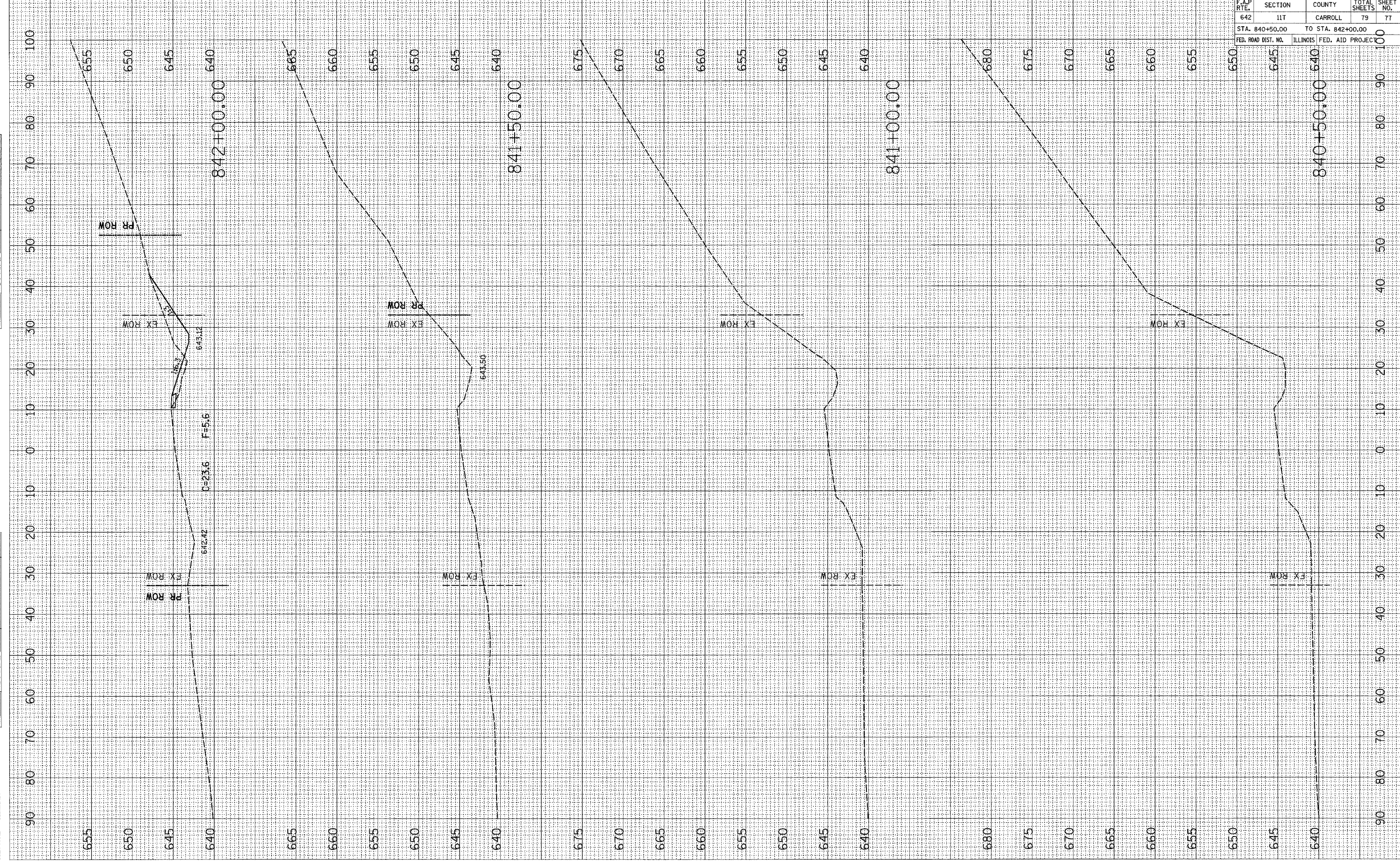


CONTRACT NO. 64D82				
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
642	11T	CARROLL	79	76
STA. 829+00.00		TO STA. 840+00.00		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

PLOT DATE = Thu, 04 Jul 2008 08:43:29
 FILE NAME = c:\pwworkspace\20080628\20080628.dwg
 PLOT SCALE = 10.0000 / IN.
 USER NAME = danielm

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

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



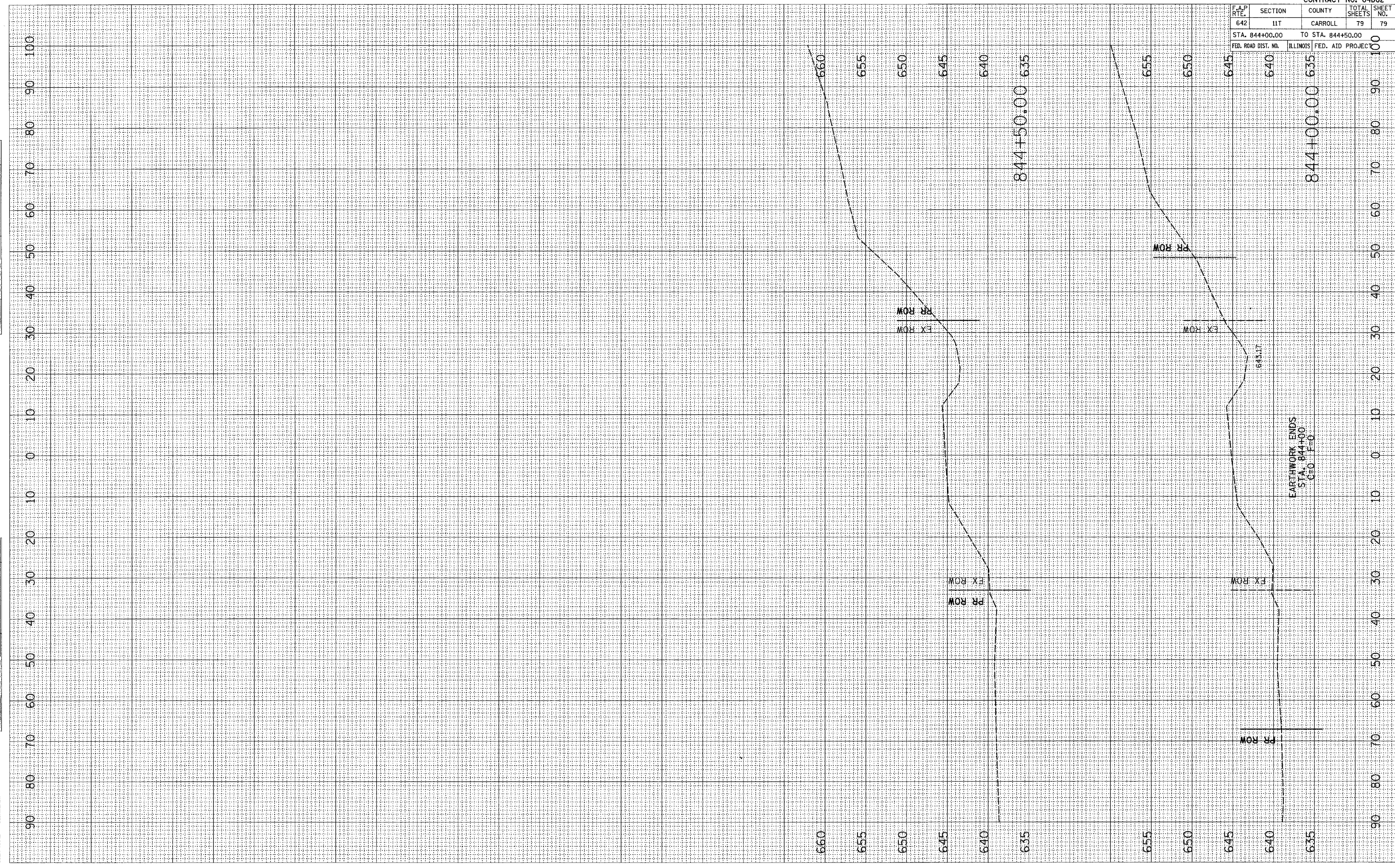
F.A.P. R.T.E.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
642	11T	CARROLL	79	77
STA. 840+50.00		TO STA. 842+00.00		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

CONTRACT NO. 64D82

PLOT DATE = Thu Oct 11 09:54:53 2007
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 PLOT SCALE = 18.0000 / IN.
 USER NAME = cuthmanbr

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

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



F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
642	11T	CARROLL	79	79

STA. 844+00.00 TO STA. 844+50.00
 FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT

CONTRACT NO. 64D82

EARTHWORK ENDS
 STA. 844+00
 C&O F=0