F.A.S RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1190	(125BY)BR	KNOX	94	1
	ILLINOIS	CONTRACT NO. 68087		

INDEX OF SHEETS 1-20-2012 LETTING ITEM 044

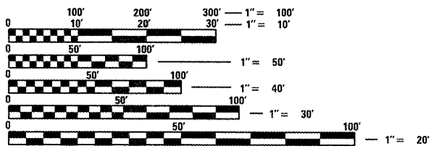
HIGHWAY STANDARDS

000001–06	630001–10	701006–03	701326–04
280001–06	630301–05	701011–02	701901–02
420401–08	631031–10	701201–04	704001–07
515001–03	635001–01	701301–04	780001–03
601101–01	635006–03	701306–03	781001–03
606101–04	666001–01	701311–03	886001–01
609006–05	701001–02	701321–12	886006–01

CADD STANDARDS

205001–D4	440001–D4	780001–D4
406301–D4	630101–D4	
420401–D4	635101–D4	

ADT = 2850 (2009)
PV = 94.3%
MU = 3.2%
SU = 2.4%
MAJOR COLLECTOR (RURAL)
DESIGN (POSTED) SPEED: 55 MPH



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
OR 811

PROJECT ENGINEER: CHRISTOPHER MAUSHARD (309) 671–3453
PROJECT MANAGER: SOBHI LABABIDI (309) 671–3460

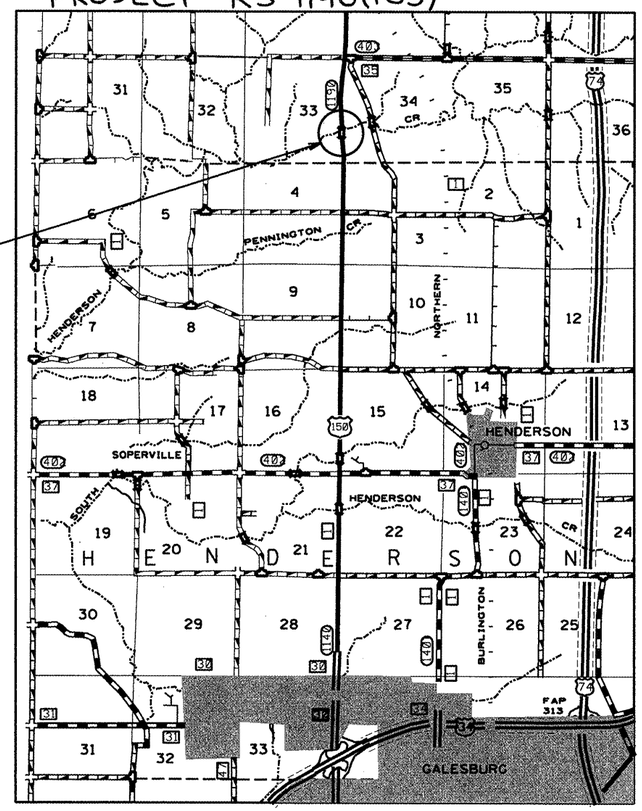
CONTRACT NO. 68087
CATALOG NO. 032283–01D

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

PROPOSED
HIGHWAY PLANS

FAS 1190 (US 150)
SECTION (125BY)BR
KNOX COUNTY
C–94–107–00
BRIDGE REPLACEMENT

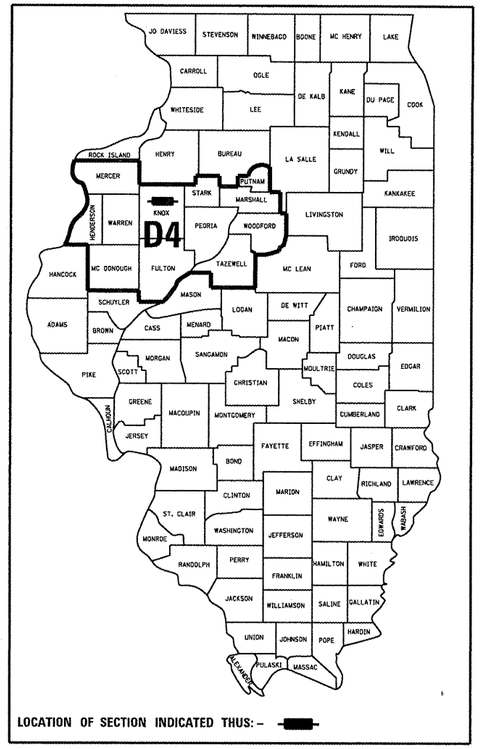
PROJECT RS-1190(105)



US 150 OVER HENDERSON CREEK PROPOSED ONE–SPAN PPC BULB TEE STRUCTURE, 112' BK–BK INTEGRAL ABUTMENTS, 39' 2" O–O DECK WIDTH WITH F PARAPETS, 10° SKEW.
EXISTING SN–048–0027
PROPOSED SN–048–0088,
STA. 142 + 00 TO STA. 156 + 50

GROSS LENGTH OF PROJECT = 1450 FEET = 0.275 MILES
NET LENGTH OF PROJECT = 1338 FEET = 0.253 MILES

D-94-073-00



LOCATION OF SECTION INDICATED THUS: –

PROJECT DESCRIPTION:

BRIDGE REPLACEMENT ON US 150 OVER HENDERSON CREEK [SN 048–0027(EXISTING); 048–0088(PROPOSED)]; 6.3 MILES NORTH OF US 34 IN GALESBURG

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

SUBMITTED 10-21 20 11
Joseph E. Corcoran
DEPUTY DIRECTOR OF HIGHWAYS, REGION ENGINEER
December 9 20 11
Scott E. Stitt, P.E. /BR
acting ENGINEER OF DESIGN AND ENVIRONMENT
December 9 20 11
William B. Fleming
Interim DIRECTOR OF HIGHWAYS, CHIEF ENGINEER

PRINTED BY THE AUTHORITY OF THE STATE OF ILLINOIS

GENERAL NOTES

COMMITMENTS

Commitments are not to be altered without the written approval of all parties to which the commitment was made. The following commitment was made:

1– Resident Engineer shall contact JIM AUSTIN 309–536–0524 OR VIRGINIA FELL 309–371–5253 at the GALESBURG MOTORCYCLE CLUB 30 days prior to any construction activities at the entrance.

UTILITIES – LOCATIONS /INFORMATION ON PLANS

The locations of existing water mains, gas mains, sewers, electric power lines, telephone lines and other utilities as shown on the plans are based on careful field investigation and the best information available, but they are not guaranteed. Unless elevations are shown, all utility locations shown on the cross sections are based on the approximate depth supplied by the utility company. It shall be the Contractor's responsibility to ascertain their exact location from the utility companies and by field inspection.

TREE REMOVAL – UTILITY RELOCATION

Tree removal may be necessary prior to utility companies being able to relocate their facilities outside the construction limits. The Contractor should coordinate any contract tree removal activities with the utility companies to eliminate conflicts and potential delays caused by utility tree removal activities or incomplete utility relocations.

PLAN ELEVATIONS – U. S. G. S. MEAN SEA LEVEL DATUM

All elevations shown on the plans are established from U. S. G. S. mean sea level datum.

PROPERTY OWNER ACCESS REQUIREMENTS

Access must be maintained to all existing properties during construction per Article 107.09 unless arrangements are made in writing by the Contractor with the property owners with a copy to the Engineer for short–term closures.

TEMPORARY MATERIAL REQUIREMENTS – UTILITY AND DRIVEWAY CROSSINGS

Incidental hot–mix asphalt surface shall be used for all temporary side road crossings. Aggregate surface course may be used for all driveway crossings except during winter shutdown in accordance with Article 107.09.

CLEARING

At locations where clearing is indicated on the plans beyond the limits of the proposed excavation or embankment, the Contractor shall restore the disturbed earth by blading and shaping to blend with the adjacent ground. The clearing will not be paid for separately but shall be included in the cost of excavation pay items in the plans. Payment for reseeding or resodding will be as provided in the plans.

EARTH EXCAVATION – INCIDENTAL TO CURB, GUTTER, & DRIVEWAY

Earth excavation and backfill for proposed curb and gutter and driveway pavements shall be included in the unit cost of the various items.

ENVIRONMENTAL REVIEWS

Prior to the use of any proposed borrow areas, use areas (temporary access roads, detours, run–arounds, etc.) and/or waste areas, the Contractor shall file the required environmental resource request surveys according to Section 107.22 of the Standard Specifications. These surveys are required in order for the Department to conduct cultural and biological resource surveys for the proposed site.

Prior to any waste materials being removed from the construction site the required environmental resource surveys will need to be obtained and filed by the Contractor. Excess waste products removed from the construction site shall be disposed of as required in Section 202.03 of the Standard Specifications.

Any protruding metal bars shall be removed prior to the disposal of broken concrete at approved disposal sites.

The required environmental resource documentation shall include the following:

* BDE Form 2289 (Environmental Survey Request)
* A location map showing the size limits and location of the use area
* Signed property owner agreement form–D4 PI0100
* Color photographs depicting the use area
* Borrow Area Entry Agreement form–D4 PI0101

Please note that a minimum of two weeks shall be allowed for the District to obtain the required environmental clearances.

SEEDING – SIDE SLOPE RIPPING

All slopes steeper than 3 to 1 and over 15 ft (4.5 m) in height shall be ripped This shall consist of ripping between 18 inches to 24 inches (450 mm to 600 mm) deep normal to the slope. The interval of ripping along the slope shall be 12 ft. (3.6 m). This work shall be done after the seed bed has been prepared but before any fertilizer or seed has been applied. The fertilizer and seed shall be applied within a 24–hour period after the ripping has been done. This work will not be paid for separately but will be included in the cost of the various items of seeding involved.

AGGREGATE SHOULDERS, TYPE B

Aggregate Shoulders, Type B shall be required for all granular construction of side roads, entrances, and mailbox turnouts, whether or not portions of the surfaces thus constructed are to be covered with a bituminous surface, except where noted differently on the plans.

AGGREGATE FOR DRIVEWAY REPLACEMENT

The material used for construction of permanent aggregate driveways shall be gravel or crushed stone as directed by the Engineer, to replace in kind the existing aggregate driveways.

No additional compensation shall be provided for this requirement but shall be considered as included in the cost of the pay item for the aggregate as specified on the plans.

PAVEMENT STATIONING NUMBERS & PLACEMENT

The Contractor shall provide labor and materials required to imprint pavement station numbers in the finished surface of the pavement and/or overlay. The numbers shall be approximately 3/4 inch (20mm) wide, 5 inches (125 mm) high and 5/8 inch (15 mm) deep.

The pavement station numbers shall be installed as specified herein:

Interval – 200 feet (English stationing) or 100 meters (metric stationing)

FILE NAME = Cover Sheet, District Std, General Notes	USER NAME = lababsdism	DESIGNED -	REVISED -
	phase1.dgn	DRAWN -	REVISED -
	PLOT SCALE = 100.4566 ' / in.	CHECKED -	REVISED -
	PLOT DATE = 10/17/2011	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GENERAL NOTES

SCALE: | SHEET NO. OF SHEETS | STA. | TO STA.

F.A.S RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1190	(125BY)BR	KNOX	94	2

CONTRACT NO. 68087

ILLINOIS FED. AID PROJECT

Bottom of Numbers – 6 inches (150 mm) from the inside edge of the pavement marking

Location:
* 2,3, & 5 Lane Pavements – right edge of pavement in direction of increasing stations
* Multi–Lane Divided Roadways – outside edge of pavement in both directions
* Ramps – along baseline edge of pavement

Position – stations shall be placed so they can be read from the adjacent shoulder

Format – English (Metric) pavement stations shall use this format "XXX (XX+X00)" where X represents the pavement station

This work will not be paid for separately, but will be considered included in the cost of the associated pavement and/or overlay pay items.

** If the RAP option is selected, the asphalt cement grade may need to be adjusted; this will be determined by the Engineer.

BUTT JOINT CUTTING TIME RESTRICTION

Butt joints shall not be milled more than three (3) days prior to placement of the bituminous surface course.

PAVING SURFACE COURSE

Continuous paving operations on the main roadway shall be maintained at all times during the construction of the hot–mix asphalt surface. No interruptions for side roads, entrances, turn lanes, etc. will be allowed.

ORDERING LENGTH CONFIRMATION – DRAINAGE ITEMS

The Contractor shall consult with the Engineer in regard to the exact length of the box/pipe culverts, storm sewers, and/or pipe drains required prior to ordering these items.

WOVEN WIRE FENCE REPLACEMENT COMMITMENT

The woven wire fence shall be installed prior to the removal of the existing farm fences. The Contractor shall provide a pull post at the intersection of new and existing fences. When so directed by the Engineer, the Contractor shall install the woven wire fence prior to commencing any other work in the area. The Contractor shall perform any clearing and minor grading as directed by the Engineer to provide a smooth ground surface for the proposed fence.

HOT–MIX ASPHALT MIXTURE REQUIREMENTS

Mixture Use(s):	Surface Course	HMA Binder Var. Depth (2.25" to 12")	Incidental Surface Course (if needed)	Leveling Binder	HMA Shoulder (Lower Lifts)	HMA Shoulder (Surface Lift)
AC/PG:	PG 64–22	PG 64–22	PG 64–22	SBS or SBR 70–22	PG 64–22	PG 64–22
RAP% (Max): **	15%	25%	15%	10%	30%	30%
Design Air Voids:	4.0% N=50	4.0% N=50	4.0% N=50	4.0% N=50	4.0% N=30	3.0% N=30
Mixture Composition: (Gradation Mixture)	IL 9.5 or IL 12.5	IL 19.0	IL 9.5 or IL12.5	IL 4.75	IL 19.0L	IL 9.5L
Friction Aggregate:	Mixture D	N.A.	Mixture C	N.A.	N.A.	Mixture C

POLYMERIZED BITUMINOUS MATERIALS (PRIME COAT) RATES

Surface Type	Estimated Truck Application Rate	Residual Rate
Milled (HMA or PCC)	0.08 gal/sy (0.00034 ton/sy)	0.04 gal/sy
Existing Pavement	0.05 gal/sy (0.00022 ton/sy)	0.025 gal/sy
Fog Coat (between lifts)	0.05 gal/sy (0.00022 ton/sy)	0.025 gal/sy

Note: Estimated truck application rate is used for estimating quantities.

ENGINEERS FIELD OFFICE

Add the following sentence to the end of paragraph 670.02 (i) and 670.04 (e):
All of the telephone lines provided shall have unpublished numbers.

SIGNING

Sign locations may vary from the stations shown on the plans in accordance with directions from the Engineer at the time of construction. Sign locations may be adjusted in the field to avoid any found utilities.

All wood post locations shall be verified with the Bureau of Operations, Traffic Section, before installation.

RIGHT OF WAY MARKERS

When installing right of way markers, care shall be taken to not disturb any existing property /right of way pins. If a property /right of way pin is found at the location of a proposed right of way marker, the marker shall be placed one (1) foot in front of the pin.

STATUS OF UTILITIES

AMEREN ILLINOIS
MR. JIM RIPPER
1824 KNOX HIGHWAY 8
GALESBURG, IL 61401
(309) 345–5107

ROUTE	LOCATION	OFFSET	TYPE OF UTILITY	TYPE OF CONFLICT	DISPOSITION
US 150	143+20	43' RT	ELECTRIC POLE	5' +/– FILL	RELOCATE
US 150	145+20	43' RT	ELECTRIC POLE	5' +/– FILL	RELOCATE
US 150	147+20	40' RT	ELECTRIC POLE	3' +/– FILL	RELOCATE
US 150	149+20	42' RT	ELECTRIC POLE	3' +/– FILL	RELOCATE
US 150	150+36	42' RT	ELECTRIC POLE	3' +/– FILL	RELOCATE
US 150	151+65	40' RT	ELECTRIC POLE	DITCH GRADE	RELOCATE
US 150	153+91	37' RT	ELECTRIC POLE	3' +/– FILL	RELOCATE

CENTURY LINK
MR. DANIEL SCHMIDT
200 ENTERPRISE DR.
PEKIN, IL 61554
(309) 477–0255

ROUTE	LOCATION	OFFSET	TYPE OF UTILITY	TYPE OF CONFLICT	DISPOSITION
US 150	142+50 TO 143+00	64' TO 51' RT	AERIAL COMMUNICATION	NEW CULVERT	CAUTION
US 150	151+50 TO 156+00	30' RT	BURIED CABLE	NEW DITCH	RELOCATE
US 150	152+40 TO 155+70	48' RT	BURIED CABLE	NEW DITCH	RELOCATE

SUMMARY OF QUANTITIES

Specialty_Item	PAY ITEM #	DESCRIPTION	UNIT	TOTAL QUANTITIES	0011 BRIDGE HENDERSON 80% FED. 20% STATE	0004 ROADWAY HENDERSON 80% FED 20% STATE	0004 ROADWAY HENDERSON 100% STATE
	20100500	TREE REMOVAL, ACRES	ACRE	1.5		1.5	
	20200100	EARTH EXCAVATION	CU YD	1527		1527	
	20400800	FURNISHED EXCAVATION	CU YD	6090		6090	
	21101615	TOPSOIL FURNISH & PLACE, 4"	SQ YD	22462		22462	
*	25000300	SEEDING, CLASS 3	ACRE	4.64		4.64	
*	25000400	NITROGEN FERTILIZER NUTRIENT	POUND	420		420	
*	25000500	PHOSPHORUS FERTILIZER NUTRIENT	POUND	420		420	
*	25000600	POTASSIUM FERTILIZER NUTRIENT	POUND	420		420	
*	25100105	MULCH, METHOD 1	ACRE	4.64		4.64	
	25100630	EROSION CONTROL BLANKET	SQ YD	100		100	
	28000250	TEMPORARY EROSION CONTROL SEEDING	POUND	465		465	
	28000305	TEMPORARY DITCH CHECKS	FOOT	1460		1460	
	28000400	PERIMETER EROSION BARRIER	FOOT	3000		3000	
	28000500	INLET AND PIPE PROTECTION	EACH	3		3	
	28100705	STONE DUMPED RIPRAP, CLASS A3	SQ YD	570		570	
	28100109	STONE RIPRAP, CLASS A5	SQ YD	1080	1080		
	28200200	FILTER FABRIC	SQ YD	1080	1080		

* SPECIALTY ITEM

FILE NAME = Summary of Quantities.dgn	USER NAME = lababidism	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SUMMARY OF QUANTITIES	F.A.S RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		DRAWN -	REVISED -			1190	(125BY)BR	KNOX	94	4
	PLOT SCALE = 100.000 ' / in.	CHECKED -	REVISED -					CONTRACT NO. 68087		
	PLOT DATE = 10/21/2011	DATE -	REVISED -		SCALE: SHEET NO. OF SHEETS STA. TO STA.			ILLINOIS FED. AID PROJECT		

SUMMARY OF QUANTITIES

Specialty_Item	PAY ITEM #	DESCRIPTION	UNIT	TOTAL QUANTITIES	0011 BRIDGE HENDERSON 80% FED. 20% STATE	0004 ROADWAY HENDERSON 80% FED 20% STATE	0004 ROADWAY HENDERSON 100% STATE
	40200800	AGGREGATE SURFACE COURSE, TYPE B	TON	120		120	
	40201000	AGGREGATE FOR TEMPORARY ACCESS	TON	75		75	
	40600215	POLYMERIZED BITUMINOUS MATERIALS (PRIME COAT)	TON	3.5		3.5	
	40600982	HOT - MIX ASPHALT SURFACE REMOVAL - BUTT JOINT	SQ YD	406		406	
	40600990	TEMPORARY RAMP	SQ YD	64		64	
	40603080	HOT - MIX ASPHALT BINDER COURSE, IL - 19.0, N50	TON	164		164	
	40603335	HOT - MIX ASPHALT SURFACE COURSE, MIX "D", N50	TON	260		260	
	42001300	PROTECTIVE COAT	SQ YD	815	815		
	42001430	BRIDGE APPROACH PAVEMENT CONNECTOR (FLEXIBLE)	SQ YD	160		160	
	42300400	PORTLAND CEMENT CONCRETE DRIVEWAY PAVEMENT, 8 INCH	SQ YD	106.7		106.7	
	44000100	PAVEMENT REMOVAL	SQ YD	370		370	
	44000152	HOT - MIX ASPHALT SURFACE REMOVAL, 3/4"	SQ YD	2180		2180	
	44000200	DRIVEWAY PAVEMENT REMOVAL	SQ YD	50		50	
	44000400	GUTTER REMOVAL	FOOT	1045		1045	
	44004250	PAVED SHOULDER REMOVAL	SQ YD	1950		1950	
	48101600	AGGREGATE SHOULDERS, TYPE B 8"	SQ YD	275		275	
	48203029	HOT - MIX ASPHALT SHOULDERS, 8"	SQ YD	1950		1950	

FILE NAME = Summary of Quantities.dgn
USER NAME = lababidism
PLOT SCALE = 100.000 ' / in.
PLOT DATE = 10/21/2011
DESIGNED -
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CHECKED -
DATE -
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES

SCALE: | SHEET NO. OF SHEETS | STA. | TO STA.

F.A.S RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1190	(125BY)BR	KNOX	94	5
		CONTRACT NO. 68087		
	ILLINOIS FED. AID PROJECT			

SUMMARY OF QUANTITIES

Specialty_Item	PAY ITEM #	DESCRIPTION	UNIT	TOTAL QUANTITIES	0011 BRIDGE HENDERSON 80% FED. 20% STATE	0004 ROADWAY HENDERSON 80% FED. 20% STATE	0004 ROADWAY HENDERSON 100% STATE
	50100100	REMOVAL OF EXISTING STRUCTURES	EACH	1	1		
	50105220	PIPE CULVERT REMOVAL	FOOT	96		96	
	50200100	STRUCTURE EXCAVATION	CU YD	212	212		
	50300225	CONCRETE STRUCTURES	CU YD	69.8	69.8		
	50300255	CONCRETE SUPERSTRUCTURE	CU YD	318.3	318.3		
	50300260	BRIDGE DECK GROOVING	SQ YD	650	650		
	50300280	CONCRETE ENCASEMENT	CU YD	4.2	4.2		
	50400735	FURNISHING AND ERECTING PRECAST PRESTRESSED CONCRETE BULB T-BEAMS 63"	FOOT	662	662		
	50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	70,140	70,140		
	50800515	BAR SPLICERS	EACH	660	660		
	51201700	FURNISHING STEEL PILES HP 12 X 74	FOOT	355	355		
	51202305	DRIVING PILES	FOOT	355	355		
	51203700	TEST PILE STEEL HP 12 X 74	EACH	2	2		
	51500100	NAME PLATES	EACH	1	1		
	54213660	PRECAST REINFORCED CONCRETE FLARED END SECTION 15"	EACH	2		2	
	54213663	PRECAST REINFORCED CONCRETE FLARED END SECTION 18"	EACH	2		2	
	54213669	PRECAST REINFORCED CONCRETE FLARED END SECTION 24"	EACH	4		4	

FILE NAME = Summary of Quantities.dgn	USER NAME = lababdism	DESIGNED -	REVISED -
		DRAWN -	REVISED -
	PLOT SCALE = 100.000 ' / in.	CHECKED -	REVISED -
	PLOT DATE = 10/21/2011	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES

SCALE: | SHEET NO. OF SHEETS | STA. | TO STA.

F.A.S RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1190	(125BY)BR	KNOX	94	6

CONTRACT NO. 68087

ILLINOIS FED. AID PROJECT

SUMMARY OF QUANTITIES

Specialty_Item	PAY ITEM #	DESCRIPTION	UNIT	TOTAL QUANTITIES	0011 BRIDGE HENDERSON 80% FED. 20% STATE	0004 ROADWAY HENDERSON 80% FED 20% STATE	0004 ROADWAY HENDERSON 100% STATE
	54215547	METAL END SECTIONS 12"	EACH	2		2	
	542D0220	PIPE CULVERTS, CLASS D, TYPE 1 15"	FOOT	40		40	
	542D0223	PIPE CULVERTS, CLASS D, TYPE 1 18"	FOOT	96		96	
	542D0229	PIPE CULVERTS, CLASS D, TYPE 1 24"	FOOT	230		230	
	59100100	GEOCOMPOSITE WALL DRAIN	SQ YD	114	114		
	60100060	CONCRETE HEADWALL FOR PIPE DRAINS	EACH	4		4	
	60100945	PIPE DRAINS 12"	FOOT	60		60	
	60220005	MANHOLES, TYPE A, 4'-DIAMETER, WITH MEDIAN INLET (604101)	EACH	2		2	
	60500060	REMOVING INLETS	EACH	3		3	
	60900315	TYPE D INLET BOX, STANDARD 609006	EACH	2		2	
	60900515	CONCRETE THRUST BLOCKS	EACH	2		2	
*	63000001	STEEL PLATE BEAM GUARD RAIL, TYPE A, 6 FOOT POSTS	FOOT	375		375	
*	63100085	TRAFFIC BARRIER TERMINAL, TYPE 6	EACH	4		4	
*	63100167	TRAFFIC BARRIER TERMINAL TYPE 1, SPECIAL (TANGENT)	EACH	3		3	
*	63100169	TRAFFIC BARRIER TERMINAL TYPE 1, SPECIAL (FLARED)	EACH	1		1	
	63200310	GUARDRAIL REMOVAL	FOOT	1603		1603	
	66600105	FURNISHING AND ERECTING RIGHT-OF-WAY MARKERS	EACH	17		17	

* SPECIALTY ITEM

FILE NAME = Summary of Quantities.dgn	USER NAME = lababidism	DESIGNED -	REVISED -
		DRAWN -	REVISED -
	PLOT SCALE = 100.000 ' / in.	CHECKED -	REVISED -
	PLOT DATE = 10/21/2011	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES

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F.A.S RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1190	(125BY)BR	KNOX	94	7

CONTRACT NO. 68087

ILLINOIS FED. AID PROJECT

SUMMARY OF QUANTITIES

Specialty_Item	PAY ITEM #	DESCRIPTION	UNIT	TOTAL QUANTITIES	0011 BRIDGE HENDERSON 80% FED. 20% STATE	0004 ROADWAY HENDERSON 80% FED. 20% STATE	0004 ROADWAY HENDERSON 100% STATE
	66700205	PERMANENT SURVEY MARKERS, TYPE I	EACH	1		1	
	67000400	ENGINEER'S FIELD OFFICE, TYPE A	CAL MO	9		9	
	67100100	MOBILIZATION	L SUM	1		1	
	70100405	TRAFFIC CONTROL AND PROTECTION, STANDARD 701321	EACH	1		1	
	70100450	TRAFFIC CONTROL AND PROTECTION, STANDARD 701201	L SUM	1		1	
	70100500	TRAFFIC CONTROL AND PROTECTION, STANDARD 701326	L SUM	1		1	
	70103815	TRAFFIC CONTROL SURVEILLANCE	CAL DA	60		60	
	70106500	TEMPORARY BRIDGE TRAFFIC SIGNALS	EACH	1		1	
	70106800	CHANGEABLE MESSAGE SIGN	CAL MO	0.5		0.5	
	70300100	SHORT-TERM PAVEMENT MARKING	FOOT	580		580	
	70300220	TEMPORARY PAVEMENT MARKING - LINE 4"	FOOT	4265		4265	
	70301000	WORK ZONE PAVEMENT MARKING REMOVAL	SQ FT	48		48	
	70400100	TEMPORARY CONCRETE BARRIER	FOOT	650		650	
	70400200	RELOCATE TEMPORARY CONCRETE BARRIER	FOOT	650		650	
*	78005110	EPOXY PAVEMENT MARKING - LINE 4"	FOOT	4265		4265	
*	78200410	GUARDRAIL MARKERS, TYPE A	EACH	10		10	
*	78201000	TERMINAL MARKER - DIRECT APPLIED	EACH	4		4	

*SPECIALTY ITEM

FILE NAME = Summary of Quantities.dgn	USER NAME = lababidism	DESIGNED -	REVISED -
		DRAWN -	REVISED -
	PLOT SCALE = 100.000 ' / in.	CHECKED -	REVISED -
	PLOT DATE = 10/21/2011	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

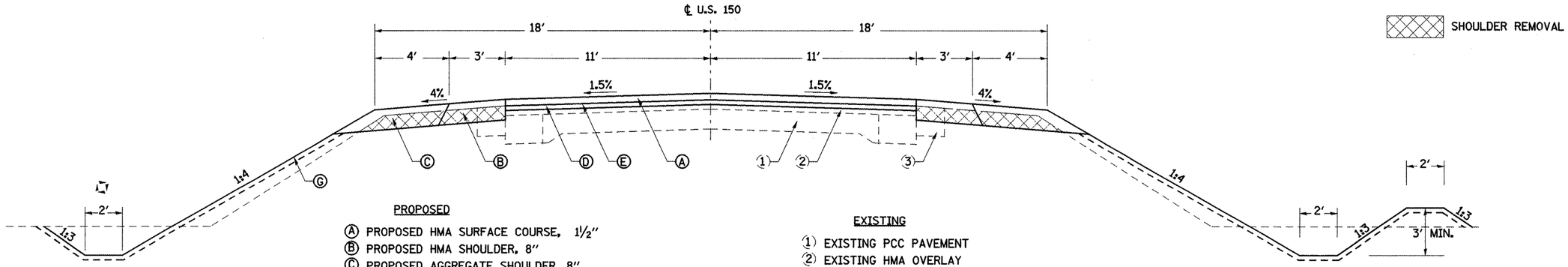
SUMMARY OF QUANTITIES

SCALE: | SHEET NO. OF SHEETS | STA. | TO STA.

F.A.S RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1190	(125BY)BR	KNOX	94	8
		CONTRACT NO. 68087		
	ILLINOIS FED. AID PROJECT			

SUMMARY OF QUANTITIES

Specialty_Item	PAY ITEM #	DESCRIPTION	UNIT	TOTAL QUANTITIES	0011 BRIDGE HENDERSON 80% FED. 20% STATE	0004 ROADWAY HENDERSON 80% FED. 20% STATE	0004 ROADWAY HENDERSON 100% STATE
	X2070304	POROUS GRANULAR EMBANKMENT, SPECIAL	CU YD	230	230		
	X2503100	MOWING	UNIT	26			26
	40600827	POLYMERIZED LEVELING BINDER (MACHINE METHOD), IL-4.75, N50	TON	100		100	
	X6062700	CONCRETE GUTTER, TYPE A (SPECIAL)	FOOT	350		350	
	Z0001002	GUARDRAIL AGGREGATE EROSION CONTROL	TON	125		125	
	Z0013798	CONSTRUCTION LAYOUT	L SUM	1		1	
	Z0022800	FENCE REMOVAL	FOOT	1640		1640	
	Z0023600	FILLING EXISTING CULVERTS	EACH	2		2	
	Z0030251	IMPACT ATTENUATORS, TEMPORARY (NON- REDIRECTIVE, NARROW), TEST LEVEL 3	EACH	2		2	
	Z0030352	IMPACT ATTENUATORS, RELOCATE (NON- REDIRECTIVE, NARROW), TEST LEVEL 3	EACH	2		2	
	Z0034105	MATERIAL TRANSFER DEVICE	TON	260		260	
	Z0046304	PIPE UNDERDRAINS FOR STRUCTURES 4"	FOOT	162	162		
	Z0073002	TEMPORARY SOIL RETENTION SYSTEM	SQ FT	1225	809	416	



PROPOSED

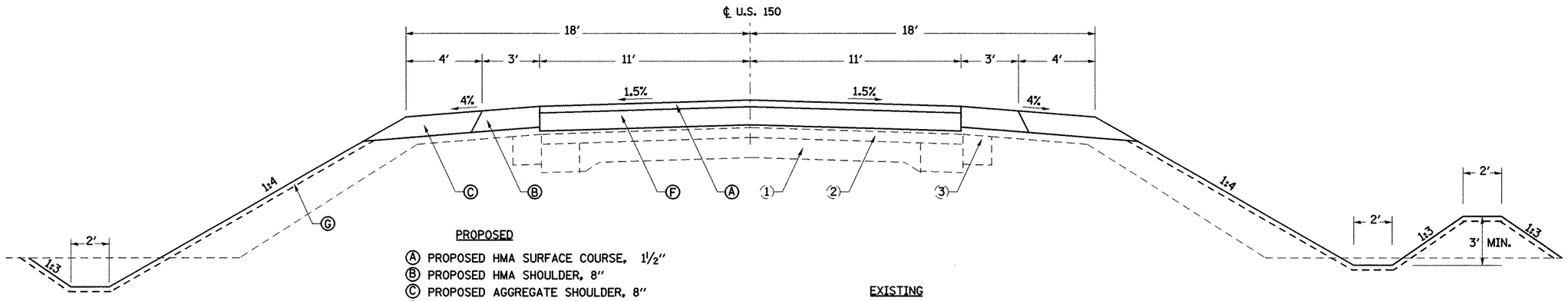
Ⓐ PROPOSED HMA SURFACE COURSE, 1½″
Ⓑ PROPOSED HMA SHOULDER, 8″
Ⓒ PROPOSED AGGREGATE SHOULDER, 8″
Ⓓ HMA SURFACE REMOVAL, 3/4″
Ⓔ PROPOSED LEVELING BINDER, ¾″
Ⓕ PROPOSED HMA BINDER COURSE
Ⓖ TOPSOIL, FURNISH AND PLACE, 4″

EXISTING

① EXISTING PCC PAVEMENT
② EXISTING HMA OVERLAY
③ EXISTING HMA SHOULDER

TYPICAL SECTION

STA. 142+00 TO STA. 148+00
STA. 152+00 TO STA. 156+50



PROPOSED

Ⓐ PROPOSED HMA SURFACE COURSE, 1½″
Ⓑ PROPOSED HMA SHOULDER, 8″
Ⓒ PROPOSED AGGREGATE SHOULDER, 8″
Ⓓ HMA SURFACE REMOVAL, 3/4″
Ⓔ PROPOSED LEVELING BINDER, ¾″
Ⓕ PROPOSED HMA BINDER COURSE
Ⓖ TOPSOIL, FURNISH AND PLACE, 4″

EXISTING

① EXISTING PCC PAVEMENT
② EXISTING HMA OVERLAY
③ EXISTING HMA SHOULDER

NOTE: NOT ALL STATIONS REQUIRE A BERM TO MAINTAIN DITCH FLOW, REFER TO CROSS SECTIONS FOR EXACT STATIONS

TYPICAL SECTION

STA. 148+00 TO STA. 149+65
STA. 151+77 TO STA. 153+00

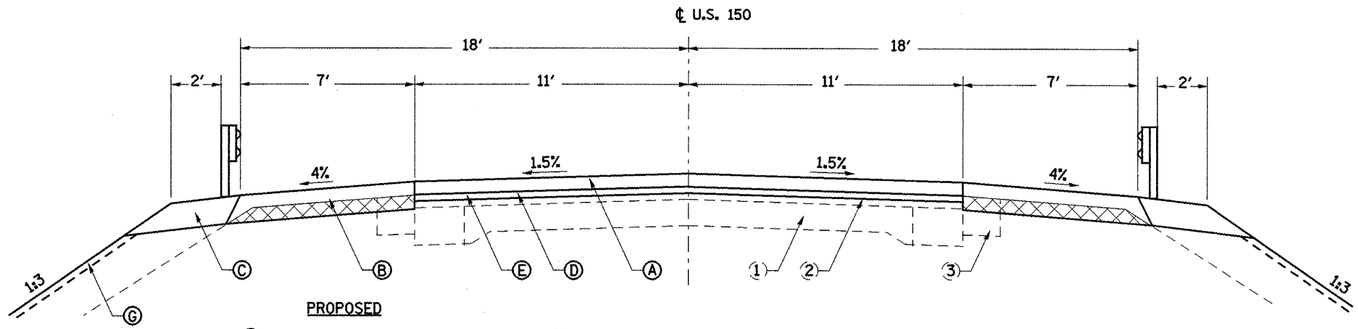
FILE NAME = Typical sections_01.dgn	USER NAME = lebabsdsm	DESIGNED -	REVISED -
		DRAWN -	REVISED -
	PLOT SCALE = 5.5809 ' / in.	CHECKED -	REVISED -
	PLOT DATE = 10/17/2011	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TYPICAL SECTION

SCALE: | SHEET NO. OF SHEETS | STA. | TO STA.

F.A.S RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1190	(125BY)BR	KNOX	94	10
		CONTRACT NO. 68087		
		ILLINOIS FED. AID PROJECT		



SHOULDER REMOVAL

PROPOSED

Ⓐ PROPOSED HMA SURFACE COURSE, 1½″
Ⓑ PROPOSED HMA SHOULDER, 8″
Ⓒ PROPOSED AGGREGATE SHOULDER, 8″
Ⓓ HMA SURFACE REMOVAL, 3/4″
Ⓔ PROPOSED LEVELING BINDER, ¾″
Ⓕ PROPOSED HMA BINDER COURSE
Ⓖ TOPSOIL, FURNISH AND PLACE, 4″

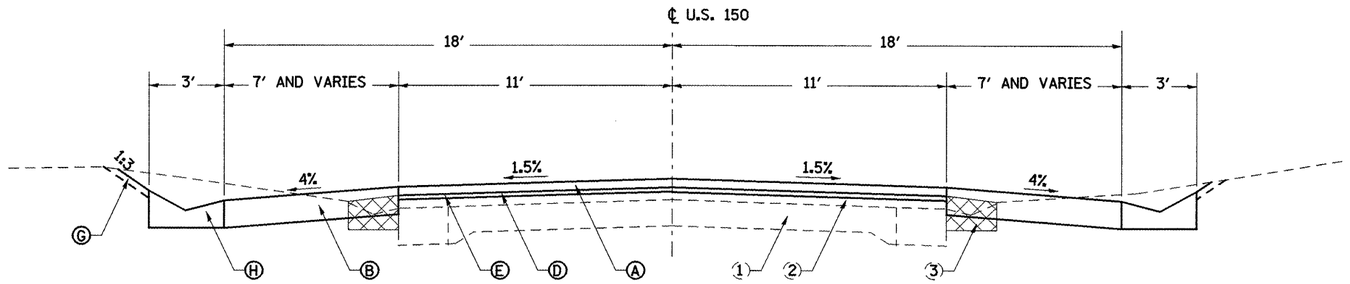
EXISTING

① EXISTING PCC PAVEMENT
② EXISTING HMA OVERLAY
③ EXISTING HMA SHOULDER

TYPICAL SECTION WITH GUARDRAIL

STA. 148+56 TO STA. 150+15 LT
STA. 151+23 TO STA. 153+69 LT
STA. 147+75 TO STA. 150+21 RT
STA. 151+30 TO STA. 152+36 RT

• IF STATION IS IN THE RANGE OF THE REQUIRED BINDER BUILD-UP (REFER TO SCHEDULE OF QUANTITIES)



PROPOSED

Ⓐ PROPOSED HMA SURFACE COURSE, 1½″
Ⓑ PROPOSED HMA SHOULDER, 8″
Ⓒ PROPOSED AGGREGATE SHOULDER, 8″
Ⓓ HMA SURFACE REMOVAL, 3/4″
Ⓔ PROPOSED LEVELING BINDER, ¾″
Ⓕ PROPOSED HMA BINDER COURSE
Ⓖ TOPSOIL, FURNISH AND PLACE, 4″
Ⓗ PROPOSED GUTTER, TYPE A

EXISTING

① EXISTING PCC PAVEMENT
② EXISTING HMA OVERLAY
③ EXISTING TY B GUTTER TO BE REMOVED

TYPICAL SECTION WITH GUTTER

STA. 153+75 TO STA. 156+50 LT
STA. 155+75 TO STA. 156+50 RT

FILE NAME = Typical sections_01.dgn	USER NAME = labbabdam	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	TYPICAL SECTION			F.A.S RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		DRAWN -	REVISED -					1190	(125BY)BR	KNOX	94	11
	PLOT SCALE = 5.5889 ' / in.	CHECKED -	REVISED -							CONTRACT NO. 68087		
	PLOT DATE = 10/17/2011	DATE -	REVISED -		SCALE:	SHEET NO. OF SHEETS	STA. TO STA.			ILLINOIS FED. AID PROJECT		

HMA QUANTITIES

LOCATION			AVE. WIDTH	LENGTH	AREA	HMA SURF. REM. BUTT-JOINT	TEMP RAMPS 3/4" (1:40)	HMA. SURF. REM. 3/4"	POLY. BIT. MAT. PRIME COAT	POLY. LEV. BIND. MM IL 4.75 N50 3/4"	HMA BINDER VAR. DEPTH (2.25" to 12") IL 19 N 50		HMA SURF. CSE MIX "D" N50 1 1/2"	HMA SHLDRS 8"	MATERIAL TRANSFER DEVICE (FOR SURF ONLY)	AGG. SHLDRS TY B 8"
			FT	FT	SQ YD	SQ YD	SQ YD	SQ YD	TON	TONS	AVG. THICKNESS	TONS	TONS	SQ YD	TONS	SQ YD
STA. 142+00	TO	STA. 142+30	22	30	73.3	75	13		SEE TABLE FOR DETAILED STATION AND QUANTITIES	3			6	SEE TABLE FOR DETAILED STATION AND QUANTITIES	6	SEE TABLE FOR DETAILED STATION AND QUANTITIES
STA. 142+30	TO	STA. 148+00	22	570	1393.3			1395		59			117		117	
STA. 148+00	TO	STA. 148+40	22	40	97.8	99	19				0.4620	23	8		8	
STA. 148+40	TO	STA. 149+65	22	125	305.6						0.4620	71	26		26	
BRIDGE OMISION STA. 149+65 TO STA. 151+77																
STA. 151+77	TO	STA. 152+36	22	59	144.2						0.4620	34	12		12	
STA. 152+36	TO	STA. 153+00	22	64	156.4	157					0.4620	36	13		13	
STA. 153+00	TO	STA. 156+20	22	320	782.2		19	785		33			66		66	
STA. 156+20	TO	STA. 156+50	22	30	73.3	75	13			3			6		6	
TOTAL					**3026**	**406**	**64**	**2180**	**3.50**	**100**	**164**		**260**	**1950**	**260**	**275**

POLY. BIT. MAT. PRIME COAT

LOCATION				AVE. WIDTH	LENGTH	AREA	TYPE OF SURFACE	APPLICATION RATE	TOTAL	
									MIANLINE	SHLDRS*
				FT	FT	SQ YD		TON / SQ YD	TON	TON
BUTT JOINTS; FOR BINDER COURSE (SEE DETAIL SHEET)	STA. 148+00	TO	STA. 148+40	36	40	160.00	MILLED SURFACE	0.00034	0.054	1.285
	STA. 152+36	TO	STA. 153+00	42	64	298.67	MILLED SURFACE	0.00034	0.102	
BUTT JOINTS; FOR SURFACE REMOVAL (SEE DETAIL SHEET)	STA. 142+00	TO	STA. 142+30	22	30	73.33	MILLED SURFACE	0.00034	0.025	
	STA. 156+20	TO	STA. 156+50	22	30	73.33	MILLED SURFACE	0.00034	0.025	
FOR BINDER COURSE	STA. 148+40	TO	STA. 149+65	36	125	500.00	EXISTING SURFACE	0.00022	0.110	
				36	125	500.00	2ND,3RD LIFTS	0.00022	0.220	
	STA. 151+77	TO	STA. 152+36	42	59	275.33	EXISTING SURFACE	0.00022	0.061	
				42	59	275.33	2ND,3RD LIFTS	0.00022	0.121	
FOR LEVELING BINDER	STA. 142+30	TO	STA. 148+00	22	570	1393.33	MILLED SURFACE	0.00034	0.474	
	STA. 153+00	TO	STA. 156+20	22	320	782.22	MILLED SURFACE	0.00034	0.266	
FOR SURFACE COURSE	STA. 142+00	TO	STA. 149+65	22	765	1870.00	NEW SURFACE	0.00022	0.411	
	STA. 151+77	TO	STA. 156+50	22	473	1156.22	NEW SURFACE	0.00022	0.254	
SUB-TOTAL									2.123	1.285
TOTAL									**3.50**	

* SEE - HMA SHLDRS 8" - TABLE FOR LOCATIONS AND QUANTITIES

APPLICATION RATE FOR POLYMERIZED BITUMINOUS MATERIALS (PRIME COAT)

SURFACE TYPE	ESTIMATED TRUCK APPLICATION RATE
MILLED (HMA or PCC)	0.08 GAL/SY (0.00034 TON/SY)
EXISTING PAVEMENT	0.05 GAL/SY (0.00022 TON/SY)
FOG COAT (BETWEEN LIFTS)	0.05 GAL/SY (0.00022 TON/SY)

FILE NAME = Schedule of Quantities ldgn	USER NAME = lababidism	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SCHEDULE OF QUANTITIES
		DRAWN -	REVISED -		
	PLOT SCALE = 100.000 ' / in.	CHECKED -	REVISED -		SCALE: SHEET NO. OF SHEETS STA. TO STA.
	PLOT DATE = 10/19/2011	DATE -	REVISED -		

F.A.S RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1190	(125BY)BR	KNOX	94	72
		CONTRACT NO. 68087		
		ILLINOIS FED. AID PROJECT		

HMA SHLDRS 8"

LOCATION				LENGTH	WIDTH	AREA	PRIME COAT*	HMA SHLDRS REMOVAL	HMA SHLDRS 8"
	STA.	TO	STA.	FT	FT	SQ YD	TON	SQ YD	SQ YD
LT	STA. 142+00	TO	STA. 142+57	57	3.0	19.0	0.013	19.0	19.0
	STA. 142+57	TO	STA. 143+02	45	10.0	50.0	0.033	50.0	50.0
	STA. 143+02	TO	STA. 145+60	258	3.0	86.0	0.057	86.0	86.0
	STA. 145+60	TO	STA. 150+33	473	7.0	367.9	0.243	367.9	367.9
	BRIDGE OMMISION								
	STA. 150+96	TO	STA. 155+50	454	7.0	353.1	0.233	353.1	353.1
	STA. 155+50	TO	STA. 156+50	100	3.5	38.9	0.026	38.9	38.9
								0.0	
RT	STA. 142+00	TO	STA. 142+45	45	3.0	15.0	0.010	15.0	15.0
	STA. 142+45	TO	STA. 142+90	45	10.0	50.0	0.033	50.0	50.0
	STA. 142+90	TO	STA. 145+24	234	3.0	78.0	0.051	78.0	78.0
	STA. 145+24	TO	STA. 150+34	510	7.0	396.7	0.262	396.7	396.7
	BRIDGE OMMISION								
	STA. 150+96	TO	STA. 151+30	34	7.0	26.4	0.017	26.4	26.4
	STA. 151+30	TO	STA. 152+43	113	9.5	119.3	0.079	119.3	119.3
	STA. 152+43	TO	STA. 153+43	100	12.0	133.3	0.088	133.3	133.3
	STA. 153+43	TO	STA. 154+28	85	7.0	66.1	0.044	66.1	66.1
	STA. 154+28	TO	STA. 154+47	19	10.0	21.1	0.014	21.1	21.1
	STA. 154+47	TO	STA. 156+10	163	7.0	126.8	0.084	126.8	126.8
TOTAL							**1.285**	**1950.0**	**1950.0**

* USED THREE APPLICATIONS

EARTH EXC. BETWEEN EX. & PROP. ABUTMENTS

LOCATION			LENGTH	AVG. DEPTH	AVG. X-SEC LENGTH		TOTAL FOR EACH STAGE
			FT	FT	FT		CY.YD.
STA. 150+15	To	STA. 150+34	19	11	40	=	310
STA. 150+96	To	STA. 151+24	28	11	40	=	460
TOTAL			**CY.YD.**				**770**
TOTAL PER STAGE			**CY.YD.**		**385**		

TREE REMOVAL (ACRES)*

LOCATION				ACRES
LT	STA. 142+00	To	STA. 150+00	0.65
	STA. 150+00	To	STA. 156+50	0.25
RT	STA. 142+00	To	STA. 150+00	0.59
	STA. 150+00	To	STA. 157+00	0.01
TOTAL				**1.50**

PERIMETER EROSION BARRIER

LOCATION				FT
LT	STA. 141+50	To	STA. 150+50	900
	STA. 151+00	To	STA. 157+00	600
RT	STA. 141+50	To	STA. 150+50	900
	STA. 151+00	To	STA. 157+00	600
TOTAL				**3000**

EARTHWORK QUANTITIES

STAGE I

LOCATION			EARTH EXCAVATION (CU YD)	EARTH EXCAVATION (ADJUSTED FOR SHRINKAGE) (CU YD)	EMBANKMENT (CU YD)	FURNISHED EXCAVATION (WASTE (+), SHORTAGE (-)) (CU YD)
			LT			
STA. 142+00	To	STA. 150+00	227	170	3539	-3369
STA. 151+50	To	STA. 156+50	291	218	0	218
EARTH EXC. BETWEEN EX. & PROP. ABUTMENTS STAGE I &II			385	289	0	289
SUB-TOTAL			**903**	**677**	**3539**	**-2863**

STAGE II

LOCATION			EARTH EXCAVATION (CU YD)	EARTH EXCAVATION (ADJUSTED FOR SHRINKAGE)	EMBANKMENT (CU YD)	FURNISHED EXCAVATION (WASTE (+), SHORTAGE(-))
			RT			
STA. 142+00	To	STA. 150+00	2	1	3671	-3670
STA. 151+50	To	STA. 156+50	237	178	24	154
EARTH EXC. BETWEEN EX. & PROP. ABUTMENTS STAGE I &II			385	289	0	289
SUB-TOTAL			**624**	**468**	**3695**	**-3227**
TOTAL (STAGE I & II)			**1527**	**1145**	**7234**	**-6090**

FURNISHED EXCAVATION = EMBANKMENT - (EXCAVATION X 0.75)

SHRINKAGE FACTOR = 25%

TOP SOIL FURNISH AND PLACE; 4" *

LOCATION				SQ YD
LT	STA. 142+00	To	STA. 150+00	5184
	STA. 151+00	To	STA. 156+50	6002
RT	STA. 142+00	To	STA. 150+00	5314
	STA. 151+00	To	STA. 156+50	5963
TOTAL				**22,462**

* AREAS ARE MEASURED IN CADD

FILE NAME = Schedule of Quantities.ldgn
USER NAME = lababidism
PLOT SCALE = 100.000 ' / in.
PLOT DATE = 10/19/2011
DESIGNED - DRAWN - CHECKED - DATE -
REVISED - REVISED - REVISED - REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SCHEDULE OF QUANTITIES

SCALE: | SHEET NO. OF SHEETS | STA. | TO STA.

F.A.S RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1190	(125BY)BR	KNOX	94	13
		CONTRACT NO. 68087		
		ILLINOIS FED. AID PROJECT		

Earth Work-Ditches and Foreslops (for information only)

LOCATION	DIST	LT CUT		LT FILL		RT CUT		RT FILL	
	FT	SQ FT	CU FT	SQ FT	CU FT	SQ FT	CU FT	SQ FT	CU FT
STA. 142+00		0		0		3.2		6.1	
STA. 142+35	34.61	3.1	53.6	5.1	88.3	0	55.4	79.5	1481.3
STA. 142+50	15.39	44.3	364.7	9.6	113.1	0	0.0	88	1288.9
STA. 143+00	50	0		265.5	6877.5	0	0.0	266.9	8872.5
STA. 143+40	40	6.7	134.0	210.8	9526.0	0	0.0	227	9878.0
STA. 143+50	10	4.3	55.0	222.7	2167.5	0	0.0	235	2310.0
STA. 144+00	50	1.6	147.5	220.51	11080.3	0	0.0	244.8	11995.0
STA. 144+50	50	0.3	47.5	205.5	10650.3	0	0.0	229.5	11857.5
STA. 145+00	50	0.54	21.0	172.3	9445.0	0	0.0	184.5	10350.0
STA. 145+50	50	3.9	111.0	134.7	7675.0	0	0.0	164.2	8717.5
STA. 146+00	50	7.4	282.5	107.1	6045.0	0	0.0	145.7	7747.5
STA. 146+50	50	8.8	405.0	95.8	5072.5	0	0.0	115.2	6522.5
STA. 147+00	50	9.5	457.5	85.6	4535.0	0	0.0	93.3	5212.5
STA. 147+50	50	10.6	502.5	77.3	4072.5	0	0.0	92	4632.5
STA. 148+00	50	10.4	525.0	69.1	3660.0	0	0.0	44	3400.0
STA. 148+50	50	14.9	632.5	50.9	3000.0	0	0.0	20.7	1617.5
STA. 149+00	50	16.6	787.5	69	2997.5	0	0.0	41.5	1555.0
STA. 149+50	50	18.2	870.0	79.2	3705.0	0	0.0	12.5	1350.0
STA. 150+00	50	10.7	722.5	114.7	4847.5	0	0.0	0.71	330.3
SUB-TOTAL	**CU YD**		**227**		**3539**		**2**		**3671**

Earth Work-Ditches and Foreslops (for information only)

STA. 151+50	0	36		0		31.4		0	
STA. 152+00	50	32.5	1712.5	0	0.0	35.8	1680.0	0	0.0
STA. 152+53	53	24.8	1518.5	0	0.0	0	948.7	0	0.0
STA. 153+00	47	27.9	1238.5	0	0.0	0	0.0	0	0.0
STA. 153+50	50	28.2	1402.5	0	0.0	6.6	165.0	0	0.0
STA. 154+00	50	4.8	825.0	0	0.0	6.4	325.0	0	0.0
STA. 154+38	38	2	129.2	0	0.0	0	121.6	0	0.0
STA. 154+50	12	3.2	31.2	0	0.0	0	0.0	20.9	125.4
STA. 155+00	50	3.7	172.5	0	0.0	9.2	230.0	0	522.5
STA. 155+50	50	7.1	270.0	0	0.0	41.1	1257.5	0	0.0
STA. 155+75	25	7.2	178.8	0	0.0	33.4	931.3	0	0.0
STA. 156+00	25	7.4	182.5	0	0.0	8.8	527.5	0	0.0
STA. 156+50	50	0	185.0	0	0.0	0	220.0	0	0.0
SUB-TOTAL	CU YD		291		0		237		24
TOTAL STAGE I & II	**CU YD**		**517**		**3539**		**239**		**3695**

FERTILIZER AND MULCH

LOCATION				AREA	PHOSPHORUS FERTILIZER NUTRIENT	POTASSIUM FERTILIZER NUTRIENT	NITROGEN FERTILIZER NUTRIENT	MULCH, METHOD 1
				SQ YD	POUND	POUND	POUND	ACRE
LT	STA. 142+00	To	STA. 150+00	1.071	96.39	96.39	96.39	1.071
	STA. 151+00	To	STA. 156+50	1.2400	111.6	111.6	111.60	1.24
RT	STA. 142+00	To	STA. 150+00	1.0980	98.82	98.82	98.82	1.098
	STA. 151+00	To	STA. 156+50	1.2320	110.88	110.88	110.88	1.232
TOTAL					**420**	**420**	**420**	**4.64**

* AREAS ARE MEASURED IN CADD

TEMPORARY EROSION CONTROL SEEDING*

LOCATION				AREA ACRES	TOTAL POUND
LT	STA. 142+00	To	STA. 150+00	1.071	107.1
	STA. 151+00	To	STA. 156+50	1.240	124
RT	STA. 142+00	To	STA. 150+00	1.098	109.8
	STA. 151+00	To	STA. 156+50	1.232	123.2
TOTAL				**4.64**	**465**

* APLICATION RATE: 100 LB/ACRE

SEEDING CLASS 3 (ACRES)*

LOCATION				ACRES
LT	STA. 142+00	To	STA. 150+00	1.071
	STA. 151+00	To	STA. 156+50	1.240
RT	STA. 142+00	To	STA. 150+00	1.098
	STA. 151+00	To	STA. 156+50	1.232
TOTAL				**4.64**

* AREAS ARE MEASURED IN CADD

INLET AND PIPE PROTECTION

LOCATION		TOTAL
RT/LT	STA.	EACH
RT	STA. 142+30	1
RT	STA. 153+30	1
RT	STA. 154+60	1
TOTAL		**3**

EROSION CONTROL BLANKET (SQ YD)

LOCATION				LENGTH FT	WIDTH FT	AREA SQ YD
RT	STA. 151+35	To	STA. 152+25	90	10	100
TOTAL						**100**

TEMPORARY DITCH CHECKS

LOCATION	TOTAL FOOT
JOB SITE	1460
TOTAL	**1460**

STONE RIPRAP, CLASS A3

LOCATION				LENGTH FT	WIDTH FT	AREA SQ YD
LT	STA. 143+46	To	STA. 143+69	23	15	40
RT	STA. 143+39	To	STA. 143+61	22	16	40
LT	STA. 151+25	To	STA. 153+75	250	16	450
LT	STA. 142+10	To	STA. 142+50	40	8	40
TOTAL						**570**

FILE NAME = Schedule of Quantities ldgn	USER NAME = lababidism	DESIGNED -	REVISED -
		DRAWN -	REVISED -
	PLOT SCALE = 100.000 ' / in.	CHECKED -	REVISED -
	PLOT DATE = 10/19/2011	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SCHEDULE OF QUANTITIES

SCALE: | SHEET NO. OF SHEETS | STA. TO STA.

F.A.S RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1190	(125BY)BR	KNOX	94	14
		CONTRACT NO. 68087		
		ILLINOIS FED. AID PROJECT		

GUARDRAIL

LOCATION				CALCULATED LENGTH	TRAFFIC BARRIER TERMINAL, TYPE 6 (43.75')	TRAFFIC BARRIER TERMINAL TYPE 1, SPECIAL (TANGENT	NUMBER / LENGTH OF 12.5' SECTIONS OF STEEL PLATE BEAM GUARD RAIL, TYPE A, 6 FOOT POSTS		TERMINAL MARKER - DIRECT APPLIED	GUARDRAIL MARKERS, TYPE A
				FT	EACH	EACH	# OF SEC'S	FT	EACH	EACH
NE	STA. 148+56	TO	STA. 150+12	156	1	1	5	62.5	1	2
SE	STA. 151+23	TO	STA. 153+69	246	1	1	12	150	1	3
NW	STA. 147+75	TO	STA. 150+21	246	1	1	12	150	1	3
SW *	STA. 151+30	TO	STA. 152+36	106	1	1	1	12.5	1	2
TOTAL					**4**	**4**	**30**	**375**	**4**	**10**

*** FLARED SECTION**

GUARDRAIL AGGREGATE EROSION CONTROL 8"

LOCATION				LENGTH	WIDTH	AREA	TOTAL
				FT	FT	SQ YD	TON
LT	STA. 148+62	TO	STA. 150+19	157	3	52.3	25.0
	STA. 151+23	TO	STA. 153+68	245	3	81.7	40.0
RT	STA. 147+68	TO	STA. 150+12	244	3	81.3	40.0
	STA. 151+30	TO	STA. 152+37	107	3	35.7	20.0
TOTAL							**125.0**

AGG. SHLDRS TY B 8"

LOCATION				LENGTH	WIDTH	AREA	AGG. SHLDRS 8"
	STA.	TO	STA.	FT	FT	SQ YD	SQ YD
LT	STA. 142+00	TO	STA. 142+63	63	4.0	28.0	28
	STA. 142+97	TO	STA. 145+60	263	4.0	116.9	117
RT	STA. 142+00	TO	STA. 142+50	50	4.0	22.2	22
	STA. 142+85	TO	STA. 145+24	239	4.0	106.2	106
TOTAL							**275**

AGGREGATE FOR TEMPORARY ACCESS*

LOCATION		AREA	THICKNESS	TOTAL
		SQ YD	IN	TON
RT	STA. 153+00	208	6	71
TOTAL				**75**

* AREA IS MEASURED IN CADD

DRIVEWAY PAVEMENT REMOVAL

LOCATION	AREA
	SQ YD
STA. 142+72 - 104' RT	50
TOTAL	**50**

AGGREGATE SURFACE COURSE, TY B*

LOCATION		AREA	THICKNESS 3"	TOTAL
		SQ FT	FT	TON
LT	STA. 142+75	1330	3	25
RT	STA. 142+67	1635	3	31
	STA. 152+53	2680	3	51
	STA. 154+38	535	3	10
TOTAL				**120**

* AREAS ARE MEASURED IN CADD

GUARDRAIL REMOVAL

LOCATION				LENGTH
				FT
LT	STA. 142+96	TO	STA. 150+33	737
	STA. 150+96	TO	STA. 151+60	64
RT	STA. 142+96	TO	STA. 150+33	737
	STA. 150+95	TO	STA. 151+60	65
TOTAL				**1603**

PAVEMENT REMOVAL

LOCATION			LENGTH	WIDTH	AREA
			FT	FT	SQ YD
STA. 149+65	To	STA. 150+34	69	22	169
STA. 150+96	To	STA. 151+77	81	22	198
TOTAL					**370**

REMOVING INLETS

LOCATION	OFFSET, RT/LT	EACH
STA. 142+60	40' LT	1
STA. 151+29	18.5' LT	1
STA. 151+32	17.6' RT	1
TOTAL		**3**

GUTTER REMOVAL

LOCATION				LENGTH
				FT
LT	STA. 151+25	To	STA. 156+50	525
RT	STA. 151+30	To	STA. 156+50	520
TOTAL				**1045**

FILE NAME = Schedule of Quantities 1.dgn	USER NAME = lababidism	DESIGNED -	REVISED -
		DRAWN -	REVISED -
	PLOT SCALE = 100.000 ' / in.	CHECKED -	REVISED -
	PLOT DATE = 10/19/2011	DATE	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SCHEDULE OF QUANTITIES

SCALE: | SHEET NO. OF SHEETS | STA. | TO STA.

F.A.S RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1190	(125BY)BR	KNOX	94	15
		CONTRACT NO. 68087		
		ILLINOIS FED. AID PROJECT		

FENCE REMOVAL				
LOCATION				FT
LT	STA. 142+05	TO	STA. 142+70	87
LT	STA. 143+17	TO	STA. 149+69	751
RT	STA. 142+09	TO	STA. 142+52	77
RT	STA. 143+00	TO	STA. 149+14	680
RT	STA. 155+27	TO	STA. 155+66	45
TOTAL				1640

PIPE CULVERT REMOVAL		
LOCATION	OFFSET, RT/LT	FT
STA. 152+14	36' RT	65
STA. 154+38	29.6' LT	31
TOTAL		96

FILLING EXISTING CULVERTS		
LOCATION	OFFSET, RT/LT	EACH
STA. 142+80	42.6' LT	1
STA. 142+67	47.3' RT	1
TOTAL		2

METAL END SECTIONS (12")		
LOCATION	OFFSET, RT/LT	EACH
STA. 149+98	44' LT	1
STA. 150+05	44' RT	1
TOTAL		2

PIPE DRAINS - 12"				
LOCATION			RT/LT	LENGTH FT
STA. 149+98	TO	STA. 149+98	LT	45
STA. 150+05	TO	STA. 150+05	RT	15
TOTAL				60

PRECAST REINFORCED CONCRETE FLARED END SECTION - 15"		
LOCATION	OFFSET, RT/LT	EACH
STA. 154+22	32' RT	1
STA. 154+62	32' RT	1
TOTAL		2

PRECAST REINFORCED CONCRETE FLARED END SECTION - 18"		
LOCATION	OFFSET, RT/LT	EACH
STA. 152+26	35.5' RT	1
STA. 153+22	35.5' RT	1
TOTAL		2

PRECAST REINFORCED CONCRETE FLARED END SECTION - 24"		
LOCATION	OFFSET, RT/LT	EACH
STA. 142+50	47' LT	1
STA. 143+40	87'LT	1
STA. 142+35	50'RT	1
STA. 143+40	83' RT	1
TOTAL		4

CONCRETE THRUST BLOCKS		
LOCATION	OFFSET, RT/LT	EACH
STA. 149+97	16' LT	1
STA. 150+05	16' RT	1
TOTAL		2

CONCRETE HEADWALL FOR PIPE DRAINS - 4"		
LOCATION	OFFSET, RT/LT	EACH
STA. 149+78	40' LT	1
STA. 151+25	40'LT	1
STA. 150+06	50'RT	1
STA. 151+40	40' RT	1
TOTAL		4

PIPE CULVERTS, CLASS D, TYPE 1 15"				
LOCATION			OFFSET, RT/LT	LENGTH FT
STA. 154+22	TO	STA. 154+62	32' LT	40
TOTAL				40

PIPE CULVERTS, CLASS D, TYPE 1 18"				
LOCATION			OFFSET, RT/LT	LENGTH FT
STA. 152+26	TO	STA. 153+22	35.5' RT	96
TOTAL				96

PIPE CULVERTS, CLASS D, TYPE 1 24"				
LOCATION			OFFSET, RT/LT	LENGTH FT
STA. 142+50	TO	STA. 143+15	47'/ 84' LT	65
STA. 143+15	TO	STA. 143+40	59'/ 87' LT	52
STA. 142+35	TO	STA. 142+90	50' / 55' RT	55
STA. 142+90	TO	STA. 143+40	55' / 83' RT	58
TOTAL				230

TYPE D INLET BOX, STANDARD 609006		
LOCATION	OFFSET, RT/LT	EACH
STA. 149+97	16' LT	1
STA. 150+05	16' RT	1
TOTAL		2

MANHOLES, TYPE A, 4'-DIAMETER, WITH MEDIAN INLET (604101)		
LOCATION	OFFSET, RT/LT	EACH
STA. 143+00	59' LT	1
STA. 142+90	55' LT	1
TOTAL		2

BRIDGE APPROACH PAVEMENT CONNECTOR					
LOCATION			LENGTH	WIDTH	AREA
			FT	FT	SQ YD
STA. 149+65	To	STA. 149+85	20	36	80
STA. 151+57	To	STA. 151+77	20	36	80
TOTAL					160

CONCRETE GUTTER, TYPE A (SPECIAL)				
LOCATION				LENGTH
				FT
LT	STA. 153+75	To	STA. 156+50	275
RT	STA. 155+75	To	STA. 156+50	75
TOTAL				350

TEMPORARY CONCRETE BARRIER				
LOCATION				FT
STAGE I	STA. 147+25	TO	STA. 153+75	650
TOTAL				650

RELOCATE TEMPORARY CONCRETE BARRIER				
LOCATION				FT
STAGE II	STA. 147+25	TO	STA. 153+75	650
TOTAL				650

TRAFFIC CONTROL AND PROTECTION, STANDARD 701201	
LOCATION	L SUM
JOB SITE	1
TOTAL	1

TRAFFIC CONTROL AND PROTECTION, STANDARD 701321	
LOCATION	EACH
JOB SITE	1
TOTAL	1

TRAFFIC CONTROL AND PROTECTION, STANDARD 701326	
LOCATION	L SUM
JOB SITE	1
TOTAL	1

TRAFFIC CONTROL SURVEILLANCE	
LOCATION	CAL DAYS
JOB SITE	60
TOTAL	60

MOBILIZATION	
LOCATION	L SUM
JOB SITE	1
TOTAL	1

IMPACT ATTENUATORS, RELOCATE (NON- REDIRECTIVE, NARROW), TEST LEVEL 3		
LOCATION		EACH
STAGE II	STA. 147+20	1
	STA. 153+80	1
TOTAL		2

IMPACT ATTENUATORS, TEMPORARY (NON- REDIRECTIVE, NARROW), TEST LEVEL 3		
LOCATION		EACH
STAGE I	STA. 147+20	1
	STA. 153+80	1
TOTAL		2

TEMPORARY SOIL RETENTION SYSTEM							
LOCATION			TOP WIDTH	DEPTH	OFFSET	BOTTOM WIDTH	AREA
			FT	FT	FT	FT	SQ FT
STA. 142+76	TO	STA. 143+05	29.00	10.00	51' RT	9.00	190.00
STA. 143+00	TO	STA. 143+32	32.00	11.00	37' LT	9.00	226.00
TOTAL							416.00

CONSTRUCTION LAYOUT	
LOCATION	L SUM
JOB SITE	1
TOTAL	1

ENGINEER'S FIELD OFFICE, TYPE A	
LOCATION	CAL MO
JOB SITE	9
TOTAL	9

TEMPORARY BRIDGE TRAFFIC SIGNALS	
LOCATION	EACH
JOB SITE	1
TOTAL	1

PORTLAND CEMENT CONCRETE DRIVEWAY PAVEMENT, 8 INCH					
LOCATION			LENGTH	WIDTH	AREA
			FT	FT	SQ YD
STA. 010+00	TO	STA. 010+80	80.00	12.00	106.67
TOTAL					106.70

MOWING	
LOCATION	UNIT
JOB SITE	26
TOTAL	26

CHANGEABLE MESSAGE SIGN	
LOCATION	CAL MO
2 BOARDS FOR 1 WEEK EACH	0.50
TOTAL	0.50

FILE NAME = Schedule of Quantities 1.dgn	USER NAME = lababidism	DESIGNED -	REVISED -
		DRAWN -	REVISED -
	PLOT SCALE = 100.000 ' / in.	CHECKED -	REVISED -
	PLOT DATE = 10/19/2011	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SCHEDULE OF QUANTITIES

SCALE: | SHEET NO. OF SHEETS | STA. | TO STA.

F.A.S RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1190	(125BY)BR	KNOX	94	17
		CONTRACT NO. 68087		
	ILLINOIS FED. AID PROJECT			

TABULATION OF PAVEMENT MARKING QUANTITIES

LOCATION				EPOXY PAVEMENT MARKING - LINE 4"		SHORT TERM PAVEMENT MARKING	WORK ZONE PAVEMENT MARKING REMOVAL	TEMPORARY PAVEMENT MARKING - LINE 4"	
				FT	FT	FT	SQ FT	FT	FT
				YELLOW	WHITE			YELLOW	WHITE
EDGE LINE RT/LT	STA. 142+00	TO	STA. 156+50		2900	580	48		2900
LT CENTER LINE	STA. 142+00	TO	STA. 146+50	450				450	
RT CENTER LINE	STA. 151+00	TO	STA. 156+50	550				550	
SKIP CNTER LINE	STA. 142+00	TO	STA. 156+50	365				365	
			SUB-TOTAL	1365	2900	580	48	1365	2900
TOTAL				**4265**		**580**	**48**	**4265**	

FURNISHING AND ERECTING RIGHT-OF-WAY MARKERS

LOCATION	OFFSET	LT/RT	EACH
STA. 142+00	40.09	LT	1
STA. 143+10	100.00		1
STA. 143+50	110.00		1
STA. 146+00	85.00		1
STA. 149+40	85.00		1
STA. 150+74	130.57		1
STA. 151+39	130.60		1
STA. 152+00	45.00		1
STA. 154+00	45.00		1
STA. 145+42	40.77		1
STA. 141+80	39.94	RT	1
STA. 142+90	130.00		1
STA. 142+98	127.49		1
STA. 143+50	110.00		1
STA. 147+36	80.00		1
STA. 150+15	80.00		1
STA. 150+95	64.42		1
TOTAL			**17**

PERMANENT SURVEY MARKERS, TYPE I

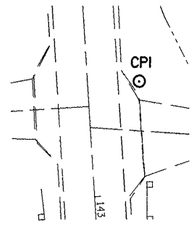
LOCATION	EACH
ON STRUCTURE AS DIRECTED BY THE ENGINEER	1
TOTAL	**1**

LAY OUT INFORMATION FOR THE PRIVATE ENTRANCE AT STA. 153+00

SEGMENT	ELEMENT								
	RADIUS					LINE			
	R	PC		PT		BEGINNING		END	
	FT	STA.	OFFSET	STA.	OFFSET	STA.	OFFSET	STA.	OFFSET
A	20	STA. 125+25	11.0	STA. 152+32	49.6				
B						STA. 152+32	49.58	STA. 151+97	63.8
C	70	STA. 151+97	63.8	STA. 151+65	88.7				
D	55	STA. 151+75	95.6	STA. 152+20	73.6				
E	50	STA. 152+20	73.6	STA. 152+61	54.2				
F	75	STA. 152+61	54.2	STA. 153+20	25.0				
G	40	STA. 153+20	25.0	STA. 153+50	11.0				

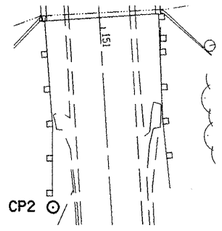
THIS TABLE IS USED ON THE PLAN 01 SHEET ONLY NOT AS A PART OF THE SCHEDULE

CP 1
STATION - 142+59.44 OFFSET - 18.66' LT NORTHING - 1603883.53 EASTING - 2237185.70



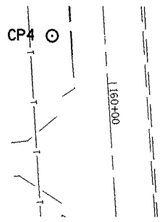
5/8" IRON ROD - 40' NORTH OF THE NORTH END OF EAST GUARDRAIL EAST SIDE OF US 150

CP 2
STATION - 151+63.03 OFFSET - 20.81 RT NORTHING - 1602979.24 EASTING - 2237202.88



5/8" IRON ROD - SOUTH END OF WEST GUARDRAIL WEST SIDE OF US 150

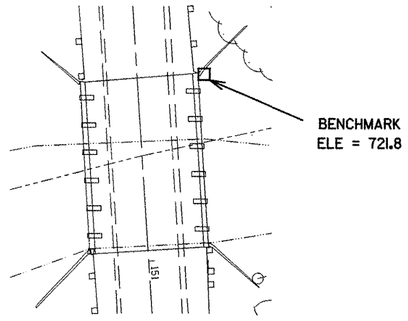
CP 4
STATION - 159+81.84 OFFSET - 18.84 RT NORTHING - 1602162.16 EASTING - 2237256.10

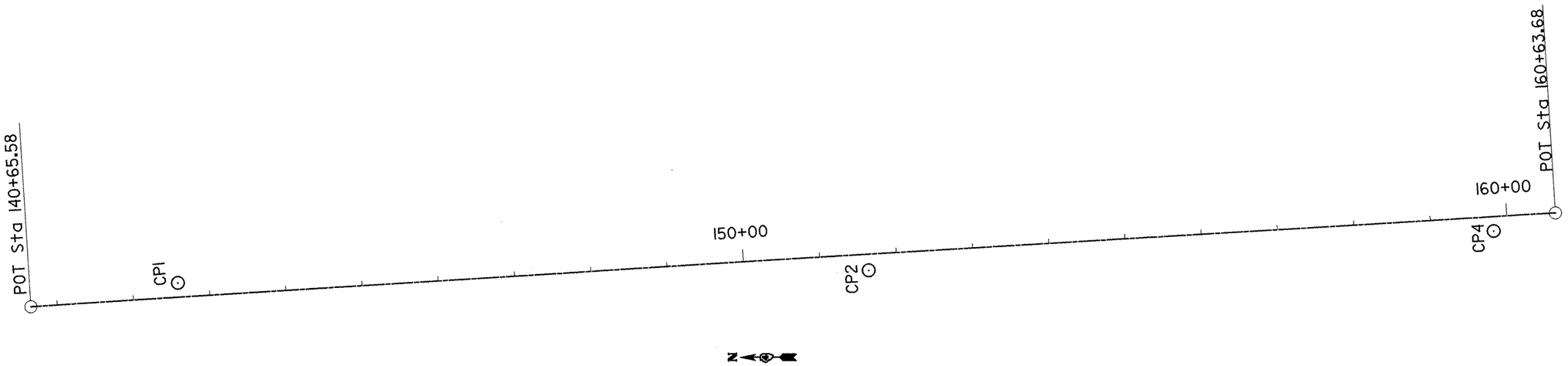


5/8" IRON ROD - SOUTH END OF PROJECT WEST SIDE OF US 150

BENCHMARK

CHISELED SQUARE ON NORTHEAST CORNER OF ABUTMENT (SN 048-0027), ELEVATION 721.80





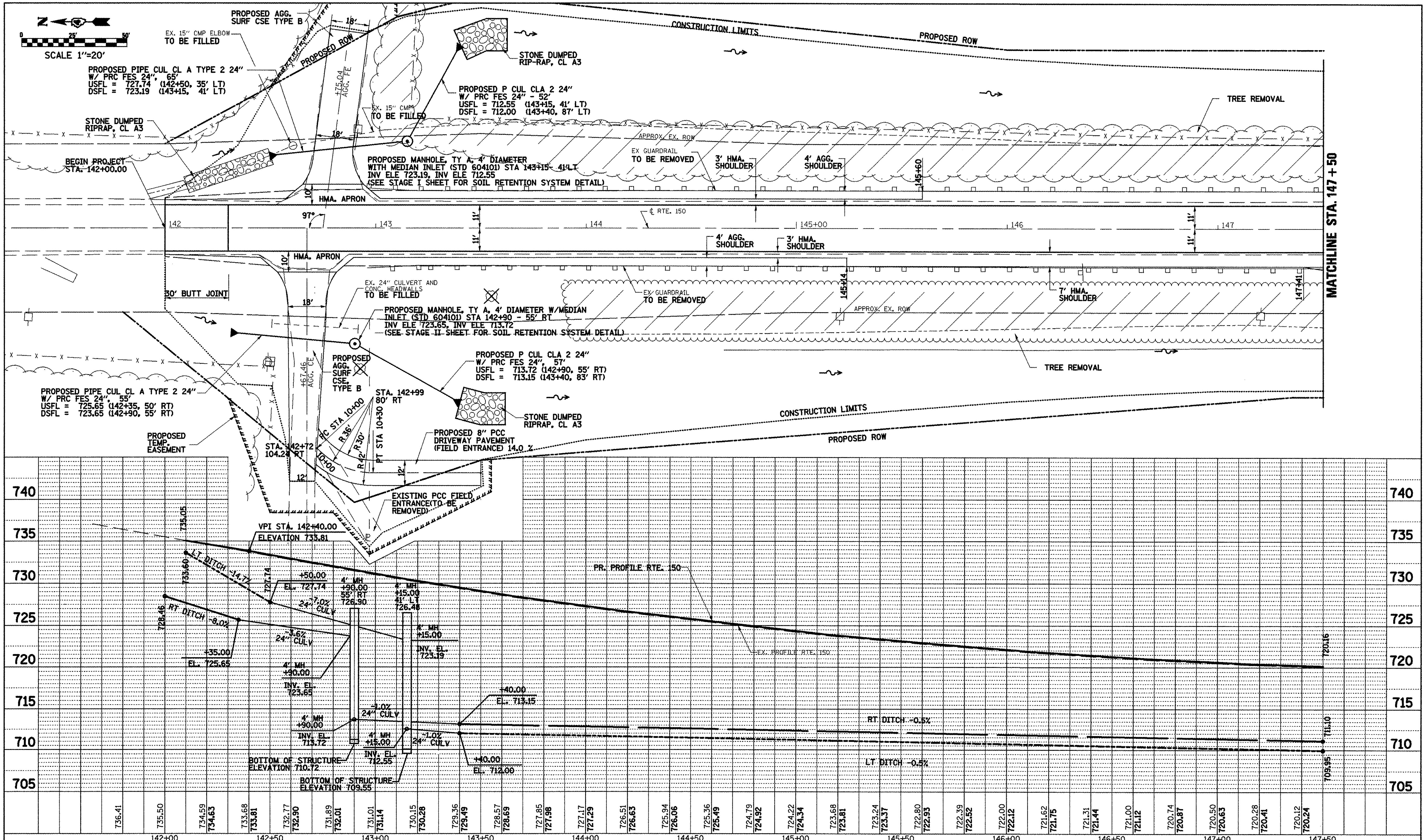
FILE NAME = Cover Sheet, District Std, General Notes _phase1.dgn	USER NAME = lababidism	DESIGNED -	REVISED -
		DRAWN -	REVISED -
	PLOT SCALE = 100.0000 ' / in.	CHECKED -	REVISED -
	PLOT DATE = 10/17/2011	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ALIGNMENT, TIES, & BENCHMARKS

SCALE: | SHEET NO. OF SHEETS | STA. TO STA.

F.A.S RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1190	(125BY)BR	KNOX	94	19
		CONTRACT NO. 68087		
		ILLINOIS FED. AID PROJECT		



SCALE 1"=20'
PROPOSED AGG. SURF CSE TYPE B
EX. 15" CMP ELBOW TO BE FILLED
PROPOSED PIPE CUL CL A TYPE 2 24" W/ PRC FES 24", 65' USFL = 727.74 (142+50, 35' LT) DSFL = 723.19 (143+15, 41' LT)
STONE DUMPED RIPRAP, CL A3
BEGIN PROJECT STA. 142+00.00
PROPOSED ROW
CONSTRUCTION LIMITS
STONE DUMPED RIP-RAP, CL A3
PROPOSED P CUL CLA 2 24" W/ PRC FES 24" - 52' USFL = 712.55 (143+15, 41' LT) DSFL = 712.00 (143+40, 87' LT)
EX. 15" CMP TO BE FILLED
TREE REMOVAL
APPROX EX. ROW
PROPOSED MANHOLE, TY A, 4' DIAMETER WITH MEDIAN INLET (STD 604101) STA 143+15- 41'LT INV ELE 723.19, INV ELE 712.55 (SEE STAGE I SHEET FOR SOIL RETENTION SYSTEM DETAIL)
EX GUARDRAIL TO BE REMOVED
3' HMA. SHOULDER
4' AGG. SHOULDER
HMA. APRON
℄ RTE. 150
142
143
144
145+00
146
147
4' AGG. SHOULDER
3' HMA. SHOULDER
30' BUTT JOINT
EX. 24" CULVERT AND CONC. HEADWALLS TO BE FILLED
PROPOSED MANHOLE, TY A, 4' DIAMETER W/MEDIAN INLET (STD 604101) STA 142+90 - 55' RT INV ELE 723.65, INV ELE 713.72 (SEE STAGE II SHEET FOR SOIL RETENTION SYSTEM DETAIL)
EX GUARDRAIL TO BE REMOVED
7' HMA. SHOULDER
MATCHLINE STA. 147+50
PROPOSED AGG. SURF CSE. TYPE B
STA. 142+99 80' RT
PROPOSED P CUL CLA 2 24" W/ PRC FES 24", 57' USFL = 713.72 (142+90, 55' RT) DSFL = 713.15 (143+40, 83' RT)
STONE DUMPED RIPRAP, CL A3
PROPOSED PIPE CUL CL A TYPE 2 24" W/ PRC FES 24", 55' USFL = 725.65 (142+35, 50' RT) DSFL = 723.65 (142+90, 55' RT)
PROPOSED TEMP. EASEMENT
PROPOSED 8" PCC DRIVEWAY PAVEMENT (FIELD ENTRANCE) 14.0 %
STA. 142+72 104.24' RT
EXISTING PCC FIELD ENTRANCE(TO BE REMOVED)
VPI STA. 142+40.00 ELEVATION 733.81
LT DITCH -14.7%
RT DITCH -8.0%
PR. PROFILE RTE. 150
EX. PROFILE RTE. 150
RT DITCH -0.5%
LT DITCH -0.5%
+50.00 EL. 727.74
4' MH +90.00 55' RT 726.90
4' MH +15.00 41' LT 726.48
4' MH +15.00 INV. EL. 723.19
+35.00 EL. 725.65
4' MH +90.00 INV. EL. 723.65
+40.00 EL. 713.15
4' MH +90.00 INV. EL. 713.72
4' MH +15.00 INV. EL. 712.55
+40.00 EL. 712.00
BOTTOM OF STRUCTURE ELEVATION 710.72
BOTTOM OF STRUCTURE ELEVATION 709.55
740
735
730
725
720
715
710
705
142+00
142+50
143+00
143+50
144+00
144+50
145+00
145+50
146+00
146+50
147+00
147+50

FILE NAME = mkesht01.dgn	USER NAME = lababidism	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	PLAN AND PROFILE	F.A.S RTE. 1190	SECTION (125BY)BR	COUNTY KNOX	TOTAL SHEETS 94	SHEET NO. 20
	PLOT SCALE = 42.353 ' / in.	DRAWN -	REVISED -			STA 142+00 TO STA 147+50		CONTRACT NO. 68087		
	PLOT DATE = 10/18/2011	CHECKED -	REVISED -		SCALE:	SHEET NO. 1 OF 3 SHEETS	STA. 142+00 TO STA. 147+50	ILLINOIS FED. AID PROJECT		
		DATE -	REVISED -							

SEGMENT	LAY OUT INFORMATION FOR THE PRIVATE ENTRANCE AT STA. 153+00								
	ELEMENT								
	RADUIS					LINE			
	R	PC		PT		BEGINNING		END	
	FT	STA.	OFFSET	STA.	OFFSET	STA.	OFFSET	STA.	OFFSET
Ⓐ	20	STA. 125+43	23.0	STA. 152+32	49.6				
Ⓑ						STA. 152+32	49.58	STA. 151+97	63.8
Ⓒ	70	STA. 151+97	63.8	STA. 151+65	88.7				
Ⓓ	55	STA. 151+75	95.6	STA. 152+20	73.6				
Ⓔ	50	STA. 152+20	73.6	STA. 152+61	54.2				
Ⓕ	75	STA. 152+61	54.2	STA. 153+20	25.0				
Ⓖ	40	STA. 153+20	23.0	STA. 153+32	11.0				

PLAN: NOTE BOOK NO. ___ SURVEYED / PLOTTED / ALIGNMENT CHECKED / R.T. OF WAY CHECKED / CADD FILE NAME — DATE / BY

PROFILE: NOTE BOOK NO. ___ SURVEYED / PLOTTED / GRADES CHECKED / B.M. NOTED / STRUCTURE NOTATI'NS CHK'D — DATE / BY

FILE NAME = mikesht01.dgn	USER NAME = lababidism	DESIGNED -	REVISED -
		DRAWN -	REVISED -
	PLOT SCALE = 42.353 ' / in.	CHECKED -	REVISED -
	PLOT DATE = 10/17/2011	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

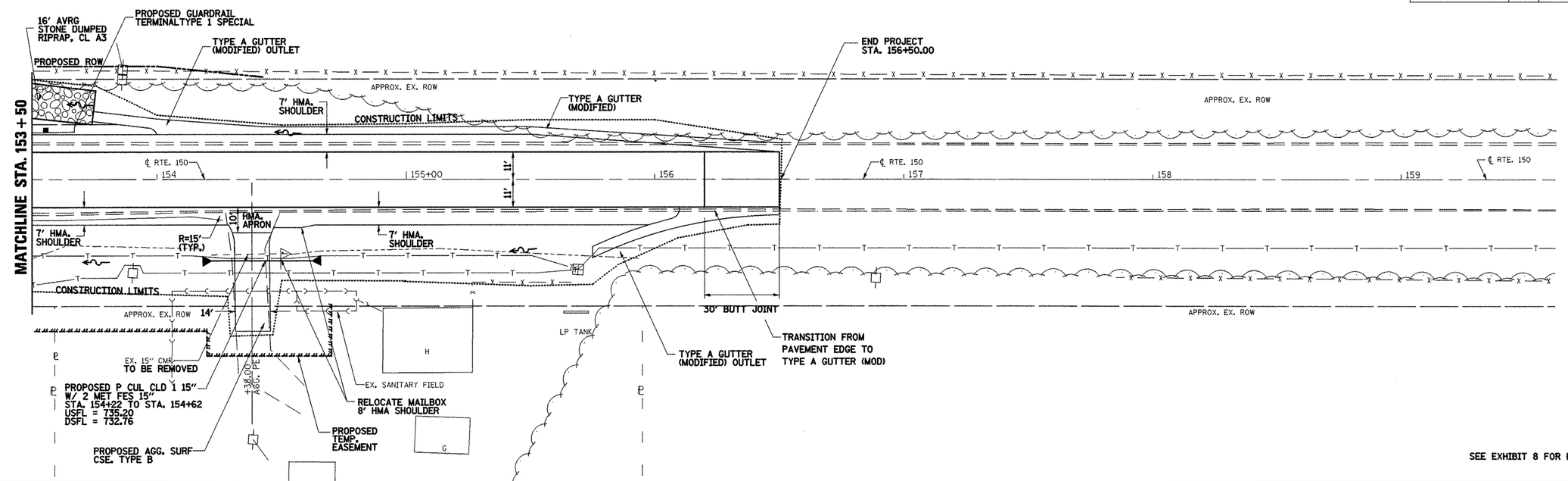
PLAN AND PROFILE

SCALE: | SHEET NO. 2 OF 3 SHEETS | STA. 147+50 TO STA. 153+50

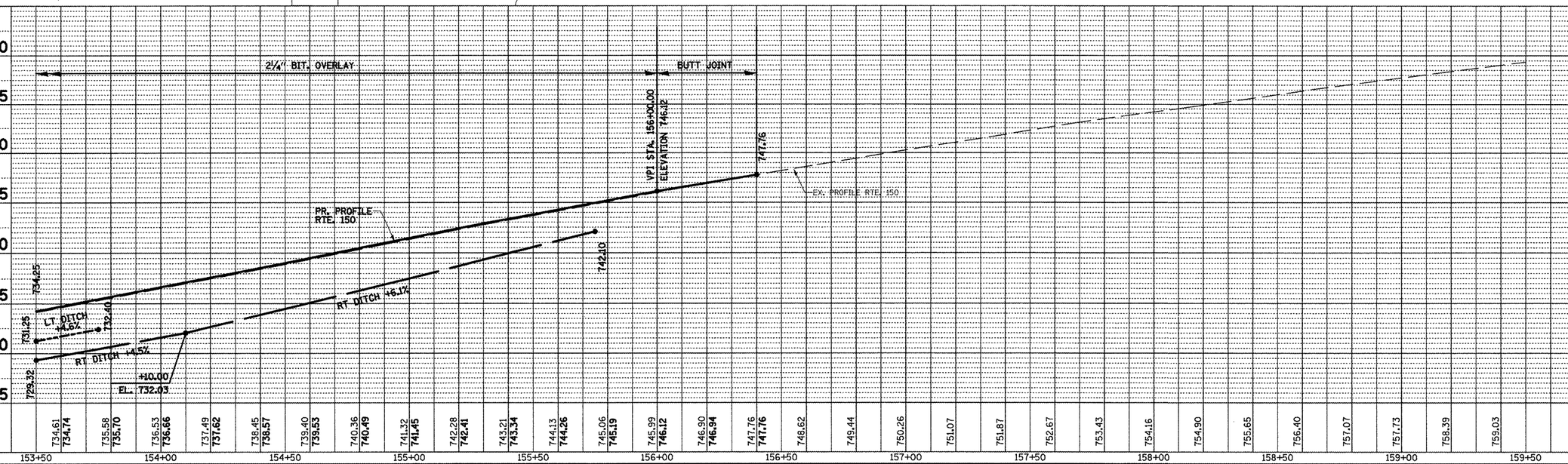
F.A.S RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1190	(125BY)BR	KNOX	94	21
STA 147+50 TO STA 153+50		CONTRACT NO. 68087		
		ILLINOIS FED. AID PROJECT		

F.A.S RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1190	(125BY)BR,(125-B)BR	KNOX		
STA. 153+50		TO STA. 159+00		
FED. AID PROJECT	ILLINOIS	CONTRACT NO. 68087		

SCALE 1"=20'



SEE EXHIBIT 8 FOR R.O.W.



FILE NAME = mkesht01.dgn	USER NAME = lebabidam	DESIGNED -	REVISED -
		DRAWN -	REVISED -
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	PLOT DATE = 10/17/2011	DATE -	REVISED -

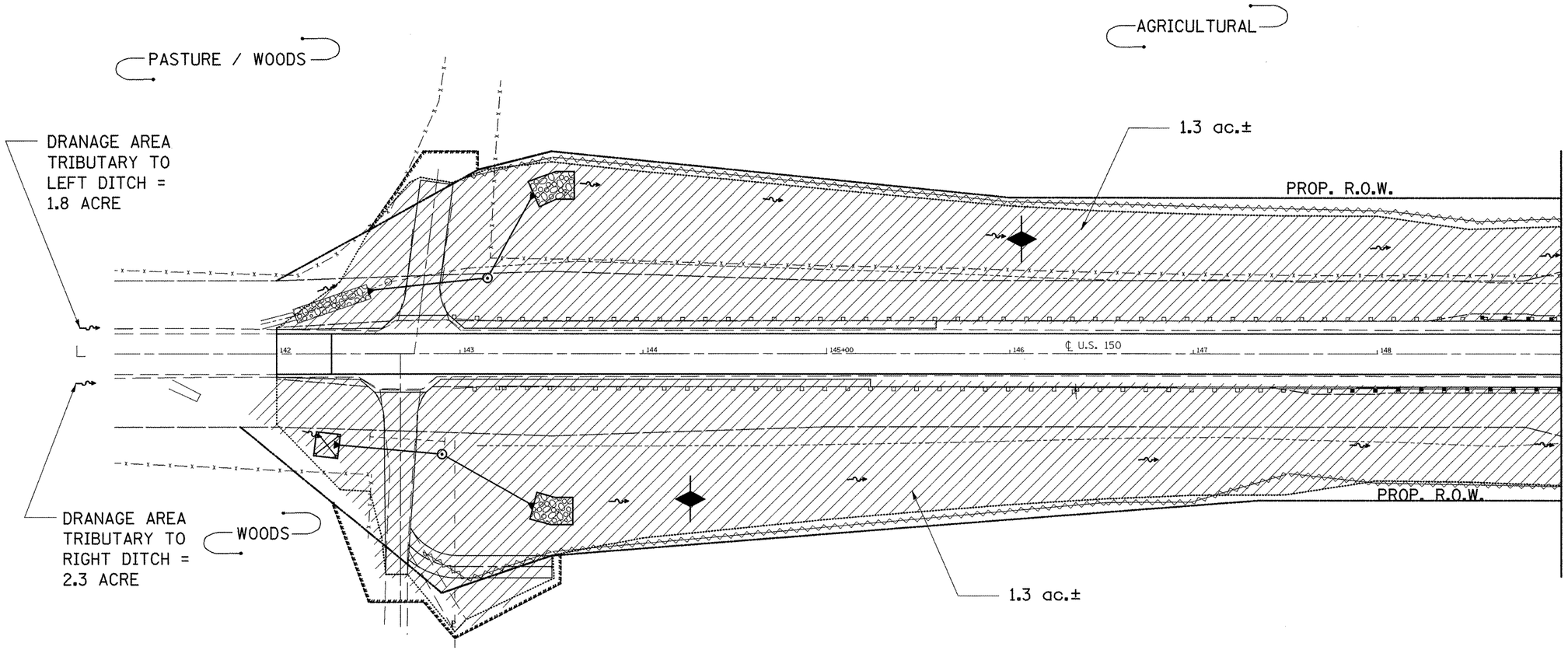
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PLAN AND PROFILE

SCALE: | SHEET NO. 3 OF 3 SHEETS | STA. 153+50 TO STA. 156+50

F.A.S RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1190	(125BY)BR	KNOX	94	22
STA 153+50 TO STA 159		CONTRACT NO. 68087		
ILLINOIS	FED. AID PROJECT			

PLAN / PROFILE
REVISED
PLOTTED
ALIGNMENT CHECKED
GRADES CHECKED
STRUCTURE NOTATNS CKD
NOTE BOOK
NO.
BY
DATE
CADD FILE NAME



LEGEND

- TEMPORARY DITCH CHECK *
- INLET & CULVERT PROTECTION
- PERIMETER EROSION BARRIER
- AREA OF SOIL DISTURBANCE
- CONSTRUTION LIMITS
- STONE DUMPED RIPRAP

N

0 50′ 100′

* TEMPORARY DITCH CHECKS ARE INSTALED AT 50′ INTERVALES

FILE NAME = erosion control.dgn	USER NAME = labebidism	DESIGNED -	REVISED -
		DRAWN -	REVISED -
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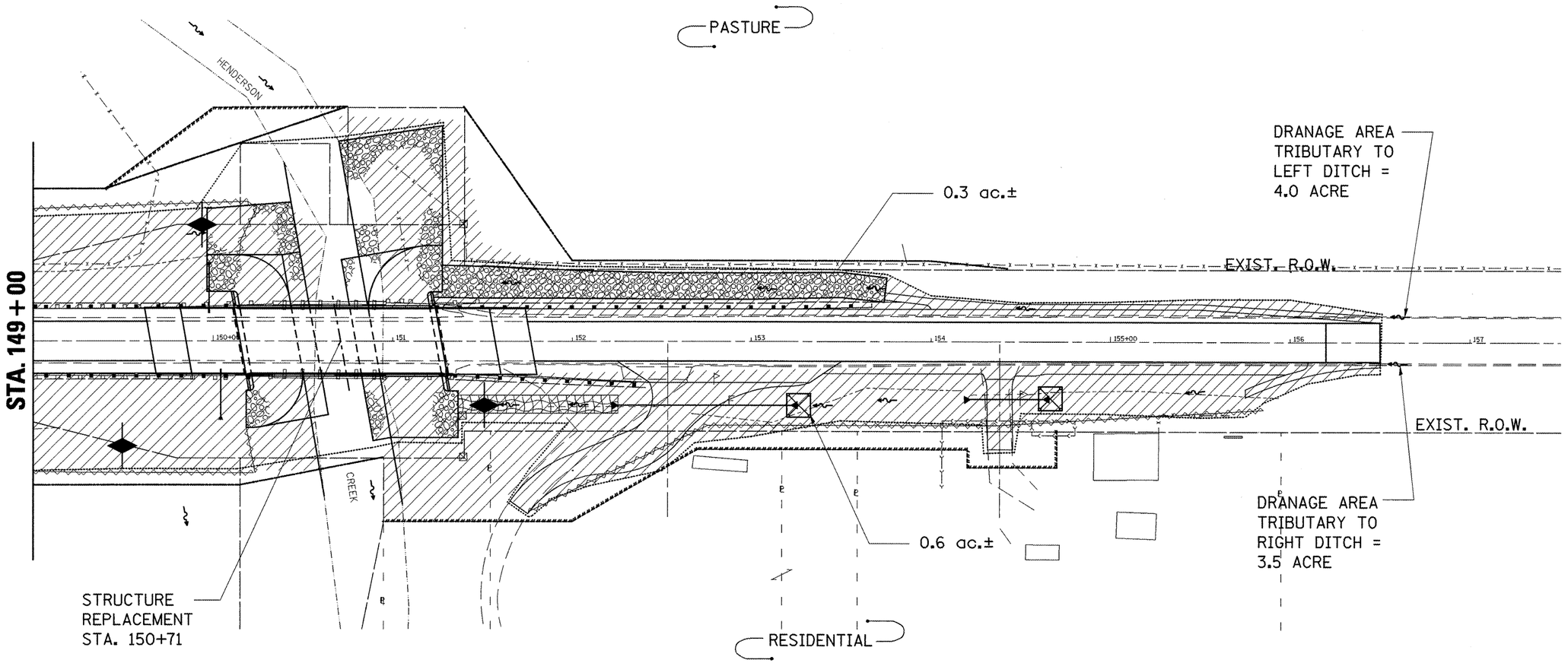
	PLOT DATE = 10/17/2011	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EROSION AND SEDIMENT CONTROL PLAN

SCALE: | SHEET NO. 1 OF 1 SHEETS | STA. 142+00 TO STA. 156+50

F.A.S RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1190	(125BY)BR	KNOX	94	23
		CONTRACT NO. 68087		
		ILLINOIS FED. AID PROJECT		



LEGEND

- TEMPORARY DITCH CHECK *
- INLET & CULVERT PROTECTION
- PERIMETER EROSION BARRIER
- AREA OF SOIL DISTURBANCE
- CONSTRUTION LIMITS
- STONE DUMPED RIPRAP

N

0 50' 100'

* TEMPORARY DITCH CHECKS ARE INSTALED AT 50' INTERVALES

FILE NAME = erosion control.dgn	USER NAME = lababidism	DESIGNED -	REVISED -
		DRAWN -	REVISED -
	PLOT SCALE = 110.5023 ' / in.	CHECKED -	REVISED -
	PLOT DATE = 10/17/2011	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

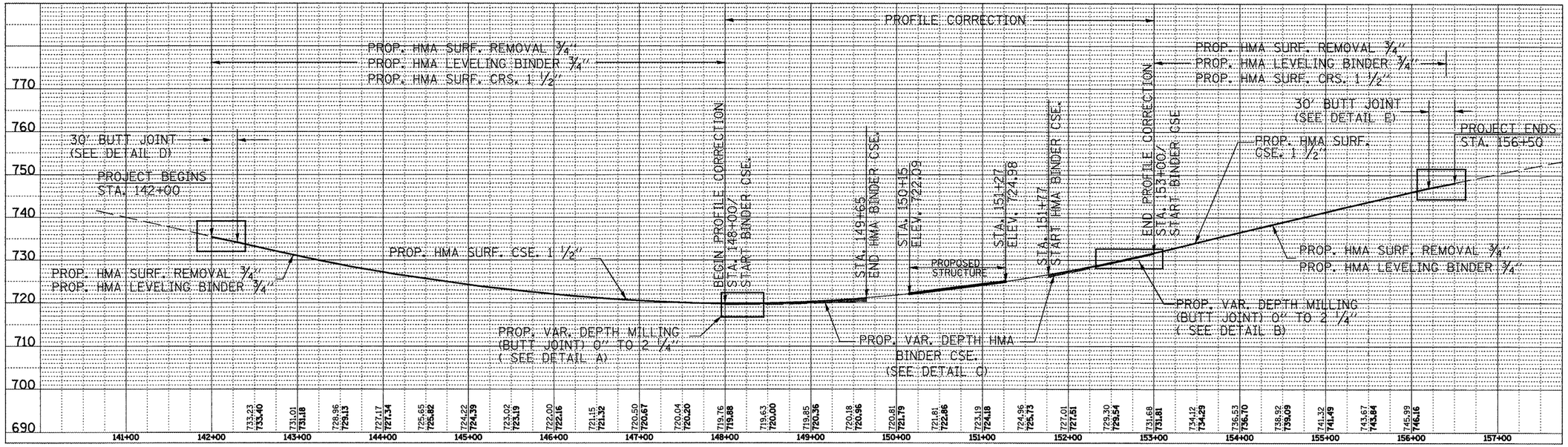
EROSION AND SEDIMENT CONTROL PLAN

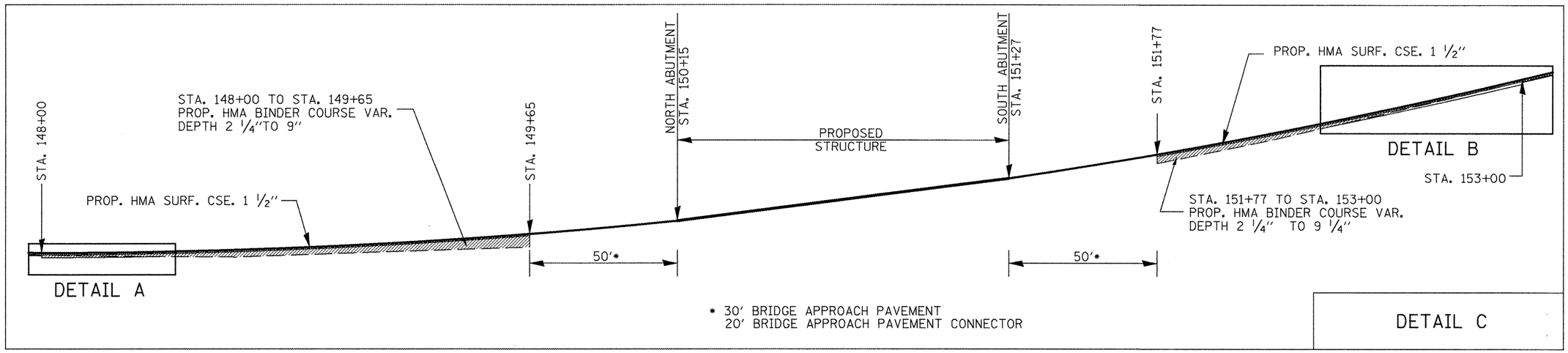
SCALE: | SHEET NO. 1 OF 1 SHEETS | STA. 142+00 TO STA. 156+50

F.A.S RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1190	(125BY)BR	KNOX	94	24

CONTRACT NO. 68087

ILLINOIS | FED. AID PROJECT





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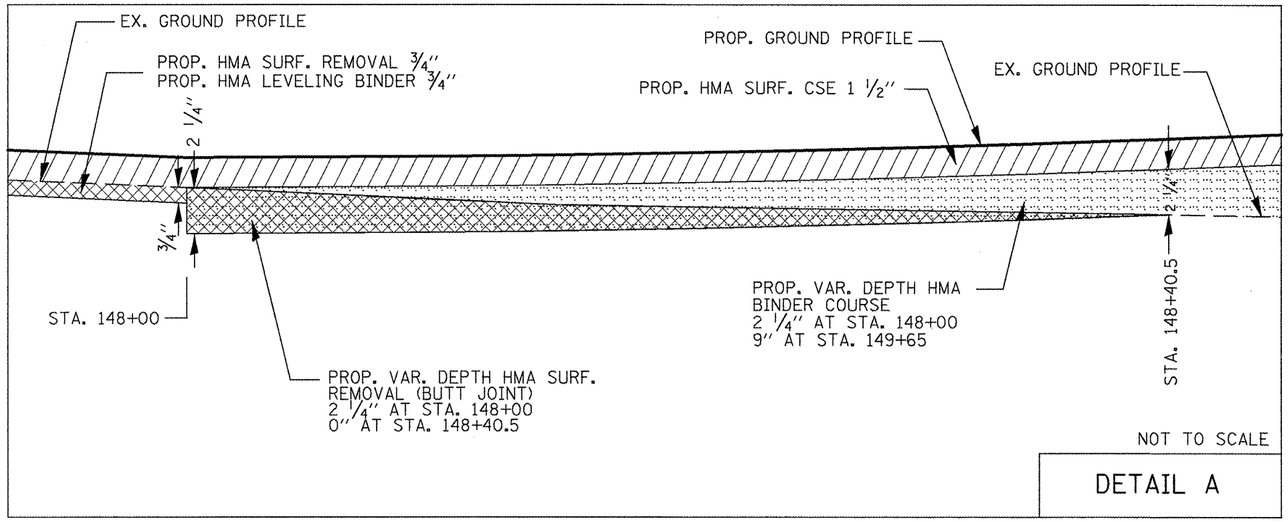
	PLOT DATE = 10/17/2011	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

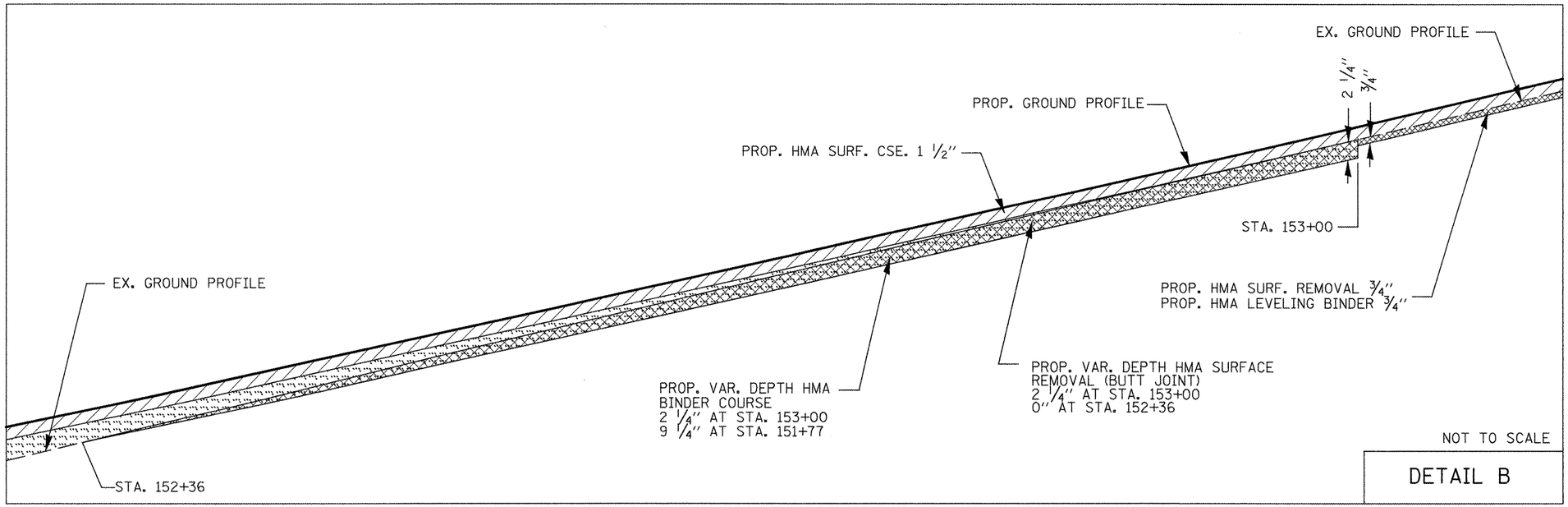
PROFILE DETAILS

SCALE: | SHEET NO. OF SHEETS | STA. | TO STA.

F.A.S RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1190	(125BY)BR	KNOX	94	25
		CONTRACT NO. 68087		
	ILLINOIS FED. AID PROJECT			



DETAIL A



DETAIL B

FILE NAME = Profile details.dgn	USER NAME = lebabidsm	DESIGNED -	REVISED -
		DRAWN -	REVISED -
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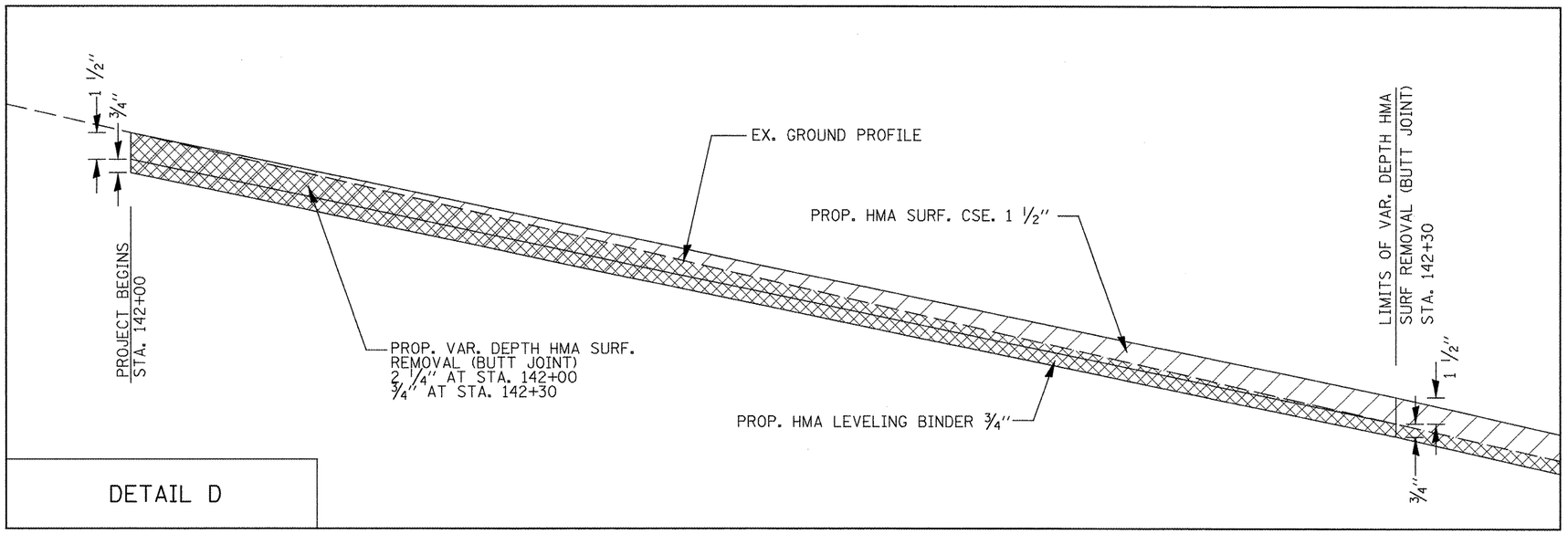
	PLOT DATE = 10/17/2011	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

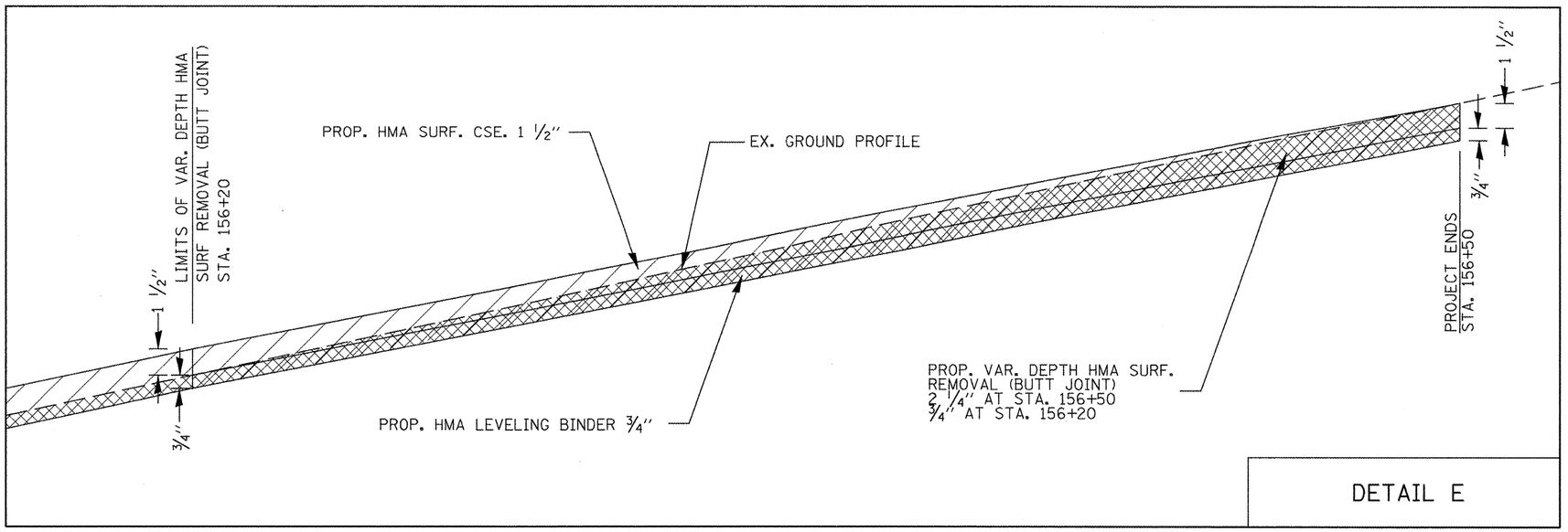
HMA BINDER CSE DETAILS

SCALE: | SHEET NO. OF SHEETS | STA. TO STA.

F.A.S RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1190	(125BY)BR	KNOX	94	26
		CONTRACT NO. 68087		
		ILLINOIS FED. AID PROJECT		

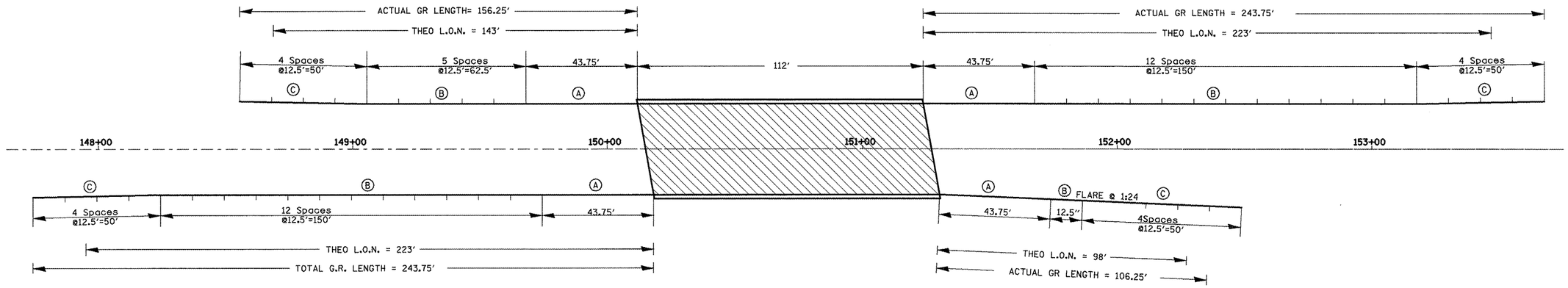


DETAIL D



DETAIL E

FILE NAME = Profile details.dgn	USER NAME = lababidism	DESIGNED -	REVISED -	**STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION**	**BUTT JOINT DETAILS**	F.A.S RTE.	SECTION	COUNTY	TOTAL SHEETS / SHEET NO.
		DRAWN -	REVISED -			1190	(125BY)BR	KNOX	94 / 27
	PLOT SCALE = 120.548 ' / in.	CHECKED -	REVISED -					CONTRACT NO. 68087	
	PLOT DATE = 10/17/2011	DATE -	REVISED -		SCALE: / SHEET NO. OF SHEETS / STA. / TO STA.			ILLINOIS FED. AID PROJECT	



(A) TRAFFIC BARRIER TERMINAL TYPE 6

(B) STEEL PLATE BEAM GUARDRAIL

(C) TRAFFIC BARRIER TERMINAL TYPE 1 SPECIAL

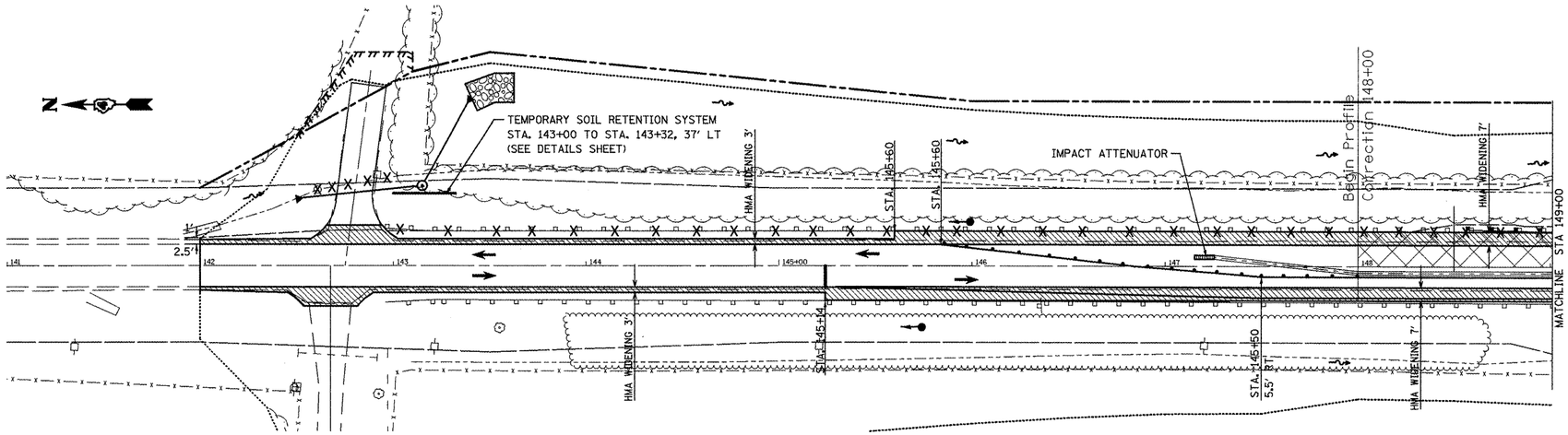
FILE NAME = Profile details.dgn	USER NAME = lababidsm	DESIGNED -	REVISED -
		DRAWN -	REVISED -
	PLOT SCALE = 120.548 ' / in.	CHECKED -	REVISED -
	PLOT DATE = 10/17/2011	DATE -	REVISED -

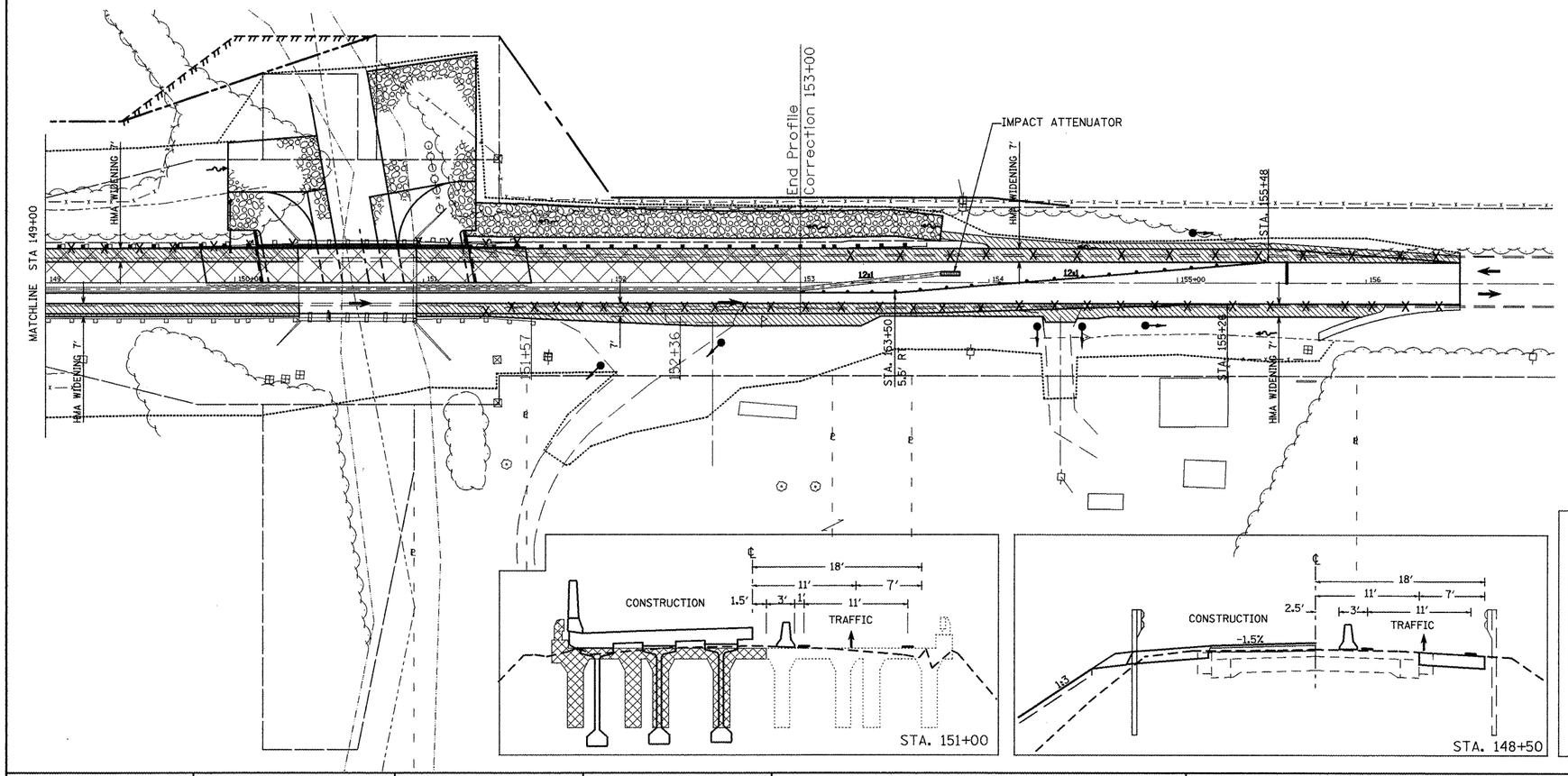
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GUARDRAIL DETAILS

SCALE: | SHEET NO. OF SHEETS | STA. | TO STA.

F.A.S RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1190	(125BY)BR	KNOX	94	28
		CONTRACT NO. 68087		
		ILLINOIS FED. AID PROJECT		





PRE STAGE I:

1. ALL HMA WIDENING AS SHOWN ON THE PLANS
2. CONSTRUCT GUTTER OUTLETSON THE WEST SIDE AS SHOWN ON THE PLANS.
3. INSTALL TEMPORARY TRAFFIC SIGNALS
4. IMPLEMENT TRAFFIC CONTROL STANDARDS 701321 AS SHOWN ON THE PLANS

STAGE I:

- TRAFFIC
  TRAFFIC WILL BE ON THE SOUTH BOUND LANE UTILIZING HIGHWAY STANDARDS 701321
- CONSTRUCTION:
  ALL CONSTRUCTION ACTIVITIES WILL BE ON THE NORTH BOUND LANE AND ON THE EAST SIDE OF THE ROADWAY

SUGGESTED CONSTRUCTION SEQUENCE:

1 CONSTRUCT THE TEMPORARY SOIL RETENTION SYSTEM. REMOVE THE EXISTING GR WITHIN THE LIMITS OF THE PROFILE CORRECTION ON BOTH SIDE OF THE STRUCTURE

2 REMOVE THE NORTH BOUND HALF OF THE EXISTING STRUCTURE AND CONSTRUCT THE NORTH BOUND HALF OF THE PROPOSED STRUCTURE

3 CONSTRUCT THE HMA BINDER COURSE NORTH BOUND TO THE ELEVATIONS AND LIMITS SHOWN ON THE PLANS AND IN THE DETAIL SHEET. THIS SHALL INCLUDE THE BITUMINOUS AND AGGREGATE SHOULDERS

4 CONSTRUCT MANHOLES, PIPE CULVERTS, RIPRAP, AND ALL OTHER STAGE I DRAINAGE ITEMS

5 CONSTRUCT STAGE II EARTHWORK, DRIVEWAY, TOPSOIL AND SEEDING

6 REMOVE THE REMAINING EXISTING GR, PLACE AGGREGATE SHOULDERS/GR AGGREGATE EROSION CONTROL, INSTALL THE PROPOSED GR (NOTE: THE PROPOSED GR SHALL BE INSTALLED 1.5" HIGHER TO ACCOMMODATE FOR THE FINAL LIFT OF THE HMA SURFACE COURSE)

LEGEND

- PROPOSED PROFILE CORRECTION AREA
- PROPOSED HMA WIDENING
- PROPOSED GUTTER/CULVERTS/GUARDRAIL REMOVAL
- TEMPORARY CONCRETE BARRIER
- TEMPORARY TRAFFIC SIGNAL
- BARRIERS TYPE II AND III

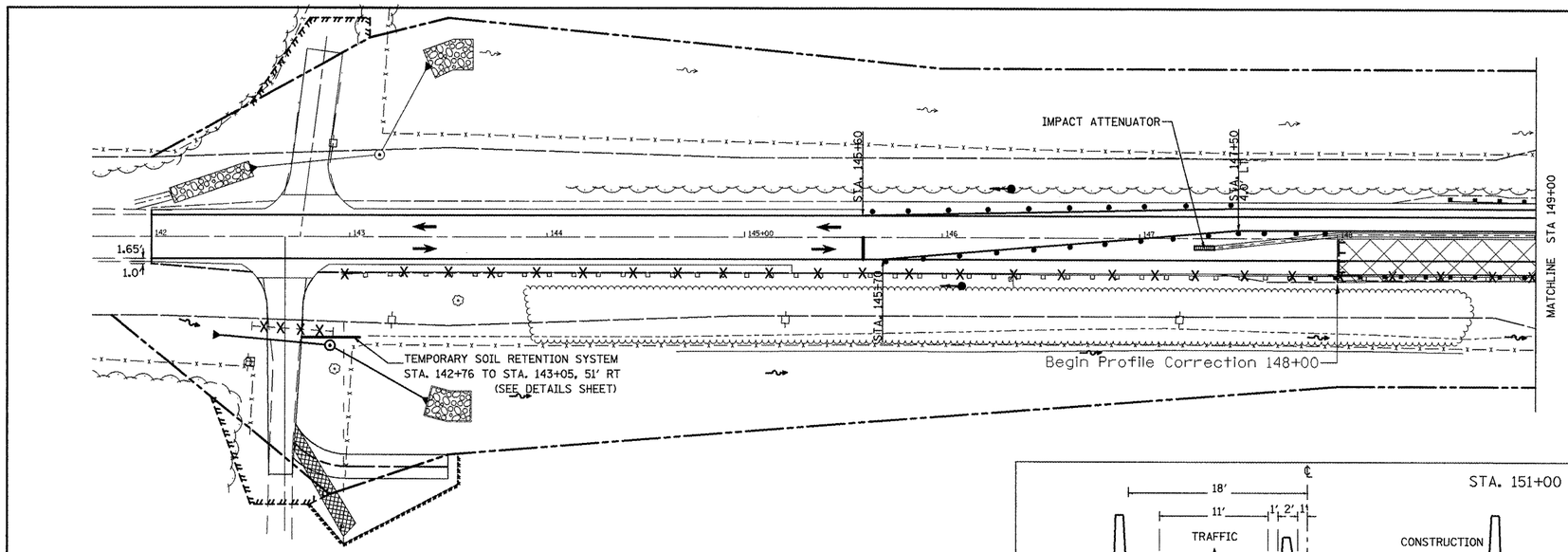
FILE NAME = sheetstage Ldgn	USER NAME = lebabidiam	DESIGNED -	REVISED -
		DRAWN -	REVISED -
	PLOT SCALE = 100.0000 ' / in.	CHECKED -	REVISED -
	PLOT DATE = 10/17/2011	DATE -	REVISED -

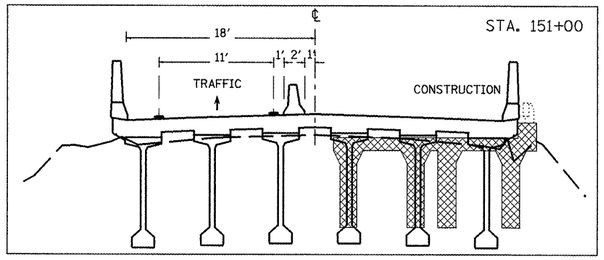
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

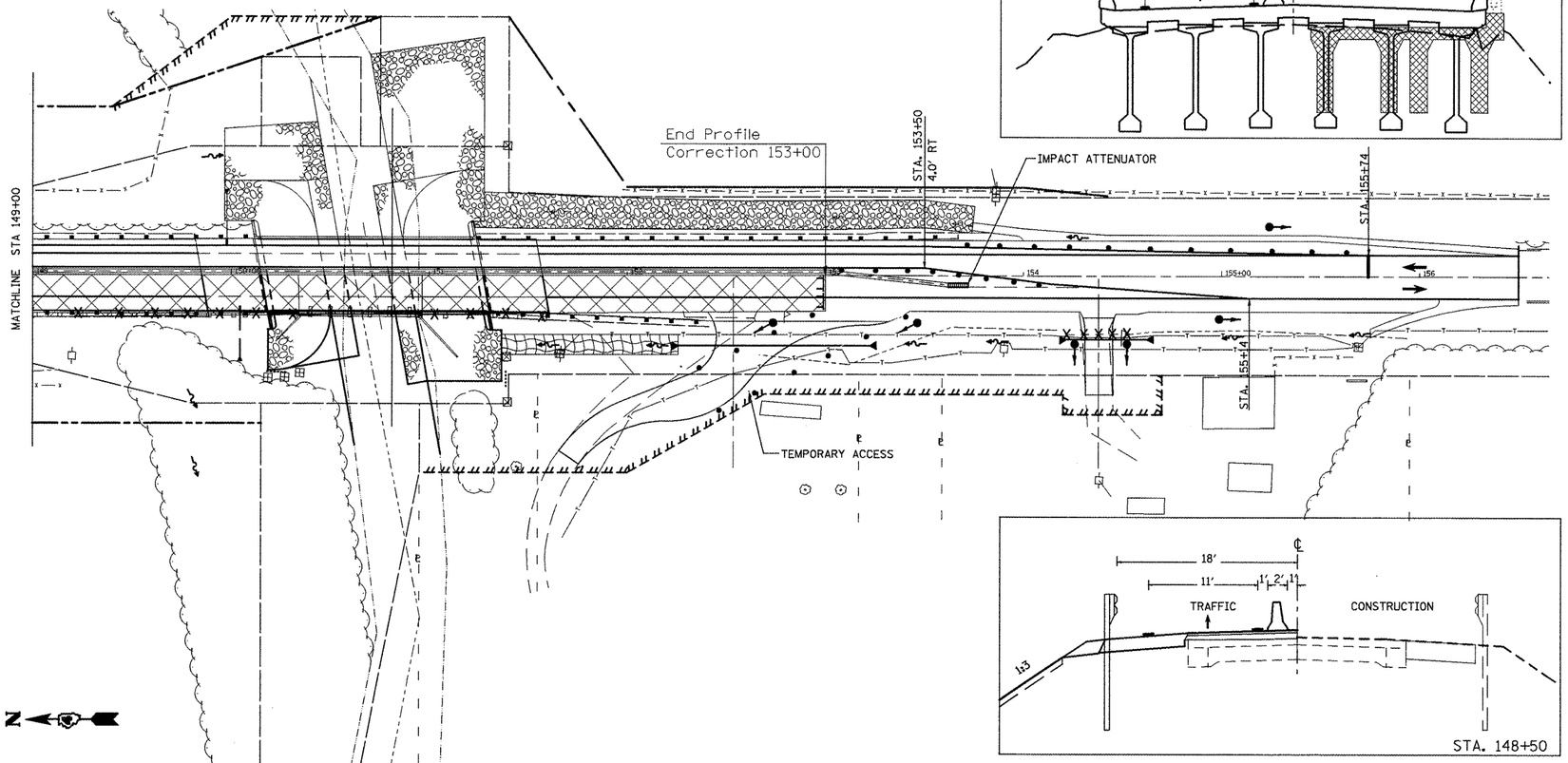
STAGE I TRAFFIC / CONSTRUCTION

SCALE: | SHEET NO. OF SHEETS | STA. TO STA.

F.A.S RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1190	(125BY)BR	KNOX	94	29
		CONTRACT NO. 68087		
		ILLINOIS FED. AID PROJECT		







STAGE II:

- TRAFFIC
  TRAFFIC WILL BE ON THE NORTH BOUND LANE UTILIZING TRAFFIC CONTROL STANDARD 701321

- CONSTRUCTION:
  ALL CONSTRUCTION ACTIVITIES WILL BE ON THE SOUTH BOUND LANE AND ON THE WEST SIDE OF THE ROADWAY.

SUGGESTED CONSTRUCTION SEQUENCE:

1. REMOVE SOUTH BOUND HALF OF THE EXISTING STRUCTURE AND CONSTRUCT SOUTHBOUND HALF OF THE PROPOSED STRUCTURE

2. REMOVE THE EXISTING GR WITHIN THE LIMITS OF THE PROFILE CORRECTION ON BOTH SIDES OF THE STRUCTURE. CONSTRUCT THE HMA BINDER COURSE SOUTH BOUND TO THE ELEVATIONS AND LIMITS SHOWN ON THE PLANS AND ON THE DETAIL SHEET. THIS WORK SHALL INCLUDE THE BITUMINOUS AND AGGREGATE SHOULDERS

3. CONSTRUCT MANHOLES, PIPE CULVERTS, RIP RAP AND ALL OTHER STAGE II DRAINAGE ITEMS

4. CONSTRUCT STAGE II EARTHWORK, DRIVEWAYS, TOPSOIL, AND SEEDING

5. REMOVE THE REMAINING EXISTING GR, PLACE AGGREGATE SHOULDERS/GUARDRAIL AGGREGATE EROSION CONTROL, INSTALL PROPOSED GR (NOTE: THE PROPOSED GR SHALL BE INSTALLED 1.5" HIGHER TO ACCOMMODATE FOR THE FINAL LIFT OF THE HMA SURFACE COURSE)

STAGE III:

- TRAFFIC
  TRAFFIC WILL BE BACK TO NORMAL. ALL CONSTRUCTION ACTIVITIES WILL BE DONE UTILIZING TRAFFIC CONTROL STANDARD 701306

- CONSTRUCTION:

  MILL 3/4" OF EXISTING SURFACE IN THE AREAS OUTSIDE THE LIMITS OF PROFILE CORRECTION. PLACE 3/4" OF PROPOSED HMA LEVELING BINDER AND 1 1/2" OF PROPOSED HMA SURFACE COURSE. (NOTE: SHOULDERS WILL BE DONE SIMULTANEOUSLY WITH THE MAIN LINE).

LEGEND

- PROPOSED PROFILE CORRECTION AREA
- PROPOSED HMA WIDENING
- PROPOSED GUTTER/CULVERTS/GUARDRAIL REMOVAL
- TEMPORARY CONCRETE BARRIER
- TEMPORARY TRAFFIC SIGNAL
- BARRIERS TYPE II AND III

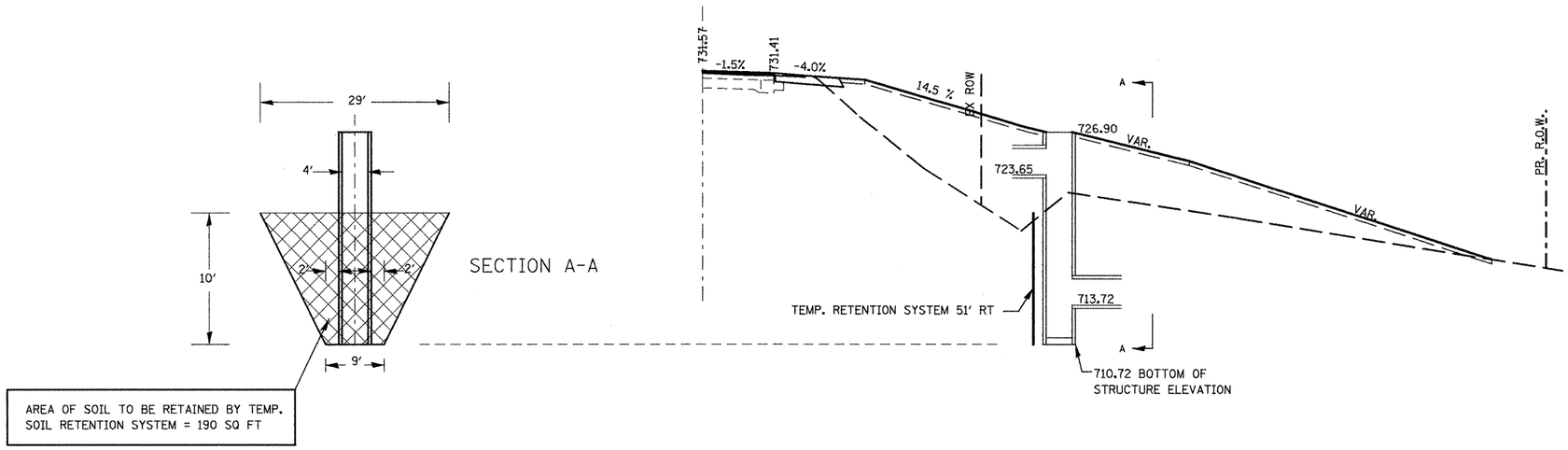
FILE NAME = sheetstageII.dgn	USER NAME = lababidism	DESIGNED -	REVISED -
		DRAWN -	REVISED -
	PLOT SCALE = 100.0000 ' / in.	CHECKED -	REVISED -
	PLOT DATE = 10/17/2011	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

STAGE II & III TRAFFIC / CONSTRUCTION

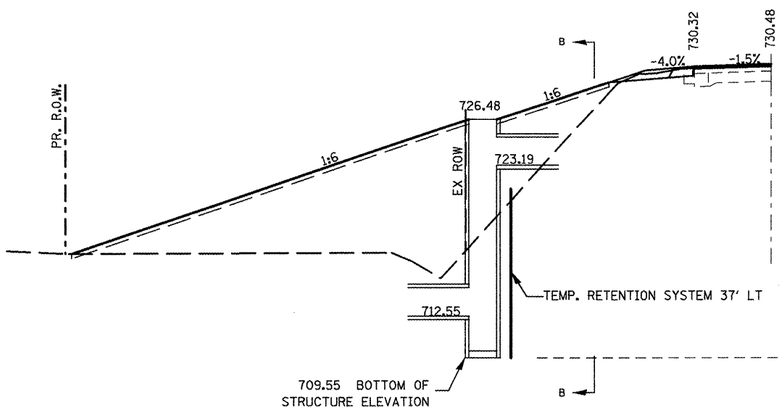
SCALE: | SHEET NO. OF SHEETS | STA. TO STA.

F.A.S RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1190	(125BY)BR	KNOX	94	30
		CONTRACT NO. 68087		
		ILLINOIS FED. AID PROJECT		

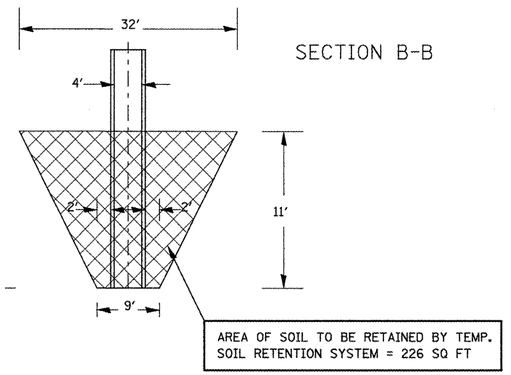


STA. 142+90

NOTE
TEMPORARY SOIL RETENTION SYSTEM WILL BE USED TO RETAIN SOIL BEHIND THE PROPOSED MANHOLE DROP STRUCTURE IN ORDER TO CONSTRUCT THE BASE PAD, INLET AND OUTLET PIPES, MANHOLE AND BACKFILL AROUND THE STRUCTURE



SECTION B-B



STA. 143+15

FILE NAME = Temp Retention system detail.dgn	USER NAME = lababbidsm	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	TEMPORARY SOIL RETENTION SYSTEM	F.A.S RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		DRAWN -	REVISED -			1190	(125BY)BR	KNOX	94	31
	PLOT SCALE = 100.000 ' / in.	CHECKED -	REVISED -					CONTRACT NO. 68087		
	PLOT DATE = 10/17/2011	DATE -	REVISED -		SCALE: SHEET NO. OF SHEETS STA. TO STA.			ILLINOIS FED. AID PROJECT		

SCALE 1"=20'

JOHN G. BUDD

PROPOSED R.O.W.

CONSTRUCTION LIMITS

143+10.00
110.00' LT

143+10.00
100.00' LT

142+80.00
110.00' LT

143+50.00
110.00' LT

146+00.00
85.00' LT

142+50.00
67.31' LT

142+00.03
40.09' LT

143+50.00
45.00' LT

145+00.00
40.00' LT.

BEGIN PROJECT
STA. 142+00.00

APPROX. EX. ROW

APPROX. EX. ROW

℄ RTE. 150

80'

142 | 143 | 144 | 145+00 | 146 | 147

MATCHLINE STA. 147 + 50

APPROX. EX. ROW

141+80.00
39.94' RT

142+00.00
40.00' RT.

143+50.00
45.00' RT.

145+00.00
40.00' RT.

CONSTRUCTION LIMITS

142+30.00
80.87' RT

143+50.00
110.00' RT

147+35.71
80.00' RT

GALESBURG MOTORCYCLE
CLUB, INC.

143+54.99
109.61 RT

PROPOSED R.O.W.

JOHN G. BUDD

142+97.54
127.49' RT

143+54.99
125.00 RT

142+50.00
135.00' RT

142+90.00
130.00' RT

142+80.00
135.00' RT

142+97.08
155.00 RT

FILE NAME = REV row-sht01-10_21_2011 Sobhi.dgn	USER NAME = lababidism	DESIGNED -	REVISED -
		DRAWN -	REVISED -
	PLOT SCALE = 42.5463 ' / in.	CHECKED -	REVISED -
	PLOT DATE = 10/21/2011	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

R.O.W. SHEETS

SCALE: | SHEET NO. OF SHEETS | STA. TO STA.

F.A.S RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1190	(125BY)BR	KNOX	94	32
		CONTRACT NO. 68087		
		ILLINOIS FED. AID PROJECT		

0 25' 50'
SCALE 1"=20'

PROPOSED R.O.W.

JOHN G. BUDD

CONSTRUCTION LIMITS

149+40.00
85.00' LT

150+00.00
130.00' LT

150+74.46
130.57' LT.

151+38.46
130.60' LT.

150+14.47
110.53' LT.

150+64.47
110.56' LT.

149+80.00
65.00' LT.

150+15.00
65.00' LT.

150+65.00
65.00' LT.

151+30.00
65.00' LT.

148+80.00
40.00' LT.

APPROX. EX. ROW

MATCHLINE STA. 147+50

80'

148

149

℄ RTE. 150

150+00

151

152

153

90'

MATCHLINE STA. 153+50

148+80.00
40.00' RT.

APPROX. EX. ROW

CONSTRUCTION LIMITS

149+80.00
65.00' RT.

150+15.00
65.00' RT.

150+14.57
80.00' RT

150+94.57
64.42' RT.

151+40.00
65.00' RT.

151+40.00
50.00' RT.

APPROX. EX. ROW

152+70.00
60.00 RT

152+00.00
100.00 RT

150+94.59
100.00 RT

PROPOSED R.O.W.

JOHN G. BUDD

JAMES R. & REBECCA S.
WILSON

LOT 1

LOT 2

LOT 3

ACRES

MILL

OLD

150+15.00
250.00' RT.

150+65.00
250.00' RT.

	CHANNEL CHANGE AGREEMENT KNOX COUNTY RECORDER'S OFFICE BOOK 380 PAGE 532, 11-9-1950
	BANK MAINTENANCE AGREEMENT KNOX COUNTY RECORDER'S OFFICE BOOK 380 PAGE 532, 11-9-1950

FILE NAME = REV row-sht01-10_21_2011 Sobhi.dgn	USER NAME = lababidism	DESIGNED -	REVISED -
		DRAWN -	REVISED -
	PLOT SCALE = 42.5463 ' / in.	CHECKED -	REVISED -
	PLOT DATE = 10/21/2011	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

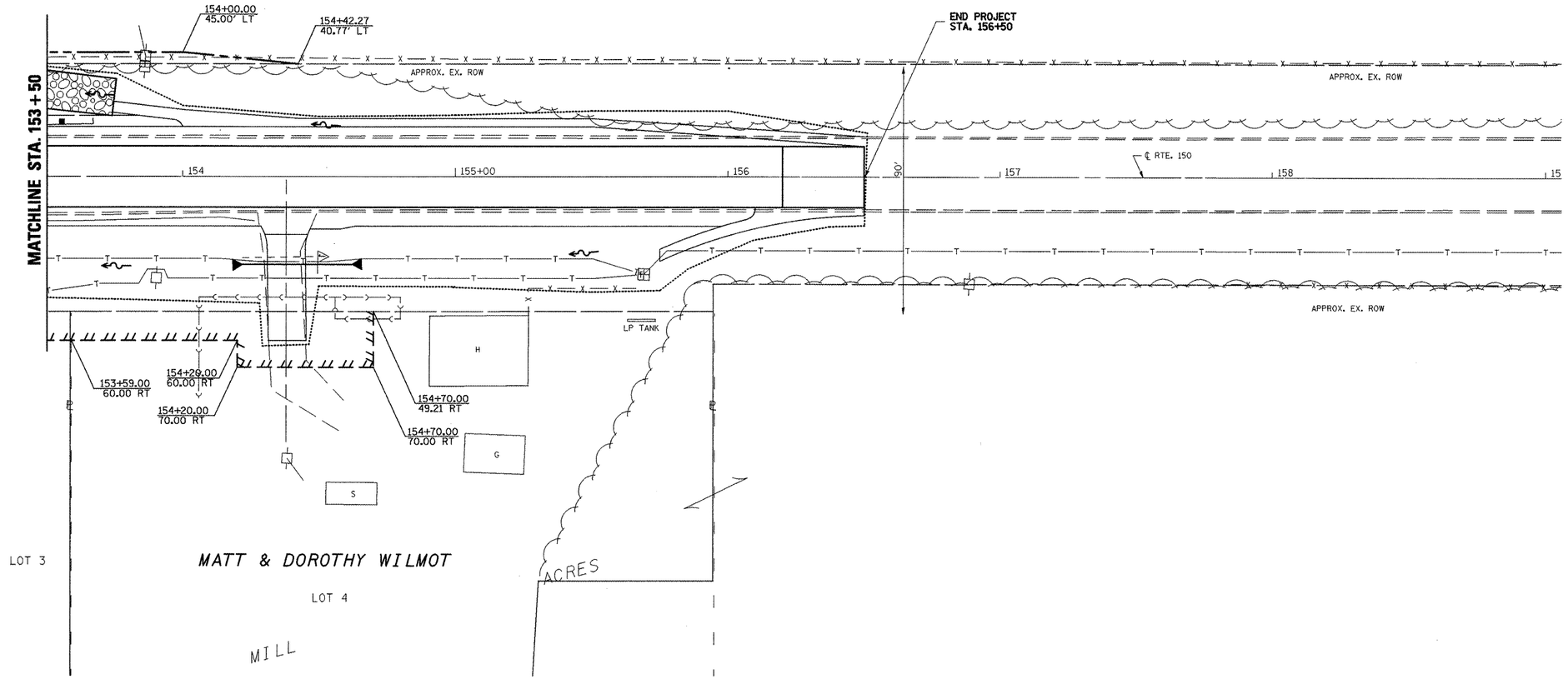
R.O.W. SHEETS

SCALE: | SHEET NO. OF SHEETS | STA. | TO STA.

F.A.S RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1190	(125BY)BR	KNOX	94	33
		CONTRACT NO. 68087		
		ILLINOIS FED. AID PROJECT		

SCALE 1"=20'

JOHN G. BUDD



FILE NAME = REV rowsht01-18_21_2011 Sobhi.dgn	USER NAME = lababidsm	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	R.O.W. SHEETS				F.A.S RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		DRAWN -	REVISED -						1190	(125BY)BR	KNOX	94	34
	PLOT SCALE = 42.5463 ' / in.	CHECKED -	REVISED -								CONTRACT NO. 68087		
	PLOT DATE = 10/21/2011	DATE -	REVISED -		SCALE:	SHEET NO. OF SHEETS	STA.	TO STA.			ILLINOIS FED. AID PROJECT		

BOND ISSUE ROUTE NO.	SEC.	COUNTY	TOTAL SHEETS	SHEET NO.
80	123B-R 125B-Y	KNOX	25	1
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT	FI-155(13)	

INDEX OF SHEETS

STATE OF ILLINOIS
DEPARTMENT OF PUBLIC WORKS AND BUILDINGS
DIVISION OF HIGHWAYS
PLANS FOR PROPOSED STATE BOND ISSUE HIGHWAY

SCALES

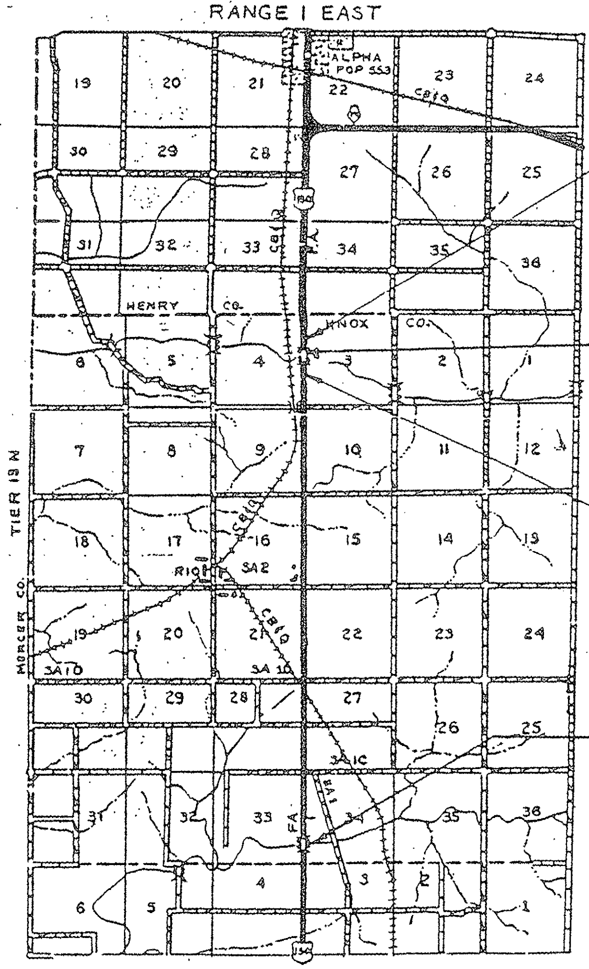
PLAN	1 INCH	100 FT.
PROFILE HOR.	1 INCH	100 FT.
PROFILE VERT.	1 INCH	10 FT.
CROSS-SECTIONS	1 INCH	5 FT.

S.B.I. ROUTE 80 SECTIONS 123B-R & 125B-Y

PROJECT FI-155(13) KNOX CO.

SUMMARY OF QUANTITIES

23,327	cu. yds.	Earth Excavation
151.6	sq. yds.	P.C.C. Pavement (16½"-10½"-16½")
1913.7	sq. yds.	P.C.C. Pavement (9" uniform)
190	lin. ft.	Corrugated Metal Pipe, 12 inch
60	lin. ft.	Perforated Corrugated Metal Pipe, 6 inch.
5.6	cu. yds.	Handrail Concrete
589.9	cu. yds.	Class X Concrete
75,997	lbs.	Reinforcement Bars
106,960	lbs.	Structural Steel
1,020	lin. ft.	Furn. Untreated Piles Up to 30' long
396	lin. ft.	Furn. Treated Piles 20.1 to 38' long
754	lin. ft.	Furn. Precast Concrete Piles
754	lin. ft.	Driving Precast Conc. Piles 29' long
1,020	lin. ft.	Driving Piles Timber 10' long
396	lin. ft.	Driving Piles Timber 22' long
2	each	Name Plates
2	each	Test Piles (Concrete)
245	lin. ft.	Metal Handrail
1,170	sq. yds.	Slopewall
1,963	cu. yds.	Channel Excavation
3,017	cu. yds.	Compaction by Watersoaking
89	Sq. yds.	Attaching Wire Fence
298	each	Expansion Bolts "A"
14	each	Expansion Bolts "B"
14	each	Expansion Bolts "C"
21	cu. yds.	Concrete Removal
Lump	Sum	Detour Bridge
Lump	Sum	Removal of Detour Bridge
1	each	Removal of Existing Substructure
1,385.9	sq. yds.	Pavement Fabric
523	cu. yds.	Granular Borrow
2	cu. yds.	Porous Granular Backfill
3,411	sq. yds.	Earth Shoulders
676	lin. ft.	Concrete Gutter, Type B
873	sq. yds.	Pavement Removal
690	cu. yds.	Gravel or Crushed Stone Surface Course, Type C
4.5	tons	Calcium Chloride Applied
3.77	acres	Mulch Covering
0.17	tons	Fertilizer
4.15	acres	Seeding (temporary)
16.6	tons	Agricultural Ground Limestone
11	each	Furn. & Erecting R.O.W. Markers
775	lbs.	Cast Iron Grates
108	lin. ft.	Gutter Edge Removal
7.9	Acres	Tree Removal (Acres)



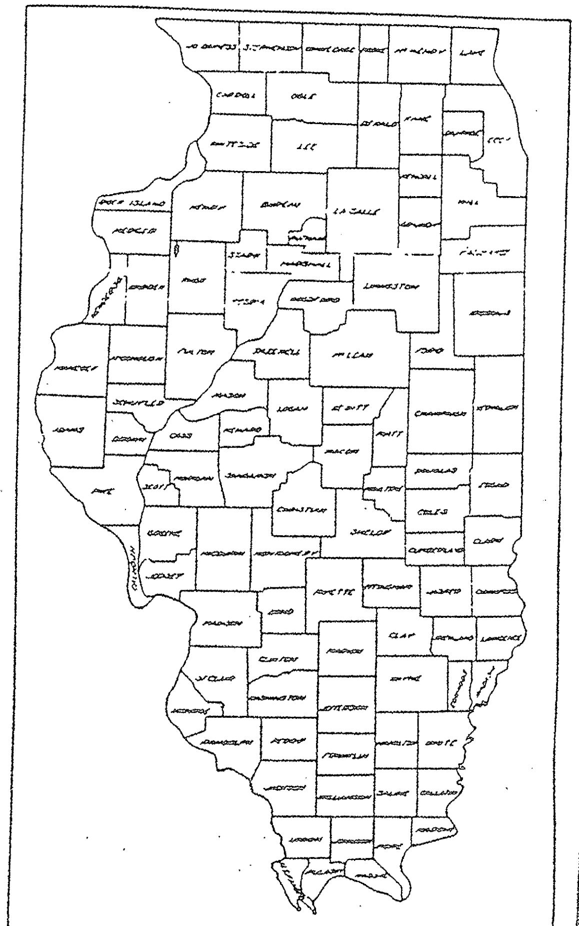
SECTION 123B-R BEGINS Sta. 127+00

SEC. 123B-R INCLUDES: STEEL I-BEAM BRIDGE; SPANS 2 @ 40'-06", 1 @ 50'-09", @ Sta. 132+77; AND PAVED APPROACHES

SECTION 123B-R ENDS Sta. 147+00

SEC. 125B-Y INCLUDES: WIDENING R.C. GIRDER BRIDGE, ONE SPAN @ 60', @ Sta. 150+65

LAYOUT SECTIONS 123B-R & 125B-Y
APPROXIMATE SCALE: 1" = 1 mile
Net length = 2000 ft. (0.37879 mile)



LOCATION OF SECTION INDICATED THUS:—

STATE OF ILLINOIS
DEPARTMENT OF PUBLIC WORKS AND BUILDINGS
DIVISION OF HIGHWAYS

SUBMITTED July 13, 19
DISTRICT ENGINEER
EXAMINED 9-29 19
ENGINEER
PASSED 19
ENGINEER OF DESIGN
APPROVED 9-29
CHIEF HIGHWAY ENGINEER
APPROVED 9-29 19
SECTION

4-26

DEPARTMENT OF COMMERCE
BUREAU OF PUBLIC ROADS

RECOMMENDED FOR APPROVAL:
[redacted]
DISTRICT ENGINEER DATE

APPROVED:
[redacted]
DIVISION ENGINEER DATE

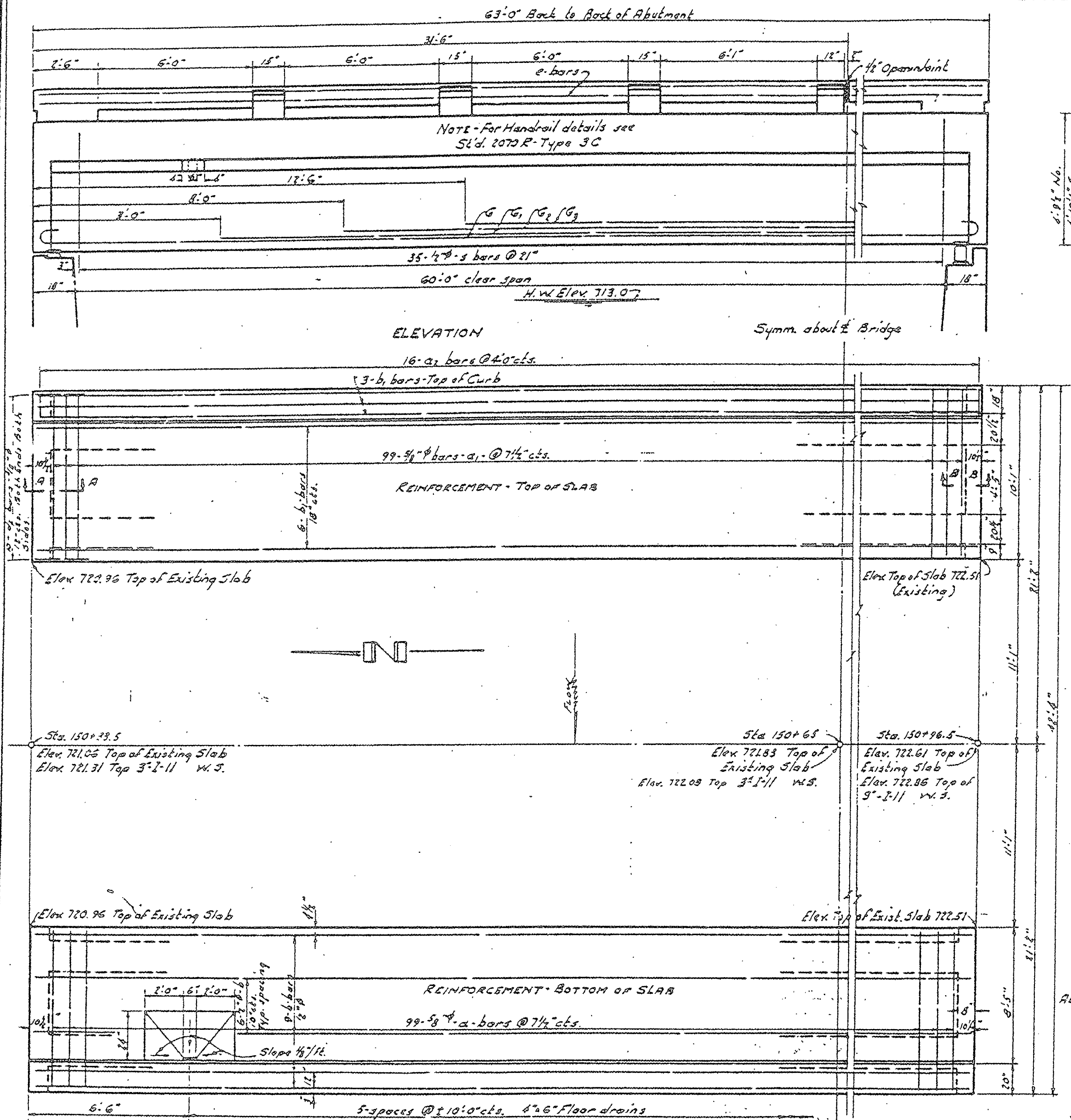
150+65

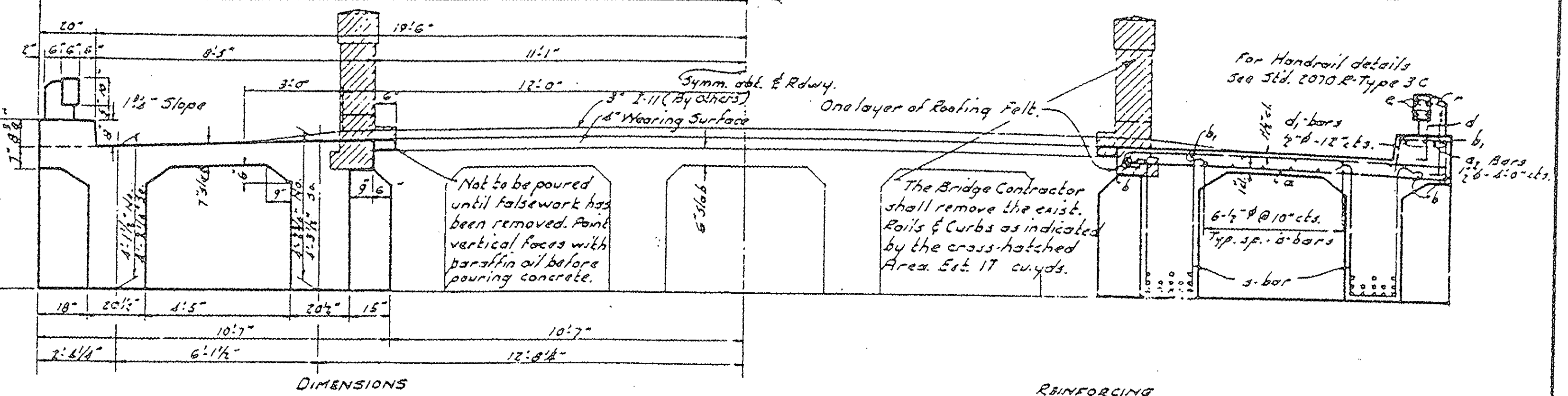
B.M. on N.E. Wing Existing Bridge Elev. 720.96

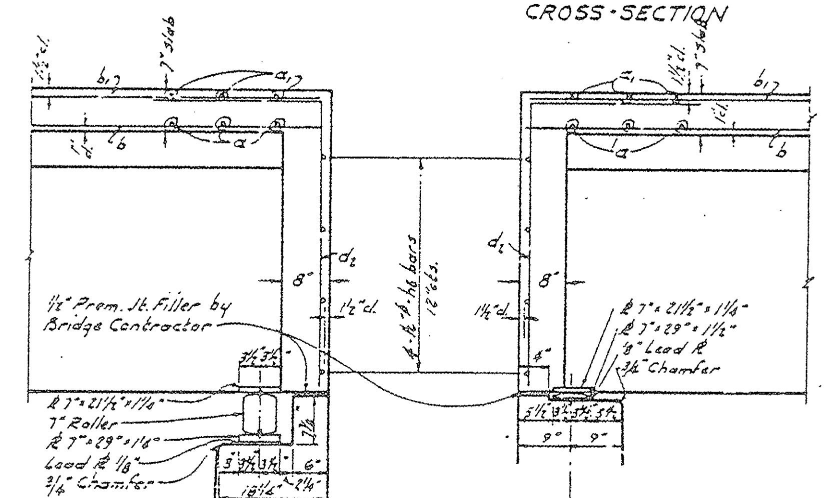
STATE OF ILLINOIS
DEPARTMENT OF PUBLIC WORKS & BUILDINGS
DIVISION OF HIGHWAYS

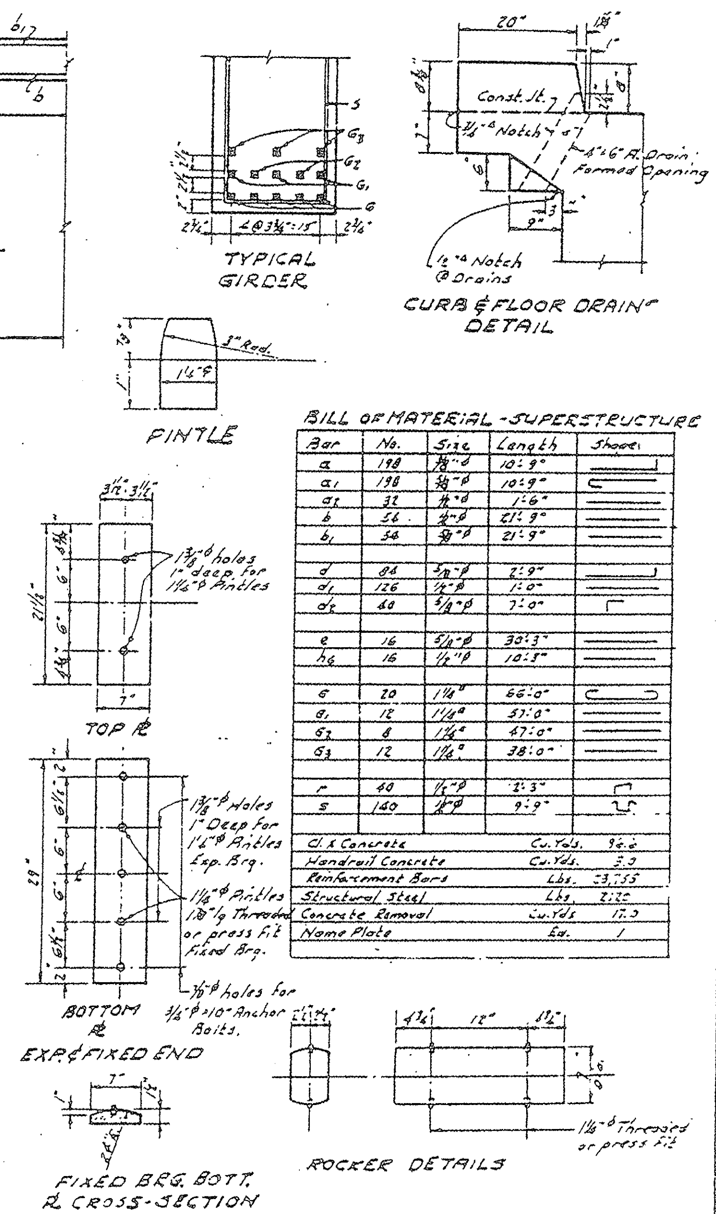
FED. AID ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	125B-Y	KNOX	25	21
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT FI-155(13)		

SHEET NO 1
4 SHEETS









GENERAL NOTES

Class X Concrete shall be used throughout except as noted.

Handrail Concrete shall be used in Rails & Posts.

Concrete Floor Slab shall be finished in accordance with Art. 61.3(e) of the Standard Specifications.

Handrail and Curbs shall not be poured until after falsework has been removed.

All structural steel shall receive one shop coat of red lead paint & two field coats of aluminum paint. Shop inspection by Ill. Div. of Highways before painting required.

All paint shall be furnished & applied by the Contractor.

Contract unit price each for Expansion Bolts shall include furnishing, drilling holes, and setting Expansion Bolts.

Rollers, Bearing ℘s, Lead ℘s, Pintles, and Anchor Bolts shall be finished, painted, and set according to Art. 54.3(d) of the Standard Specifications, and are included for payment as structural steel.

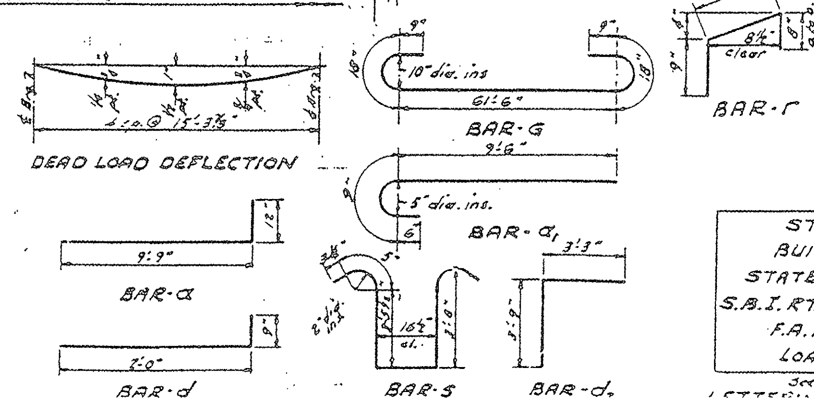
The Bridge Contractor shall excavate the channel as shown in sketch and dispose of excavated material as directed by the Engineer.

Attaching Wire Fence contract unit price per sq. yd. shall include installing and attaching wire fence in accordance with Special Provisions.

BILL OF MATERIAL - SUPERSTRUCTURE

Bar	No.	Size	Length	Shape
a	198	5/8"φ	10'-9"	
a1	198	5/8"φ	10'-9"	
a2	32	1/2"φ	1'-6"	
b	56	1/2"φ	21'-9"	
b1	54	5/8"φ	21'-9"	
d	84	5/8"φ	2'-9"	
d1	126	1/2"φ	1'-0"	
d2	40	5/8"φ	7'-0"	
e	16	5/8"φ	30'-3"	
h6	16	1/2"φ	10'-5"	
G	20	1 1/8"	66'-0"	
G1	12	1 1/8"	57'-0"	
G2	8	1 1/8"	47'-0"	
G3	12	1 1/8"	38'-0"	
r	40	1/2"φ	2'-3"	
s	140	1/2"φ	9'-9"	

Cl. X Concrete	Cu. Yds.	96.6
Handrail Concrete	Cu. Yds.	3.0
Reinforcement Bars	Lbs.	23,755
Structural Steel	Lbs.	2,120
Concrete Removal	Cu. Yds.	17.0
Name Plate	Ea.	1



WATERWAY DATA

Drainage Area	15,520 Acres
Required Opening	417 □'
Present Opening	382 □'
Proposed Opening	440 □'
c (Talbot's formula)	0.3

DESIGN STRESSES

Super Conc.	1,200
Substr. Conc.	800
Reinf. steel	20,000
Struct. steel	18,000

Loading H-20-44

Item	Super	No. Abut.	So. Abut.	Total
Untreated Piles 10' lg.		480	540	1020
Treated Piles 22' lg.			396	396
Channel Excavation		644		644
Class X Concrete	96.6	124.1	140.8	361.5
Handrail Conc. Cu. Yds.	3.0			3.0
Reinforcement Bars Lbs.	23,755	6,480	7,514	37,749
Structural Steel Lbs.	2,120			2,120
Concrete Removal Cu. Yds.	17.0	2.00	2.00	21
Name Plate Ea.	1			1
Attach. Wire Fence Sq. Yds.			59	59
Expansion Bolts "A" Ea.		150	148	298
Expansion Bolts "B" Ea.			14	14
Expansion Bolts "C" Ea.		14		14

STA. 150+65
BUILT 19 BY
STATE OF ILLINOIS
S.B.I. RT. 80 SEC. 125-B-Y
F.A. PROJ. FI-155(13)
LOADING H-20

See Std. 1381

DESIGNED	[signature]
CHECKED	[signature]
DRAWN	J.F.S.
CHECKED	[signature]

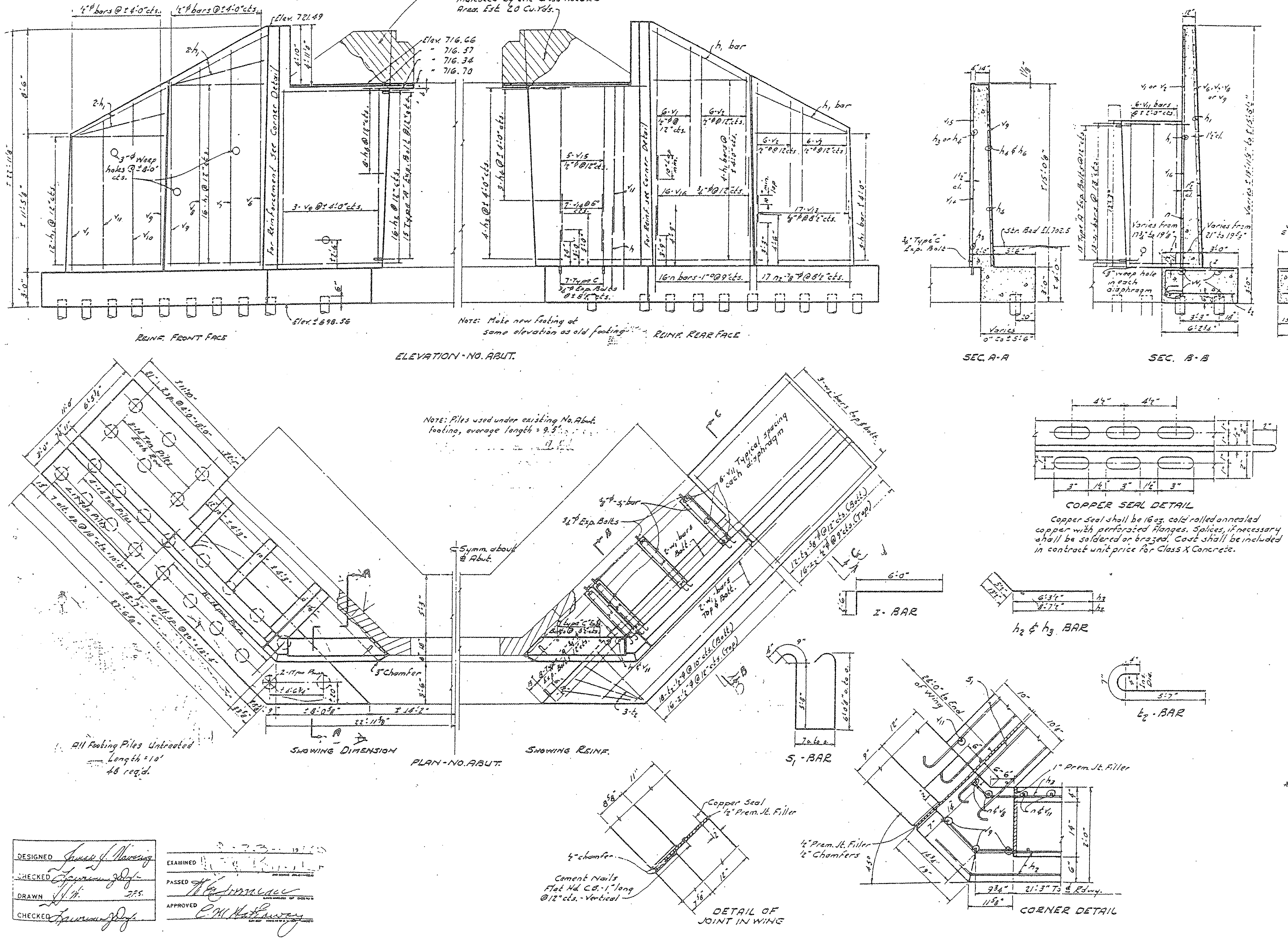
EXAMINED [signature]
PASSED [signature]
APPROVED C.M. Hathaway

PROJECT FI-155(13)
S.B.I. RTE. 80 F.A. RTE. 53
SECTION 125 B-Y
KNOX CO.
STA. 150+65

ROAD ISSUE ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	125B-Y	KNOX	25	22
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT FI-155 (13)		

SHEET NO. 2
2 SHEETS

STATE OF ILLINOIS
DEPARTMENT OF PUBLIC WORKS & BUILDINGS
DIVISION OF HIGHWAYS



BILL OF MATERIALS - NO. ABUT.

Bar	No.	Size	Length	Shape
h_1	82	½"φ	11'-6"	
h_2	32	½"φ	9'-9"	
h_3	8	½"φ	6'-9"	
h_6	22	½"φ	1'-6"	
n	40	1"φ	6'-9"	
n_2	36	⅞"φ	6'-6"	
s_1	104	⅝"φ	14'-3"	
t_2	42	½"φ	6'-6"	
t_3	26	⅝"φ	10'-9"	
v_1	14	½"φ	10'-6"	
v_2	26	"	8'-6"	
v_3	12	"	7'-0"	
v_6	2	"	19'-9"	
v_7	2	"	18'-3"	
v_8	6	"	16'-9"	
v_9	16	"	14'-9"	
v_{10}	2	"	13'-6"	
v_{11}	54	"	11'-9"	
v_{13}	36	⅝"φ	3'-3"	
v_{14}	18	½"φ	4'-0"	
v_{15}	10	"	10'-0"	
v_{16}	32	¾"φ	6'-3"	
w_1	12	½"φ	19'-6"	
w_2	12	½"φ	11'-6"	
z	32	½"φ	8'-6"	
z_2	32	½"φ	10'-9"	

Item	Unit	Quantity
Class X Concrete	Cu. Yds.	174.1
Reinforcement Bars	Lbs.	6480
Concrete Removal	Cu. Yds.	20
Untreated Piles Est. Lgth. 10'	Lin. Ft.	480
Expansion Bolt - Type A	Ea.	150
Expansion Bolt - Type C	Ea.	14
* Channel Excavation	Cu. Yds.	[illegible]

* See Sketch on Sh. No. 3

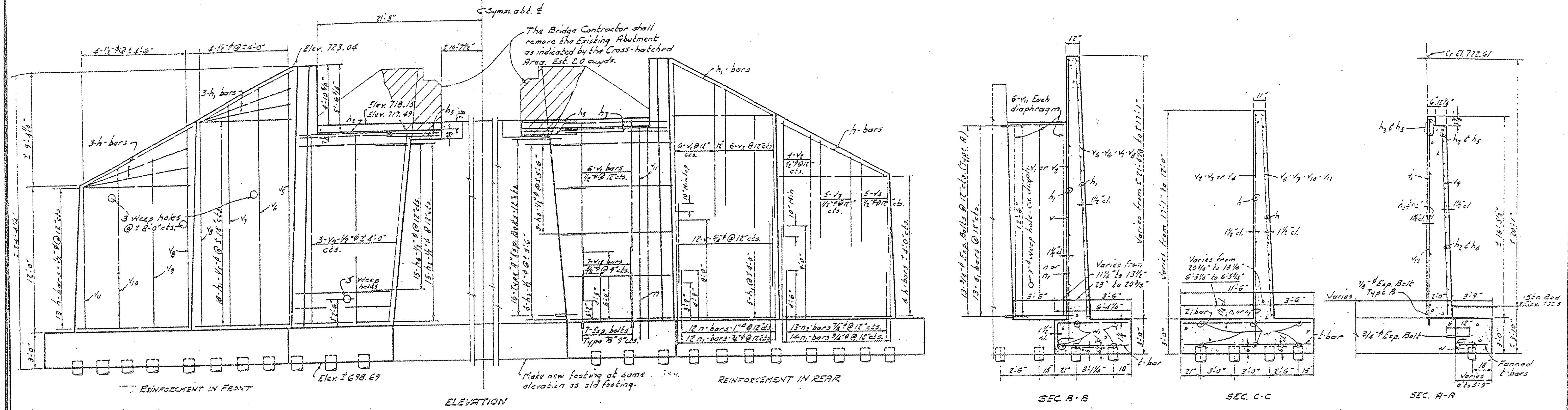
DESIGNED
CHECKED
DRAWN
CHECKED
EXAMINED
PASSED
APPROVED

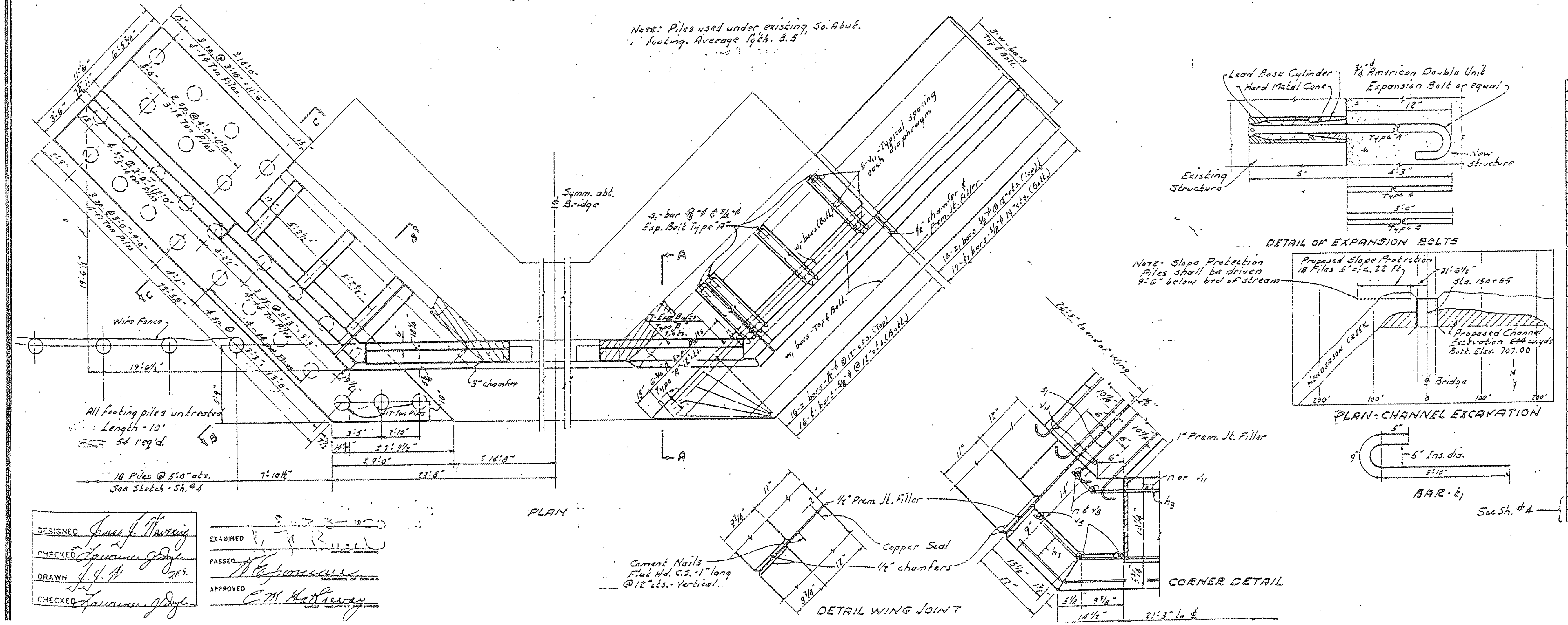
PROJECT FI-155(13)
S.B.I. RT. 80 F.A. RTE. 53
SECTION 125 BY
KNOX CO.
STA. 150 + 65

ROAD ISSUE ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	1258-Y	KNOX	25	23
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT FI-155(13)		

SHEET NO 3
6 SHEETS

STATE OF ILLINOIS
DEPARTMENT OF PUBLIC WORKS & BUILDINGS
DIVISION OF HIGHWAYS





BILL OF MATERIAL - SO. ABUT.

Bar	No.	Size	Length	Shape
h	42	1/2"φ	13'-9"	
h_1	54	1/2"φ	11'-6"	
h_2	36	"	9'-9"	
h_3	16	"	6'-9"	
h_4	32	"	1'-6"	
h_5	10	"	6'-0"	
n	32	1"φ	6'-9"	
n_1	52	3/4"φ	11'-0"	
s_1	104	3/8"φ	14'-3"	
t	40	5/8"φ	7'-0"	
t_1	38	5/8"φ	11'-3"	
v	24	5/8"φ	7'-0"	
v_1	26	1/2"φ	10'-6"	
v_2	20	"	8'-6"	
v_3	10	"	7'-0"	
v_4	10	"	5'-6"	
v_5	8	"	21'-0"	
v_6	2	"	19'-9"	
v_7	2	"	18'-3"	
v_8	8	"	16'-9"	
v_9	8	"	14'-9"	
v_{10}	2	"	13'-6"	
v_{11}	54	"	11'-9"	
v_{12}	14	3/8"φ	4'-0"	
w	12	1/2"φ	13'-9"	
w_1	12	1/2"φ	19'-6"	
z	32	1/2"φ	8'-6"	
z_1	28	5/8"φ	11'-3"	
n_2	26	7/8"φ	6'-6"	

Class X Concrete	Cu.Yds.	143.8
Reinforcing Bars	Lbs.	[illegible]
Concrete Removal	Cu.Yds.	2.0
Untreated Piles (Est. lg. 10')	Lin.Ft.	540
Expansion Bolt - Type "A"	Ea.	143
Expansion Bolt - Type "B"	Ea.	14
Treated Piles - (Est. lg. 22')	Lin.Ft.	396
Attaching Wire Fence	Sq.Yds.	59

See Sh. #4 (Treated Piles; Attaching Wire Fence)

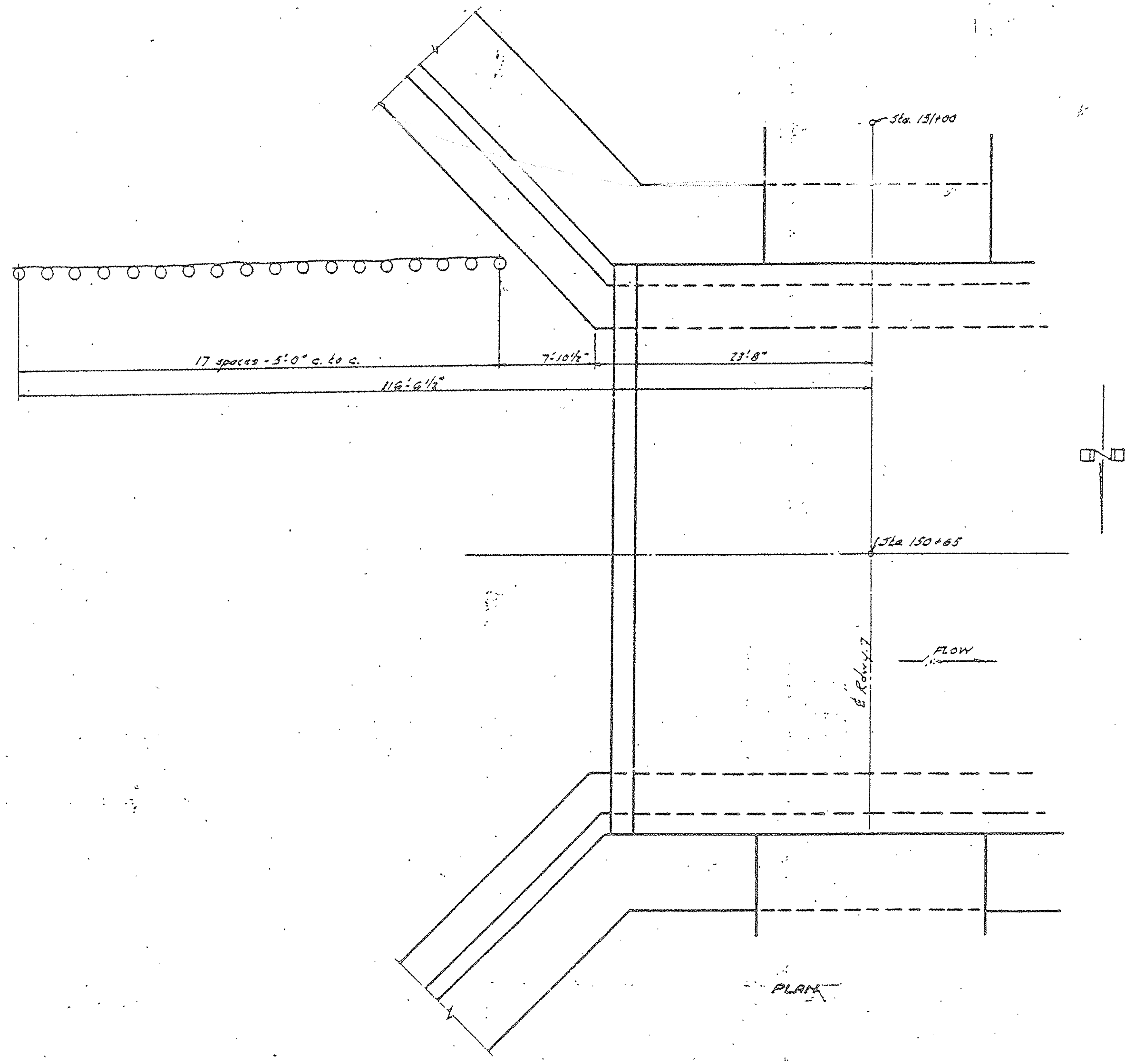
PROJECT FI-155(13)
S.B.I. RT. 80 F.A. RTE. 53
SECTION 125-B-Y
KNOX CO.
STA. 150+65

DESIGNED [signature]
CHECKED [signature]
DRAWN [signature]
CHECKED [signature]
EXAMINED [signature]
PASSED [signature]
APPROVED [signature]

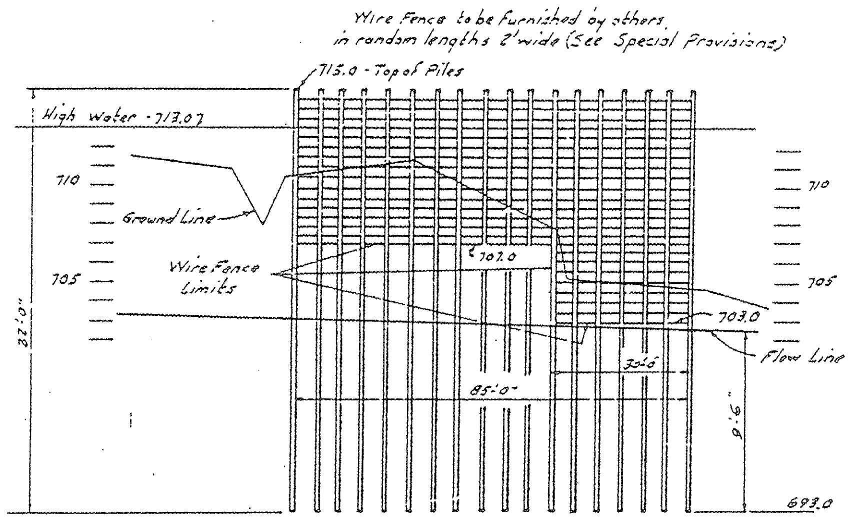
STATE OF ILLINOIS
DEPARTMENT OF PUBLIC WORKS & BUILDINGS
DIVISION OF HIGHWAYS

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	125B-Y	KNOX	25	24
		ILLINOIS	FED. AID PROJECT FI-155(13)	

SHEET NO. 4
4 SHEETS



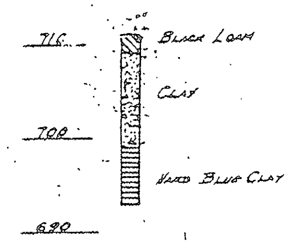
PLAN



PROPOSED SLOPE PROTECTION

All piles in Slope Protection to be creosoted. Length 22' 19-req'd.

Note- For Quantities See Sh. # 3



Borings From Original Bridge Report

DESIGNED
CHECKED
DRAWN CFS.
CHECKED

EXAMINED
PASSED
APPROVED C.M. Hathaway

PROJECT FI-155(13)
S.B.I. RTE. 80 F.A. RTE. 53
SECTION 125-B-Y
KNOX CO.
STA. 150+65

INDEX TO SHEETS

SUMMARY OF QUANTITIES

SEC. 125A

67,875 Cu. Yds. Class A Excavation
20,000 Cu. Yds. Class B Excavation
500 Cu. Yds. Class C Excavation
3,220 Cu. Yds. Class Borrow Excavation
231 Rods Hedge Pulling
90 Each Setting Of Right Of Way Markers
465.9 Cu. Yds. Class A Concrete
43,760 Lbs. Reinforcing Steel

SEC. 125B

962.5 Cu. Yds. Class A Concrete
13.7 Cu. Yds. Class X Concrete
129,340 Lbs Reinforcing Steel
1,500 Lin. Ft. Untreated Piles 10 Ton
1,440 Lin. Ft. Untreated Piles 12 Ton
1,280 Lin. Ft. Untreated Piles 15 Ton
400 Lin. Ft. Untreated Piles 18 Ton
1,646 Lbs. Rockers And Plates
3 Each Name Plates.
199 Sq. Yds. Concrete Pavement (4")

SUMMARY OF CONCRETE

SEC. 125A

		Cu. Yds Class A
14	Standard Culvert Design No. 828-1-3	26.6
1	" " " No. 828-4-3	2.6
1	" " " No. 828-1-8	2.8
1	Special " " Sta. 126+70	16.9
1	" " " Sta. 130+82	14.3
1	" " " Sta. 163+65	11.5
1	" " " Sta. 170+48	14.7
1	" " " Sta. 175+37	14.2
1	" Chute Culvert " Sta. 175+37	2.5
1	" " " Sta. 191+10	5.5
1	" " " Sta. 191+10	5.5
1	" " " Sta. 201+90	59.9
1	" " " Sta. 205+33	11.3
1	" " " Sta. 216+54	59.6
1	" " " Sta. 226+30	12.5
1	" " " Sta. 244+80	5.5
1	" " " Sta. 244+80	7.8
1	" " " Sta. 252+00	54.7
1	" " " Sta. 261+20	19.3
1	" " " Sta. 271+80	5.5
1	" " " Sta. 271+95	6.5
1	" " " Sta. 290+43	34.6
1	" " " Sta. 293+75	15.1
1	" " " Sta. 322+00	44.0
1	" " " Sta. 327+42	12.5
	TOTAL	465.9 Cu. Yds. Class A

SEC. 125B

	Cu. Yds. Class A	Cu. Yds Class X
1 Special Bridge Design Sta. 150+65	374.8	9.7
Sta. 318+53	241.7	4.0
Sta. 344+30	346.0	
TOTAL	962.5	13.7

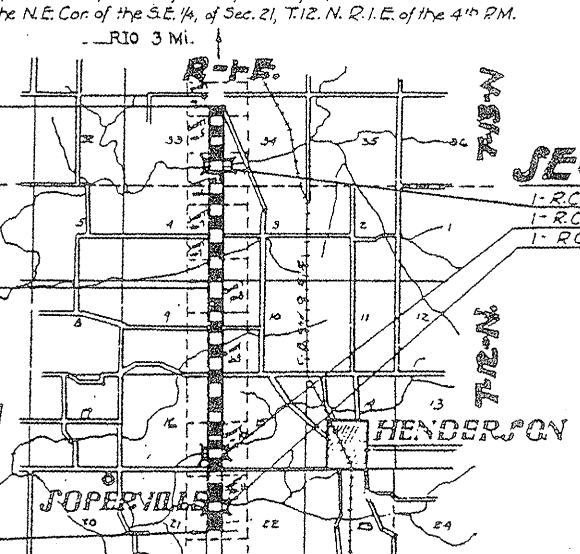
PROJECT 155, SECTION'S 125A, 125B, KNOX CO.

From a point near the N.E. Cor. of Sec. 33, T.13.N., R.1.E. of the 4th P.M.
To a point near the N.E. Cor. of the S.E. 1/4, of Sec. 21, T.12.N. R.1.E. of the 4th P.M.

LAYOUT BEGINS STA. 118+50

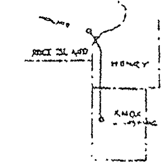
PROPOSED STATE HIGHWAY

LAYOUT ENDS STA. 356+47



SEC. 125B INCLUDES

1 - R.C. Deck Girder Bridge 1 span @ 60'-0" at Sta. 150+65
1 - R.C. Slab Bridge 1 span @ 24'-0" at Sta. 318+53
1 - R.C. Slab Bridge 1 span @ 20'-0" at Sta. 344+30



LAYOUT

Approximate Scale 1 Inch = 1 Mile
Net Length Of Layout Secs. 125A, 125B, = 23,815.06 Feet = 4.510 Miles

SUMMARY

Station to Station		Width of Roadway	Gross Length Along Transit Line	Corrections For Curves		Corrections For Relocations				Net Length of Layout Along Road ℄	Omissions			Net Length to be improved in Feet			Roadway Over Bridges		Sq. Yds. of Roadway		
		Feet	Feet	Sta. of P.I.	Feet	Sta.	Sta.	Feet +	Feet −	Feet	Sta.	to Sta.	Feet	21' 31' 35½ Ft.	41 Ft.	Total	Sta.	Feet	21' 31' 35½ Ft.	41 Ft.	Total
118+50	120+25	41'	175							175.					175	175				797.2	797.2
120+25	126+15	21'	590							590				590		590			1376.7		1376.7
126+15	132+50	41'	635							635					635	635				2892.8	2892.8
132+50	141+75	21'	925							925				925		925			2158.3		2158.3
141+75	142+10	31'	35							35				35		35			120.6		120.6
142+10	150+33.5	41'	823.5							823.5					823.5	823.5				3751.5	3751.5
150+33.5	150+96.5	Br.	63							63	150+33.5	150+96.5	* 63		63	63	150+65	60.0			
150+96.5	155+20	41'	423.5							423.5					423.5	423.5				1929.3	1929.3
155+20	161+75	21'	655							655				655		655			1528.3		1528.3
161+75	197+75	41'	3600			172+21.76	172+03.95	17.81		3617.81					3617.81	3617.81				16,481.1	16,481.1
197+75	200+50	21'	275							275				275		275			641.7		641.7
200+50	203+25	41'	275							275					275	275				1252.8	1252.8
203+25	215+00	21'	1175							1175				1175		1175			2741.7		2741.7
215+00	218+10	41'	310							310					310	310				1412.2	1412.2
218+10	222+00	21'	390							390				390		390			910.0		910.0
222+00	306+00	41'	8400							8400					8400	8400				38,266.7	38,266.7
306+00	314+75	21'	875							875				875		875			2041.7		2041.7
314+75	318+40	41'	365							365.					365	365				1662.8	1662.8
318+40	318+66	Br.	26							26.0	318+40	318+66	26		26	26	318+53	26.0			
318+66	322+75	41'	409.0							409.					409	409				1863.2	1863.2
322+75	326+50	21'	375							375				375		375			875		875.0
326+50	334+50	41'	800							800					800	800				3644.4	3644.4
334+50	339+50	21'	500							500				500		500			1166.7		1166.7
339+50	344+18.75	35.5'	468.75							468.75				468.75		468.75			1848.9		1848.9
344+18.75	344+41.25	35.5	22.5							22.5				22.5		22.5	344+30	20.0	88.8		88.8
344+41.25	346+75	35.5	234							234				234		234			923		923.0
346+75	356+47	21'	972							972				972		972			2268		2268
			23,797.25					17.81		23,815.06			89	7492.25	16,322.81	23,815.06		106.	18,689.4	73,954	92,643.4

* Omission From Sec. 125A Only
Included in Sec. 125B

STATE OF ILLINOIS DEPARTMENT OF PUBLIC WORKS AND BUILDINGS DIVISION OF HIGHWAYS	
SUBMITTED:	Feb. 1, 19 28 — Theo. Plack, District Engineer
DRAWING:	March 15, 19 28
PASSED:	March 15, 19 28 — [signature]
APPROVED:	March 15, 19 28 — Frank T. Sheets, Chief Highway Engineer
APPROVED:	March 15, 19 28 — [signature]

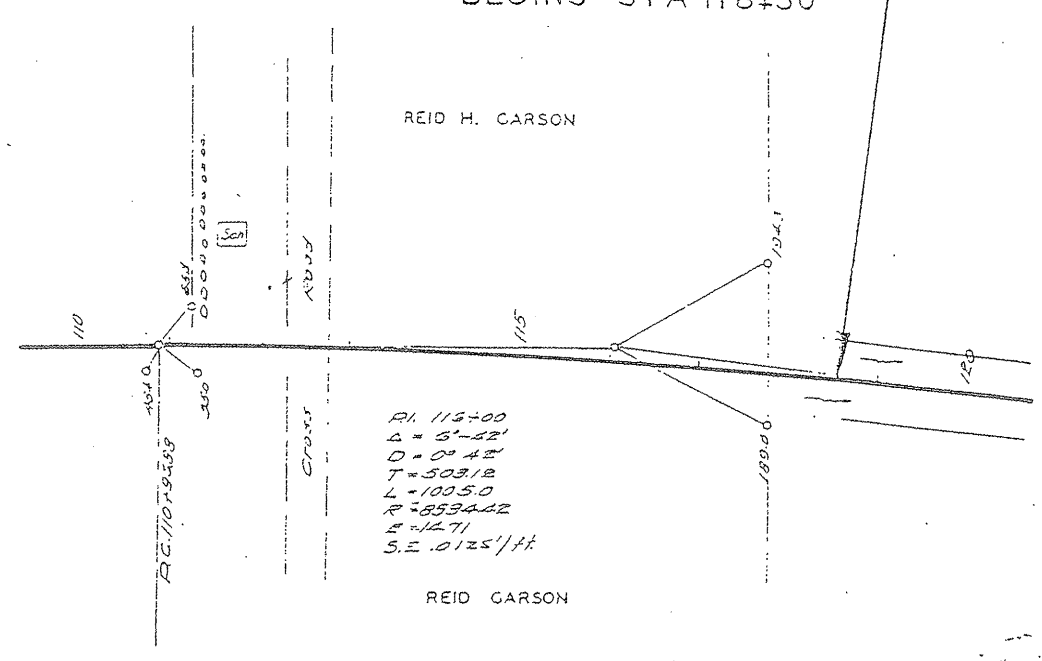
4-27

ROUTE NO.	SEC.	COUNTY	TOTAL SHEETS	SHEET NO.
30	125	Knox	37	4
STA. 113+50		TO STA. 120+00		

T 13 N R 1 E 4 P.M.

S.B.I. 21 NO. 80, Sec. 2 (25), Knox Co. Sta 118+50 - 120+00

PROPOSED IMPROVEMENT BEGINS STA 118+50



NOTES:- A furrow shall be plowed as directed by the Engineer at the top of all back slopes where the cut is six feet or greater. This furrow shall be approximately three feet back of edge of the slope.

The Road shall be puddled for a distance of ten feet on each side of all cross road culverts.

All back slopes within R.O.W. shall be trimmed to a uniform slope.

Special back slopes to be constructed as on cross sections.

Payment for this work and also all puddling of fills shall be included in the unit bid per cubic yard of Class "A" Excavation.

General Notes

A furrow shall be plowed as directed by the Engineer three feet out from the toe of all fills where no ditches are provided on the cross sections.

A furrow shall be plowed as directed by the Engineer at the top of all back slopes where the cut is six feet or greater. This furrow shall be approximately three feet back of the edge of the slope.

The road shall be watersoaked for a distance of ten feet on each side of all across road culverts.

All back slopes within the Right of Way shall be trimmed to a uniform surface.

Special back slopes and ditches shall be constructed as shown on the cross sections.

Payment for the above work shall be included in the unit price bid per cubic yard of Class "A" Excavation.

General Notes.

The contractor shall construct ½ inch open joints in the pavement at such locations as are designated by the Engineer in accordance with Standard #1283.

The cost of constructing these joints shall be included in the unit price for pavement and no extra compensation will be allowed.

The Bituminous Filler for the joints will be furnished and installed by the Department at its own expense.

Excavation:

The excavation between Sta. 118+50 and Sta 356+47 is estimated at 3000 Cubic Yds per mile. All excavation shall be considered as Class "A".

The heavy grading and drainage structures have been completed on this job under Rte 30 Sec 125-A.

See Special Provisions.

All tie bars used to connect gutter section and lip curb outlets to the pavement slab proper shall be of new billet steel, structural grade. Furnishing and Placing these tie bars shall be included in the unit price bid per cu yd Class "X" concrete and per lineal foot of concrete gutter.

Note:- The earth removed in shaping the subgrade for the pavement and not needed to complete the earth shoulders immediately adjacent thereto, shall be disposed of by the Contractor as directed by the Engineer, without additional compensation, it being understood that the cost of performing such work is included in the unit price bid for the particular type of excavation.

STANDARD PAVING SECTION 1257
18' PAVEMENT 40' ROAD
STA 118+50 — 356+47
UNLESS OTHERWISE NOTED

DEDUCTION - GRAVEL
STA. 150+29.3 - 150+33.5
" 202+96.8 - 203+00
" 315+00 - 315+01.6
" 318+38 - 318+40
" 346+58 - 346+60
12.8'

DEDUCTION - P.C.C.
STA. 141+96.5 - 142+00
" 200+47.2 - 200+50
" 215+24 - 215+25
" 340+16.5 - 340+20
" 356+45 - 356+47
12.8'

EXTNSION - P.C.C
STA. 315+00 - 315+01.6

EXTENSION - GRAVEL
STA 141+96.5 - 142+00
" 200+47.2 - 200+50
" 215+24 - 215+25
" 318+63.5 - 318+66
" 322+75 - 322+76
" 340+16.5 - 340+20
" 344+18.75 - 344+41.25
36.8'

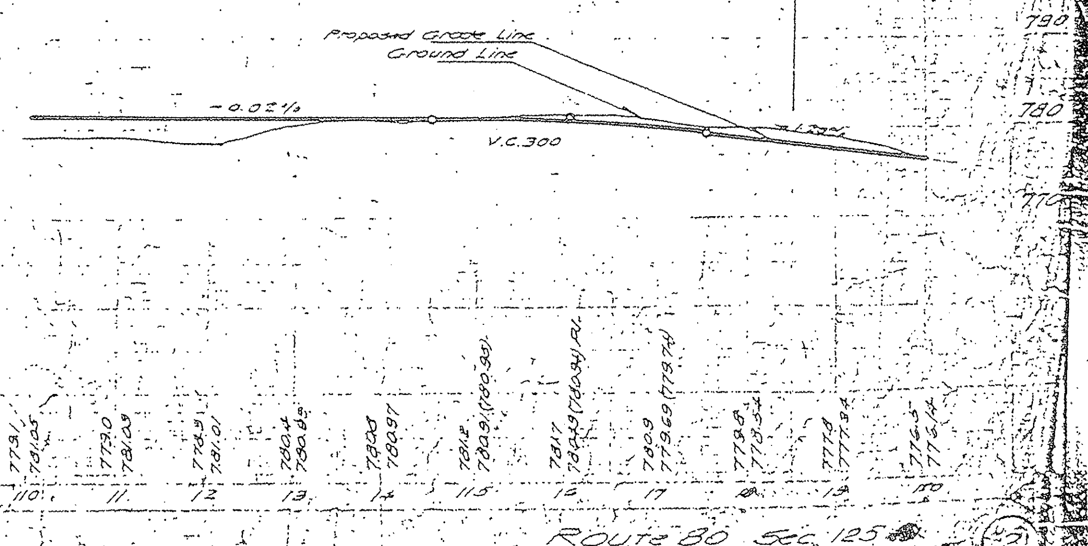
~~B.M. #11 - S Bolt Vert in 24" Elm Lt Sta 111+99 - Elev 780.16~~

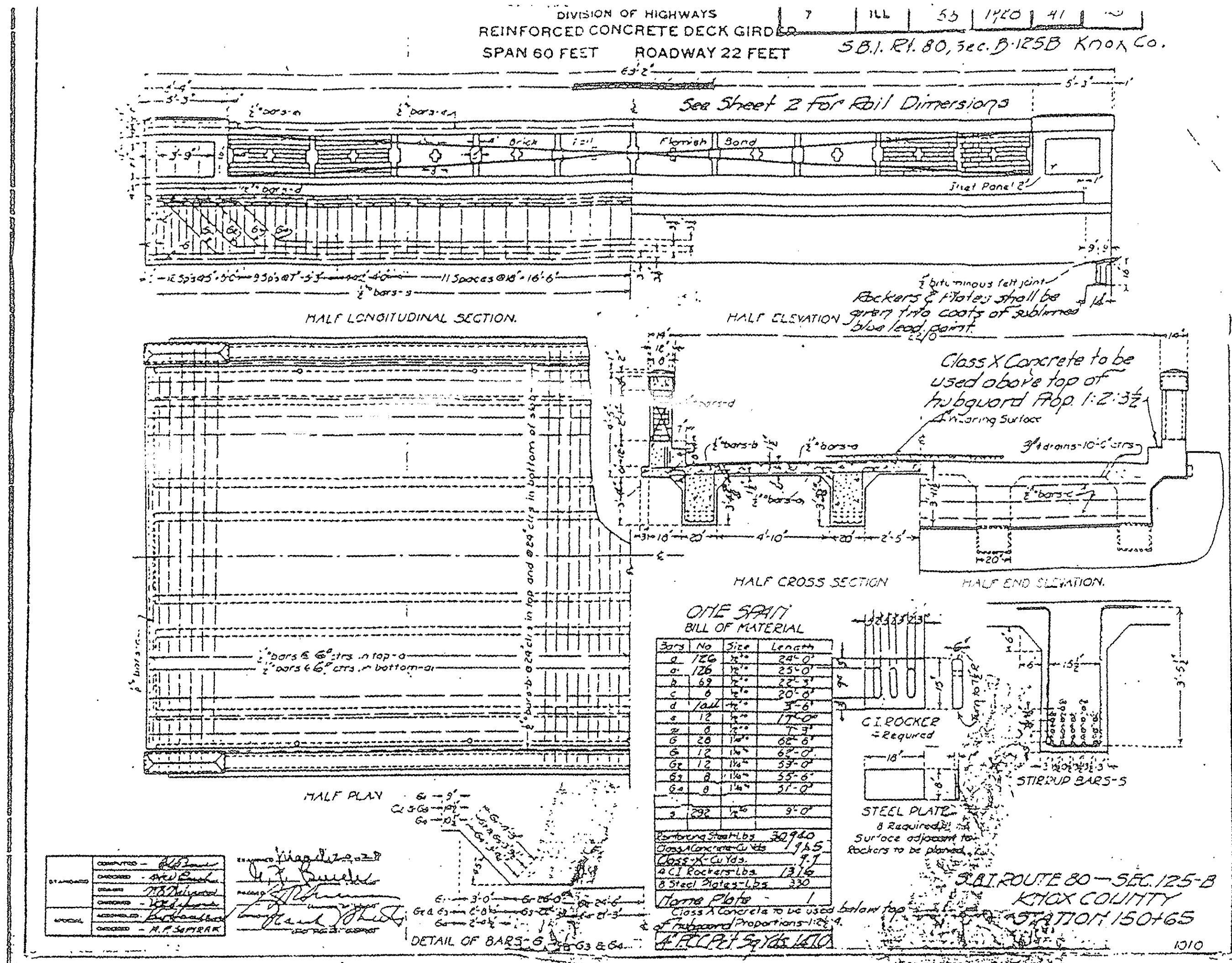
~~STANDARD GRADING SECTION #1232 - 24' ROADWAY - STA 118+50 TO STA 356+47~~
EXCEPT AS OTHERWISE NOTED

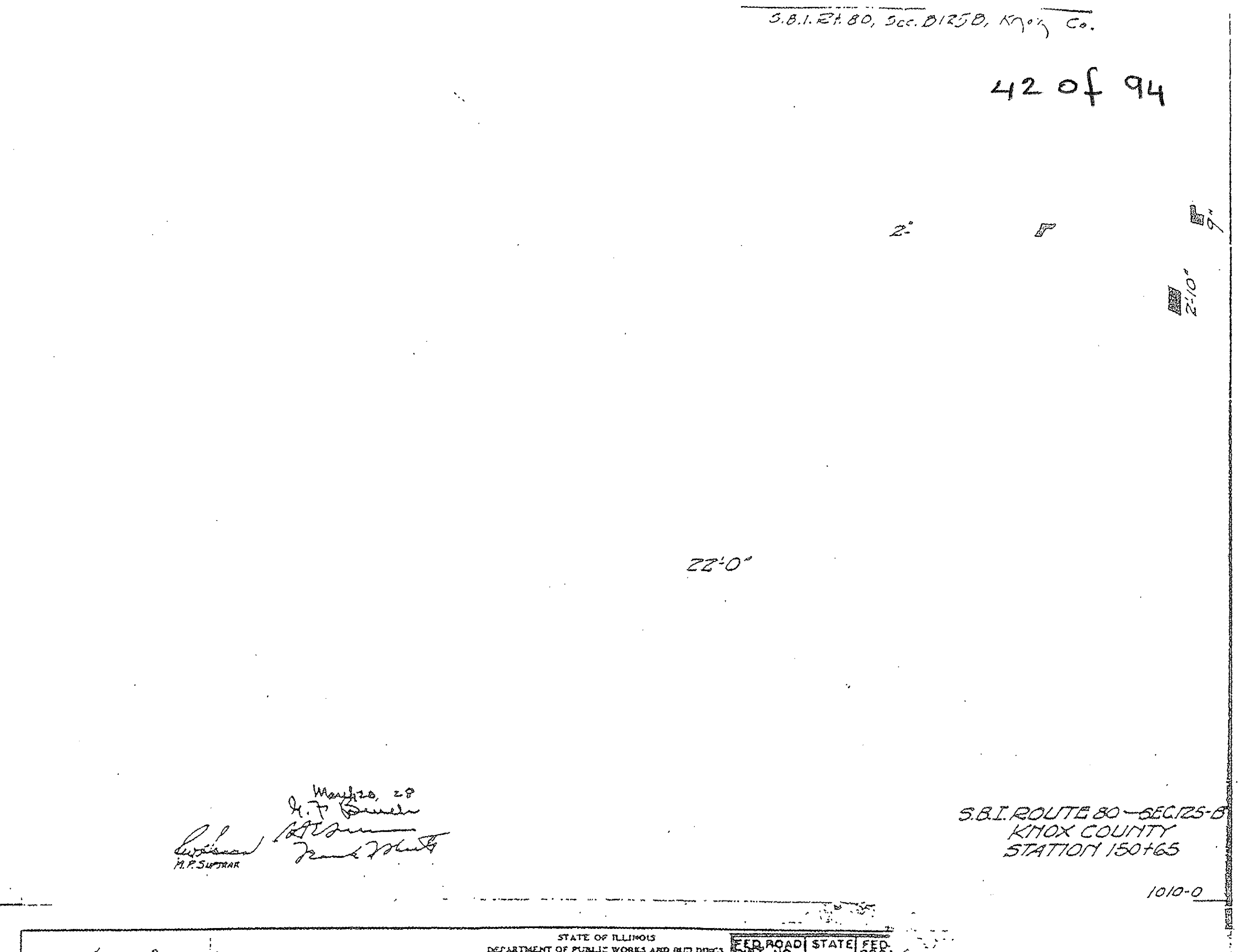
B.M. #11 Reset
⊗ on S. and E. hdwl 2X2 Culvert
Sta. 111+30
Elev 781.52

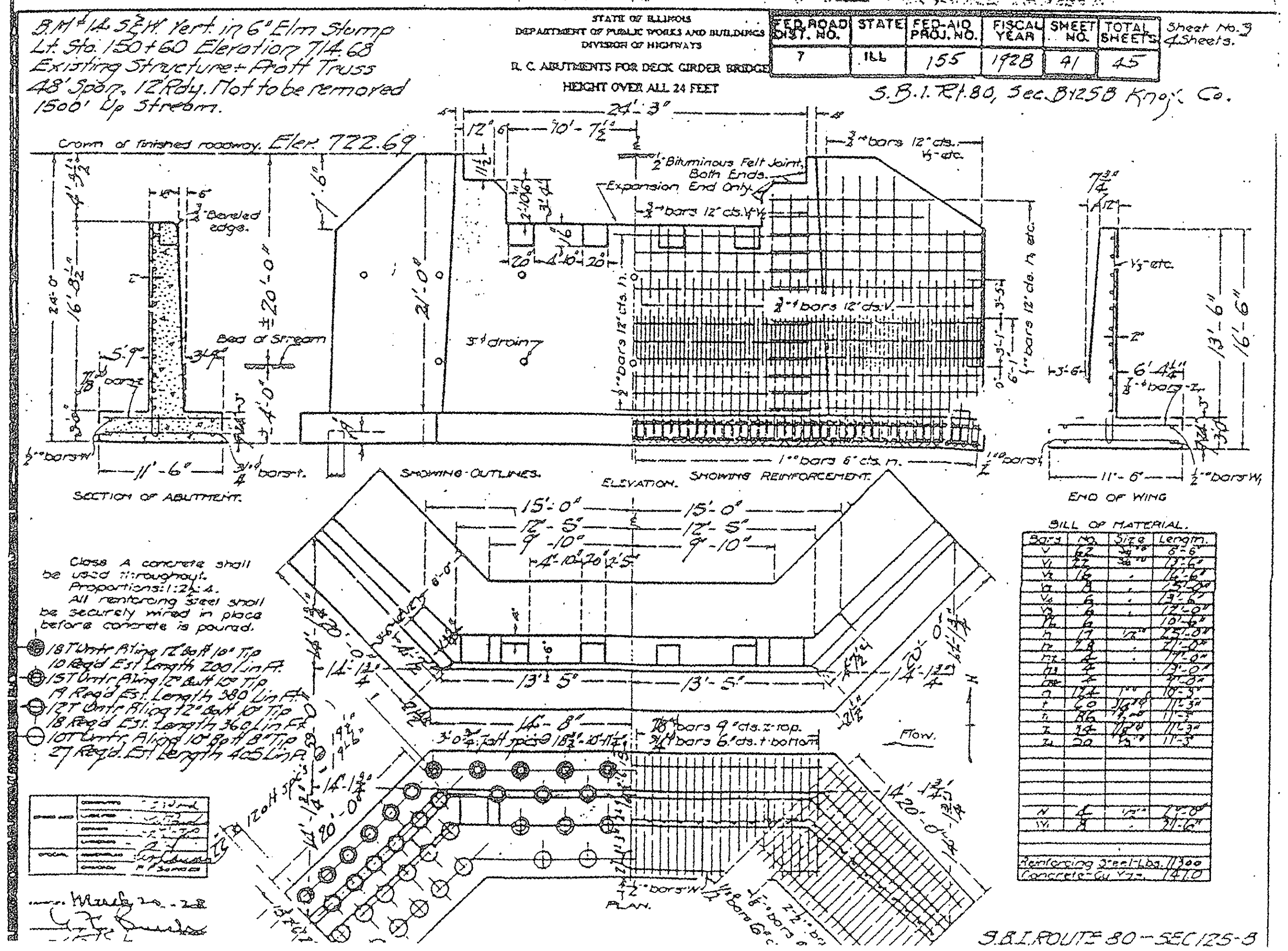
TRAFFIC BOUND GRAVEL OR CRUSHED STONE TEMPORARY SURFACE COURSE
20 Ft. wide ~ Grade No. 3, to be used between

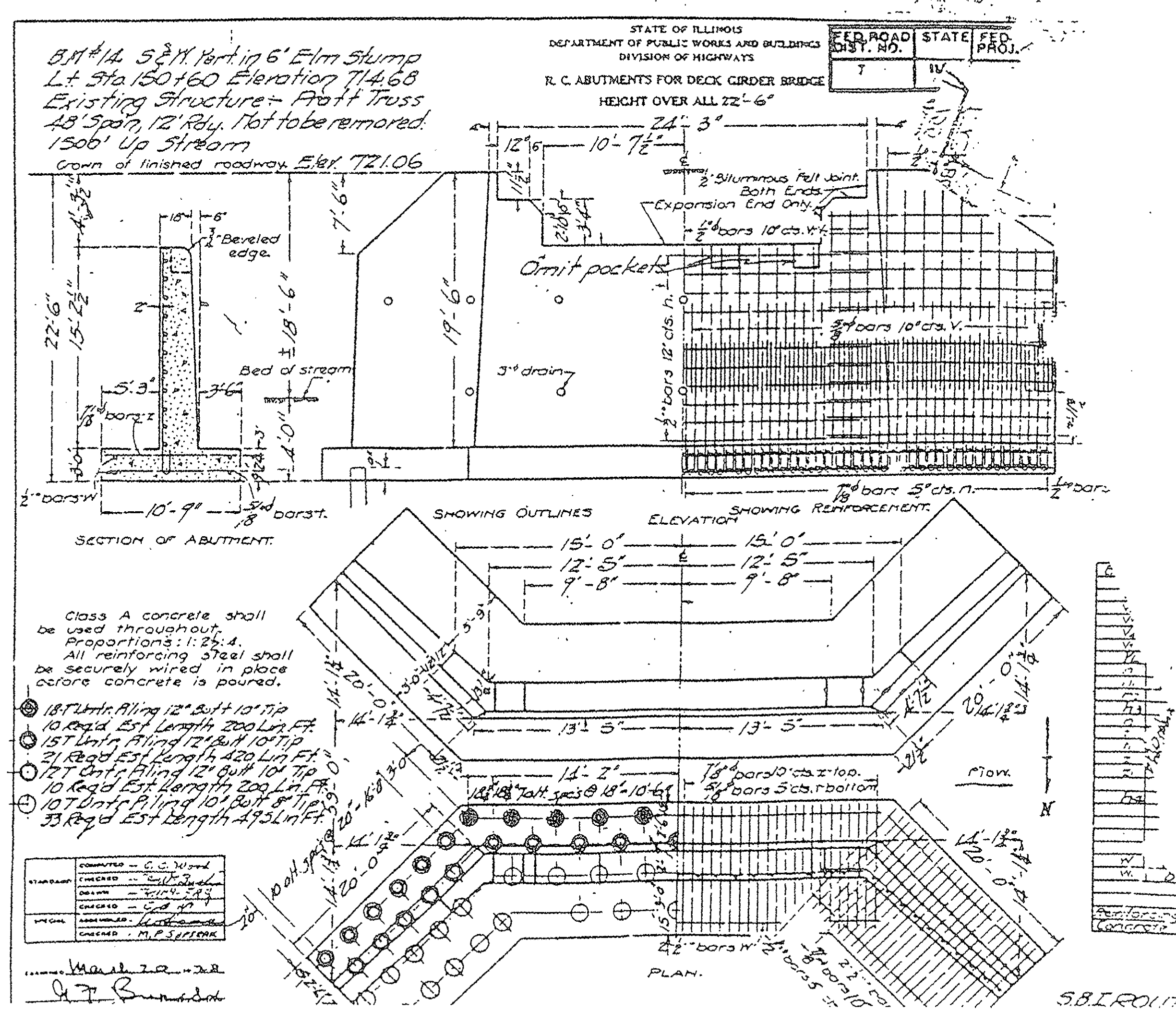
Sta. 142+00	to	Sta. 150+33.5
" 200+50	"	203+00
" 215+25	"	218+00
" 315+00	"	322+75
" 340+20	"	346+60




DIVISION OF HIGHWAYS
REINFORCED CONCRETE DECK GIRDER
SPAN 60 FEET ROADWAY 22 FEET
S.B.I. Rt. 80, Sec. B-125B Knox Co.
See Sheet 2 for Rail Dimensions
HALF LONGITUDINAL SECTION.
HALF ELEVATION
Rockers & Plates shall be given two coats of sublimed blue lead paint.
Class X Concrete to be used above top of hubguard Prop. 1:2:3½
HALF CROSS SECTION
HALF END ELEVATION.
ONE SPAN
BILL OF MATERIAL
HALF PLAN
C.I. ROCKER
STEEL PLATE
STIRRUP BARS-S
DETAIL OF BARS
S.B.I. ROUTE 80 — SEC. 125-B
KNOX COUNTY
STATION 150+65
1010


S.B.I. Rt. 80, Sec. B125B, Knox Co.
2'-0"
22'-0"
S.B.I. ROUTE 80 — SEC. 125-B
KNOX COUNTY
STATION 150+65
1010-0


B.M. #14. S.E.W. Vert. in 6" Elm Stump
Lt. Sta. 150+60 Elevation 714.68
Existing Structure: Pratt Truss
48' Span, 12' Rdy. Not to be removed
1500' Up Stream.
STATE OF ILLINOIS
DEPARTMENT OF PUBLIC WORKS AND BUILDINGS
DIVISION OF HIGHWAYS
R. C. ABUTMENTS FOR DECK GIRDER BRIDGE
HEIGHT OVER ALL 24 FEET
S.B.I. Rt. 80, Sec. B125B Knox Co.
Sheet No. 3
4 Sheets.
Crown of finished roadway. Elev. 722.69
SECTION OF ABUTMENT.
ELEVATION. SHOWING OUTLINES. SHOWING REINFORCEMENT.
END OF WING
BILL OF MATERIAL.
Class A concrete shall be used throughout. Proportions: 1:2½:4. All reinforcing steel shall be securely wired in place before concrete is poured.
PLAN.
S.B.I. ROUTE 80 — SEC. 125-B


B.M. #14. S.E.W. Vert. in 6" Elm Stump
Lt. Sta. 150+60 Elevation 714.68
Existing Structure: Pratt Truss
48' Span, 12' Rdy. Not to be removed.
1500' Up Stream
STATE OF ILLINOIS
DEPARTMENT OF PUBLIC WORKS AND BUILDINGS
DIVISION OF HIGHWAYS
R. C. ABUTMENTS FOR DECK GIRDER BRIDGE
HEIGHT OVER ALL 22'-6"
Crown of finished roadway. Elev. 721.06
Omit pockets
SECTION OF ABUTMENT.
SHOWING OUTLINES ELEVATION SHOWING REINFORCEMENT.
Class A concrete shall be used throughout. Proportions: 1:2½:4. All reinforcing steel shall be securely wired in place before concrete is poured.
PLAN.
S.B.I. ROUTE

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

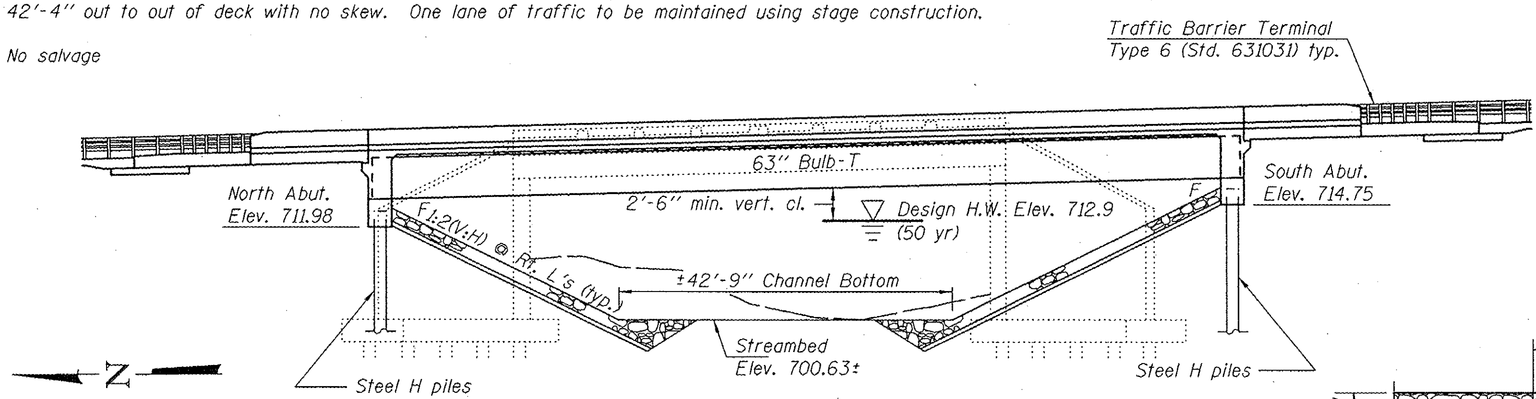
BENCHMARK

Chiseled square on Northeast corner of abutment (SN 048-0027). Elevation 721.18

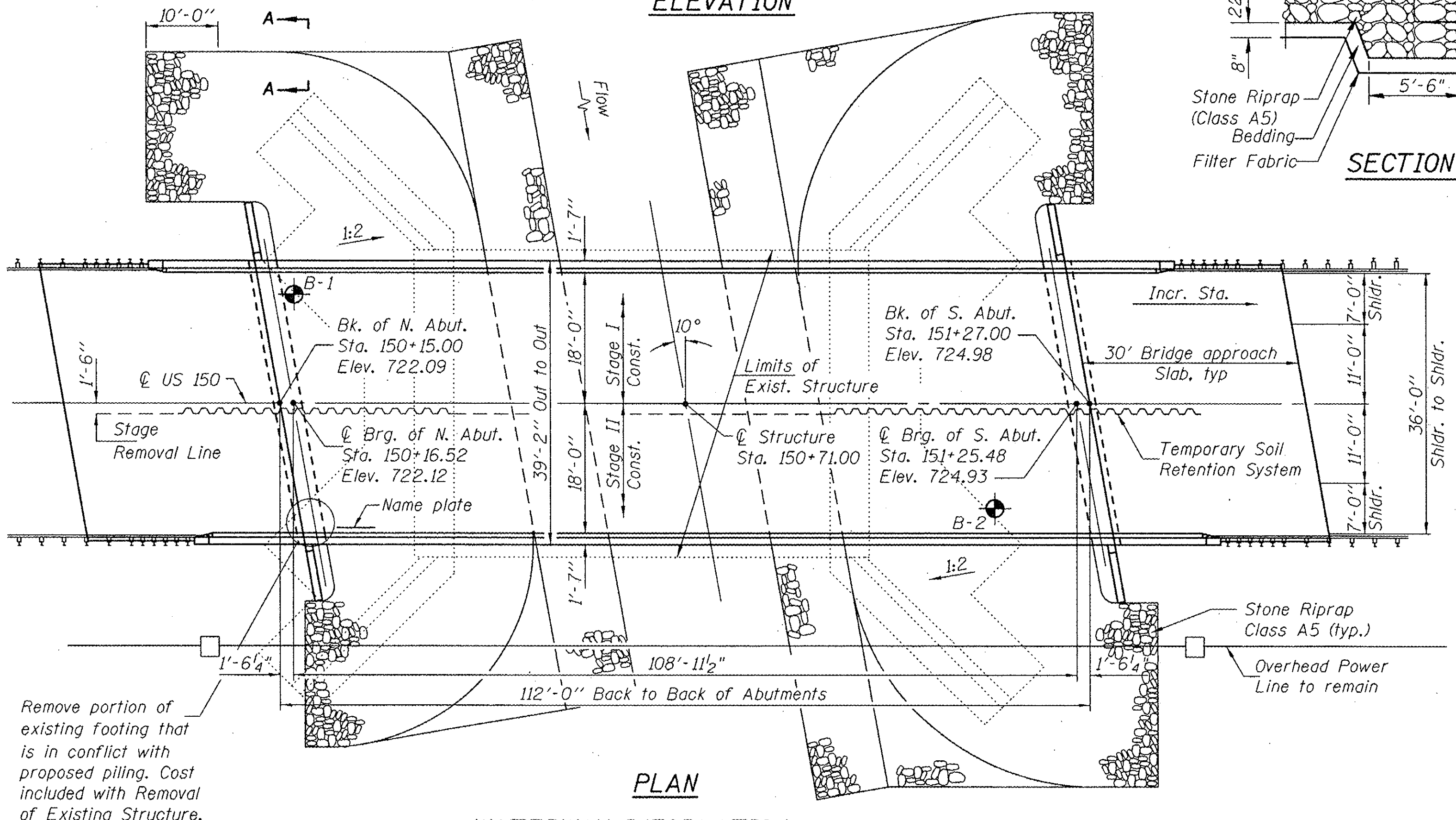
EXISTING STRUCTURE

S.N. 048-0027, built in 1928 and widened in 1951, is a single span reinforced concrete deck with T-beam girders. The structure has closed reinforced concrete abutments and wingwalls. 63' back to back of abutments, 42'-4" out to out of deck with no skew. One lane of traffic to be maintained using stage construction.

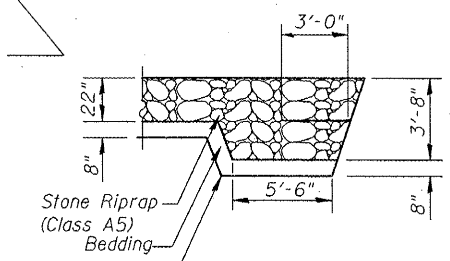
No salvage



ELEVATION



PLAN



SECTION A-A

GENERAL NOTES

Layout of slope protection system may be varied in the field to suit ground conditions as directed by the Engineer.

Reinforcement bars shall conform to the requirements of ASTM A706 GR 60.

Excavation behind existing abutment walls shall be performed to balance front and back soil pressure before removing the existing superstructure. The Contractor shall sawcut the upper portion of the existing abutment at the stage removal line before Stage I removal to ensure the remaining portion will not be prematurely damaged

Reinforcement bars designated (E) shall be epoxy coated.

Slip-forming of the parapets is not allowed.

The embankment configuration shown shall be the minimum that must be placed and compacted prior to construction of the abutments.

DESIGN SPECIFICATIONS

2002 AASHTO LFD

LOADING HS20-44

Allow 50#/sq. ft. for future wearing surface

DESIGN STRESSES

FIELD UNITS

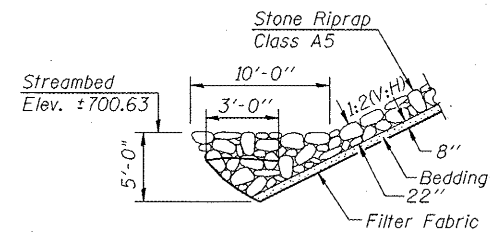
f'_c = 3,500 psi
f_y = 60,000 psi (reinforcement)

PRECAST PRESTRESSED UNITS

f'_c = 6,000 psi
f'_{ci} = 5,000 psi
f'_s = 270,000 psi (1/2" ϕ low relaxation strands)
f_{si} = 201,960 psi (1/2" ϕ low relaxation strands)

SEISMIC DATA

Seismic Performance Category (SPC) = A
Bedrock Acceleration Coefficient (A) = 0.04
Site Coefficient (S) = 1.0



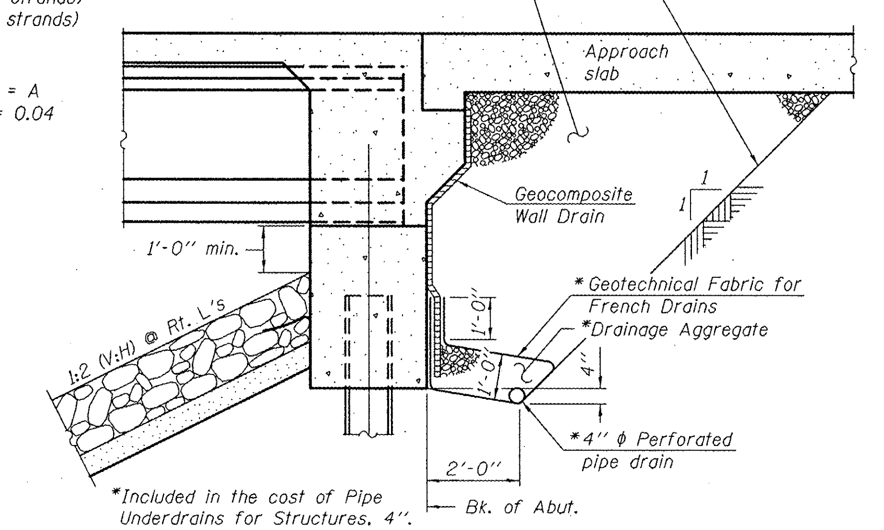
STONE RIPRAP ANCHOR DETAIL

(Dimensions at Rt. Angles)

Contract No. 68087

TOTAL BILL OF MATERIAL

ITEM	UNIT	SUPER	SUB	TOTAL
Porous Granular Embankment, Special	Cu. Yd.		230	230
Stone Riprap, Class A5	Sq. Yd.		1080	1080
Filter Fabric	Sq. Yd.		1080	1080
Removal of Existing Structures	Each			1
Structure Excavation	Cu. Yd.		212	212
Driving Piles	Foot		355	355
Concrete Structures	Cu. Yd.		69.8	69.8
Concrete Superstructure	Cu. Yd.	318.3		318.3
Bridge Deck Grooving	Sq. Yd.	650		650
Protective Coat	Sq. Yd.	815		815
Furnishing and Erecting Precast Prestressed Concrete Bulb T-Beams, 63"	Foot	662		662
Reinforcement Bars, Epoxy Coated	Pound	63720	6420	70140
Furnishing Steel Piles HP12x74	Foot		355	355
Test Pile Steel HP12x74	Each		2	2
Name Plates	Each	1		1
Bar Splicers	Each	562	98	660
Temporary Soil Retention System	Sq. Ft.		809	809
Pipe Underdrains for Structures, 4"	Foot		162	162
Geocomposite Wall Drain	Sq. Yd.		114	114
Concrete Encasement	Cu. Yd.		4.2	4.2



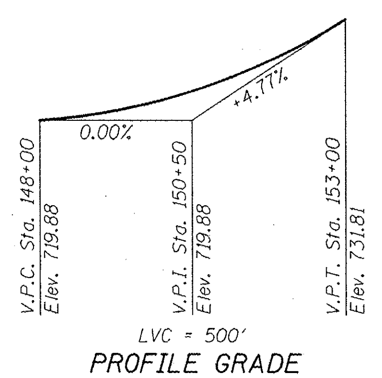
SECTION THRU INTEGRAL ABUTMENT

(Horiz. dim. @ Rt. L's)

Note:
All drainage system components shall extend to 2'-0" from the end of each wingwall except an outlet pipe shall extend until intersecting with the side slopes. The pipes shall drain into concrete headwalls. (See Article 601.05 of the Standard Specifications and Highway Standard 601101).

WATERWAY INFORMATION

Drainage Area = 22.10 mi²			Low Grade Elev. 719.6 ft @ Sta. 148+50							
Flood	Freq. Yr.	Q ft³/s	Opening ft²		Nat. H.W.E. ft	Head - ft		Headwater Elev. - ft		
			Exist.	Prop.		Exist.	Prop.	Exist.	Prop.	
Design	50	3,786	478	822	712.9	1.6	0.4	714.5	713.3	
Base	100	4,391	499	855	713.3	2.0	0.5	715.3	713.8	
Max. Calc.	500	5,861	545	928	714.1	2.8	0.8	716.9	714.9	



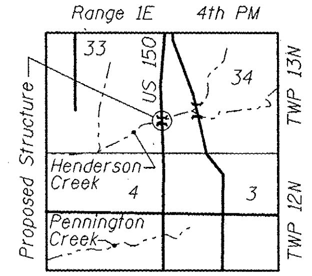
PROFILE GRADE

(along ℄ Roadway)

STATION 150+71.00
BUILT 20__ BY
STATE OF ILLINOIS
F.A.S. RT. 1190 SEC. (125BY)BR
LOADING HS20
STR. NO. 048-0088

NAME PLATE

See Std. 515001



LOCATION SKETCH

INDEX OF SHEETS

DESIGNED Stephen M Ryan
CHECKED Fesl [signature]
DRAWN JMI, KBF
CHECKED SMR / FT

December 2011
EXAMINED [signature]
ENGINEER OF BRIDGE DESIGN
PASSED [signature]
ENGINEER OF BRIDGES AND STRUCTURES

LICENSED STRUCTURAL ENGINEER
DAVID CARL PUZEY
081-005470
SPRINGFIELD ILLINOIS
STATE OF ILLINOIS

US ROUTE 150 OVER HENDERSON CREEK
F.A.S. ROUTE 1190 - SEC. (125BY)BR
KNOX COUNTY
STATION 150+71.00
STRUCTURE NO. 048-0088

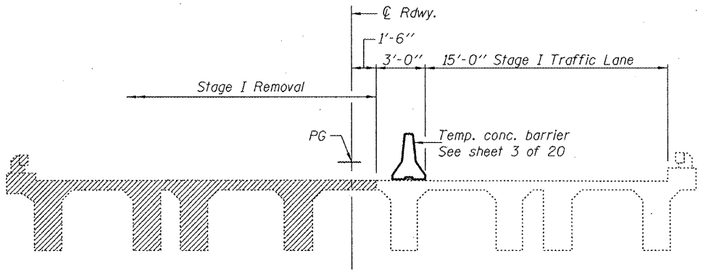
GENERAL PLAN & ELEVATION

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

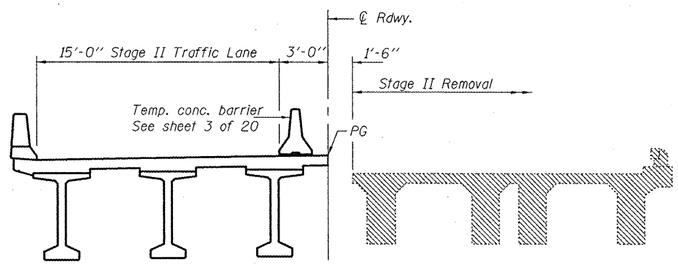
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAS 1190	(125BY)BR	KNOX	34	44
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT-		

SHEET NO. 2
20 SHEETS

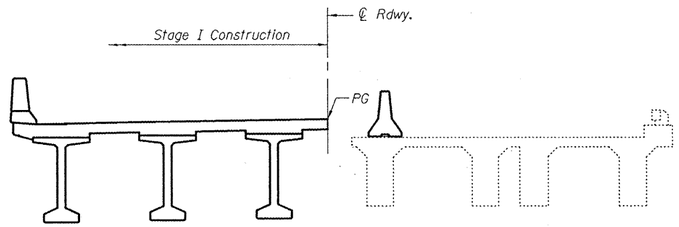
Contract No. 68087



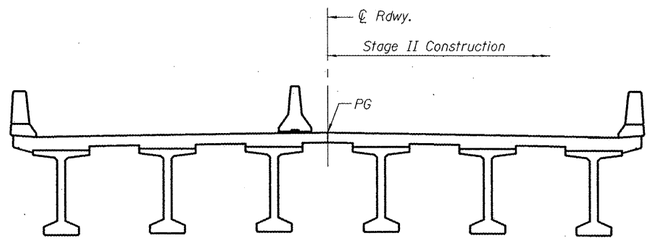
STAGE I REMOVAL



STAGE II REMOVAL

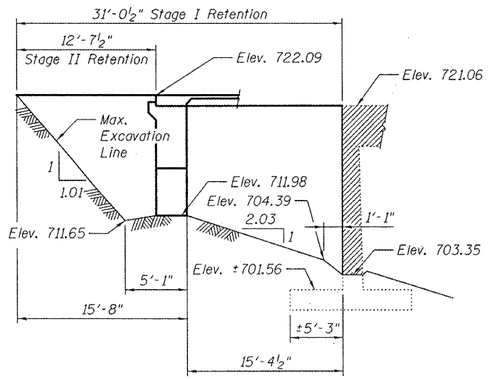


STAGE I CONSTRUCTION

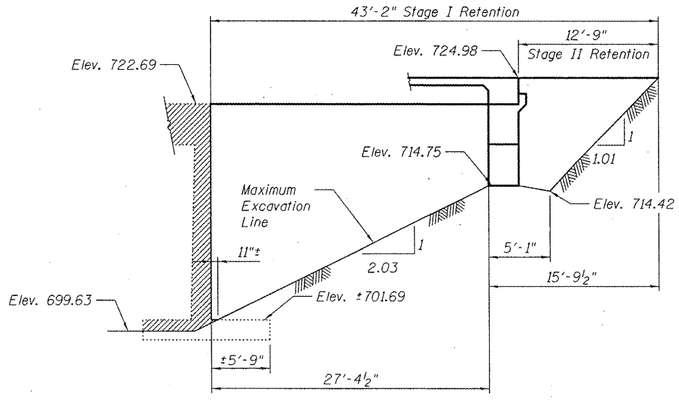


STAGE II CONSTRUCTION

Notes:
Hatched areas indicate removal of existing structures.
For quantity of temporary concrete barrier, see roadway plans.
A cantilevered sheet piling design does not appear feasible and additional members or other retention systems may be necessary. The contractor shall submit a temporary soil retention system design including plan details and calculations for review and acceptance by the engineer.
All cross sections are looking south.



TEMPORARY SOIL RETENTION SYSTEM AT NORTH ABUT.



TEMPORARY SOIL RETENTION SYSTEM AT SOUTH ABUT.

DESIGNED	SMR
CHECKED	FT
DRAWN	JMI. KBF
CHECKED	SMR/FT

US ROUTE 150 OVER HENDERSON CREEK
F.A.S. ROUTE 1190 - SEC. (125BY)BR
KNOX COUNTY
STATION 150+71.00
STRUCTURE NO. 048-0088

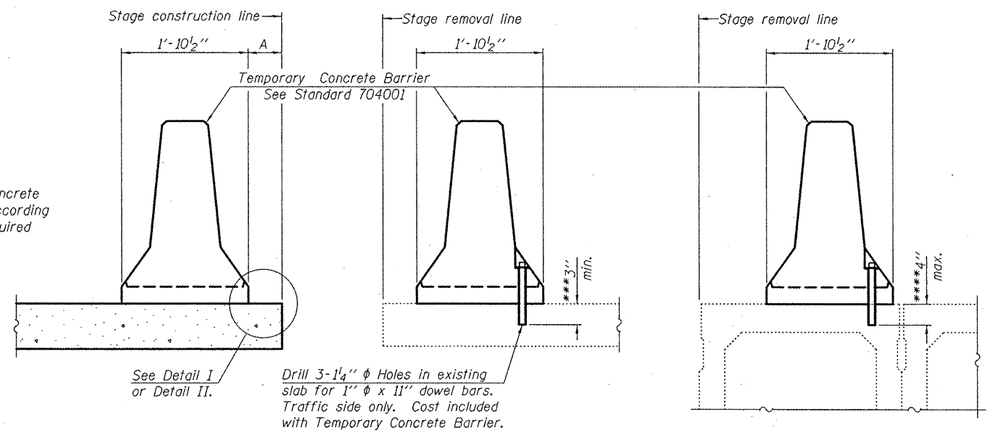
STAGE CONSTRUCTION & TEMP. SOIL RETENTION DETAILS

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAS 1190	(125BY)BR	KNOX	94	45
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT-		

SHEET NO. 3
20 SHEETS

Contract No. 68087



NEW SLAB | EXISTING SLAB | EXISTING DECK BEAM

When "A" is 3'-6" or less, the temporary concrete barrier shall be anchored to the new slab according to Detail I or Detail II. No anchorage is required when "A" is greater than 3'-6".

NOTES

Detail I - With Bar Splicer or Couplers:
Connect one (1) 1" x 7" x "W" steel ℄ to the top layer of couplers with 2-⅝" ϕ bolts screwed to coupler at approximate ℄ of each barrier panel.

Detail II - With Extended Reinforcement Bars:
Connect one (1) 1" x 7" x "W" steel ℄ to the concrete slab or concrete wearing surface with 2-⅝" ϕ Expansion Anchors or cast in place inserts spaced between the top layer of reinforcement at approximate ℄ of each barrier panel.

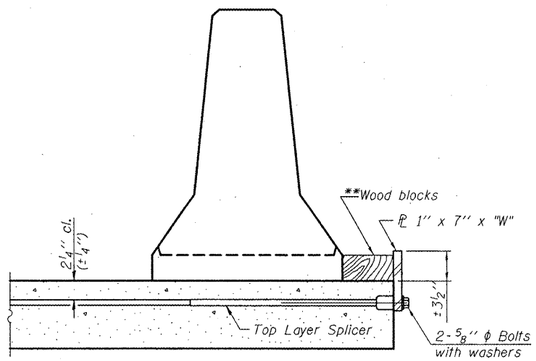
Cost of anchorage is included with Temporary Concrete Barrier.

The 1" x 7" x "W" plate shall not be removed until stage II construction forms and all reinforcement bars are in place and the concrete is ready to be placed.

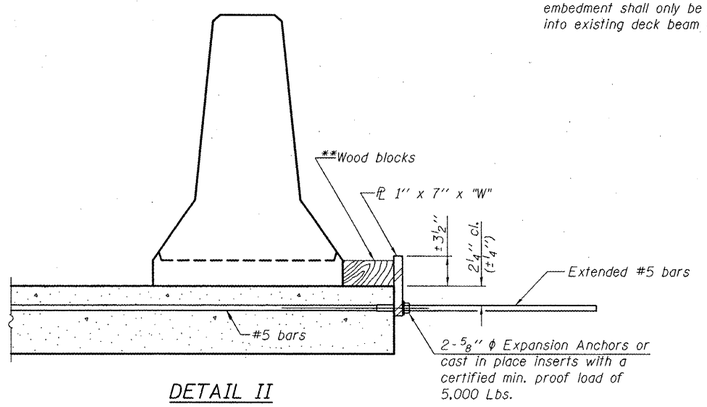
SECTIONS THRU SLAB OR DECK BEAM

*** Dimension shown is minimum required embedment into concrete. If hot-mix asphalt wearing surface is present, minimum embedment shall be in addition to wearing surface depth.

**** If existing deck beam is to remain in place after stage construction, embedment shall only be into wearing surface and not into existing deck beam concrete.



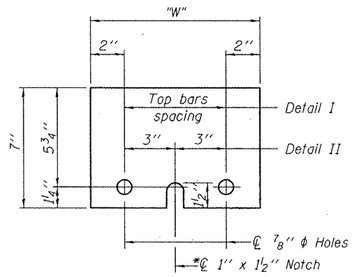
DETAIL I



DETAIL II

** Wood blocks may be omitted when required to provide minimum stage traffic lane width. When the wood blocks are omitted, the concrete barrier shall be in direct contact with the steel retainer plate.

"W" = Top bars spacing + 4"



STEEL RETAINER ℄ 1" x 7" x "W"

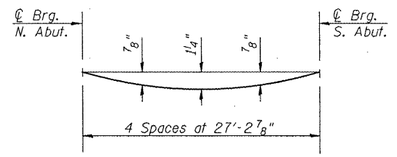
* Required only with Detail II

DESIGNED	SMR
CHECKED	FT
DRAWN	KBF
CHECKED	SMR/FT

R-27 7-1-10

US ROUTE 150 OVER HENDERSON CREEK
F.A.S. ROUTE 1190 - SEC. (125BY)BR
KNOX COUNTY
STATION 150+71.00
STRUCTURE NO. 048-0088

TEMPORARY CONCRETE BARRIER

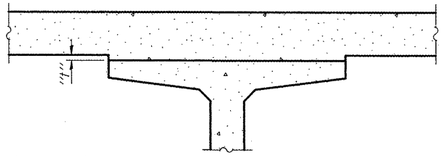


DEAD LOAD DEFLECTION DIAGRAM

(Includes weight of concrete, excluding beams).

Note:
The above deflections are not to be used in the field if the engineer is working from the grade elevations adjusted for dead load deflections as shown below.

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION



To determine "t": After all precast prestressed beams have been erected, elevations of the top flanges of the beams shall be taken at intervals shown below. These elevations subtracted from the "Theoretical Grade Elevations Adjusted for Dead Load Deflections" shown below, minus slab thickness, equals the fillet heights "t" above top flanges of beams.

FILLET HEIGHTS

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAS 1190	(125BY)BR	KNOX	94	46
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT-		

SHEET NO. 4
20 SHEETS

Contract No. 68087

BEAM 1

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
BK. N Abut	150+12.10	-16.46	721.75	721.75
℄ Brg N Abut	150+13.62	-16.46	721.78	721.78
C	150+23.62	-16.46	721.99	722.01
D	150+33.62	-16.46	722.20	722.26
E	150+43.62	-16.46	722.43	722.51
F	150+53.62	-16.46	722.67	722.76
G	150+63.62	-16.46	722.92	723.02
H	150+73.62	-16.46	723.17	723.27
I	150+83.62	-16.46	723.44	723.53
J	150+93.62	-16.46	723.71	723.79
K	151+03.62	-16.46	724.00	724.05
L	151+13.62	-16.46	724.29	724.32
℄ Brg S Abut	151+22.58	-16.46	724.56	724.56
BK. S Abut	151+24.10	-16.46	724.61	724.61

BEAM 2

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
BK. N Abut	150+13.26	-9.88	721.90	721.90
℄ Brg N Abut	150+14.78	-9.88	721.93	721.93
C	150+24.78	-9.88	722.14	722.17
D	150+34.78	-9.88	722.36	722.41
E	150+44.78	-9.88	722.58	722.66
F	150+54.78	-9.88	722.82	722.92
G	150+64.78	-9.88	723.07	723.17
H	150+74.78	-9.88	723.33	723.43
I	150+84.78	-9.88	723.59	723.69
J	150+94.78	-9.88	723.87	723.95
K	151+04.78	-9.88	724.16	724.21
L	151+14.78	-9.88	724.45	724.48
℄ Brg S Abut	151+23.74	-9.88	724.73	724.73
BK. S Abut	151+25.26	-9.88	724.77	724.77

BEAM 3

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
BK. N Abut	150+14.42	-3.29	722.02	722.02
℄ Brg N Abut	150+15.94	-3.29	722.05	722.05
C	150+25.94	-3.29	722.26	722.29
D	150+35.94	-3.29	722.48	722.54
E	150+45.94	-3.29	722.71	722.79
F	150+55.94	-3.29	722.95	723.05
G	150+65.94	-3.29	723.20	723.30
H	150+75.94	-3.29	723.46	723.56
I	150+85.94	-3.29	723.73	723.82
J	150+95.94	-3.29	724.01	724.08
K	151+05.94	-3.29	724.29	724.35
L	151+15.94	-3.29	724.59	724.62
℄ Brg S Abut	151+24.90	-3.29	724.86	724.86
BK. S Abut	151+26.42	-3.29	724.91	724.91

℄ ROADWAY, PG & STAGE CONST. JT.

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
BK. N Abut	150+15.00	0.00	722.09	722.09
℄ Brg N Abut	150+16.52	0.00	722.12	722.12
C	150+26.52	0.00	722.33	722.36
D	150+36.52	0.00	722.55	722.60
E	150+46.52	0.00	722.78	722.86
F	150+56.52	0.00	723.02	723.11
G	150+66.52	0.00	723.27	723.37
H	150+76.52	0.00	723.53	723.63
I	150+86.52	0.00	723.80	723.89
J	150+96.52	0.00	724.07	724.15
K	151+06.52	0.00	724.36	724.42
L	151+16.52	0.00	724.66	724.69
℄ Brg S Abut	151+25.48	0.00	724.93	724.93
BK. S Abut	151+27.00	0.00	724.98	724.98

BEAM 4

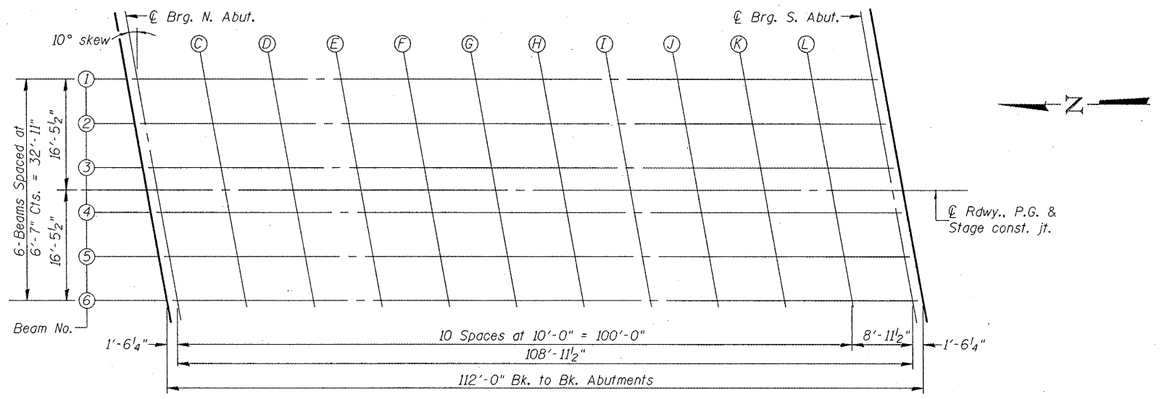
Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
BK. N Abut	150+15.58	3.29	722.05	722.05
℄ Brg N Abut	150+17.10	3.29	722.08	722.08
C	150+27.10	3.29	722.29	722.32
D	150+37.10	3.29	722.51	722.57
E	150+47.10	3.29	722.74	722.82
F	150+57.10	3.29	722.98	723.07
G	150+67.10	3.29	723.23	723.33
H	150+77.10	3.29	723.49	723.59
I	150+87.10	3.29	723.76	723.85
J	150+97.10	3.29	724.04	724.11
K	151+07.10	3.29	724.33	724.38
L	151+17.10	3.29	724.63	724.65
℄ Brg S Abut	151+26.06	3.29	724.90	724.90
BK. S Abut	151+27.58	3.29	724.95	724.95

BEAM 5

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
BK. N Abut	150+16.74	9.88	721.97	721.97
℄ Brg N Abut	150+18.26	9.88	722.00	722.00
C	150+28.26	9.88	722.21	722.24
D	150+38.26	9.88	722.43	722.49
E	150+48.26	9.88	722.67	722.74
F	150+58.26	9.88	722.91	723.00
G	150+68.26	9.88	723.16	723.26
H	150+78.26	9.88	723.42	723.52
I	150+88.26	9.88	723.69	723.78
J	150+98.26	9.88	723.97	724.05
K	151+08.26	9.88	724.26	724.31
L	151+18.26	9.88	724.56	724.58
℄ Brg S Abut	151+27.22	9.88	724.83	724.83
BK. S Abut	151+28.74	9.88	724.88	724.88

BEAM 6

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
BK. N Abut	150+17.90	16.46	721.86	721.86
℄ Brg N Abut	150+19.43	16.46	721.90	721.90
C	150+29.43	16.46	722.11	722.14
D	150+39.43	16.46	722.33	722.39
E	150+49.43	16.46	722.57	722.65
F	150+59.43	16.46	722.81	722.90
G	150+69.43	16.46	723.06	723.16
H	150+79.43	16.46	723.32	723.42
I	150+89.43	16.46	723.60	723.69
J	150+99.43	16.46	723.88	723.95
K	151+09.43	16.46	724.17	724.22
L	151+19.43	16.46	724.47	724.49
℄ Brg S Abut	151+28.38	16.46	724.74	724.74
BK. S Abut	151+29.90	16.46	724.79	724.79



PLAN

DESIGNED	SMR
CHECKED	FT
DRAWN	JMI. KBF
CHECKED	SMR/FT

US ROUTE 150 OVER HENDERSON CREEK
F.A.S. ROUTE 1190 - SEC. (125BY)BR
KNOX COUNTY
STATION 150+71.00
STRUCTURE NO. 048-0088

TOP OF SLAB ELEVATIONS

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAS 1190	(125BY)BR	KNOX	24	4
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT-		

SHEET NO. 5
20 SHEETS

Contract No. 68087

EAST EDGE OF SHOULDER

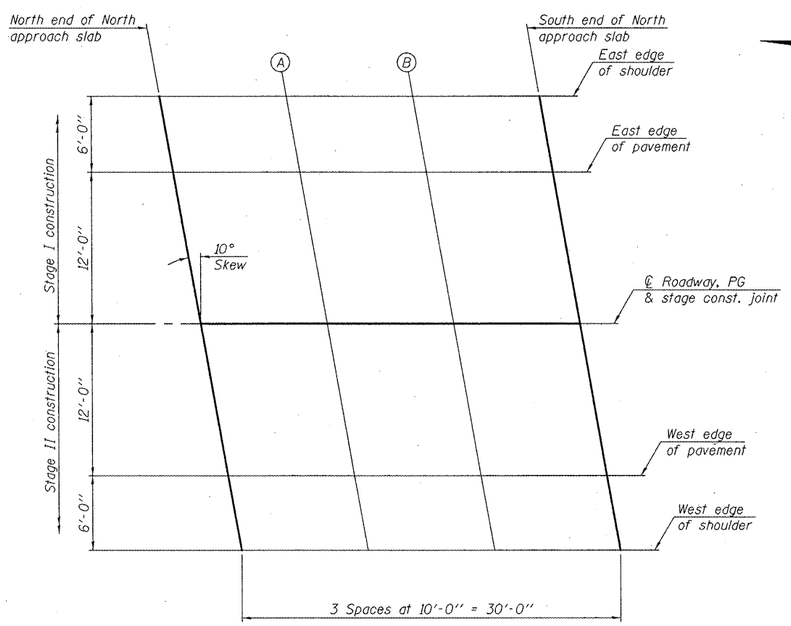
Location	Station	Offset	Theoretical Grade Elevations
N. end of N. appr. slab	149+81.83	-18.00	721.14
A	149+91.83	-18.00	721.32
B	150+01.83	-18.00	721.51
S. end of N. appr. slab	150+11.83	-18.00	721.71

EAST EDGE OF PAVEMENT

Location	Station	Offset	Theoretical Grade Elevations
N. end of N. appr. slab	149+82.88	-12.00	721.29
A	149+92.88	-12.00	721.47
B	150+02.88	-12.00	721.66
S. end of N. appr. slab	150+12.88	-12.00	721.85

℄ ROADWAY, PG, & STAGE CONSTRUCTION JOINT

Location	Station	Offset	Theoretical Grade Elevations
N. end of N. appr. slab	149+85.00	0.00	721.51
A	149+95.00	0.00	721.69
B	150+05.00	0.00	721.88
S. end of N. appr. slab	150+15.00	0.00	722.08



PLAN

WEST EDGE OF PAVEMENT

Location	Station	Offset	Theoretical Grade Elevations
N. end of N. appr. slab	149+87.12	12.00	721.36
A	149+97.12	12.00	721.55
B	150+07.12	12.00	721.74
S. end of N. appr. slab	150+17.12	12.00	721.94

WEST EDGE OF SHOULDER

Location	Station	Offset	Theoretical Grade Elevations
N. end of N. appr. slab	149+88.17	18.00	721.26
A	149+98.17	18.00	721.44
B	150+08.17	18.00	721.63
S. end of N. appr. slab	150+18.17	18.00	721.84

DESIGNED	SMR
CHECKED	FT
DRAWN	MBM
CHECKED	SMR/FT

US ROUTE 150 OVER HENDERSON CREEK
F.A.S. ROUTE 1190 - SEC. (125BY)BR
KNOX COUNTY
STATION 150+71.00
STRUCTURE NO. 048-0088

TOP OF NORTH APPROACH SLAB ELEVATIONS

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAS 1190	(125BY)BR	KNOX	94	48
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT-		

SHEET NO. 6
20 SHEETS

Contract No. 68087

EAST EDGE OF SHOULDER

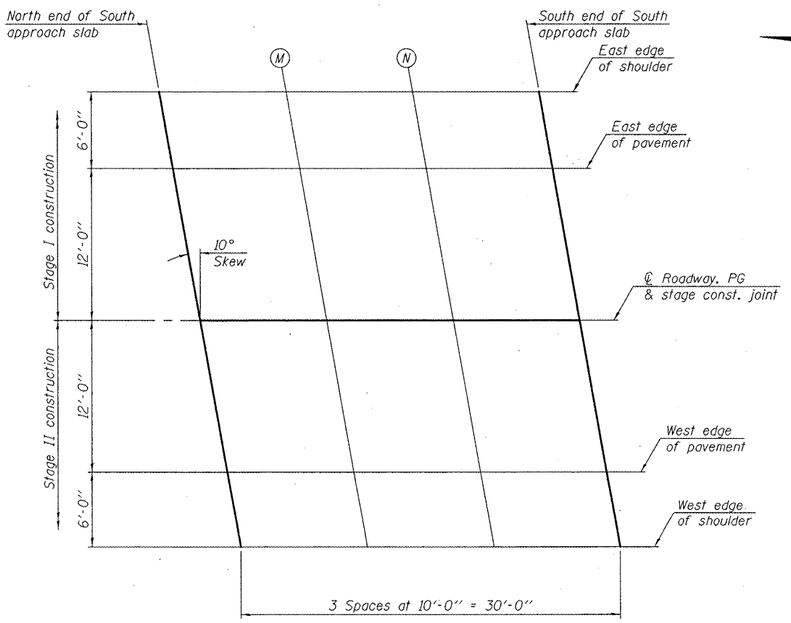
Location	Station	Offset	Theoretical Grade Elevations
N. end of S. appr. slab	151+23.83	-18.00	724.57
M	151+33.83	-18.00	724.88
N	151+43.83	-18.00	725.21
S. end of S. appr. slab	151+53.83	-18.00	725.54

EAST EDGE OF PAVEMENT

Location	Station	Offset	Theoretical Grade Elevations
N. end of S. appr. slab	151+24.88	-12.00	724.73
M	151+34.88	-12.00	725.04
N	151+44.88	-12.00	725.37
S. end of S. appr. slab	151+54.88	-12.00	725.70

℄ ROADWAY, PG, & STAGE CONSTRUCTION JOINT

Location	Station	Offset	Theoretical Grade Elevations
N. end of S. appr. slab	151+27.00	0.00	724.98
M	151+37.00	0.00	725.30
N	151+47.00	0.00	725.62
S. end of S. appr. slab	151+57.00	0.00	725.96



PLAN

WEST EDGE OF PAVEMENT

Location	Station	Offset	Theoretical Grade Elevations
N. end of S. appr. slab	151+29.12	12.00	724.86
M	151+39.12	12.00	725.18
N	151+49.12	12.00	725.51
S. end of S. appr. slab	151+59.12	12.00	725.84

WEST EDGE OF SHOULDER

Location	Station	Offset	Theoretical Grade Elevations
N. end of S. appr. slab	151+30.17	18.00	724.77
M	151+40.17	18.00	725.09
N	151+50.17	18.00	725.42
S. end of S. appr. slab	151+60.17	18.00	725.76

DESIGNED	SMR
CHECKED	FT
DRAWN	MBM
CHECKED	SMR/FT

US ROUTE 150 OVER HENDERSON CREEK
F.A.S. ROUTE 1190 - SEC. (125BY)BR
KNOX COUNTY
STATION 150+71.00
STRUCTURE NO. 048-0088

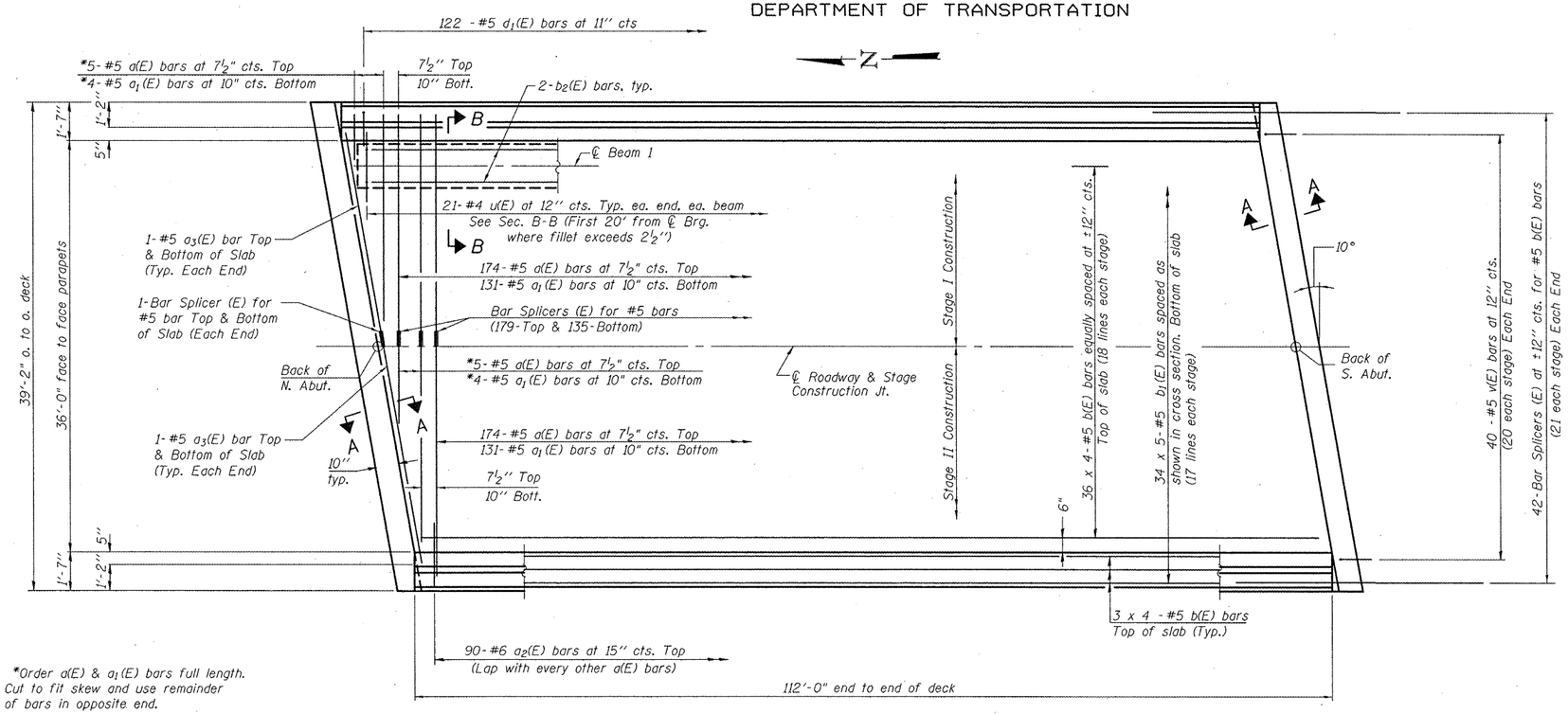
TOP OF SOUTH APPROACH SLAB ELEVATIONS

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAS 1190	(125BY)BR	KNOX	94	49
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT-		

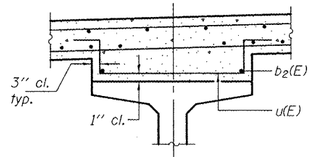
SHEET NO. 7
20 SHEETS

Contract No. 68087

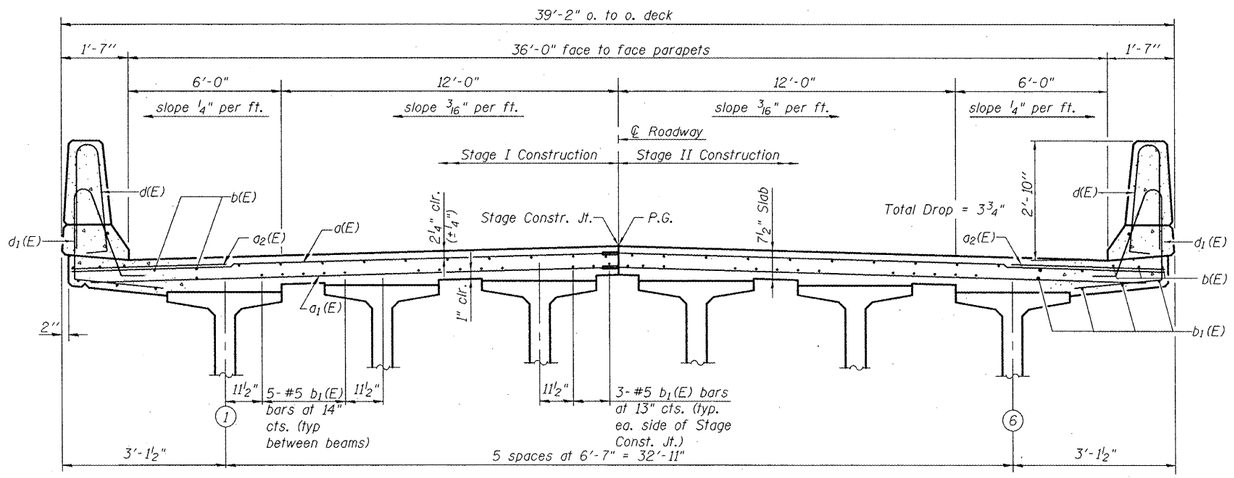


*Order d(E) & a1(E) bars full length. Cut to fit skew and use remainder of bars in opposite end.

PLAN



SECTION B-B



CROSS SECTION

(Looking South)

MIN. BAR LAP

#5 bar = 3'-3''

Notes:
Work sheets 7 thru 9 of 20 together.
See sheet 8 of 20 for superstructure details and Bill of Material.
For Section A-A and diaphragm details see sheet 9 of 20.
See Sheet 8 of 20 for parapet reinforcement
Bars indicated thus 36 x 4- #5 etc. indicates 36 lines of bars with 4 lengths per line.

DESIGNED	SMR
CHECKED	FT
DRAWN	JMI. DEH
CHECKED	SMR/FT

US ROUTE 150 OVER HENDERSON CREEK
F.A.S. ROUTE 1190 - SEC. (125BY)BR
KNOX COUNTY
STATION 150+71.00
STRUCTURE NO. 048-0088

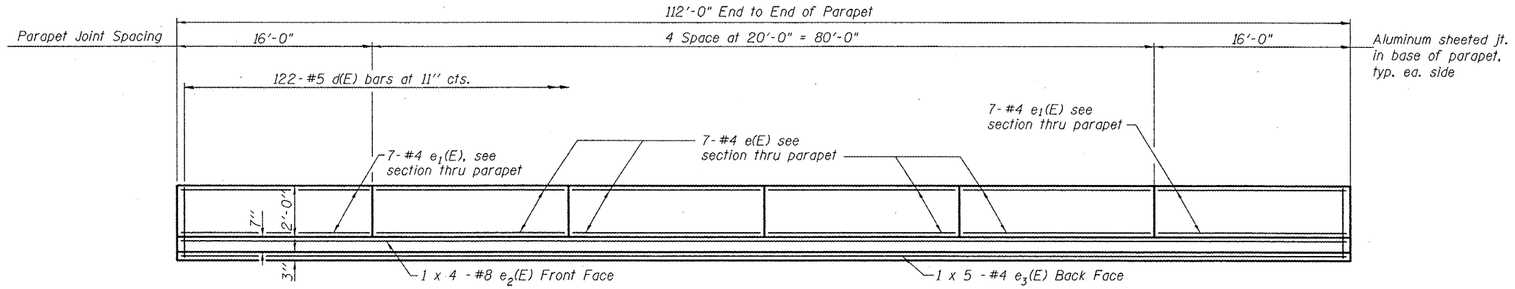
SUPERSTRUCTURE PLAN & CROSS SECTION

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

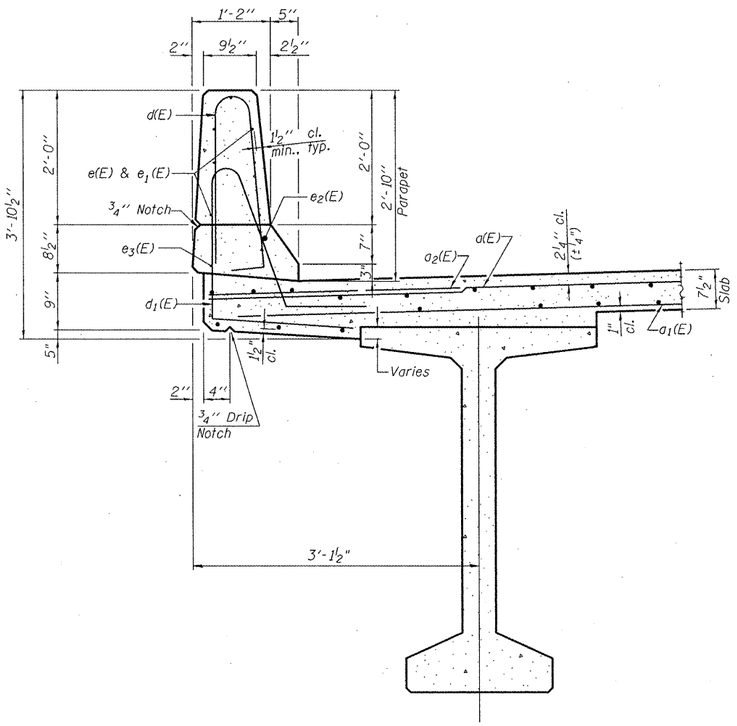
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAS 1190	(125BY)BR	KNOX	24	50
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT-		

SHEET NO. 8
20 SHEETS

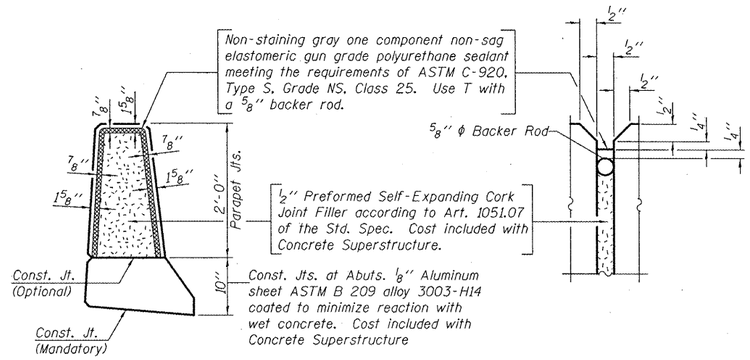
Contract No. 68087



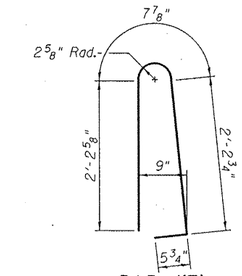
INSIDE ELEVATION OF PARAPET



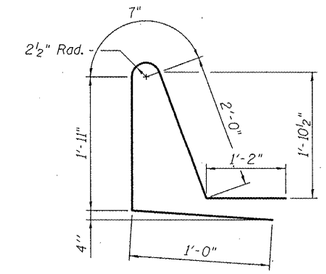
SECTION THRU PARAPET



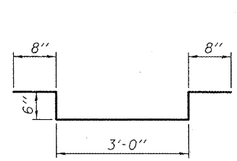
PARAPET JOINT DETAILS



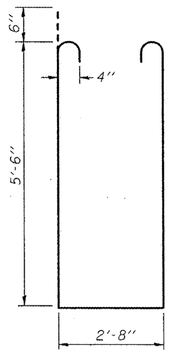
BAR d(E)



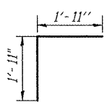
BARS d1(E)



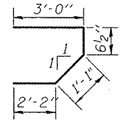
BAR u(E)



BAR s1(E)



BAR v(E)



BAR s(E)

MIN. BAR LAP

(Parapet)
#4 bar = 2'-0"
#8 bar = 5'-2"

SUPERSTRUCTURE BILL OF MATERIAL

Bar	No.	Size	Length	Shape
a(E)	358	#5	19'-2"	
a1(E)	270	#5	18'-4"	
a2(E)	180	#6	6'-6"	
a3(E)	8	#5	18'-7"	
b(E)	168	#5	30'-6"	
b1(E)	170	#5	25'-0"	
b2(E)	24	#4	20'-6"	
d(E)	244	#5	5'-7"	
d1(E)	244	#5	6'-8"	
e(E)	56	#4	19'-9"	
e1(E)	28	#4	15'-9"	
e2(E)	8	#8	31'-10"	
e3(E)	10	#4	24'-0"	
m(E)	24	#6	19'-6"	
m1(E)	24	#6	8'-3"	
m2(E)	12	#6	10'-0"	
m3(E)	8	#6	4'-2"	
m4(E)	8	#6	1'-10"	
s(E)	72	#5	6'-10"	
s1(E)	48	#4	14-8"	
u(E)	252	#4	5'-4"	
v(E)	80	#5	3'-10"	
Reinforcement Bars, Epoxy Coated		Lbs.	32780	
Concrete Superstructure		Cu. Yds.	198.4	

Bars indicated thus 1x4 -#8, etc., indicates 1 line of bars with 4 lengths per line.

DESIGNED	SMR
CHECKED	FT
DRAWN	JMI, DEH
CHECKED	SMR/FT

US ROUTE 150 OVER HENDERSON CREEK
F.A.S. ROUTE 1190 - SEC. (125BY)BR
KNOX COUNTY
STATION 150+71.00
STRUCTURE NO. 048-0088

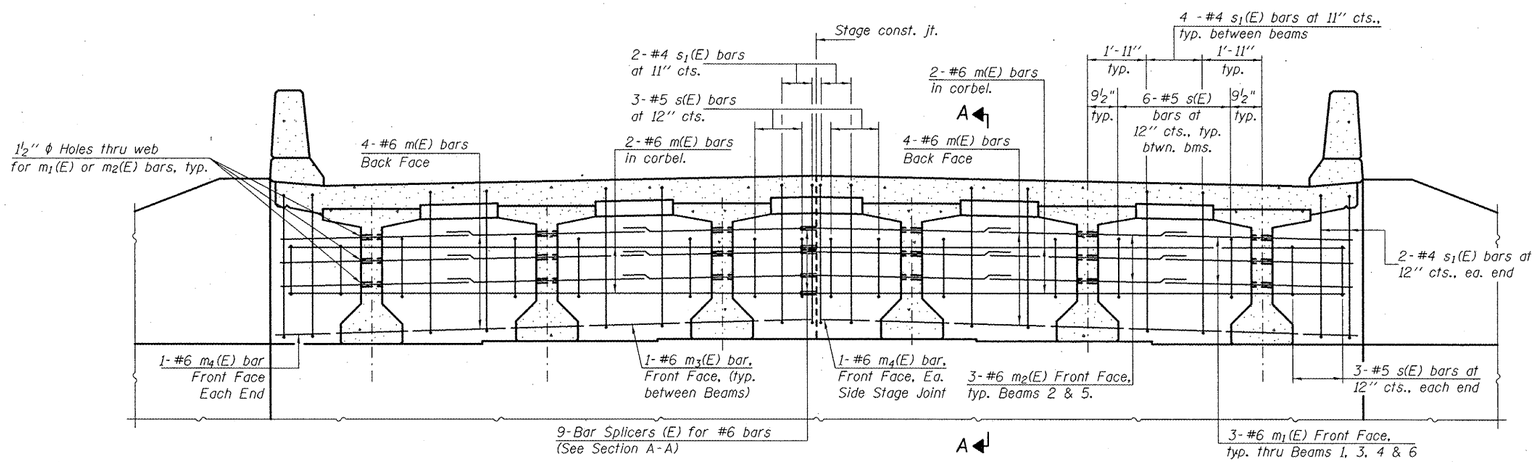
SUPERSTRUCTURE DETAILS

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

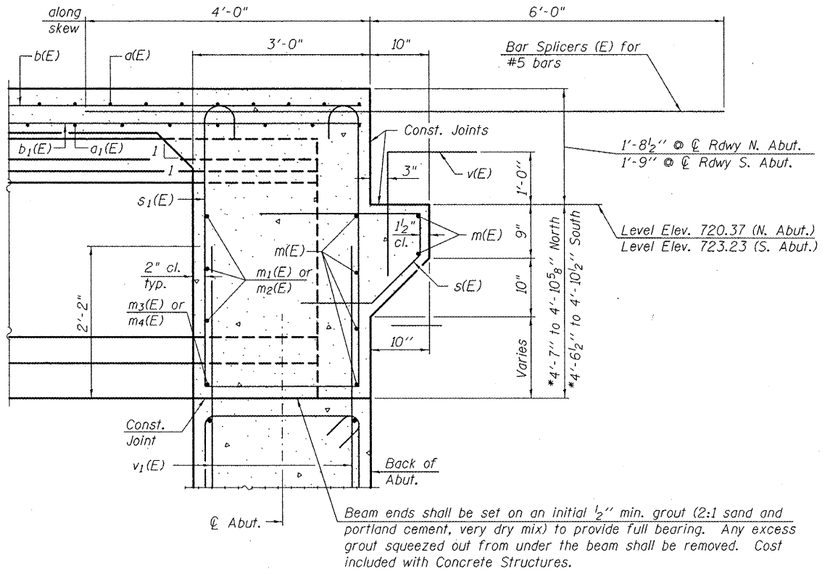
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAS 1190	(125BY)BR	KNOX	94	51
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT-		

SHEET NO. 9
20 SHEETS

Contract No. 68087



DIAPHRAGM ELEVATION AT ABUTMENTS



SECTION A-A

Dimensions at right angles to abutment, except as shown.
*Dimensions are given at the back of abutments.

MIN. BAR LAP

#6 bar = 3'-4"

Notes:
Work Sheets 7 thru 9 of 20 together.
Reinforcement bars in diaphragm are billed with superstructure on sheet 8 of 20.
Concrete in diaphragm is included with Concrete Superstructure on sheet 8 of 20.
For details of bars s(E), and s_1(E) see sheet 8 of 20.
The s(E) and s_1(E) bars shall be placed parallel to the beams. Spacing for these bars shall be at right angles to the beams.
See sheet 13 of 20 for holes thru web for m_1(E) & m_2(E) bars.
For bar splicer (E) details, see sheet 18 of 20.

DESIGNED	SMR
CHECKED	FT
DRAWN	JMI, DEH
CHECKED	SMR/FT

US ROUTE 150 OVER HENDERSON CREEK
F.A.S. ROUTE 1190 - SEC. (125BY)BR
KNOX COUNTY
STATION 150+71.00
STRUCTURE NO. 048-0088

DIAPHRAGM DETAILS

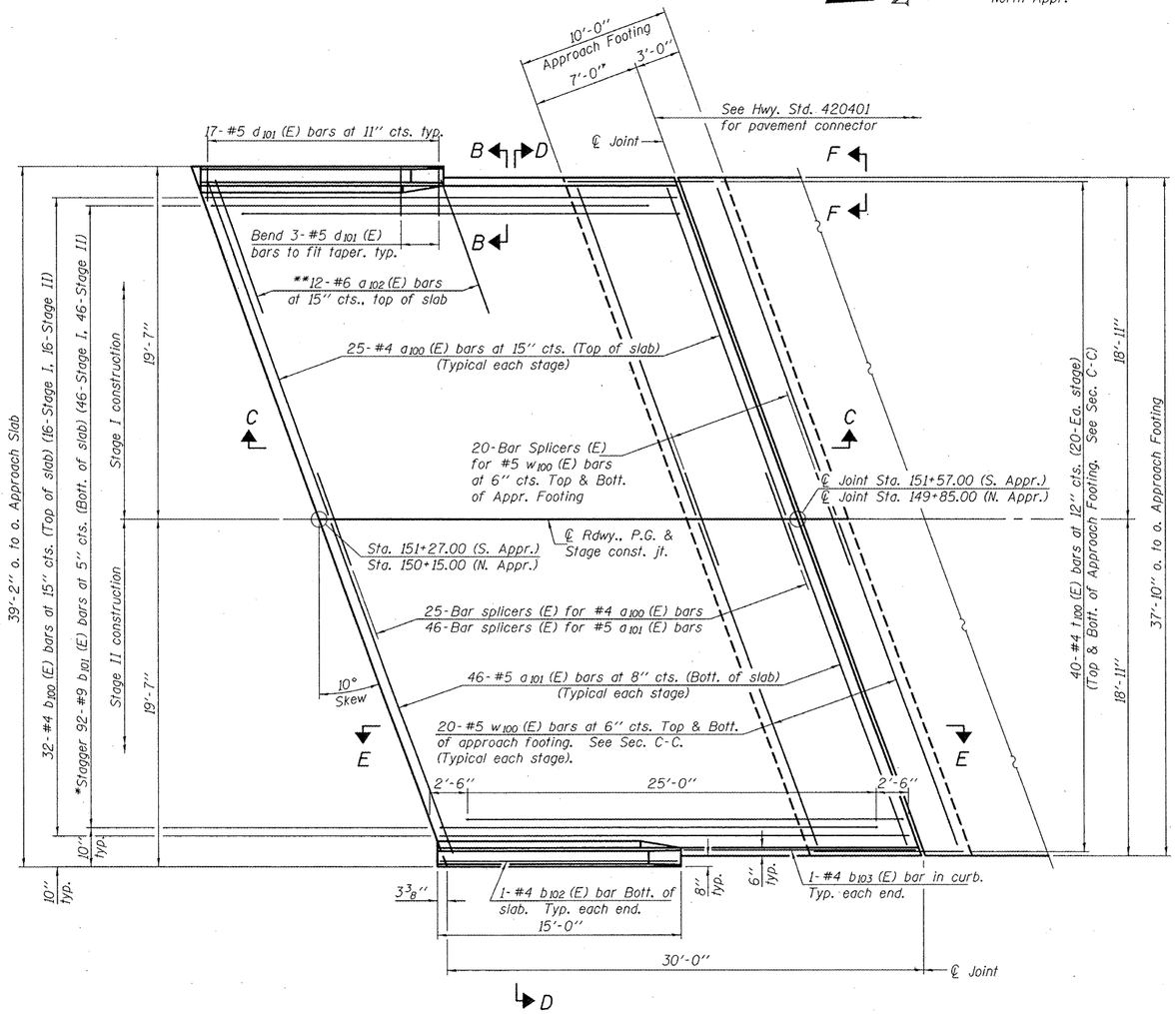
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAS 1190	(125BY)BR	KNOX	94	52
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT-		

SHEET NO. 10
20 SHEETS

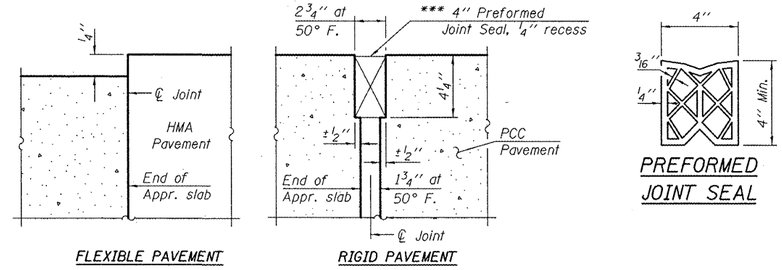
Contract No. 68087

Notes:
See sheet 11 of 20 for Sections C-C & D-D and View E-E.
a_{100} (E), a_{101} (E), & w_{100} (E) bar spacings measured along ℄ Rdwy.



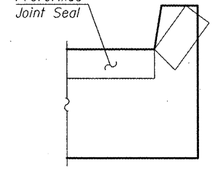
PLAN
(South approach shown - North approach similar by 180° rotation).

*** Cost included with Concrete Superstructure.



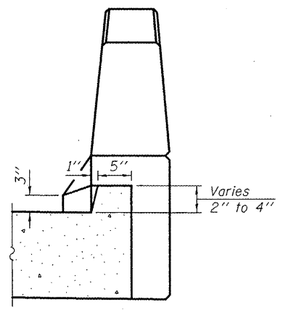
FLEXIBLE PAVEMENT
RIGID PAVEMENT

DETAIL A



VIEW F-F

Angle Preformed Joint Seal at 45° at curbs when req'd for drainage.



VIEW B-B

DESIGNED	SMR
CHECKED	FT
DRAWN	MBM
CHECKED	SMR/FT

* Tilt #9 b_{101} (E) bars as required to maintain clearance.
** Space between a_{102} (E) bars, typ. each parapet.

(Sheet 1 of 2)

US ROUTE 150 OVER HENDERSON CREEK
F.A.S. ROUTE 1190 - SEC. (125BY)BR
KNOX COUNTY
STATION 150+71.00
STRUCTURE NO. 048-0088

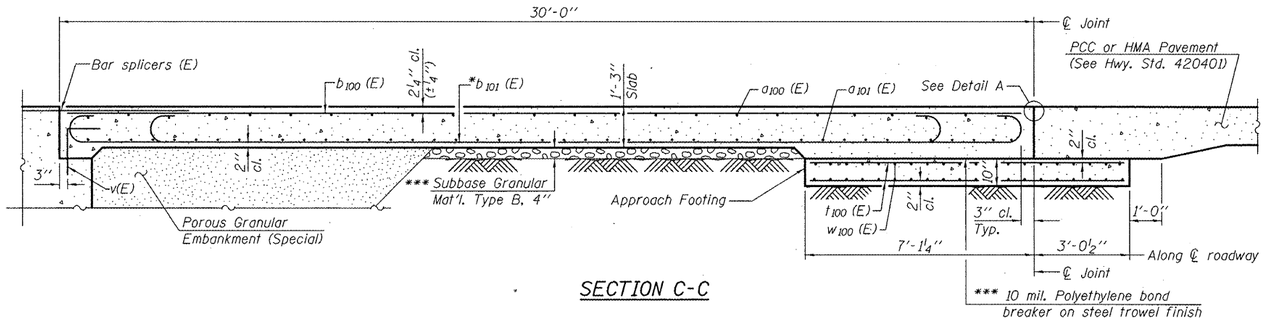
BRIDGE APPROACH SLAB DETAILS

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

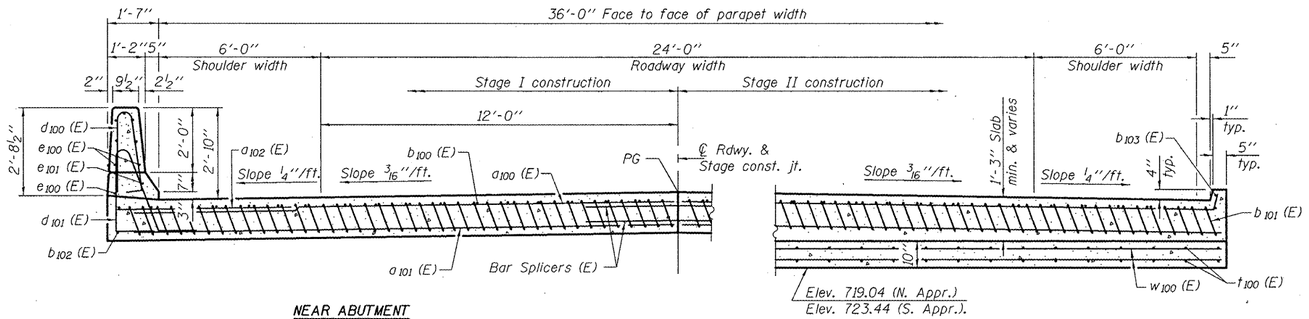
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAS 1190	(125BY)BR	KNOX	94	53
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT-		

SHEET NO. 11
20 SHEETS

Contract No. 68087



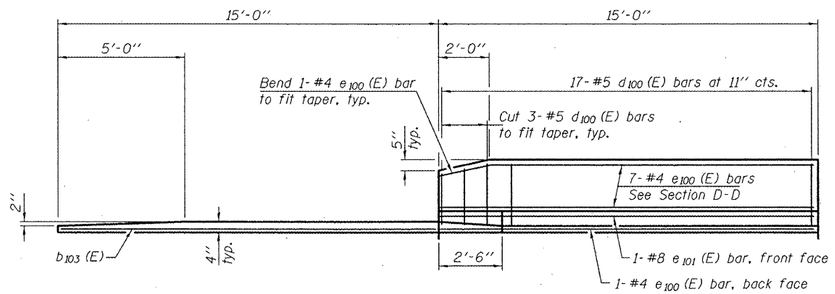
SECTION C-C



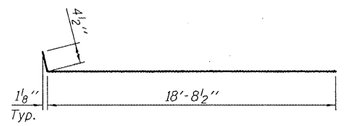
NEAR ABUTMENT

SECTION D-D
(See Plan for dimensions not shown)

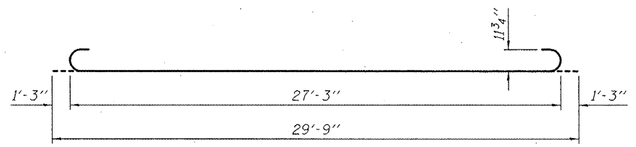
AT APPROACH FOOTING



VIEW E-E

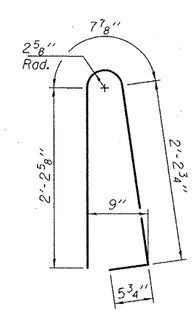


BAR a100 (E)

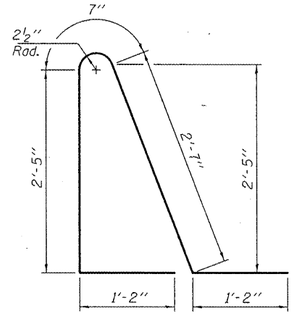


BAR b101 (E)

Notes:
See sheet 10 of 20 for Detail A and View B-B.
Approach slab and parapet concrete shall be paid for as Concrete Superstructure.
Approach footing concrete shall be paid for as Concrete Structures.
Reinforcement shall be paid for as Reinforcement Bars, Epoxy Coated.
For v(E) bar details, see sheets 8 and 9 of 20.
The approach footing maximum applied service bearing pressure (Qmax) = 2.0 ksf.
For bar splicer details, see sheet 18 of 20.
Cost of excavation for approach footing included with Concrete Structures.
For Porous Granular Embankment (Special) and drainage treatment details, see sheet 1 of 20.
For additional parapet details, see sheet 8 of 20.



BAR d(E)



BAR d2(E)

* Tilt #9 b101 (E) bars as required to maintain clearance.
*** Cost included with Concrete Superstructure.

TWO APPROACHES
BILL OF MATERIAL

Bar	No.	Size	Length	Shape
a100 (E)	100	#4	19'-1"	
a101 (E)	184	#5	18'-11"	
a102 (E)	48	#6	6'-6"	
b100 (E)	64	#4	29'-8"	
b101 (E)	184	#9	29'-9"	
b102 (E)	4	#4	14'-8"	
b103 (E)	4	#4	14'-6"	
d100 (E)	68	#5	5'-7"	
d101 (E)	68	#5	7'-11"	
e100 (E)	32	#4	14'-8"	
e101 (E)	4	#8	14'-8"	
t100 (E)	160	#4	9'-9"	
w100 (E)	160	#5	18'-10"	
Concrete Superstructure			Cu. Yd.	119.9
Concrete Structures			Cu. Yd.	23.8
Reinforcement Bars, Epoxy Coated			Pound	30940

DESIGNED	SMR
CHECKED	FT
DRAWN	MBM
CHECKED	SMR/FT

(Sheet 2 of 2)

US ROUTE 150 OVER HENDERSON CREEK
F.A.S. ROUTE 1190 - SEC. (125BY)BR
KNOX COUNTY
STATION 150+71.00
STRUCTURE NO. 048-0088

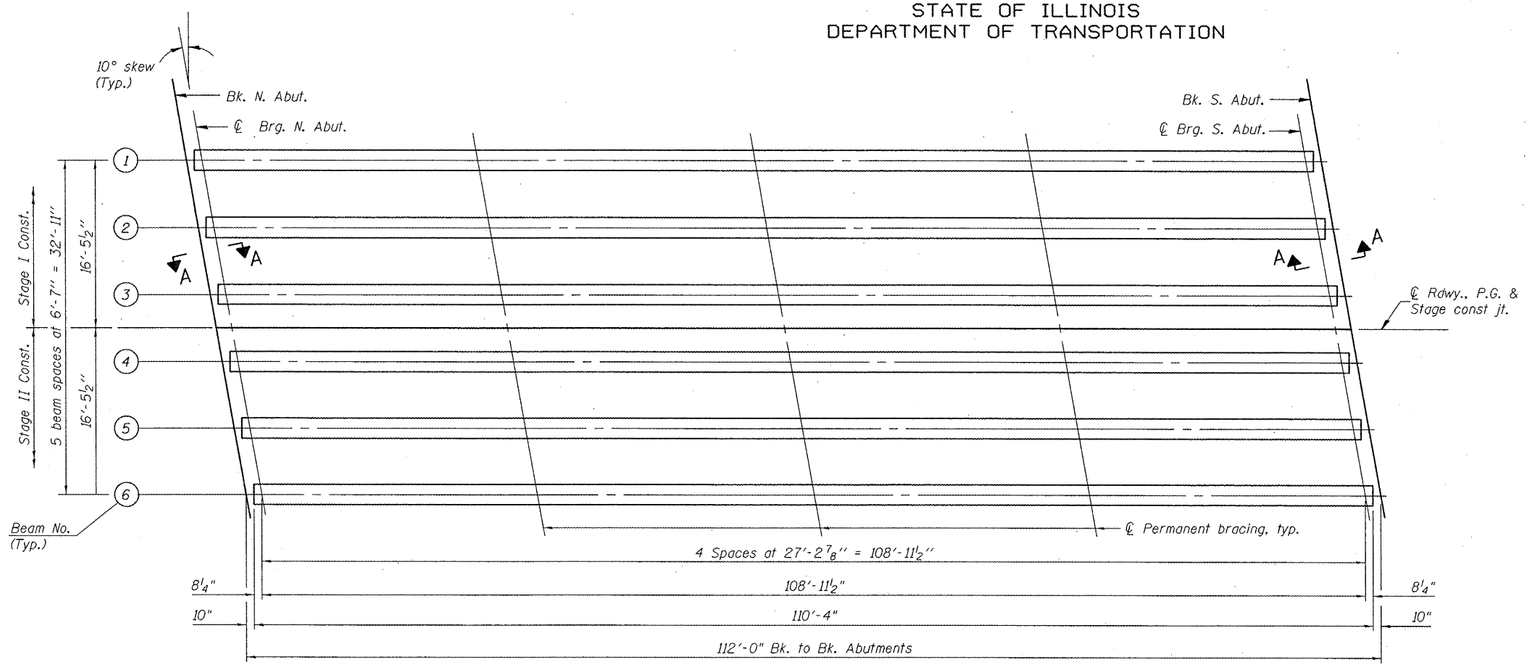
BRIDGE APPROACH SLAB DETAILS

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAS 1190	(125BY)BR	KNOX	94	54
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT-		

SHEET NO. 12
20 SHEETS

Contract No. 68087



FRAMING PLAN

Z

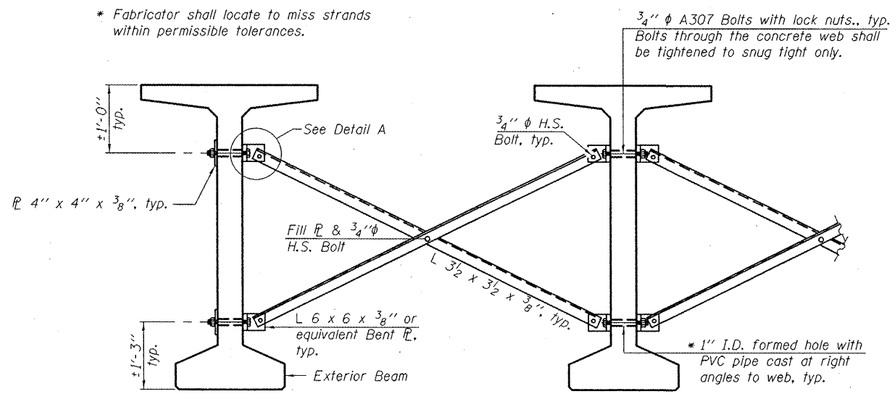
INTERIOR BEAM MOMENT TABLE		
		0.5 Span
I	(in^4)	392,638
I'	(in^4)	725,731
S_b	(in^3)	12,224
S_b'	(in^3)	15,943
S_t	(in^3)	12,715
S_t'	(in^3)	41,518
$\mathcal{Q}$	(k/')	1.464
$M\mathcal{Q}$	('k)	2,173
$s\mathcal{Q}$	(k/')	0.479
$M_s\mathcal{Q}$	('k)	711
M_L	('k)	1,009
M (Imp)	('k)	212

INTERIOR BEAM REACTION TABLE		
		Abut.
R $\mathcal{Q}$	(k)	79.8
Rs $\mathcal{Q}$	(k)	26.1
R L	(k)	39.4
Imp.	(k)	8.3
R (Total)	(k)	153.6

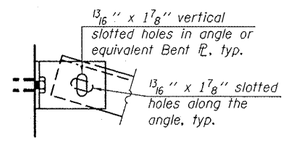
I: Non-composite moment of inertia of beam section ($in.^4$).
I': Composite moment of inertia of beam section ($in.^4$).
S_b: Non-composite section modulus for the bottom fiber of the prestressed beam ($in.^3$).
S_b': Composite section modulus for the bottom fiber of the prestressed beam ($in.^3$).
S_t: Non-composite section modulus for the top fiber of the prestressed beam ($in.^3$).
S_t': Composite section modulus for the top fiber of the prestressed beam ($in.^3$).
$\mathcal{Q}$: Un-factored non-composite dead load (kips/ft.).
$M\mathcal{Q}$: Un-factored moment due to non-composite dead load conservatively taken at 0.5 of the span (kip-ft.).
$s\mathcal{Q}$: Un-factored long-term composite (superimposed) dead load (kips/ft.).
$M_s\mathcal{Q}$: Un-factored moment due to long-term composite (superimposed) dead load (kip-ft.).
M_L: Un-factored live load moment on the composite section (kip-ft.).
M_{Imp}: Un-factored moment due to impact on the composite section (kip-ft.).

DESIGNED	SMR
CHECKED	FT
DRAWN	JMI, DEH
CHECKED	SMR/FT

Notes:
See Sheet 9 of 20 for Section A-A.
All material for bracing shall be hot dip galvanized according to AASHTO M111 unless otherwise noted.
Two hardened washers are required for each set of oversized holes.
All holes shall be $^{15}/_{16}$"ϕ unless otherwise noted.
$^{5}/_{16}$" x 3" x 3" plate washers are required over all slotted holes.
All bolts shall be galvanized according to AASHTO M232.
Bracing shall be installed as beams are erected and tightened as soon as possible during erection.
Permanent bracing shall not be paid for separately, but shall be included in the cost of Furnishing and Erecting Precast Prestressed Concrete Bulb T-Beams.



PERMANENT BRACING DETAILS FOR BULB-T BEAMS



DETAIL A

US ROUTE 150 OVER HENDERSON CREEK
F.A.S. ROUTE 1190 - SEC. (125BY)BR
KNOX COUNTY
STATION 150+71.00
STRUCTURE NO. 048-0088

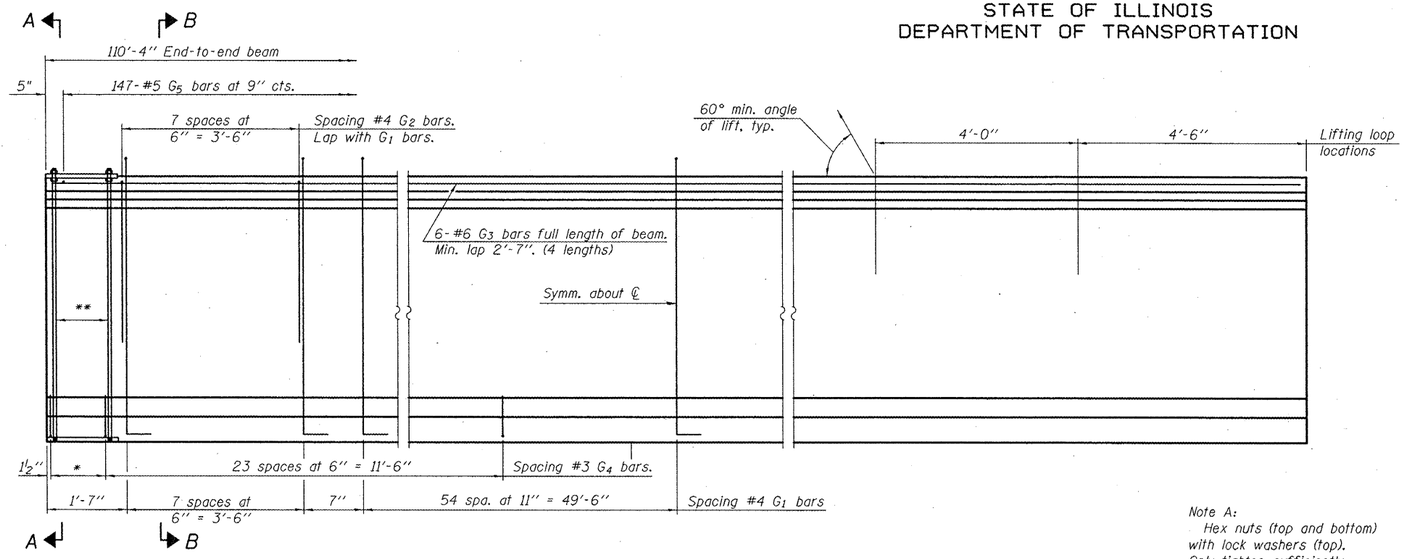
FRAMING PLAN

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAS 1190	(125BY)BR	KNOX	94	55
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT-		

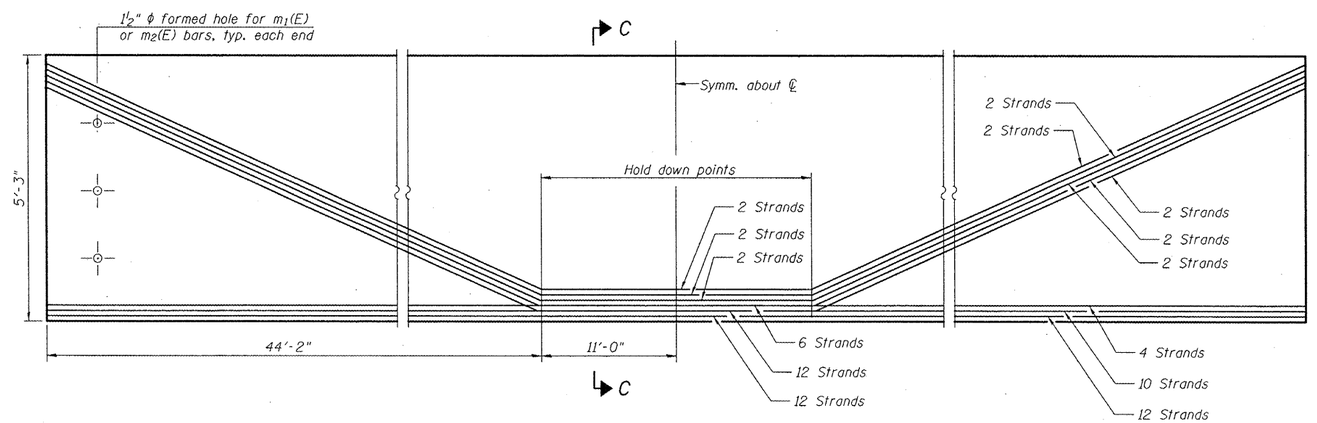
SHEET NO. 13
20 SHEETS

Contract No. 68087

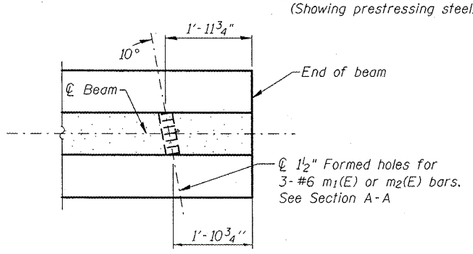


* 4 spaces at 3¼" = 1'-1".
** 5-¾" ϕ threaded dowel rods at 3¼" cts., each face.

ELEVATION OF BEAM
(Showing reinforcement & dimensions)



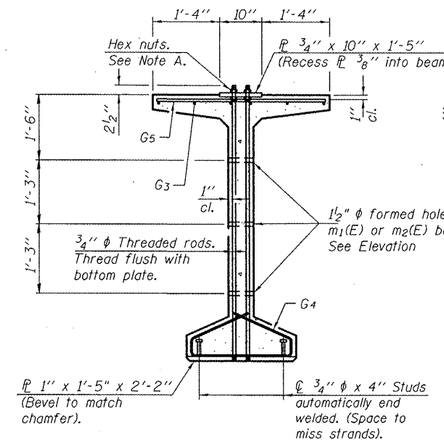
ELEVATION OF BEAM
(Showing prestressing steel)



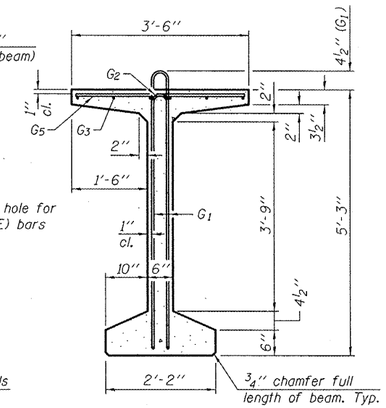
END OF BEAM PLAN

DESIGNED	SMR
CHECKED	FT
DRAWN	JMI, DEH
CHECKED	SMR/FT

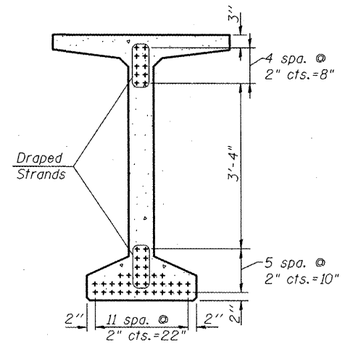
Note A:
Hex nuts (top and bottom) with lock washers (top). Only tighten sufficiently to compress lock washers.



SECTION A-A



SECTION B-B



SECTION C-C

BAR LIST
ONE BEAM ONLY

Bar	No.	Size	Length	Shape
G1	125	#4	11'-11"	
G2	16	#4	10'-2"	
G3	24	#6	29'-6"	
G4	56	#3	4'-11"	
G5	147	#5	3'-4"	

Notes:
See sheet 14 of 20 for additional details and Bill of Material.
Required release strength, f'ci, shall be 5,000 psi.

US ROUTE 150 OVER HENDERSON CREEK
F.A.S. ROUTE 1190 - SEC. (125BY)BR
KNOX COUNTY
STATION 150+71.00
STRUCTURE NO. 048-0088

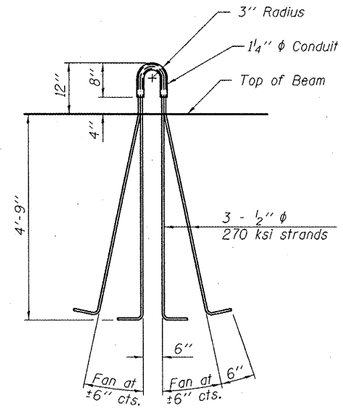
BEAM ELEVATIONS AND DETAILS

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAS 1190	(125BY)BR	KNOX	94	56
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT-		

SHEET NO. 14
20 SHEETS

Contract No. 68087



LIFTING LOOP DETAIL

NOTES

Inserts for ¾" ϕ threaded dowel rods, when specified, are to be two strut, ferrule type for interior beams and single ferrule, flared loop type for exterior beams.

Prestressing steel shall be uncoated high strength, low relaxation 7-wire strand, Grade 270. The nominal diameter shall be ½" and the nominal cross-sectional area shall be 0.153 sq. in.

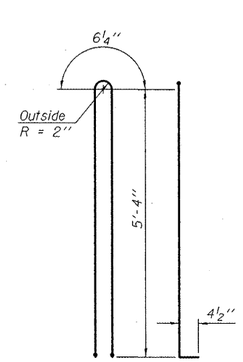
Reinforcement bars shall conform to ASTM A 706, Grade 60. (See Special Provisions).

A minimum 2½" ϕ lifting pin shall be used to engage the lifting loops during handling.

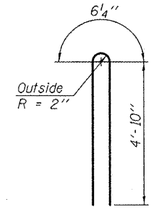
The top and bottom plates shall be AASHTO M270 Grade 50.

The bottom plates and studs shall be galvanized according to AASHTO M111. Top plates and threaded rods need not be galvanized.

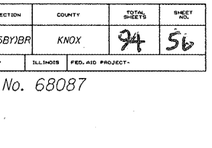
Threaded rods shall be ASTM F 1554 Grade 55.



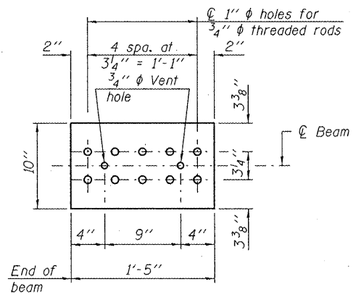
BAR G1



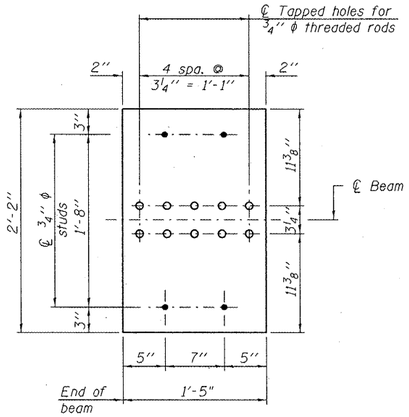
BAR G2



BAR G4



TOP PLATE



BOTTOM PLATE

See bearing details for pintle hole locations when required.

BILL OF MATERIAL

Item	Unit	Total
Furnishing and Erecting Precast Prestressed Concrete Bulb T-Beams, 63"	Ft.	662

DESIGNED	SMR
CHECKED	FT
DRAWN	BWP, KBF
CHECKED	SMR/FT

US ROUTE 150 OVER HENDERSON CREEK
F.A.S. ROUTE 1190 - SEC. (125BY)BR
KNOX COUNTY
STATION 150+71.00
STRUCTURE NO. 048-0088

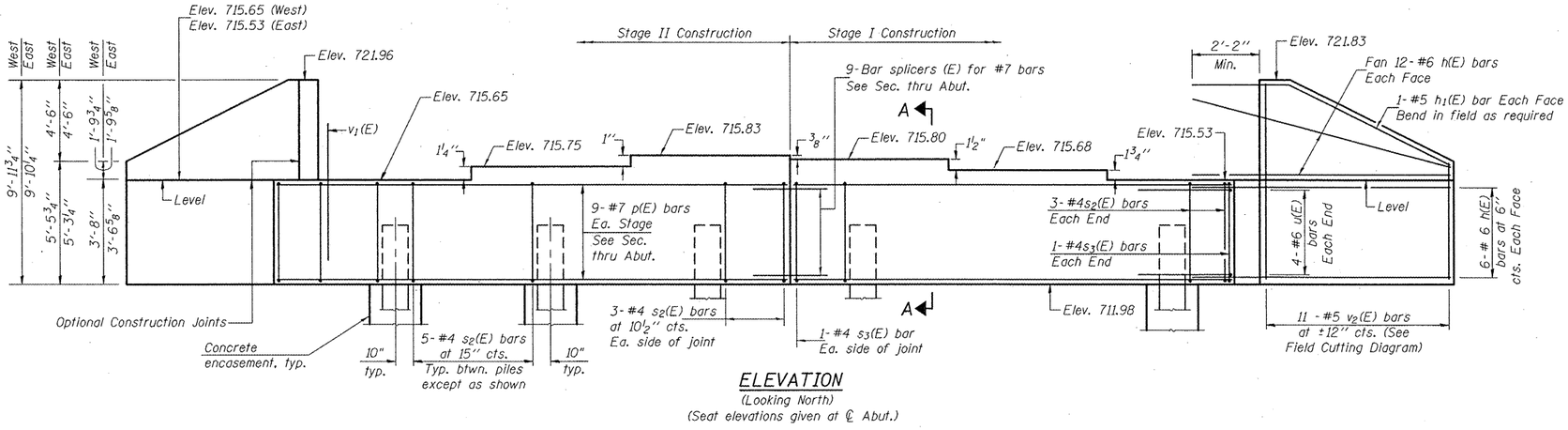
BEAM DETAILS

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

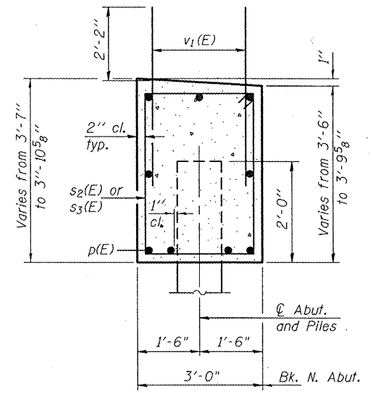
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAS 1190	(125BY)BR	KNOX	94	57
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT-		

SHEET NO. 15
20 SHEETS

Contract No. 68087



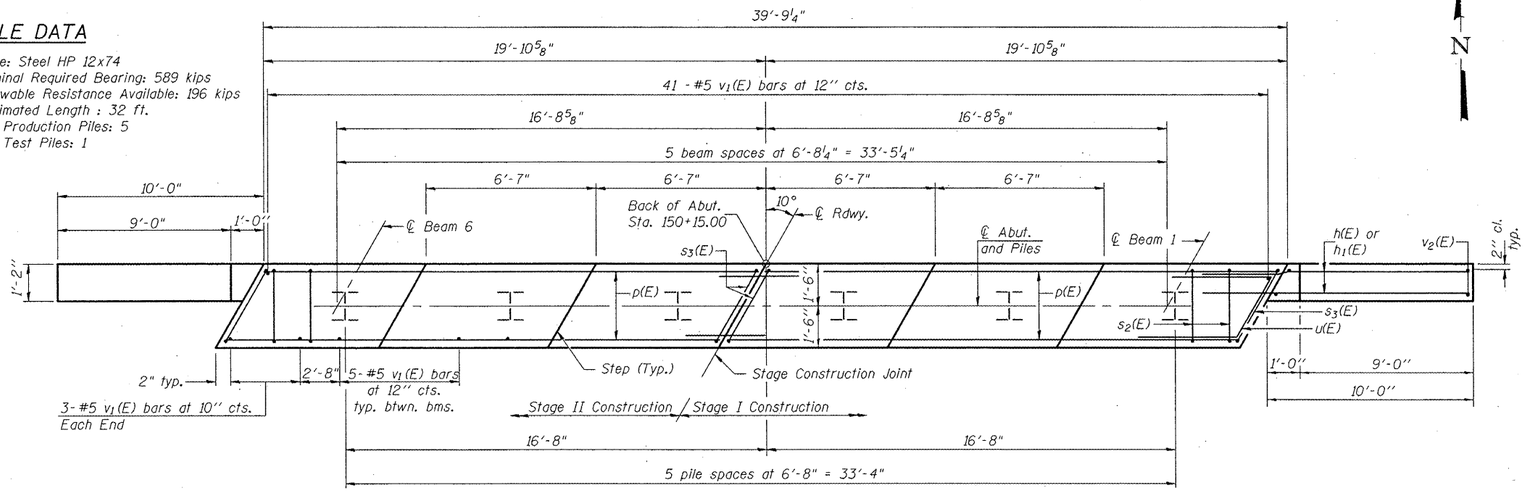
ELEVATION
(Looking North)
(Seat elevations given at ℄ Abut.)



SECTION A-A

PILE DATA

Type: Steel HP 12x74
Nominal Required Bearing: 589 kips
Allowable Resistance Available: 196 kips
Estimated Length : 32 ft.
No. Production Piles: 5
No. Test Piles: 1



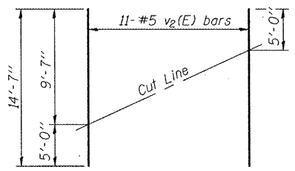
PLAN

N

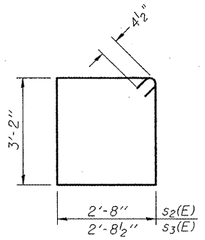
BILL OF MATERIAL

Bar	No.	Size	Length	Shape
h(E)	72	#6	12'-9"	——
h_1(E)	4	#5	13'-0"	——
p(E)	18	#7	19'-6"	——
s_2(E)	32	#4	12'-5"	
s_3(E)	4	#4	12'-6"	
u(E)	8	#6	8'-0"	
v_1(E)	72	#5	4'-4"	——
v_2(E)	22	#5	14'-7"	——
Concrete Structures		Cu. Yd.	22.9	
Reinforcement Bars, Epoxy Coated		Pound	3210	
Structure Excavation		Cu. Yd.	106	
Furnishing Steel Piles, HP12x74		Foot	160	
Driving Piles		Foot	160	
Test Pile, Steel HP12x74		Each	1	
Concrete Encasement		Cu. Yd.	2.1	

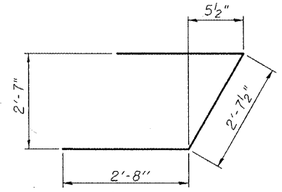
Notes:
Pour steps monolithically with cap.
For details of piles and concrete encasement, see sheet 17 of 20.
For details of bar splicers, see sheet 18 of 20.



FIELD CUTTING DIAGRAM
Order v_2(E) full length. Cut as shown and use remainder of bars in opposite face.



BARS s_2(E) & s_3(E)



BAR u(E)

DESIGNED	SMR
CHECKED	FT
DRAWN	JMI, KBF
CHECKED	SMR/FT

US ROUTE 150 OVER HENDERSON CREEK
F.A.S. ROUTE 1190 - SEC. (125BY)BR
KNOX COUNTY
STATION 150+71.00
STRUCTURE NO. 048-0088

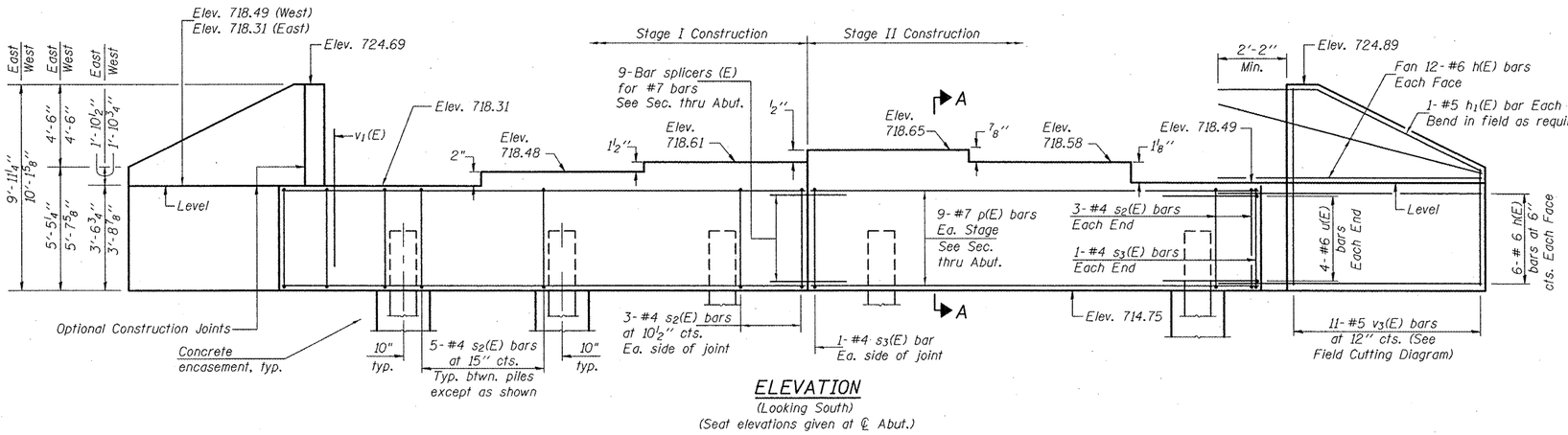
NORTH ABUTMENT

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

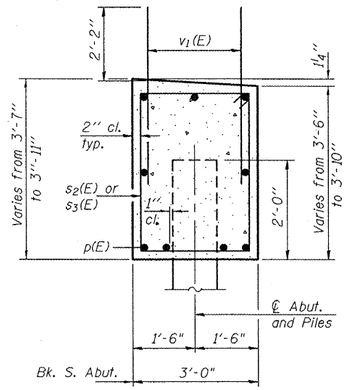
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAS 1190	(125BY)BR	KNOX	94	58
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT-		

SHEET NO. 16
20 SHEETS

Contract No. 68087



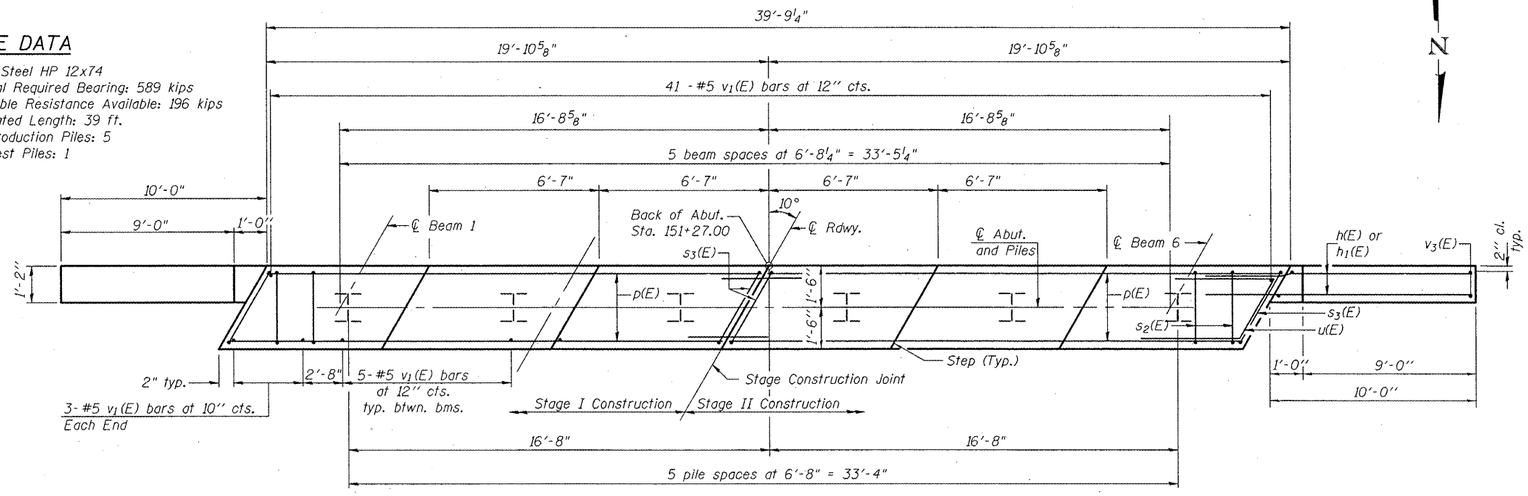
ELEVATION
(Looking South)
(Seat elevations given at ℄ Abut.)



SECTION A-A

PILE DATA

Type: Steel HP 12x74
Nominal Required Bearing: 589 kips
Allowable Resistance Available: 196 kips
Estimated Length: 39 ft.
No. Production Piles: 5
No. Test Piles: 1



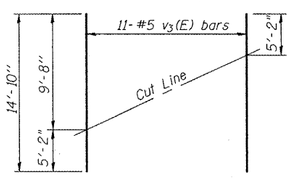
PLAN

N

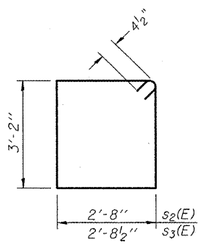
BILL OF MATERIAL

Bar	No.	Size	Length	Shape
h(E)	72	#6	12'-9"	——
h1(E)	4	#5	13'-0"	——
p(E)	18	#7	19'-6"	——
s2(E)	32	#4	12'-5"	⌐
s3(E)	4	#4	12'-6"	⌐
u(E)	8	#6	8'-0"	⌐
v1(E)	72	#5	4'-4"	——
v3(E)	22	#5	14'-10"	——
Concrete Structures		Cu. Yd.	23.1	
Reinforcement Bars, Epoxy Coated		Pound	3210	
Structure Excavation		Cu. Yd.	106	
Furnishing Steel Piles, HP12x74		Foot	195	
Driving Piles		Foot	195	
Test Pile, Steel HP12x74		Each	1	
Concrete Encasement		Cu. Yd.	2.1	

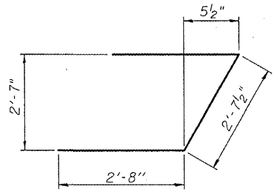
Notes:
Pour steps monolithically with cap.
For details of piles and concrete encasement, see sheet 17 of 20.
For details of bar splicers, see sheet 18 of 20.



FIELD CUTTING DIAGRAM
Order v3(E) full length. Cut as shown and use remainder of bars in opposite face.



BARS s2(E) & s3(E)



BAR u(E)

DESIGNED	SMR
CHECKED	FT
DRAWN	BWP, ALN
CHECKED	SMR/FT

US ROUTE 150 OVER HENDERSON CREEK
F.A.S. ROUTE 1190 - SEC. (125BY)BR
KNOX COUNTY
STATION 150+71.00
STRUCTURE NO. 048-0088

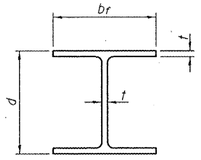
SOUTH ABUTMENT

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAS 1190	(125BY)BR	KNOX	94	59
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT-		

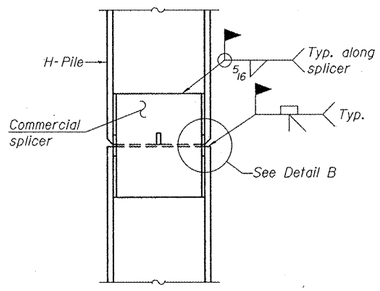
SHEET NO. 17
20 SHEETS

Contract No. 68087

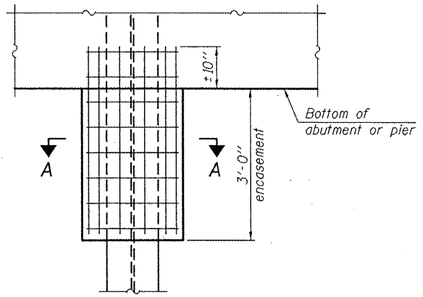


STEEL PILE TABLE

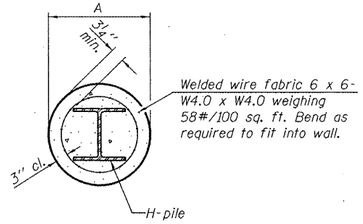
Designation	Depth d	Flange width b_f	Web and Flange thickness t	Encasement diameter A
HP 14x117	14 1/4"	14 7/8"	13/16"	30"
x102	14"	14 3/4"	11/16"	30"
x89	13 7/8"	14 3/4"	5/8"	30"
x73	13 5/8"	14 5/8"	1/2"	30"
HP 12x84	12 1/4"	12 1/4"	11/16"	24"
x74	12 1/8"	12 1/4"	5/8"	24"
x63	12"	12 1/8"	1/2"	24"
x53	11 3/4"	12"	7/16"	24"
HP 10x57	10"	10 1/4"	9/16"	24"
x42	9 3/4"	10 1/8"	7/16"	24"
HP 8x36	8"	8 1/8"	7/16"	18"



ELEVATION



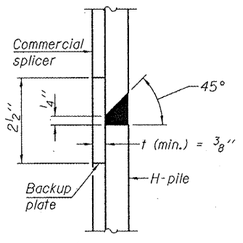
ELEVATION



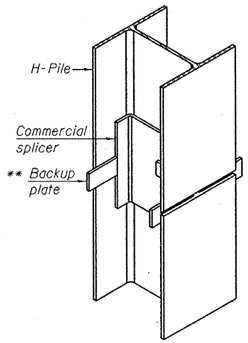
Note:
Forms for encasement may be omitted when soil conditions permit.

SECTION A-A

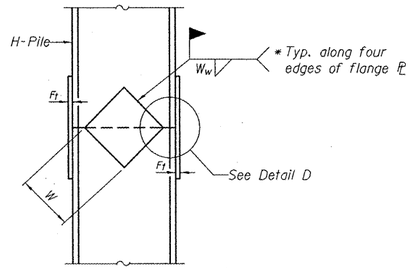
PILE ENCASEMENT



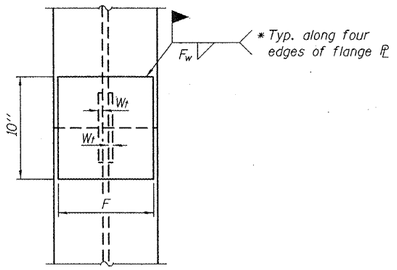
DETAIL "B"



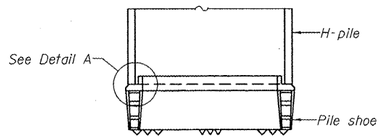
ISOMETRIC VIEW



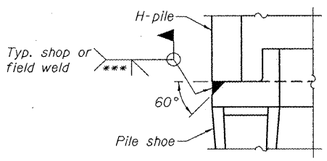
ELEVATION



END VIEW

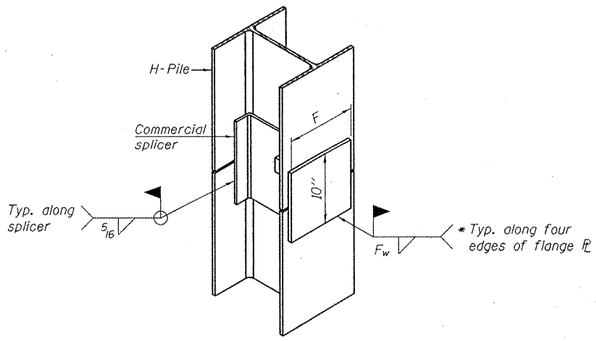


ELEVATION



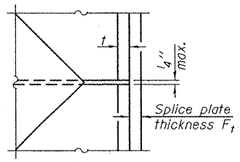
DETAIL A

H-PILE SHOE ATTACHMENT



ISOMETRIC VIEW

WELDED COMMERCIAL SPLICE



DETAIL D

Designation	F	F_t	F_w	W	W_1	W_w
HP 14x117	12 1/2"	1"	7/8"	7 3/4"	5/8"	1/2"
x102	12 1/2"	7/8"	3/4"	7 3/4"	5/8"	1/2"
x89	12 1/2"	3/4"	11/16"	7 3/4"	5/8"	1/2"
x73	12 1/2"	5/8"	9/16"	7 3/4"	5/8"	1/2"
HP 12x84	10"	7/8"	11/16"	6 1/2"	5/8"	1/2"
x74	10"	7/8"	11/16"	6 1/2"	5/8"	1/2"
x63	10"	5/8"	1/2"	6 1/2"	1/2"	3/8"
x53	10"	5/8"	1/2"	6 1/2"	1/2"	3/8"
HP 10x57	8"	3/4"	9/16"	5 1/4"	1/2"	3/8"
x42	8"	5/8"	9/16"	5 1/4"	1/2"	3/8"
HP 8x36	7"	5/8"	7/16"	4 1/4"	1/2"	3/8"

WELDED PLATE FIELD SPLICE

DESIGNED	SMR
CHECKED	FT
DRAWN	MBM
CHECKED	SMR/FT

F-HP 7-1-10

WELDED COMMERCIAL SPLICE ALTERNATE

* Interrupt welds 1/4" from end of web and/or each flange.
** Remove portions of backup plates that extend outside the flanges.
*** Weld size per pile shoe manufacturer (5/16" min.).

Note:
The steel H-piles shall be according to AASHTO M270 Grade 50.

US ROUTE 150 OVER HENDERSON CREEK
F.A.S. ROUTE 1190 - SEC. (125BY)BR
KNOX COUNTY
STATION 150+71.00
STRUCTURE NO. 048-0088

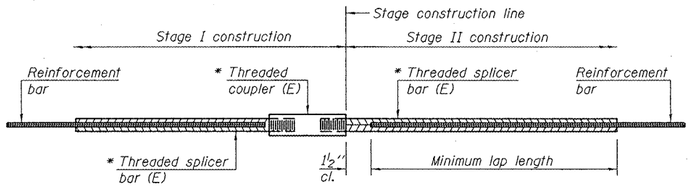
HP PILE DETAILS

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAS 1190	(125BY)BR	KNOX	94	60
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT=		

SHEET NO. 18
20 SHEETS

Contract No. 68087

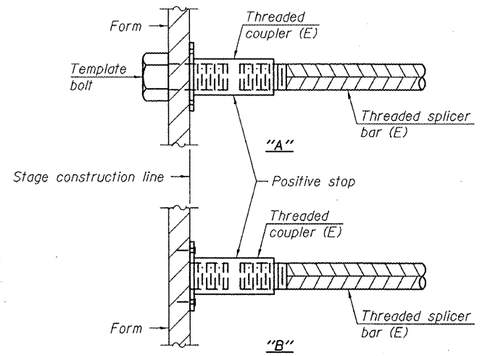


STANDARD BAR SPLICER ASSEMBLY

Minimum Lap Lengths					
Bar size to be spliced	Table 1	Table 2	Table 3	Table 4	Table 5
3, 4	1'-5"	1'-11"	2'-1"	2'-4"	2'-3"
5	1'-9"	2'-5"	2'-7"	2'-11"	2'-10"
6	2'-1"	2'-11"	3'-1"	3'-6"	3'-4"
7	2'-9"	3'-10"	4'-2"	4'-8"	4'-6"
8	3'-8"	5'-1"	5'-5"	6'-2"	5'-10"
9	4'-7"	6'-5"	6'-10"	7'-9"	7'-5"

Table 1: Black bar, 0.8 Class C
Table 2: Black bar, Top bar lap, 0.8 Class C
Table 3: Epoxy bar, 0.8 Class C
Table 4: Epoxy bar, Top bar lap, 0.8 Class C
Table 5: Epoxy bar, Top bar lap, Class B
Threaded splicer bar length = min. lap length + 1½" + thread length
Epoxy not required on Bar Splicer Assembly components used in * conjunction with black bars.

Location	Bar size	No. assemblies required	Table for minimum lap length
Deck	#5	318	3
Diaphragms	#6	18	4
Abutments	#7	18	3
Approach (super.)	#4	50	4
Approach (super)	#5	92	3
Approach (sub)	#5	80	3

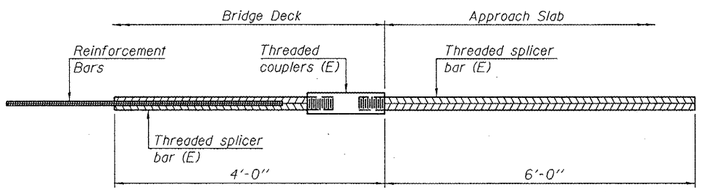


INSTALLATION AND SETTING METHODS

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

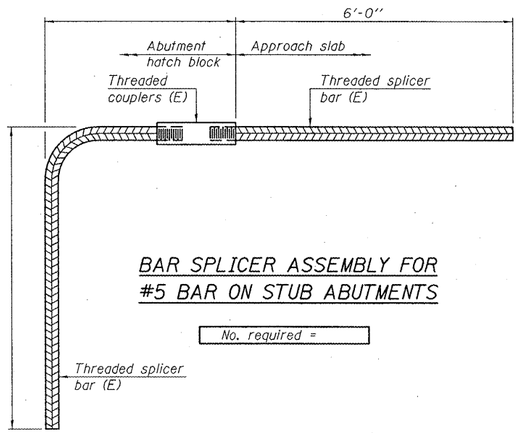
STANDARD MECHANICAL SPLICER

Location	Bar size	No. assemblies required



BAR SPLICER ASSEMBLY FOR #5 BAR ON INTEGRAL OR SEMI-INTEGRAL ABUTMENTS

No. required = 84



BAR SPLICER ASSEMBLY FOR #5 BAR ON STUB ABUTMENTS

No. required =

NOTES

Splicer bars shall be deformed with threaded ends and have a minimum 60 ksi yield strength.
All reinforcement shall be lapped and tied to the splicer bars.
Bar splicer assemblies shall be epoxy coated according to the requirements for reinforcement bars. See Section 508 of the Standard Specifications.
See special provision for Mechanical Splicers.
See approved list of bar splicer assemblies and mechanical splicers for alternatives.

DESIGNED	SMR
CHECKED	FT
DRAWN	KBF
CHECKED	SMR/FT

BSD-1 7-1-10

US ROUTE 150 OVER HENDERSON CREEK
F.A.S. ROUTE 1190 - SEC. (125BY)BR
KNOX COUNTY
STATION 150+71.00
STRUCTURE NO. 048-0088

BAR SPLICER ASSEMBLY AND MECHANICAL SPLICER DETAILS

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAS 1190	(125BY)BR	KNOX	94	61
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT-		

SHEET NO. 19
20 SHEETS

Contract No. 68087

Illinois Department of Transportation
Division of Highways
IDOT

SOIL BORING LOG

Date 4/12/02

ROUTE FAS 1190 (US 150) DESCRIPTION US 150 over Henderson Creek, 9 miles North of Galesburg LOGGED BY DBR

SECTION (125 BY) BR LOCATION NE 1/4, SE 1/4, SEC. 33, TWP. 13N, RNG. 1E, 4th PM

COUNTY Knox DRILLING METHOD HSA HAMMER TYPE Auto

STRUCT. NO. 048-0027(EXISTING)
Station 150+65

BORING NO. 1
Station 150+17
Offset 15.50ft LT of CL
Ground Surface Elev. 719.07 ft

Surface Water Elev. 702.97 ft
Stream Bed Elev. ft

Groundwater Elev.:
First Encounter 699.3 ft
Upon Completion None ft
After 24 Hrs. 710.5 ft

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
No Sample Taken			
717.57			
Dark Gray SILTY CLAY LOAM	1		
	2	0.5	20.0
	1	P	
715.07			
Light Brown SILTY CLAY LOAM	1		
-5	2	0.7	28.0
	2	P	
712.57			
Light Brown SILTY CLAY	1		
	2	0.2	27.0
	3	B	
710.07			
Light Brown CLAY LOAM	1		
-10	2	0.4	25.0
	2	B	
707.57			
Gray CLAY LOAM	1		
	2	0.4	27.0
	2	B	
705.07			
Dark Gray CLAY LOAM	1		
-15	2	1.8	24.0
	3	B	
	1		
	2	0.7	24.0
	2	B	
	2		
Free Water @ 19.75' (6.02m)			
-20	1	0.1	26.0

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
Dark Gray CLAY LOAM (continued)	1	P	
697.57			
Gray SHALEY CLAY	4		
	8	4.5	21.0
	10	B	
	11		
-25	11		15.0
	16		
	12		
	20		13.0
	35		
	21		
-30	32		12.0
	51		
687.57			
Gray SHALE	21		
	72		13.0
686.40	2802"		
Borehole continued with rock coring.			
-40			

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

Illinois Department of Transportation
Division of Highways
IDOT

ROCK CORE LOG

Date 4/12/02

ROUTE FAS 1190 (US 150) DESCRIPTION US 150 over Henderson Creek, 9 miles North of Galesburg LOGGED BY DBR

SECTION (125 BY) BR LOCATION NE 1/4, SE 1/4, SEC. 33, TWP. 13N, RNG. 1E, 4th PM

COUNTY Knox CORING METHOD 5' DOUBLE TUBE

STRUCT. NO. 048-0027(EXISTING)
Station 150+65

BORING NO. 1
Station 150+17
Offset 15.50ft LT of CL
Ground Surface Elev. 719.07 ft

CORING BARREL TYPE & SIZE 5' NWD4 2.98"O.D.
Core Diameter 2.1 in
Top of Rock Elev. 686.40 ft
Begin Core Elev. 684.73 ft

DEPTH (ft)	CORE (#)	RECOVERY (%)	RQD (%)	CORE TIME (min/ft)	STRENGTH (tsf)
686.40					
Gray SHALE					
11.5% H20	1	87	83		22.2
-35					
11.5% H20	1	87	83		12.6
11.2% H20	1	87	83		15.7
RUN #1 33' TO 38'					
12.1% H20	1	87	83		4.0
11.6% H20	1	87	83		12.0
11.8% H20	1	87	83		14.3
12.0% H20	1	87	83		6.5
681.07					
	2	100	28		16.6
11.9% H20	2	100	28		9.0
12.1% H20					
-40					
RUN #2 38' TO 43'					
676.07					
End of Boring					
-45					
-50					

Color pictures of the cores No
Cores will be stored for examination until
The 'Strength' column represents the uniaxial compressive strength of the core sample (ASTM D-2938)

DESIGNED	SMR
CHECKED	FT
DRAWN	JMI, KBF
CHECKED	SMR/FT

US ROUTE 150 OVER HENDERSON CREEK
F.A.S. ROUTE 1190 - SEC. (125BY)BR
KNOX COUNTY
STATION 150+71.00
STRUCTURE NO. 048-0088

BORING LOGS

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAS 1190	(125BY)BR	KNOX	94	62
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT-		

SHEET NO. 20
20 SHEETS

Contract No. 68087

Illinois Department of Transportation
Division of Highways
IDOT

SOIL BORING LOG

Page 1 of 2

Date 4/15/02

ROUTE FAS 1190 (US 150) DESCRIPTION US 150 over Henderson Creek, 9 miles North of Galesburg LOGGED BY DBR

SECTION (125 BY) BR LOCATION NE 1/4, SE 1/4, SEC. 33, TWP. 13N, RNG. 1E, 4th PM

COUNTY Knox DRILLING METHOD HSA HAMMER TYPE Auto

STRUCT. NO. 048-0027(EXISTING)
Station 150+65

BORING NO. 2
Station 151+09
Offset 14.50ft RT of CL
Ground Surface Elev. 721.03 ft

Surface Water Elev. 702.97 ft
Stream Bed Elev. ft

Groundwater Elev.:
First Encounter 701.3 ft
Upon Completion 702.8 ft
After 24 Hrs. 707.9 ft

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
No Sample Taken			
719.53			
Dark Gray SILTY CLAY LOAM	2	0.25	
2 blow then hit concrete @ 2'		P	
(0.6m)			
717.03			
Gray SILTY CLAY	2		
-5	2	1.03	21.0
	2	B	
714.53			
Light Brown CLAY LOAM	1		
	2	0.2	27.0
	2	B	
712.03			
Light Brown / Light Gray CLAY LOAM	1		
-10	1	0.33	28.0
	2	B	
709.53			
Light Brown CLAY LOAM	1		
	2	0.41	27.0
	1	B	
707.03			
Gray CLAY LOAM	2		
-15	3	0.74	25.0
	3	B	
	2		
	3	0.82	15.0
	5	B	
Free Water @ 19.75' (6.02m)			
-20	3		

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
Gray CLAY LOAM (continued) 700.53	3	1.75	21.0
Brown / Gray SANDY CLAY LOAM	4	P	
	9	0.5	14.0
	10	P	
698.03			
Gray SILTY CLAY	4		
	10	3.71	20.0
	13	B	
-25			
695.53			
Gray SHALEY SILT	7		
	10	2.68	18.0
	13	S	
	10		
	18	3.27	17.0
	30	S	
-30			
	18		
	36	1.61	17.0
	60	S	
	15		
	40	1.75	17.0
	40	S	
-35			
	5		
	37	2.18	16.0
	43	S	
683.03			
Gray SHALE	18		
	39		18.0
	61@3"		
-40			

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

Illinois Department of Transportation
Division of Highways
IDOT

SOIL BORING LOG

Page 2 of 2

Date 4/15/02

ROUTE FAS 1190 (US 150) DESCRIPTION US 150 over Henderson Creek, 9 miles North of Galesburg LOGGED BY DBR

SECTION (125 BY) BR LOCATION NE 1/4, SE 1/4, SEC. 33, TWP. 13N, RNG. 1E, 4th PM

COUNTY Knox DRILLING METHOD HSA HAMMER TYPE Auto

STRUCT. NO. 048-0027(EXISTING)
Station 150+65

BORING NO. 2
Station 151+09
Offset 14.50ft RT of CL
Ground Surface Elev. 721.03 ft

Surface Water Elev. 702.97 ft
Stream Bed Elev. ft

Groundwater Elev.:
First Encounter 701.3 ft
Upon Completion 702.8 ft
After 24 Hrs. 707.9 ft

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
Gray SHALE (continued)			
	11		
	53		0.25
	47@4"		
	40		
	100@5.5"		15.0
-45			
675.53			
Dark Gray SHALE	34		
	100@5"		11.0
674.03			
End of Boring			
-50			
-55			
-60			

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)

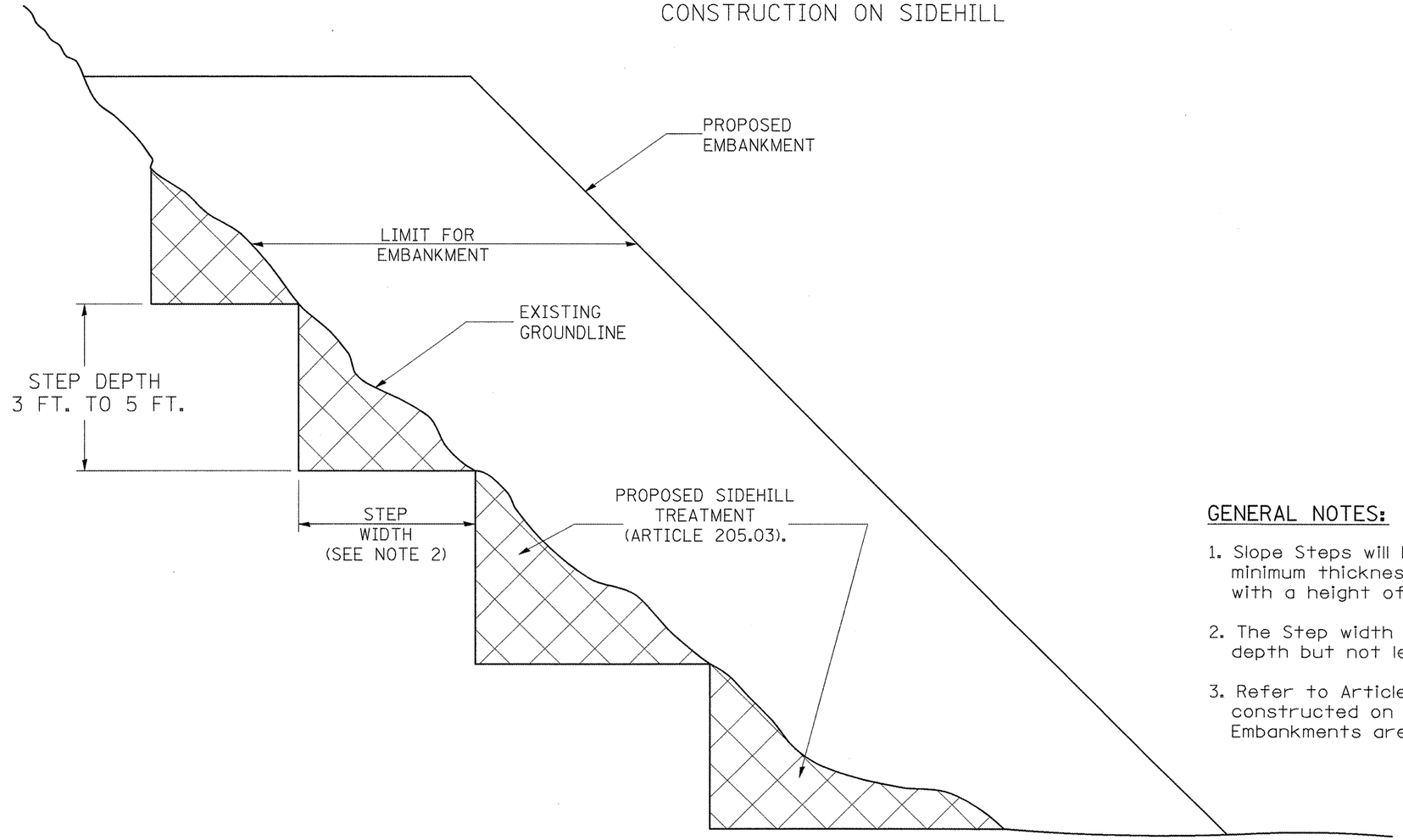
DESIGNED	SMR
CHECKED	FT
DRAWN	JMI, KBF
CHECKED	SMR/FT

US ROUTE 150 OVER HENDERSON CREEK
F.A.S. ROUTE 1190 - SEC. (125BY)BR
KNOX COUNTY
STATION 150+71.00
STRUCTURE NO. 048-0088

BORING LOGS

SLOPE STEPS DETAIL

TYPICAL CROSS-SECTION EMBANKMENT
CONSTRUCTION ON SIDEHILL



GENERAL NOTES:

1. Slope Steps will be required for all 12(300) minimum thickness "silver fills" and on a fills with a height of 10'(3.0m).
2. The Step width shall be twice the Step depth but not less than 6 feet.
3. Refer to Article 205.03 for Embankment to be constructed on Hillside or Slopes, or if existing Embankments are to be widened.

REPLACEMENT MATERIAL:

STANDARD EMBANKMENT
(IN ACCORDANCE WITH
205 OF THE STANDARD SPECIFACATION).

DESIGNER NOTE:

1. EACH PROJECT SHOULD BE REVIEWED INDEPENDENTLY FOR TREATMENT REQUIRED.
2. REFER TO THIS DETAIL WITH NOTE ON APPLICABLE TYPICAL SECTIONS.

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

1-1-97	RENUM. L-5.03, NEW REVISION BOX, REVISED TITLE	T.P.
	BOX, REVISED GENERAL NOTES.	
10-16-06	REVISED TO 2007 SPEC.	M.A.

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SLOPE STEPS DETAIL

NOT TO SCALE

CADD STD. 205001-04

F.A.S RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1190	(125BY)BR	KNOX	94	63
		CONTRACT NO. 68087		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

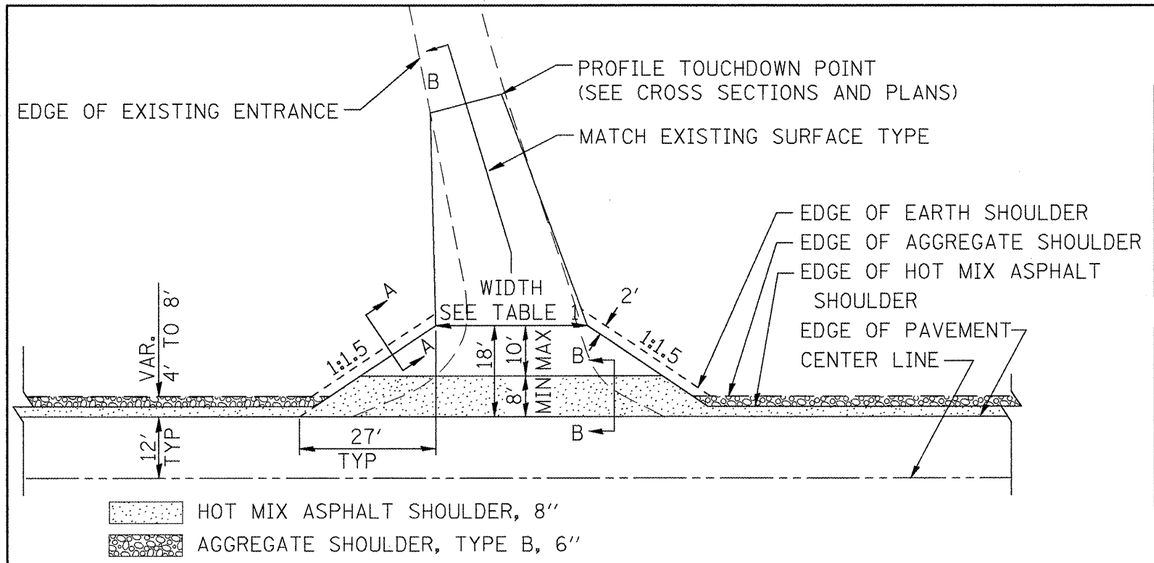


TABLE 1

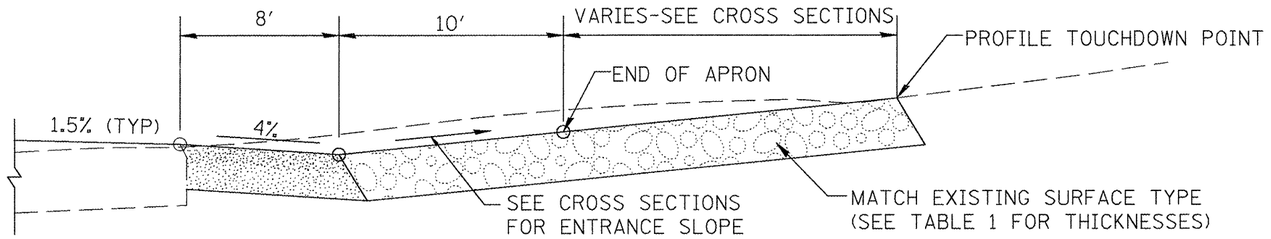
RURAL ENTRANCE DESIGN

ELEMENT	NON-COMMERCIAL		NON-COMMERCIAL W/ LARGE FARM EQUIPMENT		COMMERCIAL			
					1-WAY OPERATION		2-WAY OPERATION	
WIDTH (W)	12'(3.6m) Min.	24'(7.2m) Max.	20' (6.1m)Max.	30' (9.0m)Max.	14'(4.3m) Min.	24'(7.2m) Max.	24'(7.2m) Min.	35'(10.7m) Max.
FLARE	1:1.5							
MAX. GRADE (G)	12%		12%		10%			

SURFACE TYPE			
INCIDENTAL HOT MIX ASPHALT SURFACING	6"	—	8"
AGGREGATE SURFACE COURSE	6"	8"	8"
PCC DRIVEWAY PAVEMENT	6"	—	7"

PLAN

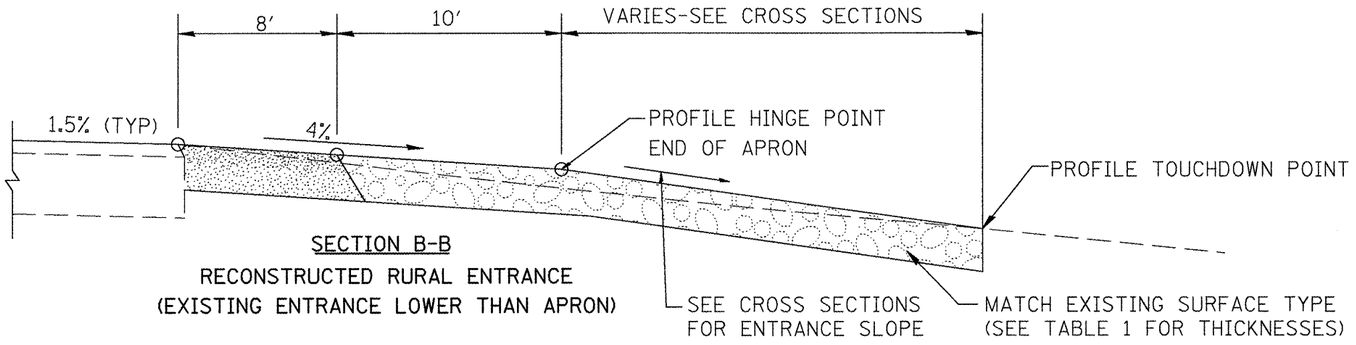
COMMERCIAL / FARM-RELATED ENTRANCE



SECTION B-B

RECONSTRUCTED RURAL ENTRANCE

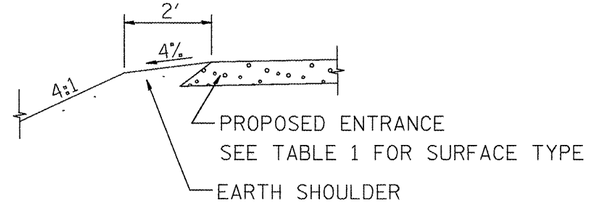
(EXISTING ENTRANCE HIGHER THAN APRON)



SECTION B-B

RECONSTRUCTED RURAL ENTRANCE

(EXISTING ENTRANCE LOWER THAN APRON)



SECTION A-A

SHOULDER TREATMENT FOR RURAL ENTRANCES

GENERAL NOTES

1. ENTRANCES SHALL SLOPE AWAY FROM THE PAVEMENT AT A RATE EQUAL TO THE SHOULDER SLOPE FOR A MINIMUM DISTANCE OF 8'.

2. A MINIMUM 8' PAVED SHOULDER SHALL BE CONSTRUCTED BETWEEN LOCATIONS WHERE THE RURAL ENTRANCE IS LESS THAN 50' FROM AN ADJACENT SIDEROAD, ENTRANCE OR MAILBOX TURNOUT.

3. A TAPER RATE OF 5:1 IS DESIRABLE WHEN TRANSITING FROM THE RURAL ENTRANCE WIDTH SHOWN IN TABLE 1, TO THE EXISTING ENTRANCE WIDTH.

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

01-01-97	RENUM. C-103.06, NEW REVISION BOX	T.P.	10-16-06	REVISED TO 2007 SPEC.	M.A.
07-01-97	REVISE DESIGNER NOTES	J.A.			
01-17-03	ADJUST DESIGN, CHANGE ENTRANCE	JATR			
09-15-05	RADIUS FOR FLARE	M.M.A.			

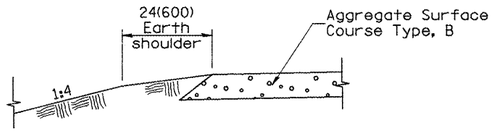
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

RURAL ENTRANCES FOR "3R" PROJECTS

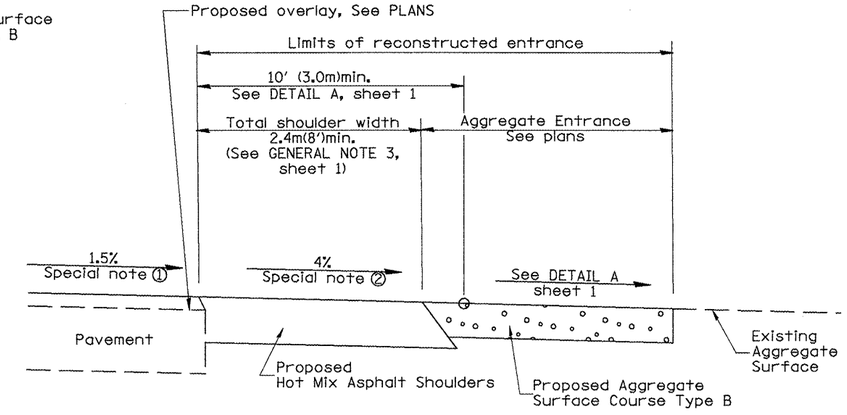
NOT TO SCALE

SHT. 1 OF 2
CADD STD. 406301-D4

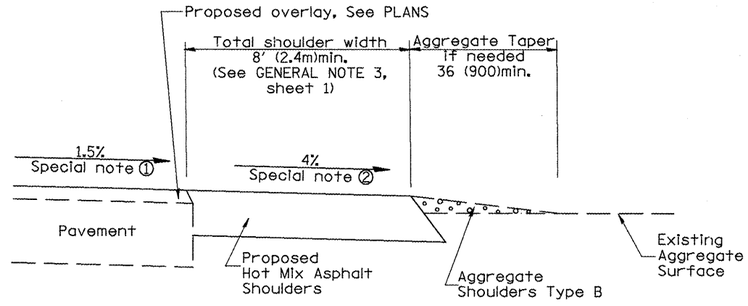
F.A.S RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1190	(125BY)BR	KNOX	94	64
		CONTRACT NO. 68087		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



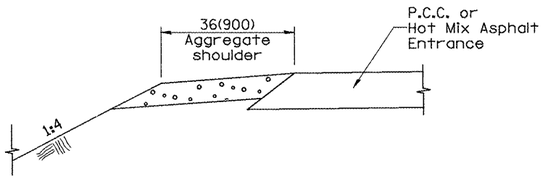
SECTION A-A
SHOULDER TREATMENT FOR AGGREGATE ENTRANCES



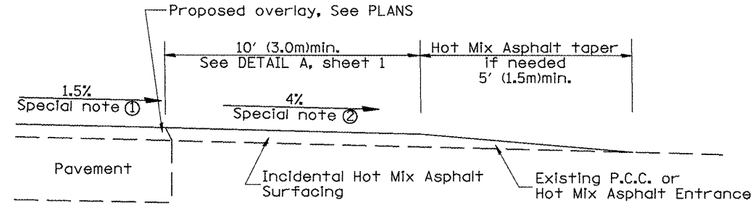
SECTION B-B
RECONSTRUCTED AGGREGATE ENTRANCE



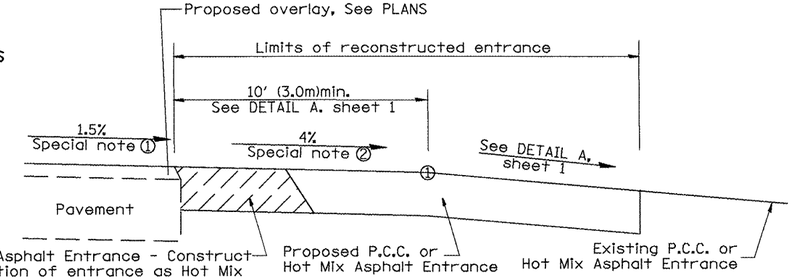
SECTION B-B
EXISTING AGGREGATE ENTRANCE



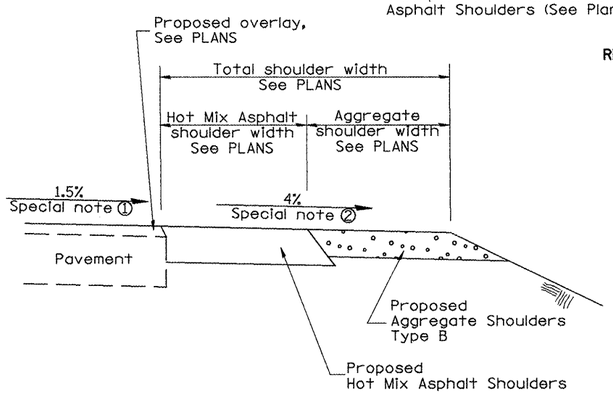
SECTION C-C
SHOULDER TREATMENT FOR P.C.C. OR HOT MIX ASPHALT ENTRANCES



SECTION D-D
EXISTING P.C.C. OR HOT MIX ASPHALT ENTRANCE



SECTION D-D
RECONSTRUCTED P.C.C. OR HOT MIX ASPHALT ENTRANCE



SECTION E-E
MAINLINE SHOULDER TREATMENT

SPECIAL NOTES

① The mainline pavement cross-slope is 1.5% for tangent alignment. See PLANS for cross-slope on superelevated horizontal curves.

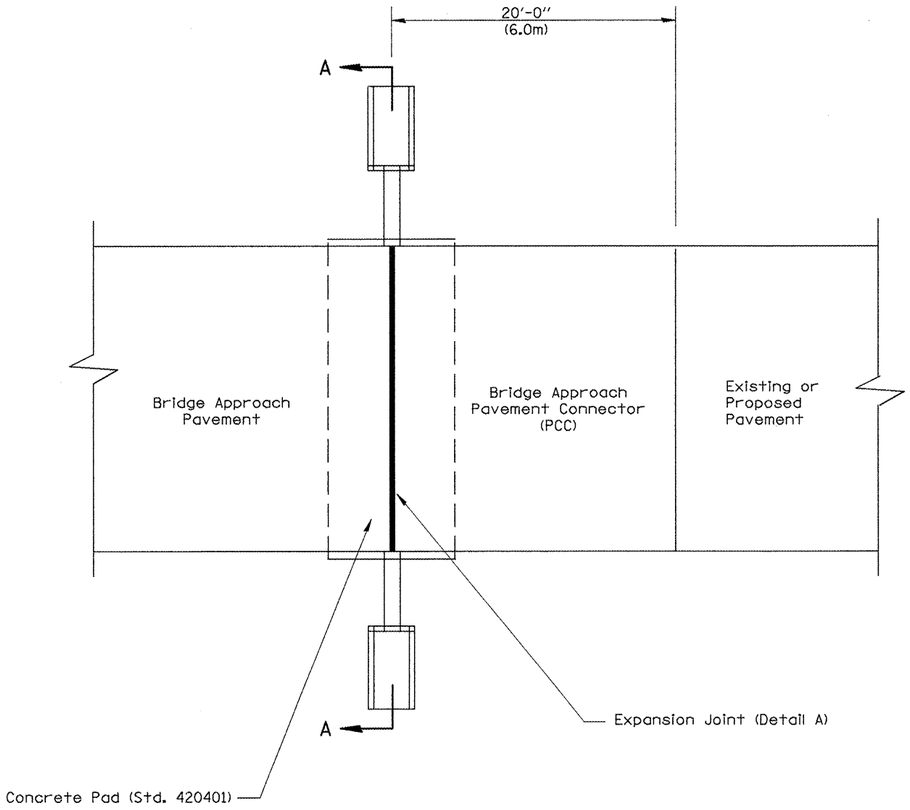
② The shoulder slope shall control the entrance profile for a distance of 10' (3.0m) minimum from the pavement edge. The shoulder cross-slope is 4% for tangent alignment. Through superelevated curves, the maximum pavement-shoulder breakover should not be greater than 10% for shoulders 6' (1.8m) and wider and 12% for shoulders 4' (1.2m) and less. Where 12' (366cm) paved shoulders are provided, the breakover should be at the edge of the paved shoulder rather than at the pavement edge.

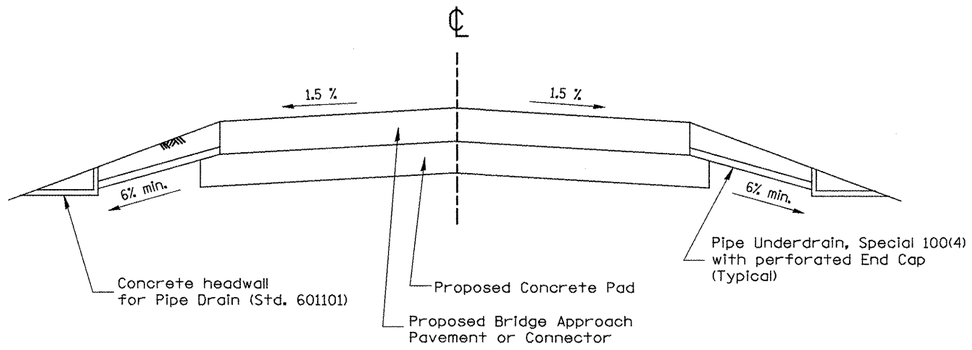
All dimensions are in inches (millimeters) unless otherwise noted.

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

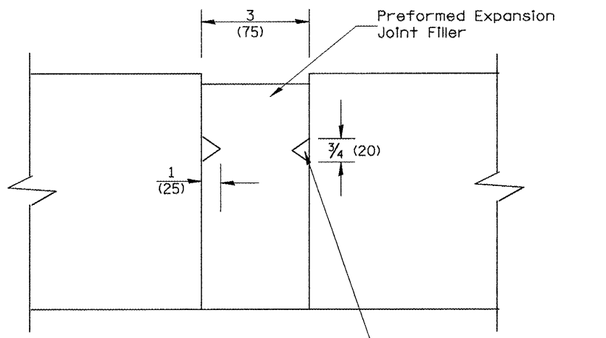
RURAL ENTRANCES FOR "3R" PROJECTS
SHT. 2 OF 2
NOT TO SCALE
CADD STD. 406301-D4

F.A.S RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1190	(125BY)BR	KNOX	94	65
		CONTRACT NO. 68087		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		





SECTION A-A



DETAIL A - EXPANSION JOINT

Preformed Expansion Joint Filler shall meet the requirements of Article 1051.08 or 1051.09. The expansion joint shall be constructed in accordance with Expansion Joint Sealing Detail shown on Standard 420001 and as shown herein.

GENERAL NOTES:

1. All work shall be done in accordance with Standard 420401 except as shown herein.
2. The concrete headwalls and pipe underdrain special will be in accordance with Section 601.
3. The bridge approach pavement connector (pcc) shall be constructed similar to section G-G for existing construction rigid pavement as shown standard 420401. Adjacent to PCC base course or pavement deformed bars will be required. Adjacent to bituminous pavement deformed bars will not be required.

DESIGNER NOTE:
1. Include Standards 420001, 601101 and 420401 in plans.

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

01-01-97	RENUM. H-6.09, NEW REVISION BOX, NOTES	T.P.
02-22-97	REVISED SECTION A-A	
03-01-97	CORRECT STD. NO. IN NOTES	J.A.
10-16-06	REVISED TO 2007 SPEC.	M.A.

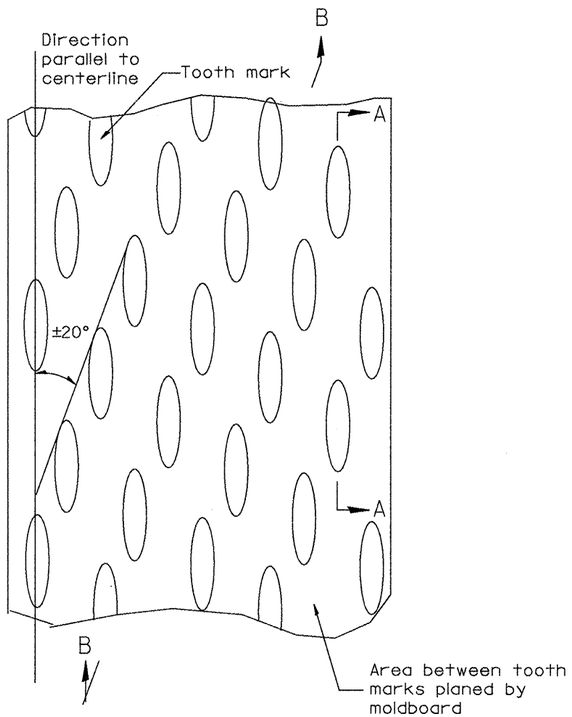
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BRIDGE APPROACH DETAIL

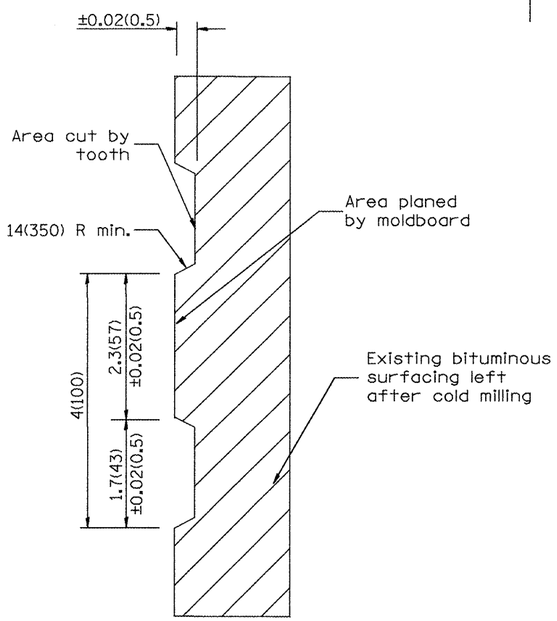
NOT TO SCALE

CADD STD. 420401-D4

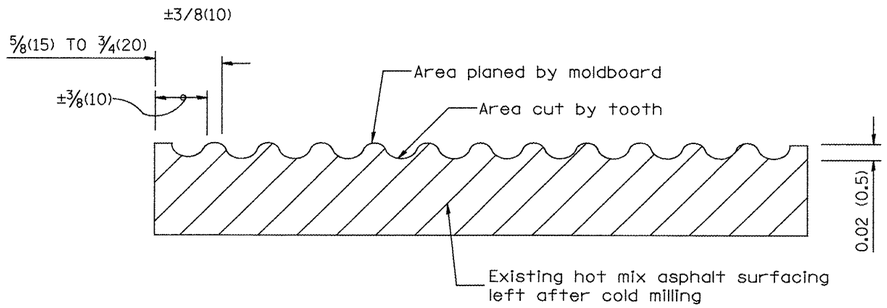
F.A.S RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1190	(125BY)BR	KNOX	94	66
		CONTRACT NO. 68087		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



PLAN



SECTION A-A



SECTION B-B PROJECTED
PERPENDICULAR TO CENTERLINE

General notes:

1. Coldmilling shall consist of two processes: Cutting with carbide teeth mounted on a rotating drum, and planing with a moldboard mounted immediately behind the cutting drum.
2. Other similar patterns will be acceptable if they consist of a smooth, flat, planed surface interspersed with a pattern of discontinuous longitudinal striations.

DESIGNER NOTES:
1. INCLUDE DISTRICT SPECIAL PROVISION, IF APPLICABLE.

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

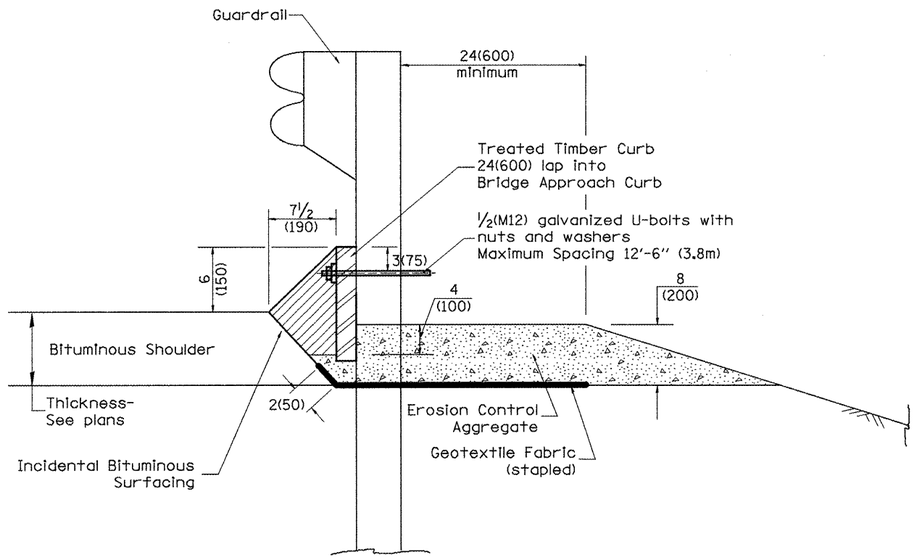
01-01-97	RENUM. C-104.01, NEW REVISION BOX	T.P.
04-20-98	REMOVED MILLING DETAIL FROM STANDARD	J.A.
09-08-98	CORRECT NOTE LEADER PLACEMENT	R.W.
10-16-06	REVISED TO 2007 SPEC.	M.A.

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

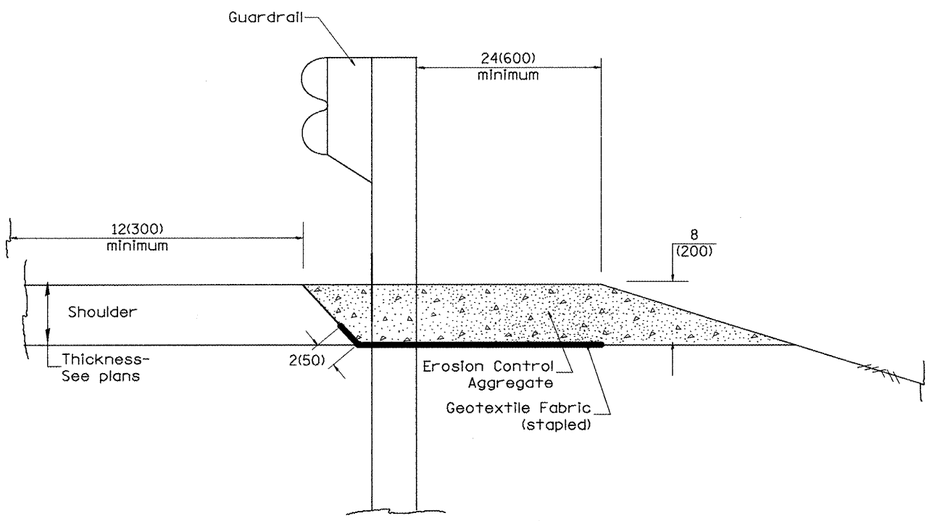
HOT MIX ASPHALT SURFACE REMOVAL (COLD MILLING)

NOT TO SCALE — CADD STD. 440001-D4

F.A.S RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1190	(125BY)BR	KNOX	94	67
		CONTRACT NO. 68087		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



TYPICAL SECTION WITH EROSION CONTROL CURB



TYPICAL SECTION WITHOUT EROSION CONTROL CURB

GENERAL NOTES: EROSION CONTROL CURB

1. This work shall consist of grading as needed, installing hardware and treated timber boards, furnishing and placing mastic material and incidental bituminous surfacing in front of Steel Plate Beam Guardrail in accordance with Plan Details.

2. Timber shall be treated in accordance with Article 1007.12. All preservatives specified in the article will be allowed. Waterborne preservatives "asa" and "cca" shall have a minimum retention of 0.40 lbs./cu. ft. (6.4 kg/m³)

GENERAL NOTES: GUARDRAIL AGGREGATE EROSION CONTROL

1. This work shall consist of grading as needed, furnishing and installing geotextile fabric and staples, and furnishing, placing and shaping crushed aggregate around and behind Steel Plate Beam Guardrail posts in accordance with Plan Details.

2. Before placing the aggregate and the Geotextile Fabric, weeds and grass shall be removed from the area to be covered.

3. After the area has been prepared, and in a dry condition, the Geotextile fabric shall be placed with a 12(300) minimum overlap. A knife cut for guardrail post installation is necessary.

4. The aggregate shall be deposited, compacted and shaped by either mechanical or hand methods, in a manner reasonably true to line and grade.

5. The Contractor shall have the option of placing the guardrail before or after the Geotextile Fabric and Aggregate are in place. If the guardrail is placed after the Geotextile Fabric and Aggregate, then any voids must be filled and the aggregate returned to line and grade.

6. Materials shall meet the following requirements:

   A. The crushed aggregate shall be CA1 gradation in accordance with Article 1004.01(c) of the Standard Specifications.

   B. The Geotextile Fabric shall be nonwoven fabric in accordance with Article 1080.02 of the Standard Specifications.

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

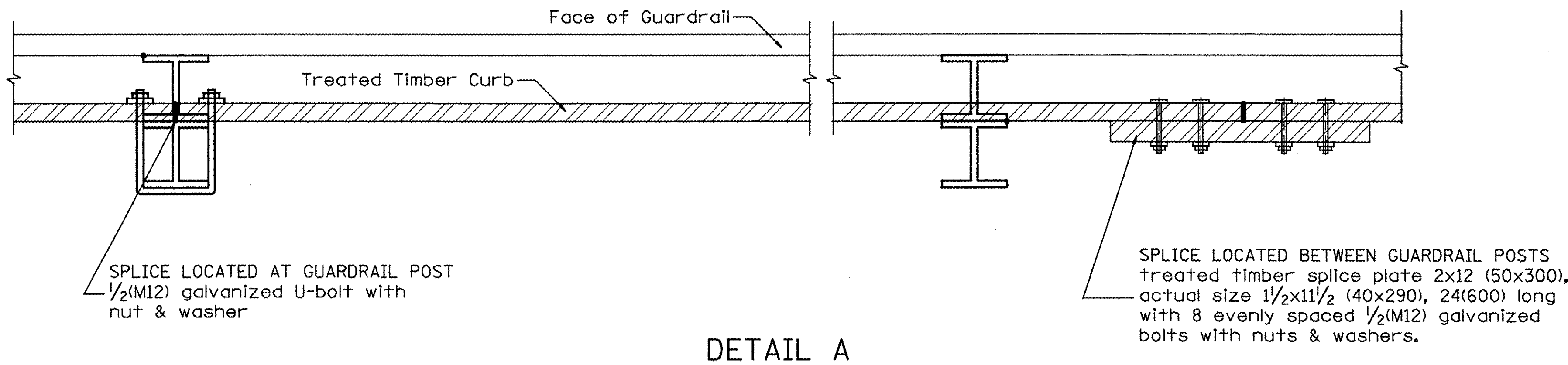
01-01-97	RENUM. C-22.01, NEW REVISION BOX	T.P.
03-01-97	CORRECT STD. NUMBERS IN NOTES PG. 2	J.A.
11-03-00	CORRECTION TO NOTES	M.A.
10-16-06	REVISED TO 2007 SPEC.	M.A.

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GUARDRAIL EROSION CONTROL TREATMENTS
SHT. 1 OF 2
NOT TO SCALE
CADD STD. 630101-D4

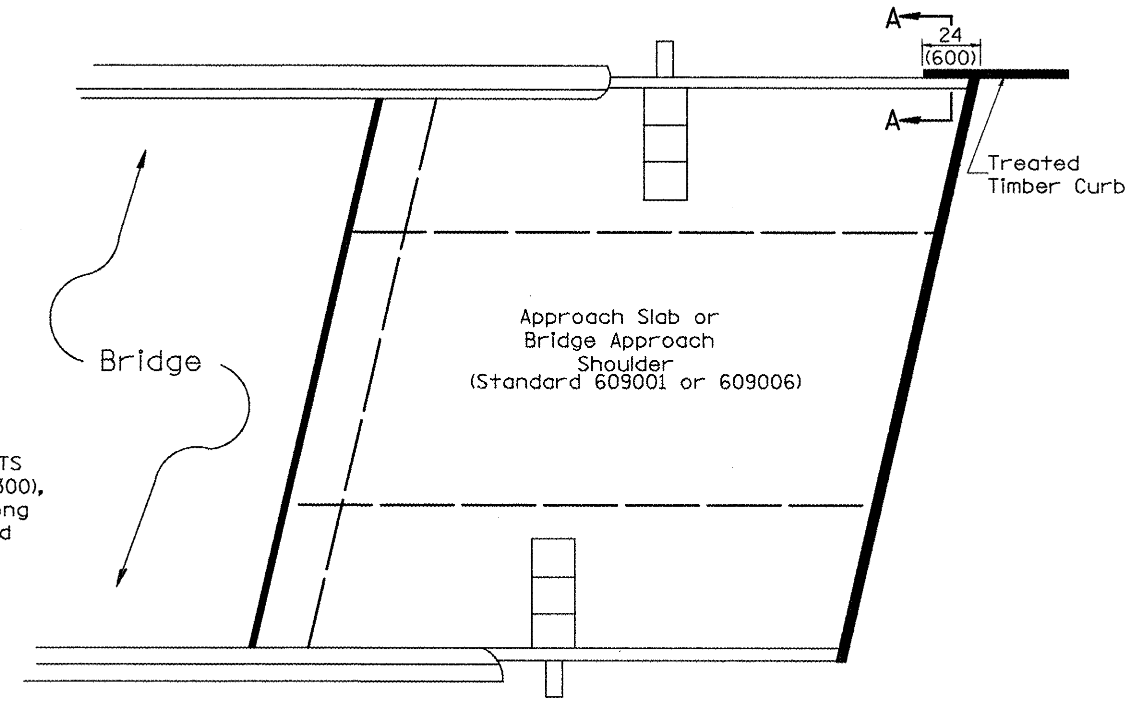
F.A.S RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1190	(125BY)BR	KNOX	94	68
		CONTRACT NO. 68087		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

Use GUARDRAIL AGGREGATE EROSION CONTROL at guardrail installations where grades are less than 1% (include District Special Provision)
2. Include State Standards 609001, 609006 or 610001 if applicable.
3. Include the following District Cadd Standards as needed: Slope Drains for Exposed Pipes; Slope Drains for Buried Pipes; Seepage Collars for Buried Pipes; Seepage Collars for Exposed Pipes; Concrete Thrust Blocks and Pipe Elbow.
4. Include District Special Provision -"Aggregate Quality" for projects located in the Western Area of the District - approx. dividing line is IL 97.
5.



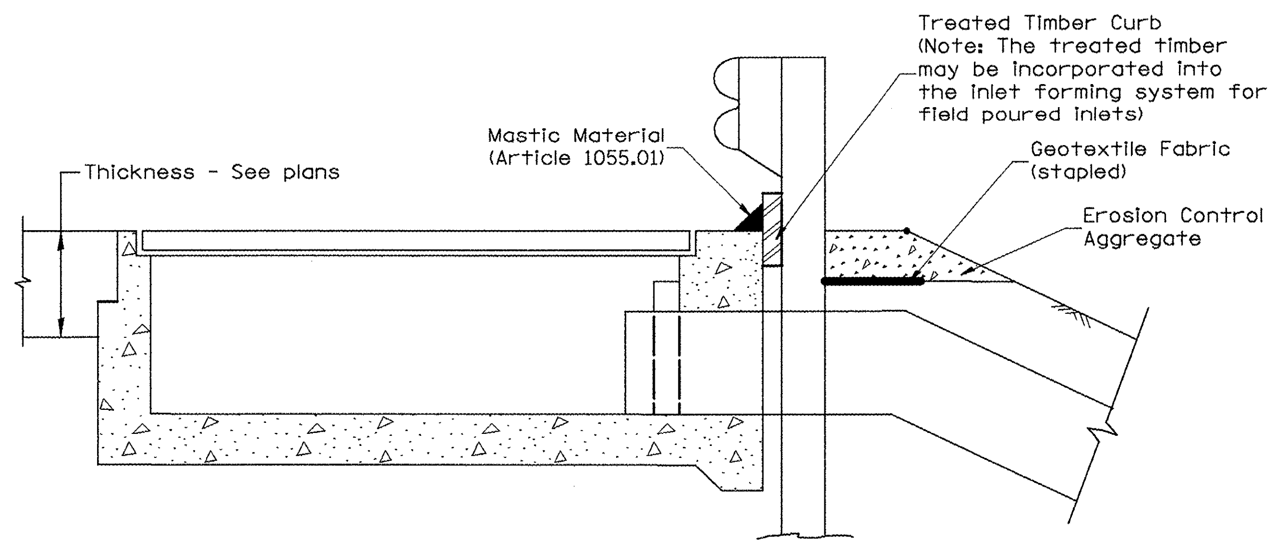
DETAIL A

(Typical Treated Timber Splices)

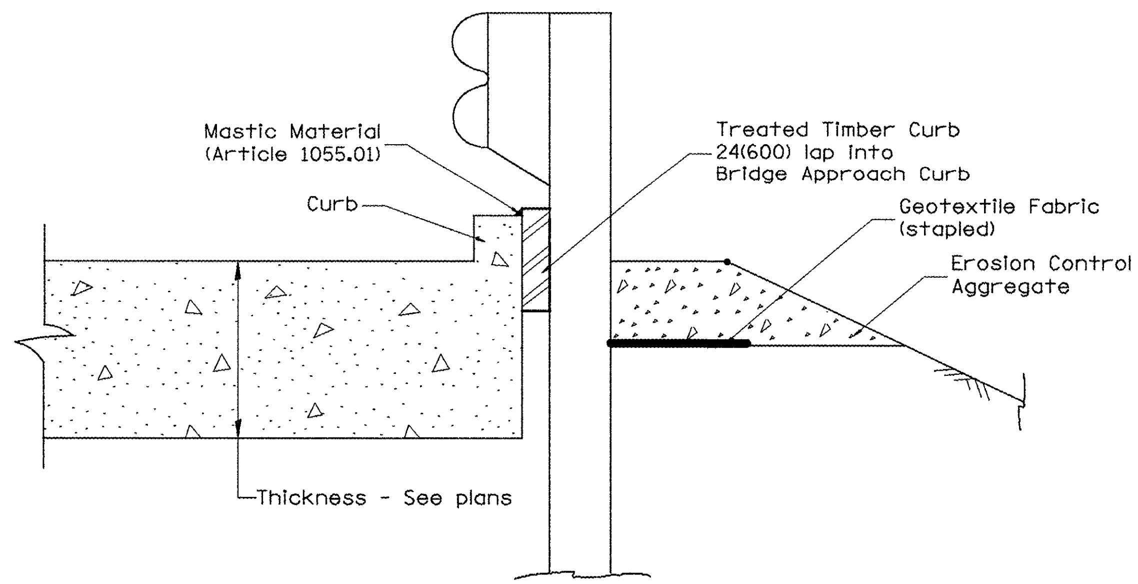


PLAN VIEW

APPROACH SLAB OR BRIDGE APPROACH SHOULDER
(STANDARD 609001 or 609006)



TYPICAL SECTION WITH EROSION CONTROL CURB
AT INLETS TYPE E & F (STANDARD 610001)



SECTION A-A

TYPICAL SECTION WITH EROSION CONTROL CURB
AT BRIDGE APPROACH CURB
(STANDARD 609001 OR 609006)

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

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GUARDRAIL EROSION CONTROL TREATMENTS

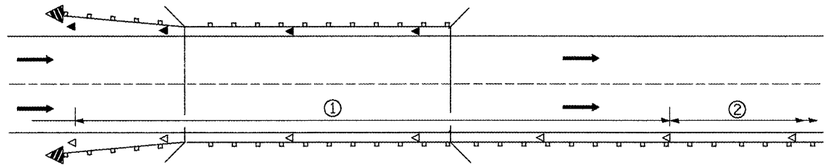
NOT TO SCALE

SHT. 2 OF 2
CADD STD. 630101-D4

F.A.S RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1190	(125BY)BR	KNOX	94	69

CONTRACT NO.

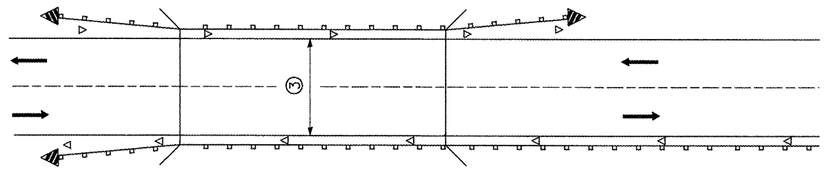
FED. ROAD DIST. NO. | ILLINOIS | FED. AID PROJECT



① Spacing 80 ft. (24 m) max. for first 400 ft. (122 m) or curve spacing shown in Standard 635001, whichever is less (min. 4 reflectors regardless of length).

② After 400 ft. (122 m), transition to normal delineator spacing shown in Standard 635001, and continue as required.

ONE-WAY TRAFFIC



③ Bidirectional silver/silver should be used in lieu of monodirectional silver on both sides of two-lane bridges where the bridge pavement is less than 24 (610) wider than the pavement approaching the bridge.

TWO-WAY TRAFFIC

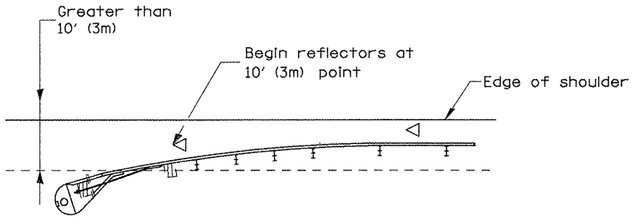
GUARDRAIL / BARRIER WALL / BRIDGE RAIL REFLECTORS

LEGEND

◁ Monodirectional silver

◀ Monodirectional amber

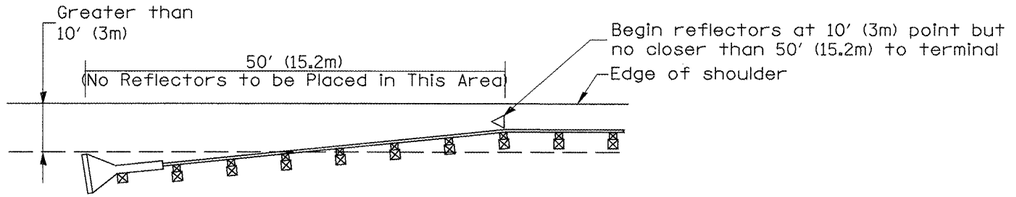
Terminal Marker - Black/Yellow
Left or Right as appropriate



NOTE: Omit terminal marker when terminal over 10′ (3m) from edge of paved shoulder or break point of unpaved shoulder, or when terminal buried in backslope.

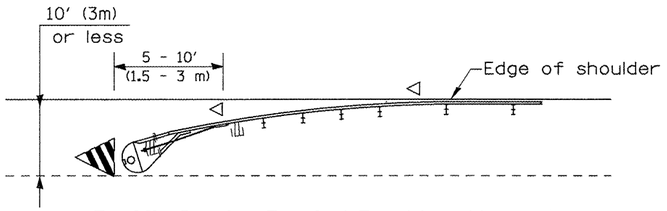
Traffic Barrier Terminal Type(*) and/or
Turned-Down Terminal

[Terminal over 10′ (3m) from edge of shoulder]
*See Plans for Type



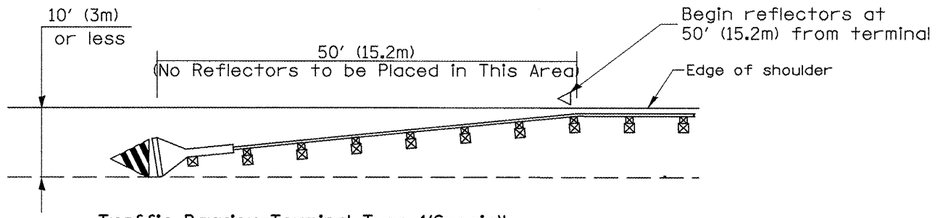
NOTE: Omit terminal marker when terminal over (10′) from edge of paved shoulder or break point of unpaved shoulder.

Traffic Barrier Terminal Type 1 (Special)
[Terminal over 10′ (3m) from edge of shoulder]



Traffic Barrier Terminal Type(*) and/or
Turned-Down Terminal

[Terminal over 10′ (3m) or less from edge of shoulder]
*See Plans for Type



Traffic Barrier Terminal Type 1(Special)
[Terminal 10′ (3m) or less from edge of shoulder]

TERMINAL MARKER PLACEMENT

DESIGNER NOTES:

1. INCLUDE APPROPRIATE SPECIAL PROVISIONS FOR "GUARD RAIL DELINEATION POLICY: 1. FROM INTERIM SPECIAL PROVISIONS 94-74; "GUARDRAIL AND BARRIER WALL DELINEATION."
2. IF POST MOUNT TERMINAL MARKER IS USED, INCLUDE STATE STD. 720011.

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

01-01-97	RENUM. E-10.02, NEW REVISION BOX	T.P.
03-01-97	CORRECT STD. SPEC. *	J.A.
10-16-06	REVISED TO 2007 SPEC.	M.A.

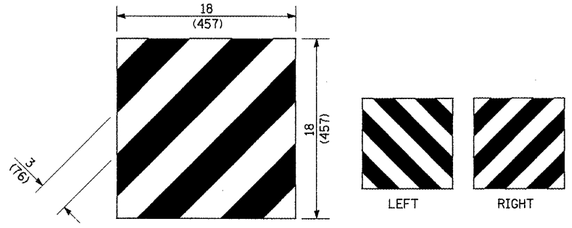
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GUARDRAIL AND BARRIER WALL DELINEATION

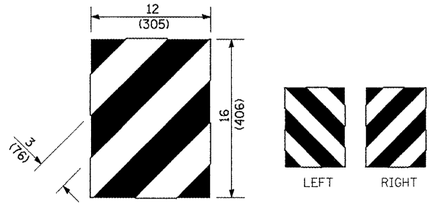
NOT TO SCALE

SHT. 1 OF 3
CADD STD. 635101-D4

F.A.S RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1190	(125BY)BR	KNOX	94	70
		CONTRACT NO. 68087		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



For Traffic Barrier Terminal Type 1 (Special)



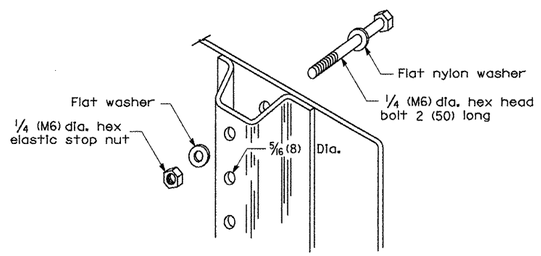
For Traffic Barrier Terminal Type (*)
and Post Mount
* See Plans for Type

TERMINAL MARKER DETAILS

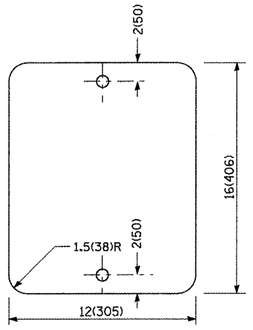
Color: Black / Yellow reflectorized

OM - I100 (L or R) Direct applied reflective sheeting

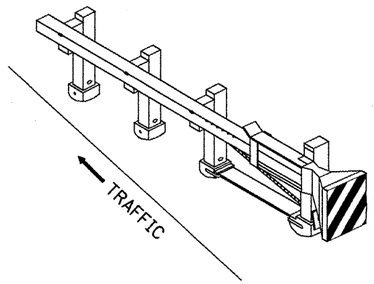
OM - I200 (L or R) Post mounted



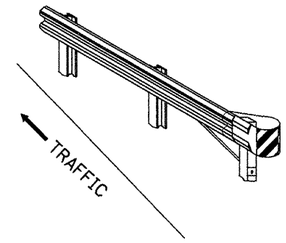
DETAIL OF MOUNTING TERMINAL MARKER TO POST



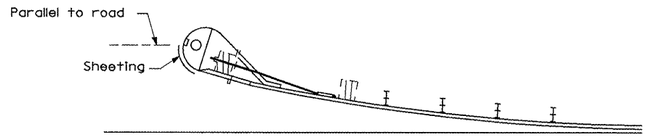
STANDARD TERMINAL MARKER



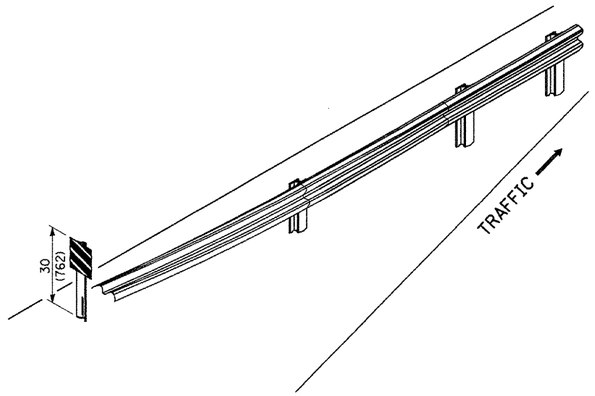
Standard Treatment - Direct Applied Sheeting
Traffic Barrier Terminal Type 1 (Special)



Standard Treatment - Direct Applied Sheeting
Traffic Barrier Terminal Type (*)
* See Plans for Type



Sheeting Position for
Traffic Barrier Terminal Type (*)
* See Plans for Type



ALTERNATE TREATMENT - POST MOUNTED
(For turned-down terminal where sheeting cannot be direct applied)

POST MOUNTED TERMINAL MARKER ASSEMBLY

TERMINAL MARKER TREATMENTS

GENERAL NOTES

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

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GUARDRAIL AND BARRIER WALL DELINEATION

SHT. 2 OF 3

NOT TO SCALE

CADD STD. 635101-D4

F.A.S RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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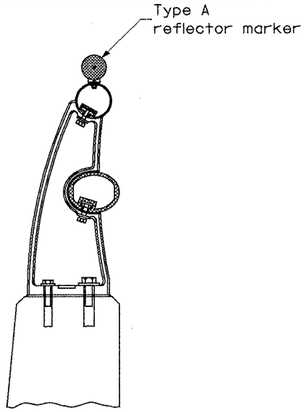
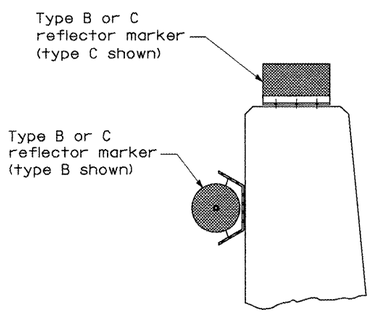
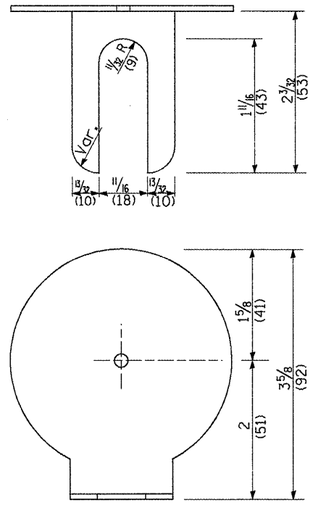
		CONTRACT NO. 68087		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

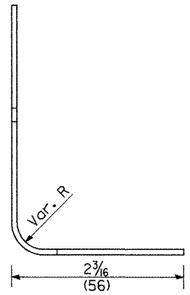


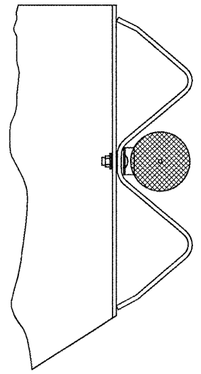
TYPICAL MOUNTING DETAIL
FOR BRIDGE RAIL REFLECTOR



TYPICAL MOUNTING DETAIL
FOR BARRIER WALL REFLECTOR

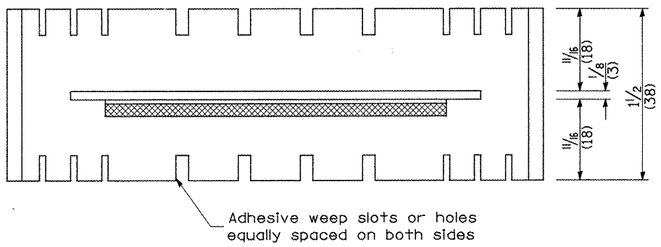




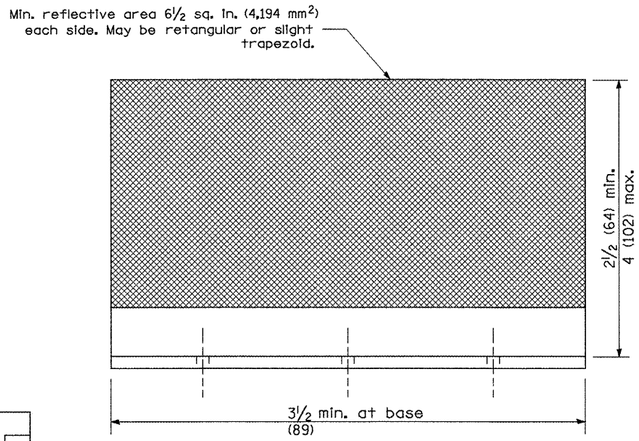


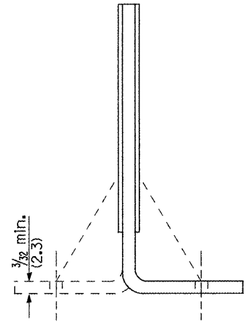
TYPICAL GUARDRAIL MOUNTING WITH
REFLECTOR MARKER TYPE A

REFLECTOR MOUNTING



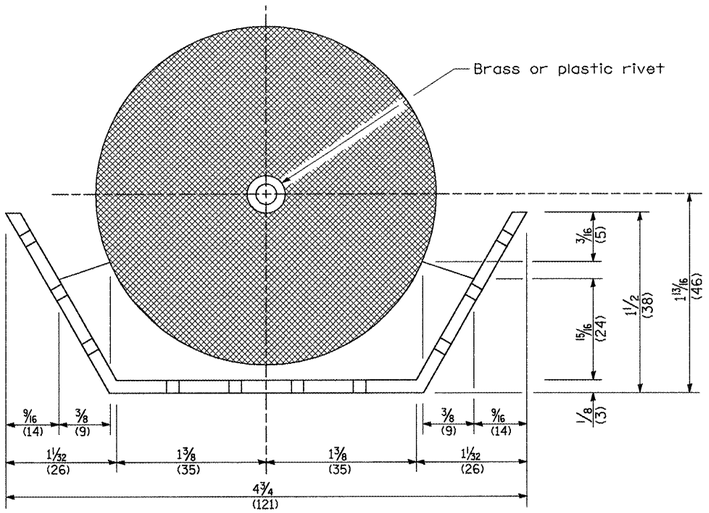
REFLECTOR MARKER TYPE A



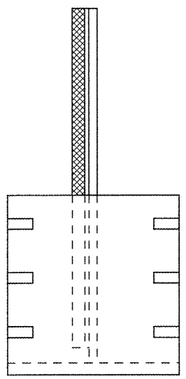


Cross section may be "T"
or "L" shaped and may have
side supports at ends.

REFLECTORS



REFLECTOR MARKER TYPE B

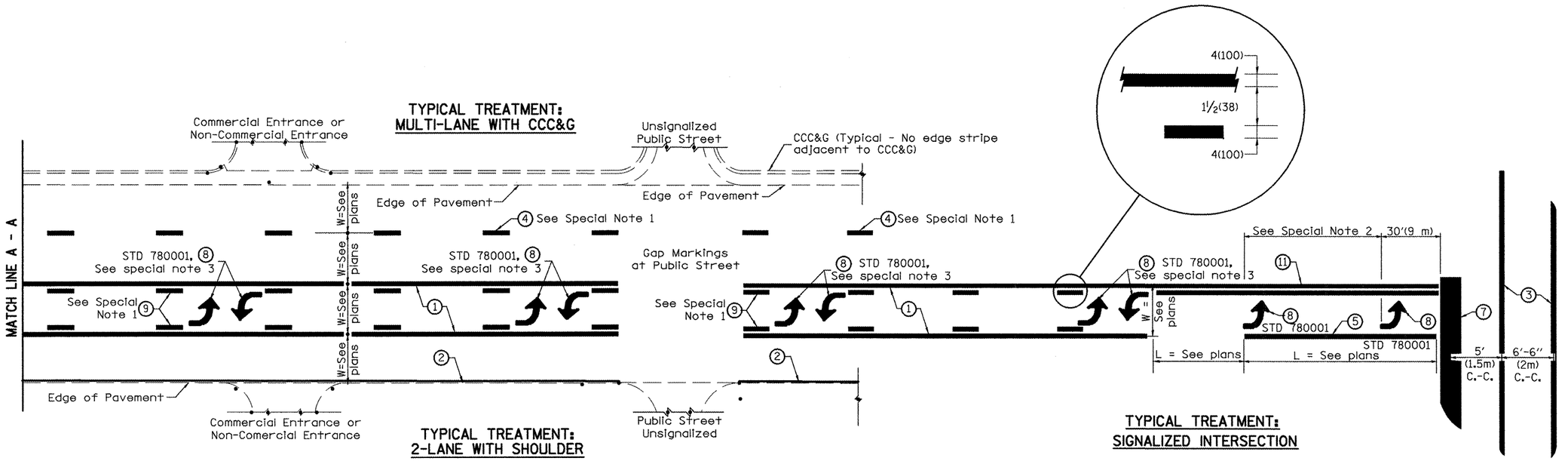


3 min. adhesive weep
holes or slots each side,
variable spacing.

REFLECTOR MARKER TYPE C

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

		STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	GUARDRAIL AND BARRIER WALL DELINEATION SHT. 3 OF 3 NOT TO SCALE CADD STD. 635101-D4	F.A.S RTE. 1190	SECTION (125BY)BR
				COUNTY KNOX	TOTAL SHEETS 94
				SHEET NO. 72	CONTRACT NO. 68087
				FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT

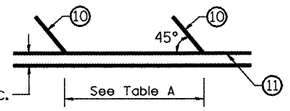


FLUSH PAVED MEDIAN: TWO-WAY LEFT TURN LANE WITH ONE-WAY LEFT TURN LANE AT SIGNALIZED INTERSECTION

TYPICAL PAVEMENT MARKING LEGEND

(Note: This is a District Standard Legend. Some elements may not apply to specific project.)

1. 4(100) Solid (Yellow)
2. 4(100) Solid (White)
3. 2-6(150) Crosswalk @ 6'-6" (2m)min C.-C. (White)
   2-8(200) Crosswalk @ 6'-6" (2m)min C.-C. (White) (When traffic signals are present.)
4. 6(150) Skip-Dash (White) — 10' (3.05m) / 30' (9.14m) / 10' (3.05m) (See Special Note 1)
5. 8(200) Solid (White)
6. 12(300) Diagonal (White) (Item 6 is shown on Std. 780001)
7. 24(600) Stop Bar (White)
8. Letters & Arrows — 33' (10m) (See Std. 780001 and Special Notes 2 & 3)
9. 4(100) Skip-Dash (Yellow) — 10' (3.05m) / 30' (9.14m) / 10' (3.05m) (See Special Note 1)
10. 12(300) Diagonal (Yellow) (See Table A)
11. 4(100) Double Solid (Yellow) — 11(280) C.-C., See Table A



SPECIAL NOTES

1. Skip-Dash markings will be centered between both ends of city blocks and shall be placed in alignment transversly across the pavement.
2. The following shall apply to arrows located in one-way left turn lanes:
   A. A minimum of two (2) arrows is required.
   B. The maximum spacing between arrows is 80' (24 m).
   C. Arrows shall be evenly spaced if three (3) or more are required.
3. The following shall apply to arrow pairs located in two-way left turn lanes:
   A. A minimum of two (2) arrow pairs is required.
   B. The maximum spacing between arrow pairs is 200' (61 m).
   C. Arrow pairs shall be evenly spaced if three (3) or more are required.
   D. The spacing between BI Directional Left Turn Arrows is 33' (10 m).

GENERAL NOTES

1. Refer to State Standard 780001 for additional Pavement Markings including letters & arrows.
2. See Plans for Pavement Markings adjacent to curbed islands and medians, and through lane reductions.

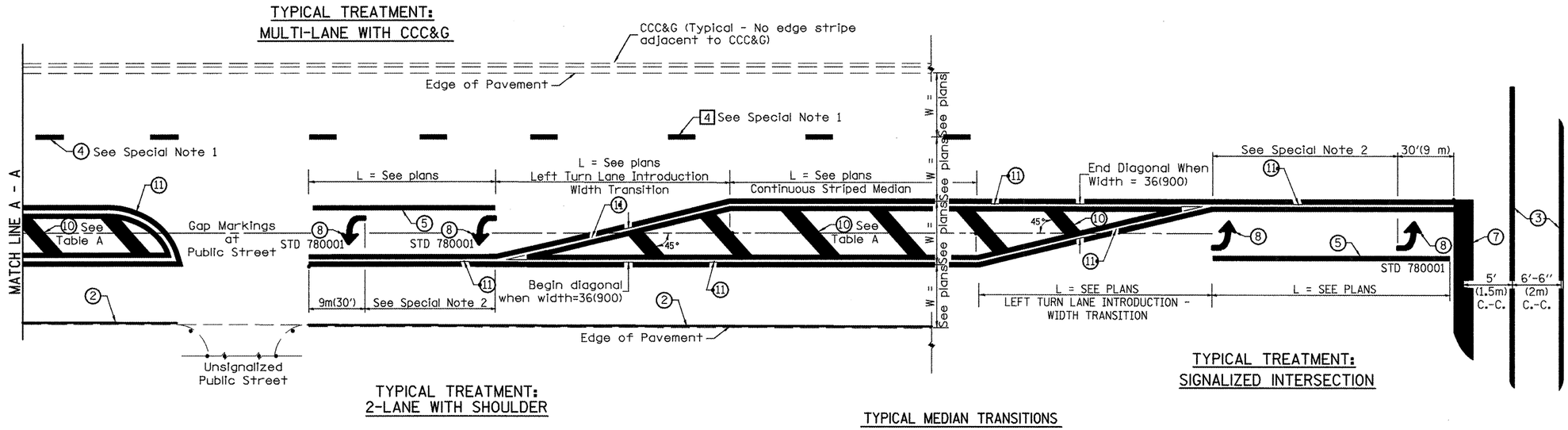
DESIGNER NOTES:
1. Include State Standard 780001 (Typical Pavement Markings)

01-01-97	RENUM. F-8.03, NEW REVISION BOX	T.P.	10-16-06	REVISED TO 2007 SPEC.	
02-07-97	ADD BI DIRECTIONAL DIMENSION	J.A.			
10-97	CORRECT BI DIRECTIONAL DIMENSION	J.A.			
08-02	ADD CROSSWALK DMNS. WITH T.S.	M.A.			

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

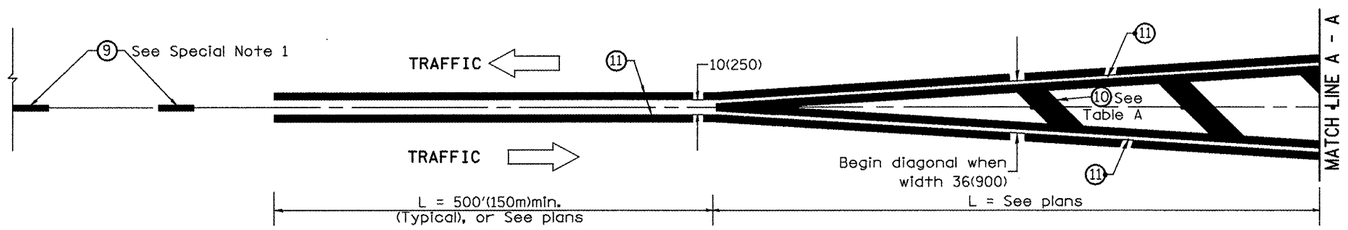
TYPICAL PAVEMENT MARKINGS
NOT TO SCALE
SHT. 1 OF 2
CADD STD. 780001-D4

F.A.S RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1190	(125BY)BR	KNOX	94	73
		CONTRACT NO. 68087		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



TYPICAL MEDIAN TRANSITIONS

FLUSH PAVED MEDIAN: RESTRICTED LEFT TURN LANE



MEDIAN INTRODUCTION - WIDTH TRANSITIONS

TABLE A

RECOMMENDED SPACING BETWEEN DIAGONAL LINES

SPEED LIMIT RANGE	CONTINUOUS	INTERSECTION CHANNELIZATION (Includes Width Transitions for Median and Left Turn Lane Introductions)
Less Than 30 mph (50 km/h)	50' (15m)	15' (5m)
30 - 45 mph (50 - 70 km/h)	75' (23m)	20' (6m)
Over 45 mph (70 km/h)	150' (46m)	30' (9m)

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

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TYPICAL PAVEMENT MARKINGS

NOT TO SCALE

SHT. 2 OF 2
CADD STD. 780001-D4

F.A.S RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1190	(125BY)BR	KNOX	94	74
		CONTRACT NO. 68087		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

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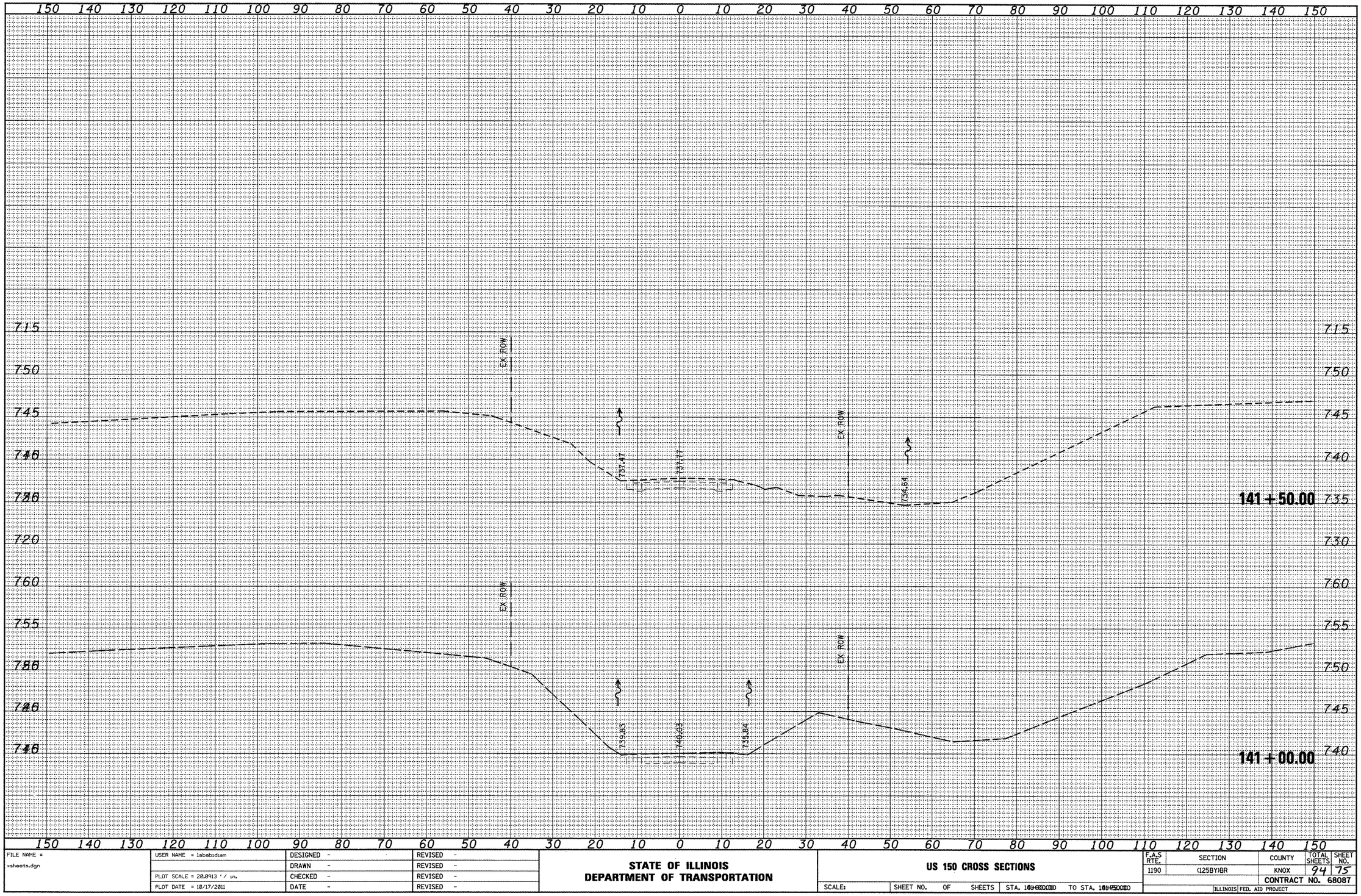
PLOTTED	
TEMPLATE	
NOTE BOOK	
NO.	AREAS CHECKED



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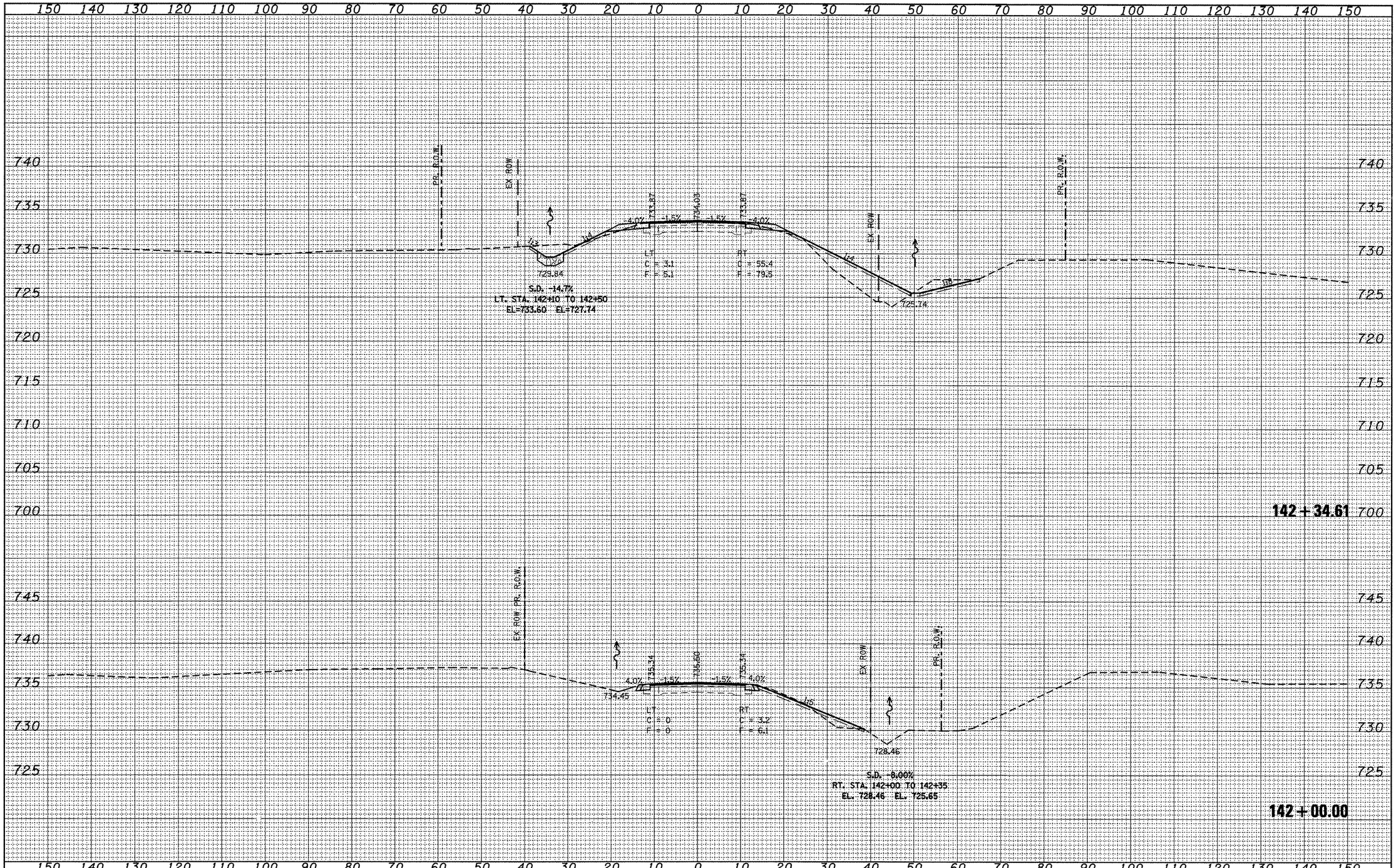
	PLOT DATE = 10/17/2011	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

US 150 CROSS SECTIONS

SCALE: | SHEET NO. OF SHEETS | STA. 101+00.00 TO STA. 101+50.00

F.A.S RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1190	(125BY)BR	KNOX	94	75
		CONTRACT NO. 68087		
		ILLINOIS FED. AID PROJECT		



SURVEY
SURVEYED
PLOTTED
TEMPLATE
AREAS
AREAS CHECKED
NOTE BOOK
NO.

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	PLOT DATE = 10/17/2011	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

US 150 CROSS SECTIONS

SCALE: | SHEET NO. OF SHEETS | STA. 142+00.00 TO STA. 142+34.61

F.A.S RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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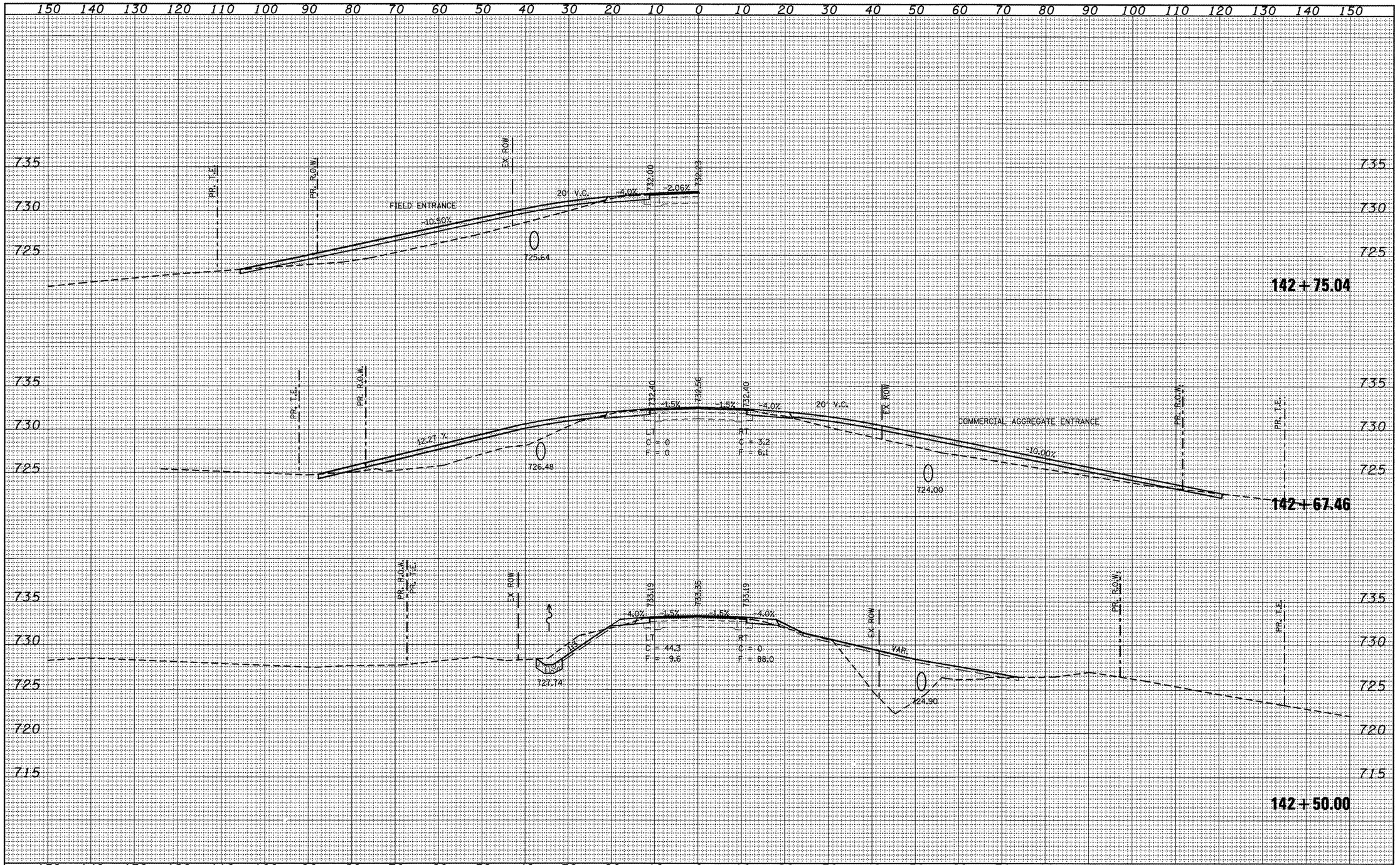
		CONTRACT NO. 68087		
		ILLINOIS FED. AID PROJECT		



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	PLOT DATE = 10/17/2011	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

US 150 CROSS SECTIONS

SCALE: | SHEET NO. OF SHEETS | STA. 142+50.00 TO STA. 142+75.04

F.A.S RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1190	(125BY)BR	KNOX	94	77
		CONTRACT NO. 68087		
		ILLINOIS FED. AID PROJECT		

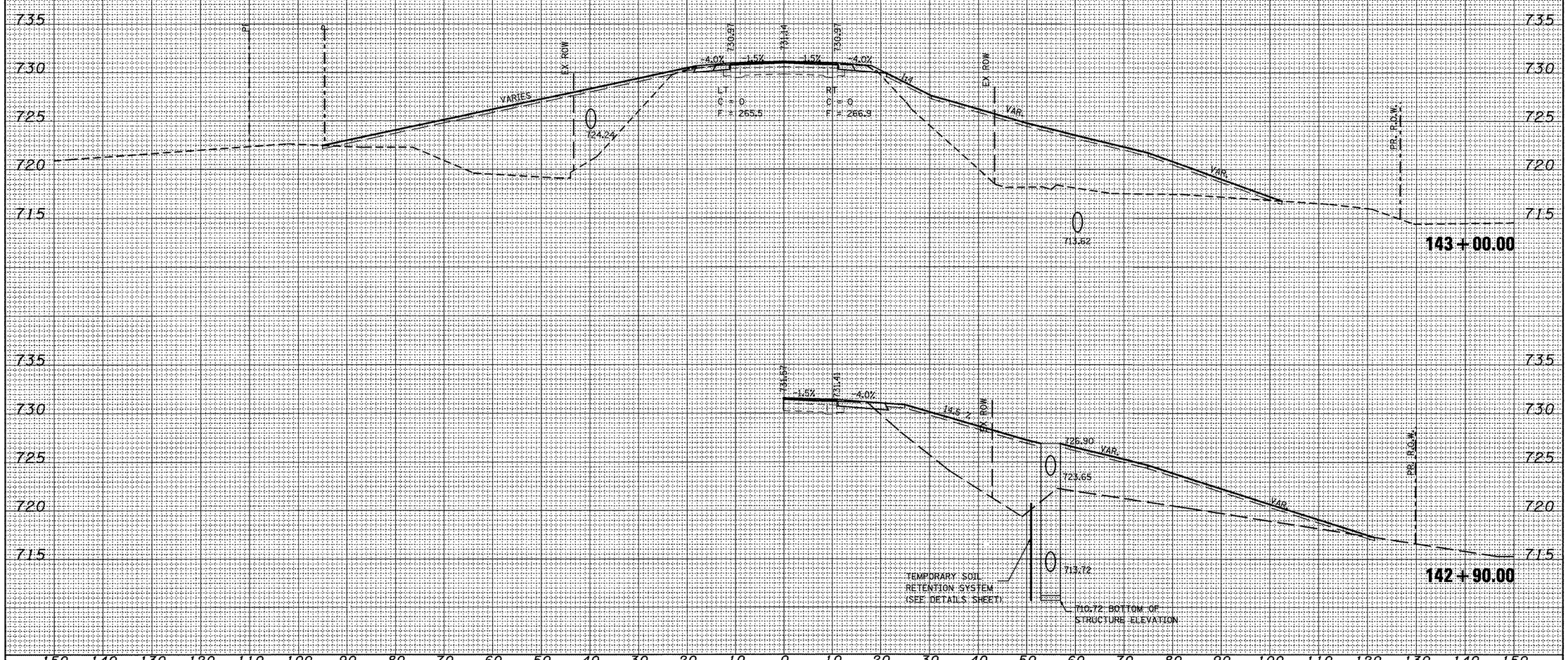
ORIGINAL SURVEY — NOTE BOOK — NO. — SURVEYED — PLOTTED — TEMPLATE — AREAS — AREAS CHECKED

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

SURVEY	SURVEYED
	PLOTTED
NOTE BOOK	TYPICAL RATE
	AREAS
NO.	AREAS CHECKED

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

735 730 725 720 715



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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

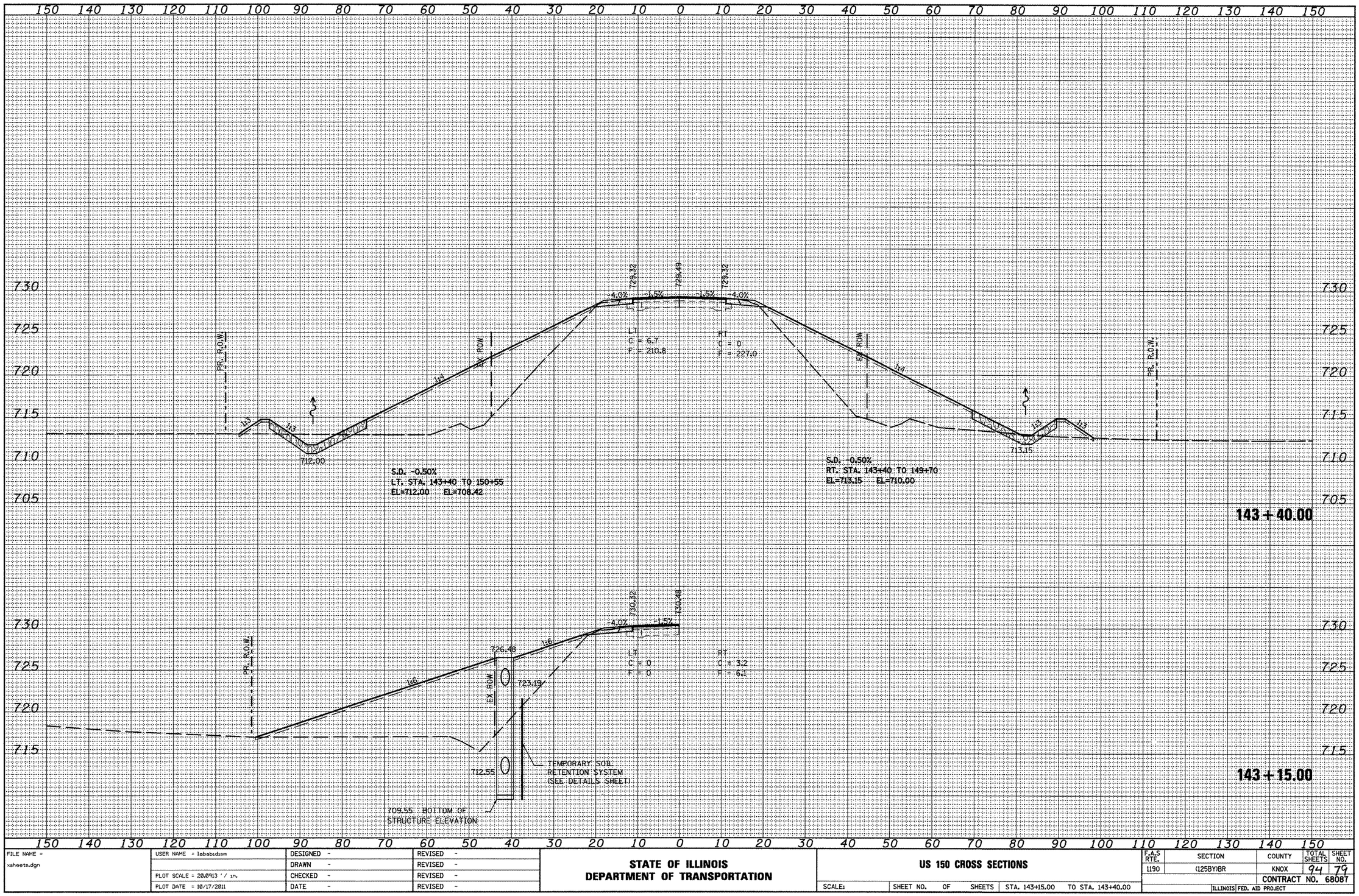
US 150 CROSS SECTIONS

SCALE: | SHEET NO. OF SHEETS | STA. 142+90.00 TO STA. 143+00.00

F.A.S RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1190	(125BY)BR	KNOX	94	78

CONTRACT NO. 68087

ILLINOIS FED. AID PROJECT



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US 150 CROSS SECTIONS

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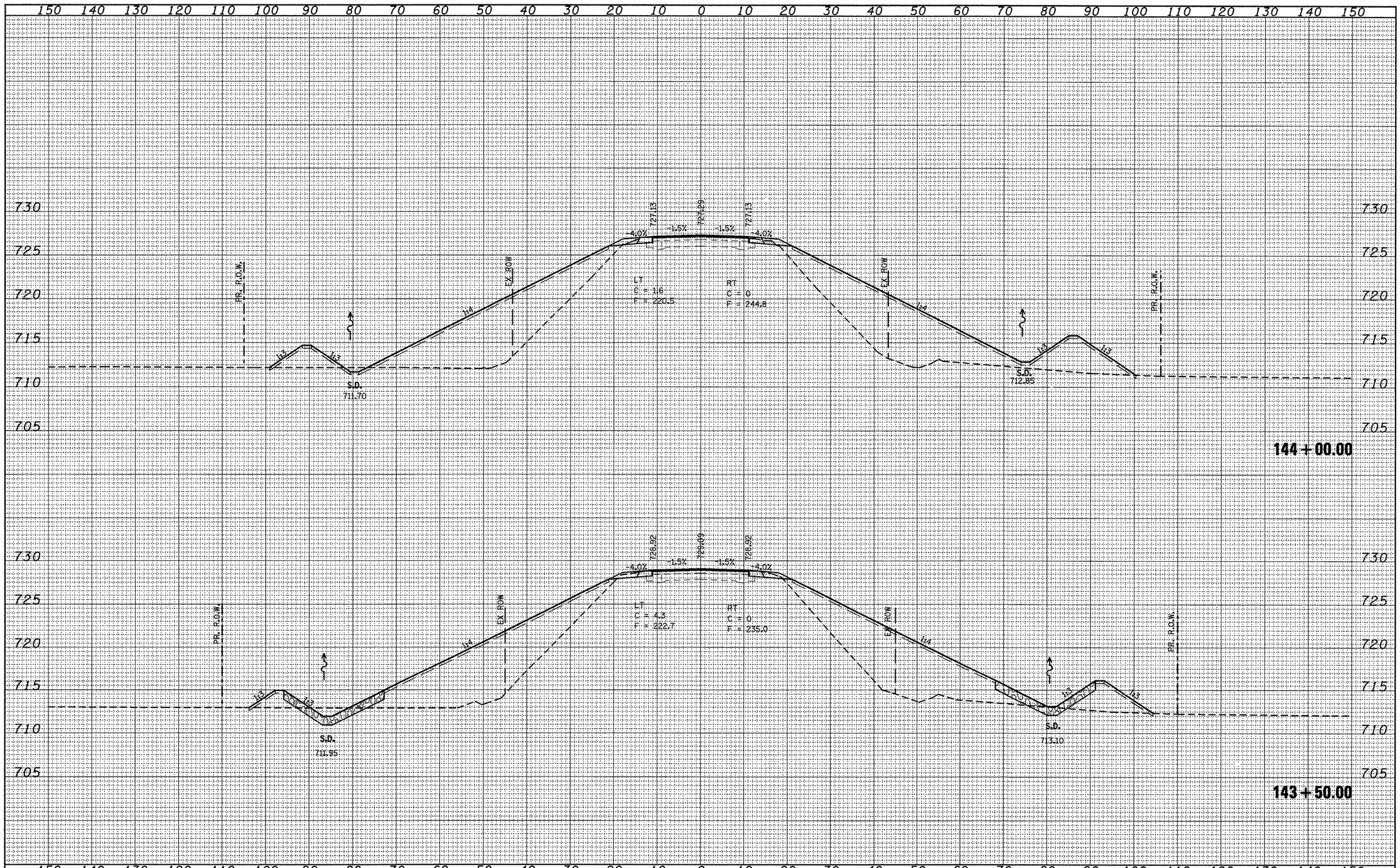
F.A.S RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1190	(125BY)BR	KNOX	94	79

CONTRACT NO. 68087

ILLINOIS FED. AID PROJECT



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	PLOT DATE = 10/17/2011	DATE -	REVISED -

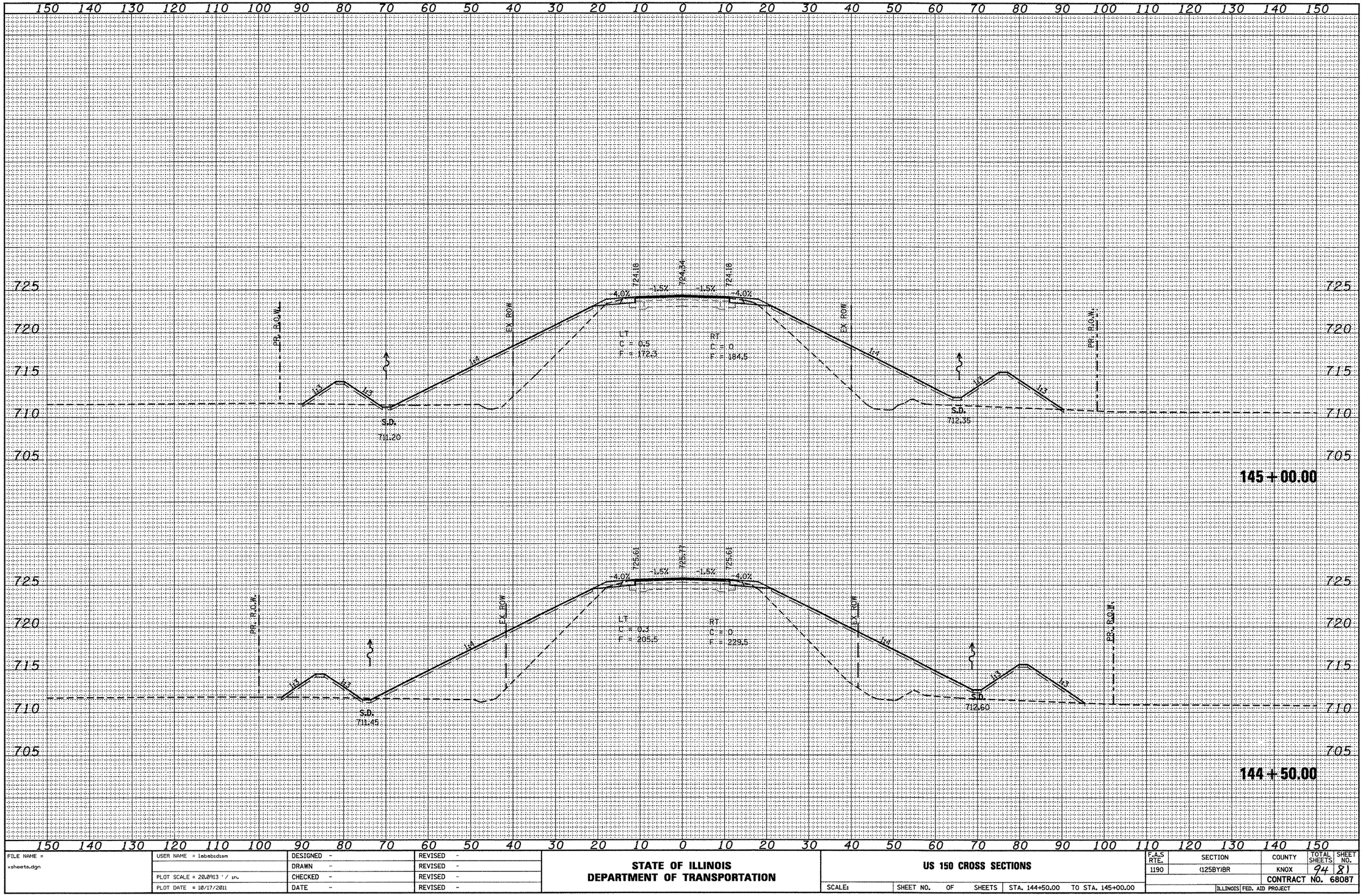
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

US 150 CROSS SECTIONS

SCALE: | SHEET NO. OF SHEETS | STA. 143+50.00 TO STA. 144+00.00

F.A.S RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1190	(125BY)BR	KNOX	94	80
		CONTRACT NO. 68087		
	ILLINOIS FED. AID PROJECT			

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



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	PLOT DATE = 10/17/2011	DATE -	REVISED -		

F.A.S RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1190	(125BY)BR	KNOX	94	81
		CONTRACT NO. 68087		
		ILLINOIS FED. AID PROJECT		

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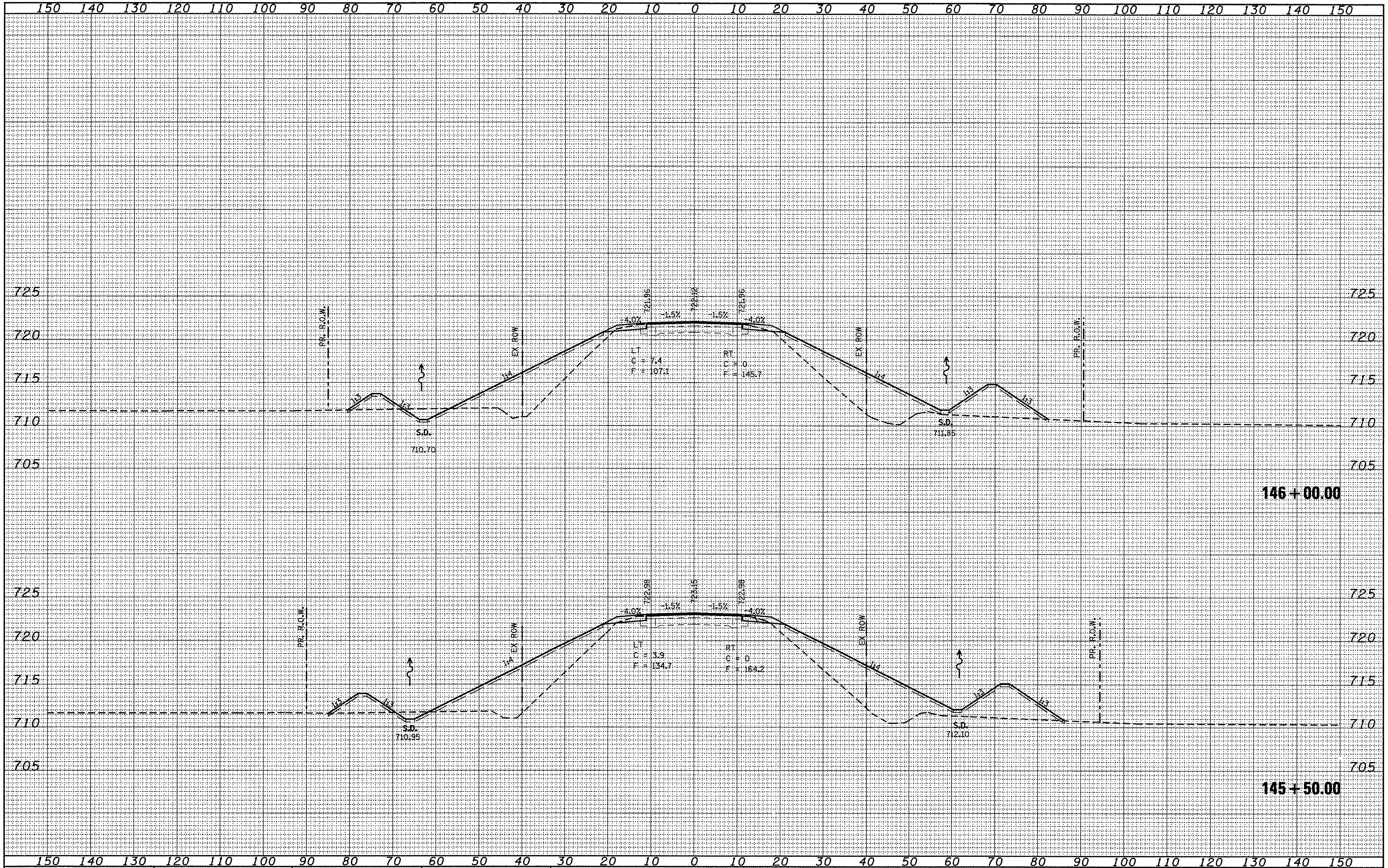

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		DRAWN -	REVISED -			1190	(125BY)BR	KNOX	94	82
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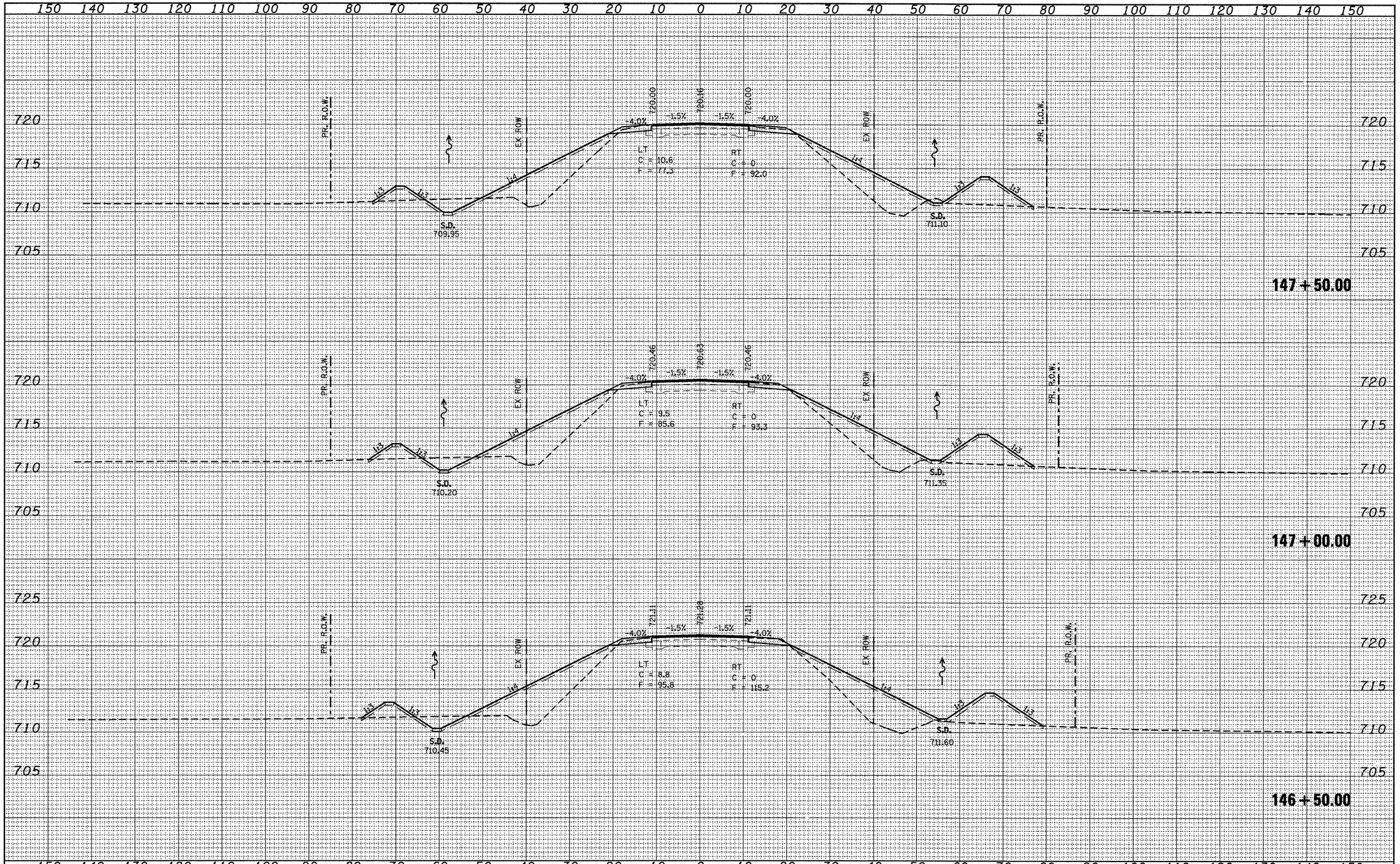
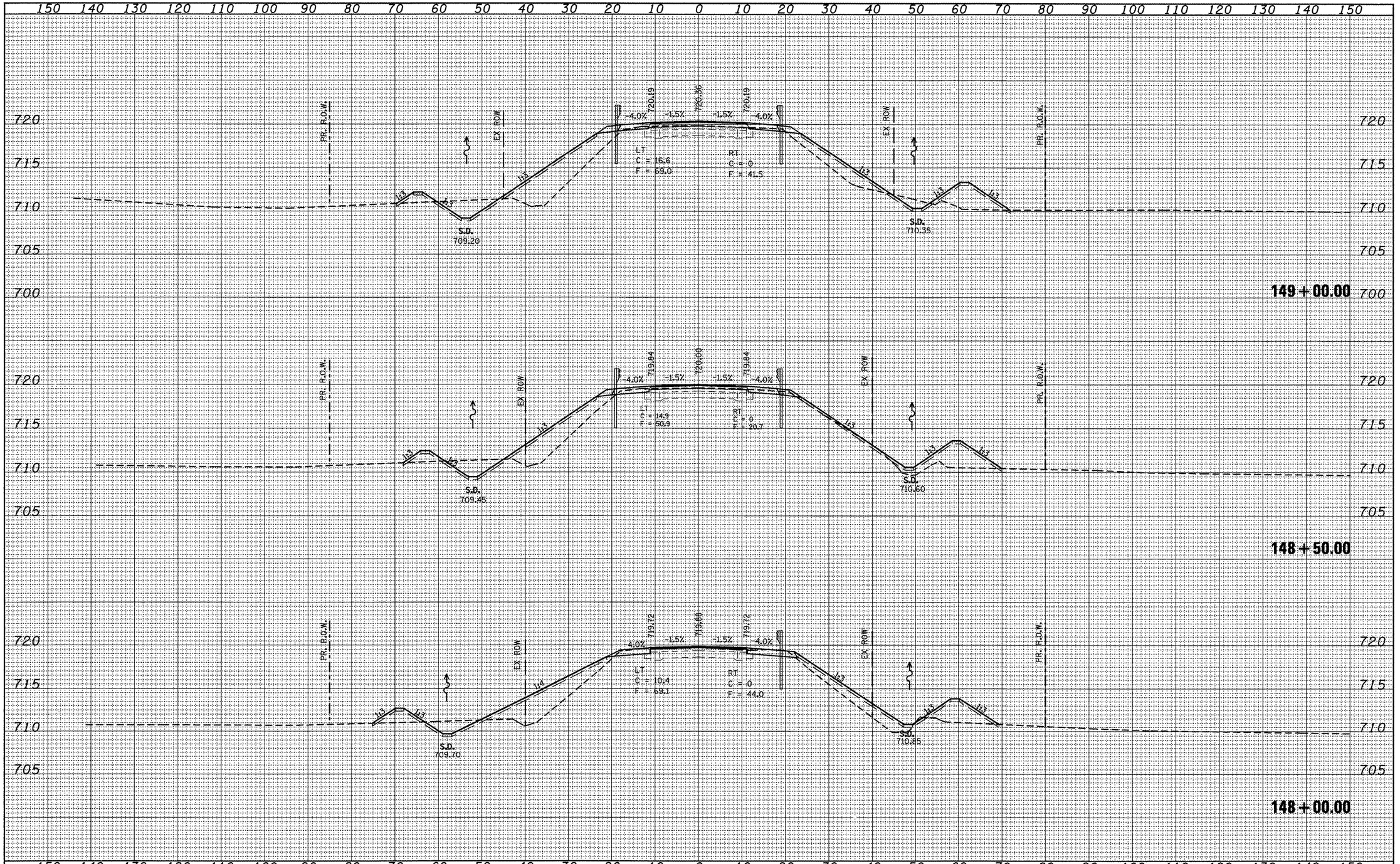


FILE NAME = xsheets.dgn	USER NAME = lebabsdsm	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	US 150 CROSS SECTIONS
		DRAWN -	REVISED -		
	PLOT SCALE = 20.0913 ' / in.	CHECKED -	REVISED -		
	PLOT DATE = 10/17/2011	DATE -	REVISED -		SCALE: SHEET NO. OF SHEETS STA. 146+50.00 TO STA. 147+50.00

F.A.S RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1190	(125BY)BR	KNOX	94	83
		CONTRACT NO. 68087		
		ILLINOIS FED. AID PROJECT		

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



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	PLOT DATE = 10/17/2011	DATE -	REVISED -

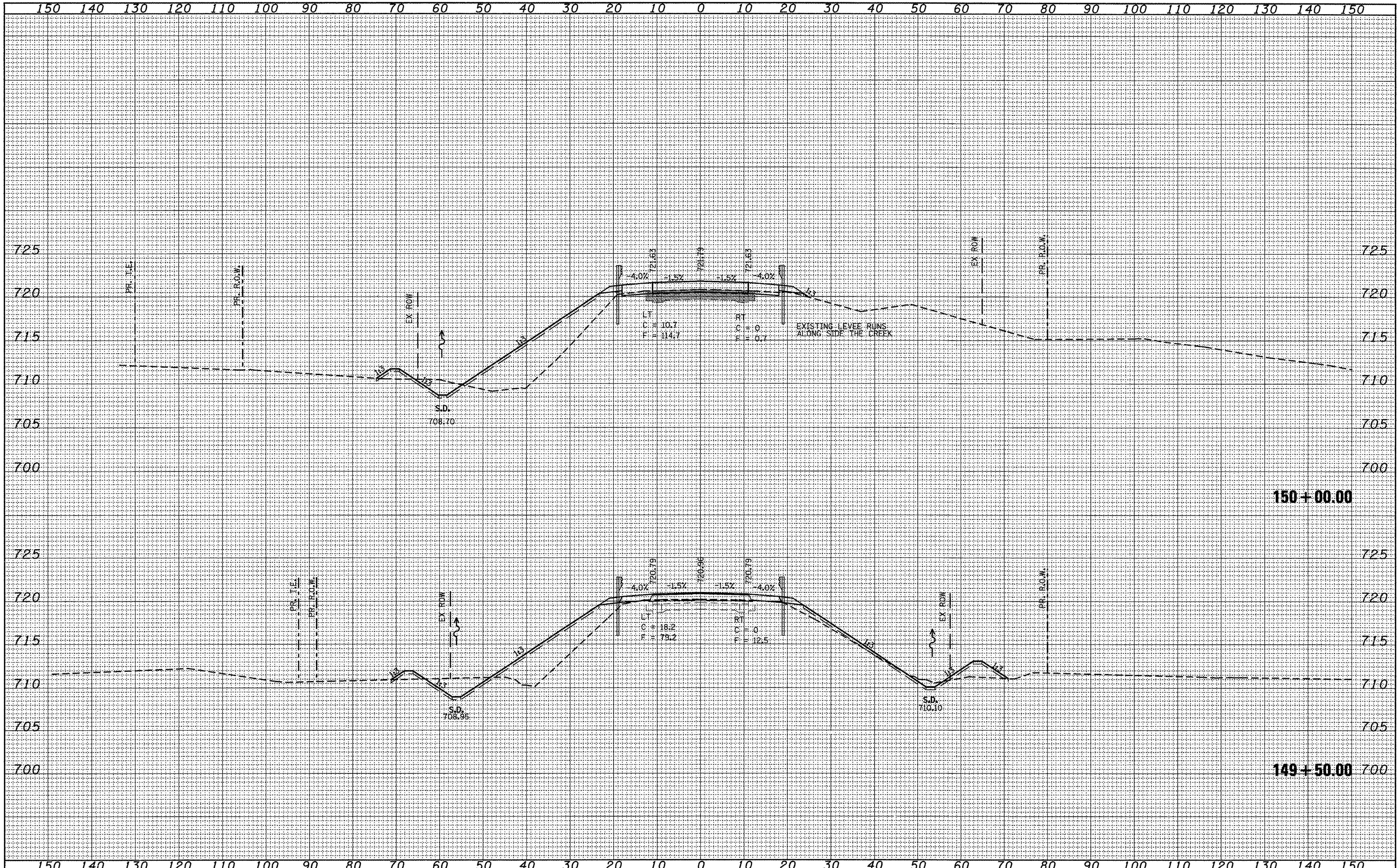
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

US 150 CROSS SECTIONS

SCALE: | SHEET NO. OF SHEETS | STA. 148+00.00 TO STA. 149+00.00

F.A.S RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1190	(125BY)BR	KNOX	94	84
		CONTRACT NO. 68087		
		ILLINOIS FED. AID PROJECT		

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



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		DRAWN -	REVISED -					
	PLOT SCALE = 20.0913 ' / in.	CHECKED -	REVISED -					
	PLOT DATE = 10/17/2011	DATE -	REVISED -		SCALE:	SHEET NO. OF SHEETS	STA. 149+50.00 TO STA. 150+00.00	

F.A.S RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1190	(125BY)BR	KNOX	94	85
		CONTRACT NO. 68087		
	ILLINOIS FED. AID PROJECT			

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

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

725 720 715 710 705

EX. ROW

724.16

Design H.W. Elev. 712.9
(50 yr)

EX. ROW

HENDERSON CREEK
BRIDGE OMISSION
STA. 150+15.00 TO 151+27.00

151 + 00.00

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

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

725 720 715 710 705 700

PRR. R.O.W.

EX. ROW

722.86

Design H.W. Elev. 712.9
(50 yr)

EX. ROW

PRR. R.O.W.

HENDERSON CREEK
BRIDGE OMISSION
STA. 150+15.00 TO 151+27.00

150 + 50.00

FILE NAME = xsheets.dgn	USER NAME = lababbidsm	DESIGNED -	REVISED -
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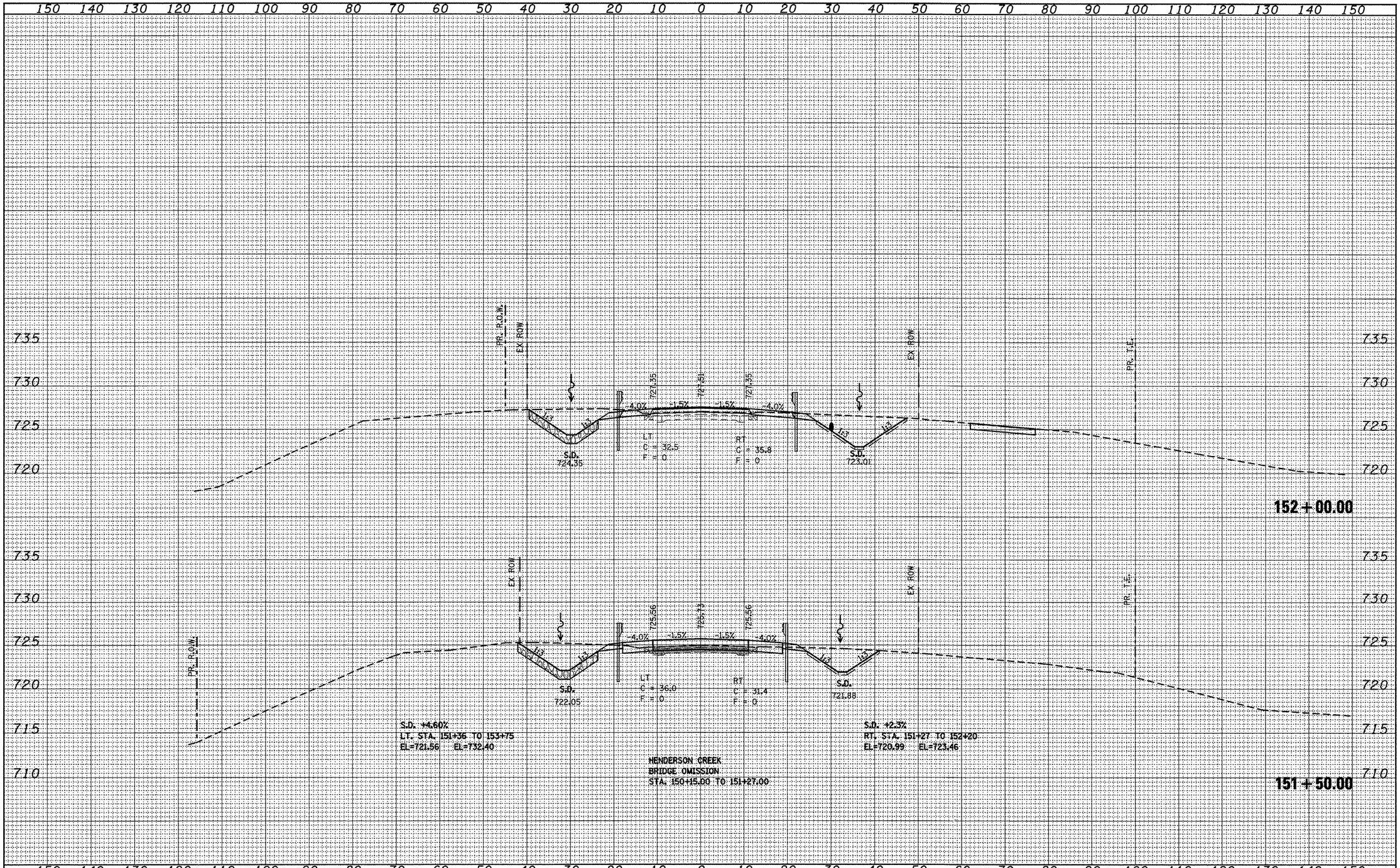
	PLOT SCALE = 20.0913 ' / in.	CHECKED -	REVISED -
	PLOT DATE = 10/17/2011	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

US 150 CROSS SECTIONS

SCALE: | SHEET NO. OF SHEETS | STA. 150+50.00 TO STA. 151+00.00

F.A.S RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1190	(125BY)BR	KNOX	94	86
		CONTRACT NO. 68087		
		ILLINOIS FED. AID PROJECT		



SURVEYED
PLOTTED
TEMPLATE
AREAS
AREAS CHECKED
SURVEY
NOTE BOOK
NO.

FILE NAME = xsheets.dgn	USER NAME = lababidsm	DESIGNED -	REVISED -
		DRAWN -	REVISED -
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	PLOT DATE = 10/17/2011	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

US 150 CROSS SECTIONS

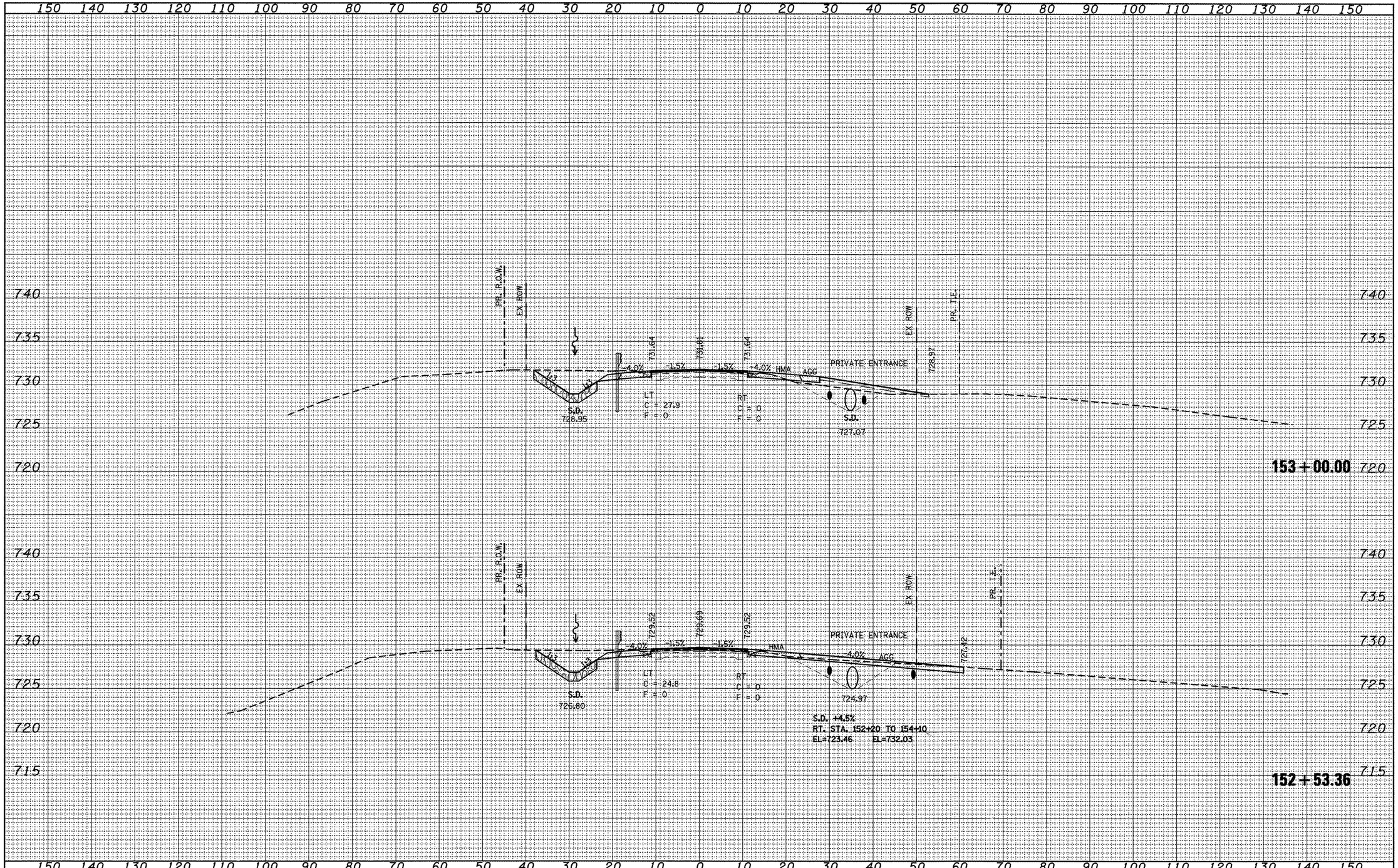
SCALE: | SHEET NO. OF SHEETS | STA. 151+50.00 TO STA. 152+00.00

F.A.S RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1190	(125BY)BR	KNOX	94	87

CONTRACT NO. 68087

ILLINOIS FED. AID PROJECT

SURVEYED	
PLOTTED	
TEMPLATE	
NOTE BOOK	
AREAS	
NO.	AREAS CHECKED



SURVEYED	
PLOTTED	
TEMPLATE	
NOTE BOOK	
AREAS	
NO.	AREAS CHECKED

FILE NAME = xsheets.dgn	USER NAME = labbidism	DESIGNED -	REVISED -
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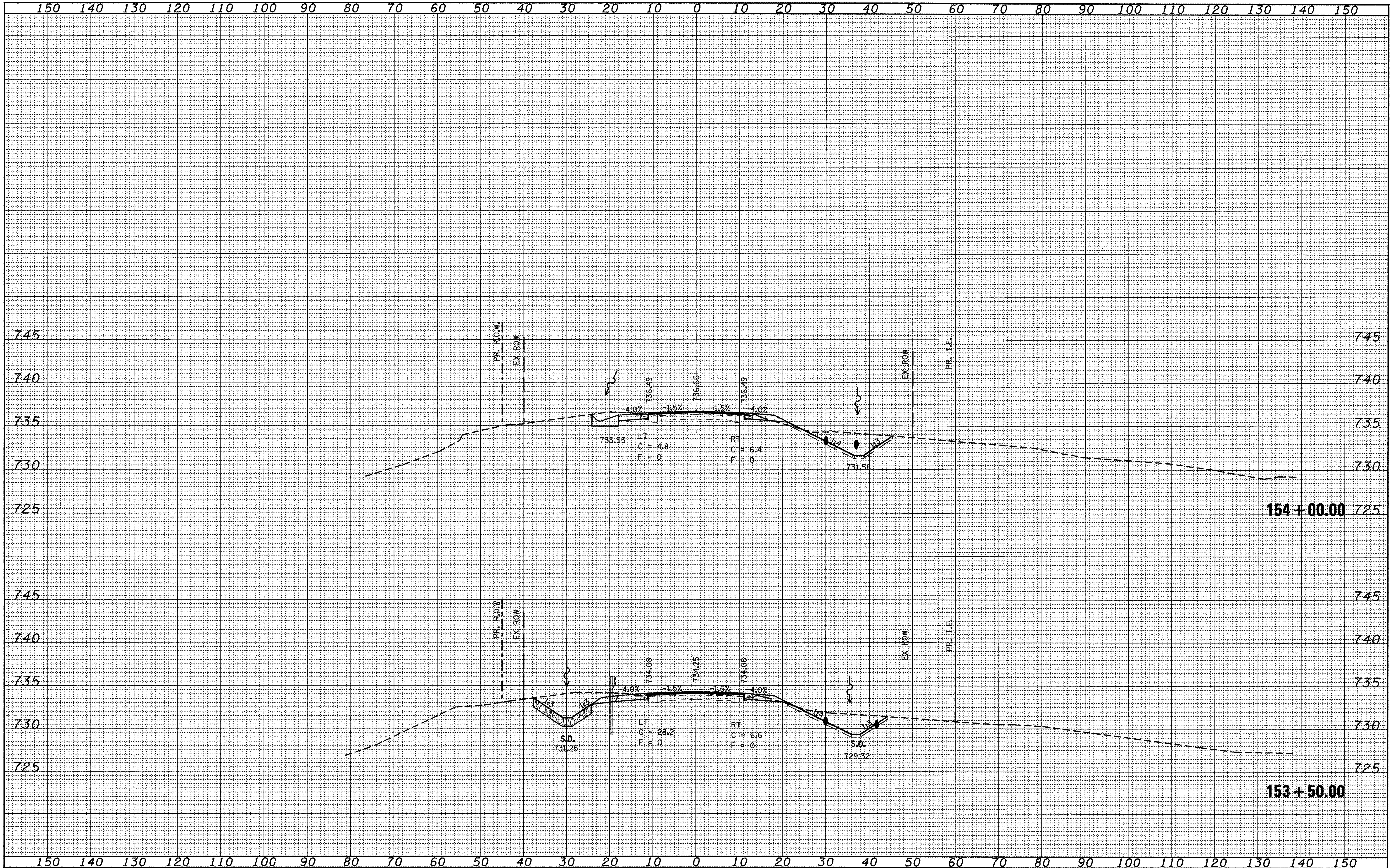
	PLOT DATE = 10/17/2011	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

US 150 CROSS SECTIONS

SCALE: | SHEET NO. OF SHEETS | STA. 152+53.36 TO STA. 153+00.00

F.A.S RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1190	(125BY)BR	KNOX	94	88
		CONTRACT NO. 68087		
		ILLINOIS FED. AID PROJECT		



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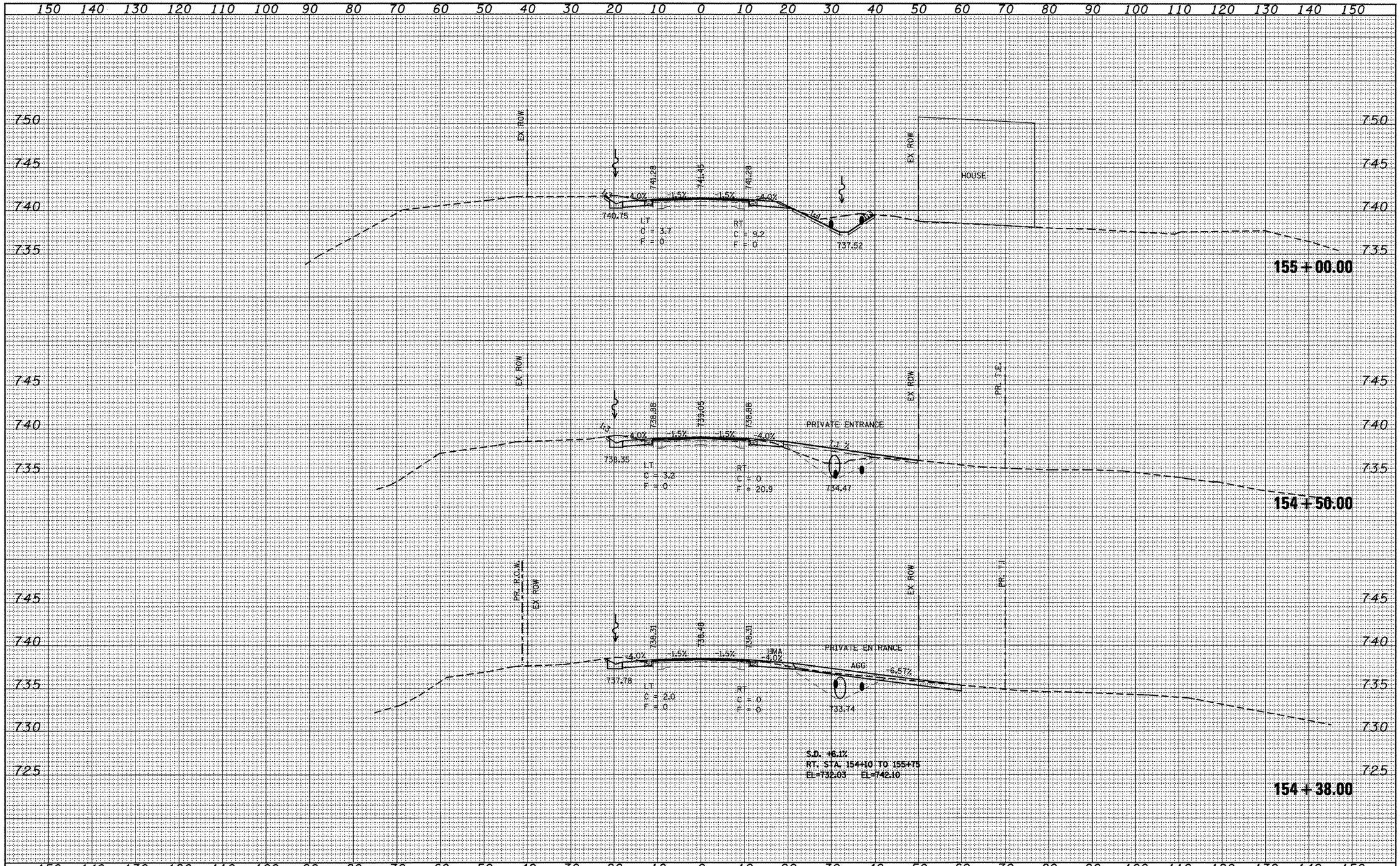
		DRAWN -	REVISED -			
	PLOT SCALE = 20.0913 ' / in.	CHECKED -	REVISED -			CONTRACT NO. 68087
	PLOT DATE = 10/17/2011	DATE -	REVISED -		SCALE: SHEET NO. OF SHEETS STA. 153+50.00 TO STA. 154+00.00	ILLINOIS FED. AID PROJECT

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

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



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

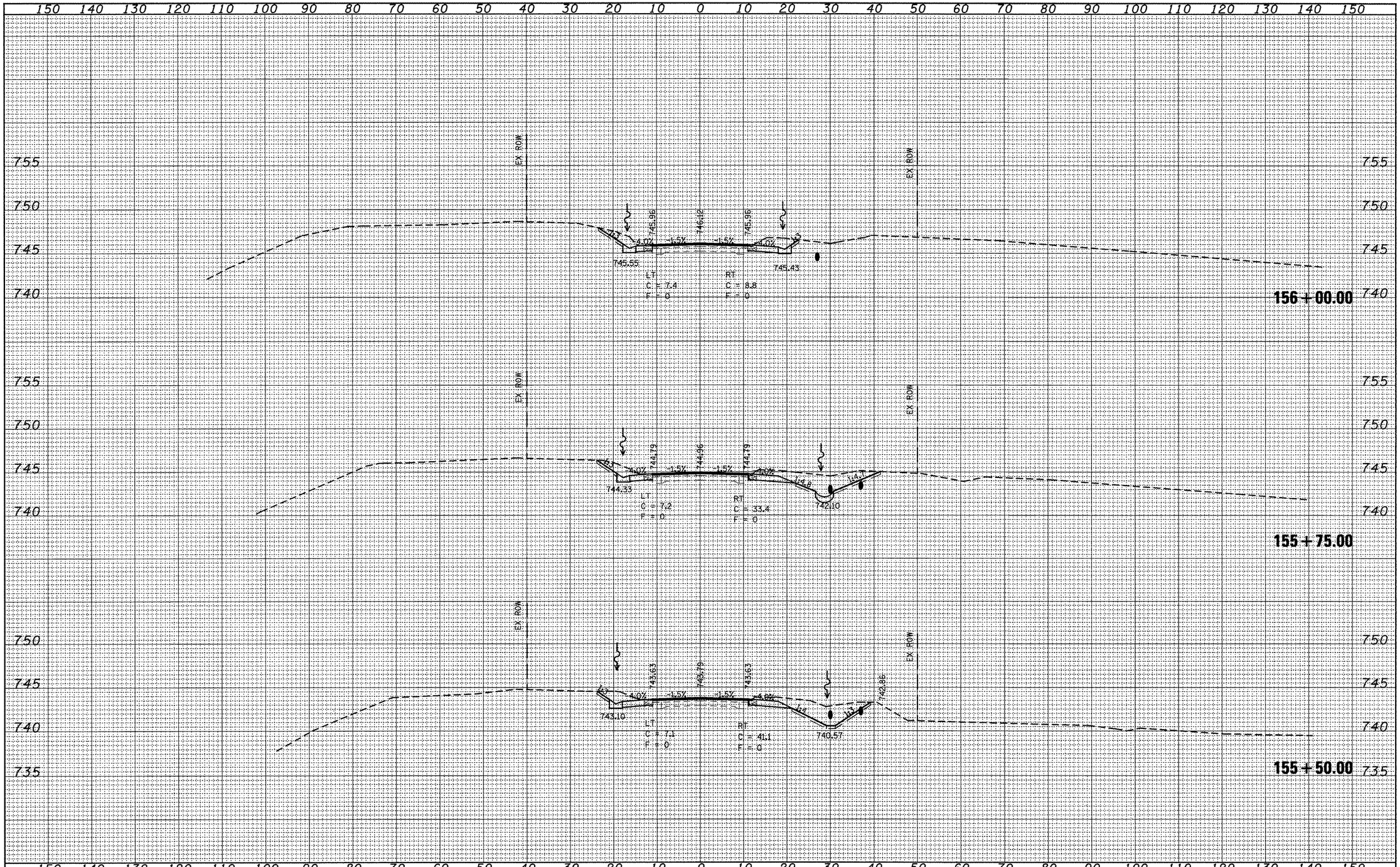
FILE NAME = xsheets.dgn	USER NAME = lababidism	DESIGNED -	REVISED -
		DRAWN -	REVISED -
	PLOT SCALE = 20.0913 ' / in.	CHECKED -	REVISED -
	PLOT DATE = 10/17/2011	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

US 150 CROSS SECTIONS

SCALE: | SHEET NO. OF SHEETS | STA. 154+38.00 TO STA. 155+00.00

F.A.S RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1190	(125BY)BR	KNOX	94	90
		CONTRACT NO. 68087		
		ILLINOIS FED. AID PROJECT		



FILE NAME = xsheets.dgn	USER NAME = lababdism	DESIGNED -	REVISED -
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	PLOT DATE = 10/17/2011	DATE -	REVISED -

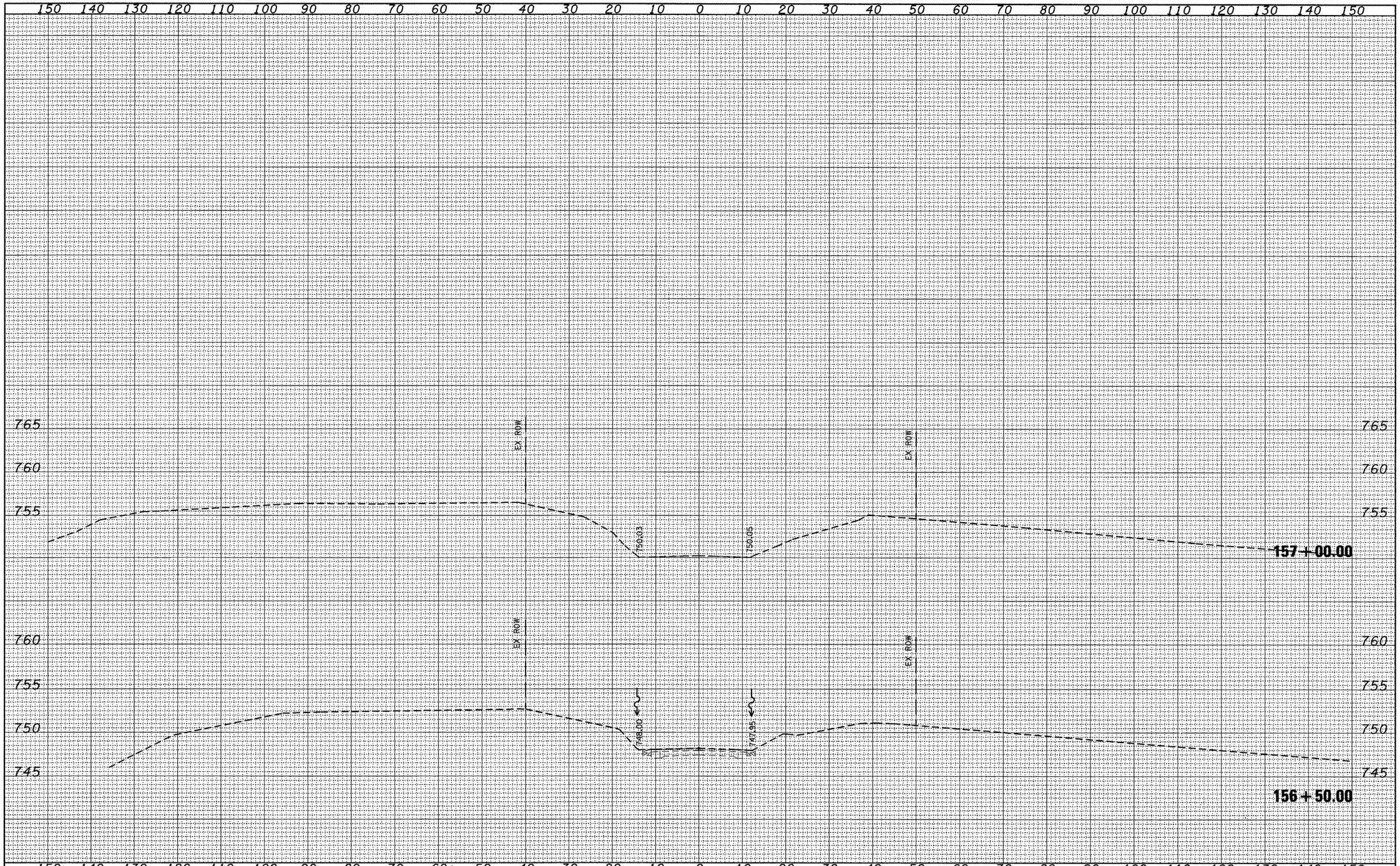
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

US 150 CROSS SECTIONS

SCALE: | SHEET NO. OF SHEETS | STA. 155+50.00 TO STA. 156+00.00

F.A.S RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1190	(125BY)BR	KNOX	94	91
		CONTRACT NO. 68087		
		ILLINOIS FED. AID PROJECT		

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



SURVEY
SURVEYED
PLOTTED
TRACE
AREAS
AREAS CHECKED
SURVEY
NOTE BOOK
NO.

FILE NAME = xsheets.dgn	USER NAME = lebabsdsm	DESIGNED -	REVISED -
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	PLOT DATE = 10/17/2011	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

US 150 CROSS SECTIONS

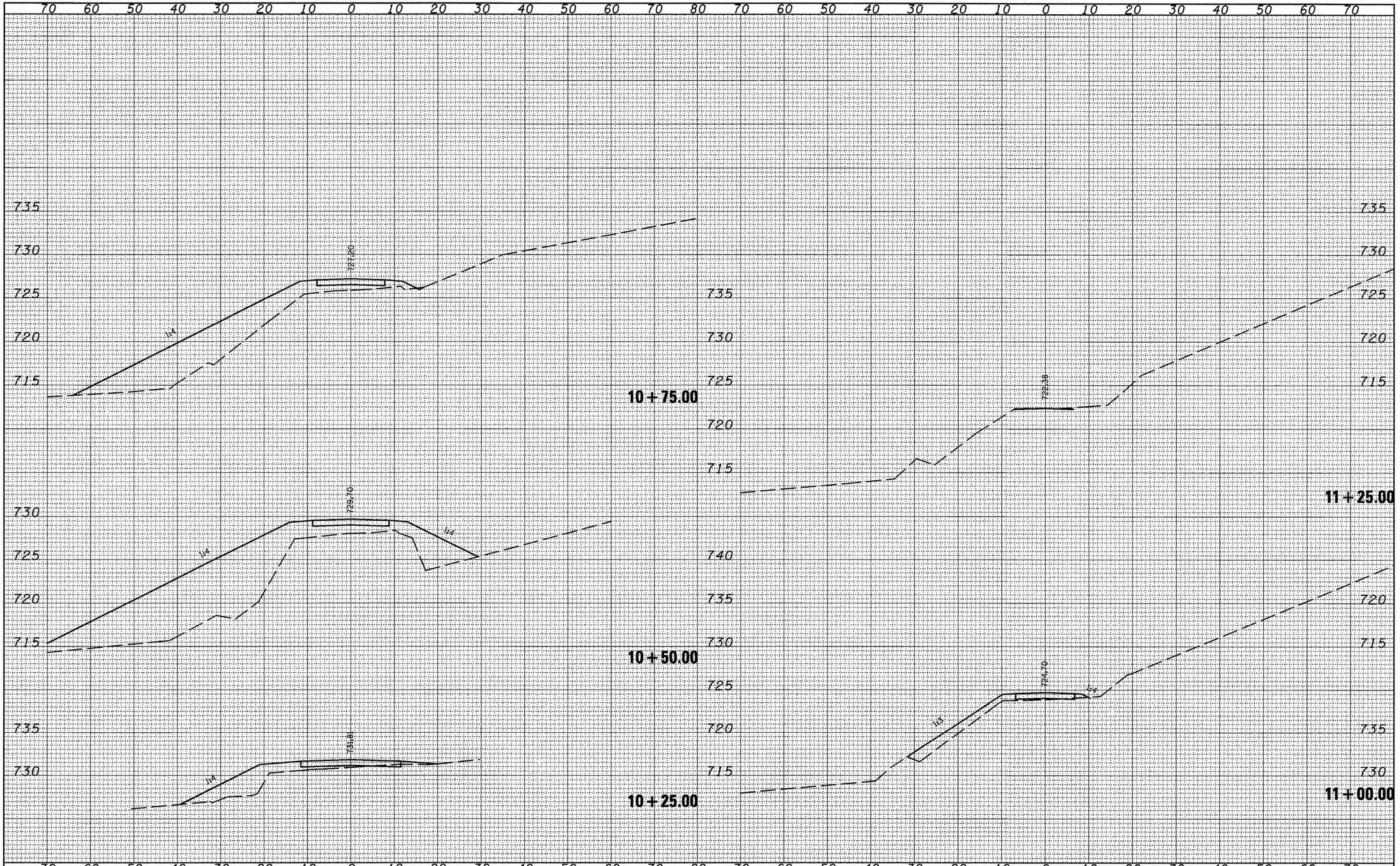
SCALE: | SHEET NO. OF SHEETS | STA. 156+50.00 | TO STA. 157+00.00

F.A.S RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1190	(125BY)BR	KNOX	94	92

CONTRACT NO. 68087

ILLINOIS FED. AID PROJECT

SURVEYED	
PLOTTED	
TRACED	
AREAS	
NOTE BOOK	AREAS CHECKED
NO.	



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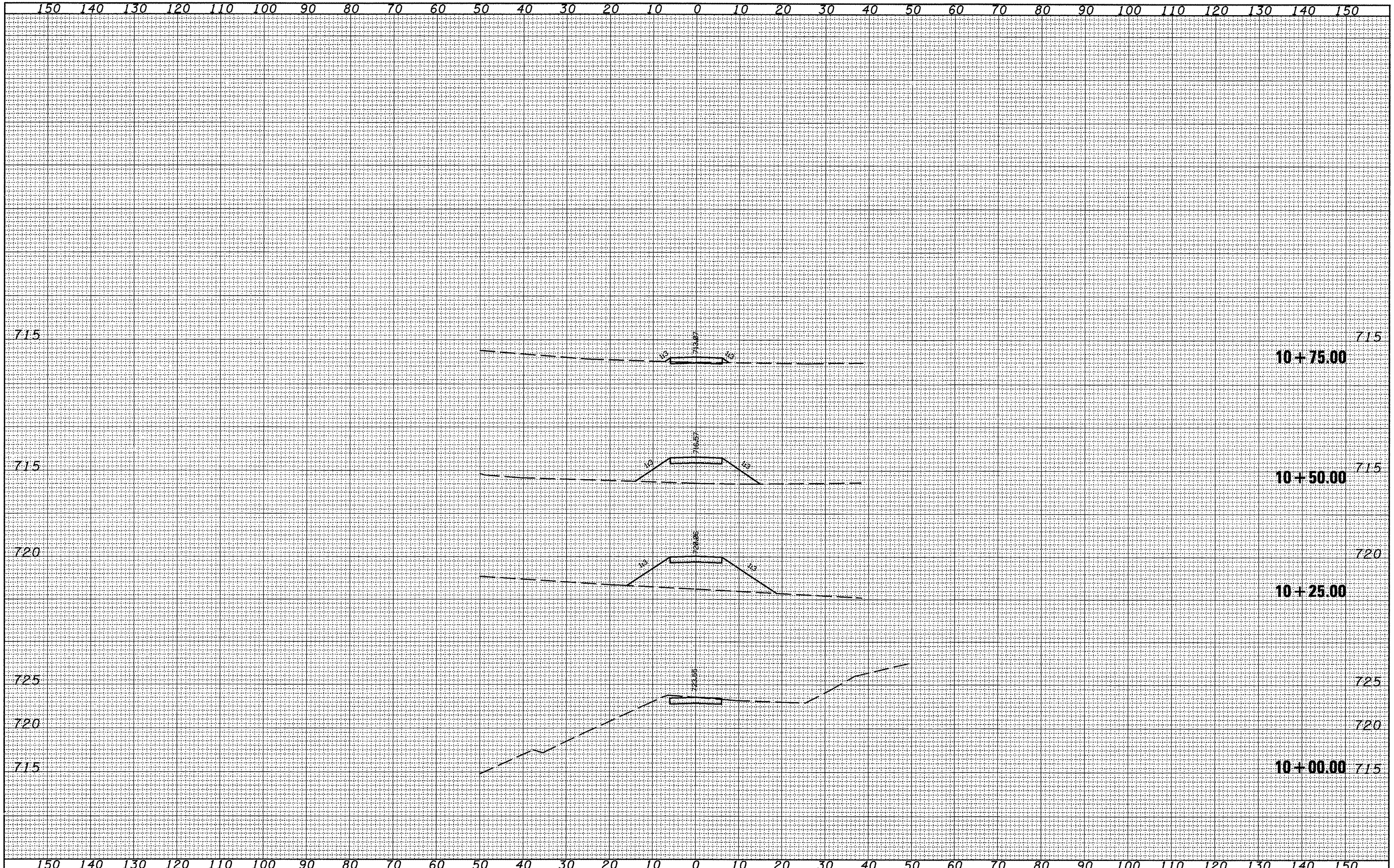
	PLOT SCALE = 20.0000 ' / in.	CHECKED -	REVISED -
	PLOT DATE = 10/17/2011	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GALESBURG MOTORCYCLE CLUB ENTRANCE

SCALE: | SHEET NO. OF SHEETS | STA. 10+25.00 | TO STA. 11+25.00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	(125BY)BR	KNOX	94	93
		CONTRACT NO. 68087		
	ILLINOIS FED. AID PROJECT			



FILE NAME = xsheets.dgn	USER NAME = lababidism	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	FIELD ENTRANCE	F.A. RTE.	SECTION (125BY)BR	COUNTY	TOTAL SHEETS 94	SHEET NO. 94
		DRAWN -	REVISED -							
	PLOT SCALE = 20.0000 ' / in.	CHECKED -	REVISED -		SCALE:	SHEET NO. OF SHEETS	STA. 10+00.00 TO STA. 10+75.00	CONTRACT NO.		
	PLOT DATE = 10/17/2011	DATE -	REVISED -				ILLINOIS FED. AID PROJECT			