

10/25/2005
c:\projects\94434\04599p.d

CONTRACT NO. 94434

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
328	109B-1	WHITE	26	1

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

**PROPOSED
HIGHWAY PLANS**

FAP ROUTE 328 (US RTE 45)
SECTION 109B-1
PROJECT BR-328 (016)
WHITE COUNTY

FOR INDEX OF SHEETS, SEE SHEET NO. 2

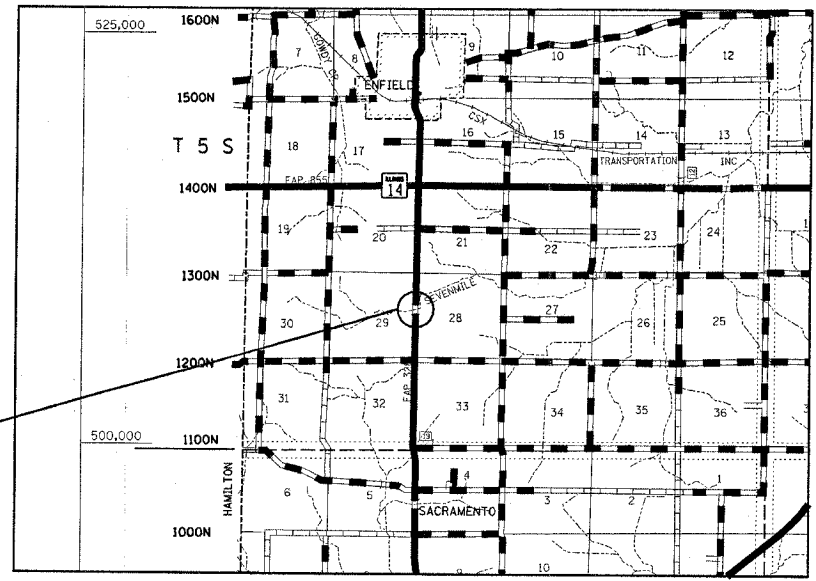
D-97-045-99



LOCATION OF SECTION INDICATED THUS: - ■ -

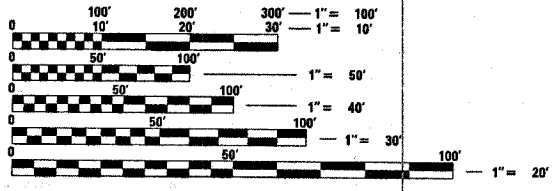
C-97-052-04

R 8 E



FAP ROUTE 328 (US 45)
SECTION 109B-1
STATION 74+70.00
PROPOSED STR# 097-2012
WHITE COUNTY

ADT (1600) - 2003



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

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

SUBMITTED Oct 25 20 05
Christina M. Brand
DEPUTY DIRECTOR OF HIGHWAYS, REGION ENGINEER

December 9, 20 05
Mike Fine
ENGINEER OF DESIGN AND ENVIRONMENT

December 9, 20 05
Eric Horn
DEPUTY DIRECTOR OF HIGHWAYS, CHIEF ENGINEER

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

GROSS LENGTH = 740 FEET = 0.14 MILES
NET LENGTH = 575 FEET = 0.11 MILES

PROJECT ENGINEER : BILL STANLEY
SQUAD LEADER : MYRA OLTMAN
DESIGNER : MYRA OLTMAN
TELEPHONE : 217/342-3951 EX 314

CONTRACT NO. 94434 TOWNSHIP : INDIAN

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
328	109B-1	WHITE	26	2
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	

GENERAL NOTES

THIS SECTION SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE PLANS; THE "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION" ADOPTED JANUARY 1, 2002; THE "SUPPLEMENTAL SPECIFICATIONS AND RECURRING SPECIAL PROVISIONS" ADOPTED MARCH 1, 2005; AND THE SPECIAL PROVISIONS INCLUDED IN THE PROPOSAL.

THE WORK INCLUDED IN SECTION 109B-1 CONSISTS OF THE COMPLETE REMOVAL AND REPLACEMENT OF THE EXISTING STRUCTURE WITH A NEW DOUBLE BOX CULVERT, BITUMINOUS CONCRETE PAVEMENT, GUARDRAIL AND ANY OTHER INCIDENTAL WORK NECESSARY TO COMPLETE THIS SECTION. THE WORK SHALL BE DONE UTILIZING STAGE CONSTRUCTION AND TRAFFIC SIGNALS.

PRIOR TO THE PLACEMENT OF THE TRAFFIC CONTROL STANDARD 701321, TEMPORARY GUARDRAIL SHALL BE PLACED ON STAGE 1 TRAFFIC SIDE OF THE STRUCTURE WITH TEMPORARY TRAFFIC BARRIER TERMINAL TYPE 10 AND TRAFFIC BARRIER TERMINAL TYPE 1, SPECIAL (TANGENT) ON THE SOUTHWEST CORNER OF THE STRUCTURE AND TEMPORARY GUARDRAIL SHALL BE PLACED ON THE NORTHWEST CORNER AS SHOWN ON THE STAGE ONE CONSTRUCTION PLAN SHEET. THIS SHALL BE PAID FOR AS TEMPORARY GUARDRAIL, FEET, TEMPORARY TRAFFIC BARRIER TERMINAL TYPE 10, EACH AND TRAFFIC BARRIER TERMINAL TYPE 1, SPECIAL (TANGENT), EACH. DURING STAGE 2 CONSTRUCTION, THE END SECTION SHALL BE REMOVED AND RE-ERECTED AT A NEW LOCATION AS NOTED ON THE PLANS. THIS WILL BE PAID FOR AS REMOVE AND RE-ERECT TRAFFIC BARRIER TERMINAL, TYPE 1, SPECIAL (TANGENT), EACH.

A STOP SIGN AND A NO LEFT TURN SIGN WILL BE PROVIDED BY THE DEPARTMENT FOR PLACEMENT BY THE CONTRACTOR AT THE FIELD ENTRANCE RIGHT STATION 76+45.

THE COST OF TEMPORARY PAVEMENT MARKING IS INCLUDED IN THE COST OF THE STANDARD 701321. NO ADDITIONAL COMPENSATION WILL BE ALLOWED AS STATED IN ARTICLE 703.07 OF THE STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION. AN ESTIMATED QUANTITY OF 1480 FOOT FOR STAGE 1 AND 1480 FOOT FOR STAGE 2 HAS BEEN CALCULATED.

TEMPORARY CONCRETE BARRIERS ARE LOCATED AT THE MCLEANSBORO I.D.O.T. MAINTENANCE YARD LOCATED 7 MILE WEST OF MCLEANSBORO ON ILLINOIS ROUTE 14. A MINIMUM OF 48 HOURS NOTICE WILL BE REQUIRED TO ARRANGE PICKUP AND RETURN OF THE BARRIERS. STATE MAINTENANCE FORCES WILL NOT LOAD OR UNLOAD THE BARRIERS.

BASE COURSE WIDENING SHALL REMAIN IN PLACE. THE WIDENING SHALL, AT THE CONTRACTOR'S OPTION BE CONSTRUCTED OF EITHER PORTLAND CEMENT CONCRETE 8" THICK, OR BITUMINOUS CONCRETE, 10" THICK. TO CONSTRUCT STAGE 2 PORTION OF THE BOX CULVERT, A PORTION OF THE BASE COURSE WIDENING WILL BE REMOVED. AT THE COMPLETION OF THE CONSTRUCTION OF THE BOX CULVERT, THIS BASE COURSE WIDENING WILL BE RECONSTRUCTED.

PAINT PAVEMENT MARKING LINE - 4" SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE STANDARDS, AS SHOWN ON THE TYPICAL SECTIONS, AND AS DETERMINED BY THE ENGINEER. A TOTAL QUANTITY CALCULATED CONSISTS OF 190 FEET OF YELLOW AND 1480 FEET OF WHITE.

ALL EXCAVATION REQUIRED BEHIND EXISTING ABUTMENTS, FOR BASE COURSE WIDENING AND SHOULDERS SHALL BE PAID FOR AT THE CONTRACT UNIT PRICE PER CUBIC YARD FOR EARTH EXCAVATION.

THE TREES LISTED IN THE TREE SCHEDULE SHALL BE APPROVED AND HAND PLANTED AT LOCATIONS AS DIRECTED BY THE ROADSIDE TECHNICIAN, TOM WILSON, (217)-342-8270. THE CONTRACTOR SHALL GIVE TWO WEEKS NOTICE TO SCHEDULE A TIME FOR THE LOCATIONS TO BE STAKED AND ON THE SAME DAY THE TREES SHALL BE DELIVERED TO THE JOBSITE FOR ACCEPTANCE OF THE PLANTING MATERIAL BY THE ROADSIDE TECHNICIAN.

IN ACCORDANCE WITH THE SUPPLEMENTAL SPECIFICATIONS, TEMPORARY OR PERMANENT SEEDING, MULCH, AND DITCH CHECKS SHALL BE CONSTRUCTED IMMEDIATELY UPON COMPLETION OF THE EARTHWORK PAY ITEMS ON EACH SIDE OF THE ROADWAY. TEMPORARY DITCH CHECKS MAY BE REQUIRED BEFORE COMPLETION OF THE PAY ITEMS FOR EACH SIDE AT THE DIRECTION OF THE ENGINEER.

THE FOLLOWING MIXTURE REQUIREMENTS ARE APPLICABLE FOR THIS PROJECT:

MIXTURE USE: INCIDENTAL RESURFACING
 APPLICATION: BITUMINOUS CONCRETE SURFACE COURSE, SUPERPAVE, MIX "C", N50
 PG GRADE: PG 64-22
 RAP %: 15%
 DESIGN AIR VOIDS: 4.0% NDESIGN = 50
 MIXTURE COMPOSITION: IL-9.5
 FRICTION AGGREGATE: MIXTURE C

MIXTURE USE: BINDER COURSE
 APPLICATION: BITUMINOUS CONCRETE BINDER COURSE, SUPERPAVE, IL-19.0 N70
 PG GRADE: PG 64-22
 RAP %: 15%
 DESIGN AIR VOIDS: 4.0% NDESIGN = 70
 MIXTURE COMPOSITION: IL-19.0
 FRICTION AGGREGATE: N/A

MIXTURE USE: SURFACE COURSE
 APPLICATION: BITUMINOUS CONCRETE SURFACE COURSE, SUPERPAVE, MIXTURE "C", N70
 PG GRADE: PG 64-22
 RAP %: 15%
 DESIGN AIR VOIDS: 4.0% NDESIGN = 70
 MIXTURE COMPOSITION: IL-9.5
 FRICTION AGGREGATE: MIXTURE C

THE LOCATIONS AND/OR DEPTHS OF UNDERGROUND UTILITIES SHOWN HAVE BEEN TAKEN FROM INFORMATION FURNISHED BY THE UTILITY OWNERS AND MUST BE CONSIDERED APPROXIMATE. FIELD MARKINGS OF FACILITIES IN CRITICAL AREAS MAY BE OBTAINED BY PROVIDING A MINIMUM OF 96 HOURS ADVANCE NOTICE THROUGH THE J.U.L.I.E. SYSTEM BY CALLING 800-892-0123.

INDEX OF SHEETS

SHEET NO.	ITEM
1	TITLE SHEET
2	INDEX OF SHEETS & GENERAL NOTES
3	SUMMARY OF QUANTITIES
4	TYPICAL SECTION DETAILS AND DETECTOR LOOPS
5	BENCHMARKS AND ALIGNMENT TIES
6	SCHEDULE OF QUANTITIES, SECTION 109B-1
7	PLANS & PROFILE
8	STAGE CONSTRUCTION I
9	STAGE CONSTRUCTION II
10-21	BRIDGE PLANS
22	EROSION CONTROL DETAILS
23-26	CROSS SECTIONS

THE FOLLOWING STANDARDS ARE A PART OF THESE PLANS AND ARE INCLUDED FOLLOWING SHEET NUMBER 26.

STD NO.	DESCRIPTION
000001-04	STANDARD SYMBOLS, ABBREVIATIONS, AND PATTERNS
001001	AREAS OF REINFORCEMENT BARS
280001-02	TEMPORARY EROSION CONTROL SYSTEMS
503001	CONCRETE PARAPET SLIP - FORMING OPTION
515001	NAME PLATE FOR BRIDGES
630001-05	STEEL PLATE BEAM GUARDRAIL
630101-05	GUARDRAIL MOUNTED ON EXISTING CULVERTS
630201-03	PCC/BITUMINOUS STABILIZATION AT STEEL PLATE BEAM GUARDRAIL
630301-03	SHOULDERWIDENING FOR TYPE 1 (SPECIAL) GUARDRAIL TERMINALS
631046-02	TRAFFIC BARRIER TERMINAL, TYPE 10
635006-02	REFLECTOR AND TERMINAL MARKER PLACEMENT
635011-01	REFLECTOR MARKER AND MOUNTING DETAILS
701001-01	OFF ROAD OPERATIONS, 2L, 2W, MORE THAN 15' AWAY
701006-01	OFF ROAD OPERATIONS, 2L, 2W, 15' TO 24' FROM PAVEMENT EDGE
701301-02	LANE CLOSURE - SHORT TERM OPERATIONS
701311-02	LANE CLOSURE - MOVING OPERATIONS - DAY ONLY
701321-08	LANE CLOSURE 2L, 2W BRIDGE REPAIR WITH BARRIER
701326-02	LANE CLOSURE 2L, 2W PAVEMENT WIDENING, FOR SPEED > 45 MPH
702001-05	TRAFFIC CONTROL DEVICES
704001-02	TEMPORARY CONCRETE BARRIER
780001-01	TYPICAL PAVEMENT MARKINGS

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

GENERAL NOTES
&
INDEX OF SHEETS

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

PLOT DATE = 10/26/2005
 FILE NAME = #FILE#
 PLOT SCALE = #SCALE#
 USER NAME = #DISTRICT#

GN&I

SUMMARY OF QUANTITIES

SUMMARY OF QUANTITIES			BOI.FED. 201. STATE TOTAL QUANTITIES	CONSTRUCTION TYPE CODE		
CODE NO	ITEM	UNIT		X028-2A		
20100110	TREE REMOVAL (6 TO 15 UNITS DIAMETER)	UNIT	16	16		
20200100	EARTH EXCAVATION	CU YD	513	513		
20400800	FURNISHED EXCAVATION	CU YD	111	111		
25000210	SEEDING, CLASS 2A	ACRE	0.2	0.2		
25000400	NITROGEN FERTILIZER NUTRIENT	POUND	15	15		
25000500	PHOSPHORUS FERTILIZER NUTRIENT	POUND	15	15		
25000600	POTASSIUM FERTILIZER NUTRIENT	POUND	15	15		
25000700	AGRICULTURAL GROUND LIMESTONE	TON	0.3	0.3		
25100115	MULCH, METHOD 2	ACRE	0.2	0.2		
28000250	TEMPORARY EROSION CONTROL SEEDING	POUND	17	17		
28000300	TEMPORARY DITCH CHECKS	EACH	4	4		
28100107	STONE RIPRAP, CLASS A4	SQ YD	395	395		
28200200	FILTER FABRIC	SQ YD	395	395		
31101000	SUB-BASE GRANULAR MATERIAL, TYPE B	TON	173	173		
35650700	BASE COURSE WIDENING	SQ YD	459	459		
40600100	BITUMINOUS MATERIALS (PRIME COAT)	GALLON	31	31		
44000100	PAVEMENT REMOVAL	SQ YD	59	59		
44001113	BITUMINOUS CONCRETE SURFACE REMOVAL (ASBESTOS)	SQ YD	139	139		
44004400	PAVEMENT REMOVAL (SPECIAL)	SQ YD	235	235		
50100100	REMOVAL OF EXISTING STRUCTURES	EACH	1	1		
50200100	STRUCTURE EXCAVATION	CU YD	68	68		
50300225	CONCRETE STRUCTURES	CU YD	11.6	11.6		
50500505	STUD SHEAR CONNECTORS	EACH	60	60		
* 50700209	UNTREATED TIMBER LAGGING	SQ FT	270	270		
* 50700211	FURNISHING SOLDIER PILES (HP SECTION)	FOOT	127	127		
50800105	REINFORCEMENT BARS	POUND	49,090	49,090		
51500100	NAME PLATES	EACH	1	1		
54003000	CONCRETE BOX CULVERTS	CU YD	207.9	207.9		
59100100	GEOCOMPOSITE WALL DRAIN	SQ YD	30	30		
* 63000000	STEEL PLATE BEAM GUARD RAIL, TYPE A	FOOT	650	650		
* 63000005	STEEL PLATE BEAM GUARD RAIL, TYPE B	FOOT	50	50		
* 63000025	STEEL PLATE BEAM GUARD RAIL, ATTACHED TO STRUCTURES	FOOT	75	75		
* 63100167	TRAFFIC BARRIER TERMINAL TYPE 1, SPECIAL (TANGENT)	EACH	4	4		
70500100	STEEL PLATE BEAM GUARD RAIL TYPE A	FOOT	85	85		
67000500	ENGINEER'S FIELD OFFICE, TYPE B	CAL MO	7	7		
67100100	MOBILIZATION	L SUM	1	1		
70100500	TRAFFIC CONTROL AND PROTECTION, STANDARD 701326	L SUM	1	1		

SUMMARY OF QUANTITIES			BOI.FED. 201. STATE TOTAL QUANTITIES	CONSTRUCTION TYPE CODE		
CODE NO	ITEM	UNIT		X028-2A	SFTY-3A	
70101205	TRAFFIC CONTROL AND PROTECTION, STANDARD 701321 (SPECIAL)	EACH	1	1		
70103815	TRAFFIC CONTROL SURVEILLANCE	CAL DA	2	2		
70106500	TEMPORARY BRIDGE TRAFFIC SIGNALS	EACH	1	1		
70300100	SHORT-TERM PAVEMENT MARKING	FOOT	76	76		
70301000	WORK ZONE PAVEMENT MARKING REMOVAL	SQ FT	25	25		
70400500	TEMPORARY CONCRETE BARRIER (STATE OWNED)	FOOT	380	380		
70400600	RELOCATE TEMPORARY CONCRETE BARRIER (STATE OWNED)	FOOT	320	320		
70500200	TEMPORARY STEEL PLATE BEAM GUARD RAIL, TYPE B	FOOT	37.5	37.5		
70500685	TEMPORARY TRAFFIC BARRIER TERMINAL, TYPE 10	EACH	2	2		
* 78001110	PAINT PAVEMENT MARKING - LINE 4"	FOOT	1670	1670		
* 78200410	GUARDRAIL MARKERS, TYPE A	EACH	13	13		
* 78201000	TERMINAL MARKER - DIRECT APPLIED	EACH	4	4		
78300100	PAVEMENT MARKING REMOVAL	SQ FT	1584	1584		
X0323988	TEMPORARY SOIL RETENTION SYSTEM	SQ FT	380	380		
* X0324455	DRILLING AND SETTING SOLDIER PILES (IN SOIL)	CU FT	104	104		
* X0324456	DRILLING AND SETTING SOLDIER PILES (IN ROCK)	CU FT	113	113		
X0348700	AGGREGATE DITCH CHECK	EACH	1	1		
X0392300	DITCH CHECK REMOVAL	EACH	1	1		
X4024000	TEMPORARY ACCESS (FIELD ENTRANCE)	EACH	2	2		
X4073161	BITUMINOUS CONCRETE PAVEMENT (FULL-DEPTH), SUPERPAVE, 14"	SQ YD	312	312		
X4080020	INCIDENTAL BITUMINOUS SURFACING, SUPERPAVE, N50	TON	4	4		
X6330103	REMOVE AND RE-ERECT TRAFFIC BARRIER TERMINAL, TYPE 1 SPECIAL, TANGENT	EACH	1	1		
Z0002600	BAR SPLICERS	EACH	169	169		
Z0030240	IMPACT ATTENUATORS, TEMPORARY (NON-REDIRECTIVE), TEST LEVEL 2	EACH	2			2
Z0030340	IMPACT ATTENUATORS, RELOCATE (NON-REDIRECTIVE), TEST LEVEL 2	EACH	2			2

* SPECIALTY ITEMS

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES

DRAWN BY
CHECKED BY

SCALE: VERT. _____
HORIZ. _____

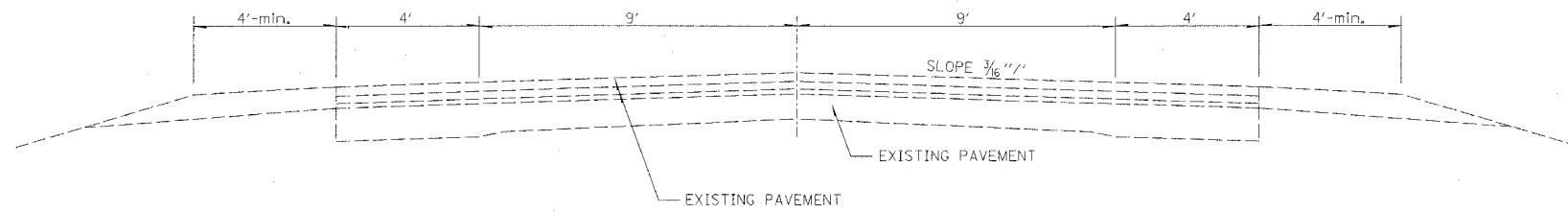
DATE _____

district
 10/26/2005
 ct:\p_projects\94434\d04599pa.dgn
 SOO

PLOT DATE = 10/26/2005
 PLOT SCALE = 1"=40'
 USER NAME = district

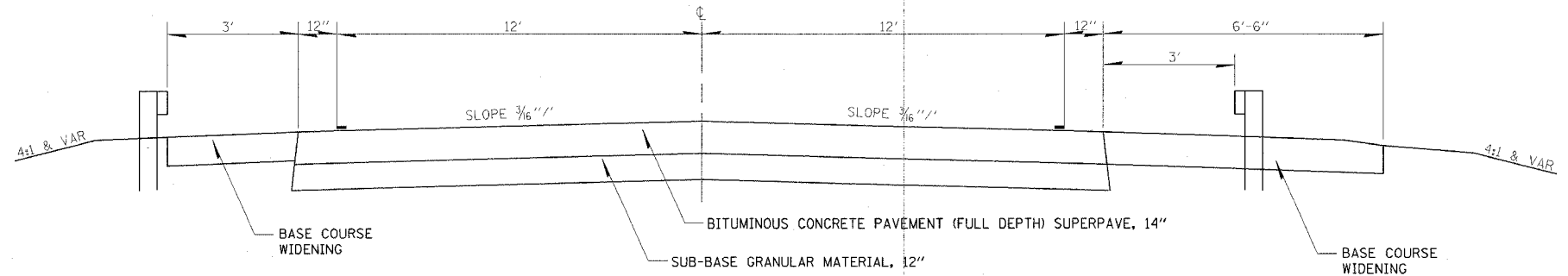
Rev.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
328	109B-1	WHITE	26	4
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		



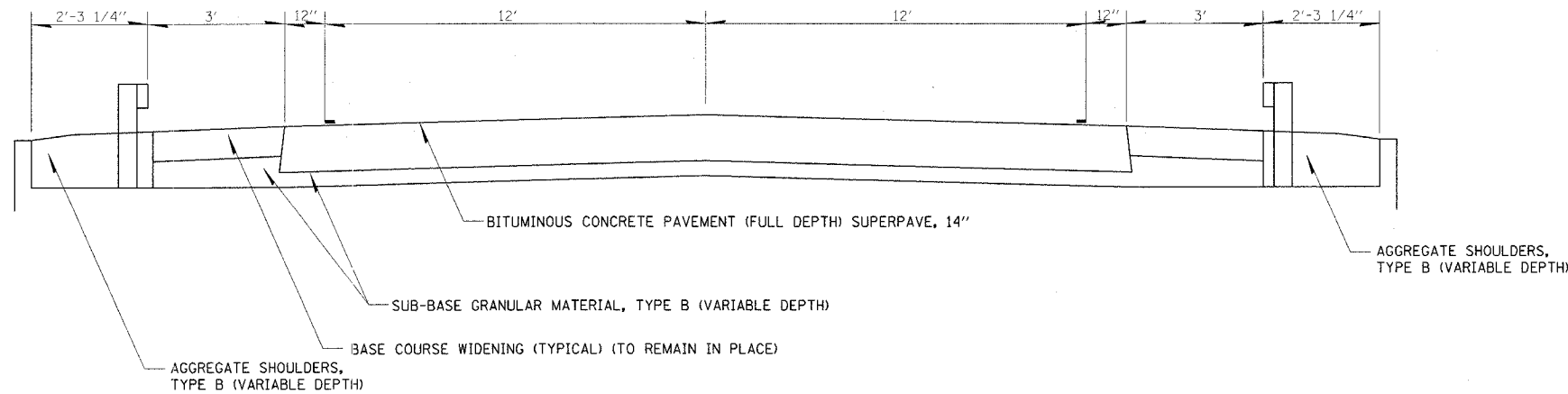
ADJACENT TYPICAL SECTION

STATION 71+00 TO STATION 74+54.6
STATION 74+85.4 TO STATION 79+00

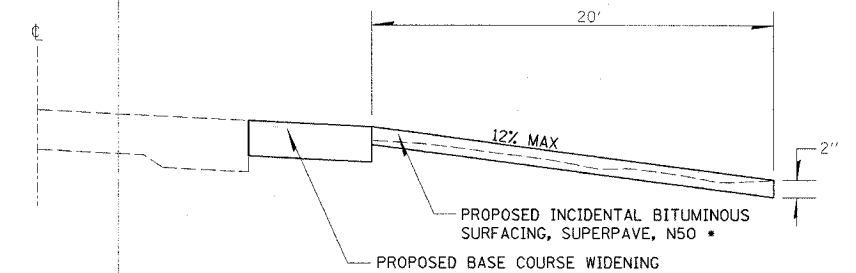


PROPOSED ADJACENT TYPICAL SECTION

STATION 74+16 TO STATION 74+56.75
STATION 74+83 TO STATION 74+24.00



TYPICAL SECTION OVER CULVERT



F.E. AT STATION 74+29

NOTE:

EARTH EXCAVATION REQUIRED TO CONSTRUCT THIS FIELD ENTRANCE SHALL BE INCLUDED IN THE PAY ITEM INCIDENTAL BITUMINOUS SURFACING, SUPERPAVE, N50

NUMBER OF TURNS REQUIRED IN DETECTOR LOOPS														
5 X 5		6 X 6		6 X 15		6 X 30		6 X 35		6 X 40		6 X 50		LOOP SIZE
FROM	TO	FROM	TO	FROM	TO	FROM	TO	FROM	TO	FROM	TO	FROM	TO	
				0	545	0	491	0	559	0	627	0	764	2 TURNS
		0	545	574	955	492	982	560	1118	628	1255	765	1527	3 TURNS
		819	1145	983	1636	983	1636	1119	1864	1256	2091	1528	2545	4 TURNS
0	681	819	1145	1433	2005	1637	2455	1865	2795	2092	3136	2546	3818	5 TURNS
682	954	819	1145	1433	2005	2456	3436	2796	3914					6 TURNS
955	1272	1146	1527	2006	2673									7 TURNS
1273	1636	1528	1964	2674	3436									8 TURNS
1637	2045	1965	2455											9 TURNS
2046	2499	2456	3000											10 TURNS

THE NUMBERS IN THE TABLE REPRESENT THE DISTANCE FROM THE CABINET TO THE DETECTOR LOOP IN FEET

PLOT DATE = 10/25/2005
 PLOT SCALE = 1/8\"/>

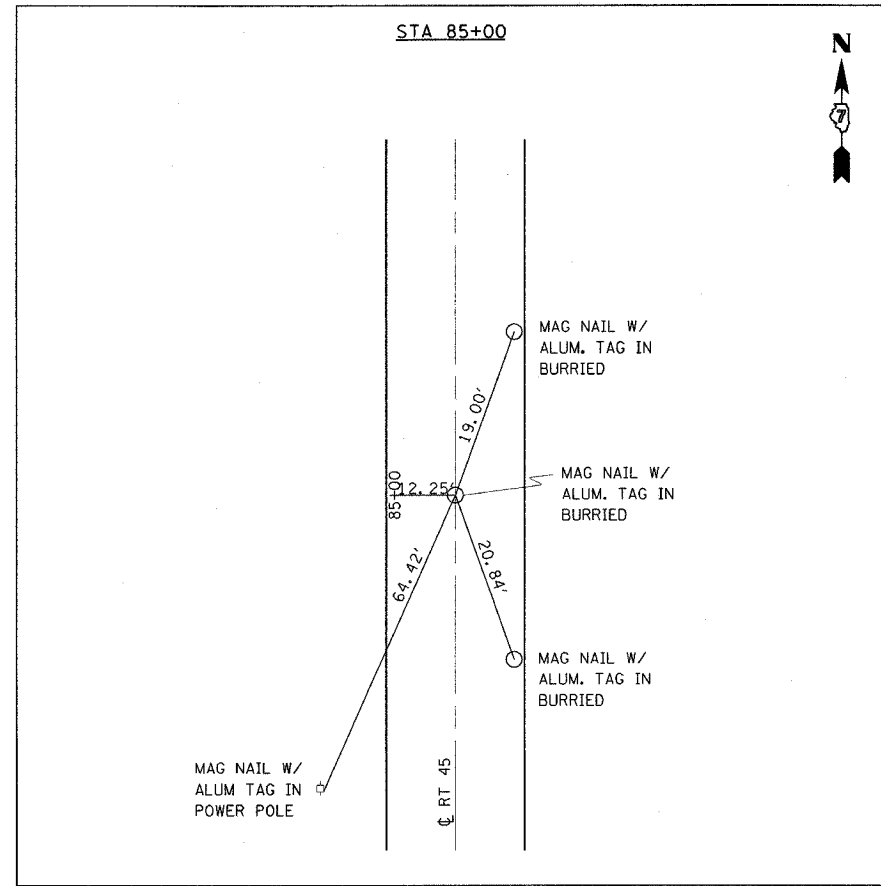
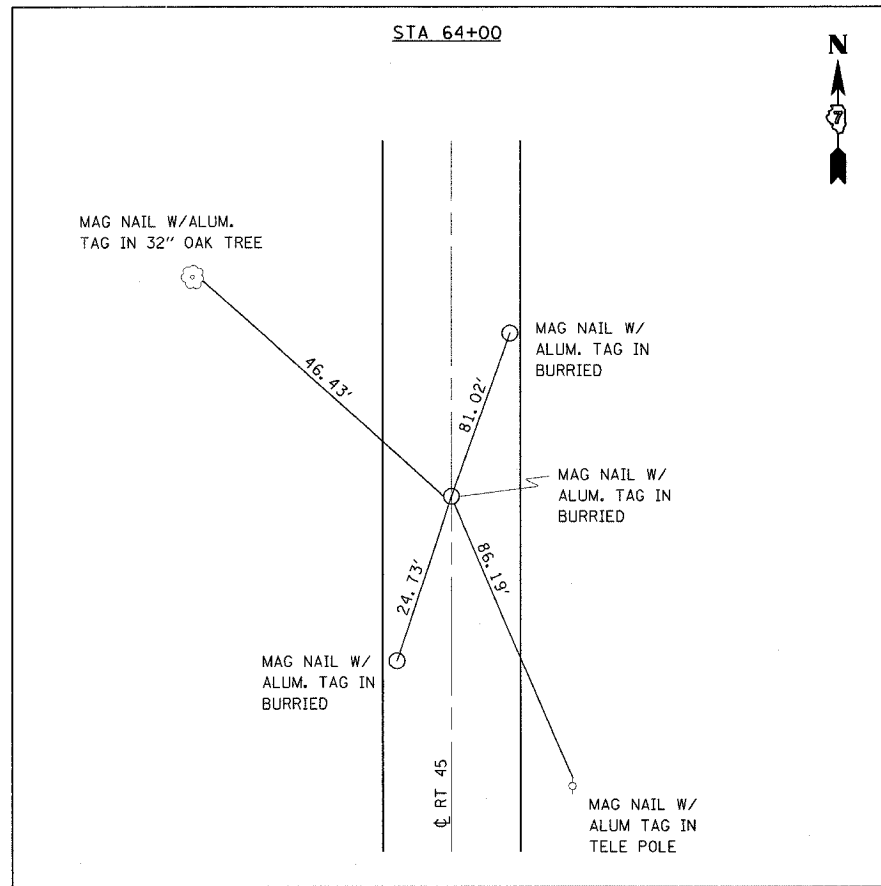
REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
TYPICAL SECTION DETAILS & DETECTOR LOOPS

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
328	109B-1	WHITE	26	5
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

TIES



- BM 200 EL. = 444.742 RR SPIKE IN POWER POLE, 17' N. OF CENTERLINE OF TOWNSHIP ROAD 1200N, 0.15 MILES W. OF INTERSECTION OF RT. 45 AND TOWNSHIP ROAD 1200N.
- BM 201 EL. = 451.887 RR SPIKE IN PWR. POLE, NW QUAD. OF RT. 45 AND TOWNSHIP ROAD 1200N. STA. 114+80/42' RT. (ROUTE 45 STATIONING)
- BM 202 EL. = 449.908 CHISELED SQUARE IN CENTER OF N. HEADWALL OF 1.5' x 3' BOX CULVERT. STA. 97+55/24' LT.
- BM 203 EL. = 434.450 CHISELED SQUARE IN CENTER OF N. HEADWALL OF 1.5' x 3' BOX CULVERT. STA. 78+70/24' LT.
- BM 204 EL. = 431.775 RR SPIKE IN POWER POLE, S. SIDE OF BRIDGE ON E. SIDE OF RT. 45. STA. 75+34/39' LT.
- BM 205 EL. = 428.478 RR SPIKE IN POWER POLE, 4th PWR. POLE N. OF BRIDGE ON E. SIDE. STA. 69+25/39' LT.
- BM 500 EL. = 432.041 CHISELED SQUARE IN CENTER OF N. HEADWALL OF 1'DIA. RCCP. STA. 59+21/29' RT.

- BM 501 EL. = 438.583 CHISELED SQUARE IN CENTER OF S. WALL OF CONC. WIER @ W. END OF 4' x 4' BOX CULVERT. STA. 40+80/24' RT.
- BM 502 EL. = 451.960 CHISELED SQUARE IN CENTER OF S. WALL OF CONC. WIER @ W. END OF 4' x 8' BOX CULVERT. STA. 23+77/24' RT.
- BM 503 EL. = 469.880 CHISELED SQUARE IN CENTER OF S. HEADWALL OF 1'DIA. RCCP. STA. 13+15/24' RT.
- BM 504 EL. = 478.487 CHISELED SQUARE IN CENTER OF N. HEADWALL OF 1.5' x 4' BOX CULVERT. STA. 490+98/23' RT. (ROUTE 14 STATIONING)
- BM 505 EL. = 455.094 CHISELED SQUARE IN CENTER OF N. HEADWALL OF 5'DIA. RCCP. STA. 472+26/31' RT.
- BM 506 EL. = 448.740 CHISELED SQUARE IN CENTER OF N. HEADWALL OF 3'DIA. RCCP. STA. 447+48/24' RT.
- BM 507 EL. = 433.512 RR SPIKE IN POWER POLE STA. 420+76/49' RT.

- BM 508 EL. = 406.113 CHISELED SQUARE IN CENTER OF W. HEADWALL OF 2-2'DIA. VCP. STA. 390+18/32' RT.
- BM 509 EL. = 402.701 CHISELED SQUARE ON TOP OF W. END OF S. ABUTMENT OF BRIDGE TO HOUSE. STA. 374+12/35' RT.
- BM 510 EL. = 401.210 CHISELED SQUARE ON TOP OF S. END OF W. ABUTMENT OF BRIDGE. (BRIDGE STRUCTURE #0970068) STA. 340+51/20' LT.
- BM 511 EL. = 401.359 BRASS MONUMENT ON TOP OF S. END OF W. ABUTMENT OF BRIDGE. (BRIDGE STRUCTURE #0970066) STA. 307+15/19' LT.
- BM 512 EL. = 394.233 RR SPIKE IN POWER POLE. STA. 289+55/60' RT.
- BM 513 EL. = 398.305 CHISELED SQUARE IN CENTER OF E. HEADWALL OF 4' x 4' BOX CULVERT, SE QUAD. OF RT. 14 AND TOWNSHIP ROAD 600E STA. 282+70/78' LT.
- BM 514 EL. = 398.686 CHISELED SQUARE IN CENTER OF S. HEADWALL OF 2' x 4' BOX CULVERT. STA. 272+18/23' LT.

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

BENCHMARKS & ALIGNMENT TIES

SCALE: VERT. _____ HORIZ. _____

DATE _____ DRAWN BY _____ CHECKED BY _____

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
328	109B-1	WHITE	26	6
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

EARTHWORK SCHEDULE

LOCATION	EARTH EXCAVATION	FILL	EARTH EXCAVATION ADJUSTED FOR SHRINKAGE	EARTHWORK BALANCE, WASTE (+) SHORTAGE (-)
	CU YD	CU YD	CU YD	CU YD
SN 097-2012				
72+00 TO 72+50	14	16	11	-5
72+50 TO 73+00	15	20	11	-9
73+00 TO 73+50	8	11	6	-5
73+50 TO 74+00	10	5	8	3
74+00 TO 75+00	16	1	0	-1
75+00 TO 75+52.5	1	0	0	0
EXCAVATION AT STRUCTURE	400	400	300	-100
74+87.5 TO 75+00	4	0	3	3
75+00 TO 75+50	15	6	11	6
75+50 TO 76+00	12	12	9	-3
76+00 TO 76+50	10	10	8	-2
76+50 TO 76+90	7	3	5	3
SN 097-2012 TOTAL	513	484	372	-111

GUARDRAIL SCHEDULE

LOCATION	STEEL PLATE BEAM GUARDRAIL, TYPE A	STEEL PLATE BEAM GUARDRAIL, TYPE B	TEMPORARY TRAFFIC BARRIER TERMINAL TYPE 10	TRAFFIC BARRIER TERMINAL, TYPE 1 SPECIAL TANGENT	REMOVE AND RE-ERECT TRAFFIC BARRIER TERMINAL TYPE 1 TANGENT	TEMPORARY STEEL PLATE BEAM GUARDRAIL	TERMINAL MARKER - DIRECT APPLIED	GUARDRAIL MARKERS, TYPE A	TEMPORARY STEEL PLATE BEAM GUARD RAIL, TYPE B	STEEL PLATE BEAM GUARDRAIL ATTACHED TO STRUCTURE
	FOOT	FOOT	EACH	EACH	EACH	FOOT	EACH	EACH	FOOT	FOOT
STAGE I										
NW CORNER		50	1	1		35			37.5	
SW CORNER			1	1		50				
OVER STRUCTURE										37.5
NE CORNER	156.25			1			1			
SE CORNER	206.25			1			1			
STAGE II										
NW CORNER	175						1	7		
SW CORNER	112.5						1			
OVER STRUCTURE					1			6		37.5
NE CORNER										
SE CORNER										
TOTAL	650	50	2	4	1	85	4	13	37.5	75

SEEDING SCHEDULE

SEEDING CLASS 2	0.2 ACRES
NITROGEN FERTILIZER	15 LBS
PHOSPHORUS FERTILIZER NUTRIENT	15 LBS
POTASSIUM FERTILIZER NUTRIENT	15 LBS
AGRICULTURAL GROUND LIMESTONE	0.3 TONS
MULCH METHOD 2	0.2 ACRES
TEMPORARY EROSION CONTROL SEEDING	17 POUND

TEMPORARY DITCH CHECKS

LOCATION	QUANTITY
NW CORNER	1
NE CORNER	1
SW CORNER	1
SE CORNER	1
TOTAL	4 EACH

AGGREGATE DITCH CHECK

OFFSET	STATION	QUANTITY
50' LT	74+50	1 EACH

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

SCHEDULE OF QUANTITIES

SCALE: VERT. DATE
HORIZ.

DRAWN BY
CHECKED BY

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
328	109B-1	WHITE	26	7
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

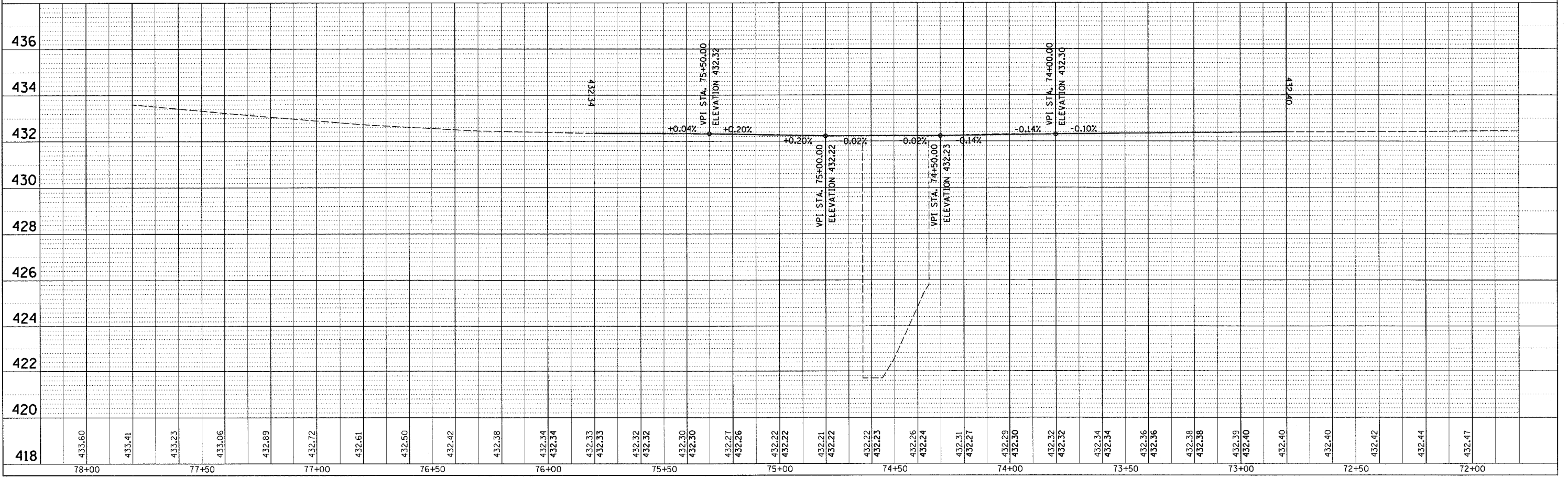
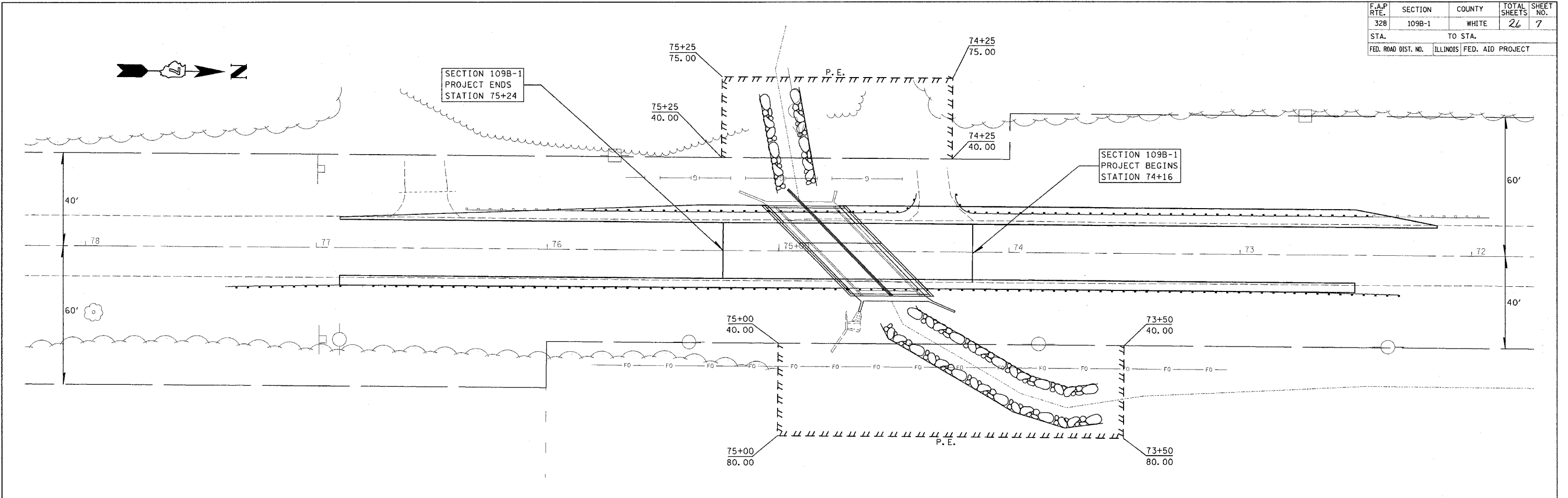
PLAN

SURVEYED	DATE
PLOTTED	BY
CHECKED	
BY	
NO. OF WAY CHECKED	
CADD FILE NAME	
NO.	

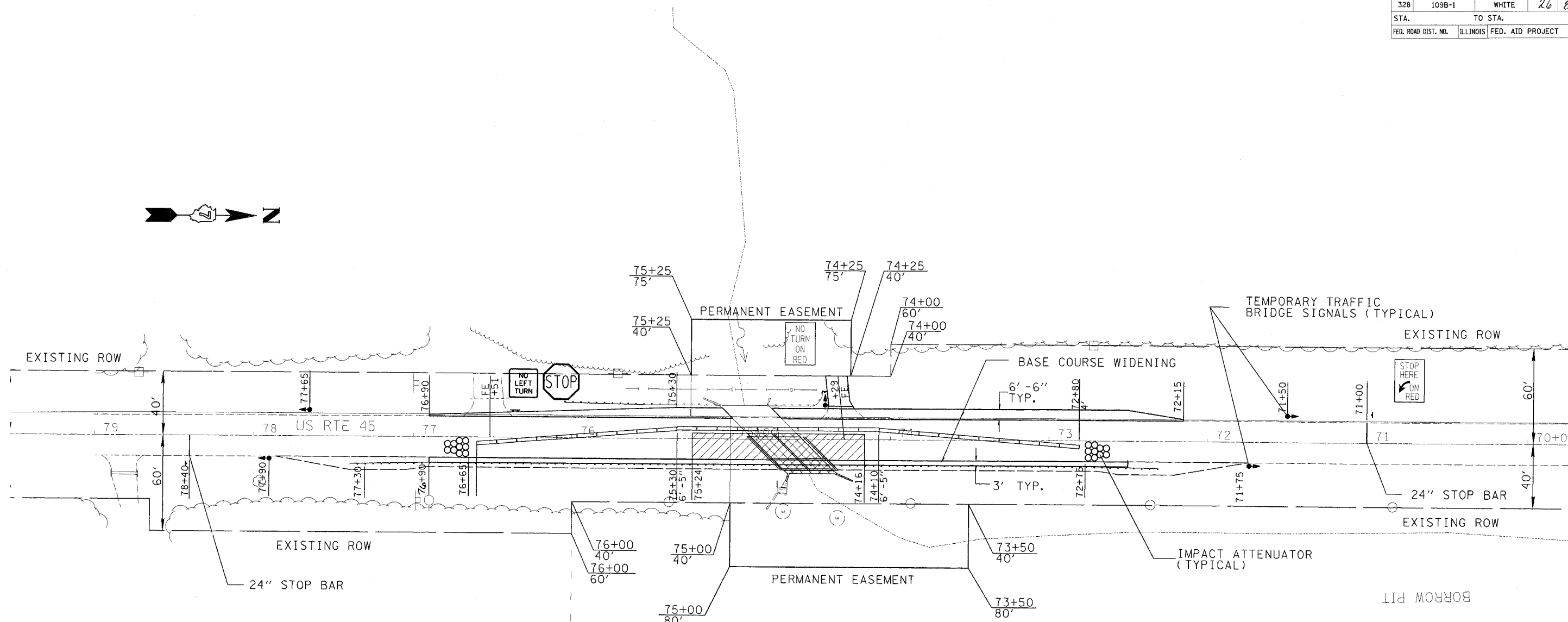
PROFILE

SURVEYED	DATE
PLOTTED	BY
CHECKED	
BY	
NO. OF WAY CHECKED	
STRUCTURE NOTATION OK'D	
NO.	

PLOT DATE = 10/26/2005
 FILE NAME = #FILE#
 PLOT SCALE = #SCALE#
 USER NAME = #USER#



F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
328	109B-1	WHITE	26	8
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



TREE REMOVAL (6 - 15 UNITS)

74+30	50' LT	10
74+55	45' LT	6
TOTAL		16 UNITS

DITCH CHECK REMOVAL

74+68	32' LT	1 EACH
TOTAL		1 EACH

BASE COURSE WIDENING

LT 72+50	TO 74+36	62
74+36	TO 74+73	12
74+73	TO 76+90	72
RT 72+15	TO 72+50	15
72+50	TO 74+71	160
75+02	TO 75+30	12
75+30	TO 76+90	67
		400 SQ YD

PAVEMENT REMOVAL (SPECIAL)

74+16.00	TO 74+56.75	74.7
74+83.25	TO 75+24.00	74.7
		149.4 SQ YD

BITUMINOUS CONCRETE PAVEMENT 14" (FULL DEPTH)

STAGE 1		
74+16.00 TO 74+56.75	75	
74+56.75 TO 74+83.25	48	
74+83.25 TO 75+24.00	75	
		198 SQ YD

SUB-BASE GRANULAR MATERIAL, TYPE B

STAGE 1		
74+16.00 TO 74+56.75	51	
74+56.75 TO 74+83.25	7	
74+83.25 TO 75+24.00	51	
		109 TON

INCIDENTAL BITUMINOUS SURFACING, SUPERPAVE, N50

STAGE 1		
STATION	74+29 (FE)	4.0 TON

PAVEMENT MARKING REMOVAL

PERM. (LT EDGE)	71+00 TO 78+40	247
PERM. (CL)	71+00 TO 78+40	62
TEMP (LT EDGE)	71+00 TO 78+40	247
TEMP (CL)	71+00 TO 78+40	247
		802 SQ FT

STAGE I SEQUENCE OF OPERATIONS

1. CONSTRUCT BASE COURSE WIDENING TRAFFIC CONTROL STANDARD 701326.
2. PLACE TEMPORARY GUARDRAIL AND TEMPORARY TRAFFIC TERMINAL, TYPE 1 (TANGENT).
3. ERECT SIGNS, TRAFFIC SIGNALS, TEMPORARY BARRIERS, ETC. ACCORDING TO TRAFFIC CONTROL STANDARD 701321.
4. PLACE TEMPORARY PAVEMENT MARKING LINE TO ALLOW FOR A 12 FOOT TRAFFIC LANE.
5. REMOVE THE STAGE I PORTION OF THE EXISTING STRUCTURE, CONCRETE DITCH CHECK AND PAVEMENT.
6. CONSTRUCT THE STAGE I PORTION OF THE PROPOSED BOX CULVERT, PAVEMENT, BASE COURSE WIDENING AND NEW GUARDRAIL AND TRAFFIC TERMINALS, TYPE 1 SPECIAL (TANGENT).
7. CONSTRUCT SEEDING, MULCH AND TEMPORARY DITCH CHECKS ON STAGE I TRAFFIC SIDE.

PAVEMENT REMOVAL (SPECIAL)

STRUCTURE REMOVAL

REVISIONS	
NAME	DATE

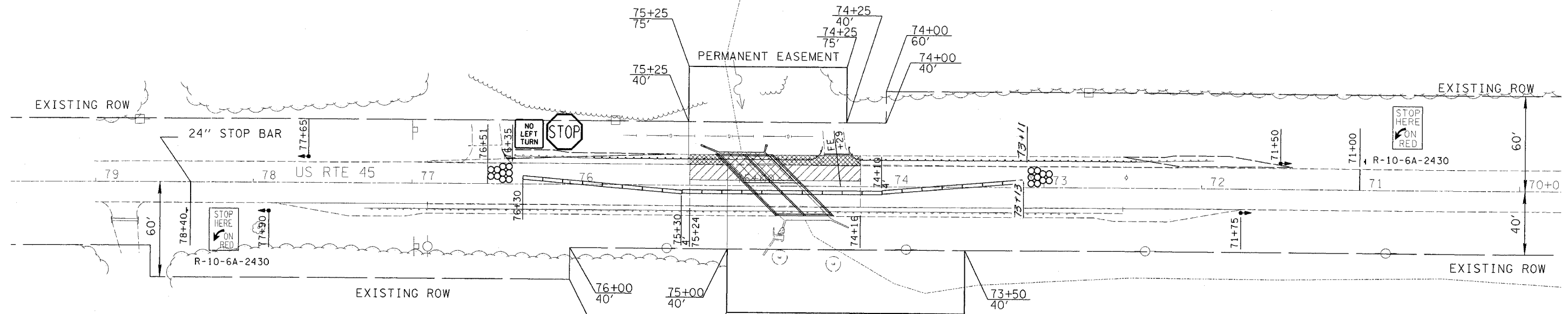
ILLINOIS DEPARTMENT OF TRANSPORTATION

STAGE CONSTRUCTION 1

SCALE: VERT. HORIZ. DATE

DRAWN BY CHECKED BY

CONTRACT NO. 94434				
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
328	109B-1	WHITE	26	9
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



SUB-BASE GRANULAR MATERIAL, TYPE B
STAGE 2

74+16.00 TO 74+56.75	29
74+56.75 TO 74+83.25	6
74+83.25 TO 75+24.00	29
TOTAL	64 TON

BITUMINOUS CONCRETE PAVEMENT 14" (FULL DEPTH)
STAGE 2

74+16.00 TO 74+56.75	43
74+56.75 TO 74+83.25	28
74+83.25 TO 75+24.00	43
TOTAL	114 SQ YD

PAINT PAVEMENT MARKING REMOVAL

PERM. (RT EDGE) 71+00 TO 74+16	105
PERM. (RT EDGE) 75+24 TO 78+40	132
TEMP (RT EDGE) 71+00 TO 78+40	247
TEMP (CL) 71+00 TO 78+40	247
STOP BAR 71+00	26
STOP BAR 78+65	26
TOTAL	782 SQ FT

WORK ZONE PAVEMENT MARKING REMOVAL

71+00 TO 78+40	25 SQ FT
----------------	----------

SHORT TERM PAVEMENT MARKING

71+00 TO 78+40	76 FOOT
----------------	---------

PAVEMENT MARKING LINE-4"

	LENGTH (FOOT)	YELLOW (FOOT)	WHITE (FOOT)
CL 71+00 TO 78+40	740	190	
RT 71+00 TO 78+40	740		740
RT 71+00 TO 78+40	740		740
COLOR TOTAL	190	1480	
TOTAL		1670 FOOT	

PAVEMENT REMOVAL (SPECIAL)

74+16.00 TO 74+56.75	43
74+83.25 TO 75+24.00	43
TOTAL	86 SQ YD

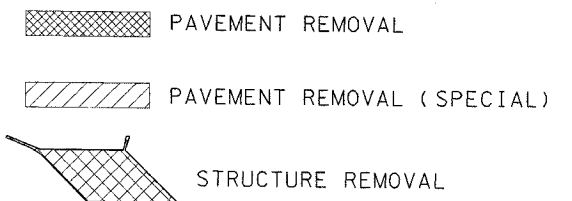
PAVEMENT REMOVAL

RT 74+16.00 TO 74+56.75	29.4
LT 74+83.25 TO 75+24.00	29.4
TOTAL	59 SQ YD

BASE COURSE WIDENING

RT 74+16.00 TO 74+56.75	29
RT 74+83.25 TO 75+24.00	29
TOTAL	59 SQ YD

- STAGE II SEQUENCE OF OPERATIONS**
1. RELOCATE TEMPORARY CONCRETE BARRIERS, SIGNS, ETC. ACCORDING TO TRAFFIC CONTROL STANDARD 701321 AND PLACE TEMPORARY PAVEMENT MARKING TO ALLOW A 12' TRAFFIC LANE.
 2. REMOVE THE STAGE II PORTION OF THE EXISTING STRUCTURE, PAVEMENT AND GUARDRAIL.
 3. CONSTRUCT THE STAGE II PORTION OF THE NEW BOX CULVERT, SUB-BASE GRANULAR MATERIAL, TYPE B, BITUMINOUS CONCRETE PAVEMENT, 14", BASE COURSE WIDENING, GUARDRAIL, AND REMOVE AND RE-ERECT TRAFFIC TERMINAL, TYPE 1 SPECIAL (TANGENT).
 4. CONSTRUCT SEEDING, MULCH AND TEMPORARY DITCH CHECKS ON STAGE II TRAFFIC SIDE.
 5. REMOVE THE TRAFFIC CONTROL STANDARD 701321.



REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

STAGE CONSTRUCTION 2

SCALE: VERT. _____
HORIZ. _____

DATE _____

DRAWN BY _____
CHECKED BY _____

PLOT DATE = 10/25/2005
FILE NAME = #FILE#
PLOTTER = #PLOT#
USER NAME = #USER#

Rev.

Bench Mark: Chiseled "□" in center of North Headwall of 18"x36" box culvert, 24' Left of Station 78+70, Elev. 434.50.

Existing Structure: S.N. 097-0025 built in 1927 as S.B.I. Route 140, Sec. 109 at Sta. 74+70. The structure is a single span concrete slab bridge on closed abutments with timber piles. The structure length is 30'-10" bk.-to-bk. of abutments, measured along the centerline of roadway. The width is 42'-2" out-to-out deck, measured perpendicular to the centerline of roadway. The contractor shall remove and replace with a 12'x9' CIP double box culvert. Traffic shall be maintained utilizing stage construction.

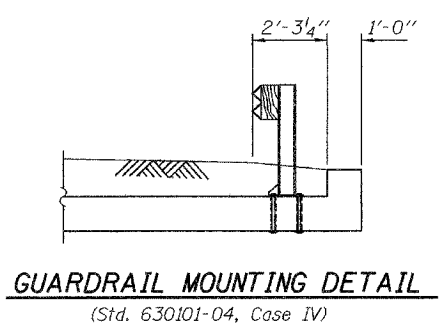
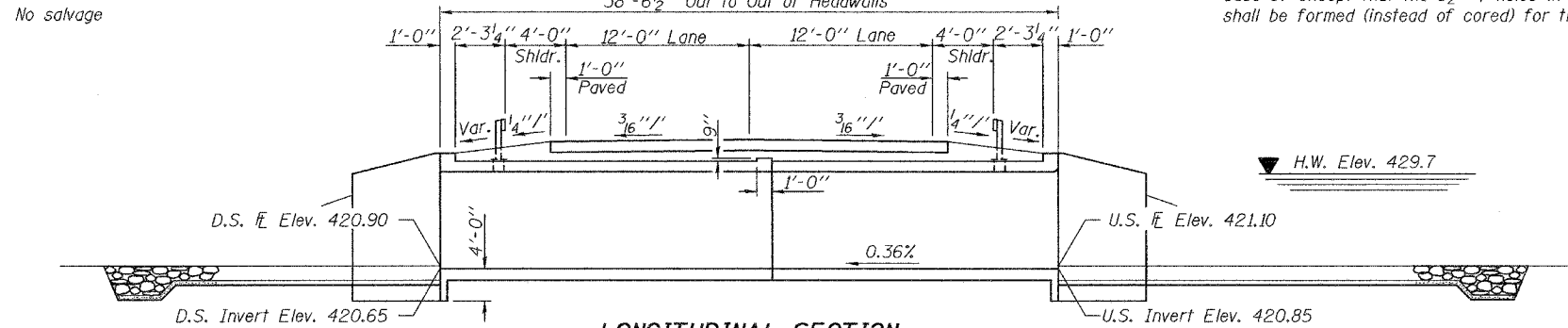
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

Note: Steel Plate Beam Guard Rail, attached to Structures (See Std. 630101). Attachment shall be according to Case IV except that the 1/2" φ holes in the top slab shall be formed (instead of cored) for the threaded rods.

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.U. 328	109 BR-1	WHITE	21	10
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT-		

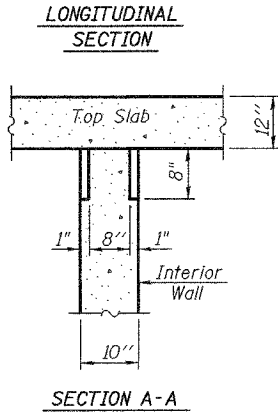
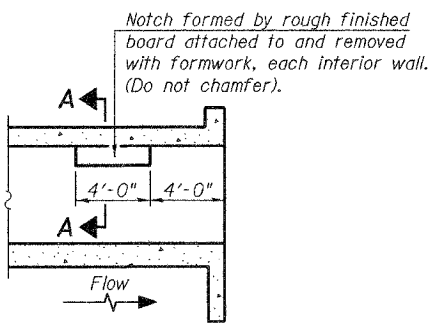
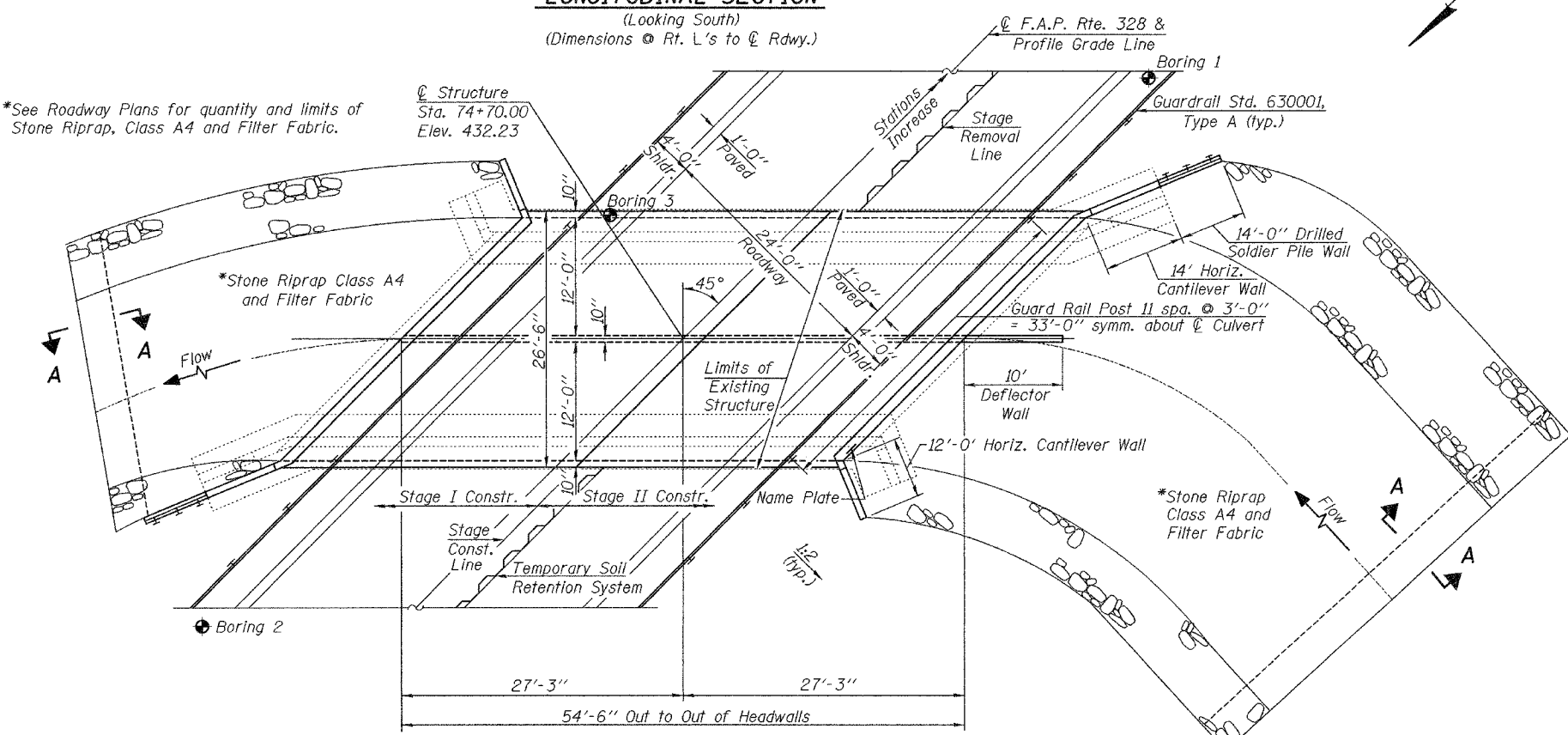
SHEET NO. 1
12 SHEETS

Contract #94434



GENERAL NOTES

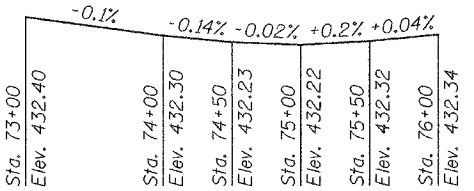
Reinforcement bars shall conform to the requirements of AASHTO M 31, or M 322 Grade 60. Layout of slope protection system may be varied in the field to suit ground conditions as directed by the Engineer. All Construction joints shall be bonded. Precast alternate is not allowed. The Contractor shall excavate behind the existing abutments before removing the existing Superstructure. The Contractor shall saw cut existing abutment wall at Stage Construction Line before removing the existing abutments. Cost included with Removal of Existing Structures.



- INDEX OF SHEETS**
1. General Plan and Elevation
 2. Stage Construction Details & Temporary Steet Piling Layout
 3. Temporary Concrete Barrier
 - 4-8. Culvert Details
 - 9-10. Soldier Pile Details
 11. Bar Splicer
 12. Boring Log

TOTAL BILL OF MATERIAL

ITEM	UNIT	SUPER	SUB	TOTAL
Removal of Existing Structures	Each			1
Reinforcement Bars	Pound		49090	49090
Bar Splicers	Each			169
Temporary Soil Retention System	Sq. Ft.			380
Steel Plate Beam Guard Rail, Attached to Structures	Foot			75
Structure Excavation	Cu. Yd.			68
Name Plates	Each			1
Concrete Box Culverts	Cu. Yd.		207.9	207.9
Furnishing Soldier Piles HP Sections	Foot			127
Stud Shear Connectors	Each			60
Untreated Timber Lagging	Sq. Ft.			270
Geocomposite Wall Drains	Sq. Yd.			30
Drilling and Setting Soldier Piles (in Soil)	Cu. Ft.			104
Drilling and Setting Soldier Piles (in Rock)	Cu. Ft.			113
Concrete Structures	Cu. Yd.			11.6



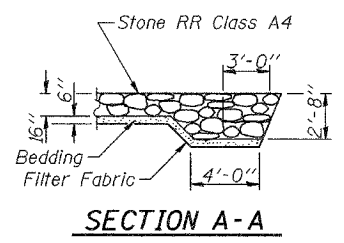
PLAN

WATERWAY INFORMATION

Drainage Area = 1.78 Sq. Mi. (E) Low Grade Elev. 432.22 @ Sta. 75+00 (P) Low Grade Elev. 432.30 @ Sta. 74+00

Flood	Freq. Yr.	Q C.F.S.	Opening Sq. Ft. Exist.	Prop.	Nat. H.W.E. Exist.	Prop.	Head - Ft. Exist.	Prop.	Headwater El. Exist.	Prop.
Design	10	573	122	197	429.1	0.9	0.5	430.0	429.6	
Base	50	850	134	211	429.7	1.1	0.7	430.8	430.4	
Overtopping	100	967	136	214	429.8	1.3	0.8	431.1	430.6	
Max. Calc.	500	1240	137	216	430.0	2.0	1.1	432.0	431.1	

STATION 74+70.00
BUILT 20 BY
STATE OF ILLINOIS
F.A.P. RT. 328 SECTION 109B-1
LOADING HS-20
STR. NO. 097-2012



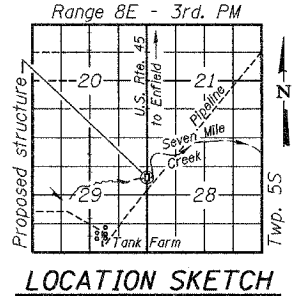
NAME PLATE
See Std. 515001

LOADING HS20-44
Allow 50#/sq. ft. for future wearing surface.

DESIGN SPECIFICATIONS
2002 AASHTO Standard Specifications

DESIGN STRESSES

FIELD UNITS
f_c = 3,500 psi
f_y = 60,000 psi (reinforcement)



GENERAL PLAN
U.S. ROUTE 45 OVER
SEVEN MILE CREEK
F.A.P. ROUTE 328 - SECTION 109B-1
WHITE COUNTY
STATION 74+70.00
STRUCTURE NO. 097-2012

DESIGNED: Patrick M. Pothone
CHECKED: R. Sommer
DRAWN: R. Sommer
CHECKED: pmp/PRC

EXAMINED: Thomas J. Smith
PASSED: Ralph E. Adams

November 10 2005

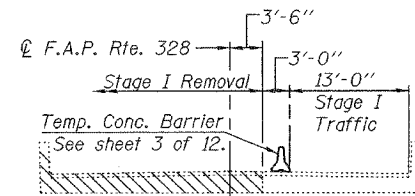
STATE OF ILLINOIS
ENGINEER OF BRIDGE DESIGN
081-004625

EXPIRES 11-30-2006

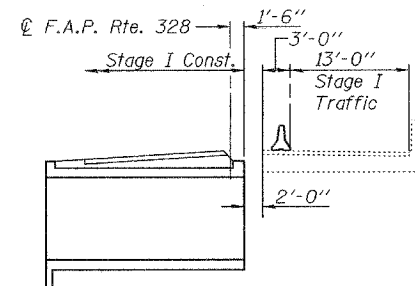
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	SHEETS	SHEET NO.
F.A.U. 328	109 BR-1	WHITE	21	11
FED. ROAD DIST. NO. 7		ILLINOIS	FED. AID PROJECT-	

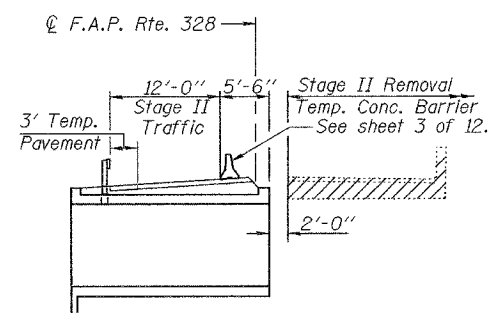
Contract #94434



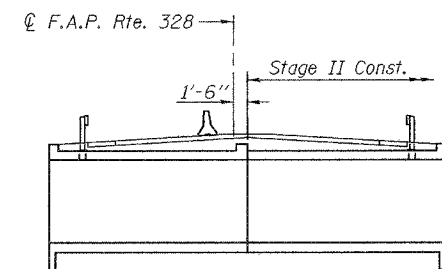
STAGE I REMOVAL



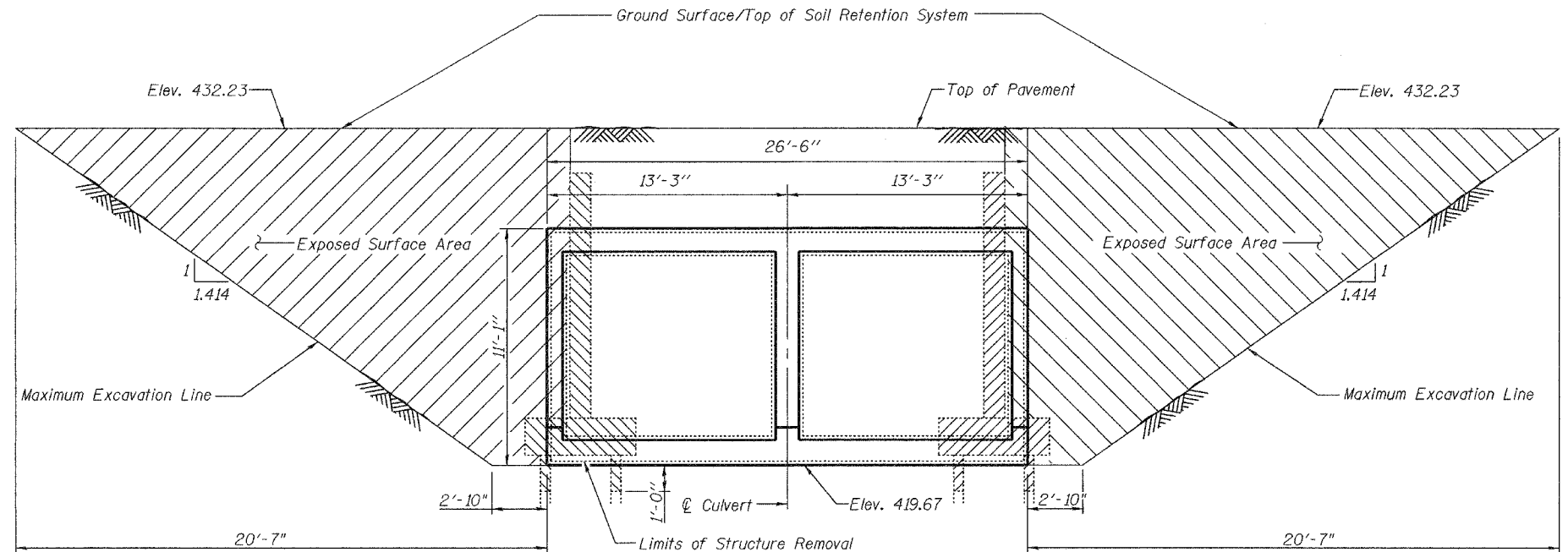
STAGE I CONSTRUCTION



STAGE II REMOVAL



STAGE II CONSTRUCTION



Note: Remove existing timber piles 1'-0" below bottom of proposed culvert. Cost included in "Removal of Existing Structures".

TEMPORARY SOIL RETENTION SYSTEM

Note: 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.

Notes:
All staging sections are looking South.
For quantity of Temporary Concrete Barrier, See Roadway Plans.
Hatched areas indicate Removal of Existing Structures.

DESIGNED	Patrick M. Petrone
CHECKED	Phillip R. Litchfield
DRAWN	R. Sommer
CHECKED	PMP/PRL

EXAMINED	November 10, 2005
PASSED	Thomas J. Demagala ENGINEER OF BRIDGE DESIGN
	Ralph E. Anderson ENGINEER OF BRIDGES AND STRUCTURES

STAGE CONSTRUCTION DETAILS
F.A.P. RT. 328 SEC. 109B-1
WHITE COUNTY
STATION 74+70.00
STRUCTURE No. 097-2012

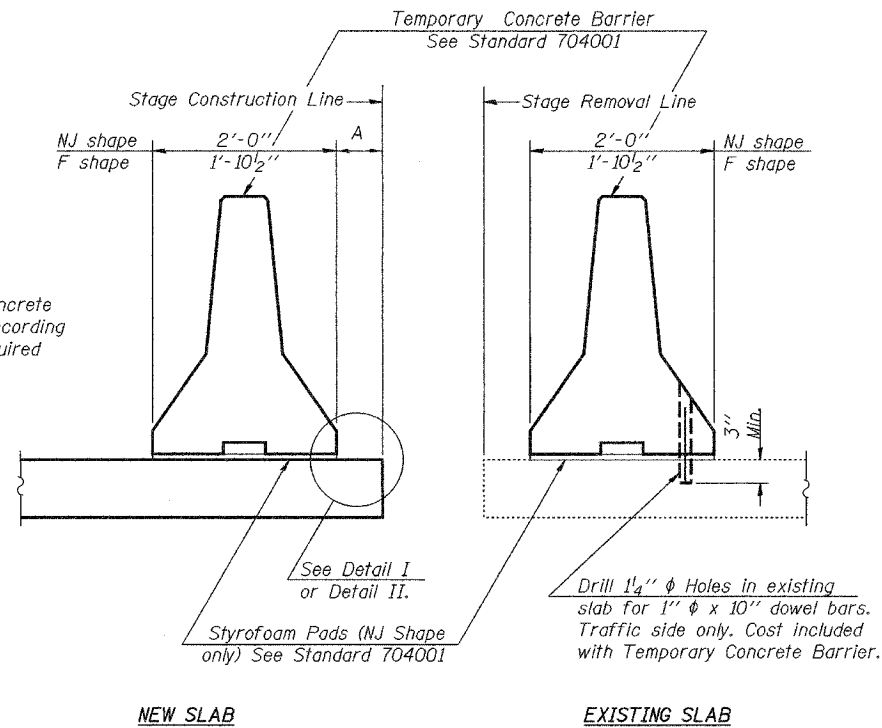
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.U. 328	109 BR-1	WHITE	21	12
FED. ROAD DIST. NO. 7		ILLINOIS	FED. AID PROJECT-	

SHEET NO. 3

12 SHEETS

Contract #94434

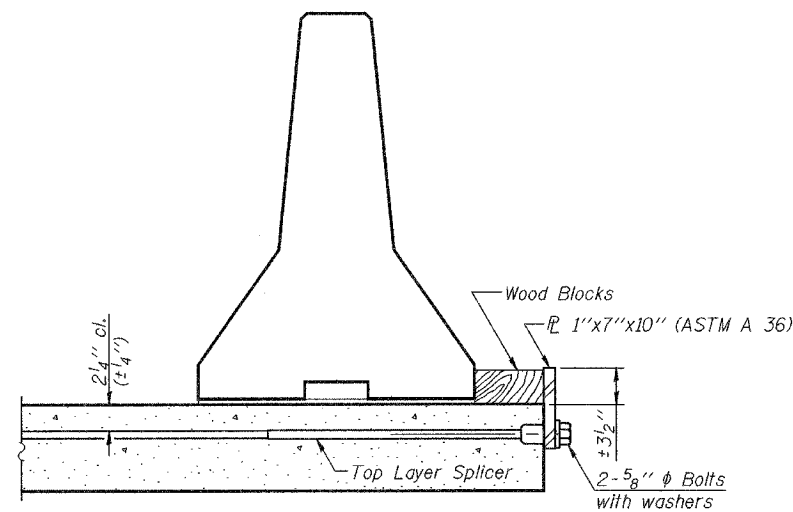


When "A" is 3'-6" or less, the temporary concrete barrier shall be anchored to the new slab according to Detail I or Detail II. No anchorage is required when "A" is greater than 3'-6".

NOTES

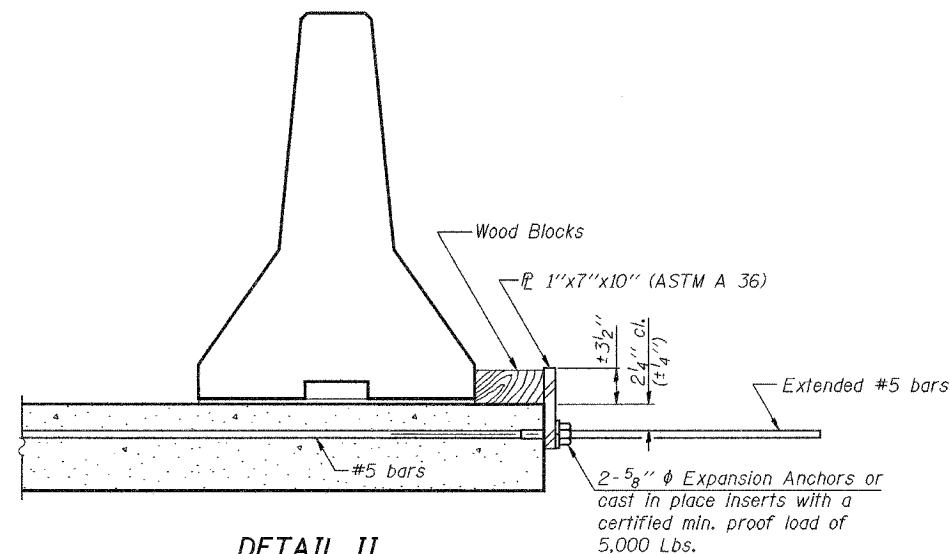
- Detail I - With Bar Splicer or Couplers:**
Connect one (1) 1"x7"x10" steel PL to the top layer of couplers with 2-5/8" φ bolts screwed to coupler at approximate CL of each barrier panel.
- Detail II - With Extended Reinforcement Bars:**
Connect one (1) 1"x7"x10" steel PL to the concrete slab with 2-5/8" φ Expansion Anchors or cast in place inserts spaced between the top layer of reinforcement at approximate CL of each barrier panel.
Cost of anchorage is included with Temporary Concrete Barrier.

SECTIONS THRU SLAB



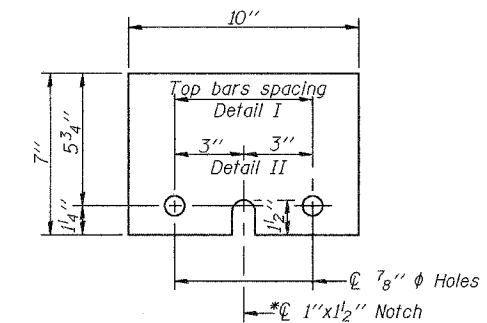
DETAIL I

The 1"x7"x10" Plate shall not be removed until Stage II Construction forms and reinforcement bars are in place.



DETAIL II

The 1"x7"x10" 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.



1"x7"x10"
*Required only with Detail II

DESIGNED	Patrick M Petrone
CHECKED	Phillip R Litchfield
DRAWN	R. Sommer
CHECKED	PMP/PRL

EXAMINED	Thomas J. Domagalaki	November 10, 2005
PASSED	Ralph E. Anderson	

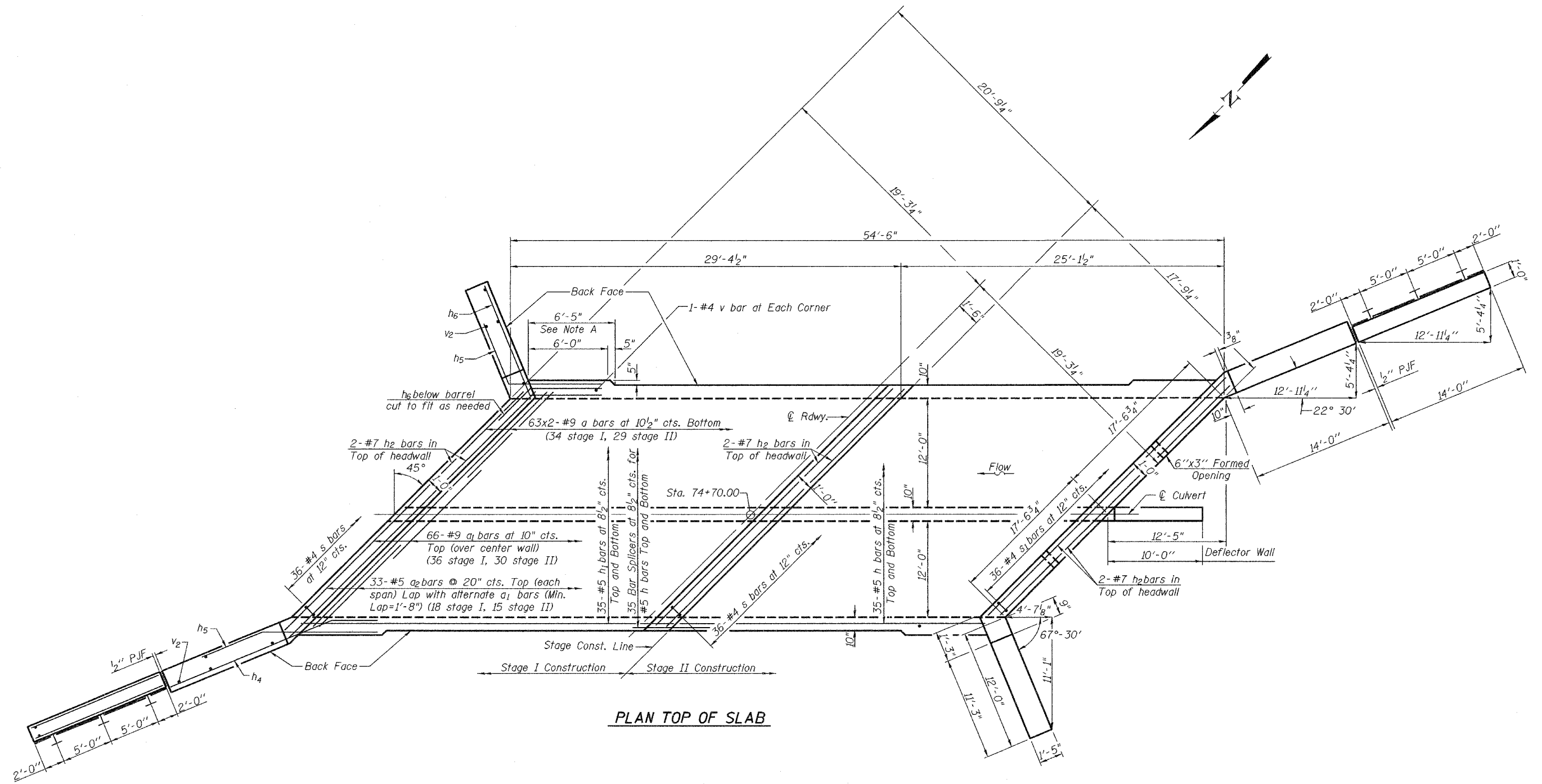
R-27 10-22-04

TEMPORARY CONCRETE BARRIER
FOR STAGE CONSTRUCTION
F.A.P. RT. 328 SEC. 109B-1
WHITE COUNTY
STATION 74+70.00
STRUCTURE No. 097-2012

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	SHEET	SHEET
F.A.U. 328	109 BR-1	WHITE	21	13
FED. ROAD DIST. NO. 7		ILLINOIS	FED. AID PROJECT -	

Contract #94434



PLAN TOP OF SLAB

DESIGNED Patrick M Petrone	November 10 2005
CHECKED Phillip R Litchfield	EXAMINED <i>Thomas J. Domagalaki</i>
DRAWN R. Sommer	PASSED <i>Ralph E. Anderson</i>
CHECKED PMP/PRL	

Notes:
See sheet 7 of 12 for Drain Details and Bill of Material.
See sheet 11 of 12 for Bar Splicer Details.

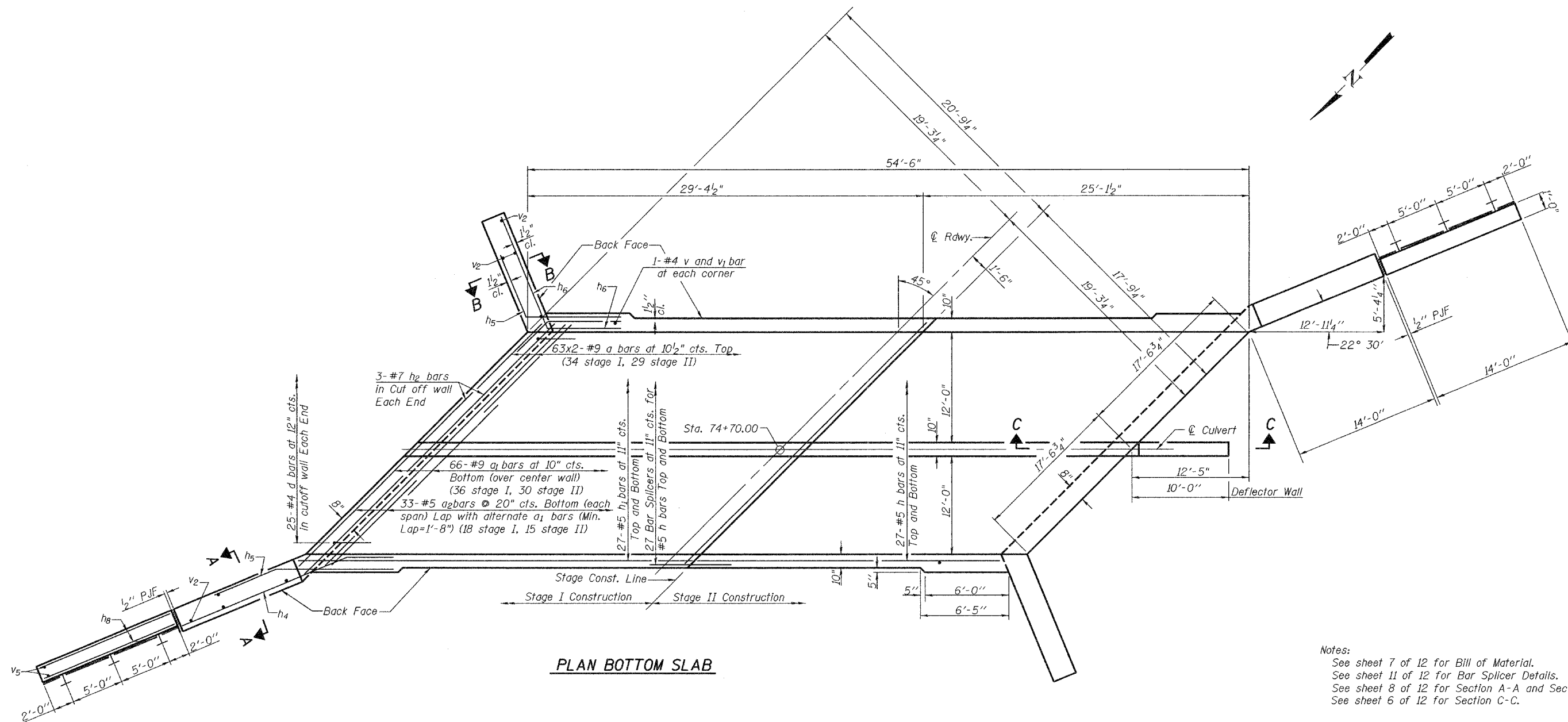
Note A:
At least seven feet of the barrel shall be poured monolithically with the wingwalls.

CULVERT DETAILS
F.A.P. RT. 328 SEC. 109B-1
WHITE COUNTY
STATION 74+70.00
STRUCTURE No. 097-2012

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	SHEET NO. 5
F.A.U. 328	109 BR-1	WHITE	21	14	12 SHEETS
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT			

Contract #94434



PLAN BOTTOM SLAB

Notes:
See sheet 7 of 12 for Bill of Material.
See sheet 11 of 12 for Bar Splicer Details.
See sheet 8 of 12 for Section A-A and Section B-B.
See sheet 6 of 12 for Section C-C.

DESIGNED	Patrick M. Petrone
CHECKED	Phillip R. Litchfield
DRAWN	R. Sommer
CHECKED	PMP/PRL

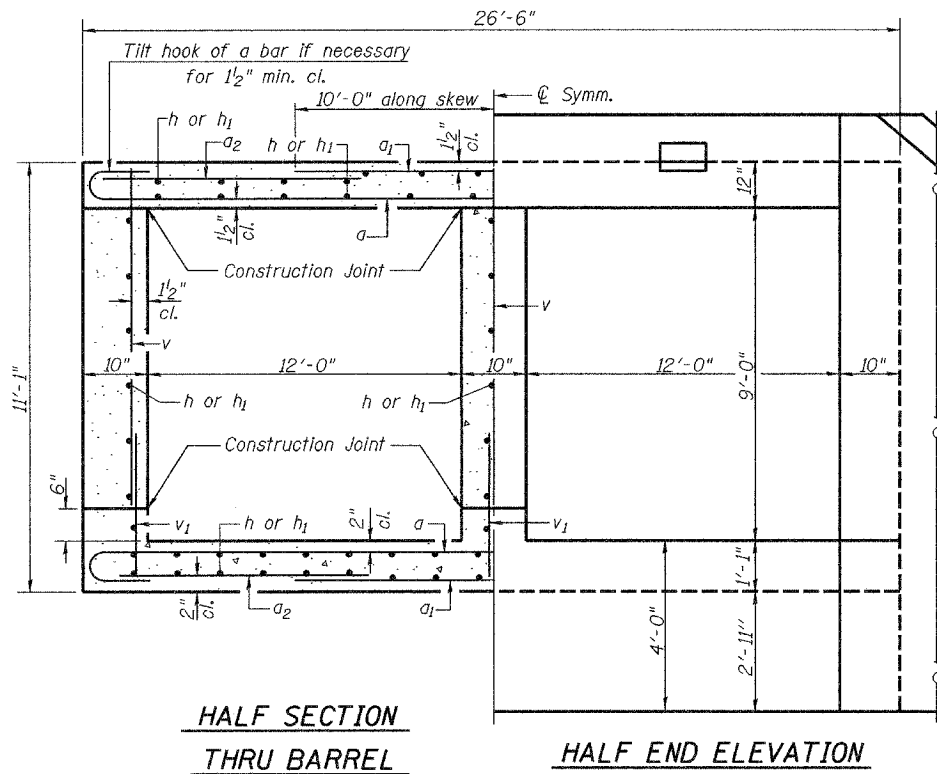
EXAMINED	November 10, 2005
PASSED	Thomas J. Domagala ENGINEER OF BRIDGE DESIGN
	Ralph E. Anderson ENGINEER OF BRIDGES AND STRUCTURES

CULVERT DETAILS
F.A.P. RT. 328 SEC. 109B-1
WHITE COUNTY
STATION 74+70.00
STRUCTURE No. 097-2012

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	DATE	SHEET	SHEET NO. 6 12 SHEETS
F.A.U. 328	109 BR-1	WHITE	21	15	
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT			

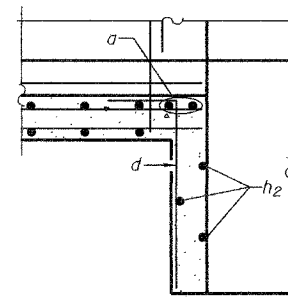
Contract #94434



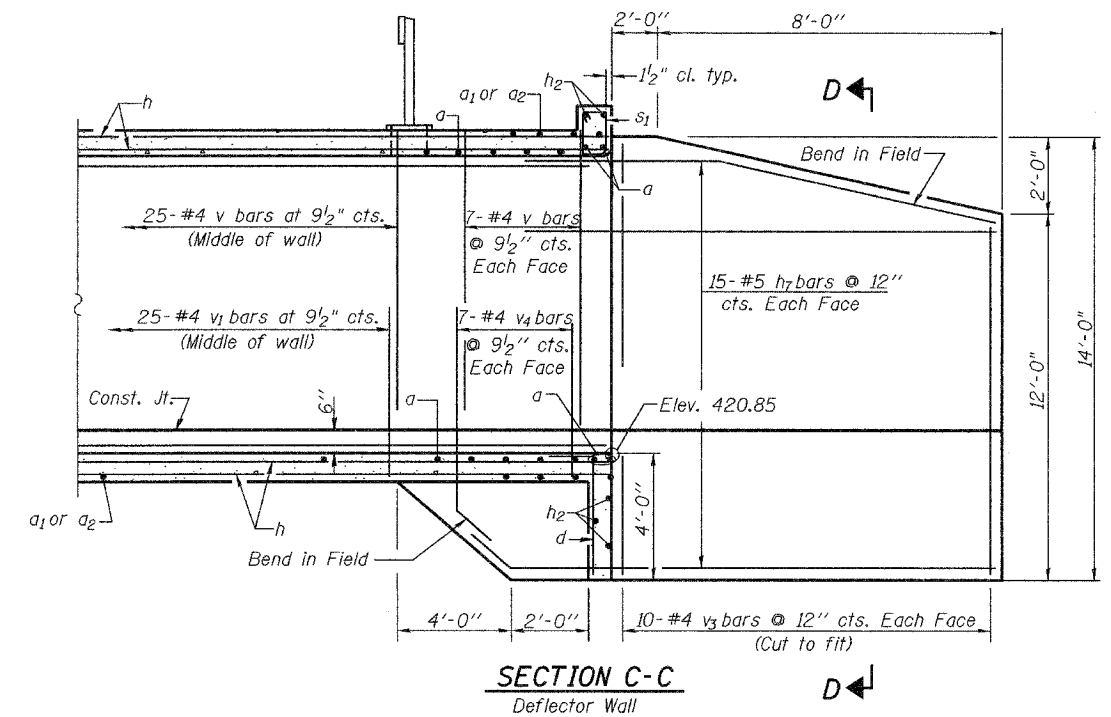
**HALF SECTION
THRU BARREL**

HALF END ELEVATION

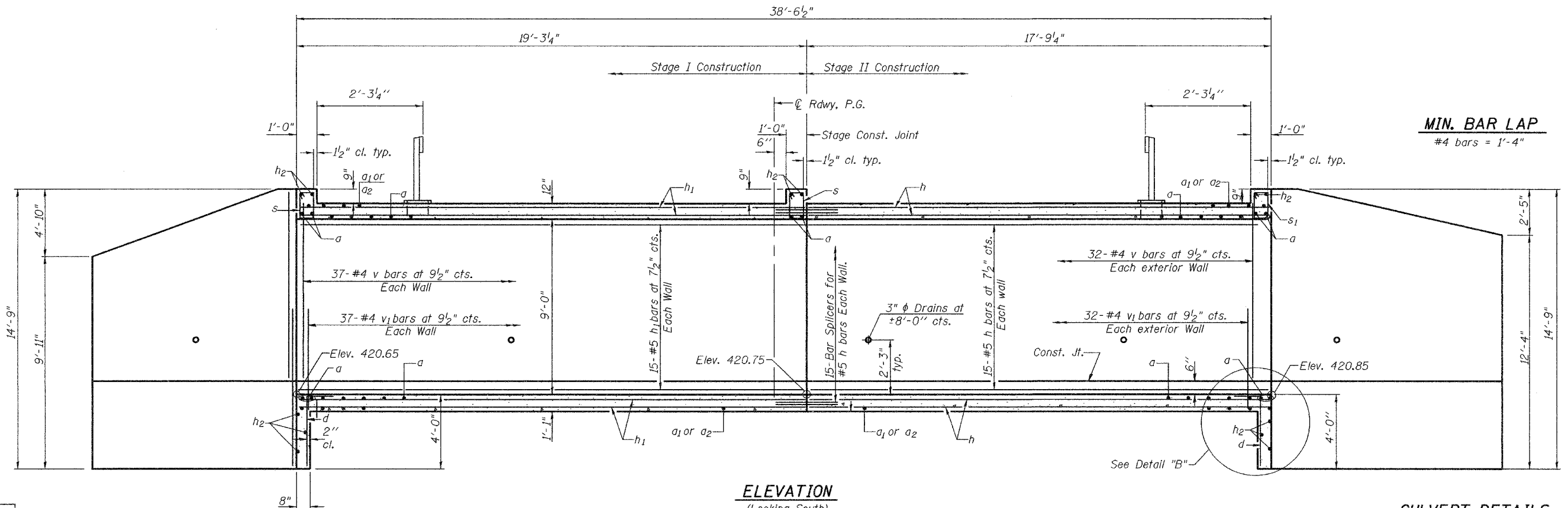
(Dimensions as Rt. L's except as shown)



DETAIL "B"



**SECTION C-C
Deflector Wall**



ELEVATION

(Looking South)
(Dimensions are at right angles to \perp Roadway)

DESIGNED	Patrick M Petrone
CHECKED	Phillip R Litchfield
DRAWN	R. Sommer
CHECKED	PMP/PRL

EXAMINED	November 10 2005 Thomas J. Domagalick ENGINEER OF BRIDGE DESIGN
PASSED	Ralph E. Anderson ENGINEER OF BRIDGES AND STRUCTURES

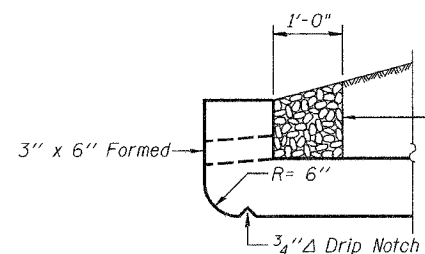
Notes:
See sheet 4 & 5 of 12 for Slab Details.
See sheet 8 of 12 for Wingwall Details.
See sheet 7 of 12 for Bill of Material.
See sheet 11 of 12 for Bar Splicer Details.
See sheet 7 of 12 for Section D-D.

CULVERT DETAILS
F.A.P. RT. 328 SEC. 109B-1
WHITE COUNTY
STATION 74+70.00
STRUCTURE No. 097-2012

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

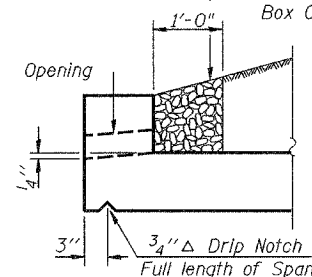
ROUTE NO.	SECTION	COUNTY	SHEET NO.	SHEET	SHEET NO. 7
F.A.U. 328	109 BR-1	WHITE	21	16	12 SHEETS
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT-			

Contract #94434

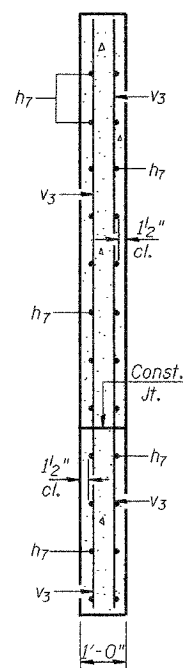


AT UPSTREAM END

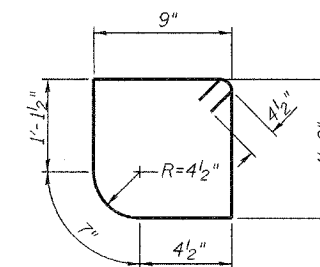
Coarse aggregate full length of both headwalls. To be placed by Grading Contractor. Cost included with Concrete Box Culverts.



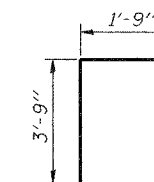
**AT DOWNSTREAM END
DRAIN DETAIL**



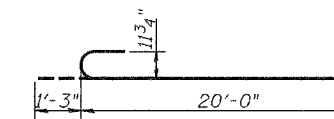
SECTION D-D



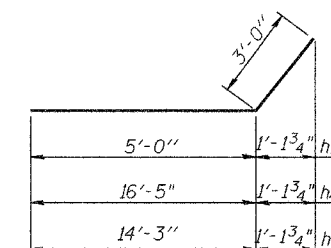
BAR s1



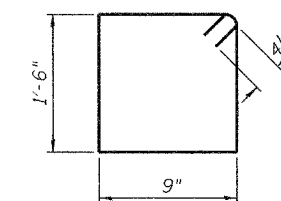
BAR d



BAR a



BARS h5, h4 & h6



BAR s

BILL OF MATERIAL

Bar	No.	Size	Length	Shape
a	252	#9	21'-3"	—
a1	132	#9	20'-0"	—
a2	132	#5	9'-3"	—
d	50	#4	5'-6"	└┘
h	169	#5	24'-10"	—
h1	169	#5	29'-1"	—
h2	12	#7	34'-2"	—
h3	40	#4	25'-11"	—
h4	30	#9	19'-5"	—
h5	72	#9	8'-0"	—
h6	24	#9	15'-3"	—
h7	30	#5	15'-9"	—
s	72	#4	5'-3"	└┘
s1	36	#4	5'-1"	└┘
v	218	#4	9'-3"	—
v1	204	#4	2'-7"	—
v2	16	#4	14'-6"	—
v3	20	#4	13'-9"	—
v4	14	#4	5'-7"	—
Concrete Box Culverts		Cu. Yd.	208.9	
Reinforcement Bars		Pound	47820	

DESIGNED	Patrick M. Petrone
CHECKED	Phillip R. Litchfield
DRAWN	R. Sommer
CHECKED	PMP/PRL

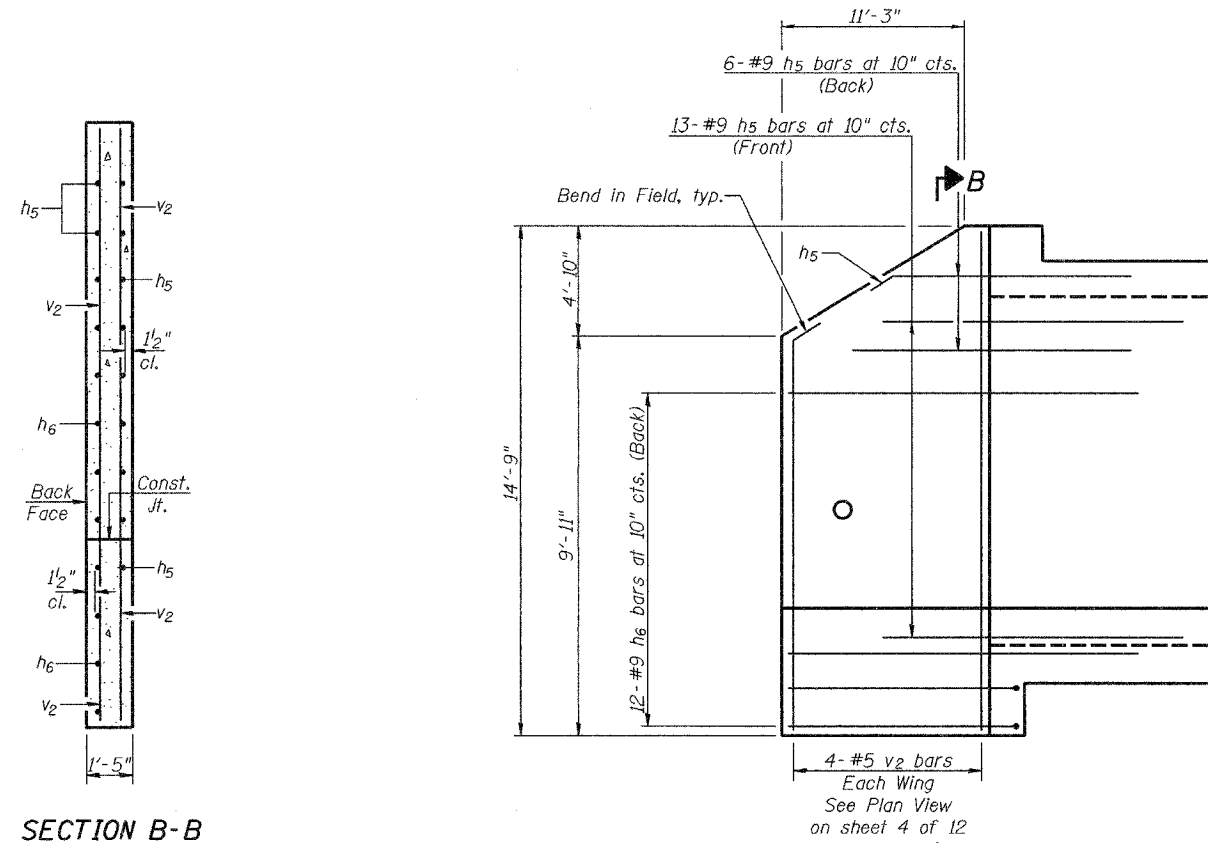
EXAMINED	Thomas J. Domagala	November 10, 2005
PASSED	Ralph E. Anderson	

CULVERT DETAILS
F.A.P. RT. 328 SEC. 109B-1
WHITE COUNTY
STATION 74+70.00
STRUCTURE No. 097-2012

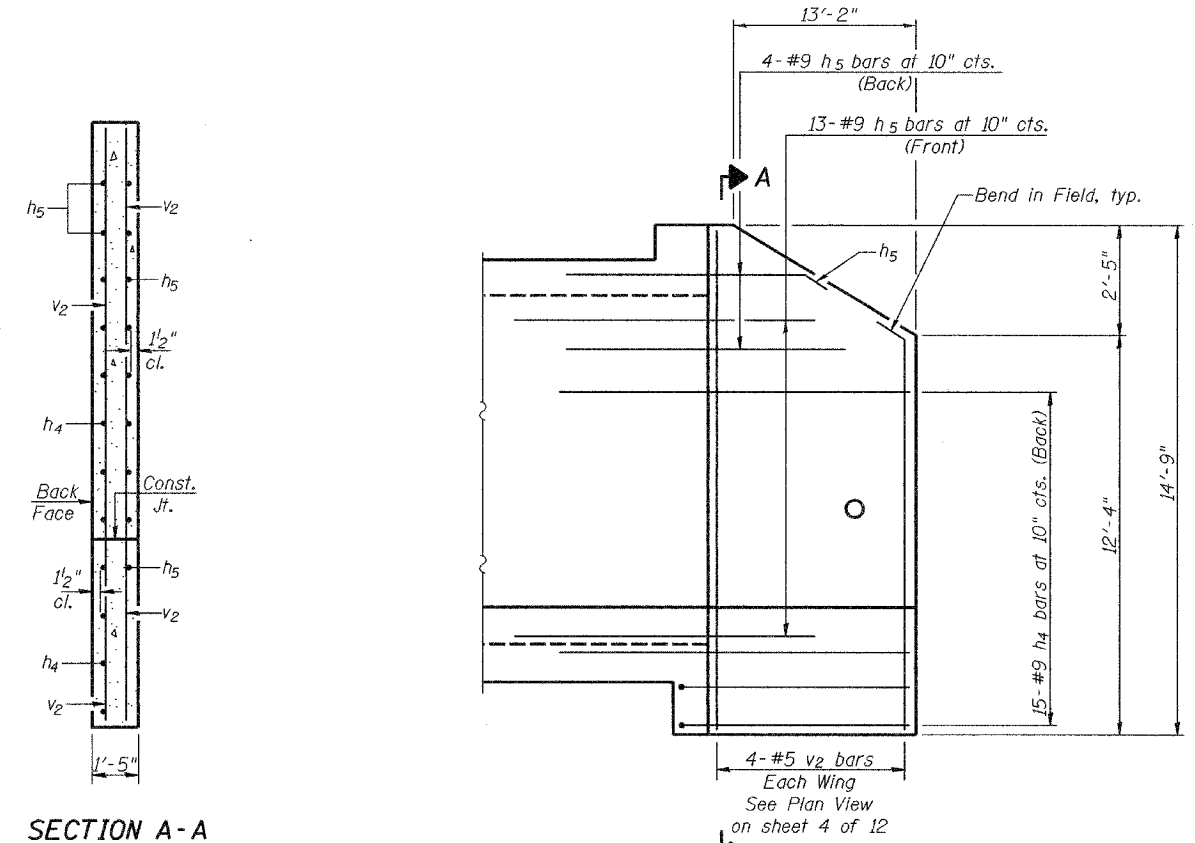
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.U. 328	109 BR-1	WHITE	21	17
FED. ROAD DIST. NO. 7		ILLINOIS	FED. AID PROJECT-	

Contract #94434



ELEVATION
S.E. & N.W. Wingwalls



ELEVATION
S.W. & N.E. Wingwalls

DESIGNED	Patrick M. Petrone
CHECKED	Phillip R. Litchfield
DRAWN	R. Sommer
CHECKED	PMP/PRL

EXAMINED	November 10, 2005	Thomas J. Domagala
PASSED		Ralph E. Anderson

Notes:
See sheet 7 of 12 for Bill of Material.

CULVERT DETAILS
F.A.P. RT. 328 SEC. 109B-1
WHITE COUNTY
STATION 74+70.00
STRUCTURE No. 097-2012

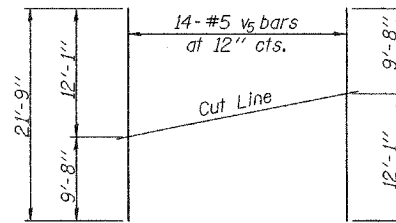
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET
F.A.U. 328	109 BR-1	WHITE	21	18
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT		

SHEET NO. 9

12 SHEETS

Contract #94434



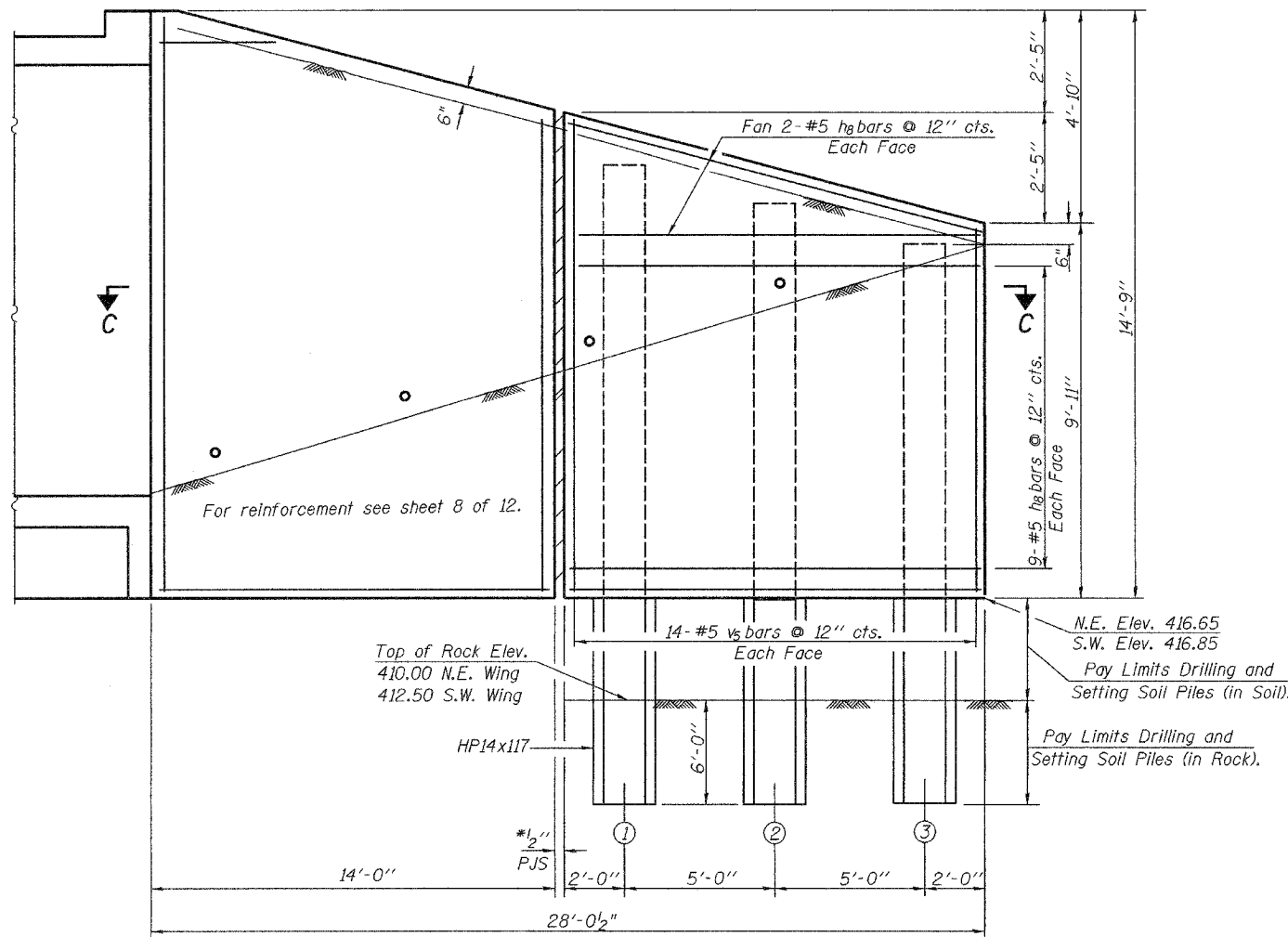
FIELD CUTTING DIAGRAM
Order #5 bars full length. Cut as shown and use remainder of bars in opposite face.

CONSTRUCTION SEQUENCE FOR WING WALLS

- 1) Construct horizontal cantilever wall.
- 2) Drill holes for soldier piles.
- 3) Set Soldier Piles and place concrete.
- 4) Place timber lagging for soldier pile wall.
- 5) Place geocomposite wall drain against the front face of timber lagging.
- 6) Place back fill behind wall.
- 7) Weld shear studs to soldier piles, place reinforcement bars and formwork, pour concrete wall.
- 8) Place fill and riprap at front face of the wall.

BILL OF MATERIAL

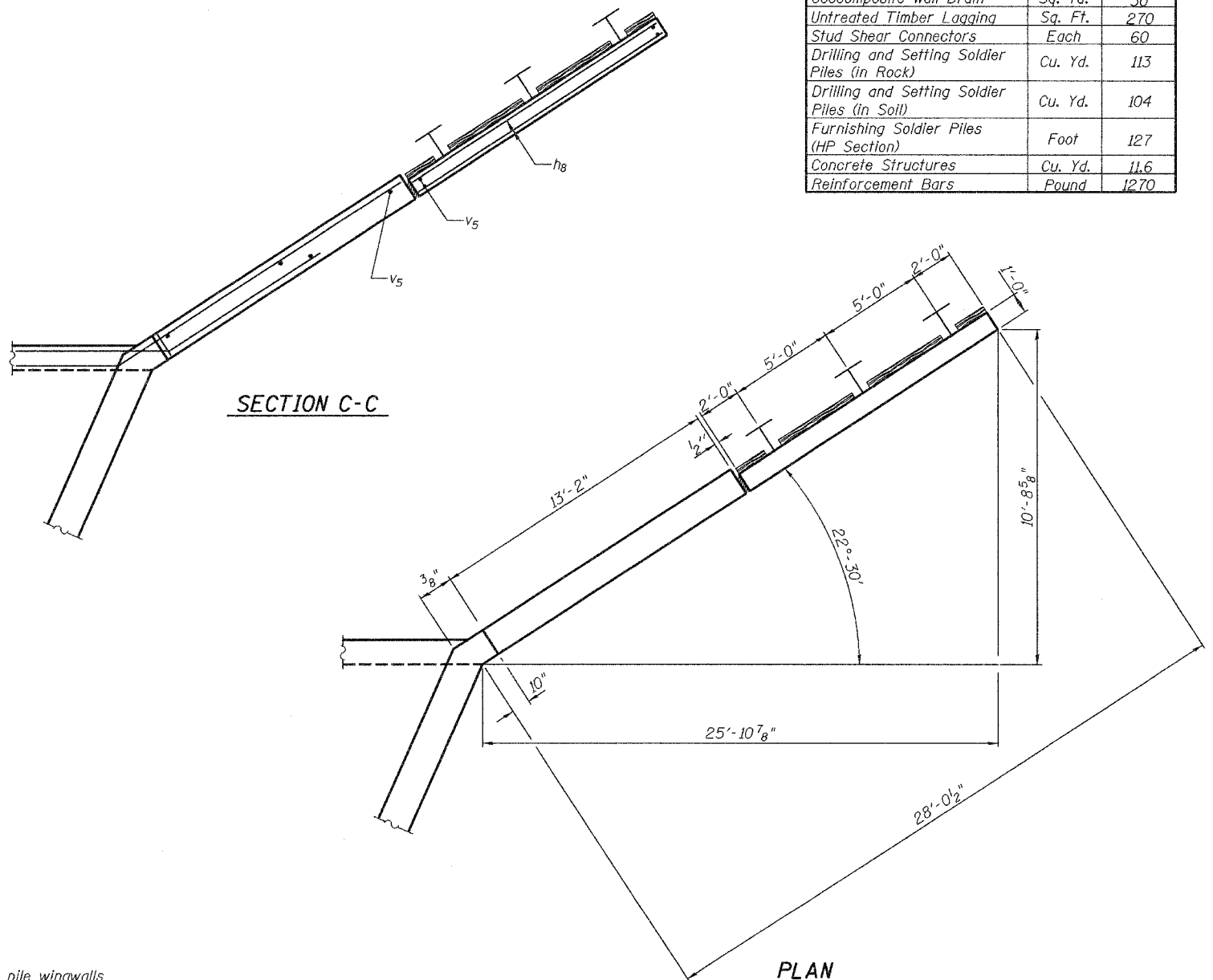
Bar	No.	Size	Length	Shape
h ₈	44	#5	13'-9"	—
v ₅	28	#5	21'-9"	—
Geocomposite Wall Drain		Sq. Yd.	30	
Untreated Timber Lagging		Sq. Ft.	270	
Stud Shear Connectors		Each	60	
Drilling and Setting Soldier Piles (in Rock)		Cu. Yd.	113	
Drilling and Setting Soldier Piles (in Soil)		Cu. Yd.	104	
Furnishing Soldier Piles (HP Section)		Foot	127	
Concrete Structures		Cu. Yd.	11.6	
Reinforcement Bars		Pound	1270	



ELEVATION

S.W. & N.E. Wingwall

*Cost included with Concrete Structures



SECTION C-C

PLAN

- Notes:
- The cost of concrete for soldier pile wingwalls is included with Concrete Structures.
 - The embankment material shall be placed against the rear face of timber lagging for the soldier pile wingwall prior to pouring the concrete facing.
 - When compacting the fill behind the wingwalls, the Contractor shall use manually operated equipment as approved by the Engineer.

SOLDIER PILE DETAILS
F.A.P. RT. 328 SEC. 109B-1
WHITE COUNTY
STATION 74+70.00
STRUCTURE No. 097-2012

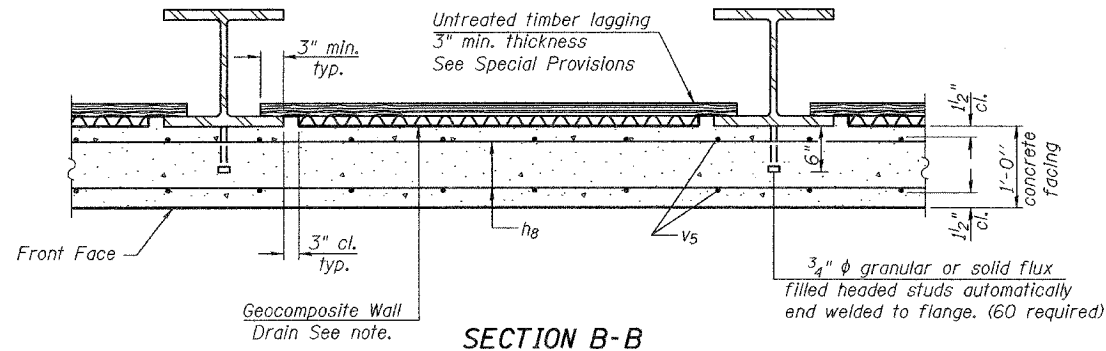
DESIGNED	Patrick M. Petrone
CHECKED	Phillip R. Litchfield
DRAWN	R. Sommer
CHECKED	PMP/PRL

EXAMINED	November 10, 2005
PASSED	Thomas J. Domagala ENGINEER OF BRIDGE DESIGN
	Ralph E. Anderson ENGINEER OF BRIDGES AND STRUCTURES

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

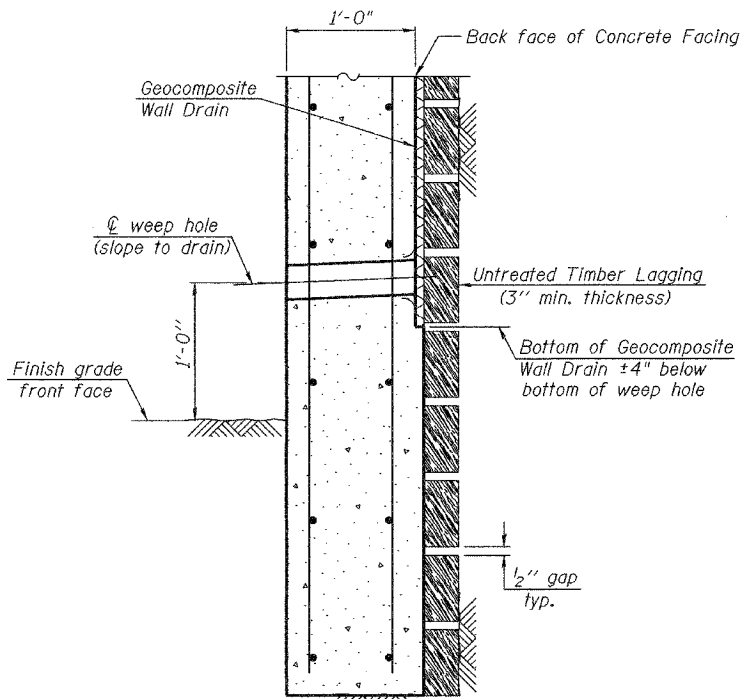
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	SHEET NO. 10 12 SHEETS
F.A.U. 328	109 BR-1	WHITE	21	19	
FED. ROAD DIST. NO. 7		ILLINOIS		FED. AID PROJECT-	

Contract #94434

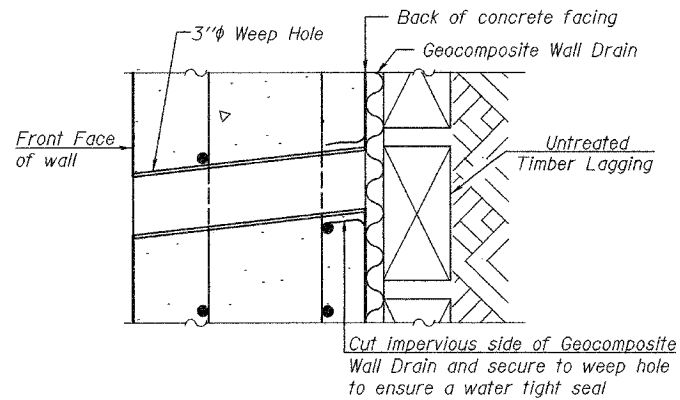


SECTION B-B

Note: Geocomposite Wall Drain shall not have a thickness greater than 3/4".



WEEP HOLE DRAIN



WEEP HOLE DRAIN DETAIL

Cost for the weep hole drain and the connection to the geocomposite wall drain are included with Concrete Structures.

NORTH EAST WINGWALL

Pile #	Top Elev.	Tip Elev.	*Length (ft.)
1	427.13	404.00	23.13
2	426.27	404.00	22.27
3	425.41	404.00	21.41

SOUTH WEST WINGWALL

Pile #	Top Elev.	Tip Elev.	*Length (ft.)
1	427.33	406.50	20.83
2	426.47	406.50	19.97
3	425.61	406.50	19.11

TABLE A

*The length of HP14x117 have been rounded to the nearest 6".

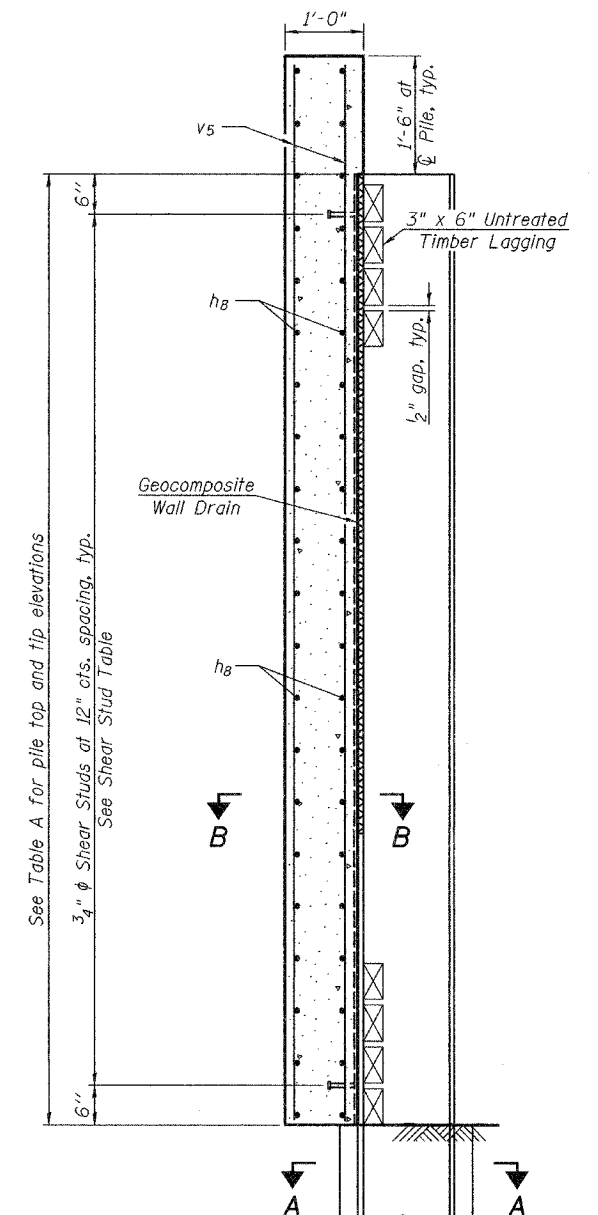
NORTH EAST SOLDIER PILE

Pile #	# Studs/Pile
1	11
2	10
3	9

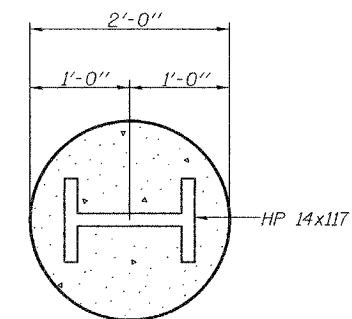
SOUTH WEST SOLDIER PILE

Pile #	# Studs/Pile
1	11
2	10
3	9

SHEAR STUD TABLE



SECTION THRU SOLDIER PILE WALL



SECTION A-A

SOLDIER PILE DETAILS
F.A.P. RT. 328 SEC. 109B-1
WHITE COUNTY
STATION 74+70.00
STRUCTURE No. 097-2012

DESIGNED	Patrick M Petrone
CHECKED	Phillip R Litchfield
DRAWN	R. Sommer
CHECKED	PMP/PRL

EXAMINED	November 10 2005
PASSED	Thomas J. Demagalaki ENGINEER OF BRIDGE DESIGN
	Ralph E. Anderson ENGINEER OF BRIDGES AND STRUCTURES

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	SHEET NO.	SHEET NO.
F.A.U. 328	109 BR-1	WHITE	21	20
FED. ROAD DIST. NO. 7		ILLINOIS	FED. AID PROJECT	

Contract #94434

NOTES

Bar splicer assemblies shall be of an approved type and shall develop in tension at least 125 percent of the yield strength of the lapped reinforcement bars.
Splicer rods shall be of minimum 60 ksi yield strength, threaded or coiled full length.
All reinforcement bars shall be lapped and tied to the splicer rods or dowel bars.
Bar splicer assemblies shall be epoxy coated according to the requirements for reinforcement bars.
Other systems of similar design may be submitted to the Engineer for approval. Approval shall be based on certified test results from an approved testing laboratory that the proposed bar splicer assembly satisfies the following requirements:

- ① Minimum Capacity = $1.25 \times f_y \times A_t$
(Tension in kips)
- ② Minimum *Pull-out Strength = $1.25 \times f_{s_{allow}} \times A_t$
(Tension in kips)

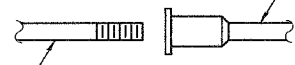
Where f_y = Yield strength of lapped reinforcement bars in ksi.
 $f_{s_{allow}}$ = Allowable tensile stress in lapped reinforcement bars in ksi (Service Load)
A = Tensile stress area of lapped reinforcement bars.
* t = 28 day concrete

BAR SPLICER ASSEMBLIES			
Bar Size to be Spliced	Splicer Rod or Dowel Bar Length	Strength Requirements	
		Min. Capacity kips - tension	Min. Pull-Out Strength kips - tension
#4	1'-8"	14.7	5.9
#5	2'-0"	23.0	9.2
#6	2'-7"	33.1	13.3
#7	3'-5"	45.1	18.0
#8	4'-6"	58.9	23.6
#9	5'-9"	75.0	30.0
#10	7'-3"	95.0	38.0
#11	9'-0"	117.4	46.8

Bar splicer assemblies shall be according to Section 508 of the Standard Specifications, except as noted. The furnishing and installation of bar splicer assemblies will be measured and paid for at the contract unit price each for "BAR SPLICERS."

The diameter of this part is equal or larger than the diameter of bar spliced.

The diameter of this part is the same as the diameter of the bar spliced.



ROLLED THREAD DOWEL BAR



**ONE PIECE

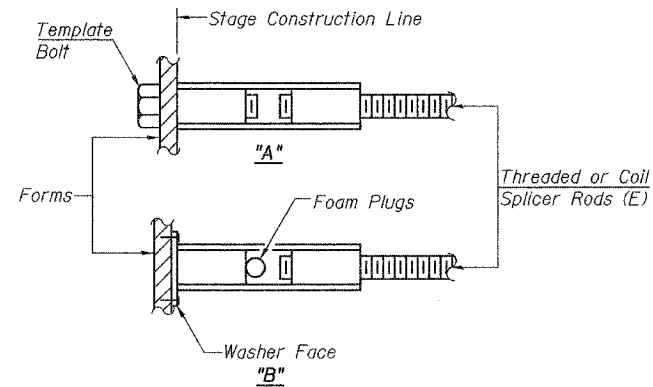
Wire Connector



WELDED SECTIONS

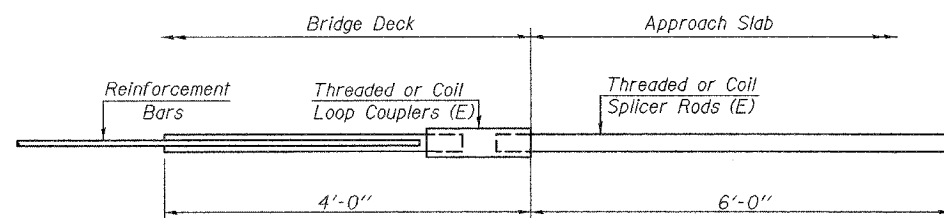
BAR SPLICER ASSEMBLY ALTERNATIVES

**Heavy Hex Nuts conforming to ASTM A 563, Grade C, D or DH may be used.



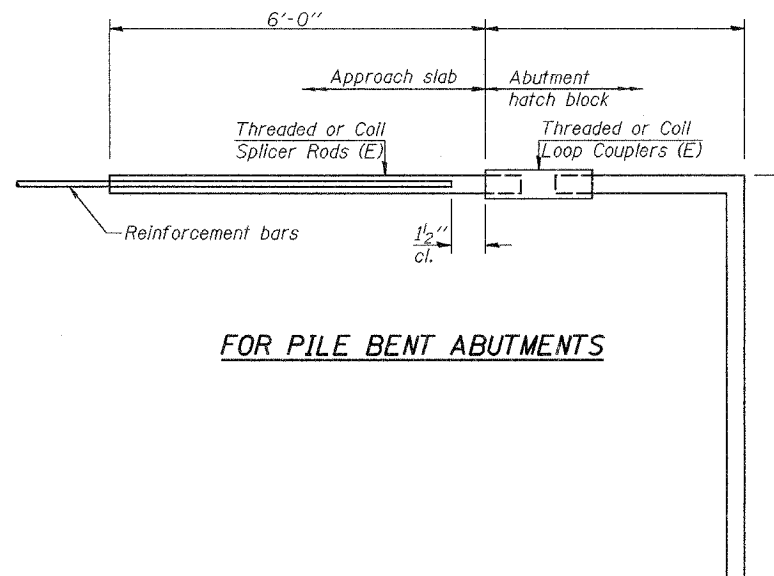
INSTALLATION AND SETTING METHODS

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



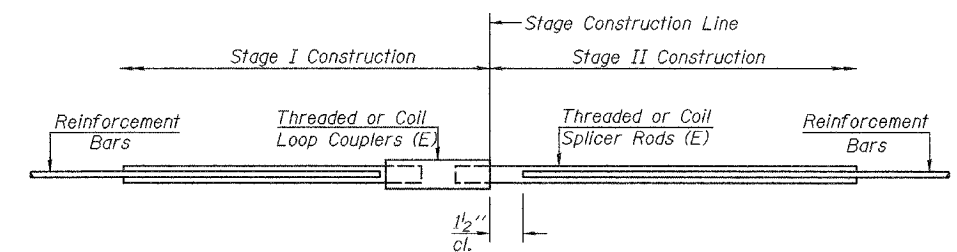
FOR INTEGRAL OR SEMI-INTEGRAL ABUTMENTS

Bar Splicer for #5 bar
Min. Capacity = 23.0 kips - tension
Min. Pull-out Strength = 9.2 kips - tension
No. Required =



FOR PILE BENT ABUTMENTS

Bar Splicer for #5 bar
Min. Capacity = 23.0 kips - tension
Min. Pull-out Strength = 9.2 kips - tension
No. Required =



STANDARD

Bar Size	No. Assemblies Required	Location
#5	70	Top Slab
#5	30	Sidewall
#5	54	Bottom Slab
#5	15	Center Wall

BAR SPLICER ASSEMBLY DETAILS

F.A.P. RT. 328 SEC. 109B-1
WHITE COUNTY
STATION 74+70.00
STRUCTURE No. 097-2012

DESIGNED Patrick M Petrone
CHECKED Phillip R Litchfield
DRAWN R. Sommer
CHECKED PMP/PRL
BSD-1 10-22-04

November 10 2005
EXAMINED Thomas J. Domagala
PASSED Ralph E. Anderson
ENGINEER OF BRIDGE DESIGN
ENGINEER OF BRIDGES AND STRUCTURES

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.U. 328	109	WHITE	21	21
FED. ROAD DIST. NO. 7		ILLINOIS	FED. AID PROJECT-	

Contract #94434

Illinois Department of Transportation
Division of Highways
District 7 Materials

SOIL BORING LOG Page 1 of 2

ROUTE FAP 328 (US 45) DESCRIPTION Seven Mile Creek LOGGED BY E. Sandschafer

SECTION 109B-1 LOCATION Sec 28 - NW 14, Sec 29 - NE 14, SEC., TWP. 5 S. RNG. 8 E. 3 PM

COUNTY White DRILLING METHOD Hollow Stem Auger & Split Spoon HAMMER TYPE Auto 140#

STRUCT. NO. 097-0025 Station _____

BORING NO. 1 Station 52' S of center existing bridge
Offset 14.00R W of CL
Ground Surface Elev. 432.05 ft

DEPTH (ft)	LOG	U	M	Surface Water Elev.	Stream Bed Elev.	Groundwater Elev.:	First Encounter	Upon Completion	Washed	ft	After	Hrs.	Samples	ft
431.55	Existing aggregate shoulder.			421.63	421.28									
430.05	Red, CLAY w/some sand.	4												
427.55	Stiff, damp, brown mottled gray, SILTY LOAM.	6	1.3											
426.05	Soft to medium, damp, red w/ black specks, SANDY LOAM.	3	0.5											
425.05	Very soft, very damp, gray, SILTY LOAM w/many wood fragments.	1	0.1											
422.55	Stiff, damp, red & gray, CLAY LOAM.	3	1.4											
419.75	* 500", 600", 500"	3	1.8											
412.95	** Very dense, moist, gray, SANDSTONE, very hard. Fractured into 1/8" chips.	5	1.6											
413.75	SANDY CLAY SHALE.	3	2.0											
412.15	**	4												

Borehole continued with rock coring.

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 T208)
BBS, from 137 (Rev. 8-99)

Illinois Department of Transportation
Division of Highways
District 7 Materials

ROCK BORING LOG Page 2 of 2

ROUTE FAP 328 (US 45) DESCRIPTION Seven Mile Creek LOGGED BY E. Sandschafer

SECTION 109B-1 LOCATION Sec 28 - NW 14, Sec 29 - NE 14, SEC., TWP. 5 S. RNG. 8 E. 3 PM

COUNTY White CORING METHOD Rotary, surface set diamond bit

STRUCT. NO. 097-0025 Station _____

BORING NO. 1 Station 52' S of center existing bridge
Offset 14.00R W of CL
Ground Surface Elev. 432.05 ft

DEPTH (ft)	LOG	R	C	Q	U	Core	Strength
412.75	Very hard, gray, SANDSTONE w/lew 12" seams of Clay Shale.	100	49				
407.05	Gray, slightly weathered, CLAY SHALE.	100	63				
406.55	Hard, gray, SANDSTONE.						
399.45	Gray, slightly weathered, SANDY CLAY SHALE.						
397.75	Extent of exploration.						
431.78	Benchmark: BM #204 RR spike in telephone pole Station 75+34, Lt 39', Elevation = 431.78'						

Color pictures of the cores _____
Cores will be stored for examination until _____
The "Strength" column represents the uniaxial compressive strength of the core sample (ASTM D-2938)
BBS, form 138 (Rev. 8-99)

Illinois Department of Transportation
Division of Highways
District 7 Materials

SOIL BORING LOG Page 1 of 1

ROUTE FAP 328 (US 45) DESCRIPTION Seven Mile Creek LOGGED BY E. Sandschafer

SECTION 109B-1 LOCATION Sec 28 - NW 14, Sec 29 - NE 14, SEC., TWP. 5 S. RNG. 8 E. 3 PM

COUNTY White DRILLING METHOD Hollow Stem Auger & Split Spoon HAMMER TYPE Auto 140#

STRUCT. NO. 097-0025 Station _____

BORING NO. 2 Station 52' N of center existing bridge
Offset 15.00R E of CL
Ground Surface Elev. 431.97 ft

DEPTH (ft)	LOG	U	M	Surface Water Elev.	Stream Bed Elev.	Groundwater Elev.:	First Encounter	Upon Completion	Washed	ft	After	Hrs.	Samples	ft
431.47	Existing aggregate shoulder.			421.63	421.28									
429.97	Red, CLAY w/some sand.	2												
424.97	Stiff to medium, damp, red mottled gray, CLAY LOAM.	3	1.5											
424.97	Soft to medium, damp to very damp, red to gray, SILTY LOAM.	1	0.5											
419.27	Very stiff, damp, red mottled gray, CLAY.	2	1.5											

Benchmark: BM #204 RR spike in telephone pole Station 75+34, Lt 39', Elevation = 431.78'

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 T208)
BBS, from 137 (Rev. 8-99)

Illinois Department of Transportation
Division of Highways
District 7 Materials

SOIL BORING LOG Page 1 of 1

ROUTE FAP 328 (US 45) DESCRIPTION Seven Mile Creek LOGGED BY E. Sandschafer

SECTION 109B-1 LOCATION Sec 28 - NW 14, Sec 29 - NE 14, SEC., TWP. 5 S. RNG. 8 E. 3 PM

COUNTY White DRILLING METHOD Hollow Stem Auger & Split Spoon HAMMER TYPE Auto 140#

STRUCT. NO. 097-0025 Station _____

BORING NO. 3 Station 4' S of center of existing bridge
Offset 14.00R E of CL
Ground Surface Elev. 431.98 ft

DEPTH (ft)	LOG	U	M	Surface Water Elev.	Stream Bed Elev.	Groundwater Elev.:	First Encounter	Upon Completion	Washed	ft	After	Hrs.	Samples	ft
431.29	Existing aggregate shoulder.			421.63	421.28									
429.99	Brown, SANDY CLAY w/many 1" topsize gravel.	3	0.8											
422.49	Medium, damp, brown, CLAY LOAM w/many 1/4" pebbles.	2	0.8											
419.99	Stiff, damp, red marbled gray, CLAY LOAM.	2	1.7											
415.99	Very stiff, damp, red mottled gray, CLAY.	4	2.2											
413.46	Wet, red, medium grained, SAND, Tan, soft, SANDY CLAY SHALE.	6												

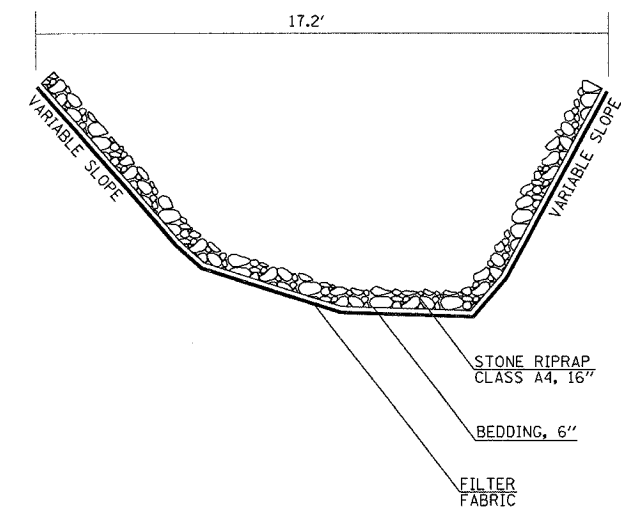
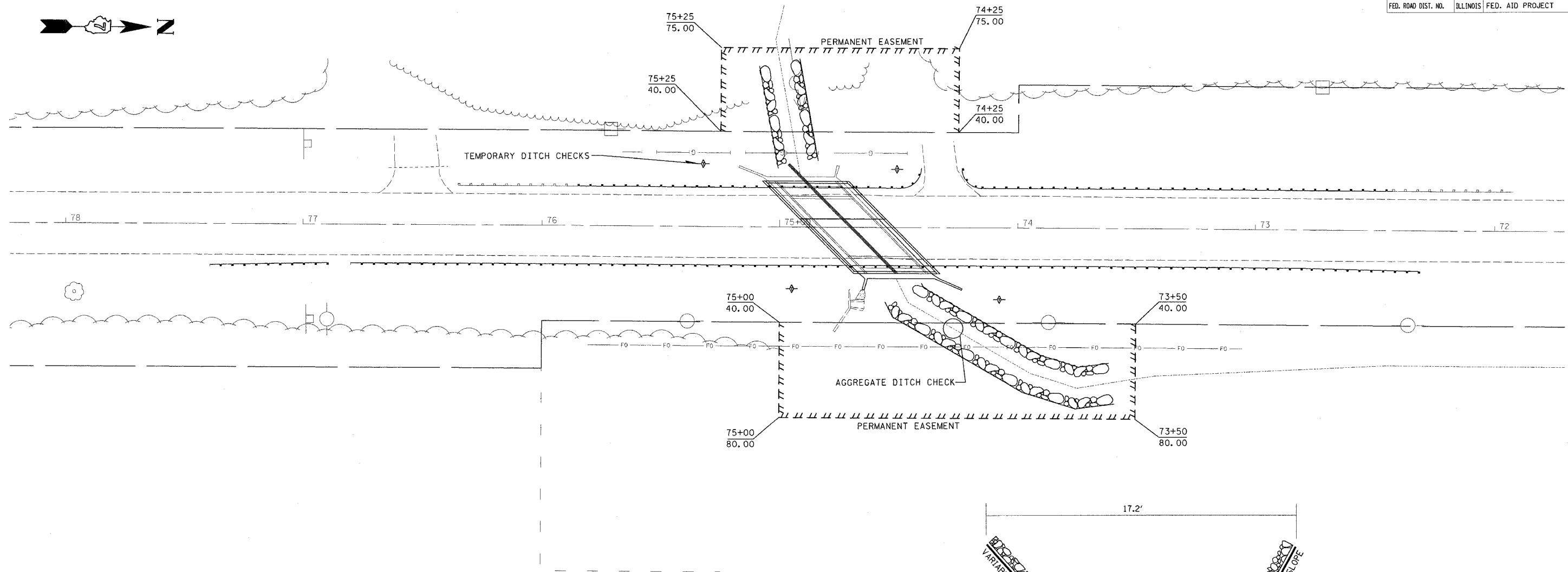
Benchmark: BM #204 RR spike in telephone pole Station 75+34, Lt 39', Elevation = 431.78'

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 T208)
BBS, from 137 (Rev. 8-99)

BORING LOGS
FOR STAGE CONSTRUCTION
F.A.P. RT. 328 SEC. 109B-1
WHITE COUNTY
STATION 74+70.00
STRUCTURE No. 097-2012

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
328	109B-1	WHITE	26	22
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

SC 1



STONE RIP RAP DETAIL

STONE RIPRAP CLASS A4

UPSTREAM	132 SQ YD
DOWNSTREAM	263 SQ YD

FILTER FABRIC FOR USE WITH RIPRAP

UPSTREAM	132 SQ YD
DOWNSTREAM	263 SQ YD

EROSION CONTROL GENERAL NOTES

EROSION CONTROL MEASURES AT THE START OF CONSTRUCTION:

- THE AREAS OF EXCAVATION AND EMBANKMENT PLACEMENT SHALL BE MANAGED FOR THE PURPOSES OF CONTROLLING EROSION WITHIN THE IMPROVEMENT AREA, REDUCING WATER FLOW BY TEMPORARY DIVERSION, MINIMIZING SILTATION AT THE RIGHT-OF-WAY LINE, AND ESTABLISHING VEGETATIVE COVER WHICH WILL BECOME PERMANENT VEGETATION AND ACT AS AN EROSION CONTROL BARRIER. WORK AT THE START OF CONSTRUCTION SHALL CONSIST OF THE FOLLOWING:
 - AREAS OF EXISTING VEGETATION (WOODS AND GRASSLANDS) OUTSIDE THE PROPOSED CONSTRUCTION LIMITS SHALL BE IDENTIFIED FOR PRESERVING AND SHALL BE PROTECTED FROM MOWING, BRUSH CUTTING, TREE REMOVAL, AND OTHER ACTIVITIES THAT WOULD BE DETRIMENTAL TO THEIR MAINTENANCE AND DEVELOPMENT.
 - DEAD, DISEASED, OR UNSUITABLE VEGETATION WITHIN THE SITE SHALL BE REMOVED AS DIRECTED BY THE ENGINEER.
 - BARE AND SPARSELY VEGETATED GROUND IN HIGHLY ERODABLE AREAS AS DETERMINED BY THE ENGINEER SHALL BE TEMPORARILY SEEDED AT THE START OF CONSTRUCTION WHEN NO CONSTRUCTION ACTIVITIES ARE EXPECTED WITHIN SEVEN CALENDAR DAYS.

EROSION CONTROL MEASURES DURING CONSTRUCTION:

- DURING CONSTRUCTION, AREAS OUTSIDE THE CONSTRUCTION LIMITS AS OUTLINED PREVIOUSLY HEREIN SHALL BE PROTECTED FROM DAMAGING EFFECTS OF CONSTRUCTION. THE CONTRACTOR SHALL NOT USE THIS AREA FOR PARKING OF VEHICLES OR CONSTRUCTION EQUIPMENT, STORAGE OF MATERIALS, OR OTHER CONSTRUCTION RELATED ACTIVITIES.
 - WITHIN THE CONSTRUCTION ZONE, CRITICAL AREAS WHICH HAVE A HIGH FLOW OF WATER, AS DETERMINED BY THE ENGINEER, SHALL REMAIN UNDISTURBED UNTIL CONTINUOUS OPERATIONS CAN ENSURE TIMELY COMPLETION OF WORK IN THESE AREAS TO MINIMIZE SOIL EROSION.
 - EARTH STOCKPILES SHALL BE TEMPORARILY SEEDED IF THEY ARE TO REMAIN UNUSED FOR MORE THAN FOURTEEN CALENDAR DAYS.

EROSION CONTROL MEASURES AFTER FINAL GRADING:

- EXCAVATION AND EMBANKMENT AREAS SHALL BE PERMANENTLY SEEDED WHEN FINAL GRADE. EROSION CONTROL BLANKET SHALL BE PLACED ON ALL DISTURBED AREAS.
 - TEMPORARY EROSION CONTROL SYSTEMS SHALL REMAIN IN PLACE WITH PROPER MAINTENANCE UNTIL PERMANENT EROSION CONTROL IS IN PLACE AND WORKING PROPERLY WITH ALL PROPOSED TURF AREAS SEEDED AND A PROPER STAND ESTABLISHED.

REVISIONS	
NAME	DATE

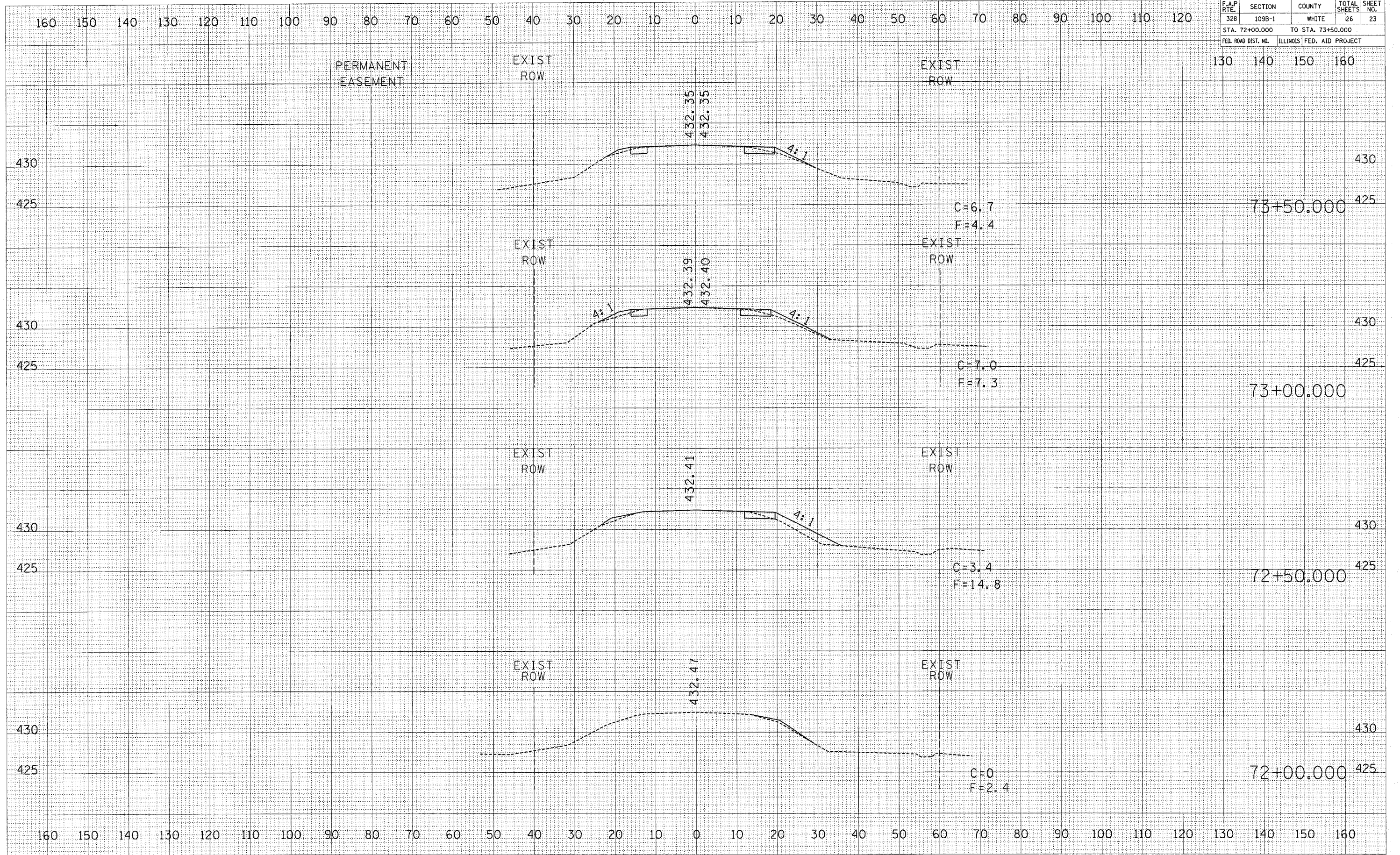
ILLINOIS DEPARTMENT OF TRANSPORTATION

EROSION CONTROL DETAIL

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

PLOT DATE = 10/26/2005
 FILE NAME = #FILE#
 PLOT SCALE = #SCALE#
 USER NAME = #USER#

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
328	109B-1	WHITE	26	23
STA. 72+00.000		TO STA. 73+50.000		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		



DATE: _____ BY: _____

DESIGNED BY: _____

PLOTTED BY: _____

NOTE BOOK NO.: _____

AREAS CHECKED: _____

DATE: _____ BY: _____

DESIGNED BY: _____

PLOTTED BY: _____

NOTE BOOK NO.: _____

AREAS CHECKED: _____

PLOT DATE = #DATE#
 FILE NAME = #FILE#
 PLOT SCALE = #SCALE#
 USER NAME = #USER#

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
328	109B-1	WHITE	26	24
STA. 74+00.000		TO STA. 74+55.210		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

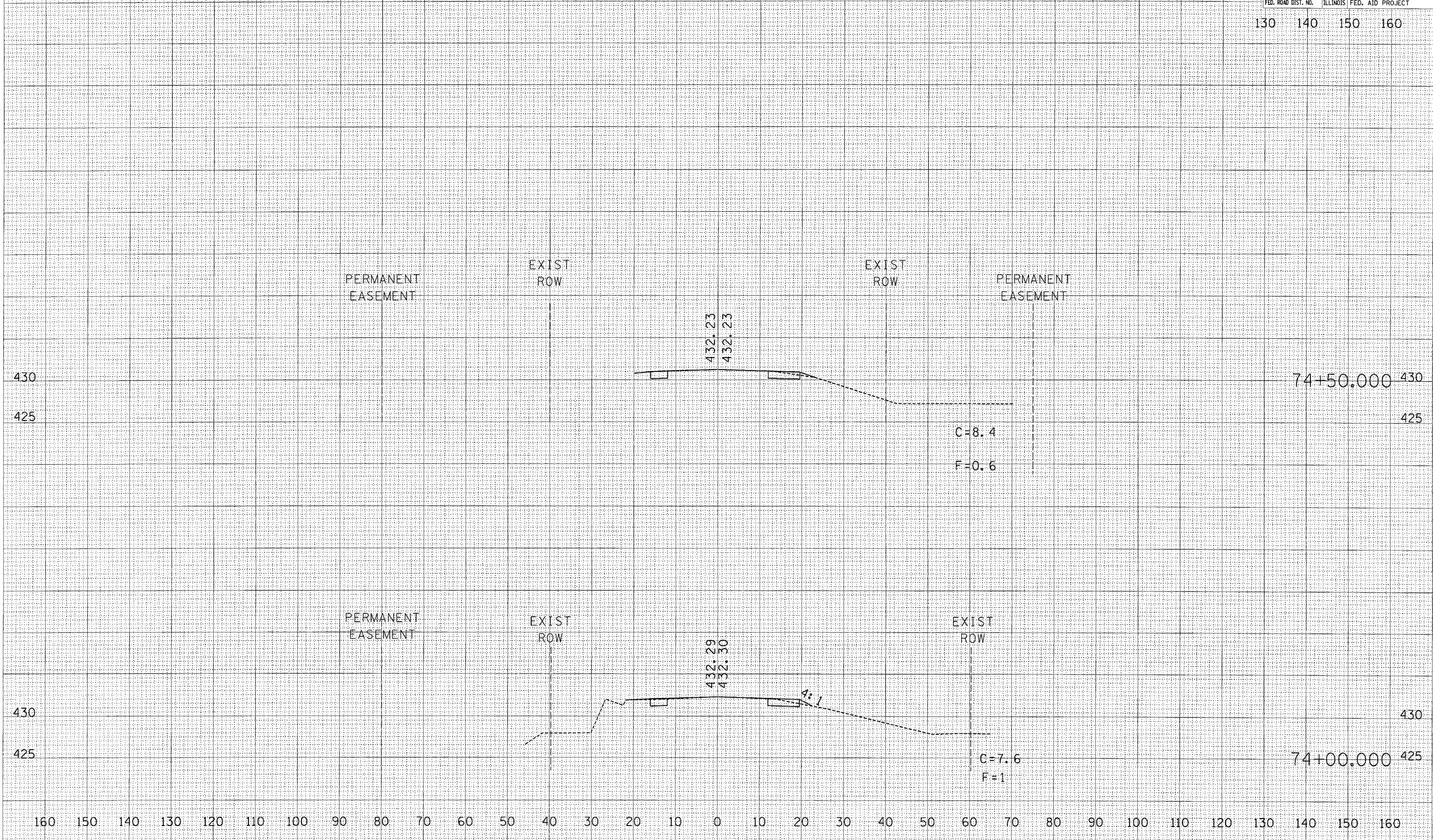
160 150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120

130 140 150 160

DATE	
BY	
DESIGNED	
CHECKED	
PLANNED	
NOTED	
AREAS CHECKED	
NO.	

DATE	
BY	
DESIGNED	
CHECKED	
PLANNED	
NOTED	
AREAS CHECKED	
NO.	

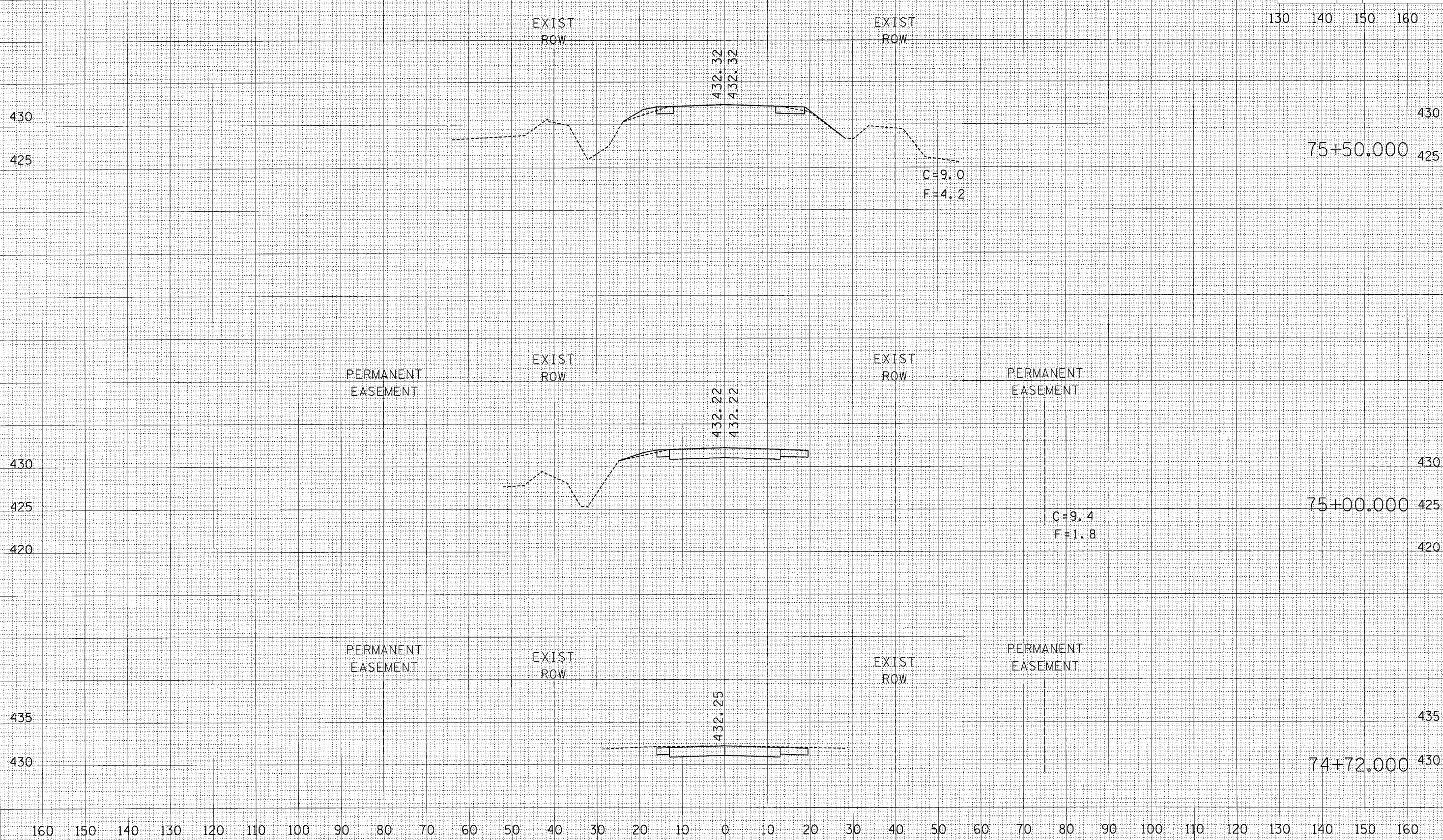
PLOT DATE = #DATE#
 PLOT NAME = #FILE#
 PLOT SCALE = #SCALE#
 USER NAME = #USER#



F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
328	109B-1	WHITE	26	25
STA. 74+72.000		TO STA. 75+50.000		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

130 140 150 160

160 150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120



FINAL SURVEY BY DATE

DATE _____

BY _____

REVISIONS

NO. _____

DATE _____

BY _____

REVISIONS

NO. _____

DATE _____

BY _____

REVISIONS

NO. _____

DATE _____

BY _____

REVISIONS

NO. _____

DATE _____

BY _____

REVISIONS

NO. _____

ORIGINAL SURVEY BY DATE

DATE _____

BY _____

REVISIONS

NO. _____

DATE _____

BY _____

REVISIONS

NO. _____

DATE _____

BY _____

REVISIONS

NO. _____

DATE _____

BY _____

REVISIONS

NO. _____

DATE _____

BY _____

REVISIONS

NO. _____

PLOT DATE = #DATE#

FILE NAME = #FILE#

PLOT SCALE = #SCALE#

USER NAME = #USER#

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
328	109B-1	WHITE	26	26
STA. 76+00.000		TO STA. 76+50.000		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	

160 150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120

130 140 150 160

FINAL SURVEY BY DATE

SURVEYED TO DATE

NOTE BOOK NO.

AREAS CHECKED

ORIGINAL SURVEY BY DATE

SURVEYED TO DATE

NOTE BOOK NO.

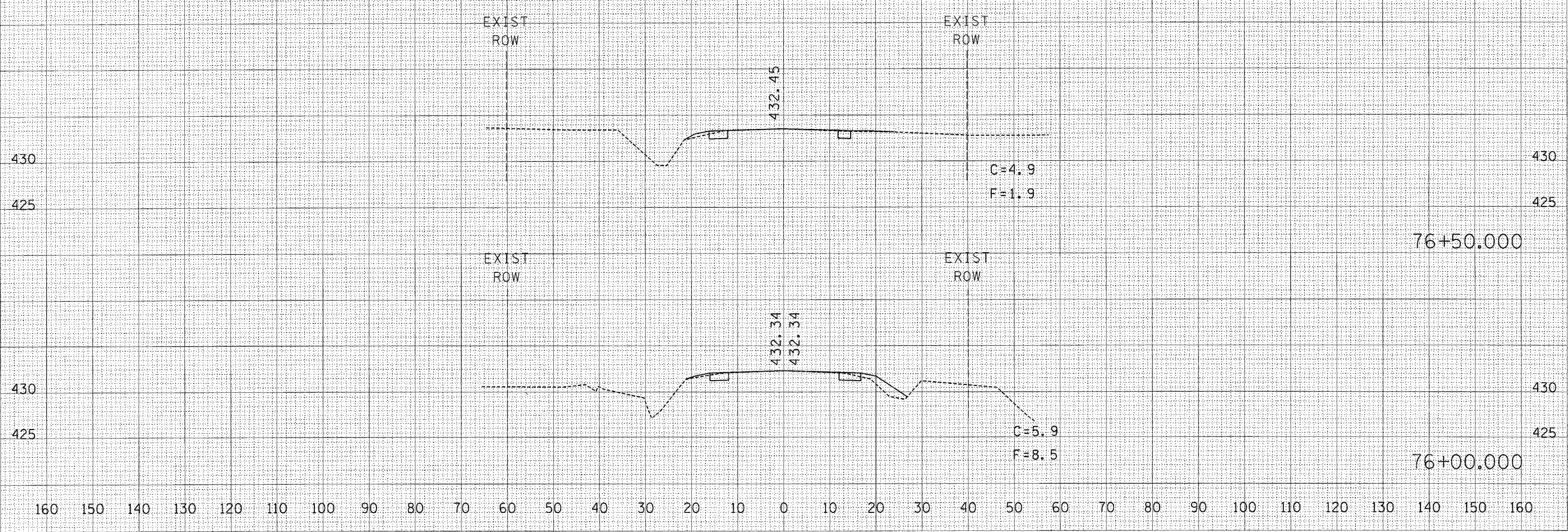
AREAS CHECKED

PLOT DATE * @DATE*

FILE NAME * @FILE#*

PLOT SCALE * @SCALE*

USER NAME * @USER#*



160 150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150 160