

district
12/22/2005
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PROJECT ENGINEER : BILL STANLEY
SQUAD LEADER : MYRA OLTMAN
DESIGNER : MYRA OLTMAN
TELEPHONE : 217/342-3951 EX 314

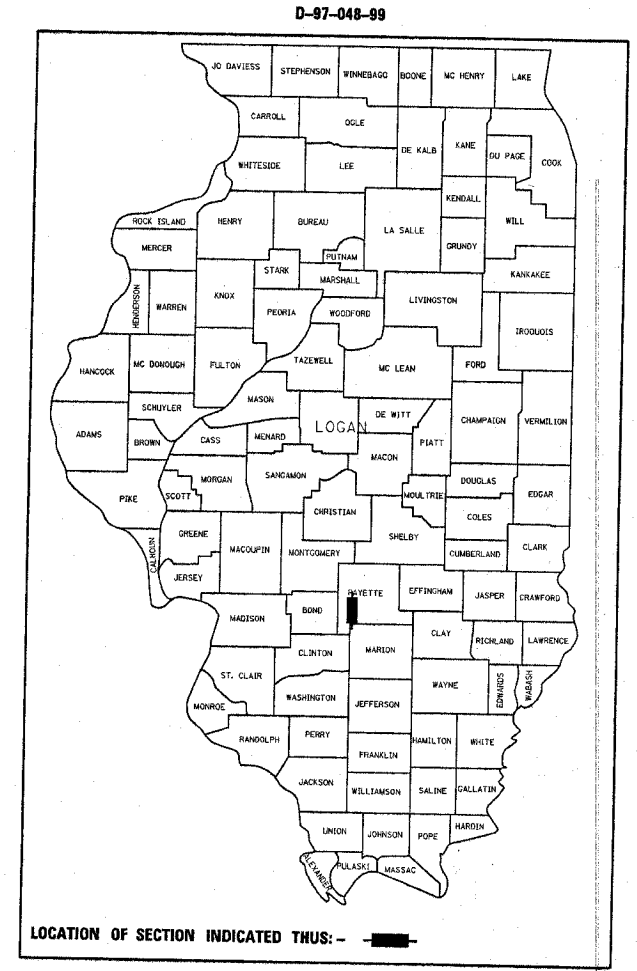
CONTRACT NO. 94778			
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS
322	(24B)B-1	FAYETTE	22
			SHEET NO. 1

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

**PROPOSED
HIGHWAY PLANS**

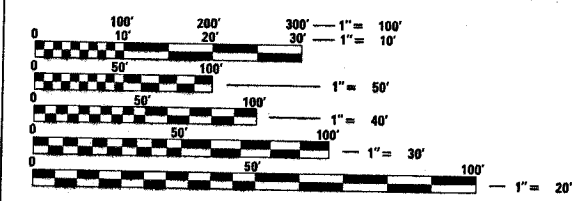
FAP ROUTE 322 (US RTE 51)
SECTION (24B)B-1
~~PROJECT BR-322~~
FAYETTE COUNTY

FOR INDEX OF SHEETS, SEE SHEET NO. 2



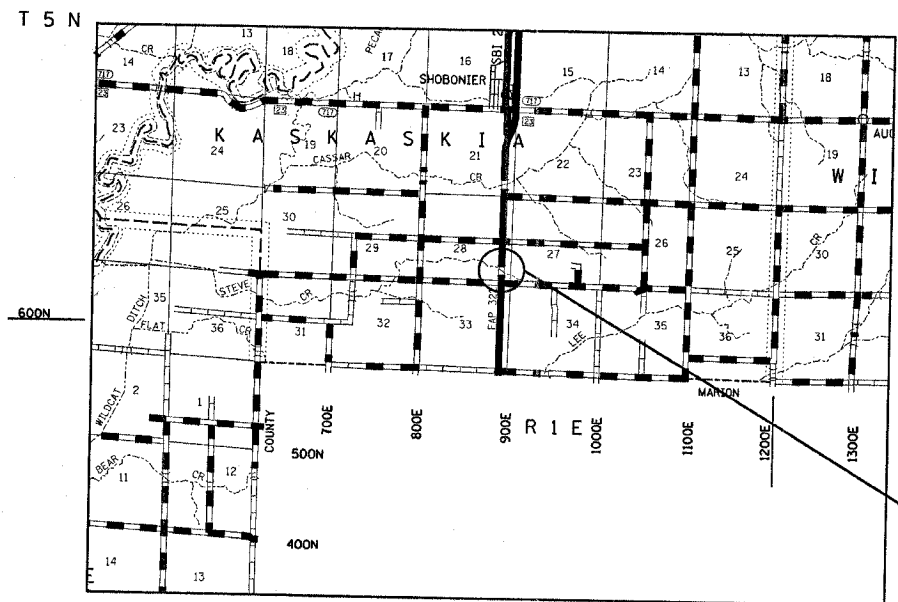
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ADT (2003) - 3250



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



FAP ROUTE 322
SECTION (24B)B-1
STR# 026-2018
STATION 443+66.18
FAYETTE COUNTY

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

SUBMITTED Dec. 27, 2005
Chris H. Reed
DEPUTY DIRECTOR OF HIGHWAYS, REGION ENGINEER

February 3, 2006
Mike Hine
ENGINEER OF DESIGN AND ENVIRONMENT

February 3, 2006
Milton R. Sees, P.E.
DIRECTOR OF HIGHWAYS, CHIEF ENGINEER

CONTRACT NO. 94778 TOWNSHIP : KASKASKIA

GROSS LENGTH = 699 FEET = 0.13 MILES
NET LENGTH = 120.5 FEET = 0.02 MILES

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OF THE STATE OF ILLINOIS**

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
322	(24B)B-1	FAYETTE	22	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 (24B)B-1 CONSISTS OF THE COMPLETE REMOVAL AND REPLACEMENT OF THE EXISTING STRUCTURE WITH A NEW DOUBLE BOX CULVERT, BITUMINOUS CONCRETE PAVEMENT, BASE COURSE WIDENING, BITUMINOUS SHOULDERS, RIP RAP, GUARDRAIL AND ANY OTHER INCIDENTAL WORK NECESSARY TO COMPLETE THIS SECTION. THE WORK SHALL BE DONE UTILIZING STAGE CONSTRUCTION AND TRAFFIC SIGNALS.

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 441+84.

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 1398 FOOT FOR STAGE 1 AND 1398 FOOT FOR STAGE 2 HAS BEEN CALCULATED.

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 170 FEET OF YELLOW AND 1398 FEET OF WHITE.

THE BASE COURSE WIDENING SHALL, AT THE CONTRACTOR'S OPTION BE CONSTRUCTED OF EITHER PORTLAND CEMENT CONCRETE 8" THICK, OR BITUMINOUS CONCRETE, 10" THICK. ANY EXCAVATION REQUIRED FOR PLACEMENT OF THE BASE COURSE WIDENING SHALL BE INCLUDED IN THE COST OF PAVED SHOULDER REMOVAL.

ALL EXCAVATION REQUIRED BEHIND EXISTING ABUTMENTS SHALL BE PAID FOR AT THE CONTRACT UNIT PRICE PER CUBIC YARD FOR EARTH EXCAVATION.

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:

BOTTOM BINDER LIFT (5.0"MAX.)

APPLICATION: BITUMINOUS CONCRETE BINDER COURSE, SUPERPAVE IL-19.0 N70
 PG GRADE: PG 64-22
 RAP%: 25%
 DESIGN AIR VOIDS: 4.0% @ NDESIGN = 70
 MIXTURE COMPOSITION: IL-19.0
 FRICTION AGGREGATE: N/A

2ND BINDER LIFT (4.5"MAX.)

APPLICATION: BITUMINOUS CONCRETE BINDER COURSE, SUPERPAVE IL-19.0 N70
 PG GRADE: PG 64-22
 RAP%: 25%
 DESIGN AIR VOIDS: 4.0% @ NDESIGN = 70
 MIXTURE COMPOSITION: IL-19.0
 FRICTION AGGREGATE: N/A

TOP BINDER LIFT (2.25"MAX.)

APPLICATION: BITUMINOUS CONCRETE BINDER COURSE, SUPERPAVE IL-19.0 N70
 PG GRADE: PG 64-22
 RAP%: 25%
 DESIGN AIR VOIDS: 4.0% @ NDESIGN = 70
 MIXTURE COMPOSITION: IL-19.0
 FRICTION AGGREGATE: N/A

SURFACE LIFT (2")

APPLICATION: BITUMINOUS CONCRETE SURFACE COURSE, SUPERPAVE MIX 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

BASE COURSE WIDENING

APPLICATION: BITUMINOUS CONCRETE BINDER COURSE, SUPERPAVE IL-19.0 N70
 PG GRADE: PG 64-22
 RAP%: 25%
 DESIGN AIR VOIDS: 4.0% @ NDESIGN = 70
 MIXTURE COMPOSITION: IL-19.0
 FRICTION AGGREGATE: N/A

BITUMINOUS SHOULDERS (8")

APPLICATION: BITUMINOUS CONCRETE BINDER COURSE, SUPERPAVE IL-19.0 N70
 PG GRADE: PG 64-22
 RAP%: 25%
 DESIGN AIR VOIDS: 4.0% @ NDESIGN = 70
 MIXTURE COMPOSITION: IL-19.0
 FRICTION AGGREGATE: N/A

BITUMINOUS SHOULDERS (10")

APPLICATION: BITUMINOUS CONCRETE BINDER COURSE, SUPERPAVE IL-19.0 N70
 PG GRADE: PG 64-22
 RAP%: 25%
 DESIGN AIR VOIDS: 4.0% @ NDESIGN = 70
 MIXTURE COMPOSITION: IL-19.0
 FRICTION AGGREGATE: N/A

THE CONTRACTOR WILL BE REQUIRED TO FOG COAT ALL BINDER LIFTS ON THE PROPOSED FULL-DEPTH MAINLINE PAVEMENT WITH AN EMULSIFIED POLYMER PRIME PRODUCT CLASSIFIED AS SS-1HP. USE 0.05 GAL./SQ. YD. AS A QUANTITY FACTOR PER LIFT OF BITUMINOUS CONCRETE BINDER COURSE (3 LIFTS TOTAL).

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 48 HOURS ADVANCE NOTICE THROUGH THE J.U.L.I.E. SYSTEM BY CALLING 800-892-0123.

THE FOLLOWING RATES OF APPLICATION HAVE BEEN USED IN THE CALCULATING PLAN QUANTITIES:

AGGREGATE SURFACE COURSE	2.05 TONS/CU. YD.
AGGREGATE SHOULDERS	2.05 TONS/CU. YD.
AGGREGATE (PRIME COAT)	4 LBS./SQ. YD.
BITUMINOUS CONCRETE	112 LBS./SQ. YD/INCH

INDEX OF SHEETS

SHEET NO	ITEM
1	TITLE SHEET
2	INDEX OF SHEETS & GENERAL NOTES
3	SUMMARY OF QUANTITIES
4-5	TYPICAL SECTIONS
6	BENCHMARKS AND ALIGNMENT TIES AND DETECTOR LOOPS
7	SCHEDULE OF QUANTITIES AND RIPRAP DETAILS
8	PLANS & PROFILE SECTION (24B)B-1
9	STAGE CONSTRUCTION I
10	STAGE CONSTRUCTION II
11-17	BRIDGE PLANS
18	EROSION CONTROL DETAILS
19-22	CROSS SECTIONS

THE FOLLOWING STANDARDS ARE A PART OF THESE PLANS AND ARE INCLUDED FOLLOWING SHEET NUMBER 22.

STD NO.	DESCRIPTION
000001-04	STANDARD SYMBOLS, ABBREVIATIONS, AND PATTERNS
001001	AREAS OF REINFORCEMENT BARS
280001-02	TEMPORARY EROSION CONTROL SYSTEMS
515001-02	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	SHOULDER WIDENING FOR TYPE 1 (SPECIAL) GUARDRAIL TERMINALS
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
701006-02	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

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NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

**GENERAL NOTES
&
INDEX OF SHEETS**

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F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
322	G24B/B-1	FAYETTE	22	3
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

SUMMARY OF QUANTITIES

SUMMARY OF QUANTITIES			TOTAL QUANTITIES	CONSTRUCTION TYPE CODE		
CODE NO	ITEM	UNIT		X028-2A		
20200100	EARTH EXCAVATION	CU YD	497	497		
20201500	SUB-BASE GRANULAR MATERIAL, TYPE B	TON	252	252		
20900110	POROUS GRANULAR BACKFILL	CU YD	280	280		
25000210	SEEDING, CLASS 2A	ACRE	0.1	0.1		
25000400	NITROGEN FERTILIZER NUTRIENT	POUND	9	9		
25000500	PHOSPHORUS FERTILIZER NUTRIENT	POUND	9	9		
25000600	POTASSIUM FERTILIZER NUTRIENT	POUND	9	9		
25000700	AGRICULTURAL GROUND LIMESTONE	TON	0.2	0.2		
25100115	MULCH, METHOD 2	ACRE	0.1	0.1		
28000250	TEMPORARY EROSION CONTROL SEEDING	POUND	10	10		
28000300	TEMPORARY DITCH CHECKS	EACH	4	4		
28100107	STONE RIPRAP, CLASS A4	SQ YD	1075	1075		
28200200	FILTER FABRIC	SQ YD	1075	1075		
35650700	BASE COURSE WIDENING	SQ YD	325	325		
40600100	BITUMINOUS MATERIALS (PRIME COAT)	GALLON	48	48		
40600300	AGGREGATE (PRIME COAT)	TON	1.9	1.9		
44000100	PAVEMENT REMOVAL	SQ YD	255	255		
44004250	PAVED SHOULDER REMOVAL	SQ YD	622	622		
48202000	BITUMINOUS SHOULDERS SUPERPAVE	TON	43	43		
48202600	BITUMINOUS SHOULDERS SUPERPAVE 8"	SQ YD	276	276		
50100100	REMOVAL OF EXISTING STRUCTURES	EACH	1	1		
50800105	REINFORCEMENT BARS	POUND	47840	47840		
51205200	TEMPORARY SHEET PILING	SQ FT	650	650		
51500100	NAME PLATES	EACH	1	1		
54003000	CONCRETE BOX CULVERTS	CU YD	180.6	180.6		
*63000000	STEEL PLATE BEAM GUARD RAIL, TYPE A	FOOT	526	526		
*63000025	STEEL PLATE BEAM GUARD RAIL, ATTACHED TO STRUCTURES	FOOT	87.5	87.5		
67000500	ENGINEER'S FIELD OFFICE, TYPE B	CAL MO	7	7		
67100100	MOBILIZATION	L SUM	1	1		
70100405	TRAFFIC CONTROL AND PROTECTION, STANDARD 701321	EACH	1	1		
70100500	TRAFFIC CONTROL AND PROTECTION, STANDARD 701326	L SUM	1	1		
70103815	TRAFFIC CONTROL SURVEILLANCE	CAL DA	5	5		
70106500	TEMPORARY BRIDGE TRAFFIC SIGNALS	EACH	1	1		
70300100	SHORT-TERM PAVEMENT MARKING	FOOT	68	68		
70300220	TEMPORARY PAVEMENT MARKING - LINE 4"	FOOT	1538	1538		

SUMMARY OF QUANTITIES			TOTAL QUANTITIES	CONSTRUCTION TYPE CODE		
CODE NO	ITEM	UNIT		X028-2A		
70301000	WORK ZONE PAVEMENT MARKING REMOVAL	SQ FT	23	23		
70400100	TEMPORARY CONCRETE BARRIER	FOOT	350	350		
70400200	RELOCATE TEMPORARY CONCRETE BARRIER	FOOT	350	350		
*78001110	PAINT PAVEMENT MARKING - LINE 4"	FOOT	1568	1568		
*78200410	GUARDRAIL MARKERS, TYPE A	EACH	8	8		
78300500	PAINT PAVEMENT MARKING REMOVAL	SQ FT	1504	1504		
X0348700	AGGREGATE DITCH CHECK	EACH	1	1		
X3560172	BITUMINOUS CONCRETE BASE COURSE WIDENING, SUPERPAVE 13 3/4 INCH	SQ YD	47	47		
X4024000	TEMPORARY ACCESS (FIELD ENTRANCE)	EACH	1	1		
X4073155	BITUMINOUS CONCRETE PAVEMENT (FULL-DEPTH), SUPERPAVE, 13 3/4"	SQ YD	321	321		
X6330103	REMOVE AND RE-ERECT TRAFFIC BARRIER TERMINAL, TYPE 1 SPECIAL, TANGENT	EACH	4	4		
Z0002600	BAR SPLICERS	EACH	118	118		
Δ Z0030240	IMPACT ATTENUATORS, TEMPORARY (NON-REDIRECTIVE), TEST LEVEL 2	EACH	2	2		
Δ Z0030340	IMPACT ATTENUATORS, RELOCATE (NON-REDIRECTIVE), TEST LEVEL 2	EACH	2	2		

Δ SFTY-3M
*SPECIALTY ITEMS

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES

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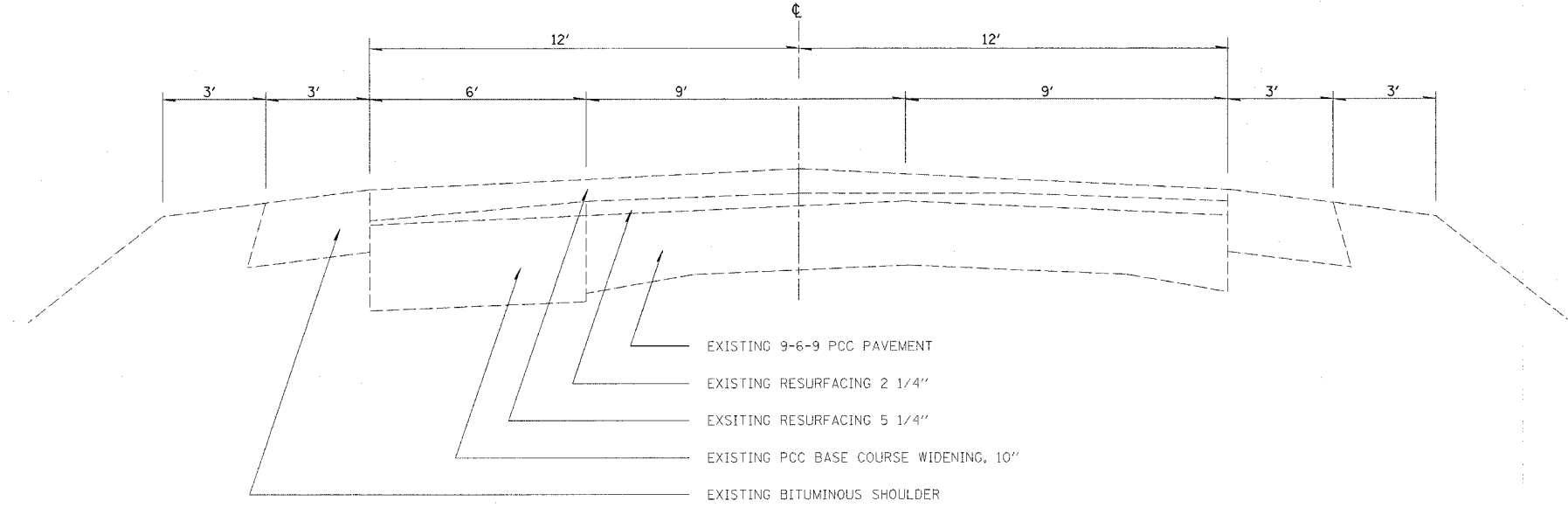
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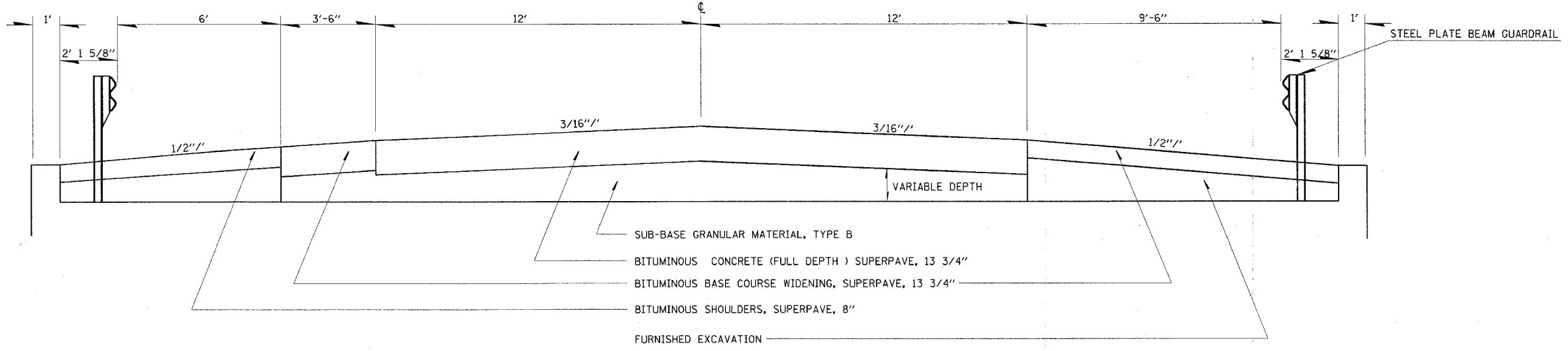
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F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
322	(24B)B-1	FAYETTE		4
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



ADJACENT TYPICAL SECTION



ADJACENT TYPICAL SECTION AT BOX CULVERT

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

TYPICAL SECTIONS

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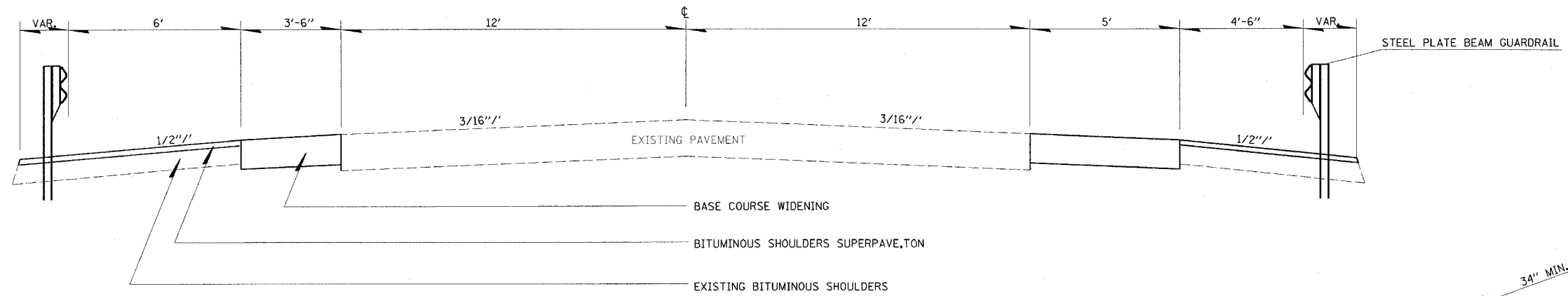
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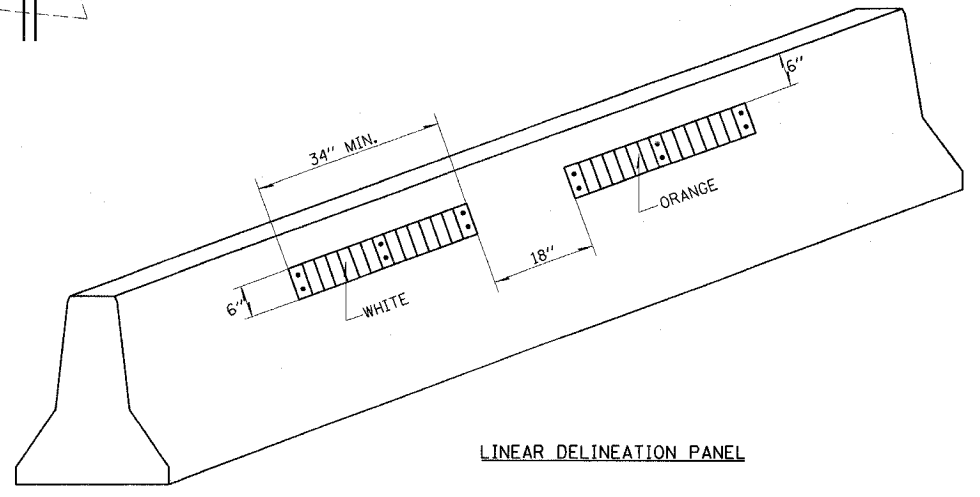
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F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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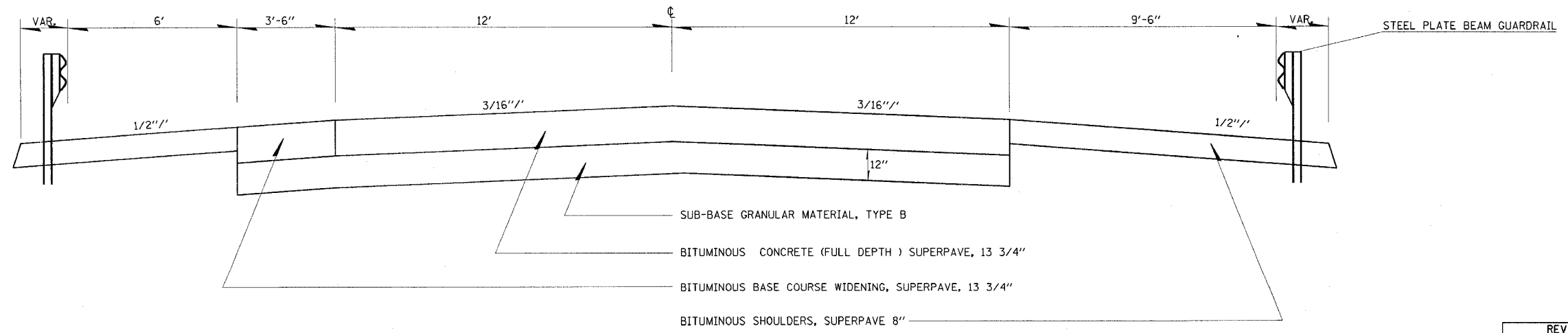
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TYPICAL SECTION NEAR BOX CULVERT
 STATION 441+25 TO STATION 443+07
 STATION 444+27.5 TO STATION 446+15



LINEAR DELINEATION PANEL



TYPICAL SECTION AT BOX CULVERT
 STATION 443+07 TO STATION 443+52
 STATION 443+78 TO STATION 444+27.5

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
**TYPICAL SECTIONS
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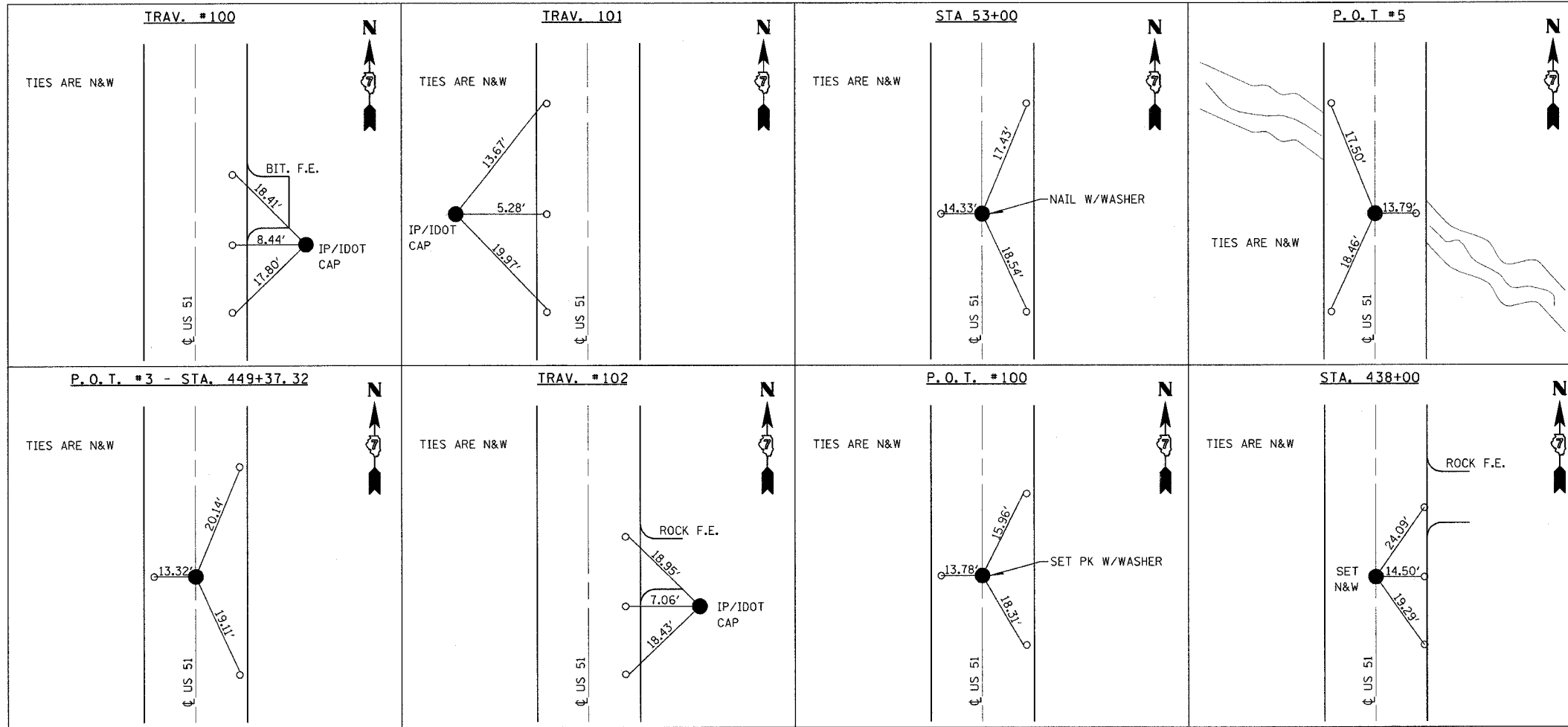
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F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
322	(24B)B-1	FAYETTE	22	6
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	

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TIES



- BM #200 - RAILROAD SPIKE IN POWERPOLE. STA. 444+37, 215' RT. ELEV 521.89
- BM J 256 - BRASS CAP ON TOP OF N.E. WINGWALL ON BRIDGE AT STA. 443+66.18 OVER STEVES CREEK STA 443+77.5, 25.0 LT. ELEV 518.26
- BM #201 - CHISELED SQUARE ON E. END OF ARC CULVERT STA. 435+88, 33' LT. ELEV 517.24

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	681	0	545	574	955	492	982	560	1118	628	1255	765	1527	3 TURNS
682	954	546	818	956	1432	983	1636	1119	1864	1256	2091	1528	2545	4 TURNS
955	1272	819	1145	1433	2005	1637	2455	1865	2795	2092	3136	2546	3818	5 TURNS
1273	1636	1146	1527	2006	2673	2456	3436	2796	3914					6 TURNS
1637	2045	1528	1964	2674	3436									7 TURNS
2046	2499	1965	2455											8 TURNS
		2456	3000											9 TURNS
														10 TURNS

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

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ILLINOIS DEPARTMENT OF TRANSPORTATION

**BENCHMARKS,
ALIGNMENT TIES
& DETECTOR LOOPS**

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F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
322	(24B)B-1	FAYETTE	22	7
STA.		TO STA.		
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GUARDRAIL SCHEDULE

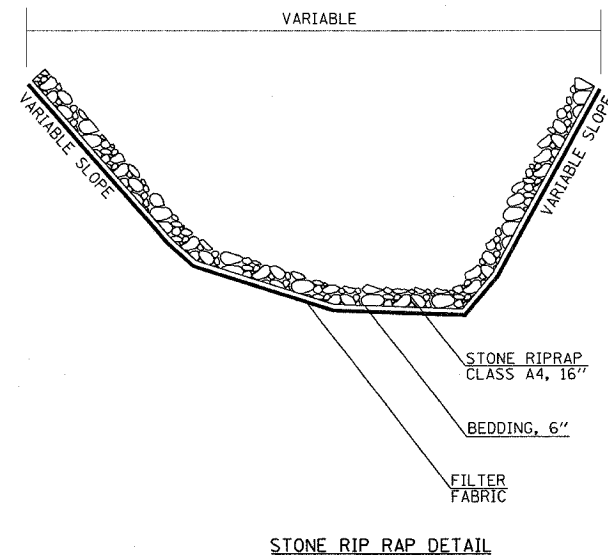
LOCATION	STEEL PLATE BEAM GUARDRAIL, TYPE A FOOT	REMOVE AND RE-ERECT TRAFFIC BARRIER TERMINAL EACH	GUARDRAIL MARKERS, TYPE A EACH	STEEL PLATE BEAM GUARDRAIL ATTACHED TO STRUCTURE FOOT
STAGE I NE CORNER	100	1	4	
SE CORNER OVER STRUCTURE	163	1		43.75
STAGE II NW CORNER	163	1	4	
SW CORNER OVER STRUCTURE	100	1		43.75
TOTAL	526	4	8	87.5

SEEDING SCHEDULE

SEEDING CLASS 2	0.1 ACRES
NITROGEN FERTILIZER	9 LBS
PHOSPHORUS FERTILIZER NUTRIENT	9 LBS
POTASSIUM FERTILIZER NUTRIENT	9 LBS
AGRICULTURAL GROUND LIMESTONE	0.2 TONS
MULCH METHOD 2	0.1 ACRES
TEMPORARY EROSION CONTROL SEEDING	10 POUND

AGGREGATE DITCH CHECK

OFFSET	STATION	QUANTITY
50' RT	443+25	1 EACH



STONE RIPRAP, CLASS A4

Station to	Station	SQ YD
444+30	444+50	112
444+50	445+00	226
445+00	445+50	222
445+50	446+25	329
TOTAL		889

FILTER FABRIC FOR RIPRAP

Station to	Station	SQ YD
444+30	444+50	112
444+50	445+00	226
445+00	445+50	222
445+50	446+25	329
TOTAL		889

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
SCHEDULE OF QUANTITIES & RIPRAP DETAIL
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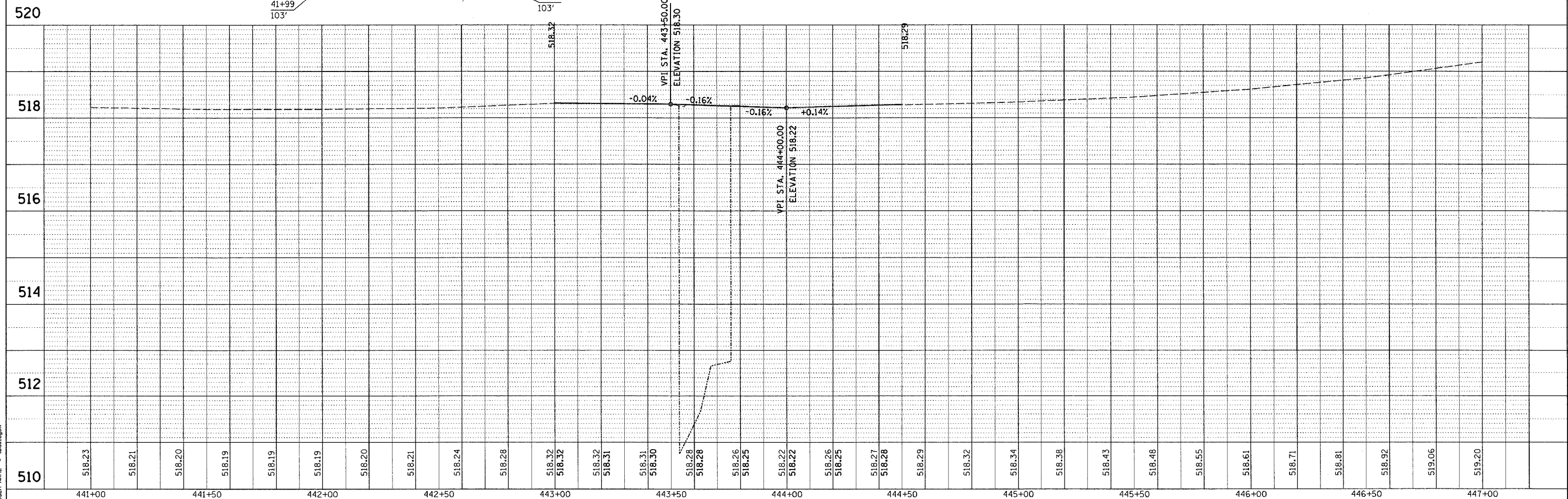
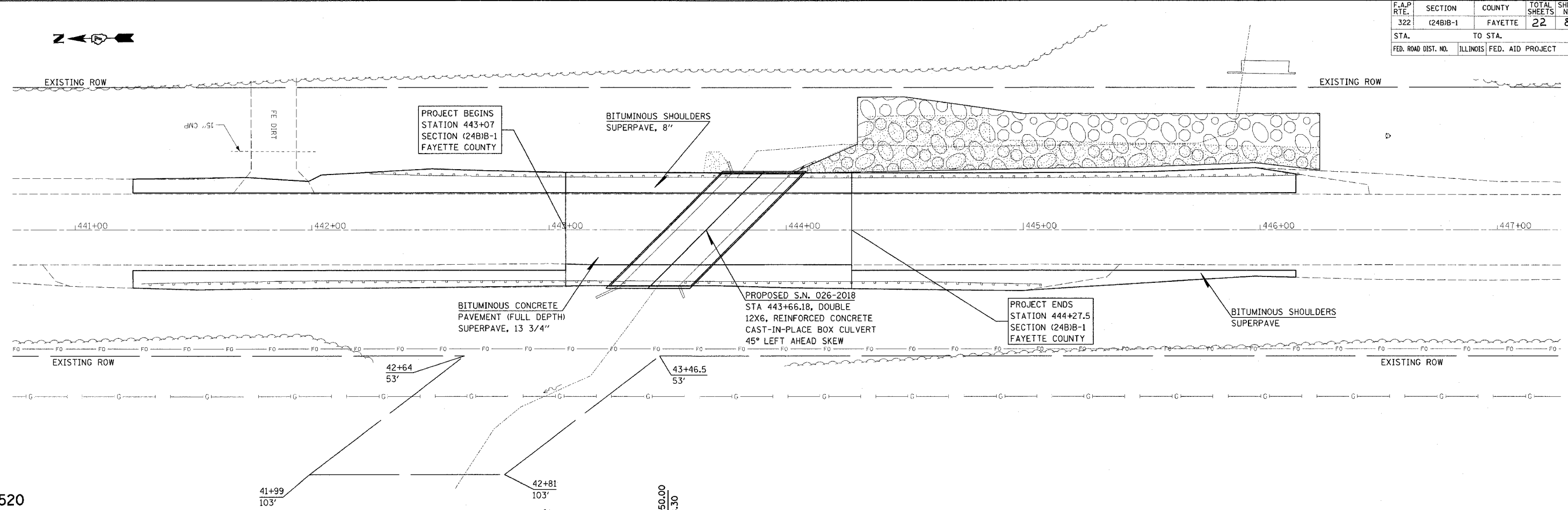
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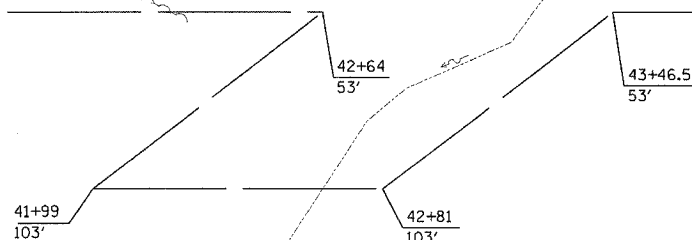
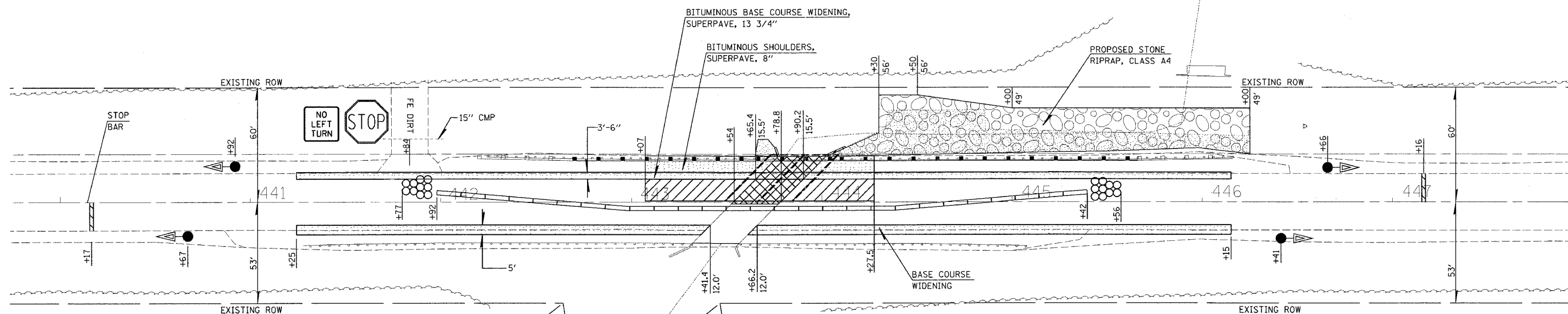
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NO.	BY	
	CHECKED	
	DATE	
	FILE NAME	

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FILE NAME = 94778a\04899p.dg
PLOT SCALE = 28.0000 / 1 IN.
USER NAME = teasleyck

CONTRACT NO. 94778				
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
322	(24B)B-1	FAYETTE	22	8
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT			



CONTRACT NO. 94778				
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
322	(24B)B-1	FAYETTE		9
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



STAGE I SEQUENCE OF OPERATIONS

1. CONSTRUCT BASE COURSE WIDENING ACCORDING TO TRAFFIC CONTROL STANDARD 701326.
2. ERECT SIGNS, TRAFFIC SIGNALS, TEMPORARY BARRIERS, ETC. ACCORDING TO TRAFFIC CONTROL STANDARD 701321.
3. PLACE TEMPORARY PAVEMENT MARKING LINE TO ALLOW FOR A 11' 7" TRAFFIC LANE.
4. REMOVE THE STAGE I PORTION OF THE EXISTING STRUCTURE, AND PAVEMENT AND SHOULDERS.
5. CONSTRUCT THE STAGE I PORTION OF THE PROPOSED BOX CULVERT, BITUMINOUS CONCRETE PAVEMENT 13 3/4", BASE COURSE WIDENING, BITUMINOUS SHOULDERS, RIP RAP, AND NEW GUARDRAIL. REMOVE AND RE-ERECT TRAFFIC TERMINALS, TYPE 1 SPECIAL (TANGENT).
6. CONSTRUCT SEEDING, MULCH AND TEMPORARY DITCH CHECKS ON STAGE I TRAFFIC SIDE.

BASE COURSE WIDENING

LT	441+25 TO	443+07	71 SQ YD
LT	444+27.50 TO	446+15	73 SQ YD
RT	441+25 TO	443+41.40	84 SQ YD
RT	443+66.20 TO	446+15	97 SQ YD
			325 SQ YD

PAVED SHOULDER REMOVAL

LT	441+25 TO	443+07	71 SQ YD
LT	443+07 TO	443+65.40	56 SQ YD
LT	443+90.20 TO	444+27.50	36 SQ YD
LT	444+27.50 TO	446+15.00	73 SQ YD
RT	441+25 TO	443+41.20	120 SQ YD
RT	443+66.20 TO	446+15	138 SQ YD
			495 SQ YD

PAVEMENT REMOVAL

LT	443+07 TO	443+54	78 SQ YD
LT	443+78.80 TO	444+27.50	81 SQ YD
			159 SQ YD

BITUMINOUS CONCRETE PAVEMENT (FULL DEPTH), SUPERPAVE, 13.75"

LT	443+07 TO	444+27.50	161 SQ YD
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BITUMINOUS BASE COURSE WIDENING, SUPERPAVE, 13 3/4"

LT	443+07.00 TO	444+27.50	47 SQ YD
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BITUMINOUS MATERIALS (PRIME COAT)

LT	443+07 TO	444+27.50	24 GAL
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AGGREGATE (PRIME COAT)

LT	443+07 TO	444+28	0.96 TON
----	-----------	--------	----------

BITUMINOUS SHOULDER, SUPERPAVE, 8"

LT	443+07 TO	444+27.50	116 SQ YD
----	-----------	-----------	-----------

SUB-BASE GRANULAR MATERIAL, TYPE B

LT	443+07 TO	443+54	55
LT	443+54 TO	443+78.80	29
LT	443+78.80 TO	444+27.50	57
			142 TON

BITUMINOUS SHOULDER, SUPERPAVE

LT	441+25 TO	443+07	13 TON
LT	444+28 TO	446+46	8 TON
			22 TON

PAINT PAVEMENT MARKING REMOVAL

	440+17.00 TO	447+16.00	7575 SQ FT
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REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
STAGE I CONSTRUCTION
DETAIL SHEET

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

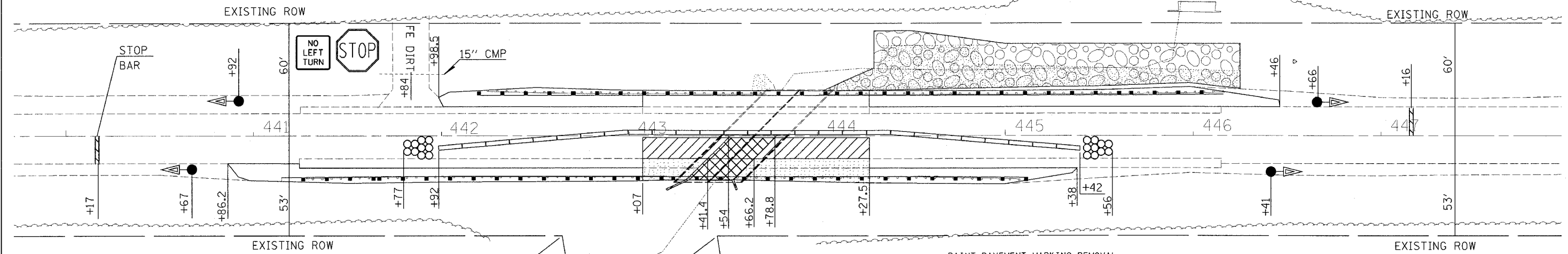
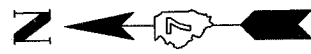
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1/11/2006
c:\projects\94778\06489\pe.dgn

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USER NAME = swartzm

Revised 1/12/05

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
322	(24B)-1	FAYETTE		10
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

SW01271W
 1/11/2005
 c:\projects\94778\04899\p.dgn



STAGE II SEQUENCE OF OPERATIONS

1. RELOCATE TEMPORARY CONCRETE BARRIERS, SIGNS, ETC. ACCORDING TO TRAFFIC CONTROL STANDARD 701321.
2. PLACE TEMPORARY PAVEMENT MARKING TO ALLOW A 11' 7" TRAFFIC LANE.
3. REMOVE THE STAGE II PORTION OF THE EXISTING STRUCTURE, PAVEMENT AND GUARDRAIL.
4. CONSTRUCT THE STAGE II PORTION OF THE NEW BOX CULVERT, SUB-BASE GRANULAR MATERIAL, TYPE B, BITUMINOUS CONCRETE PAVEMENT, 13 3/4", BITUMINOUS SHOULDERS, AND GUARDRAIL, REMOVE AND RE-ERECT TRAFFIC TERMINAL, TYPE I SPECIAL (TANGENT).
5. CONSTRUCT SEEDING, MULCH AND TEMPORARY DITCH CHECKS ON STAGE II TRAFFIC SIDE.
6. REMOVE THE TRAFFIC CONTROL STANDARD 701321.

AGGREGATE (PRIME COAT)

LT 443+07 TO 444+27.50 0.96 TON
 1.90 TON

PAVEMENT REMOVAL

RT 443+07 TO 443+54.00 47 SQ YD
 RT 443+78.80 TO 444+27.50 49 SQ YD
 96 SQ YD

BITUMINOUS CONCRETE PAVEMENT(FULL DEPTH), SUPERPAVE, 13.75"

RT 443+07 TO 444+27.50 161 SQ YD

PAVED SHOULDER REMOVAL

RT 443+07 TO 443+41.20 46 SQ YD
 RT 443+66.20 TO 444+27.50 82 SQ YD
 127 SQ YD

BITUMINOUS SHOULDER, SUPERPAVE, 8"

RT 443+07 TO 444+27.50 161 SQ YD

PAINT PAVEMENT MARKING REMOVAL

440+17.00 TO 447+16.00 747 SQ FT

PAINT PAVEMENT MARKING LINE-4"

440+17.00 TO 447+16.00 1568 FOOT

SHORT TERM PAVEMENT MARKING

440+17.00 TO 447+16.00 68 FOOT

WORK ZONE PAVEMENT MARKING REMOVAL

440+17.00 TO 447+16.00 23 SQ FT

SUB-BASE GRANULAR MATERIAL, TYPE B

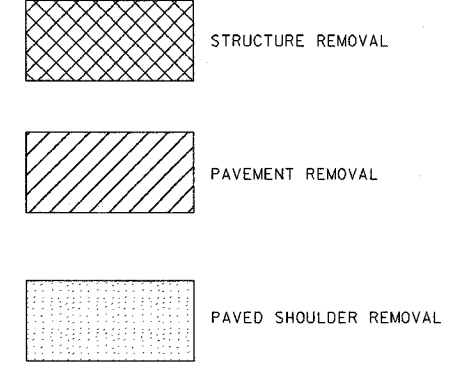
RT 443+07 TO 443+54 43
 RT 443+54 TO 443+78.80 23
 RT 443+78.80 TO 444+27.50 44
 110 TON

BITUMINOUS SHOULDER, SUPERPAVE

RT 441+25 TO 443+07 11 TON
 RT 444+28 TO 446+46 12 TON
 21 TON

BITUMINOUS MATERIALS (PRIME COAT)

RT 443+07 TO 444+27.50 24 GAL



REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
**STAGE II CONSTRUCTION
 DETAIL SHEET**

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

Revised 1/12/05

PLOT DATE = 1/11/2005
 FILE NAME = c:\projects\94778\04899\p.dgn
 PLOT SCALE = 25.0000 / IN.
 USER NAME = sww-171

Bench Mark: Brass Cap, Top of N.E. wingwall, Station 443+77.5, 25' Lt.; Elev. 518.26

Existing Structure: S.N. 026-0039 built in 1921 under S.B.I. 2, Sec. 24-B-Y at Sta. 443+66.18. The super and substructure were widened in 1960 under S.B.I. Rte. 2 (F.A. Rte. 2), Section 24-BY at Sta. 443+66.18. The superstructure is a simple span slab bridge supported on closed abutments. The Bk. to Bk. dimension measures 25'-5 1/2" while the O.-O. width measures 46'-4". The existing structure is to be removed and replaced utilizing stage construction.

No salvage

ROUTE NO.	SECTION	COUNTY	SHEET	SHEET NO.
F.A.P. 322	(24B)B-1	FAYETTE	22	11
FED. ROAD DIST. NO. 7		ILLINOIS	FED. AID PROJECT	

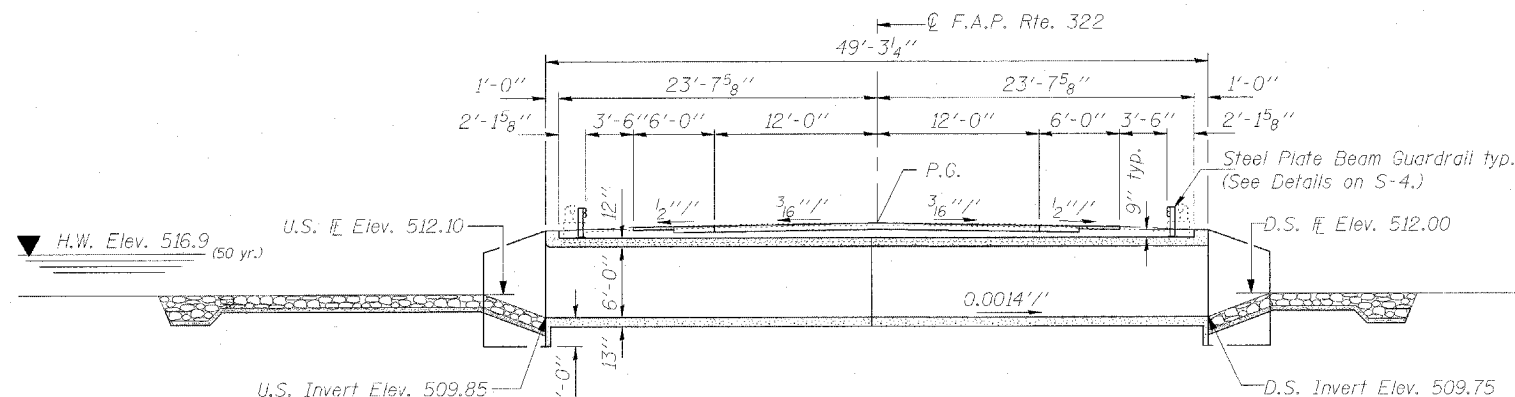
Contract #94778

TOTAL BILL OF MATERIAL

ITEM	UNIT	TOTAL
Removal of Existing Structure	Each	1
Concrete Box Culverts	Cu Yd	180.6
Reinforcement Bars	Pound	47,840
Name Plates	Each	1
Stone Riprap, Class A4	Sq Yd	186
Temporary Sheet Piling	Sq Ft	650
Steel Plate Beam Guardrail, Attached to Structures	Ft	87.5
Bar Splicers	Each	118
Porous Granular Backfill	Cu Yd	280
Filter Fabric	Sq Yd	186

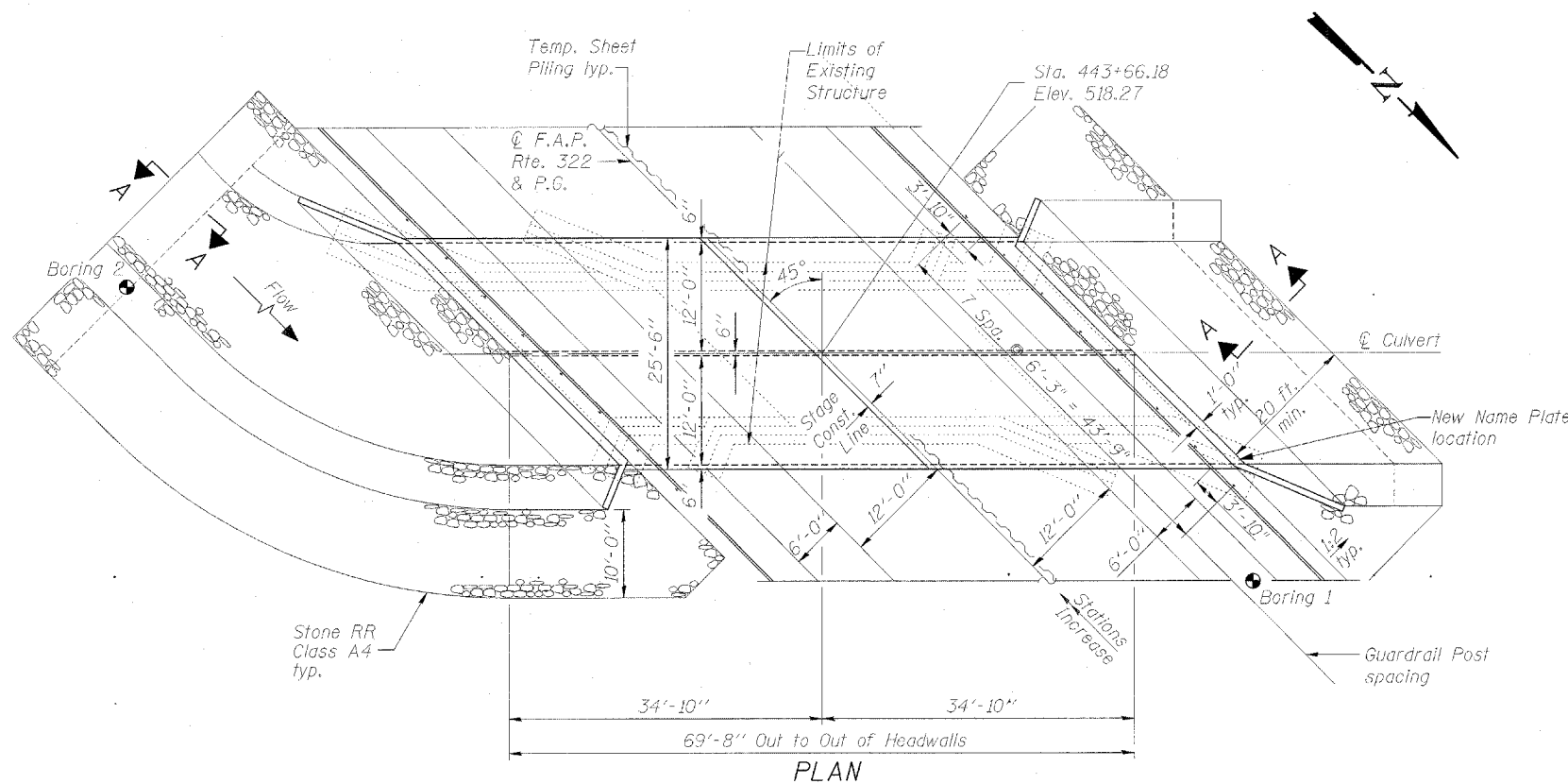
NOTES:

- It shall be the responsibility of the Contractor to divert the stream flow during construction in order to keep the construction areas free of water. The method of water diversion shall be subject to the approval of the Engineer and cost shall be included with "Concrete Box Culvert".
- Layout of slope protection system may be varied in the field to suit ground conditions as directed by the Engineer.
- Excavation behind existing abutment walls shall be done before removing the existing superstructure. The Contractor shall sawcut the existing abutments at the stage removal line before Stage I Removal.
- For backfilling and embankment, see Standard Specifications.
- Exposed edges shall be beveled 3/4".
- All construction joints shall be banded.
- Reinforcement Bars shall conform to the requirements of AASHTO M31, or M322, Grade 60.
- Precast alternate not allowed.



LONGITUDINAL SECTION

(Horiz. dim. @ Rt. L's to Rdwy.)
(Looking South)

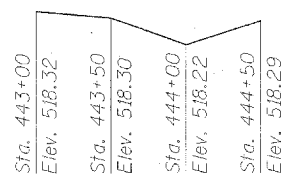


PLAN

WATERWAY INFORMATION

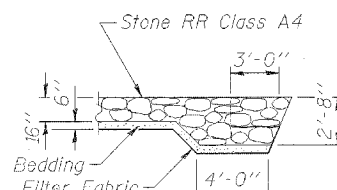
Drainage Area = 0.8 sq. mi. Low Grade Elev. 518.35 @ Sta. 442+00

Flood	Freq. Yr.	Q C.F.S.	Opening Sq. Ft.		Nat. H.W.E.	Head - Ft.		Headwater Et.	
			Exist.	Prop.		Exist.	Prop.	Exist.	Prop.
Design	50	520	53	96	516.9	1.8	0.6	518.7	517.5
Base	100	600	53	96	517.1	1.7	0.9	518.8	518.0
Overtopping	200	700	53	96	517.6	1.3	1.1	518.9	518.7
Max. Calc.	-	-	-	-	-	-	-	-	-



PROFILE GRADE

(along @ roadway)



SECTION A-A

STATION 443+66.18
BUILT BY
STATE OF ILLINOIS
F.A.P. RT. 322 SEC. (24B)B-1
LOADING HS20
STR. NO. 026-2018
NAME PLATE
See Std. 515001

LOADING HS20-44

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

DESIGN SPECIFICATIONS

2002 AASHTO

DESIGN STRESSES

FIELD UNITS

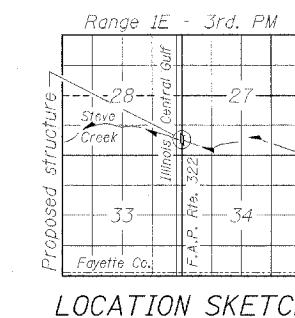
$f_c = 3,500$ psi
 $f_y = 60,000$ psi (reinforcement)



Structural Engineer
Clark Dietz, Inc.

DATE: 5-13-05
License Expires 11-30-06

APPROVED
FOR STRUCTURAL ADEQUACY ONLY
ENGINEER OF BRIDGES AND STRUCTURES



LOCATION SKETCH

GENERAL PLAN AND ELEVATION

U.S. ROUTE 51 OVER
STEVE CREEK
F.A.P. ROUTE 322 - SECTION (24B)B-1
FAYETTE COUNTY
STATION 443+66.18
STRUCTURE NO. 026-2018

CHAMPAIGN, ILLINOIS
CHICAGO, ILLINOIS
INDIANAPOLIS, INDIANA
EVANSVILLE, INDIANA
KENOSHA, WISCONSIN
SPRING GREEN, WISCONSIN

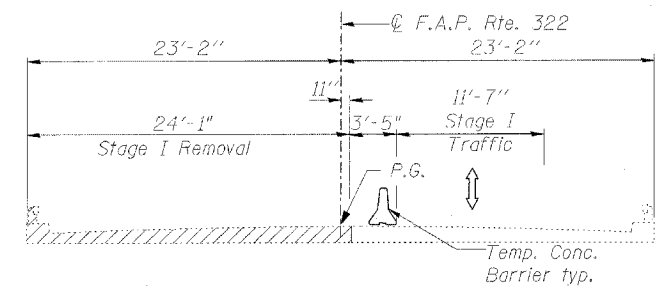


REVISIONS		DRAWING NUMBER
NAME	DATE	
		S-1

NOTES: DIMENSIONAL DATA IS NOT TO BE OBTAINED BY SCALING ANY PORTION OF THIS DRAWING.

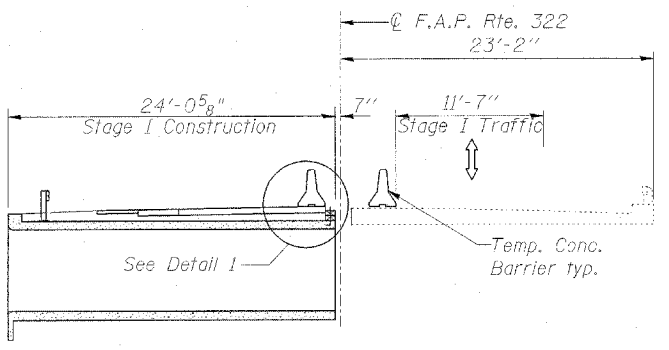
DESIGNED BY: S.M.M.	PROJECT NO.: 102206
DRAWN BY: M.E.W.	DATE: 4-05
CHECKED BY: M.M.	
APPROVED BY: S.C.S.	
ACTIVITY: INITIALS	

Contract #94778

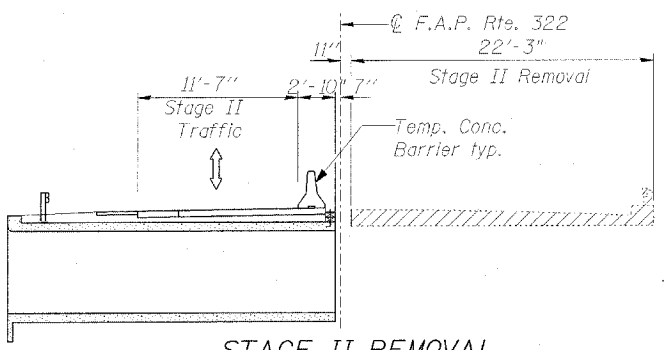


STAGE I REMOVAL

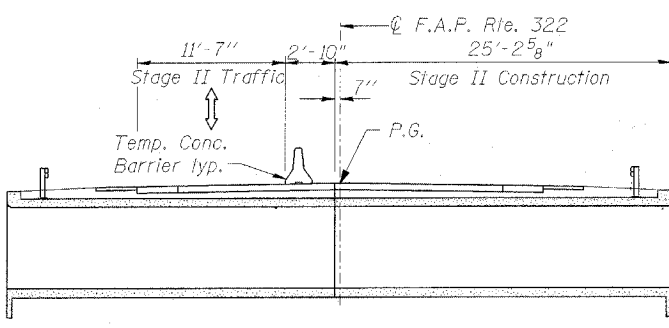
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(Looking South)



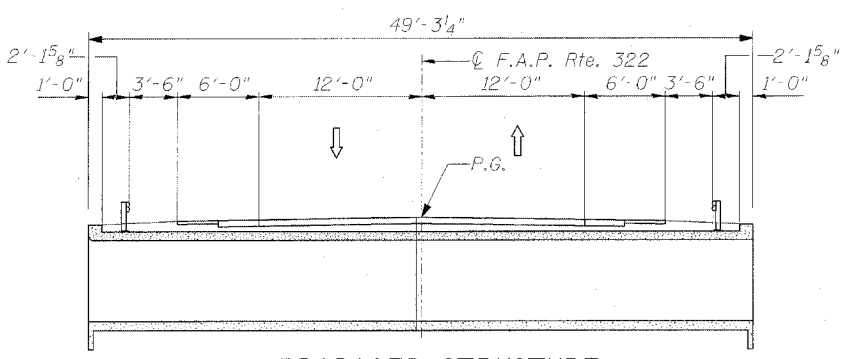
STAGE I CONSTRUCTION



STAGE II REMOVAL

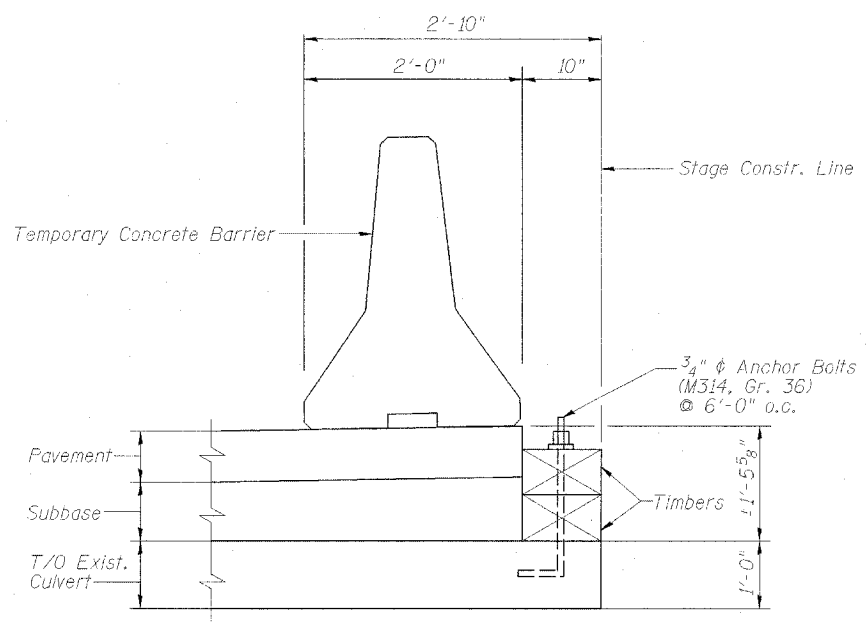


STAGE II CONSTRUCTION



PROPOSED STRUCTURE

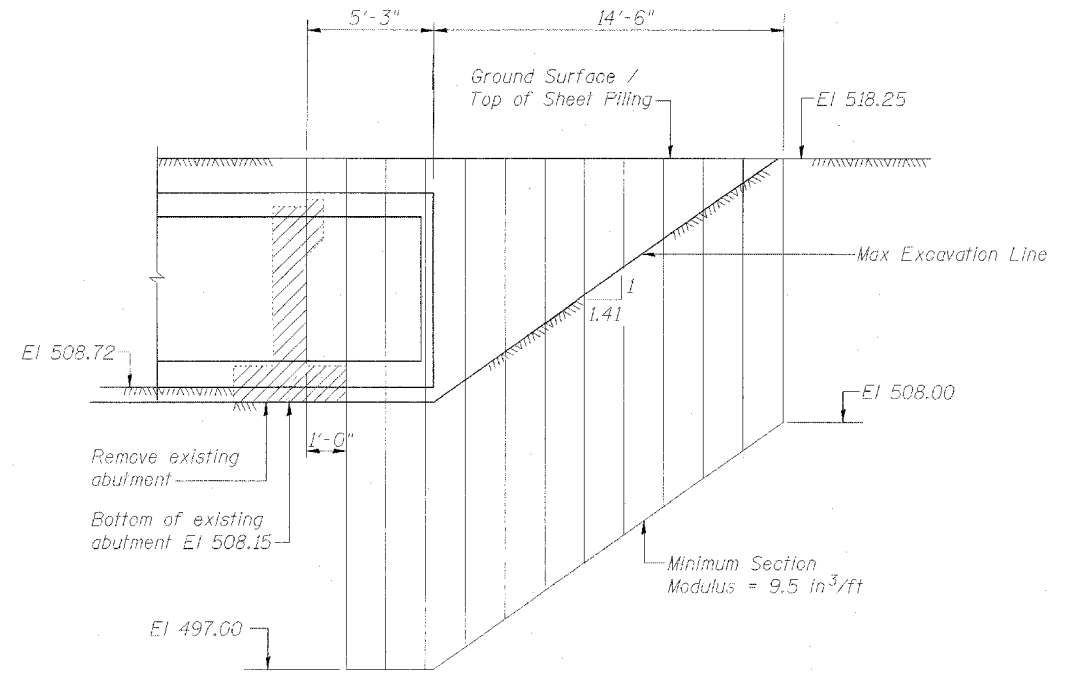
(Horiz. dim. @ Rt. L's to Rdwy.)
(Looking South)



DETAIL 1

Notes

1. The Contractor shall remove timbers and cut the anchor bolts after Stage II deck slab has been poured and cured. Cost of installing and removing anchor bolts and timbers are included in "Concrete Box Culverts".
2. For anchoring Temporary Concrete Barriers see Roadway Drawings.
3. The cost of 3/4" phi Anchor Bolts shall be included with Concrete Box Culverts.



TEMPORARY SHEET PILING AND CONCRETE REMOVAL DETAILS

Slopes and distances shown along alignment of sheeting (with 45° skew)

NOTES:

1. If the Contractor chooses to alter the temporary cantilevered sheet piling design requirements shown on the plans, a design submittal including plan details and calculations will be required for review and acceptance by the Engineer.
2. The Contractor shall connect the first sheet to the existing abutment wall to ensure stability of sheets driven to the top of the existing footing. This connection shall be reviewed and accepted by the Engineer and included in the cost for Temporary Sheet Piling.

STAGE CONSTRUCTION
U.S. ROUTE 51 OVER
STEVE CREEK
F.A.P. ROUTE 322 - SECTION (24B)B-1
FAYETTE COUNTY
STATION 443+66.18
STRUCTURE NO. 026-2018

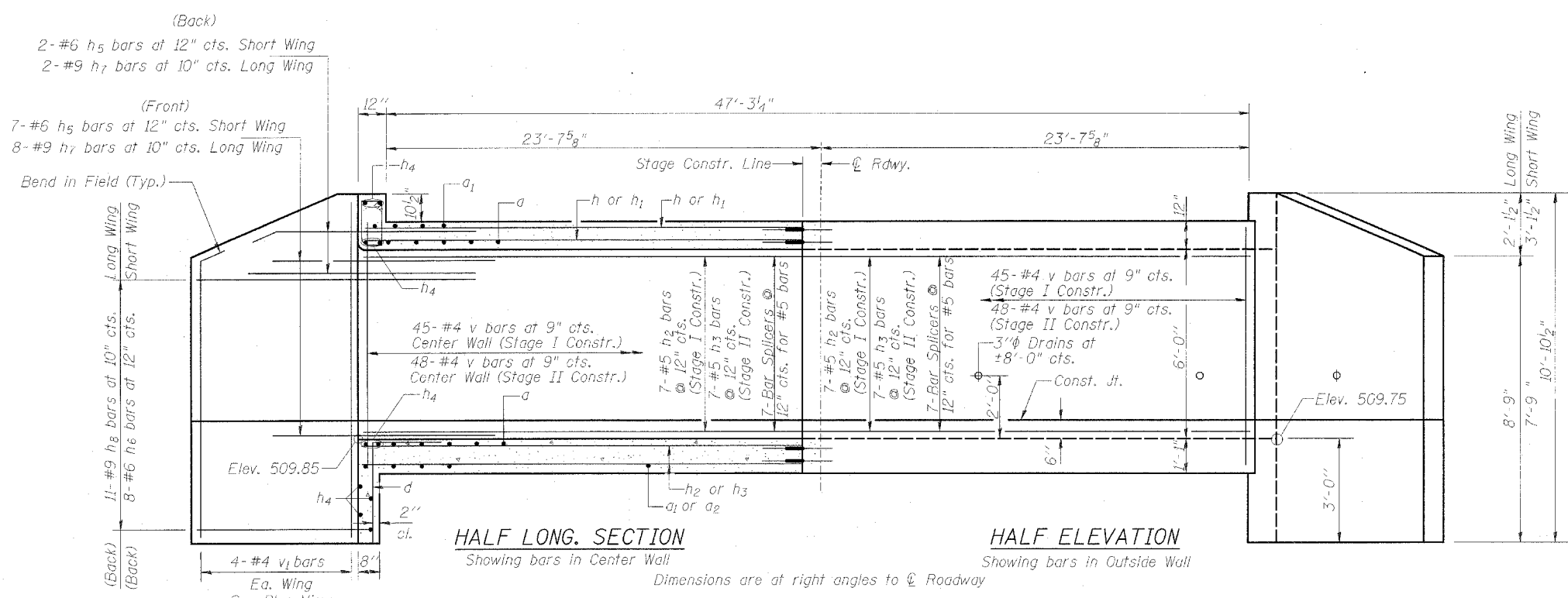
CHAMPAIGN, ILLINOIS
CHICAGO, ILLINOIS
INDIANAPOLIS, INDIANA
EVANSVILLE, INDIANA
KENOSHA, WISCONSIN
SPRING GREEN, WISCONSIN

REVISIONS		DRAWING NUMBER
NAME	DATE	
		S-2

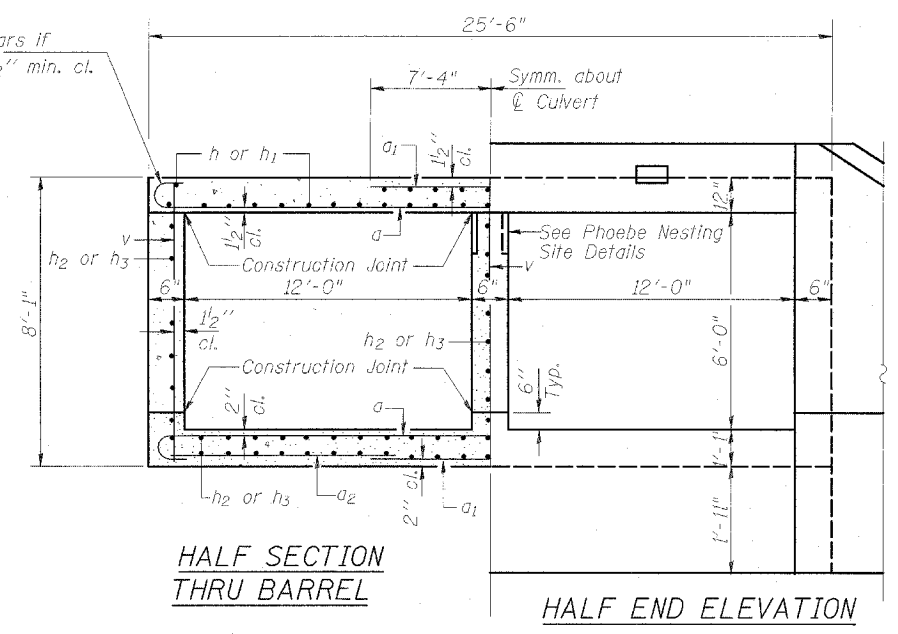
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DRAWN BY: M.E.W. DATE: 4-05
CHECKED BY: M.H.
APPROVED BY: S.C.J.
ACTIVITY INITIALS

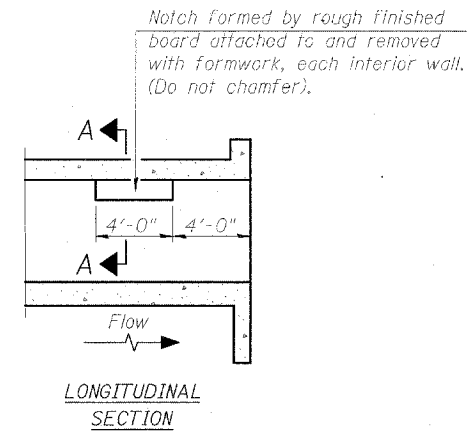
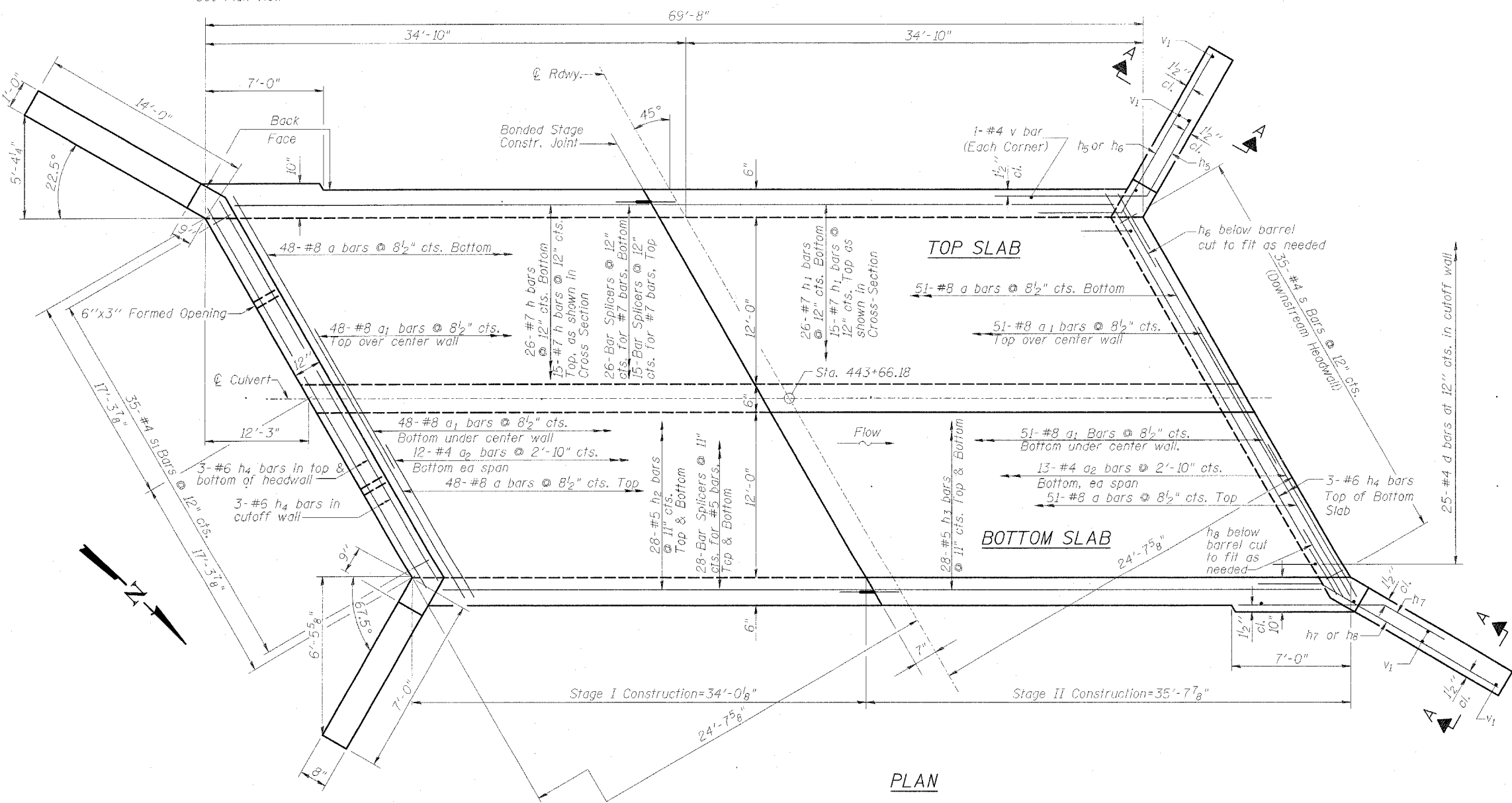
Contract #94778



Tilt hook of a bars if necessary for 1 1/2" min. cl.



Notes: A distance of half the length of the wingwall but not less than six feet of the barrel shall be poured monolithically with the wingwalls.
Bars indicated thus 12x4-#5 etc. indicates 12 lines of bars with 4 lengths per line.



PHOEBE NESTING SITE DETAILS (Downstream End Only)

REVISIONS	
NAME	DATE

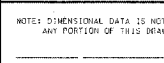
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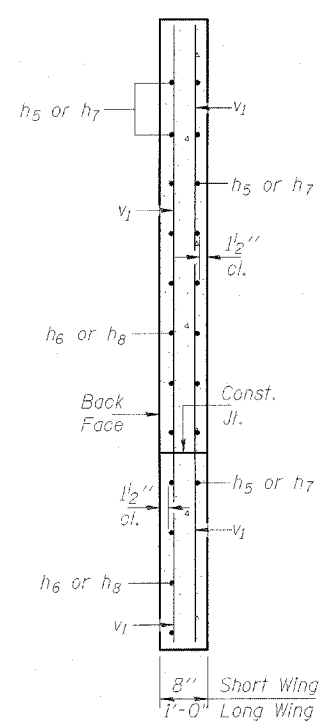
DESIGNED BY: S.M.M. PROJECT NO: 122286
 DRAWN BY: M.E.W. DATE: 4-25
 CHECKED BY: M.M.L.
 APPROVED BY: S.C.J.

DRAWING NUMBER: S-3

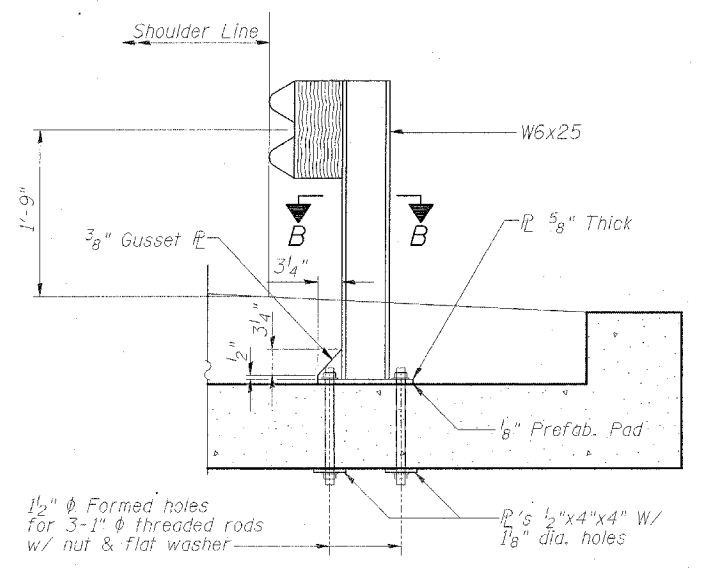
REINFORCING PLAN AND ELEVATION
 U.S. ROUTE 51 OVER STEVE CREEK
 F.A.P. ROUTE 322 - SECTION (24B)B-1
 FAYETTE COUNTY
 STATION 443+66.18
 STRUCTURE NO. 026-2018

CHAMPAIGN, ILLINOIS
 CHICAGO, ILLINOIS
 INDIANAPOLIS, INDIANA
 EVANSVILLE, INDIANA
 KENOSHA, WISCONSIN
 SPRING GREEN, WISCONSIN

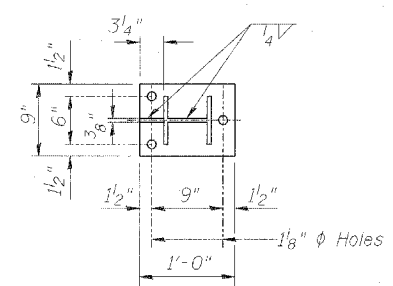




SECTION A-A



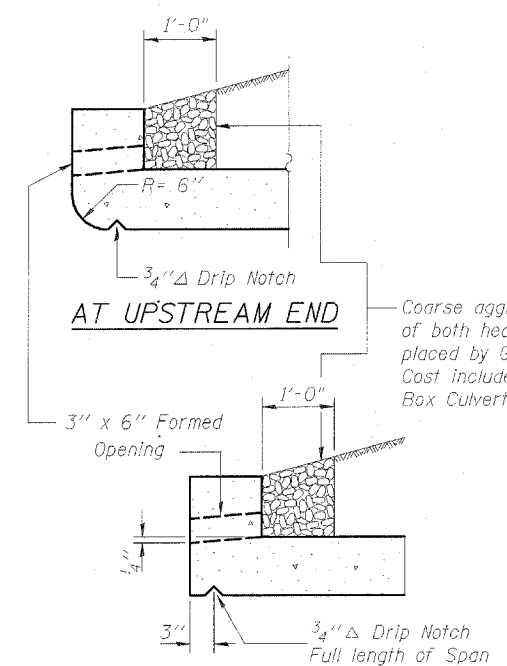
CROSS-SECTION
(Maximum Post Spacing = 6'-3")



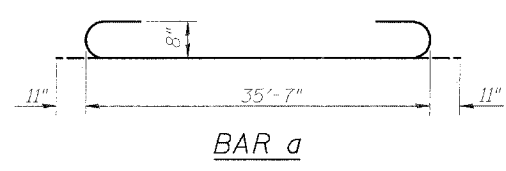
SECTION C-C

STEEL PLATE BEAM GUARDRAIL DETAILS

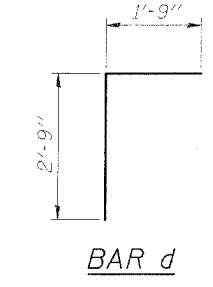
For details of guardrail elements not shown, see Standard 630001.



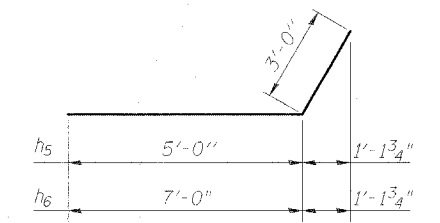
DRAIN DETAIL



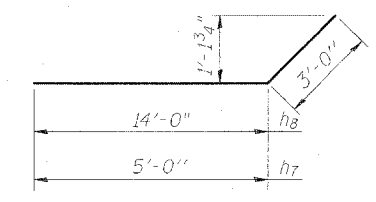
BAR a



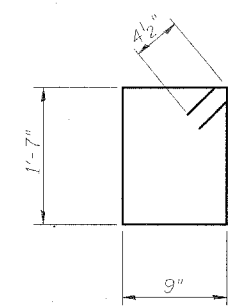
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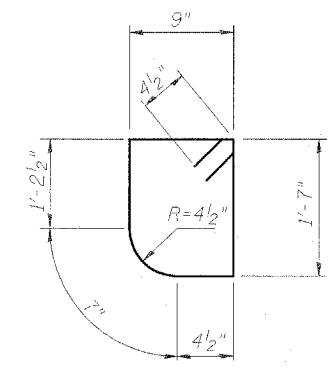
BARS h5 & h6



BARS h7 & h8



BAR s



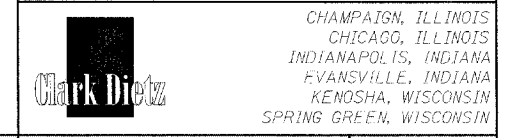
BAR s1

BILL OF MATERIAL

Bar	No.	Size	Length	Shape
a	198	#8	37'-5"	U
a1	198	#8	20'-8"	U
a2	50	#4	9'-5"	U
d	50	#4	4'-6"	L
h	41	#7	33'-8"	U
h1	41	#7	35'-4"	U
h2	77	#5	33'-8"	U
h3	77	#5	35'-4"	U
h4	24	#6	34'-11"	U
h5	18	#6	8'-0"	U
h6	16	#6	10'-0"	U
h7	20	#9	8'-0"	U
h8	22	#9	17'-0"	U
s	35	#4	5'-5"	L
s1	35	#4	5'-3"	L
v	283	#4	7'-8"	U
v1	16	#4	10'-6"	U
Concrete Box Culverts			Cu. Yd.	180.6
Reinforcement Bars			Pound	47,840

SECTIONS, DETAILS & BILL OF MATERIAL

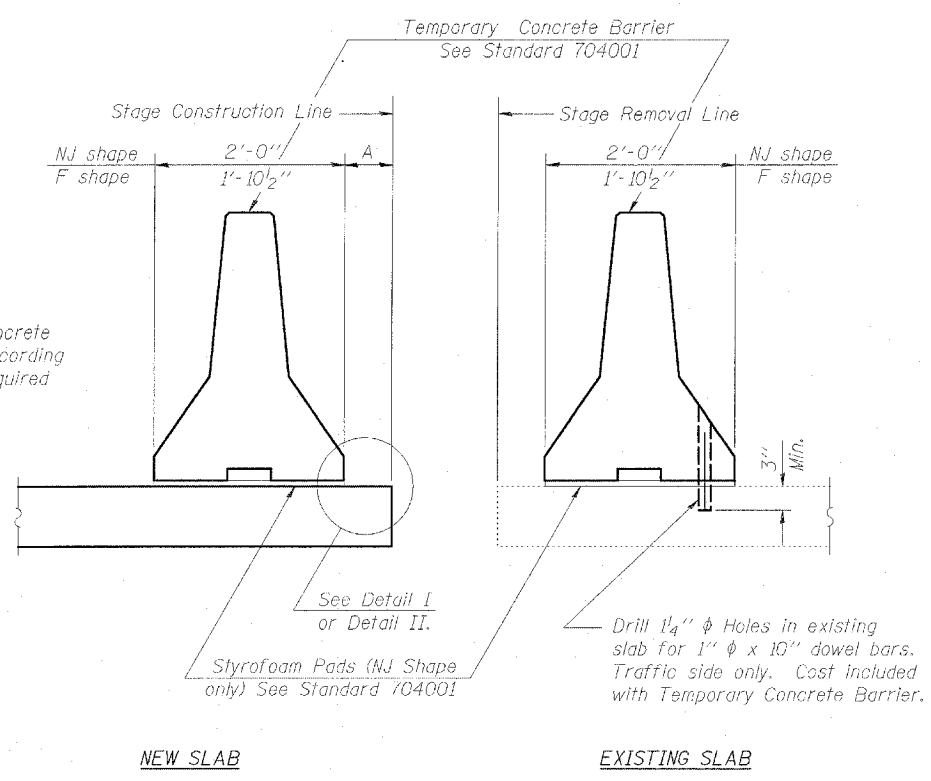
U.S. ROUTE 51 OVER
STEVE CREEK
F.A.P. ROUTE 322 - SECTION (24)B-1
FAYETTE COUNTY
STATION 443+66.18
STRUCTURE NO. 026-2018



REVISIONS	
NAME	DATE

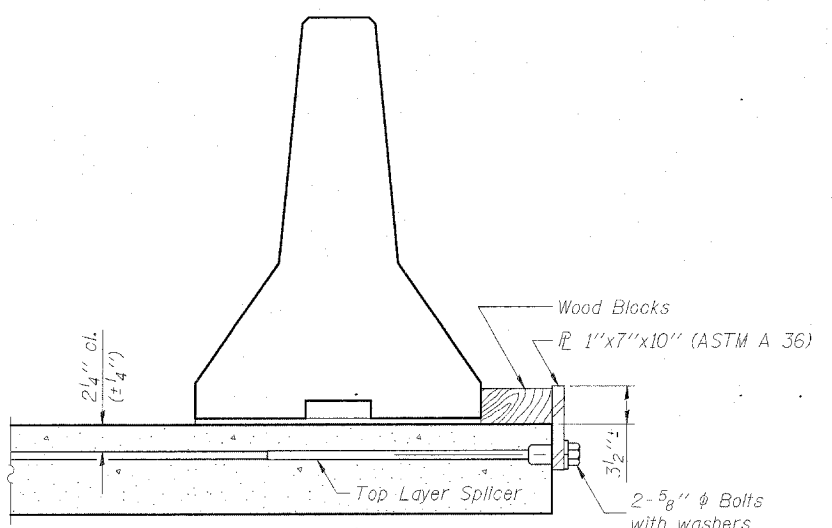
DESIGNED BY: S.M.M.	PROJECT NO: 102286	DRAWING NUMBER S-4
DRAWN BY: M.E.W.	DATE: 4.05	
CHECKED BY: M.M.		
APPROVED BY: S.C.J.	INITIALS	

Contract #94778



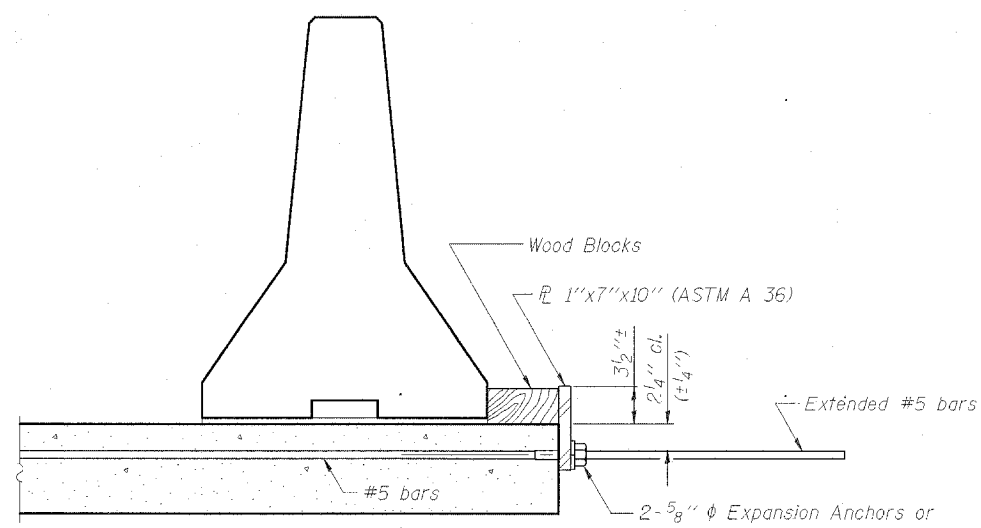
When "A" is 3'-6" or less, the temporary concrete barrier shall be anchored to the new slab according to Detail I or Detail II. No anchorage is required when "A" is greater than 3'-6".

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.

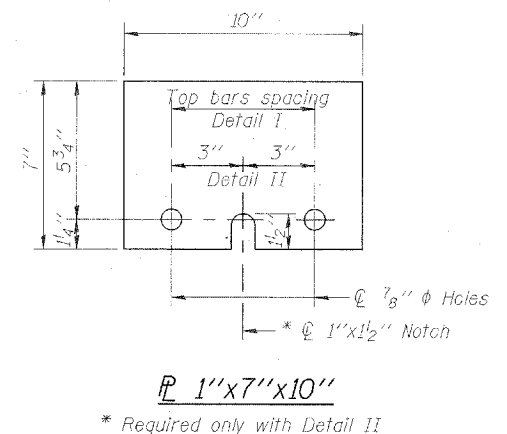


DETAIL II

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.

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 C 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 C of each barrier panel.
- Cost of anchorage is included with Temporary Concrete Barrier.



1"x7"x10"

* Required only with Detail II

TEMPORARY CONCRETE BARRIER FOR STAGE CONSTRUCTION

U.S. ROUTE 51 OVER STEVE CREEK
F.A.P. ROUTE 322 - SECTION (24B)B-1
FAYETTE COUNTY
STATION 443+66.18
STRUCTURE NO. 026-2018

CHAMPAIGN, ILLINOIS
CHICAGO, ILLINOIS
INDIANAPOLIS, INDIANA
EVANSVILLE, INDIANA
KENOSHA, WISCONSIN
SPRING GREEN, WISCONSIN



REVISIONS		DRAWING NUMBER
NAME	DATE	
		S-5

NOTE: DIMENSIONAL DATA IS NOT TO BE OBTAINED BY SCALING ANY PORTION OF THIS DRAWING.

DESIGNED BY: S.M.M. PROJECT NO: 102286
 DRAWN BY: M.E.W. DATE: 4-05
 CHECKED BY: M.M.
 APPROVED BY: S.C.J.
 ACTIVITY: INITIALS

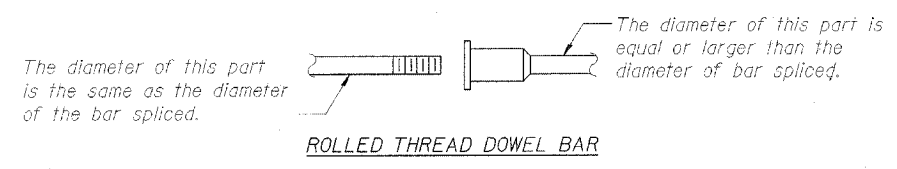
Contract #94778

NOTES

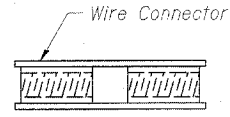
Bar splicer assemblies shall be of an approved type and shall develop in tension at least 125 percent of the yield strength of the lapped reinforcement bars.
 Splicer rods shall be of minimum 60 ksi yield strength, threaded or coiled full length.
 All reinforcement bars shall be lapped and tied to the 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 = $1.25 \times f_y \times A_f$
(Tension in kips)
- ② Minimum *Pull-out Strength = $1.25 \times f_{s_{allow}} \times A_f$
(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_f = Tensile stress area of lapped reinforcement bars.
 * = 28 day concrete

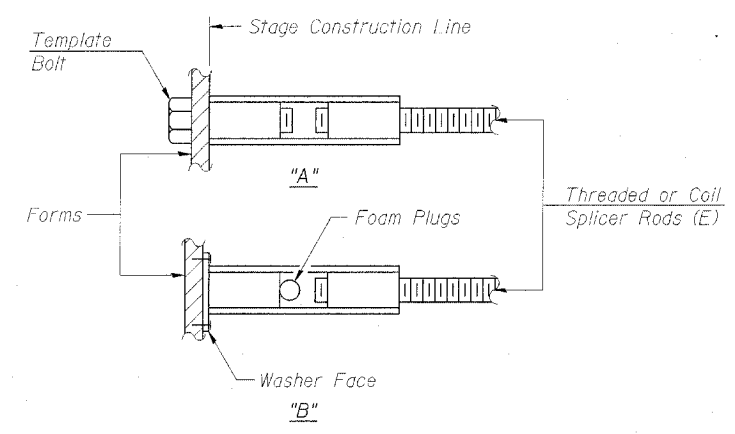


ROLLED THREAD DOWEL BAR



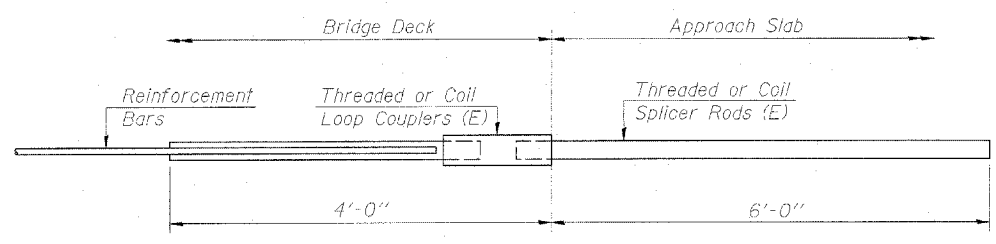
BAR SPLICER ASSEMBLY ALTERNATIVES

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



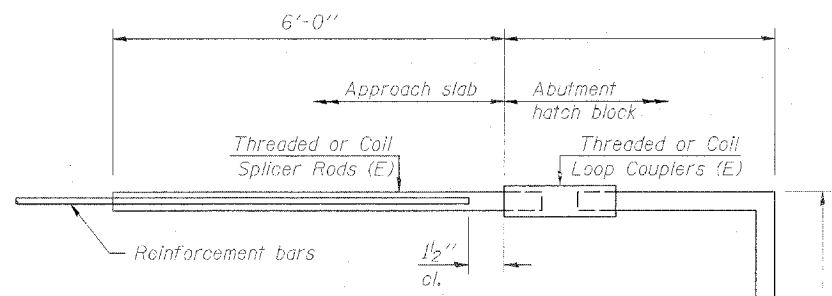
INSTALLATION AND SETTING METHODS

"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.



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 =	

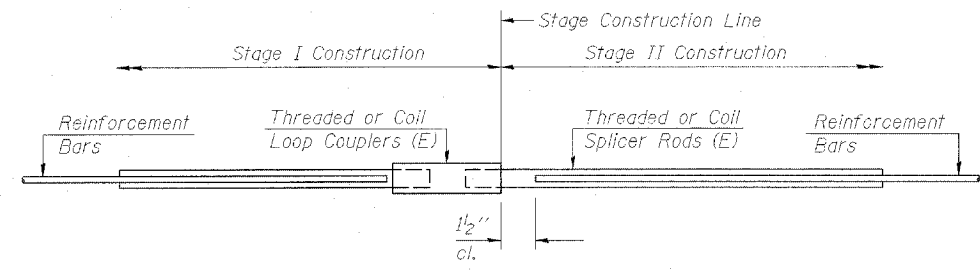


FOR PILE BENT ABUTMENTS

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

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."



STANDARD

Bar Size	No. Assemblies Required	Location
7	41	Top Slab
5	77	Walls & Bottom Slab

BAR SPLICER ASSEMBLY DETAILS
 U.S. ROUTE 51 OVER STEVE CREEK
 F.A.P. ROUTE 322 - SECTION (24B)B-1
 FAYETTE COUNTY
 STATION 443+66.18
 STRUCTURE NO. 026-2018



REVISIONS	
NAME	DATE

NOTE: DIMENSIONAL DATA IS NOT TO BE OBTAINED BY SCALING ANY PORTION OF THIS DRAWING.

DESIGNED BY: S.M.M. PROJECT NO: 102286
 DRAWN BY: H.E.W. DATE: 4-05
 CHECKED BY: M.M.
 APPROVED BY: S.C.J.
 ACTIVITY INITIALS

DRAWING NUMBER
S-6

Page 1 of 1

Illinois Department of Transportation
Division of Highway Materials

SOIL BORING LOG

Date 7/24/96

ROUTE FAP 322 (US 51) DESCRIPTION Steve Creek LOGGED BY D. Lux

SECTION (24B)B-1 LOCATION SE 1/4, SEC. 28, TWP. 5 N. RANG. 1 E. 3 PM

COUNTY Fayette DRILLING METHOD Solid Stem Augers HAMMER TYPE Auto 140#

STRUCT. NO. 026-0039 D E L U M
Station 443+66.18 P O C O S
H S O U T

BORING NO. 1 Groundwater Elev.:
Station 51.8 N of existing center First Encounter 507.4 ft
Offset 14.0 ft W of existing CL Upon Completion 507.5 ft
Ground Surface Elev. 517.87 ft (ft) (V/S) (tsf) (C)

DEPTH (ft)	SOIL DESCRIPTION	DEPTH (ft)	SOIL DESCRIPTION
0	Surface Water Elev. 512.10 ft Stream Bed Elev. 510.58 ft	0	Surface Water Elev. 512.10 ft Stream Bed Elev. 510.58 ft
0	Groundwater Elev.: First Encounter 507.4 ft Upon Completion 507.5 ft After Hrs. N/A	0	Groundwater Elev.: First Encounter 507.4 ft Upon Completion 507.5 ft After Hrs. N/A
51.87	Augered through earth/aggregate shoulder. 516.97	51.87	Very stiff, damp, gray marbled brown, CLAY TILL. (continued); 516.87
51.87	Medium, damp to very damp, brown, marbled gray & red, CLAY.	51.87	Very stiff to hard, damp, gray, SANDY CLAY TILL.
493.37	2" fine grained sand-sandy loam lens. 493.37	48	6.2 9
-25	Extent of exploration. -25		
518.26	Benchmark: USGS #J265 Brass Cap on top of NE wingwall on existing bridge = 518.26'		
509.37	Medium to stiff, damp, gray marbled brown & red, CLAY. 508.37		
508.37	Medium, very damp, gray marbled brown, CLAY w/ one 1" sand lens and some 3/8" gravel.		
504.37	Medium to stiff, very damp, gray marbled brown, CLAY w/ sand and some 3/8" gravel. 504.37		
501.87	Medium to stiff, water bearing, brown marbled gray & red, mixture of CLAY, SANDY CLAY, SANDY LOAM and SAND w/ 1/2" gravel & 2" clay till lens. 499.87		
499.87	Very stiff, damp, gray marbled brown, CLAY TILL.		

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B)-Bulge, (S)-Shear, (P)-Penetrometer.
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)
BBS, from 137 (Rev. 8-99)

Page 1 of 1

Illinois Department of Transportation
Division of Highway Materials

SOIL BORING LOG

Date 7/24/96

ROUTE FAP 322 (US 51) DESCRIPTION Steve Creek LOGGED BY D. Lux

SECTION (24B)B-1 LOCATION SE 1/4, SEC. 28, TWP. 5 N. RANG. 1 E. 3 PM

COUNTY Fayette DRILLING METHOD Solid Stem Augers HAMMER TYPE Auto 140#

STRUCT. NO. 026-0039 D E L U M
Station 443+66.18 P O C O S
H S O U T

BORING NO. 2 Groundwater Elev.:
Station 64.6' S of existing center First Encounter 510.8 ft
Offset 55.0 ft E of existing CL Upon Completion 507.3 ft
Ground Surface Elev. 516.29 ft (ft) (V/S) (tsf) (C)

DEPTH (ft)	SOIL DESCRIPTION	DEPTH (ft)	SOIL DESCRIPTION
0	Surface Water Elev. 512.10 ft Stream Bed Elev. 510.58 ft	0	Surface Water Elev. 512.10 ft Stream Bed Elev. 510.58 ft
0	Groundwater Elev.: First Encounter 510.8 ft Upon Completion 507.3 ft After Hrs. N/A	0	Groundwater Elev.: First Encounter 510.8 ft Upon Completion 507.3 ft After Hrs. N/A
514.28	STIFF, damp, brown marbled gray, SILTY CLAY w/ hair roots and organic odor. 514.28	54	4.2 10
494.28	Medium, very damp, gray mottled brown & red, CLAY. 494.28		
-25	Extent of exploration. -25		
518.26	Benchmark: USGS #J265 Brass Cap on top of NE wingwall on existing bridge = 518.26'		
507.78	Higher Sand content, some 1/2" gravel. 507.78		
506.78	Medium to stiff, damp to very damp, gray marbled brown & red, CLAY w/ sand & 1/2" gravel. 506.78		
506.78	Medium, damp to very damp, gray marbled brown & red, CLAY w/ sand & 1/2" gravel and small sandstone fragments.		
502.78	STIFF, damp, brown marbled red, CLAY TILL. 502.78		
500.28	Hard, damp, gray, CLAY TILL. 500.28		

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B)-Bulge, (S)-Shear, (P)-Penetrometer.
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)
BBS, from 137 (Rev. 8-99)

SECTIONS, DETAILS & BILL OF MATERIAL

U.S. ROUTE 51 OVER
STEVE CREEK
F.A.P. ROUTE 322 - SECTION (24B)B-1
FAYETTE COUNTY
STATION 443+66.18
STRUCTURE NO. 026-2018

CHAMPAIGN, ILLINOIS
CHICAGO, ILLINOIS
INDIANAPOLIS, INDIANA
EVANSVILLE, INDIANA
KENOSHA, WISCONSIN
SPRING GREEN, WISCONSIN

Clark Dietz

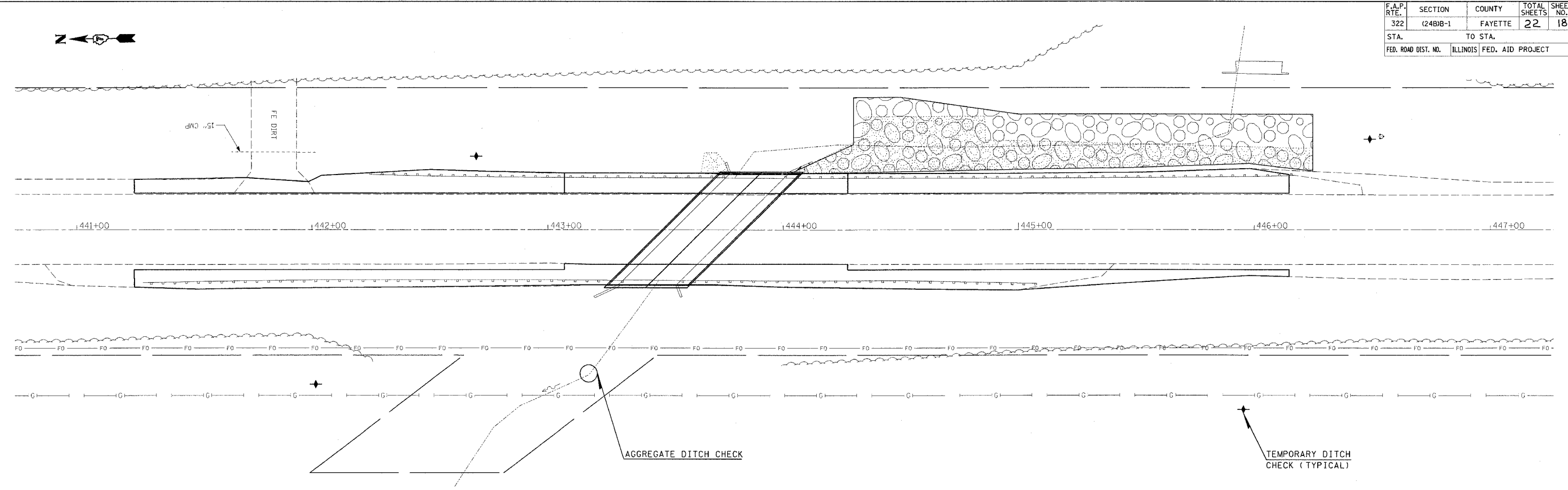
REVISIONS		DRAWING NUMBER
NAME	DATE	
		S-7

NOTE: DIMENSIONAL DATA IS NOT TO BE OBTAINED BY SCALING ANY PORTION OF THIS DRAWING.

DESIGNED BY: <u>S.M.M.</u>	PROJECT NO: <u>102286</u>
DRAWN BY: <u>M.E.W.</u>	DATE: <u>4-95</u>
CHECKED BY: <u>M.M.</u>	
APPROVED BY: <u>S.C.F.</u>	
ACTIVITY: <u>DETAILS</u>	

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
322	(24B)B-1	FAYETTE	22	18
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

teeslejck
 12/22/2005
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EROSION CONTROL GENERAL NOTES

EROSION CONTROL MEASURES AT THE START OF CONSTRUCTION:

1. 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:
 - (a) 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.
 - (b) DEAD, DISEASED, OR UNSUITABLE VEGETATION WITHIN THE SITE SHALL BE REMOVED AS DIRECTED BY THE ENGINEER.
 - (c) 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.

- (d) 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.
- (e) EARTH STOCKPILES SHALL BE TEMPORARILY SEEDED IF THEY ARE TO REMAIN UNUSED FOR MORE THAN FOURTEEN CALENDAR DAYS.

EROSION CONTROL MEASURES AFTER FINAL GRADING:

1. EXCAVATION AND EMBANKMENT AREAS SHALL BE PERMANENTLY SEEDED WHEN FINAL GRADE. EROSION CONTROL BLANKET SHALL BE PLACED ON ALL DISTURBED AREAS.
 - (a) 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.

EROSION CONTROL MEASURES DURING CONSTRUCTION:

1. 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.

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

EROSION CONTROL PLAN

SCALE: VERT. DATE
HORIZ.

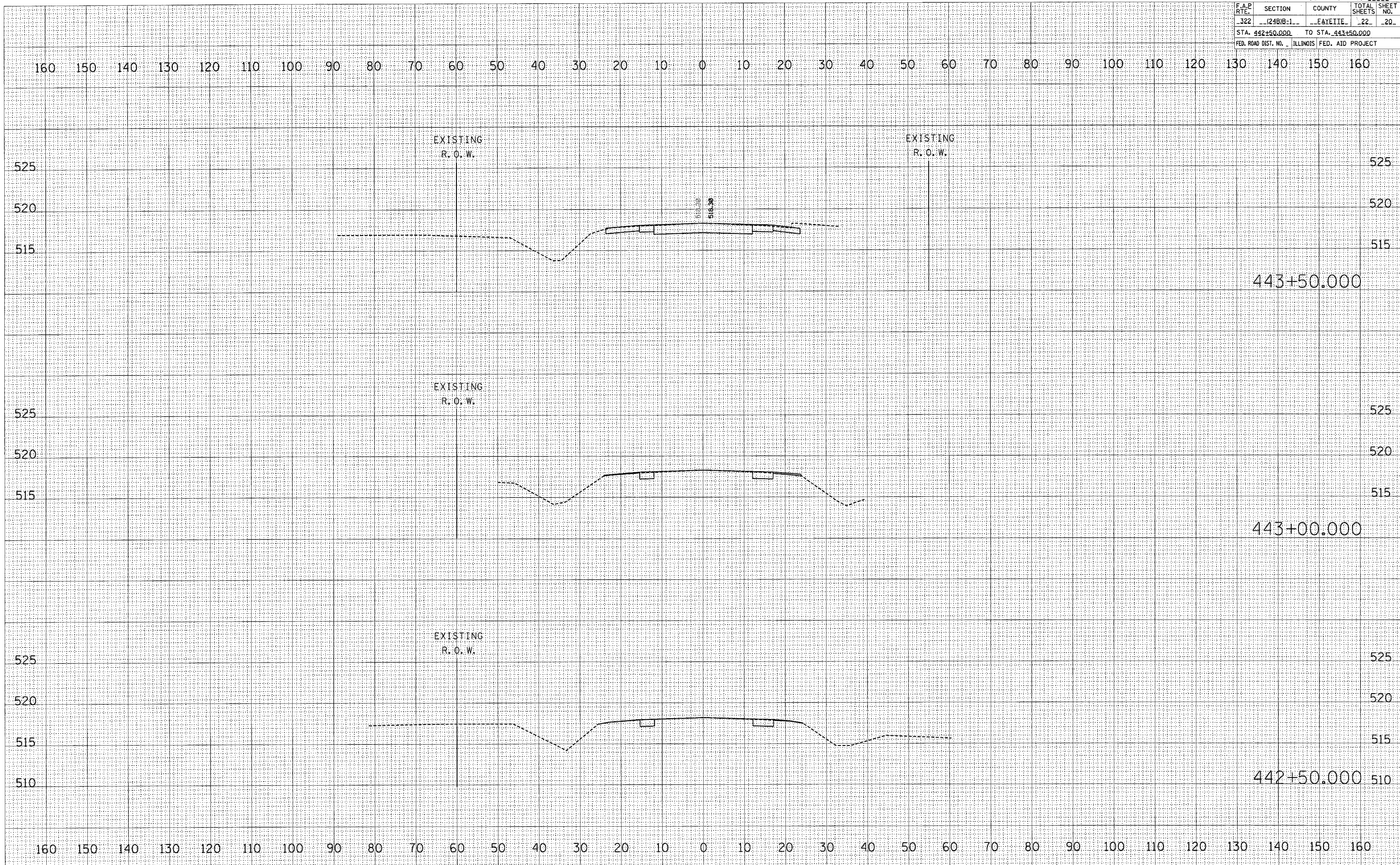
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CHECKED BY

PLOT DATE: 12/22/2005
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 USER: teeslejck

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

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

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 PLOT SCALE = #SCALE#*
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F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
322	124818-1	FAYETTE	22	21
STA. 444+00.000		TO STA. 444+50.000		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

FINAL SURVEY

DATE: _____

BY: _____

SURVEYED _____

PLOTTED _____

REPLATE _____

NO. _____

AREAS CHECKED _____

ORIGINAL SURVEY

DATE: _____

BY: _____

SURVEYED _____

PLOTTED _____

REPLATE _____

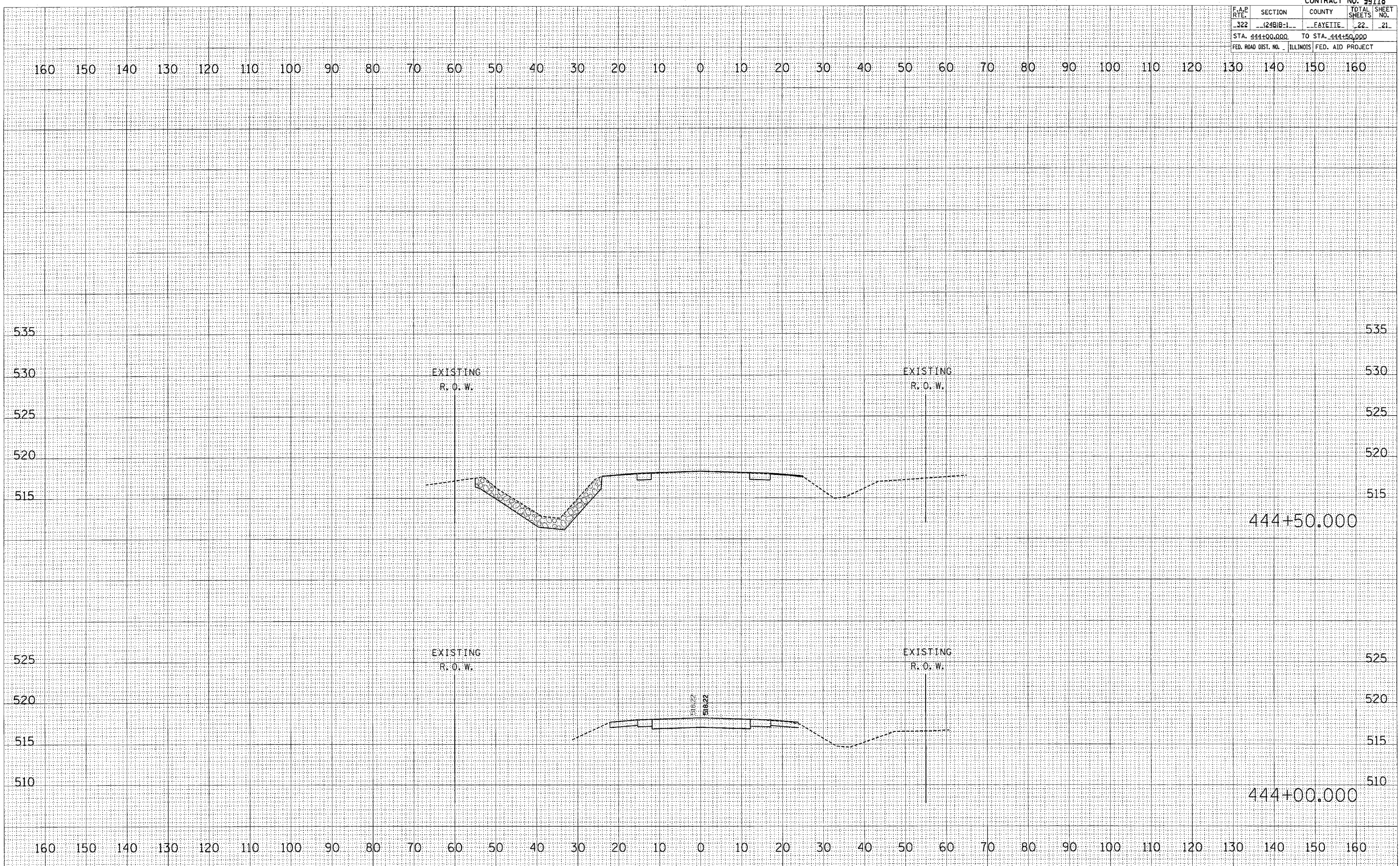
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AREAS CHECKED _____

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PLOT SCALE = @SCALE@

PLOT USER = @USER@



F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
322	124(B)B-1	FAYETTE	22	22
STA. 445+00.000 TO STA. 446+00.000				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

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

DATE: _____
 BY: _____
 CHECKED: _____
 PLOTTED: _____
 TEMPLATE: _____
 AREAS: _____
 AREAS CHECKED: _____
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