

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
782	114B-2	GALLATIN	62	1

CONTRACT NO. 98887

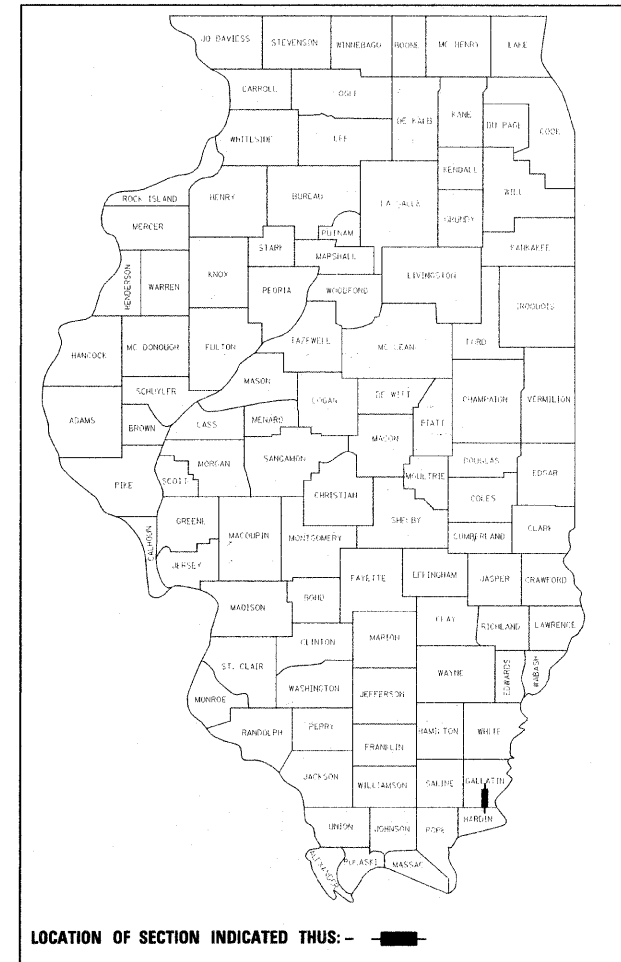
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION  
DIVISION OF HIGHWAYS

**PROPOSED  
HIGHWAY PLANS**

FAP ROUTE 782 (ILL. 1)  
SECTION 114B-2  
GALLATIN COUNTY  
PROJECT: BRF-0782(011)  
C-99-032-08  
STRUCTURE REPLACEMENT ON  
IL 1 OVER BEAVER CREEK

FOR INDEX OF SHEETS, SEE SHEET NO. 3  
FOR SUMMARY OF QUANTITIES, SEE SHEETS NO. 4-7

D-99-030-04



LOCATION OF SECTION INDICATED THUS: -

**TRAFFIC DATA**

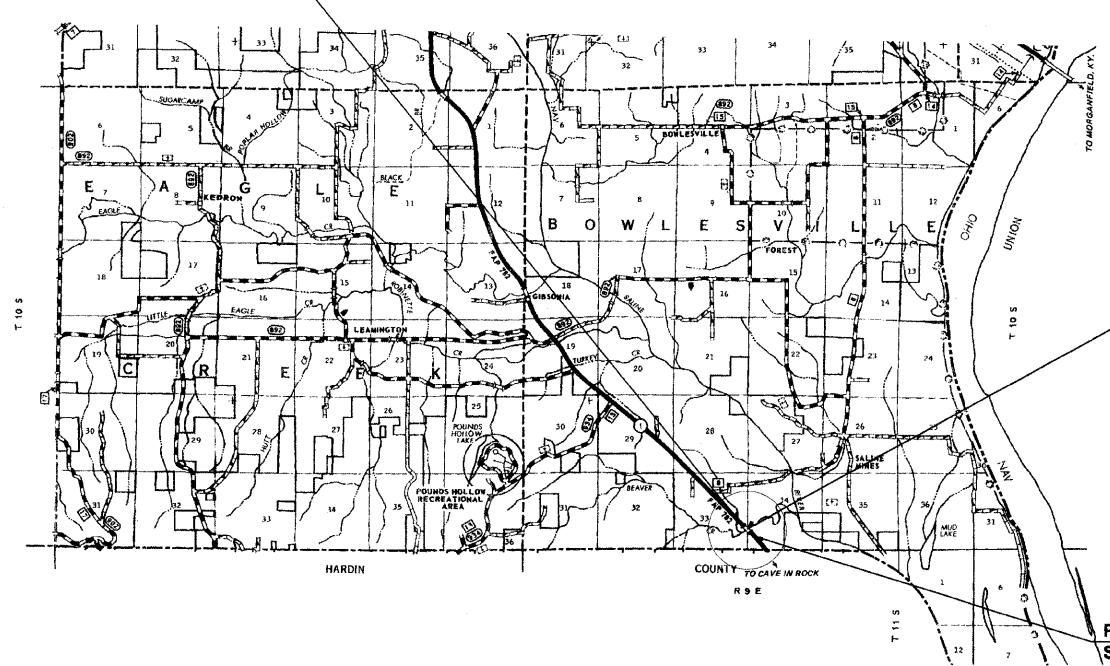
2008 ADT = 2420 WITH 24.4% TRUCKS  
POSTED SPEED = 55 MPH

**TOWNSHIP**

BOWLESVILLE



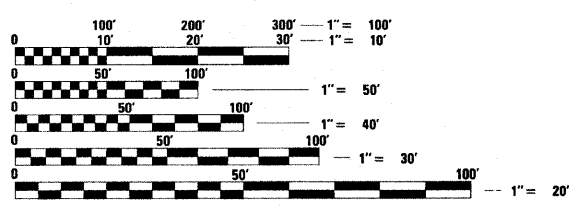
PROPOSED PROJECT BEGINS  
STATION 800+00.00



**PROPOSED BRIDGE**

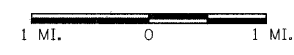
OVER BEAVER CREEK  
STRUCTURE NUMBER 030-0024  
ONE SPAN 63" WEB PLATE GIRDER BRIDGE  
132'-0" BK TO BK ABUTMENTS; 32' CLEAR WIDTH  
CENTERLINE STRUCTURE STATION 803+60.00  
EXISTING STRUCTURE NUMBER 030-0008

PROPOSED PROJECT ENDS  
STATION 807+20.00



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

J.U.L.I.E.  
JOINT UTILITY LOCATION INFORMATION FOR EXCAVATION  
1-800-892-0123 or www.julie1call.com



NET LENGTH OF ROADWAY: 588.0 FEET  
NET LENGTH OF STRUCTURE: 132.0 FEET  
NET LENGTH OF PROJECT: 720.0 FEET

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION  
DIVISION OF HIGHWAYS

SUBMITTED June 18, 20 08  
Man C. James  
DEPUTY DIRECTOR OF HIGHWAYS, REGION ENGINEER

August 15, 20 08  
Eric E. Harn  
ENGINEER OF DESIGN AND ENVIRONMENT

August 15, 20 08  
Christine M. Reed  
DIRECTOR OF HIGHWAYS, CHIEF ENGINEER

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

CONTRACT NO. 98887

PROJECT ENGINEER: CHARLES STEIN  
DESIGN ENGINEER: GEORGE SHEPARD  
CENTREX 782-4554  
1831 549-2171

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
782	114B-2	GALLATIN	61	2
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	

# SIGNATURE SHEET

Prepared By: Joe Z. Long  
DISTRICT STUDIES & PLANS ENGINEER

Examined By: James Lewis Emery  
DISTRICT LAND ACQUISITION ENGINEER

Examined By: Corrie Nelson  
DISTRICT PROGRAM DEVELOPMENT ENGINEER

Examined By: Kevin Krammer  
DISTRICT OPERATIONS ENGINEER

Examined By: Jim Smother  
DISTRICT CONSTRUCTION ENGINEER

Examined By: Bruce W. Peckles  
DISTRICT MATERIALS ENGINEER

Examined By: Jim Smother  
DISTRICT PROJECT IMPLEMENTATION ENGINEER

Examined By: Danny C. Lagton  
ASSISTANT REGIONAL ENGINEER

Approved By: May C. Rami  
DEPUTY DIRECTOR OF HIGHWAYS, REGION ENGINEER

DATE: June 18 2005

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
782	114B-2	GALLATIN	62	3
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

INDEX OF SHEETS

SHEET NO.	DESCRIPTION
1	COVER SHEET
2	SIGNATURE SHEET
3	GENERAL NOTES, STANDARDS, INDEX OF SHEETS, COMMITMENTS, AND MIX DESIGNS
4 - 6	SUMMARY OF QUANTITIES
7 - 8	TYPICAL SECTIONS
9	EARTHWORK AND GUARDRAIL SCHEDULES
10	PAVEMENT AND SHOULDER SCHEDULES
11	PAVEMENT MARKING AND TREE REMOVAL SCHEDULES
12	SEEDING SCHEDULE AND RIGHT OF WAY SCHEDULES
13	PLAN AND PROFILE SHEET
14	PLAN AND PROFILE SHEET OF TEMPORARY DETOUR RUN-AROUND
15	RIGHT OF WAY SHEET
16	EROSION CONTROL SHEET
17	GUARDRAIL AND TERMINAL PLAN
18	REMOVAL AND MAINLINE SHOULDER PLAN
19 - 36	STRUCTURE PLANS
37	DETAILS: BUTT JOINTS AND SEEDING AND MULCHING ON DETOUR ROAD
38	DETAILS: TRAFFIC CONTROL PLAN
39	DETAILS: TYPICAL EARTHWORK STAGING
40	DETAILS: TYPICAL SHOWING STEP CONSTRUCTION ON EXISTING FILL AND RURAL SIDE APPROACH
41 - 62	CROSS SECTIONS HIGHWAY STANDARDS

GENERAL NOTES

PLAN DIMENSIONS AND DETAILS RELATIVE TO THE EXISTING STRUCTURE HAVE BEEN TAKEN FROM EXISTING PLANS AND ARE SUBJECT TO NOMINAL CONSTRUCTION VARIATIONS. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY SUCH DIMENSIONS AND DETAILS IN THE FIELD AND MAKE NECESSARY APPROVED ADJUSTMENTS PRIOR TO CONSTRUCTION OR ORDERING OF MATERIALS. SUCH VARIATIONS SHALL NOT BE A CAUSE FOR ADDITIONAL COMPENSATION OR A CHANGE IN THE SCOPE OF THE WORK. THE CONTRACTOR, HOWEVER, WILL BE PAID FOR THE ACTUAL QUANTITY FURNISHED AT THE UNIT PRICE BID FOR THE WORK. CONSTRUCTION PLANS ARE AVAILABLE FOR REVIEW AT THE DISTRICT 9 HEADQUARTERS IN CARBONDALE, ILLINOIS.

IN ADDITION TO THE REQUIREMENTS OF ARTICLE 107.16, THE CONTRACTOR SHALL PROTECT THE SURFACE OF ALL BRIDGE DECK AND BRIDGE APPROACH PAVEMENTS IN A MANNER SATISFACTORY TO THE ENGINEER BEFORE ANY EQUIPMENT IS ALLOWED TO CROSS THE STRUCTURE. PROTECTION SHALL BE PROVIDED FOR ALL EQUIPMENT AS DEFINED IN ARTICLE 101.17 REGARDLESS OF TRACK MOUNTED OR WHEELED.

THE ADVANCE DETECTOR LOOPS ARE TYPICALLY LOCATED 300 FEET IN ADVANCE OF THE STOP BAR. THE BUREAU OF OPERATIONS SHALL APPROVE THE LOOP LOCATIONS PRIOR TO INSTALLATION.

THE DETOUR ROAD WAS DESIGNED AT 45 MPH. THE ACTUAL POSTED SPEED LIMIT SHALL BE AS DIRECTED BY THE ENGINEER.

IN ADDITION TO THE TRAFFIC CONTROL ON SHEET 61, A CHANGEABLE MESSAGE SIGN SHALL BE PLACED ON EACH TERMINAL OF THE JOB AT A LOCATION DETERMINED BY THE ENGINEER. THE COST OF THESE CHANGEABLE MESSAGE SIGNS SHALL BE PAID FOR AT THE AGREED UNIT PRICE FOR CHANGEABLE MESSAGE SIGNS, CAL MONTH. THEY SHALL BE FUNCTIONING TWO WEEKS PRIOR TO CONSTRUCTION AND ONE MONTH AFTER THE BEGINNING OF CONSTRUCTION.

COMMITMENTS

NONE AS OF JUNE 27, 2008.

REFER TO COMMITMENT

FILE FOR ANY COMMITMENTS AFTER THIS DATE.

HMA MIXTURE DESIGNS

Location(s):	Hot-Mix Asphalt Shoulders
Mixture Use(s):	Hot-Mix Asphalt Shoulders
AC/PG:	PG58-22
RAP % (Max):	50
Design Air Voids:	2.0 %, 30 Gyration Design
Mixture Composition: (Gradation Mixture)	HMA Shoulders
Friction Aggregate:	None

Location(s):	Hot-Mix Asphalt Binder Course and Detour
Mixture Use(s):	Hot-Mix Asphalt Binder Course, N90, IL-19.0
AC/PG:	PG64-22
RAP % (Max):	10
Design Air Voids:	4.0 %, 90 Gyration Design
Mixture Composition: (Gradation Mixture)	IL-19.0 mm
Friction Aggregate:	None

Location(s):	Hot-Mix Asphalt Surface Course
Mixture Use(s):	Hot-Mix Asphalt Surface Course, Mix C, N90
AC/PG:	PG64-22
RAP % (Max):	10
Design Air Voids:	4.0 %, 90 Gyration Design
Mixture Composition: (Gradation Mixture)	IL-9.5 mm or IL12.5 mm
Friction Aggregate:	C Surface

LIST OF STANDARDS

000001-05	666001
280001-04	
	701006-02
420001-07	701201-02
420401-06	701301-02
482001-02	701306-01
	701901
515001-02	
	780001-01
601101	781001-02
630001-07	
630201-05	
630301-04	
631031-06	
635006-02	
635011-01	

FACTORS USED FOR ESTIMATING PLAN QUANTITIES ARE AS FOLLOWS AND SHALL NOT BE USED FOR THE BASIS OF FINAL QUANTITIES:

ALL HOT-MIX ASPHALT  
2.016 TONS/CU. YD.

BITUMINOUS MATERIALS:  
ON PAVEMENT  
0.09 GAL./SQ. YD.

INTERMEDIATE LIFTS (FOG COAT)  
0.04 GAL./SQ. YD.

ON AGGREGATE SURFACE  
0.32 GAL./SQ. YD.

AGGREGATE (PRIME COAT)  
0.0015 TONS/SQ. YD.

ALL AGGREGATE  
2.05 TONS/CU. YD.

RIPRAP  
1.50 TONS/CU. YD.

THE QUANTITY OF SHORT TERM PAVEMENT MARKING SHOWN IN THE PLANS IS BASED ON ONE APPLICATION FOR HOT MIX ASPHALT SURFACE COURSE.

ALL TEMPORARY EROSION CONTROL MEASURES SHALL BE LEFT IN PLACE UNTIL REMOVAL IS REQUIRED TO CONSTRUCT FINAL GRADE LINES. AT WHICH TIME, THE PERMANENT EROSION CONTROL SHALL BE INSTALLED.

THE CONTRACTOR SHALL STAMP STATIONING IN THE PROPOSED HOT MIX ASPHALT SURFACE AT 100 m (300 FT.) INTERVALS ON ALTERNATING SIDES OF THE PAVEMENT AND AS DIRECTED BY THE ENGINEER. THE STATION SYMBOL STAMPS USED SHALL BE FURNISHED BY THE CONTRACTOR. THEY SHALL BE 140 mm (5 IN.) TALL, OF A DESIGN APPROVED BY THE ENGINEER, AND SHALL REMAIN THE PROPERTY OF THE CONTRACTOR. STATIONING FOR THIS PROJECT IS INCREASING TO THE SOUTH.

PRIOR TO PLACEMENT OF THE FINAL PAVEMENT MARKINGS THE RESIDENT ENGINEER SHALL CONTACT THE BUREAU OF OPERATIONS AND ARRANGE FOR INSPECTION AND APPROVAL OF THE PAVEMENT MARKING LAYOUT.

AREAS OF TEMPORARY RIPRAP SHOWN ON THE PLANS SHALL BE REMOVED FOR CONSTRUCTION OF FINAL EMBANKMENT. THE COST OF REMOVAL SHALL BE INCLUDED IN THE CONTRACT UNIT PRICE PER CUBIC YARD FOR EARTH EXCAVATION.

AREAS OF EXISTING AGGREGATE SHOULDERS THAT SHALL BE REMOVED FOR CONSTRUCTION OF FINAL SHOULDER SHALL BE INCLUDED IN THE CONTRACT UNIT PRICE PER CUBIC YARD FOR EARTH EXCAVATION.

THE TYPE 6A TEMPORARY TERMINAL SECTIONS SHOWN IN THE PLANS MAY BE REPLACED TO MATCH THE RAILING THAT THE CONTRACTOR CHOOSES TO USE ON THE TEMPORARY BRIDGE. NO EXTRA COMPENSATION SHALL BE ALLOWED IF THE TEMPORARY TYPE 6A TERMINALS SPECIFIED IN THE PLANS ARE CHANGED.

IT WILL BE THE CONTRACTORS RESPONSIBILITY TO REMOVE ANY DEBRIS OR DIRT CAUSED BY CONSTRUCTION ACTIVITY THAT COVERS THE NEW RIPRAP. NO EXTRA COMPENSATION SHALL BE ALLOWED FOR THIS WORK.

PROTECTIVE COAT SHALL BE APPLIED TO THE NEW BRIDGE DECK AND APPROACH PAVEMENTS IN ACCORDANCE WITH ARTICLE 503.19 OF THE STATE STANDARD SPECIFICATIONS. THE SEASONAL EXCEPTION SHALL NOT APPLY. THE PROTECTIVE COAT SHALL BE APPLIED REGARDLESS OF THE CURING METHOD USED. THE RATE OF APPLICATION FOR EACH COAT ON CUT GROOVED AREAS SHALL BE 25 SQUARE YARDS PER GALLON OF MIXTURE.

ATTAINMENT OF PROPER ROADWAY CROSS SLOPE SHALL BE FULLY ACCOMPLISHED WITH HOT MIX ASPHALT BINDER COURSE AS DIRECTED BY THE ENGINEER.

REMOVAL OF THE ENTIRE EXISTING 12" BRIDGE APPROACH PAVEMENTS AND STRUCTURES SHALL BE INCLUDED IN THE CONTRACT UNIT PRICE PER SQUARE YARD FOR PAVEMENT REMOVAL.

AGGREGATE FOR TEMPORARY ACCESS SHALL BE USED AS DIRECTED BY THE ENGINEER FOR MAINTENANCE PURPOSES. THE GRADATION SHALL BE CA-6 OR CA-10 AS DIRECTED BY THE ENGINEER. A QUANTITY OF 35 TONS HAS BEEN ESTIMATED FOR THIS WORK.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
782	114B-2	GALLATIN	62	4
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

# SUMMARY OF QUANTITIES

		RURAL-GALLATIN COUNTY HBP FUNDING 80% FED. 20% STATE X071-2A SN 030-0024	
CODE NUMBER	ITEM DESCRIPTION	UNIT	TOTAL QUANTITIES
20100500	TREE REMOVAL, ACRES	ACRE	1.75
20200100	EARTH EXCAVATION	CU YD	2,423
20300100	CHANNEL EXCAVATION	CU YD	1,719
20400100	BORROW EXCAVATION	CU YD	9,716
20700400	POROUS GRANULAR EMBANKMENT, SPECIAL	CU YD	258
25000200	SEEDING, CLASS 2	ACRE	1.50
25000350	SEEDING, CLASS 7	ACRE	2.50
25000400	NITROGEN FERTILIZER NUTRIENT	POUND	226
25000500	PHOSPHORUS FERTILIZER NUTRIENT	POUND	135
25000600	POTASSIUM FERTILIZER NUTRIENT	POUND	135
25000700	AGRICULTURAL GROUND LIMESTONE	TON	3.0
25100115	MULCH, METHOD 2	ACRE	2.75
25100630	EROSION CONTROL BLANKET	SQ YD	6,364
28000250	TEMPORARY EROSION CONTROL SEEDING	POUND	453
28000300	TEMPORARY DITCH CHECKS	EACH	5
28000400	PERIMETER EROSION BARRIER	FOOT	2,129
28100109	STONE RIPRAP, CLASS A5	SQ YD	2,196
28200200	FILTER FABRIC	SQ YD	2,196
40201000	AGGREGATE FOR TEMPORARY ACCESS	TON	35
40600100	BITUMINOUS MATERIALS (PRIME COAT)	GALLON	467
40600300	AGGREGATE (PRIME COAT)	TON	3
40600982	HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT	SQ YD	201
40600990	TEMPORARY RAMP	SQ YD	46
40603090	HOT MIX ASPHALT BINDER COURSE, IL-19.0, N90	TON	719
40603320	HOT MIX ASPHALT SURFACE COURSE, MIX "C", N90	TON	160
42001165	BRIDGE APPROACH PAVEMENT	SQ YD	222
42001300	PROTECTIVE COAT	SQ YD	266.7

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
782	114B-2	GALLATIN	62	5
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

# SUMMARY OF QUANTITIES

		RURAL-GALLATIN COUNTY HBP FUNDING 80% FED. 20% STATE X071-2A SN 030-0024	
CODE NUMBER	ITEM DESCRIPTION	UNIT	TOTAL QUANTITIES
42001420	BRIDGE APPROACH PAVEMENT CONNECTOR (PCC)	SQ YD	44.5
44000100	PAVEMENT REMOVAL	SQ YD	1,353
44004250	PAVED SHOULDER REMOVAL	SQ YD	124
48203100	HOT-MIX ASPHALT SHOULDERS	TON	307
50100100	REMOVAL OF EXISTING STRUCTURES	EACH	1
50200100	STRUCTURE EXCAVATION	CU YD	240
50300100	FLOOR DRAINS	EACH	14
50300225	CONCRETE STRUCTURES	CU YD	44.4
50300255	CONCRETE SUPERSTRUCTURE	CU YD	187.6
50300260	BRIDGE DECK GROOVING	SQ YD	706.5
50300280	CONCRETE ENCASEMENT	CU YD	4.2
50300300	PROTECTIVE COAT	SQ YD	580
50500105	FURNISHING AND ERECTING STRUCTURAL STEEL	L SUM	1
50500505	STUD SHEAR CONNECTORS	EACH	1,350
50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	44,440
50800515	BAR SPLICERS	EACH	64
51201700	FURNISHING STEEL PILES HP12X74	FOOT	674
51202305	DRIVING PILES	FOOT	674
51203700	TEST PILE STEEL HP12X74	EACH	1
51300105	TEMPORARY BRIDGE COMPLETE	EACH	1
51500100	NAME PLATES	EACH	1
52100520	ANCHOR BOLTS, 1"	EACH	24
542D0223	PIPE CULVERTS, CLASS D, TYPE 1 18"	FOOT	36
54215553	METAL END SECTIONS 18"	EACH	2
59100100	GEOCOMPOSITE WALL DRAIN	SQ YD	108
60109580	PIPE UNDERDRAINS FOR STRUCTURES 4"	FOOT	168

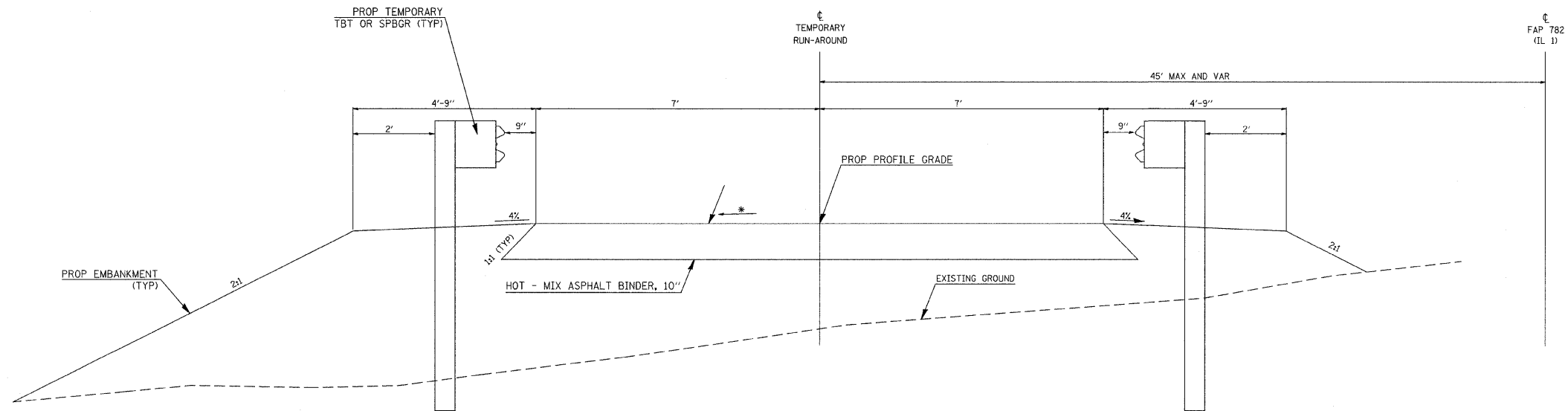
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
782	114B-2	GALLATIN	62	6
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	

# SUMMARY OF QUANTITIES

CODE NUMBER	ITEM DESCRIPTION	UNIT	80% FED. 20% STATE	
			X071-2A	
			SN 030-0024	
			UNIT	TOTAL QUANTITIES
* 63000000	STEEL PLATE BEAM GUARD RAIL, TYPE A		FOOT	400
* 63100085	TRAFFIC BARRIER TERMINAL, TYPE 6		EACH	4
* 63100167	TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT		EACH	4
63200310	GUARDRAIL REMOVAL		FOOT	801
66411900	TEMPORARY FENCE		FOOT	275
66502300	WOVEN WIRE FENCE REMOVAL		FOOT	275
66600105	FURNISHING AND ERECTING RIGHT-OF-WAY MARKERS		EACH	7
67000400	ENGINEER'S FIELD OFFICE, TYPE A		CAL MO	24
67100100	MOBILIZATION		L SUM	1
70100450	TRAFFIC CONTROL AND PROTECTION, STANDARD 701201		L SUM	1
70101000	TRAFFIC CONTROL AND PROTECTION, STANDARD 701331 (SPECIAL)		EACH	1
70106500	TEMPORARY BRIDGE TRAFFIC SIGNALS		EACH	1
70106800	CHANGEABLE MESSAGE SIGN		CAL MO	3
70300100	SHORT-TERM PAVEMENT MARKING		FOOT	156
70300220	TEMPORARY PAVEMENT MARKING - LINE 4"		FOOT	3,898
70301000	WORK ZONE PAVEMENT MARKING REMOVAL		SQ FT	686
70500100	TEMPORARY STEEL PLATE BEAM GUARD RAIL, TYPE A		FOOT	706
70500670	TEMPORARY TRAFFIC BARRIER TERMINAL, TYPE 6A		EACH	4
* 78001110	PAINT PAVEMENT MARKING - LINE 4"		FOOT	2,059
* 78100100	RAISED REFLECTIVE PAVEMENT MARKER		EACH	13
* 78200405	GUARDRAIL MARKERS		EACH	6
* 78201000	TERMINAL MARKER - DIRECT APPLIED		EACH	8
78300100	PAVEMENT MARKING REMOVAL		SQ FT	734
78300200	RAISED REFLECTIVE PAVEMENT MARKER REMOVAL		EACH	13
86200300	UNINTERRUPTIBLE POWER SUPPLY, EXTENDED		EACH	1
X0324744	REMOVAL OF EXISTING PRECAST CONCRETE UNITS		SQ FT	509
X7050167	TEMPORARY TRAFFIC BARRIER TERMINAL, TYPE 1, SPECIAL (TANGENT)		EACH	4

\*Specialty Items

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
782	114B-2	GALLATIN	62	7
STA. _____ TO STA. _____		FED. ROAD DIST. NO. _____ ILLINOIS FED. AID PROJECT		



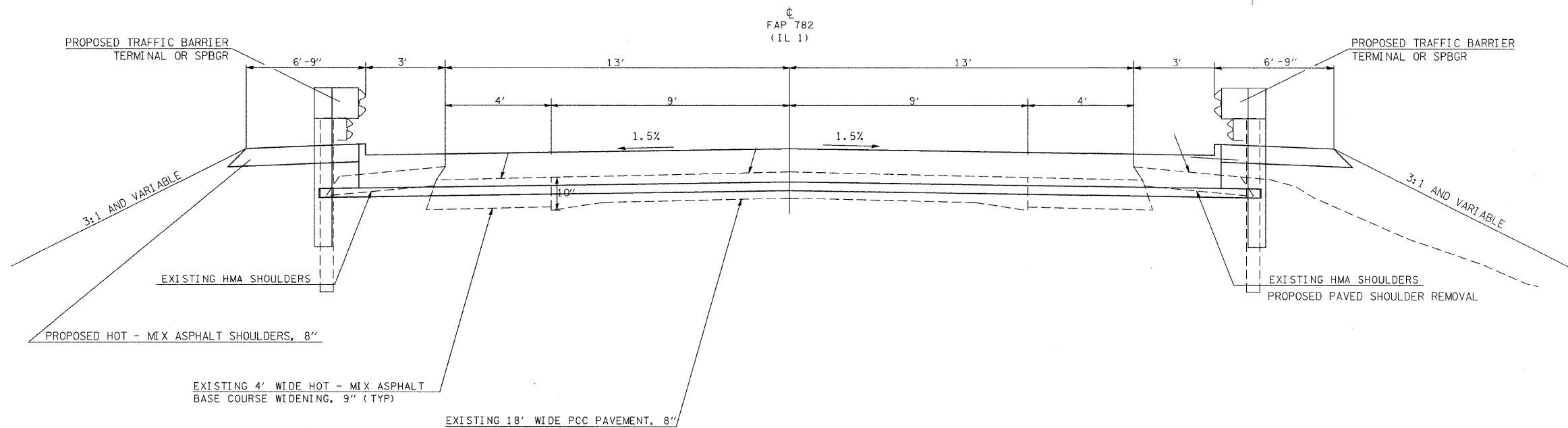
**TYPICAL SECTION**

(TEMPORARY ONE LANE RUNAROUND)  
LOOKING SOUTH

TO BE USED : STA 1+48 TO STA 3+84.80  
STA 5+39.55 TO STA 7+46  
TEMPORARY BRIDGE OMISSION: STA 3+84.80 TO STA 5+39.55

STRUCTURAL DESIGN TRAFFIC: 2028  
PV = 2225 SU = 315 MU = 410  
ROAD/STREET CLASSIFICATION: Class II ROAD  
PERCENT OF STRUCTURAL DESIGN TRAFFIC IN DESIGN LANE:  
P = 75% S = 11% M = 14%  
TRAFFIC FACTOR: Actual TF = 0.52515  
Minimum TF = 0.42975

\*SEE SHEET 14 FOR PAVEMENT CROSS SLOPES



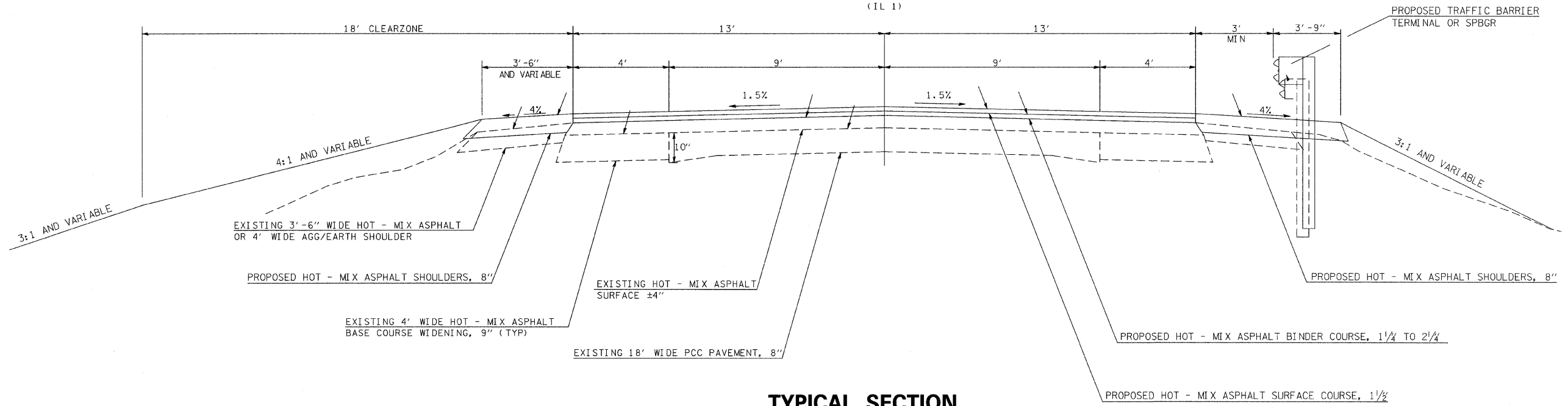
**TYPICAL SECTION**

TO BE USED  
STA 802+58 TO STA 802+93  
STA 804+27 TO STA 804+62

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PLOT SCALE = 50.0000 / IN.  
USER NAME = shane.gdy

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
782	114B-2	GALLATIN	62	8
STA. _____		TO STA. _____		
FED. ROAD DIST. NO. _____		ILLINOIS FED. AID PROJECT		

FAP 782  
(IL 1)



**TYPICAL SECTION**

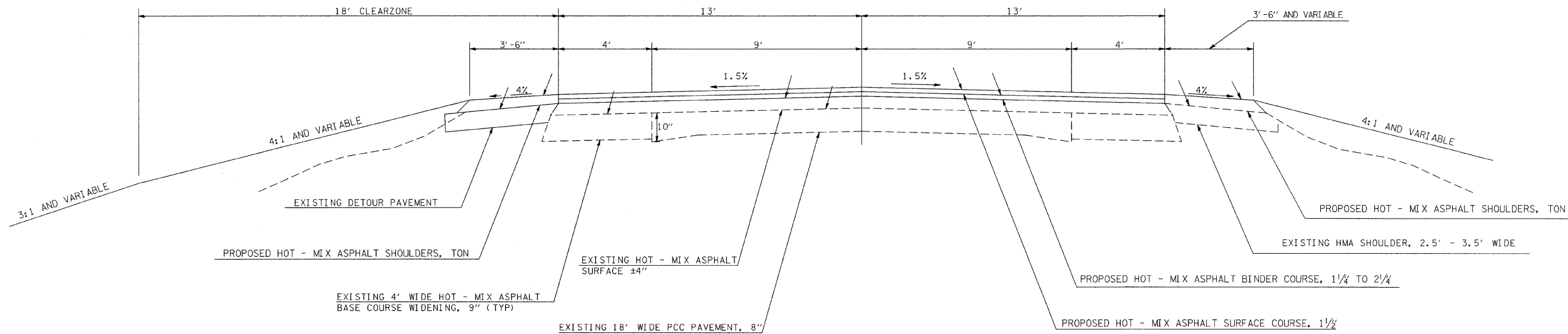
LEFT STA 800+75 TO STA 801+56  
RIGHT STA 799+45 TO STA 801+56

SECTION OUTSIDE  
GUARDRAIL LIMITS

SECTION WITHIN  
GUARDRAIL LIMITS

\*SEE SHEET 13 FOR PAVEMENT CROSS SLOPES

FAP 782  
(IL 1)



**TYPICAL SECTION**

LEFT SIDE SHOWING THE CAPPING OF  
DETOUR PAVEMENT WITH HMA SHOULDER

LEFT STA 799+03 TO STA 800+75  
LEFT STA 806+50 TO STA 808+18

RIGHT SIDE SHOWING THE CAPPING OF  
EXISTING HMA SHOULDER WITH HMA SHOULDER

LEFT STA 801+56 TO STA 802+58  
LEFT STA 804+62 TO STA 806+50  
RIGHT STA 801+56 TO STA 802+58  
RIGHT STA 804+62 TO STA 807+75

STRUCTURAL DESIGN TRAFFIC: 2028  
PV = 2225 SU = 315 MU = 410  
ROAD/STREET CLASSIFICATION: Class II ROAD  
PERCENT OF STRUCTURAL DESIGN TRAFFIC IN DESIGN LANE:  
P = 75% S = 11% M = 14%  
TRAFFIC FACTOR: Actual TF = 0.52515  
Minimum TF = 0.42975

PLOT DATE = 6/20/2008  
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PLOT SCALE = 50.0000 / 1" = 100'-0"  
USER NAME = smpdsg



F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
782	114B-2	GALLATIN	62	9
STA.		TO STA.		
FED. ROAD DIST. NO. _		ILLINOIS	FED. AID PROJECT	

# EARTHWORK SCHEDULE

LOCATION STAGE OF CONSTRUCTION	EARTH EXCAVATION	EMBANKMENT	CHANNEL EXCAVATION ( UNSUITABLE )	SHRINKAGE FACTOR	EXCAVATION ADJUSTED FOR SHRINKAGE	EXCAVATION REQUIRED TO COMPLETE	BORROW EXCAVATION*
	CU YD	CU YD	CU YD		CU YD	CU YD	CU YD
FAP RT. 782 ( IL 1 )							
STAGE I	88	6093		0.47	47	6046	7134
STAGE II	46	2207	1719	0.58	19	2188	2582
STAGE III	2289	174		0.24	1733	0	0
<b>TOTALS</b>	<b>2423</b>		<b>1719</b>				<b>9716</b>

\* A SWELL FACTOR OF 1.18 WAS USED TO CALCULATE BORROW EXCAVATION.  
SWELL FACTORS ARE FOR INFORMATION ONLY.

# GUARDRAIL SCHEDULE

LOCATION STATION TO STATION	TRAFFIC BARRIER TERMINAL				SPBGR TYPE A FOOT	SPBGR TYPE A ( TEMP. ) FOOT	GUARDRAIL REMOVAL FOOT	GUARDRAIL MARKERS EACH	TERMINAL MARKER DIRECT APPLIED EACH
	TYPE 1 SPECIAL		TYPE 6 EACH	TYPE 6A ( TEMP. ) EACH					
	TANGENT ( TEMP. ) EACH	TANGENT EACH							
FAP RT. 782 ( IL 1 )									
LT 801+50.83 TO LT 802+00.83		1			50.0		1	1	
LT 802+00.83 TO LT 802+50.83									
LT 802+50.83 TO LT 802+96.50			1						
LT 804+23.50 TO LT 804+69.17				1					
LT 804+69.17 TO LT 806+19.17					150.0		2		
LT 806+19.17 TO LT 806+69.17		1						1	
RT 800+50.83 TO RT 801+00.83		1						1	
RT 801+00.83 TO RT 802+50.83					150.0		2		
RT 802+50.83 TO RT 802+96.50			1						
RT 804+23.50 TO RT 804+69.17				1					
RT 804+69.17 TO RT 805+19.17					50.0		1		
RT 805+19.17 TO RT 805+69.17		1						1	
LT 801+59.90 TO LT 805+60.40						400.5			
RT 801+59.50 TO RT 805+60.30						400.8			
TEMPORARY RUNAROUND OFFSET RELATIVE TO DETOUR ALIGNMENT									
LT 0+95.28 TO LT 1+45.28	1							1	
LT 1+45.28 TO LT 3+39.03						193.8			
LT 3+39.03 TO LT 3+85.28				1					
LT 5+39.57 TO LT 5+85.82									
LT 5+85.82 TO LT 8+73.32						287.5			
LT 8+73.32 TO LT 9+23.32	1							1	
RT 1+69.64 TO RT 2+19.64	1							1	
RT 2+19.64 TO RT 3+38.39						118.8			
RT 3+38.39 TO RT 3+84.64				1					
RT 5+39.63 TO RT 5+85.88									
RT 5+85.88 TO RT 6+92.13				1		106.3			
RT 6+92.13 TO RT 7+42.13	1							1	
<b>TOTALS</b>	<b>4</b>	<b>4</b>	<b>4</b>	<b>4</b>	<b>400</b>	<b>706</b>	<b>801</b>	<b>6</b>	<b>8</b>

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
782	114B-2	GALLATIN	62	10
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

# SHOULDER SCHEDULE

LOCATION STATION TO STATION			LENGTH (FOR INFORMATION ONLY) FEET	HOT-MIX ASPHALT SHOULDERS TON	PRIME COAT BITUMINOUS MATERIALS GAL	PAVED SHOULDER REMOVAL SQ YD	GENERAL COMMENTS
FAP RT. 782 ( IL 1)							
LT 799+03	TO	LT 800+75	172.0	10.9	7		CAP DETOUR PAVEMENT
LT 800+75	TO	LT 801+17	42.0	8.0	9		CORE AGGREGATE, NEW SHOULDER
LT 801+17	TO	LT 801+41	24.0	6.7	7		CORE AGGREGATE, NEW SHOULDER
LT 801+41	TO	LT 801+56	15.0	5.5	4		CORE AGGREGATE, NEW SHOULDER
LT 801+56	TO	LT 802+58	102.0	28.5	8		CAP EXISTING SHOULDER
LT 802+58	TO	LT 802+93	35.0	8.0	6	11.3	REMOVE SHOULDER, PLACE NEW
LT 802+93	TO	LT 803+00	7.0			2.3	REMOVE SHOULDER
NE QUAD							
LT 804+21	TO	LT 804+27	6.5			2.1	REMOVE SHOULDER
LT 804+27	TO	LT 804+62	35.0	8.0	6	13.6	REMOVE SHOULDER, PLACE NEW
LT 804+62	TO	LT 805+60	98.0	28.5	8		CAP EXISTING SHOULDER
LT 805+60	TO	LT 806+50	90.0	24.5	7		CAP EXISTING SHOULDER
LT 806+50	TO	LT 808+18	168.0	25.4	10	65.3	CAP DETOUR PAVEMENT
SE QUAD							
RT 799+45	TO	RT 800+16	71.0	13.5	11		CORE AGGREGATE, NEW SHOULDER
RT 800+16	TO	RT 800+42	26.0	7.2	5		CORE AGGREGATE, NEW SHOULDER
RT 800+42	TO	RT 801+56	114.0	41.6	31		CORE AGGREGATE, NEW SHOULDER
RT 801+56	TO	RT 802+58	102.0	29.6	8		CAP EXISTING SHOULDER
RT 802+58	TO	RT 802+93	35.0	8.0	6	11.3	REMOVE SHOULDER, PLACE NEW
RT 802+93	TO	RT 803+00	7.0			2.3	REMOVE SHOULDER
NW QUAD							
RT 804+21	TO	RT 804+27	6.5			2.1	REMOVE SHOULDER
RT 804+27	TO	RT 804+62	35.0	8.0	6	13.6	REMOVE SHOULDER, PLACE NEW
RT 804+62	TO	RT 807+75	313.0	45.2	18		CAP EXISTING SHOULDER
SW QUAD							
TOTALS				307	156	124	

# PAVEMENT SCHEDULE

LOCATION STATION TO STATION			LENGTH (FOR INFORMATION ONLY) FEET	AREA (FOR INFORMATION ONLY) SQ FEET	HOT-MIX ASPHALT BINDER COURSE TON	HOT-MIX ASPHALT SURFACE COURSE TON	PRIME COAT		PAVEMENT REMOVAL SQ YD	HOT-MIX ASPHALT PAVEMENT REMOVAL BUTT-JOINT SQ YD	TEMPORARY RAMP SQ YD
							BITUMINOUS MATERIALS GAL	AGGREGATE TON			
DETOUR ROAD											
799+03	TO	799+72	72.2	252.0	17.6		2				
799+72	TO	800+75	104.2	1020.7	66.2		9		75.5		
800+75	TO	802+85	210.2	2983.5	196.6		27		331.5		
802+85	TO	804+40									
804+40	TO	806+36	196.2	2786.3	183.6		25		309.6		
806+36	TO	807+52	116.7	1293.1	83.5		11		80.0		
807+52	TO	808+18	68.2	239.8	16.7		2				
FAP RT. 782 ( IL 1)											
799+45	TO	800+00	55.0			16.6	21	0.3		72.2	20.2
800+00	TO	802+58	258.0		71.9	64.0	97	1.2			
802+58	TO	803+34	76.0						278.7		
803+34	TO	803+87	52.5								
803+87	TO	804+62	75.5						276.8		
804+62	TO	807+20	258.0		82.6	63.8	97	1.2			
807+20	TO	807+75	55.0			15.8	21	0.3		128.3	25.7
TOTALS					719	160	311	3	1353	201	46

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
782	114B-2	GALLATIN	62	11
STA.		TO STA.		
FED. ROAD DIST. NO. _		ILLINOIS	FED. AID PROJECT	

## TREE REMOVAL SCHEDULE

LOCATION STATION AND OFFSETS FROM CENTERLINE	TREE REMOVAL
	ACRES
802+75, 20' RT AND 76' RT	
805+50, 20' RT AND 75' RT	0.35
806+50, 20' RT AND 90' RT	0.14
807+75, 20' RT AND 37' RT	0.18
808+00, 20' RT AND 37' RT	0.03
800+00, 20' LT AND 40' LT	
801+00, 20' LT AND 55' LT	0.06
802+00, 20' LT AND 67' LT	0.09
802+50, 20' LT AND 86' LT	0.06
805+00, 20' LT AND 94' LT	0.40
806+50, 20' LT AND 86' LT	0.24
807+00, 20' LT AND 86' LT	0.06
807+00, 20' LT AND 55' LT	0.07
808+00, 20' LT AND 47' LT	
TOTALS	1.75

## PAVEMENT MARKING SCHEDULE

LOCATION STATION TO STATION	PAVEMENT MARKING REMOVAL SQ FT	TEMPORARY PAVEMENT MARKING LINE - 4"		PAINT PAVEMENT MARKING - LINE 4"		SHORT TERM PAVEMENT MARKING FOOT	WORK ZONE PAVEMENT MARKING REMOVAL SQ FT	RAISED REFLECTIVE PAVEMENT MARKER EACH	RAISED REFLECTIVE PAVEMENT MARKER REMOVAL EACH
		WHITE FOOT	YELLOW FOOT	WHITE FOOT	YELLOW FOOT				
DETOUR									
799+00 TO 799+72	24.0	144.0							
799+72 TO 800+75	34.3	206.0							
800+75 TO 802+85		420.0							
802+85 TO 804+40		310.0							
804+40 TO 806+36		392.0							
806+36 TO 807+52	38.5	231.0							
807+52 TO 808+20	22.7	136.0							
FAP RT. 782 ( IL 1 )									
799+03 TO 808+18	375.0	1830.0	228.8	1830.0	228.8	156.4	686.2	13.0	13.0
TOTALS	494	3669	229	1830	229	156	686	13	13
		3898		2059					

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
782	114B-2	GALLATIN	62	12
STA.		TO STA.		
FED. ROAD DIST. NO. _		ILLINOIS	FED. AID PROJECT	

# SEEDING AND EROSION CONTROL SCHEDULE

LOCATION STATION TO STATION	SEEDING CLASS 2 ACRE	SEEDING CLASS 7 (TEMPORARY) ACRE	NITROGEN FERTILIZER NUTRIENTS		PHOSPHORUS FERTILIZER NUTRIENTS POUND	POTASSIUM FERTILIZER NUTRIENTS POUND	AGRICULTURAL GROUND LIMESTONE TON	EROSION CONTROL BLANKET SQ YD	MULCH METHOD 2 FOR CLASS 2 ACRE	MULCH METHOD 2 FOR CLASS 7 ACRE	TEMPORARY EROSION CONTROL SEEDING POUND
			CLASS 2 POUND	CLASS 7 POUND							
STAGE 1 (DETOUR ROAD)		0.76		30.5				3613.0		0.02	153
STAGE 2 (PRE-FINAL GRADING)	0.65	0.65	58.5	26.0	58.5	58.5	1.3	1042.6	0.43	0.65	130
STAGE 3 (FINAL GRADING)	0.85	0.85	76.5	34.0	76.5	76.5	1.7	1708.0	0.50	0.85	170
TOTALS	1.50	2.50	135	91	135	135	3.0	6364	1.00	1.75	453
			226						2.75		

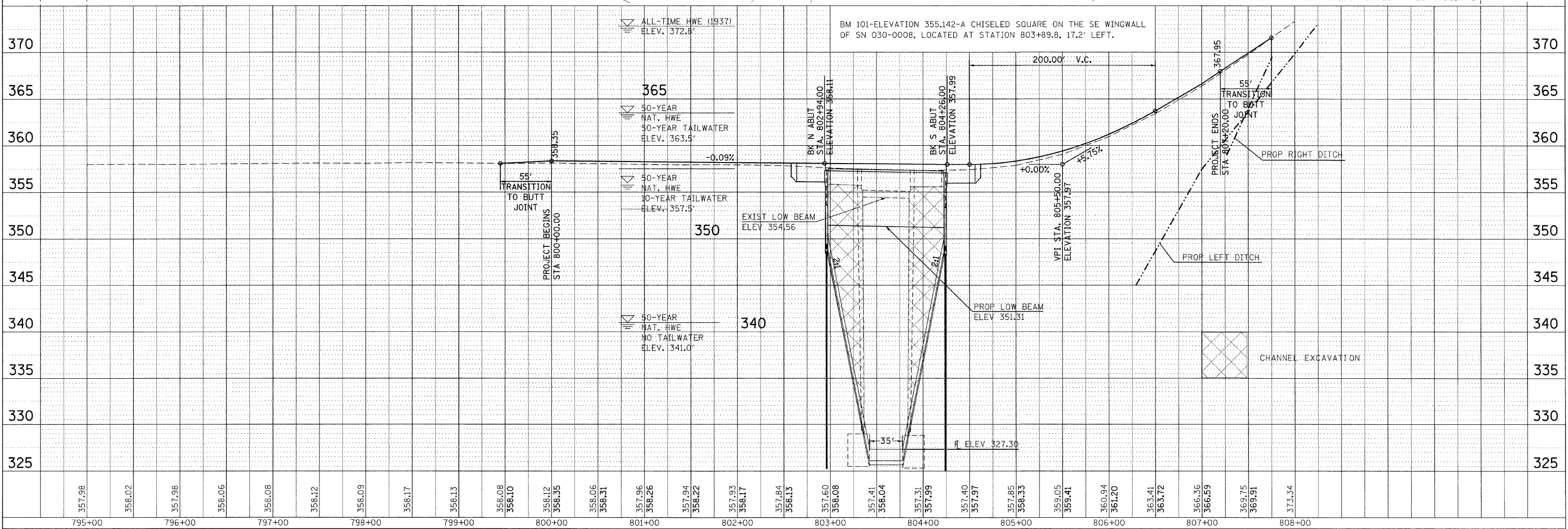
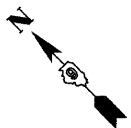
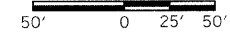
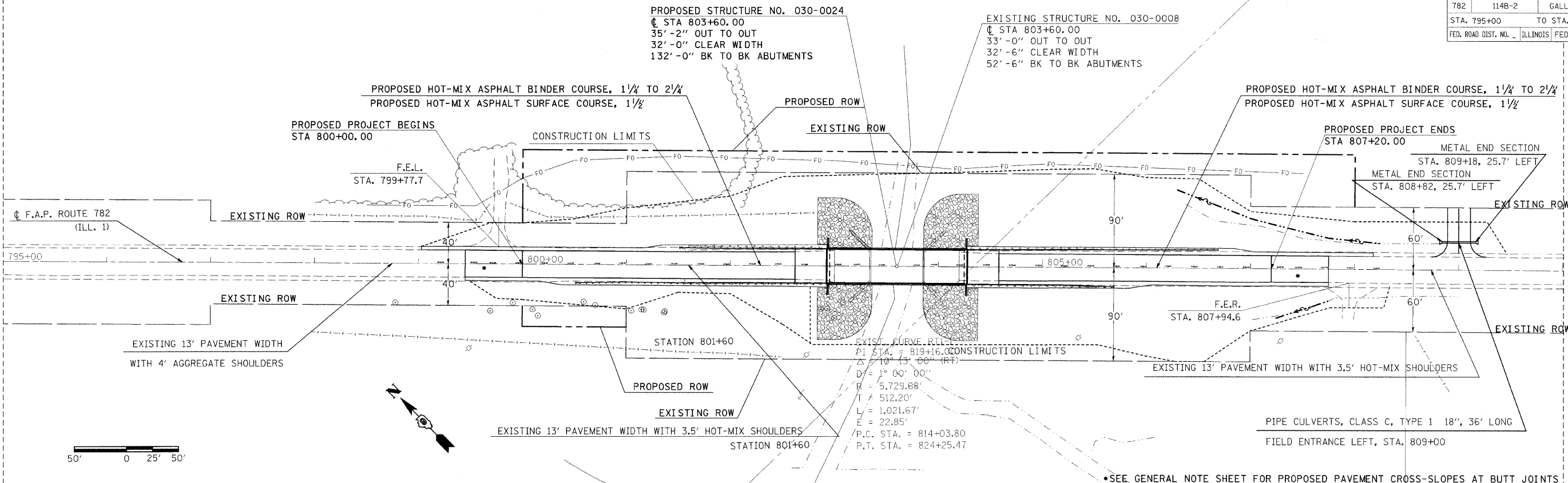
# RIGHT OF WAY SCHEDULE

LOCATION STATION	OFFSET FROM CL FEET	ROW MARKERS EACH
FAP RT. 782 (IL 1)		
800+00	40 RT	1
800+00	60 RT	1
800+00	40 LT	1
800+00	110 LT	1
801+00	60 RT	1
808+00	60 LT	1
808+00	110 LT	1
TOTALS		7

CONTRACT NO. 98887				
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
782	114B-2	GALLATIN	62	13
STA. 795+00		TO STA. 810+00		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

DATE	BY
APPROVED	
ALIGNMENT	
NOTED	
CHECKED	
NO.	
STRUCTURE	
NOTATIONS	
DATE	BY
DATE	BY
DATE	BY
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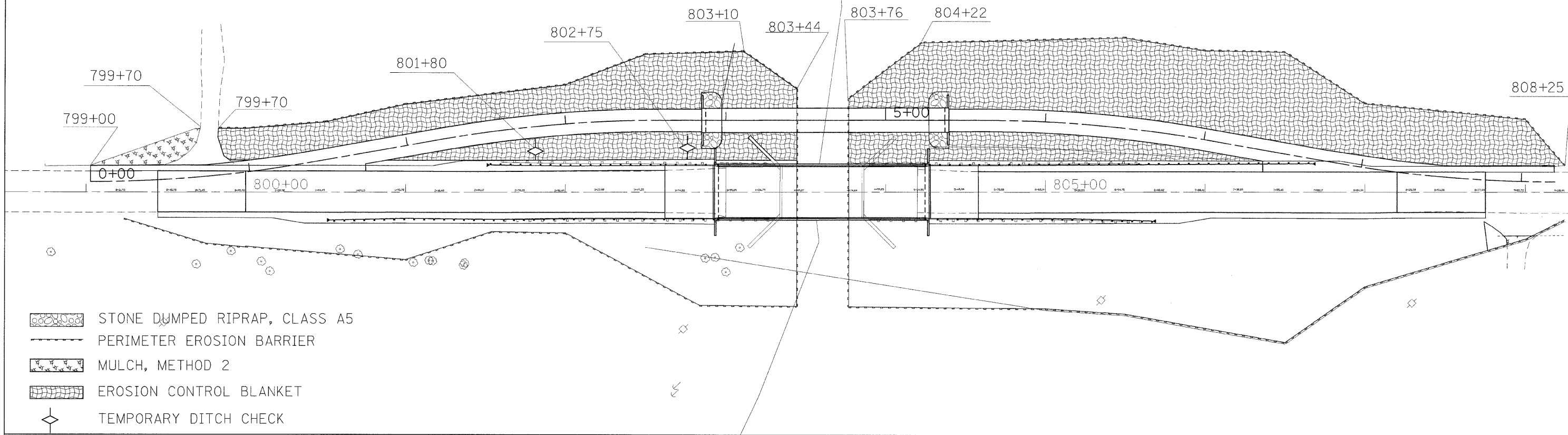
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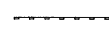
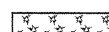
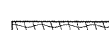





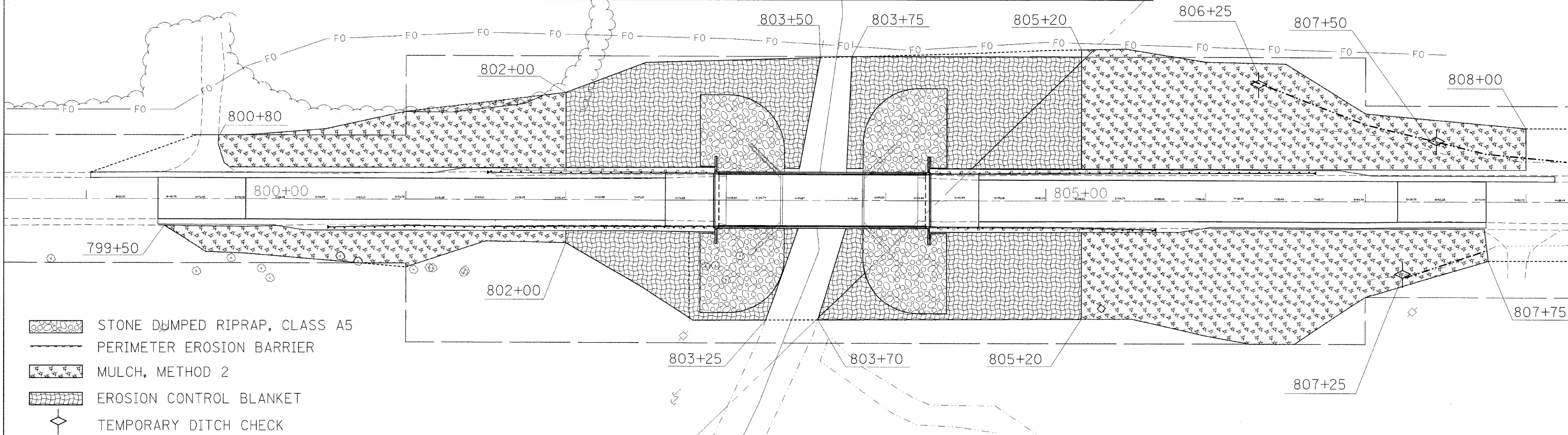
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782	114B-2	GALLATIN	62	16
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		



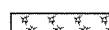


# EROSION CONTROL FOR TEMPORARY DETOUR



-  STONE DUMPED RIPRAP, CLASS A5
-  PERIMETER EROSION BARRIER
-  MULCH, METHOD 2
-  EROSION CONTROL BLANKET
-  TEMPORARY DITCH CHECK

# EROSION CONTROL FOR FINAL GRADING



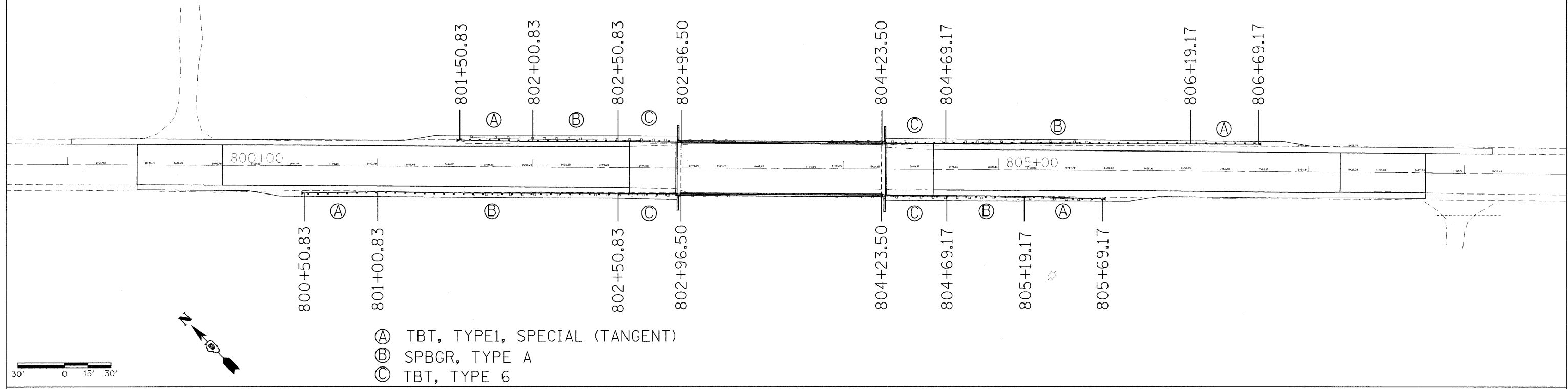
-  STONE DUMPED RIPRAP, CLASS A5
-  PERIMETER EROSION BARRIER
-  MULCH, METHOD 2
-  EROSION CONTROL BLANKET
-  TEMPORARY DITCH CHECK

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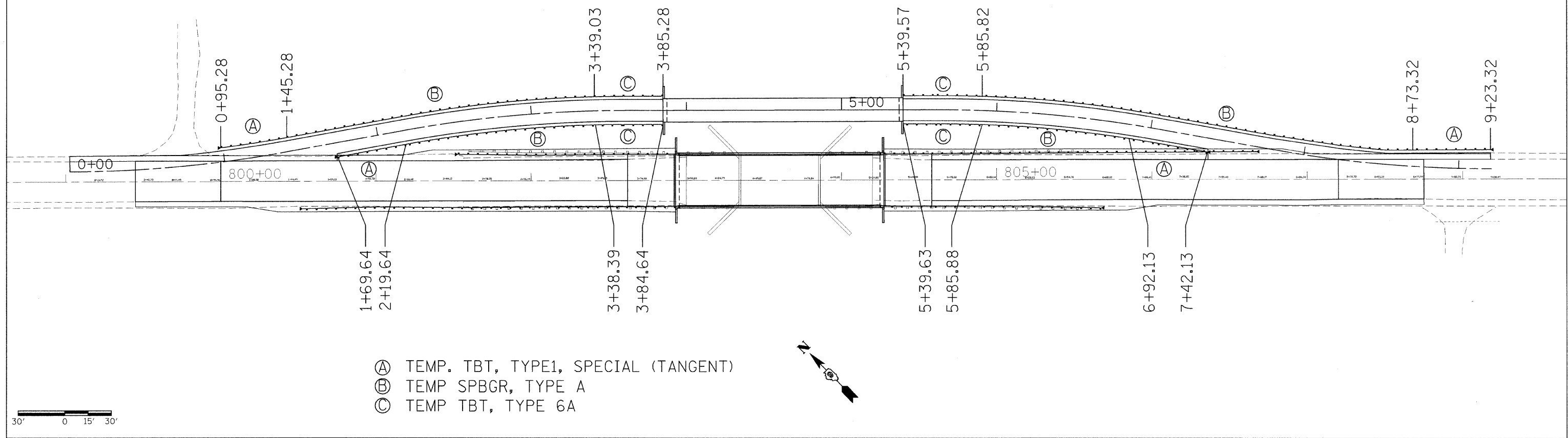


F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
782	114B-2	GALLATIN	62	17
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	

### PERMANENT GUARDRAIL PLAN



### TEMPORARY GUARDRAIL AND TERMINAL PLAN



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F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
782	114B-2	GALLATIN	62	18
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

### REMOVAL PLAN

GUARDRAIL REMOVAL  
LT 801+59.9 TO 805+60.4

BEGIN PAVEMENT REMOVAL  
FOR DETOUR ROAD  
STA. 799+72

PAVEMENT REMOVAL  
802+58 TO 803+34

PAVED SHOULDER REMOVAL  
STA. LT 806+50 TO LT 808+18

0+00

800+00

805+00

WOVEN WIRE FENCE REMOVAL  
STA. 800+25 TO 803+00

PAVEMENT REMOVAL  
803+87 TO 804+62

END PAVEMENT REMOVAL  
FOR DETOUR ROAD  
STA. 807+52

GUARDRAIL REMOVAL  
RT 801+59.5 TO 805+60.3

### MAINLINE SHOULDER PLAN

799+03.0  
16.5' LT

6:1 TAPER

801+41.0  
19'-9" LT

801+17.0  
16.5' LT

802+93.0  
19'-9" LT

804+27.0  
19'-9" LT

806+79.3  
19'-9" LT

6:1 TAPER

808+18.0  
16'-6" LT

807+03.9  
16'-6" LT

800+00

805+00

799+45.0  
16'-6" RT

800+16.4  
16'-6" RT

6:1 TAPER

800+41.7  
19'-9" RT

802+93.0  
19'-9" RT

804+27.0  
19'-9" RT

805+83.8  
19'-9" RT

806+03.5  
16'-6" RT

6:1 TAPER

807+75.0  
16'-6" RT

PLOT DATE = 6/17/2008  
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PLOT SCALE = 3/8" = 1'-0"  
USER NAME = shesardg

Bench Mark: B.M. 101 - Elev. 355.142. A chiseled square on the S.E. wingwall of S.N. 030-0008, located at Sta. 803+89.8, 17.2 ft. left.

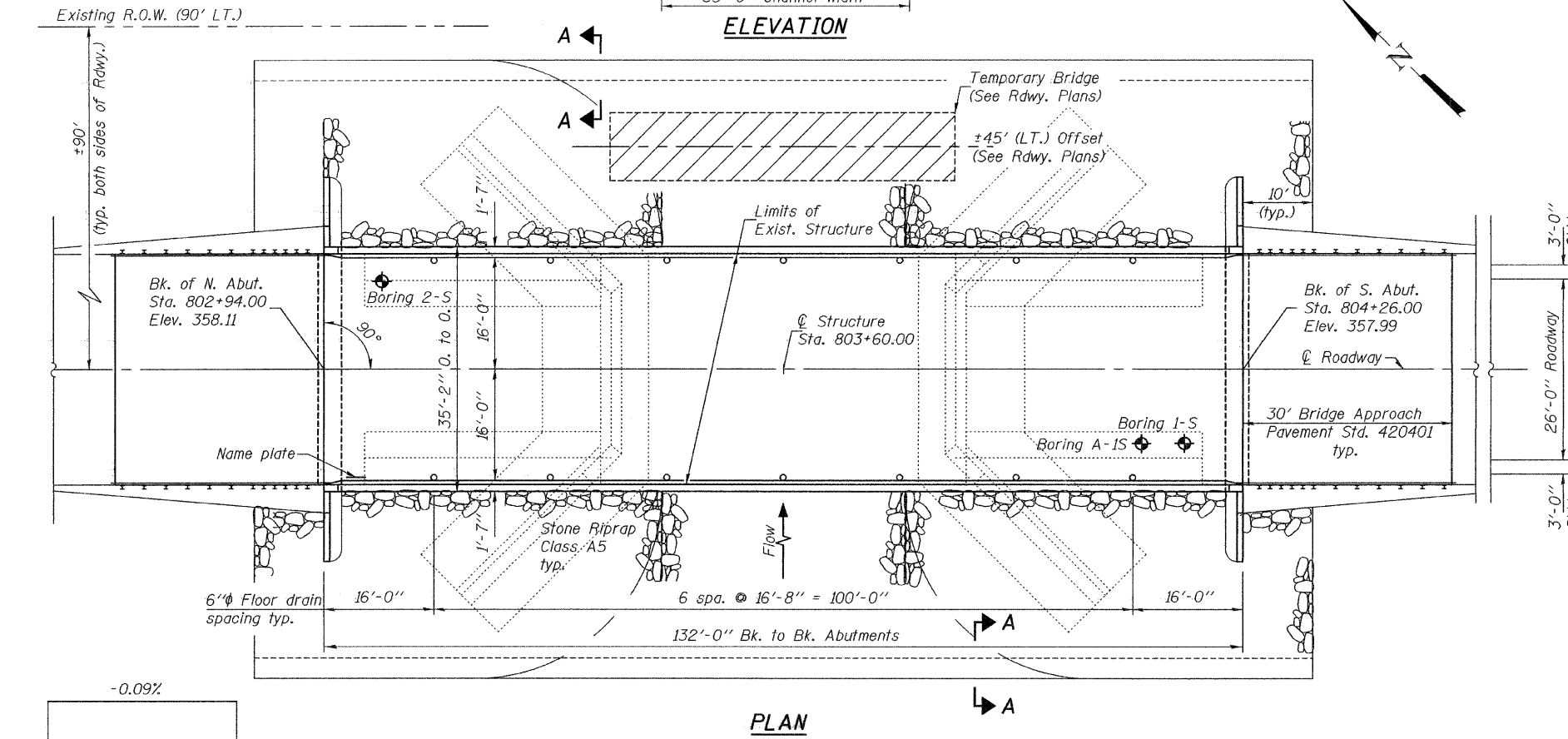
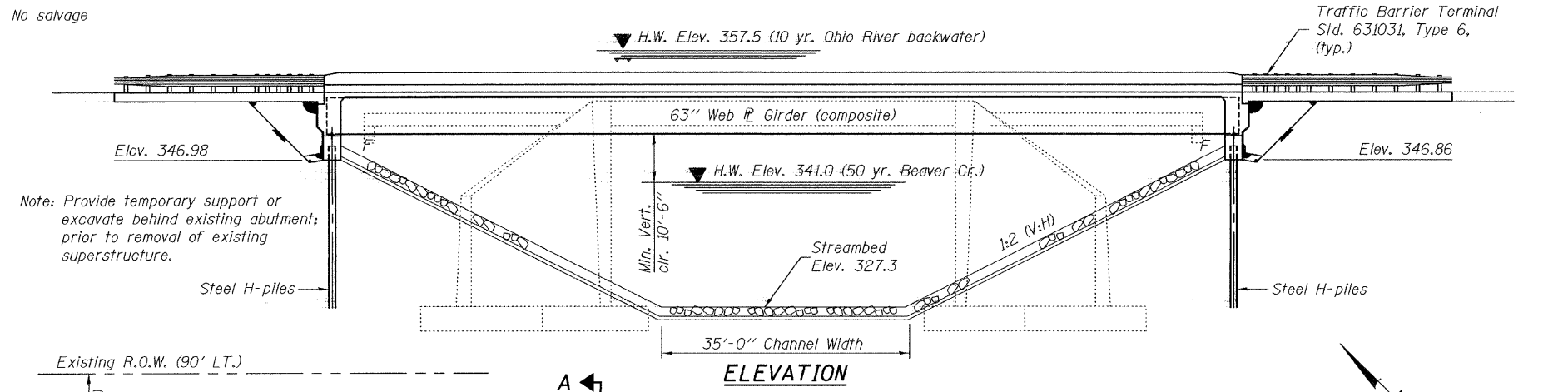
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	SHEET NO.
FAP 782	114B-2	GALLATIN	62	19	18 SHEETS
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT-			

Contract No. 98887

Existing Structure: S.N. 030-0008 Built in 1933 as S.B.I. Route 140, Section 114-A at Station 803+60 as a reinforced concrete T-beam bridge, 52'-6" Bk. to Bk. closed abutments supported on untreated timber piles. Bridge widening in 1980 with PPC deck beams (exterior), and bituminous wearing surface. Existing bridge to be removed and replaced. Traffic maintained utilizing temporary runaround bridge.

No salvage

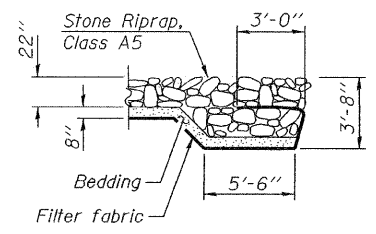


STATION 803+60.00  
BUILT 20 BY  
STATE OF ILLINOIS  
F.A.P. RTE. 782 SEC. 114B-2  
LOADING HL93  
STRUCTURE NO. 030-0024

NAME PLATE  
See Std. 515001

INDEX OF SHEETS

- 1 General Plan & Elevation
- 2 General Data
- 3-5 Top of Slab Elevations
- 6 Top of North Approach Pavement Elevations
- 7 Top of South Approach Pavement Elevations
- 8 Superstructure
- 9 Superstructure Details
- 10 Diaphragm Details
- 11 Structural Steel
- 12 Bearing Details
- 13 North Abutment
- 14 South Abutment
- 15 Bar Splicer Assembly Details
- 16 Steel H Pile Details
- 17-18 Boring Logs



SECTION A-A

LOADING HL 93  
Allow 50#/sq. ft. for future wearing surface.

DESIGN SPECIFICATIONS  
2007 LRFD Bridge Design Specifications,  
4th. Edition

DESIGN STRESSES

- $f'_c = 3,500$  psi
- $f_y = 60,000$  psi (reinforcement)
- $f_y = 50,000$  psi (structural steel) (M 270, Grade 50)
- $f_y = 36,000$  psi (structural steel) (M 270, Grade 36)

SEISMIC DATA

Seismic Performance Zone (SPZ) = 2  
Bedrock Acceleration Coefficient (A) = 17%g  
Site Coefficient (S) = 1.0

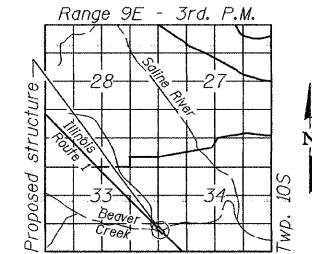
Design Scour Elevation (feet)	N. Abutment	S. Abutment
	346.9	346.8

WATERWAY INFORMATION

Exist. Low Grade Elev. 357.32 @ Sta. 804+00  
Prop. Low Grade Elev. 357.95 @ Sta. 804+50

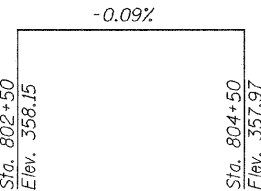
Freq. Yr.	Q C.F.S.	Opening Sq. Ft.		Nat. H.W.E.		Head - Ft.		Headwater El.	
		Exist.	Prop.	Exist.	Prop.	Exist.	Prop.	Exist.	Prop.
10±	2970	1168.6	1999.1	357.5	0.1	0.1	357.6	357.6	357.6
50	4480	1168.6	1999.1	357.5	0.2	0.1	357.7	357.6	357.6
100	5140	1168.6	1999.1	357.5	0.3	0.1	357.8	357.6	357.6
500	6690	1168.6	1999.1	357.5	0.5	0.2	358.0	357.7	357.7

10-Yr. Velocity thru Exist. Bridge = 2.5 fps; 10-Yr. Velocity thru Prop. Bridge = 1.5 fps  
Note: 10 year Ohio River backwater used in table.



LOCATION SKETCH

GENERAL PLAN & ELEVATION  
ILLINOIS ROUTE 1 OVER  
BEAVER CREEK  
F.A.P. ROUTE 782 - SECTION 114B-2  
GALLATIN COUNTY  
STATION 803+60.00  
STRUCTURE NO. 030-0024



PROFILE GRADE  
(along C.Roadway)

DESIGNED	<i>Stefan</i>
CHECKED	<i>Deung H. Leung</i>
DRAWN	<i>h.t. duong</i>
CHECKED	<i>ccc/DHC</i>

EXAMINED *James J. Anderson*  
ENGINEER OF BRIDGE DESIGN  
PASSED *Ralph E. Johnson*  
ENGINEER OF BRIDGES AND STRUCTURES



EXPIRES 11-30-2008

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	SHEET NO. 2
FAP 782	114B-2	GALLATIN	62	20	18 SHEETS
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT	Contract No. 98887		

**GENERAL NOTES**

Fasteners shall be AASHTO M164 Type 1, mechanically galvanized bolts.  
Bolts  $\frac{3}{4}$ "  $\phi$ , holes  $\frac{15}{16}$ "  $\phi$ , unless otherwise noted.  
Calculated weight of Structural Steel = 238630 lbs. AASHTO M 270 (Grade 50)  
11860 lbs. AASHTO M 270 (Grade 36)

No field welding is permitted except as specified in the contract documents.  
Reinforcement bars shall conform to the requirements of ASTM A 706 Gr 60 (IL Modified). See Special Provisions  
Reinforcement bars designated (E) shall be epoxy coated.

If the Contractor elects to use cantilever forming brackets on the exterior beams or girders, the brackets shall be placed at the same locations as required for the hardwood blocks in Article 503.06(b) of the Standard Specifications. If additional cantilever forming brackets are required, hardwood blocking shall be wedged between the exterior and first interior beam at each of these additional bracket locations.

The Inorganic Zinc Rich Primer/Acrylic/Acrylic Paint System shall be used for shop and field painting of new structural steel except where otherwise noted. The color of the final finish coat for all interior steel surfaces shall be gray, Munsell No. 5B 7/1. The color of the final finish coat for the exterior and bottom flange of the fascia beams shall be Interstate Green, Munsell No. 7.5G 4/8. See Special Provision for "Cleaning and Painting New Metal Structures".

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

The Contractor shall drive test piles to 110% of the nominal required bearing specified in production locations at substructures specified or approved by the Engineer before ordering the remainder of piles.

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

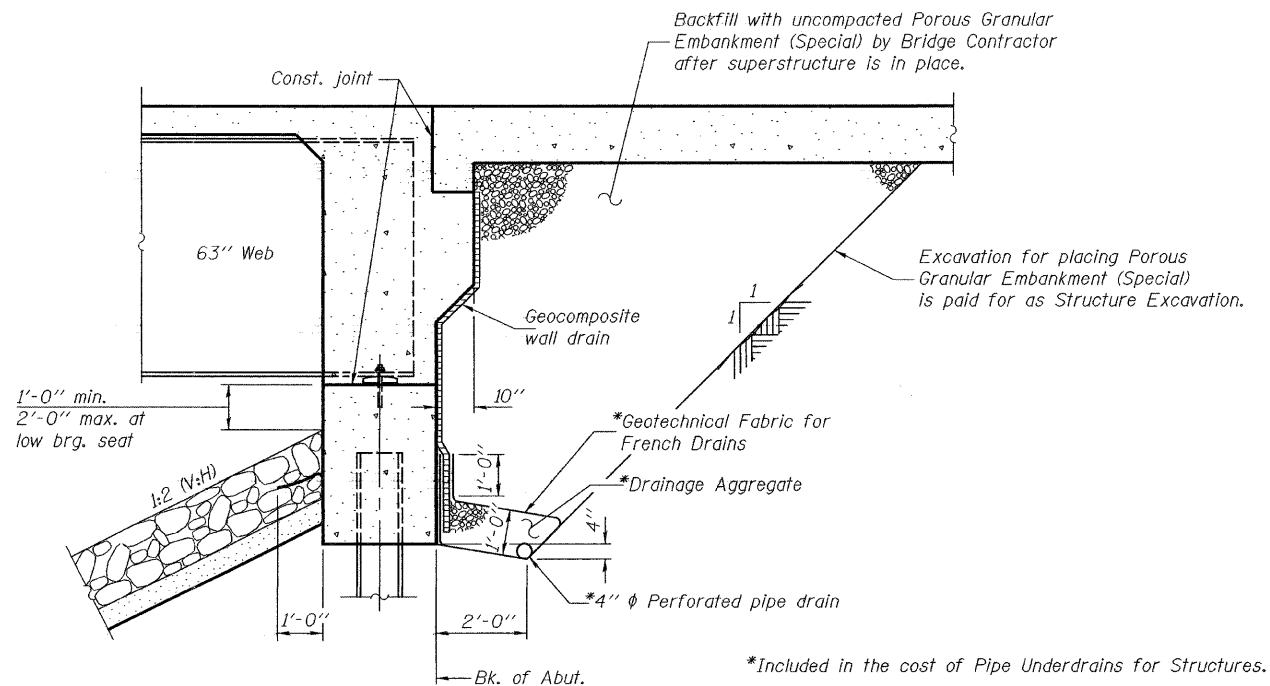
Slipforming of the parapets will not be allowed.

The Contractor is advised that the existing PPC Deck beams are in a deteriorated condition with reduced load carrying capacity. It is the Contractor's responsibility to account for the condition of the beams when developing construction procedures for removal of the superstructure.

If the Contractor's procedures for existing beam removal involves placement of heavy equipment on the existing deck beams, a detailed procedure shall be submitted to the Engineer for approval. The procedure shall include calculations, sealed by an Illinois Licensed Structural Engineer, verifying the structural adequacy of the beams for the proposed loads. Cost included with Removal of Existing Structures.

**TOTAL BILL OF MATERIAL**

ITEM	UNIT	SUPER	SUB	TOTAL
Porous Granular Embankment (Special)	Cu. Yd.		258	258
Stone Riprap, Class A5	Sq. Yd.		2196	2196
Filter Fabric	Sq. Yd.		2196	2196
Removal of Existing Structures	Each		1	1
Structure Excavation	Cu. Yd.		240	240
Floor Drains	Each	14		14
Concrete Structures	Cu. Yd.		44.4	44.4
Concrete Superstructure	Cu. Yd.	187.6		187.6
Bridge Deck Grooving	Sq. Yd.	440		440
Concrete Encasement	Cu. Yd.		4.2	4.2
Protective Coat	Sq. Yd.	580		580
Furnishing and Erecting Structural Steel	L. Sum	1		1
Stud Shear Connectors	Each	1350		1350
Reinforcement Bars, Epoxy Coated	Pound	37020	7420	44440
Bar Splicers	Each	64		64
Furnishing Steel Piles HP12x74	Foot		674	674
Driving Piles	Foot		674	674
Test Pile Steel HP12x74	Each		1	1
Name Plates	Each	1		1
Anchor Bolts, 1"	Each		24	24
Pipe Underdrains for Structures 4"	Foot		168	168
Geocomposite Wall Drain	Sq. Yd.		108	108



**SECTION THRU INTEGRAL ABUTMENT**

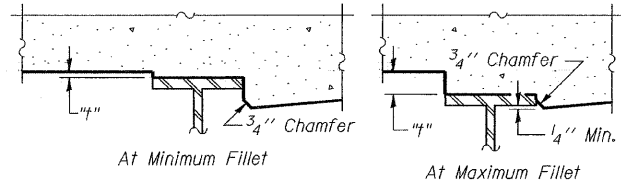
Note: All drainage system components shall extend to 2'-0" from the end of each wingwall except an outlet pipe shall extend until intersecting with each side slopes. The pipes shall drain into concrete headwalls (See Art. 601.05 of the Standard Specifications and Highway Standards 601101).

DESIGNED	C.C. Chau
CHECKED	D.H. Coultas
DRAWN	h.f. duong
CHECKED	CCC/DHC

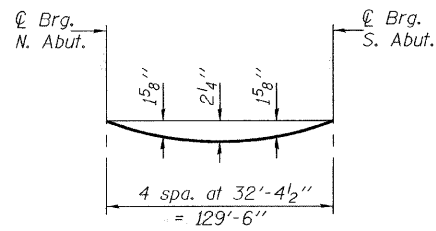
July 21, 2008  
EXAMINED *Thomas J. Demagala*  
PASSED *Ralph E. Anderson*  
ENGINEER OF BRIDGES AND STRUCTURES

**GENERAL DATA**  
F.A.P. RTE. 782 - SECTION 114B-2  
GALLATIN COUNTY  
STATION 803+60.00  
STRUCTURE NO. 030-0024

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION



ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	SHEET NO. 3
FAP 782	I14B-2	GALLATIN	62	21	18 SHEETS
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT	Contract No. 98887		



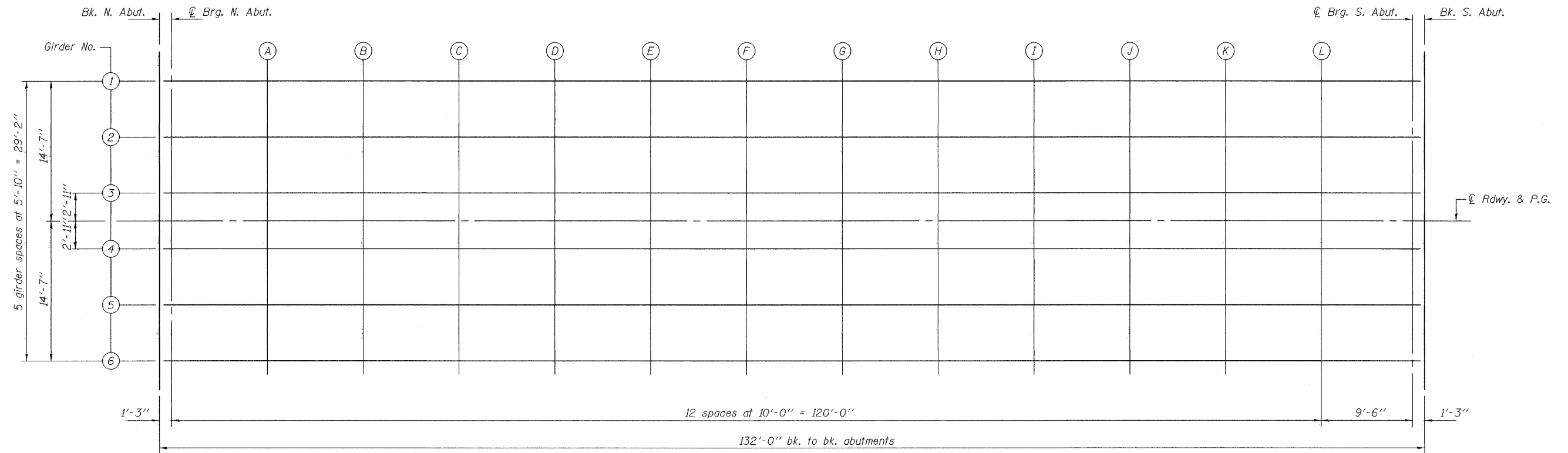
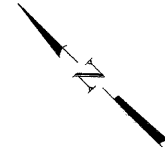
**DEAD LOAD DEFLECTION DIAGRAM**

(Includes weight of concrete only.)

Note: The above deflections are not to be used in the field if the engineer is working from the grade elevations adjusted for dead load deflections as shown on sheets 4 & 5 of 18.

To determine "t": After all structural steel has been erected, elevations of the top flanges of the beams shall be taken at intervals shown below. These elevations subtracted from the "Theoretical Grade Elevations Adjusted for Dead Load Deflection" shown on sheets 4 & 5 of 18, minus slab thickness, equals the fillet heights "t" above top flange of girders.

**FILLET HEIGHTS**



**PLAN**

DESIGNED	C.C. Chau
CHECKED	D.H. Coultas
DRAWN	h.t. duong
CHECKED	CCC/DHC

July 21, 2008  
 EXAMINED *Thomas J. Damgalak*  
 ENGINEER OF BRIDGE DESIGN  
 PASSED *Ralph E. Anderson*  
 ENGINEER OF BRIDGES AND STRUCTURES

**TOP OF SLAB ELEVATIONS**  
**F.A.P. RTE. 782 - SECTION I14B-2**  
**GALLATIN COUNTY**  
**STATION 803+60.00**  
**STRUCTURE NO. 030-0024**

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	SHEET NO. 4 18 SHEETS
FAP 782	114B-2	GALLATIN	62	22	
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT			

Contract No. 98887

**GIRDER 1**

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
BK. N. ABUT.	80294.00	-14.58	357.87	357.87
CL. BRG. N. ABUT.	80295.25	-14.58	357.87	357.87
A	80305.25	-14.58	357.86	357.90
B	80315.25	-14.58	357.85	357.93
C	80325.25	-14.58	357.84	357.97
D	80335.25	-14.58	357.83	357.98
E	80345.25	-14.58	357.82	357.99
F	80355.25	-14.58	357.81	357.99
G	80365.25	-14.58	357.80	357.98
H	80375.25	-14.58	357.80	357.96
I	80385.25	-14.58	357.79	357.93
J	80395.25	-14.58	357.78	357.90
K	80405.25	-14.58	357.77	357.85
L	80415.25	-14.58	357.76	357.80
CL. BRG. S. ABUT.	80424.75	-14.58	357.75	357.75
BK. S. ABUT.	80426.00	-14.58	357.75	357.75

**GIRDER 2**

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
BK. N. ABUT.	80294.00	-8.75	357.97	357.97
CL. BRG. N. ABUT.	80295.25	-8.75	357.97	357.97
A	80305.25	-8.75	357.96	358.00
B	80315.25	-8.75	357.95	358.04
C	80325.25	-8.75	357.95	358.07
D	80335.25	-8.75	357.94	358.08
E	80345.25	-8.75	357.93	358.09
F	80355.25	-8.75	357.92	358.10
G	80365.25	-8.75	357.91	358.09
H	80375.25	-8.75	357.90	358.06
I	80385.25	-8.75	357.89	358.04
J	80395.25	-8.75	357.88	358.01
K	80405.25	-8.75	357.87	357.95
L	80415.25	-8.75	357.86	357.90
CL. BRG. S. ABUT.	80424.75	-8.75	357.86	357.86
BK. S. ABUT.	80426.00	-8.75	357.85	357.85

**GIRDER 3**

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
BK. N. ABUT.	80294.00	-2.92	358.06	358.06
CL. BRG. N. ABUT.	80295.25	-2.92	358.06	358.06
A	80305.25	-2.92	358.05	358.10
B	80315.25	-2.92	358.05	358.13
C	80325.25	-2.92	358.04	358.16
D	80335.25	-2.92	358.03	358.17
E	80345.25	-2.92	358.02	358.18
F	80355.25	-2.92	358.01	358.19
G	80365.25	-2.92	358.00	358.18
H	80375.25	-2.92	357.99	358.15
I	80385.25	-2.92	357.98	358.13
J	80395.25	-2.92	357.97	358.10
K	80405.25	-2.92	357.96	358.05
L	80415.25	-2.92	357.96	357.99
CL. BRG. S. ABUT.	80424.75	-2.92	357.95	357.95
BK. S. ABUT.	80426.00	-2.92	357.95	357.95

**ROADWAY & PROFILE GRADE**

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
BK. N. ABUT.	80294.00	0.00	358.11	358.11
CL. BRG. N. ABUT.	80295.25	0.00	358.11	358.11
A	80305.25	0.00	358.10	358.14
B	80315.25	0.00	358.09	358.17
C	80325.25	0.00	358.08	358.21
D	80335.25	0.00	358.07	358.22
E	80345.25	0.00	358.06	358.23
F	80355.25	0.00	358.05	358.24
G	80365.25	0.00	358.05	358.23
H	80375.25	0.00	358.04	358.20
I	80385.25	0.00	358.03	358.17
J	80395.25	0.00	358.02	358.14
K	80405.25	0.00	358.01	358.09
L	80415.25	0.00	358.00	358.04
CL. BRG. S. ABUT.	80424.75	0.00	357.99	357.99
BK. S. ABUT.	80426.00	0.00	357.99	357.99

DESIGNED	C.C. Chau
CHECKED	D.H. Coultas
DRAWN	h.f. duong
CHECKED	CCC/DHC

July 21, 2008  
 EXAMINED *Thomas J. Domagala*  
 ENGINEER OF BRIDGE DESIGN  
 PASSED *Ralph E. Anderson*  
 ENGINEER OF BRIDGES AND STRUCTURES

**TOP OF SLAB ELEVATIONS**  
**F.A.P. RTE. 782 - SECTION 114B-2**  
**GALLATIN COUNTY**  
**STATION 803+60.00**  
**STRUCTURE NO. 030-0024**

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	SHEET NO. 5 18 SHEETS
FAP 782	114B-2	GALLATIN	62	23	
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT			

Contract No. 98887

GIRDER 4

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
BK. N. ABUT.	80294.00	2.92	358.06	358.06
CL. BRG. N. ABUT.	80295.25	2.92	358.06	358.06
A	80305.25	2.92	358.05	358.10
B	80315.25	2.92	358.05	358.13
C	80325.25	2.92	358.04	358.16
D	80335.25	2.92	358.03	358.17
E	80345.25	2.92	358.02	358.18
F	80355.25	2.92	358.01	358.19
G	80365.25	2.92	358.00	358.18
H	80375.25	2.92	357.99	358.15
I	80385.25	2.92	357.98	358.13
J	80395.25	2.92	357.97	358.10
K	80405.25	2.92	357.96	358.05
L	80415.25	2.92	357.96	357.99
CL. BRG. S. ABUT.	80424.75	2.92	357.95	357.95
BK. S. ABUT.	80426.00	2.92	357.95	357.95

GIRDER 5

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
BK. N. ABUT.	80294.00	8.75	357.97	357.97
CL. BRG. N. ABUT.	80295.25	8.75	357.97	357.97
A	80305.25	8.75	357.96	358.00
B	80315.25	8.75	357.95	358.04
C	80325.25	8.75	357.95	358.07
D	80335.25	8.75	357.94	358.08
E	80345.25	8.75	357.93	358.09
F	80355.25	8.75	357.92	358.10
G	80365.25	8.75	357.91	358.09
H	80375.25	8.75	357.90	358.06
I	80385.25	8.75	357.89	358.04
J	80395.25	8.75	357.88	358.01
K	80405.25	8.75	357.87	357.95
L	80415.25	8.75	357.86	357.90
CL. BRG. S. ABUT.	80424.75	8.75	357.86	357.86
BK. S. ABUT.	80426.00	8.75	357.85	357.85

GIRDER 6

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
BK. N. ABUT.	80294.00	14.58	357.87	357.87
CL. BRG. N. ABUT.	80295.25	14.58	357.87	357.87
A	80305.25	14.58	357.86	357.90
B	80315.25	14.58	357.85	357.93
C	80325.25	14.58	357.84	357.97
D	80335.25	14.58	357.83	357.98
E	80345.25	14.58	357.82	357.99
F	80355.25	14.58	357.81	357.99
G	80365.25	14.58	357.80	357.98
H	80375.25	14.58	357.80	357.96
I	80385.25	14.58	357.79	357.93
J	80395.25	14.58	357.78	357.90
K	80405.25	14.58	357.77	357.85
L	80415.25	14.58	357.76	357.80
CL. BRG. S. ABUT.	80424.75	14.58	357.75	357.75
BK. S. ABUT.	80426.00	14.58	357.75	357.75

DESIGNED	C.C. Chau
CHECKED	D.H. Coultas
DRAWN	h.t. duong
CHECKED	CCC/DHC

July 21, 2008  
 EXAMINED *Thomas J. Domagala*  
 ENGINEER OF BRIDGE DESIGN  
 PASSED *Ralph E. Anderson*  
 ENGINEER OF BRIDGES AND STRUCTURES

TOP OF SLAB ELEVATIONS  
F.A.P. RTE. 782 - SECTION 114B-2  
GALLATIN COUNTY  
STATION 803+60.00  
STRUCTURE NO. 030-0024

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAP 782	114B-2	GALLATIN	62	2A
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT-		

SHEET NO. 6

18 SHEETS

Contract No. 98887

EAST CURB LINE

Location	Station	Offset	Theoretical Grade Elevations
END OF N. APPROACH	80264.00	-16.00	357.87
A	80274.00	-16.00	357.86
B	80284.00	-16.00	357.85
BK. OF N. ABUT.	80294.00	-16.00	357.84

EAST EDGE OF PAVEMENT

Location	Station	Offset	Theoretical Grade Elevations
END OF N. APPROACH	80264.00	-12.00	357.95
A	80274.00	-12.00	357.94
B	80284.00	-12.00	357.93
BK. OF N. ABUT.	80294.00	-12.00	357.92

☉ ROADWAY & PROFILE GRADE

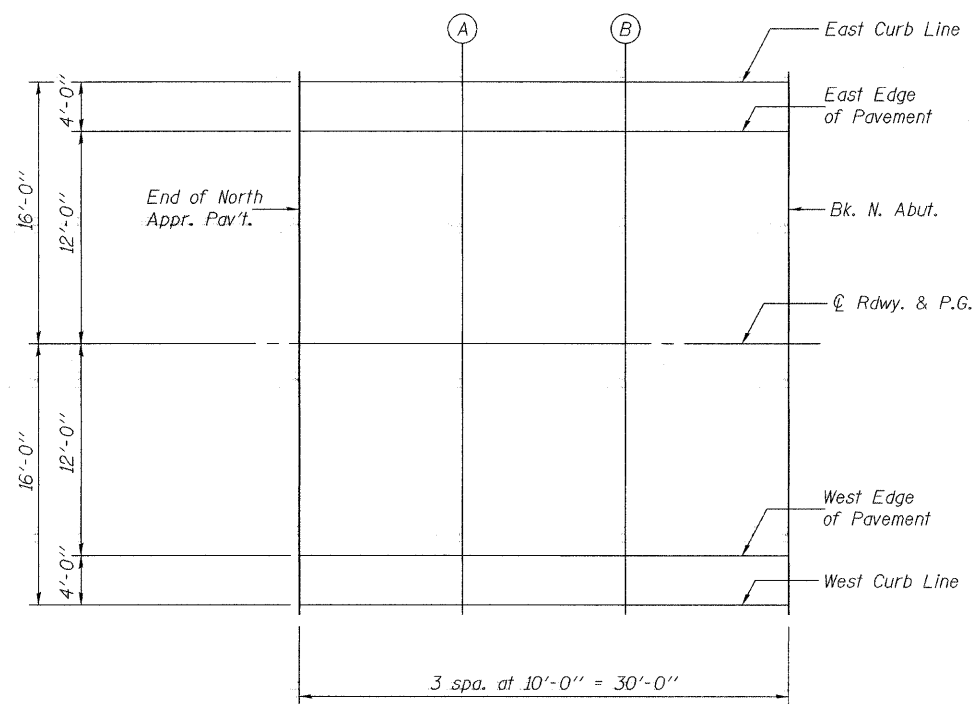
Location	Station	Offset	Theoretical Grade Elevations
END OF N. APPROACH	80264.00	0.00	358.14
A	80274.00	0.00	358.13
B	80284.00	0.00	358.12
BK. OF N. ABUT.	80294.00	0.00	358.11

WEST EDGE OF PAVEMENT

Location	Station	Offset	Theoretical Grade Elevations
END OF N. APPROACH	80264.00	12.00	357.95
A	80274.00	12.00	357.94
B	80284.00	12.00	357.93
BK. OF N. ABUT.	80294.00	12.00	357.92

WEST CURB LINE

Location	Station	Offset	Theoretical Grade Elevations
END OF N. APPROACH	80264.00	16.00	357.87
A	80274.00	16.00	357.86
B	80284.00	16.00	357.85
BK. OF N. ABUT.	80294.00	16.00	357.84



PLAN

DESIGNED	C.C. Chau
CHECKED	D.H. Coultas
DRAWN	h.f. duong
CHECKED	CCC/DHC

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

July 21, 2008

TOP OF NORTH APPROACH  
PAVEMENT ELEVATIONS  
F.A.P. RTE. 782 - SECTION 114B-2  
GALLATIN COUNTY  
STATION 803+60.00  
STRUCTURE NO. 030-0024



STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAP 782	114B-2	GALLATIN	62	25
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT-		

SHEET NO. 7  
18 SHEETS

Contract No. 98887

EAST CURB LINE

Location	Station	Offset	Theoretical Grade Elevations
BK. OF S. ABUT.	80426.00	-16.00	357.72
A	80436.00	-16.00	357.71
B	80446.00	-16.00	357.70
END OF S. APPROACH	80456.00	-16.00	357.69

EAST EDGE OF PAVEMENT

Location	Station	Offset	Theoretical Grade Elevations
BK. OF S. ABUT.	80426.00	-12.00	357.80
A	80436.00	-12.00	357.80
B	80446.00	-12.00	357.79
END OF S. APPROACH	80456.00	-12.00	357.78

Q ROADWAY & PROFILE GRADE

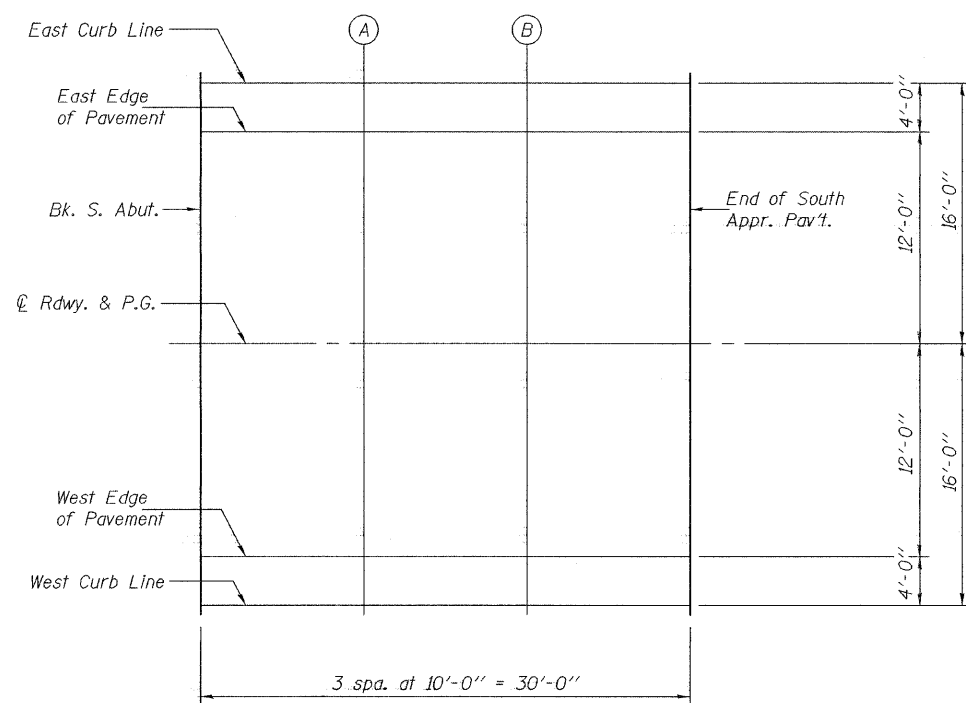
Location	Station	Offset	Theoretical Grade Elevations
BK. OF S. ABUT.	80426.00	0.00	357.99
A	80436.00	0.00	357.98
B	80446.00	0.00	357.97
END OF S. APPROACH	80456.00	0.00	357.96

WEST EDGE OF PAVEMENT

Location	Station	Offset	Theoretical Grade Elevations
BK. OF S. ABUT.	80426.00	12.00	357.80
A	80436.00	12.00	357.80
B	80446.00	12.00	357.79
END OF S. APPROACH	80456.00	12.00	357.78

WEST CURB LINE

Location	Station	Offset	Theoretical Grade Elevations
BK. OF S. ABUT.	80426.00	16.00	357.72
A	80436.00	16.00	357.71
B	80446.00	16.00	357.70
END OF S. APPROACH	80456.00	16.00	357.69



PLAN

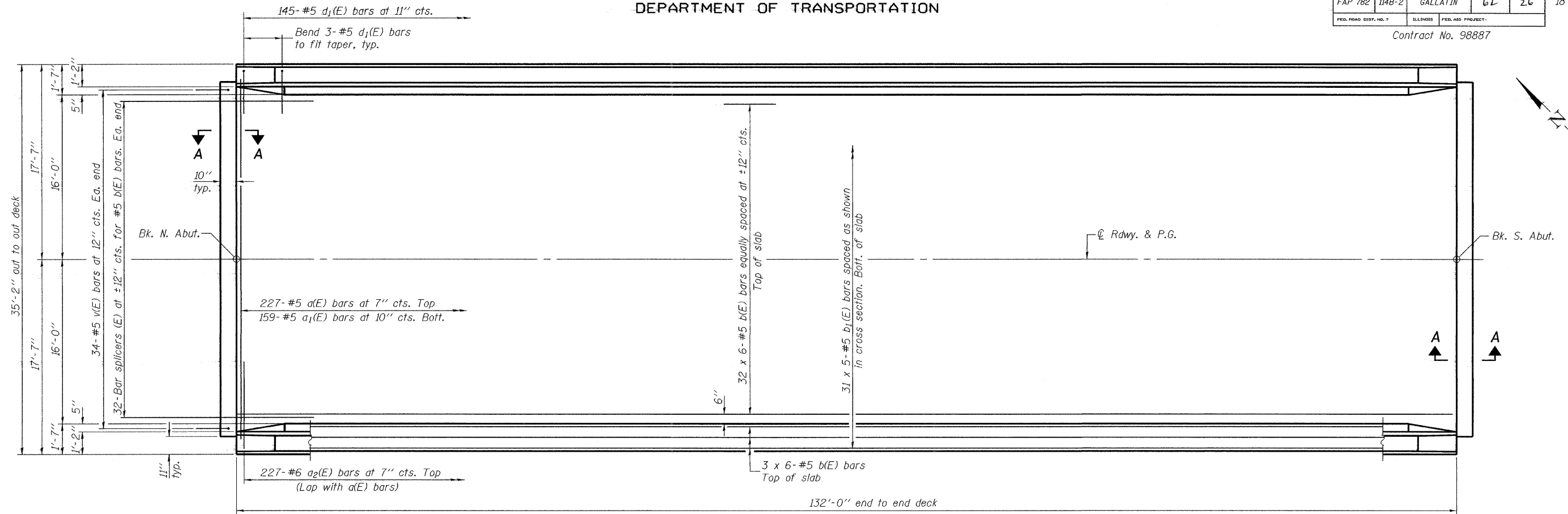
DESIGNED	C.C. Chau
CHECKED	D.H. Coultas
DRAWN	h.f. duong
CHECKED	CCC/DHC

July 21, 2008  
EXAMINED *Thomas Damagala*  
PASSED *Ralph E. Anderson*  
ENGINEER OF BRIDGE DESIGN  
ENGINEER OF BRIDGES AND STRUCTURES

TOP OF SOUTH APPROACH  
PAVEMENT ELEVATIONS  
F.A.P. RTE. 782 - SECTION 114B-2  
GALLATIN COUNTY  
STATION 803+60.00  
STRUCTURE NO. 030-0024

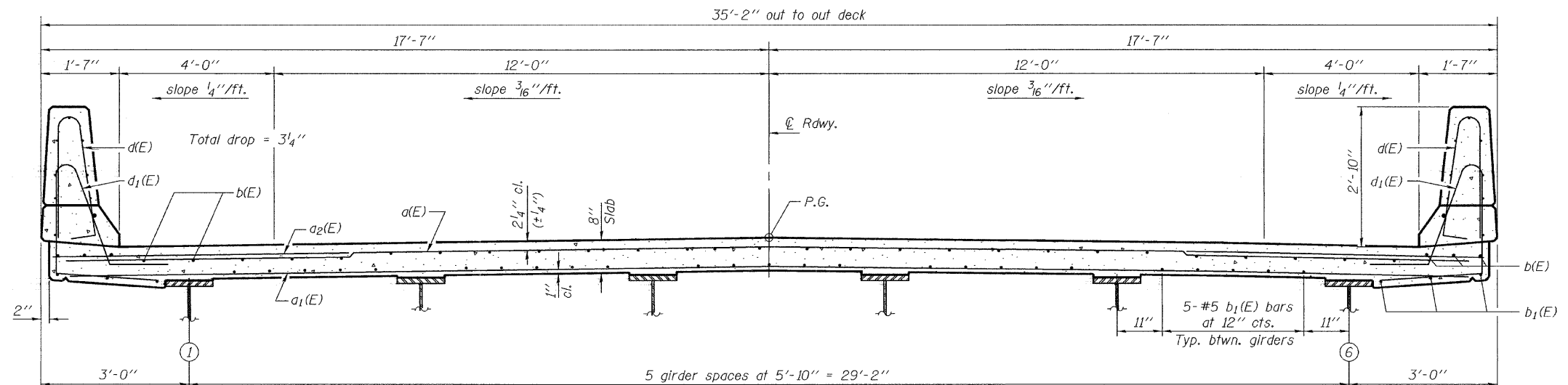
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	SHEET NO. 8
FAP 782	114B-2	GALLATIN	62	26	18 SHEETS
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT	Contract No. 98887		



PLAN

Notes: See sheet 9 of 18 for superstructure details and Bill of Material.  
Bars indicated thus 32 x 6-#5 etc. indicates 32 lines of bars with 6 lengths per line.  
See sheet 9 of 18 for parapet reinforcement.  
See sheet 10 of 18 for Section A-A.  
See sheet 15 of 18 for bar splicer details.



CROSS SECTION  
(Looking South)

MIN. BAR LAPS  
#5 bar = 1'-8"  
#6 bar = 2'-0"

DESIGNED	C.C. Chau
CHECKED	D.H. Coultas
DRAWN	h.f. duong
CHECKED	CCC/DHC

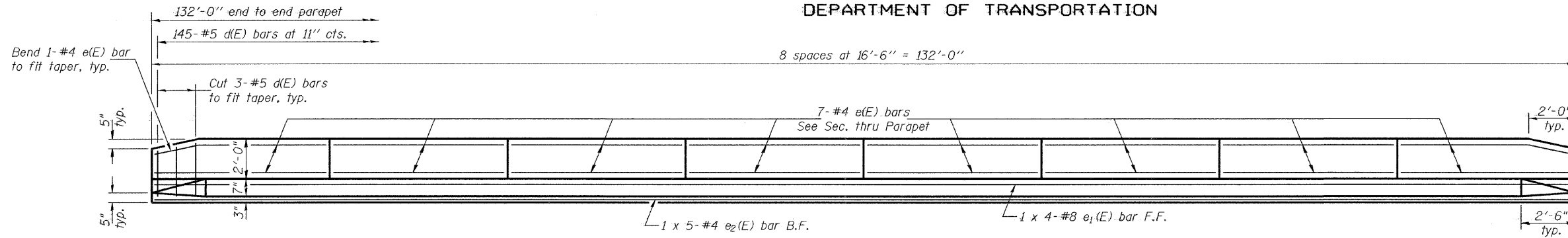
July 21, 2008  
EXAMINED *Thomas J. Domagala*  
PASSED *Ralph E. Anderson*  
ENGINEER OF BRIDGES AND STRUCTURES

SUPERSTRUCTURE  
F.A.P. RTE. 782 - SECTION 114B-2  
GALLATIN COUNTY  
STATION 803+60.00  
STRUCTURE NO. 030-0024

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	SHEET NO. 9
FAP 782	114B-2	GALLATIN	62	21	18 SHEETS
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT-			

Contract No. 98887



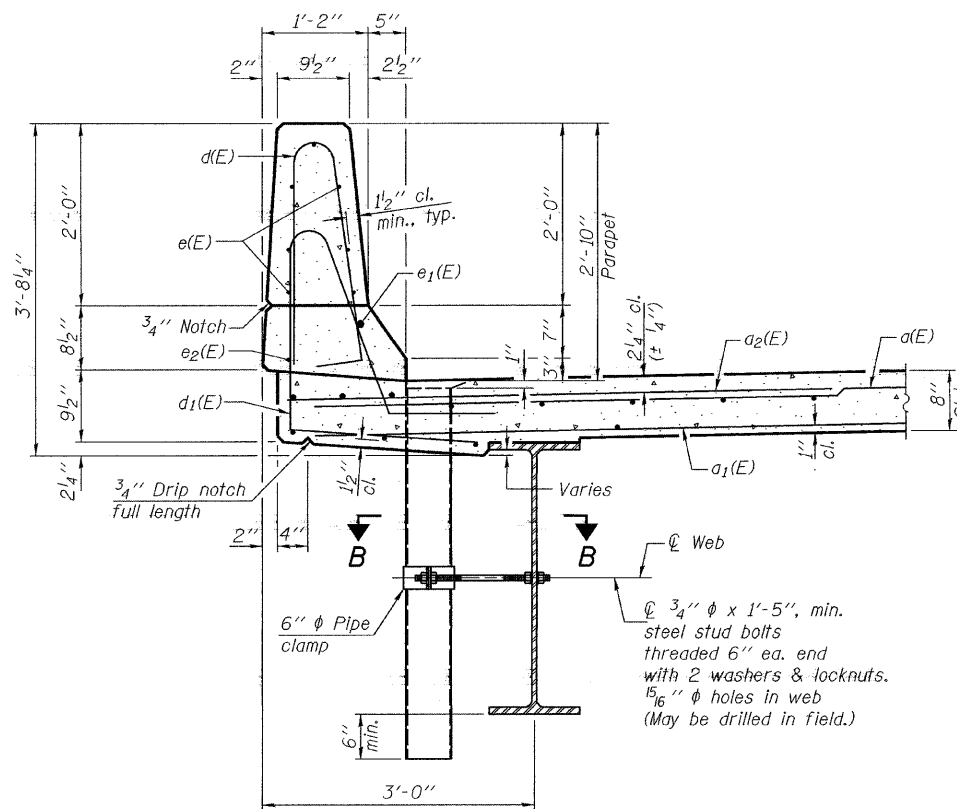
**INSIDE ELEVATION OF EAST PARAPET**  
(Looking East - West parapet similar)

**MIN. BAR LAPS**  
(Parapet)  
#4 bar = 1'-4"  
#8 bar = 3'-5"

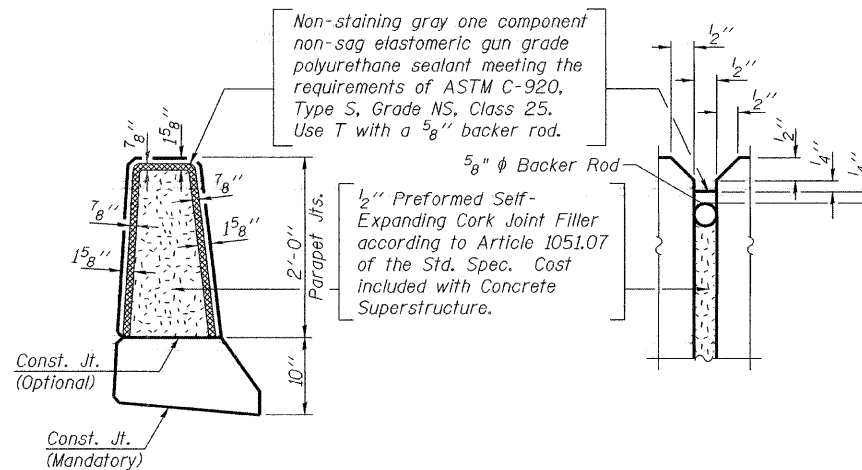
**SUPERSTRUCTURE  
BILL OF MATERIAL**

Bar	No.	Size	Length	Shape
a(E)	227	#5	34'-6"	—
a1(E)	159	#5	33'-5"	—
a2(E)	454	#6	6'-0"	—
b(E)	228	#5	23'-4"	—
b1(E)	155	#5	27'-8"	—
d(E)	290	#5	5'-7"	┌
d1(E)	290	#5	7'-6"	┌
e(E)	112	#4	16'-2"	—
e1(E)	8	#8	35'-7"	—
e2(E)	10	#4	27'-6"	—
m(E)	4	#6	33'-0"	—
m1(E)	10	#6	34'-10"	—
m2(E)	60	#6	8'-0"	—
m3(E)	10	#6	5'-8"	—
m4(E)	4	#6	2'-7"	—
s(E)	82	#5	7'-0"	┌
s1(E)	72	#4	14'-10"	┌
v(E)	68	#5	3'-4"	┌
Reinforcement Bars, Epoxy Coated			Pound	37020
Concrete Superstructure			Cu. Yds.	187.6
Floor Drains			Each	14

Bars indicated thus 1 x 5-#5 etc. indicates 1 line of bars with 5 lengths per line.

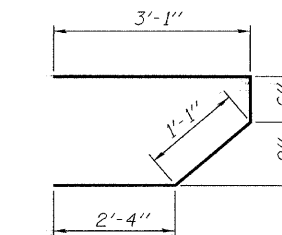


**SECTION THRU PARAPET**

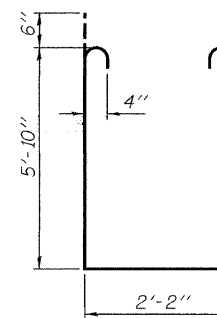


**PARAPET JOINT DETAILS**

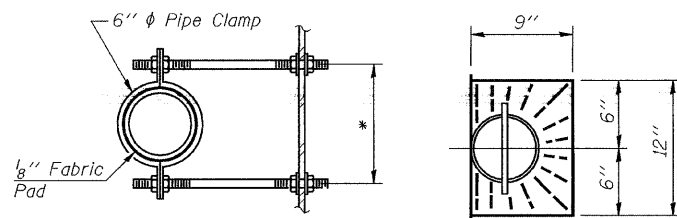
Notes:  
The exterior surfaces of the floor drains shall be painted with the finish coat as specified in the special provisions for Cleaning and Painting New Metal Structures. The exterior surfaces of the drains shall be cleaned according to Steel Structures Painting Council's Spec. SSPC-SP1 prior to painting. Fiberglass pipe shall conform to ASTM D 2996, with short-time rupture strength hoop tensile stress of 30,000 p.s.i. minimum. Drains shall be located clear of diaphragms.



**BAR s(E)**



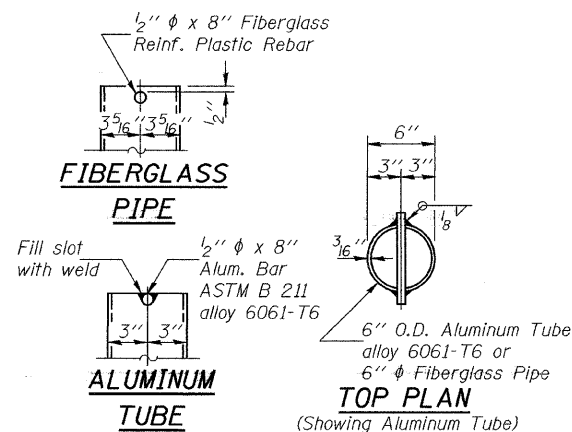
**BAR s1(E)**



**SECTION B-B**

**TOP PLAN**

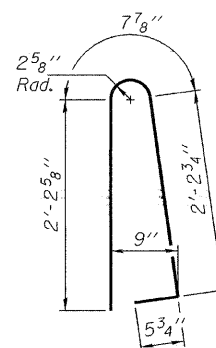
\*Dimension as required by Pipe Clamp



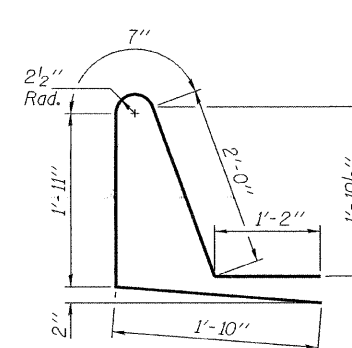
**FIBERGLASS  
PIPE**

**ALUMINUM  
TUBE**

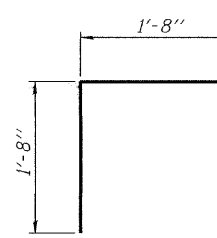
**TOP PLAN**  
(Showing Aluminum Tube)



**BAR d(E)**



**BAR d1(E)**



**BAR v(E)**

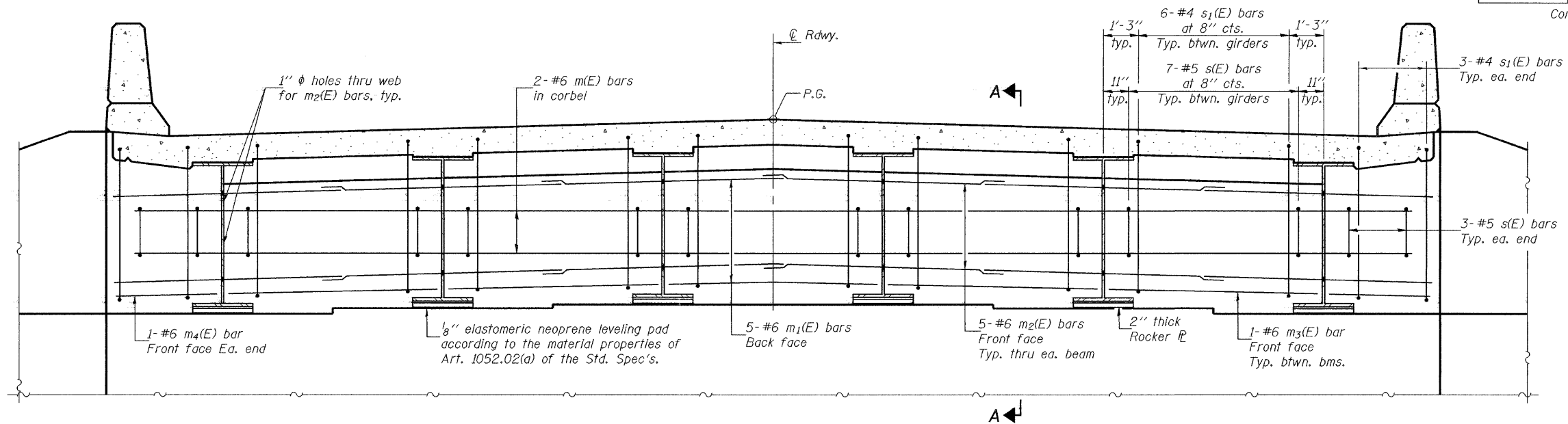
DESIGNED	C.C. Chau
CHECKED	D.H. Coultas
DRAWN	h.t. duong
CHECKED	CCC/DHC

July 21, 2008  
EXAMINED *Thomas J. Damagala*  
PASSED *Ralph E. Anderson*  
ENGINEER OF BRIDGES AND STRUCTURES

**SUPERSTRUCTURE DETAILS**  
F.A.P. RTE. 782 - SECTION 114B-2  
GALLATIN COUNTY  
STATION 803+60.00  
STRUCTURE NO. 030-0024

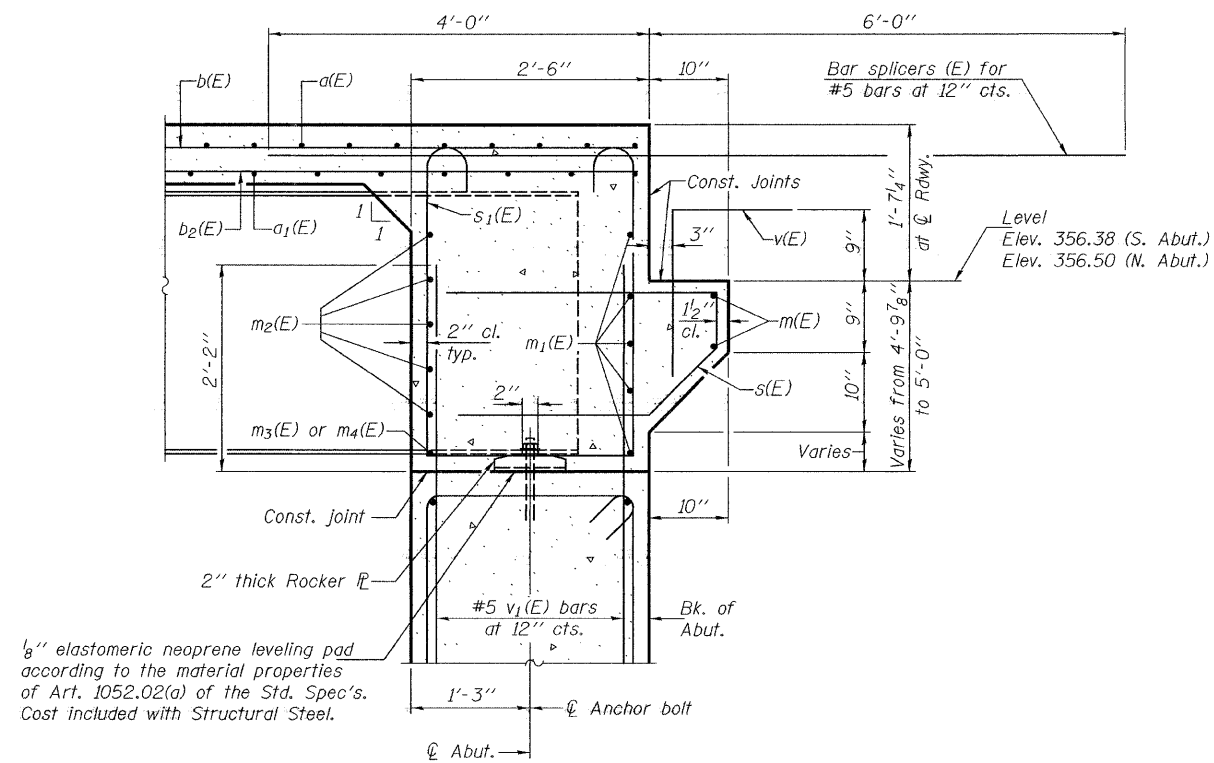
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	SHEET NO. 10
FAP 782	114B-2	GALLATIN	62	28	18 SHEETS
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT	Contract No. 98887		



**DIAPHRAGM ELEVATION AT SOUTH ABUTMENT**  
(Looking South - North abut. similar)

Notes: Reinforcement bars in diaphragm are billed with superstructure on sheet 9 of 18.  
Concrete in diaphragm is included with Concrete Superstructure on sheet 9 of 18.  
For details of bars s(E) & s<sub>1</sub>(E) see sheet 9 of 18.  
Bars indicated 2 x 2-#6 etc. indicates 2 lines of bars with 2 lengths per line.  
For bar splicer details see sheet 15 of 18.



**MIN. BAR LAP**  
#6 bar = 2'-7"

DESIGNED	C.C. Chau
CHECKED	D.H. Coultas
DRAWN	h.t. duong
CHECKED	CCC/DHC

July 21, 2008  
EXAMINED *Thomas J. Domagala*  
PASSED *Ralph E. Anderson*  
ENGINEER OF BRIDGES AND STRUCTURES

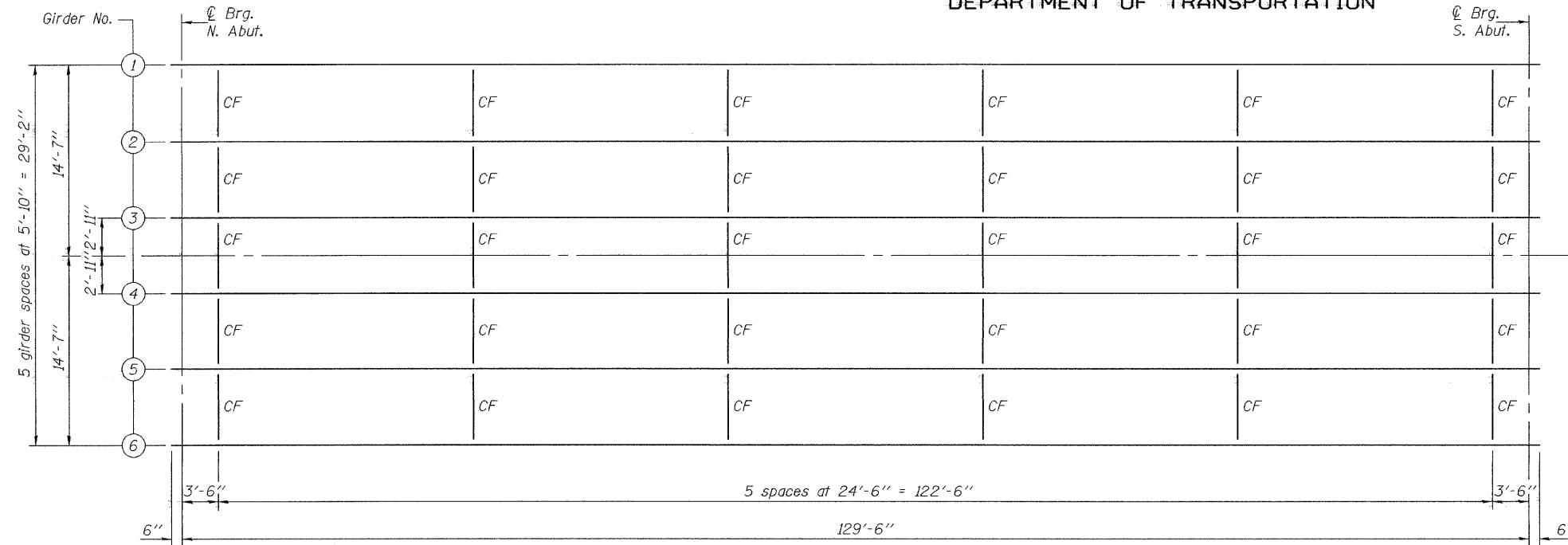
**SECTION A-A**

**DIAPHRAGM DETAILS**  
F.A.P. RTE. 782 - SECTION 114B-2  
GALLATIN COUNTY  
STATION 803+60.00  
STRUCTURE NO. 030-0024

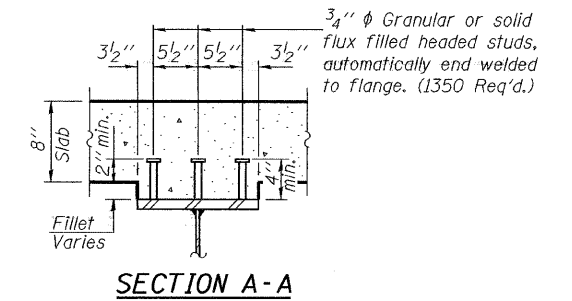
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	SHEET NO. 11 18 SHEETS
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FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT			

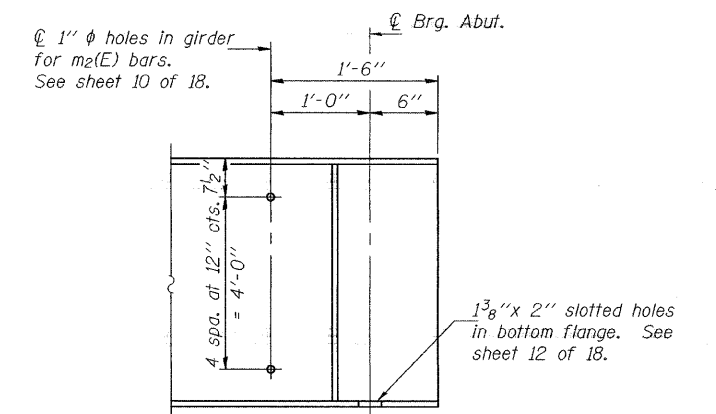
Contract No. 98887



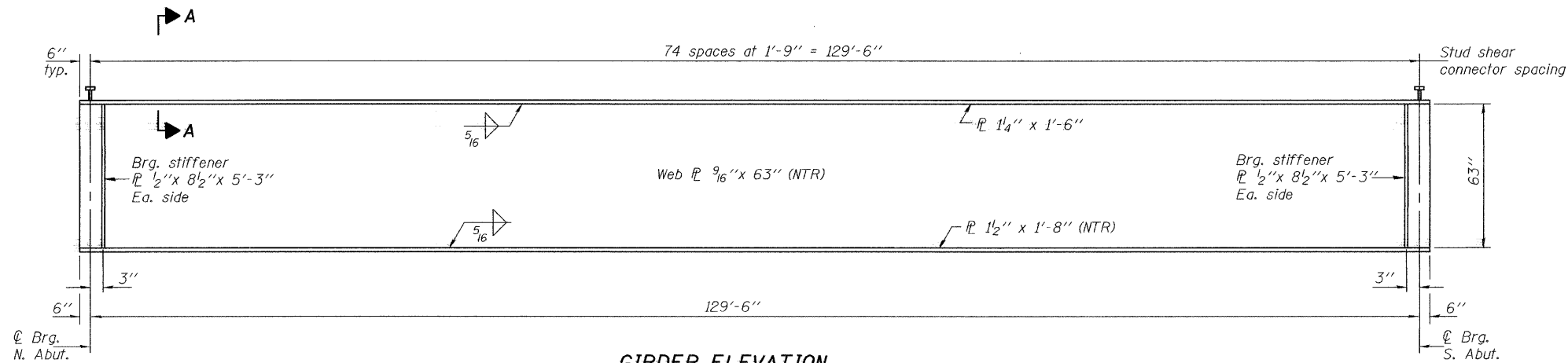
PLAN



SECTION A-A

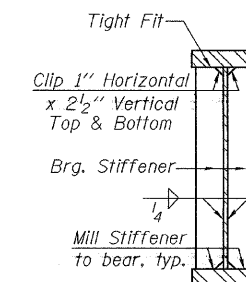


END OF GIRDER ELEVATION



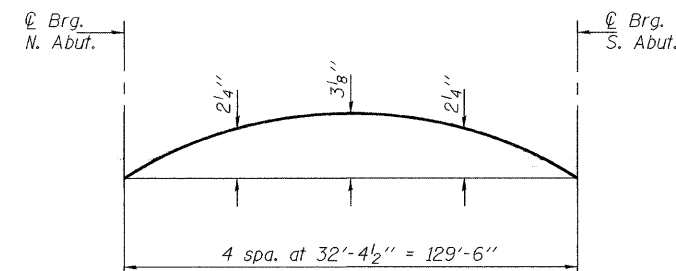
GIRDER ELEVATION

All girder structural steel shall be AASHTO M270 Grade 50.



SECTION AT ABUT.

Notes: Load carrying components designated "NTR" shall conform to the Supplemental Requirements for Notch Toughness, Zone 2. Two hardened washers shall be required for all oversized holes in diaphragms. Omit connecting plates on exterior side of exterior girder. All cross frames shall be installed as steel is erected and secured with erection pins and bolts except as otherwise noted.



CAMBER DIAGRAM

DESIGNED	C.C. Chau
CHECKED	D.H. Coultas
DRAWN	h.t. duong
CHECKED	CCC/DHC

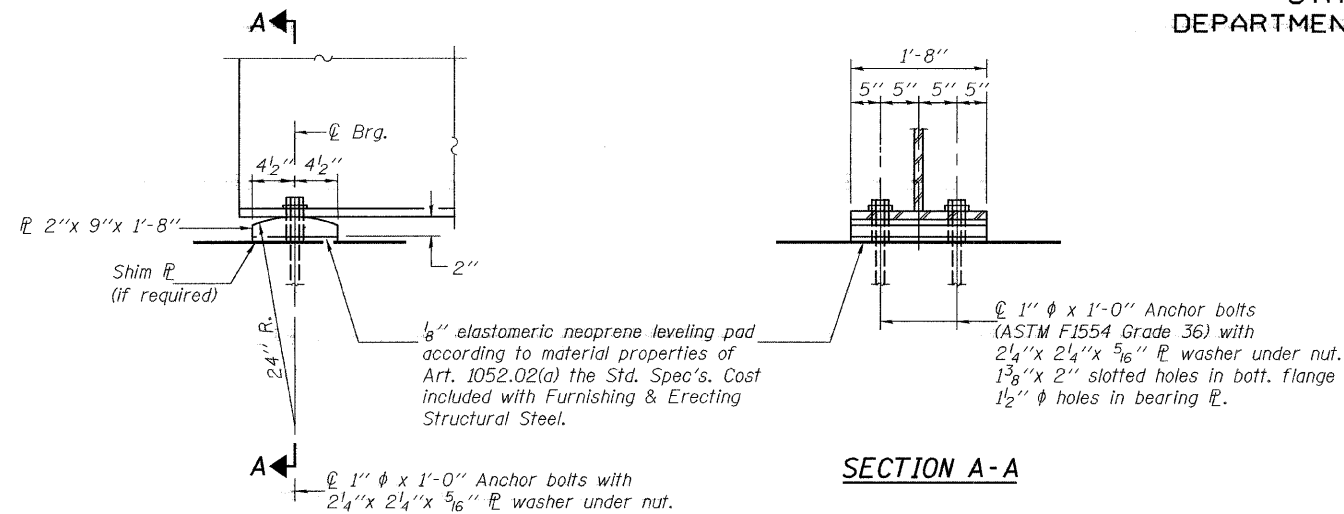
EXAMINED	Thomas J. Damagala	July 21, 2008
PASSED	Ralph E. Anderson	

STRUCTURAL STEEL  
F.A.P. RTE. 782 - SECTION I14B-2  
GALLATIN COUNTY  
STATION 803+60.00  
STRUCTURE NO. 030-0024

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	SHEET NO. 12 18 SHEETS
FAP 782	114B-2	GALLATIN	62	30	
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT			

Contract No. 98887



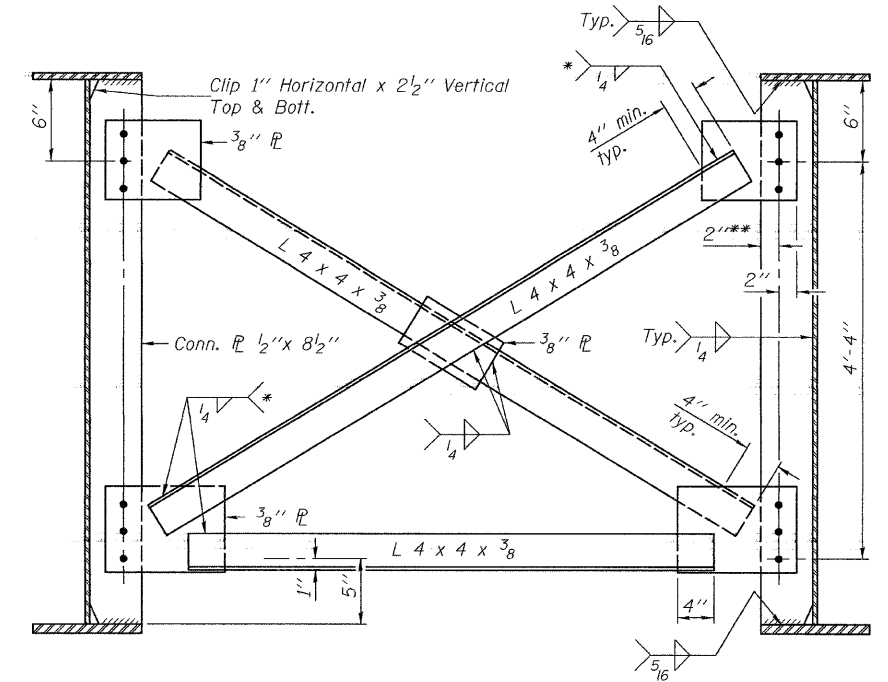
ELEVATION AT ABUTMENTS

ABUTMENT BEARING  
(12 Required)

\*TOP OF GIRDER WEB  
ELEVATIONS

Location	℄ Brg. N. Abut.	℄ Brg. S. Abut.
Girder 1	357.03	356.91
Girder 2	357.14	357.02
Girder 3	357.23	357.11
Girder 4	357.23	357.11
Girder 5	357.14	357.02
Girder 6	357.03	356.91

\*For fabrication use only.



CROSS FRAME CF  
(30 Required)

\*Fillet weld angles along 3 sides on one face of gusset plate.

Notes:

Anchor bolts shall be ASTM F1554 all-thread (or an Engineer-approved alternate material) of the grade(s) and diameter(s) specified. ASTM A307 Grade C anchor bolts may be used in lieu of ASTM F1554 Grade 36 (Fy=36ksi). The corresponding specified grade of AASHTO M314 anchor bolts may be used in lieu of ASTM F1554.

Anchor bolts at fixed bearings may be either cast in place or installed in holes drilled after the supported member is in place.

Drilled and set anchor bolts shall be installed according to Article 521.06 of the Standard Specifications.

Detail 1/6 inch diameter holes for all 3/4 inch diameter bolts.

Two hardened washers required for each set of oversized holes.

INTERIOR GIRDER MOMENT TABLE	
	0.5 Sp.
$I_s$	(in <sup>4</sup> ) 65471
$I_c(n)$	(in <sup>4</sup> ) 125480
$I_c(3n)$	(in <sup>4</sup> ) 93210
$S_s$	(in <sup>3</sup> ) 2167
$S_c(n)$	(in <sup>3</sup> ) 2663
$S_c(3n)$	(in <sup>3</sup> ) 2451
DC1	(k/ft) 0.956
M <sub>DC1</sub>	(k) 2004
DC2	(k/ft) 0.150
M <sub>DC2</sub>	(k) 314.4
DW	(k/ft) 0.292
M <sub>DW</sub>	(k) 612
M <sub>℄ + Imp</sub>	(k) 2083.60
M <sub>u</sub> (Strength I)	(k) 7462.3
$\phi_r M_n$	(k) 12643.8
$f_s$ DC1	(ksi) 11.10
$f_s$ DC2	(ksi) 1.5
$f_s$ DW	(ksi) 3.0
$f_s$ 1.3(℄+I)	(ksi) 12.2
$f_s$ (Service II)	(ksi) 27.8
$f_s$ (Total)Strength I)	(ksi) 36.7
V <sub>r</sub>	(k) 150

- $I_s, S_s$ : Non-composite moment of inertia and section modulus of the steel section used for computing  $f_s$  (Total-Strength I, and Service II) due to non-composite dead loads (in<sup>4</sup> and in<sup>3</sup>).
- $I_c(n), S_c(n)$ : Composite moment of inertia and section modulus of the steel and deck based upon the modular ratio, "n", used for computing  $f_s$  (Total-Strength I, and Service II) due to short-term composite live loads (in<sup>4</sup> and in<sup>3</sup>).
- $I_c(3n), S_c(3n)$ : Composite moment of inertia and section modulus of the steel and deck based upon 3 times the modular ratio, "3n", used for computing  $f_s$  (Total-Strength I, and Service II) due to long-term composite (superimposed) dead loads (in<sup>4</sup> and in<sup>3</sup>).
- DC1: Un-factored non-composite dead load (kips/ft.).
- M<sub>DC1</sub>: Un-factored moment due to non-composite dead load (kip-ft.).
- DC2: Un-factored long-term composite (superimposed excluding future wearing surface) dead load (kips/ft.).
- M<sub>DC2</sub>: Un-factored moment due to long-term composite (superimposed excluding future wearing surface) dead load (kip-ft.).
- DW: Un-factored long-term composite (superimposed future wearing surface only) dead load (kips/ft.).
- M<sub>DW</sub>: Un-factored moment due to long-term composite (superimposed future wearing surface only) dead load (kip-ft.).
- M<sub>℄ + Imp</sub>: Un-factored live load moment plus dynamic load allowance (impact) (kip-ft.).
- M<sub>u</sub> (Strength I): Factored design moment (kip-ft.).  
1.25 (M<sub>DC1</sub> + M<sub>DC2</sub>) + 1.5 M<sub>DW</sub> + 1.75 M<sub>℄ + Imp</sub>
- $\phi_r M_n$ : Compact composite positive moment capacity computed according to Article 6.10.7.1 (kip-ft.).
- $f_s$  (Service II): Sum of stresses as computed from the moments below (ksi).  
M<sub>DC1</sub> + M<sub>DC2</sub> + M<sub>DW</sub> + 1.3 M<sub>℄ + Imp</sub>
- $f_s$  (Total)Strength I): Sum of stresses as computed from the moments below on non-compact section (ksi).  
1.25 (M<sub>DC1</sub> + M<sub>DC2</sub>) + 1.5 M<sub>DW</sub> + 1.75 M<sub>℄ + Imp</sub>
- V<sub>r</sub>: Factored shear range computed according to Article 6.10.10.

INTERIOR GIRDER REACTION TABLE - HL93 Loading	
	Abutments
R <sub>DC1</sub>	(k) 62.8
R <sub>DC2</sub>	(k) 9.7
R <sub>DW</sub>	(k) 18.9
R <sub>℄ + Imp</sub>	(k) 85.8
R <sub>Total</sub>	(k) 177.2

DESIGNED	C.C. Chau
CHECKED	D.H. Coultas
DRAWN	h.f. duong
CHECKED	CCC/DHC

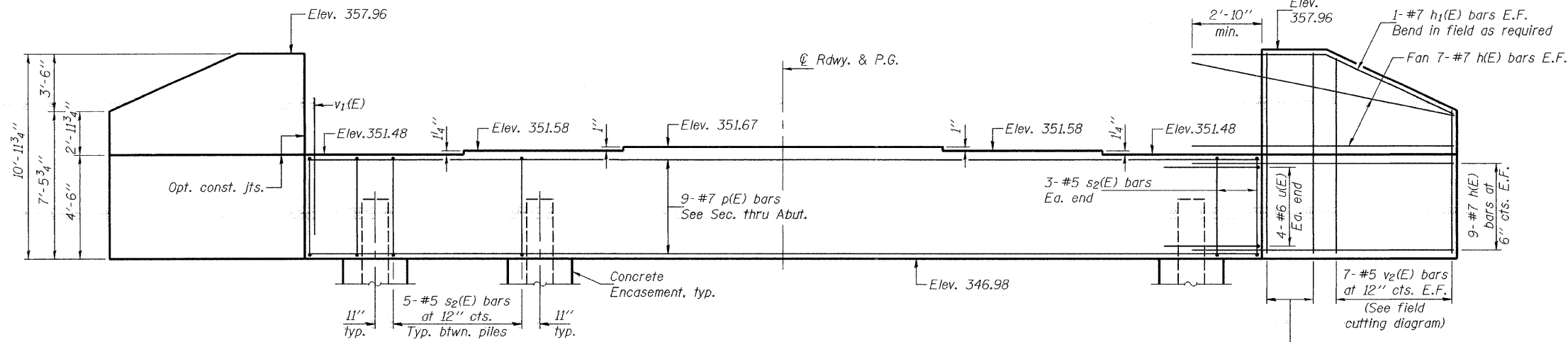
July 21, 2008  
EXAMINED *Thomas J. Demagala*  
PASSED *Ralph E. Anderson*  
ENGINEER OF BRIDGE DESIGN  
ENGINEER OF BRIDGES AND STRUCTURES

BEARING DETAILS  
F.A.P. RTE. 782 - SECTION 114B-2  
GALLATIN COUNTY  
STATION 803+60.00  
STRUCTURE NO. 030-0024

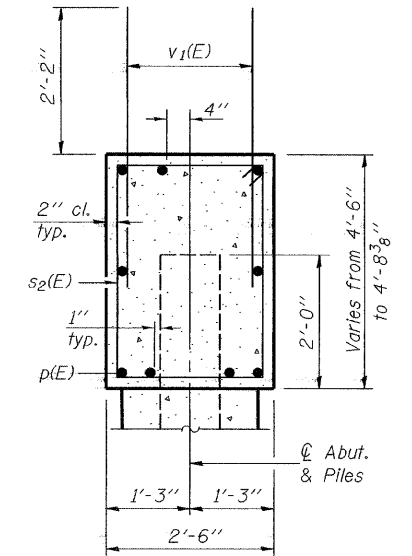
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	STATES	SHEET NO.	SHEET NO. 13 18 SHEETS
FAP 782	114B-2	GALLATIN	62	31	
FED. ROAD DIST. NO. 7		ILLINOIS	FED. AID PROJECT-		

Contract No. 98887



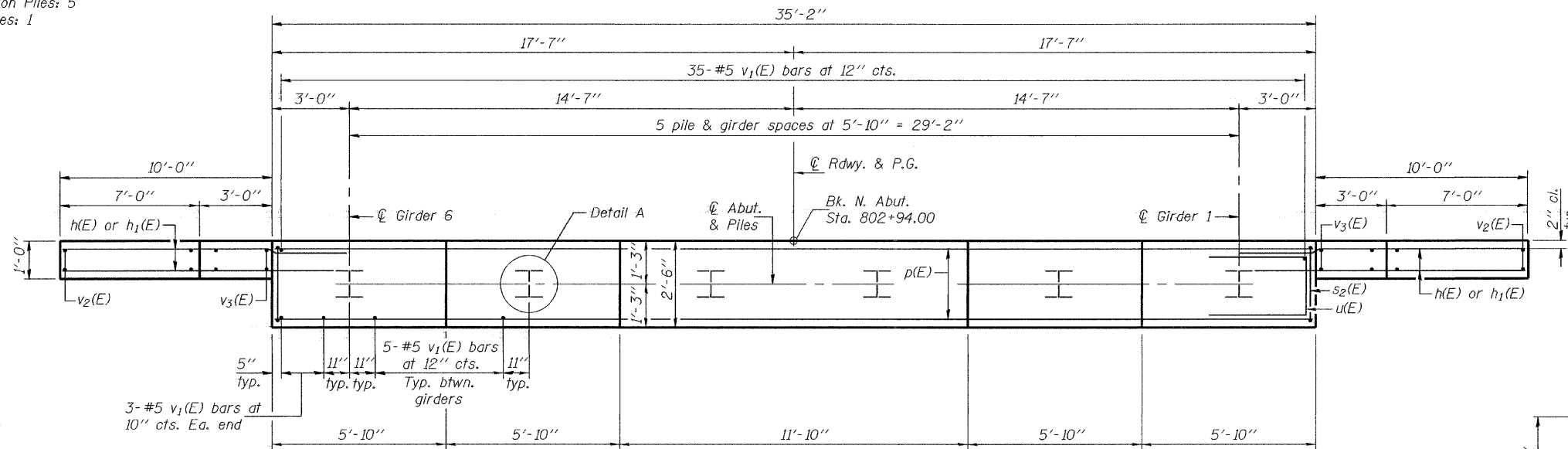
**ELEVATION**  
(Looking North)



**SEC. THRU ABUT.**

**PILE DATA**

Type: Steel HP 12x74  
Nominal Required Bearing: 589 Kips  
Factored Resistance Available: 294 Kips  
Est. Length: 64'  
No. Production Piles: 5  
No. Test Piles: 1

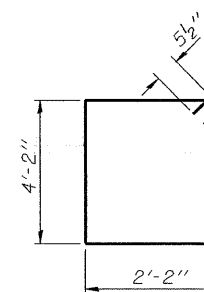


**PLAN**

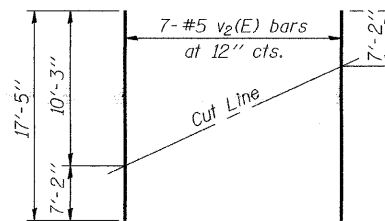
**BILL OF MATERIAL**

Bar	No.	Size	Length	Shape
h(E)	64	#7	12'-10"	—
h1(E)	4	#7	13'-6"	—
p(E)	9	#7	34'-10"	—
s2(E)	31	#5	13'-7"	□
u(E)	8	#6	9'-3"	—
v1(E)	66	#5	4'-4"	—
v2(E)	14	#5	17'-5"	—
v3(E)	16	#5	10'-7"	—
Structure Excavation		Cu. Yd.	120	
Concrete Structures		Cu. Yd.	22.2	
Reinforcement Bars, Epoxy Coated		Pound	3710	
Furnishing Steel Piles HP12x74		Foot	320	
Driving Piles		Foot	320	
Test Pile Steel HP12x74		Each	1	
Concrete Encasement		Cu. Yd.	2.1	

Notes: Pour steps monolithically with cap.  
For details of piles and concrete encasement, see sheet 16 of 18.  
Bend h(E) bars in field to miss piles and girders.

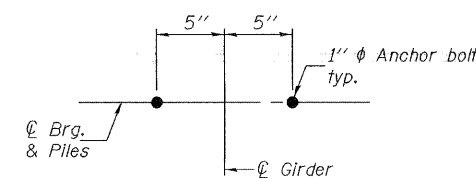


**BAR s2(E)**

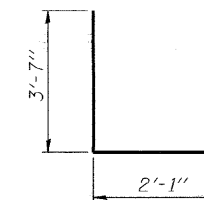


**FIELD CUTTING DIAGRAM**

Order v2(E) full length. Cut as shown and use remainder of bars in opposite face.



**DETAIL A**



**BAR u(E)**

DESIGNED	C.C. Chau
CHECKED	D.H. Coultas
DRAWN	h.f. duong
CHECKED	CCC/DHC

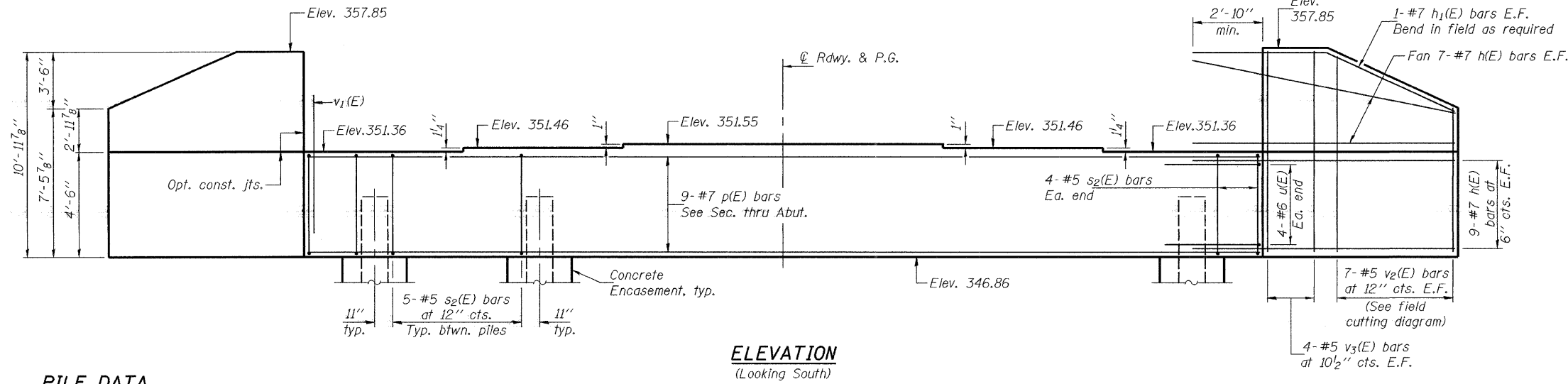
July 21, 2008  
EXAMINED *Thomas J. Damagala*  
PASSED *Ralph E. Anderson*

**NORTH ABUTMENT**  
F.A.P. RTE. 782 - SECTION 114B-2  
GALLATIN COUNTY  
STATION 803+60.00  
STRUCTURE NO. 030-0024

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	SHEET NO. 14 18 SHEETS
FAP 782	114B-2	GALLATIN	62	32	
FED. ROAD DIST. NO. 7		ILLINOIS	FED. AID PROJECT		

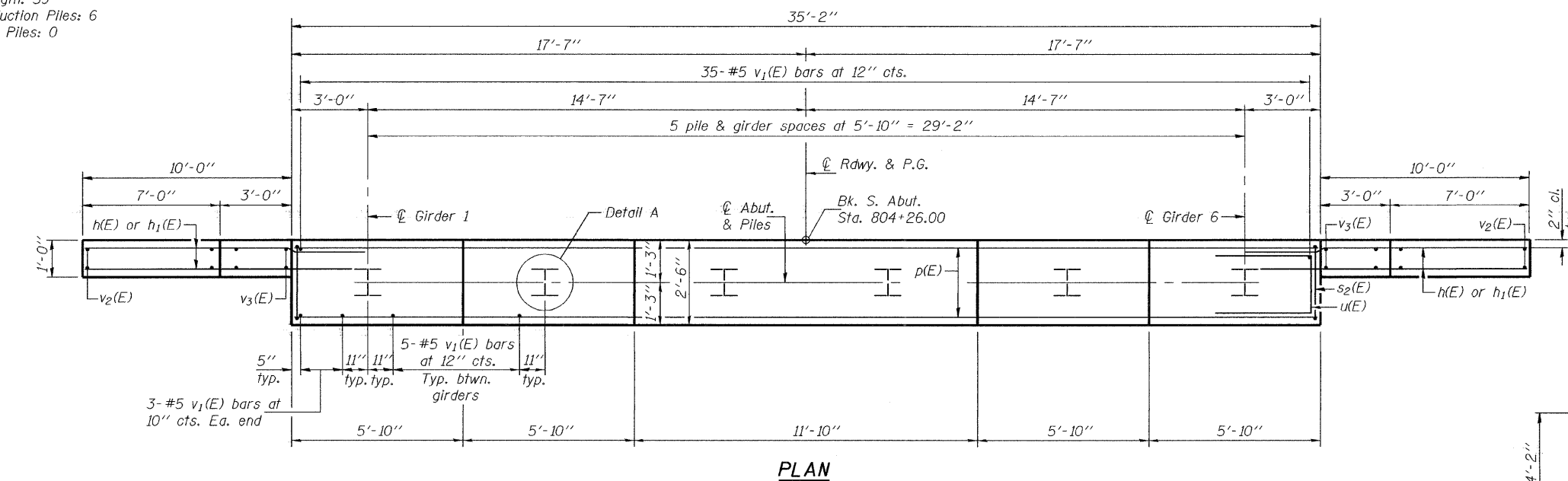
Contract No. 98887



**ELEVATION**  
(Looking South)

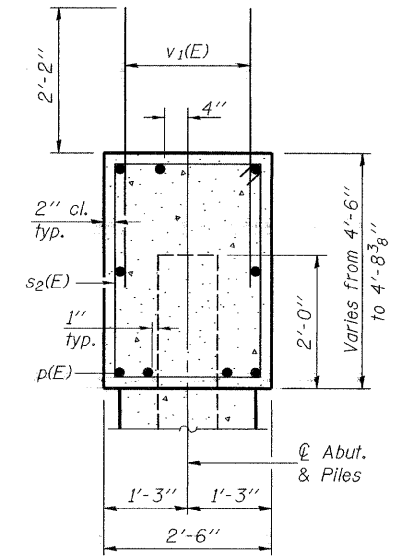
**PILE DATA**

Type: Steel HP 12x74  
Nominal Required Bearing: 589 Kips  
Factored Resistance Available: 294 Kips  
Est. Length: 59'  
No. Production Piles: 6  
No. Test Piles: 0



**PLAN**

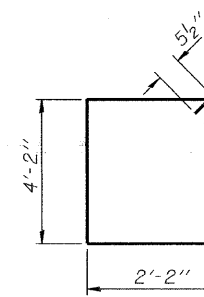
**SEC. THRU ABUT.**



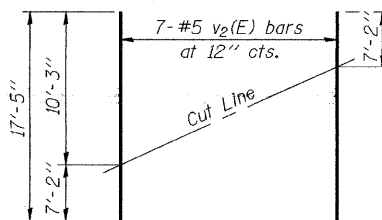
**BILL OF MATERIAL**

Bar	No.	Size	Length	Shape
h(E)	64	#7	12'-10"	—
h1(E)	4	#7	13'-6"	—
p(E)	9	#7	34'-10"	—
s2(E)	31	#5	13'-7"	□
u(E)	8	#6	9'-3"	□
v1(E)	66	#5	4'-4"	—
v2(E)	14	#5	17'-5"	—
v3(E)	16	#5	10'-7"	—
Structure Excavation		Cu. Yd.	120	
Concrete Structures		Cu. Yd.	22.2	
Reinforcement Bars, Epoxy Coated		Pound	3710	
Furnishing Steel Piles HP12x74		Foot	354	
Driving Piles		Foot	354	
Concrete Encasement		Cu. Yd.	2.1	

Notes: Pour steps monolithically with cap.  
For details of piles and concrete encasement, see sheet 16 of 18.  
Bend h(E) bars in field to miss piles and girders.

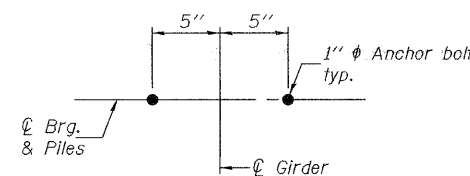


**BAR s2(E)**

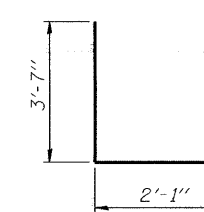


**FIELD CUTTING DIAGRAM**

Order v2(E) full length. Cut as shown and use remainder of bars in opposite face.



**DETAIL A**



**BAR u(E)**

DESIGNED	C.C. Chau
CHECKED	D.H. Coultas
DRAWN	h.t. duong
CHECKED	CCC/DHC

July 21, 2008  
EXAMINED *Thomas J. Domagala*  
PASSED *Ralph E. Anderson*  
ENGINEER OF BRIDGES AND STRUCTURES

**SOUTH ABUTMENT**  
F.A.P. RTE. 782 - SECTION 114B-2  
GALLATIN COUNTY  
STATION 803+60.00  
STRUCTURE NO. 030-0024



STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	SHEET NO. 15 18 SHEETS
FAP 782	114B-2	GALLATIN	62	33	
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT			

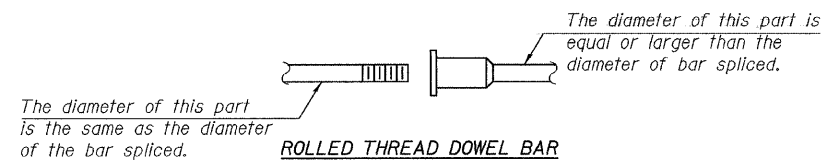
Contract No. 98887

**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 =  $0.66 \times f_y \times A_t$   
(Tension in kips)
- Where  $f_y$  = Yield strength of lapped reinforcement bars in ksi.  
 $A_t$  = Tensile stress area of lapped reinforcement bars.  
\* = 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	7.9
#5	2'-0"	23.0	12.3
#6	2'-7"	33.1	17.4
#7	3'-5"	45.1	23.8
#8	4'-6"	58.9	31.3
#9	5'-9"	75.0	39.6
#10	7'-3"	95.0	50.3
#11	9'-0"	117.4	61.8

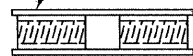


ROLLED THREAD DOWEL BAR



\*\* ONE PIECE

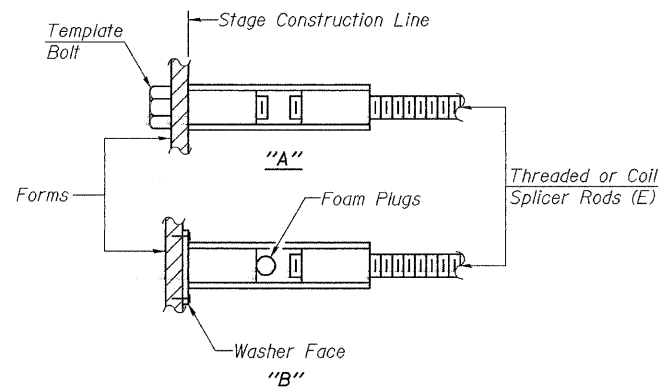
Wire Connector



WELDED SECTIONS

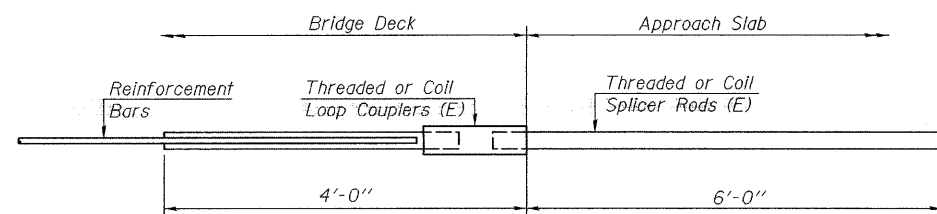
**BAR SPLICER ASSEMBLY ALTERNATIVES**

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

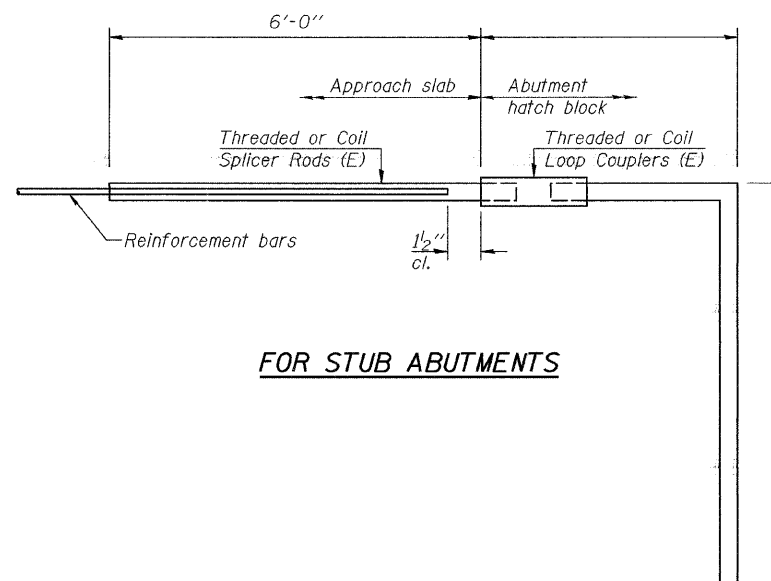


**INSTALLATION AND SETTING METHODS**

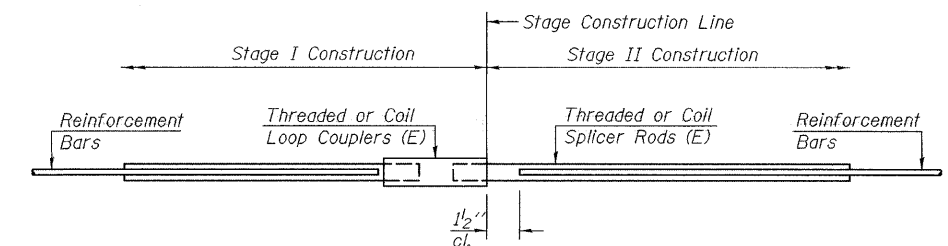
"A" :Set bar splicer assembly by means of a template bolt.  
"B" :Set bar splicer assembly by nailing to wood forms or cementing to steel forms.  
(E) : Indicates epoxy coating.



**FOR INTEGRAL OR SEMI-INTEGRAL ABUTMENTS**



**FOR STUB ABUTMENTS**



**STANDARD**

Bar Splicer for #5 bar
Min. Capacity = 23.0 kips - tension
Min. Pull-out Strength = 12.3 kips - tension
No. Required = 64

Bar Splicer for #5 bar
Min. Capacity = 23.0 kips - tension
Min. Pull-out Strength = 12.3 kips - tension
No. Required =

Bar Size	No. Assemblies Required	Location

DESIGNED	C.C. Chau
CHECKED	D.H. Coultas
DRAWN	h.f. duong
CHECKED	CCC/DHC

July 21, 2008  
EXAMINED *Thomas J. Demagala*  
PASSED *Ralph E. Anderson*  
ENGINEER OF BRIDGES AND STRUCTURES

BSD-1 5-16-08

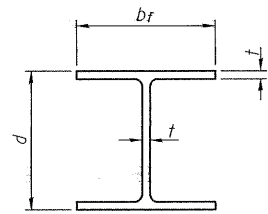
**BAR SPLICER ASSEMBLY DETAILS**  
**F.A.P. RTE. 782 - SECTION 114B-2**  
**GALLATIN COUNTY**  
**STATION 803+60.00**  
**STRUCTURE NO. 030-0024**

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAP 782	114B-2	GALLATIN	62	34
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT-		

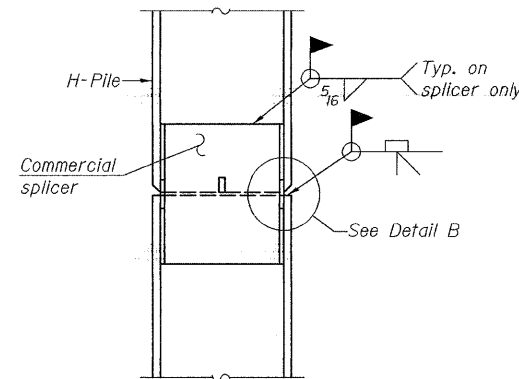
SHEET NO. 16  
18 SHEETS

Contract No. 98887

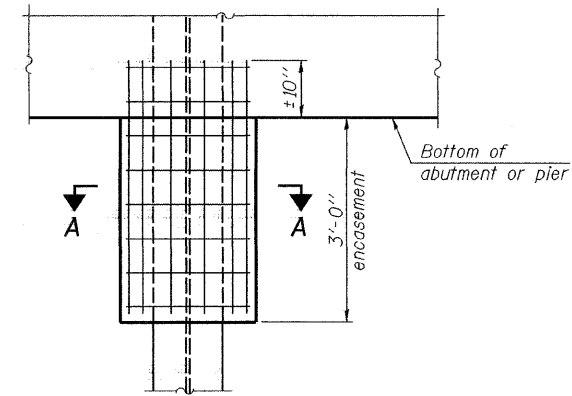


STEEL PILE TABLE

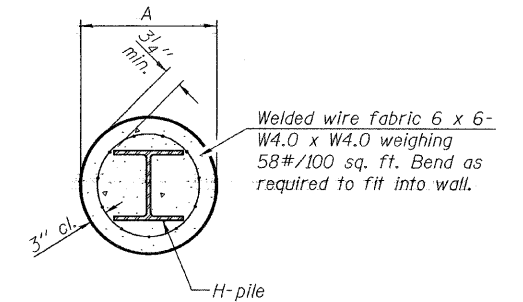
Designation	Depth d	Flange width b <sub>f</sub>	Web and Flange thickness t	Encasement diameter A
HP 14x17	14 1/4"	14 7/8"	1 5/16"	30"
x102	14"	14 3/4"	1 1/16"	30"
x89	13 7/8"	14 3/4"	5/8"	30"
x73	13 5/8"	14 5/8"	1/2"	30"
HP 12x84	12 1/4"	12 1/4"	1 1/16"	24"
x74	12 1/8"	12 1/4"	5/8"	24"
x63	12"	12 1/8"	1/2"	24"
x53	11 3/4"	12"	7/16"	24"
HP 10x57	10"	10 1/4"	9/16"	24"
x42	9 3/4"	10 1/8"	7/16"	24"
HP 8x36	8"	8 1/8"	7/16"	18"



ELEVATION



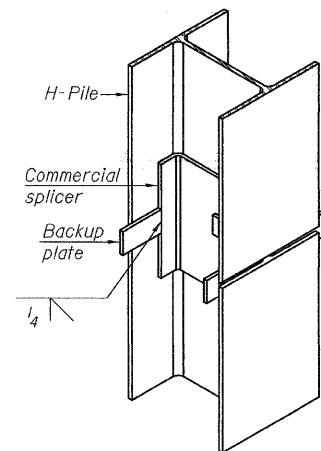
ELEVATION



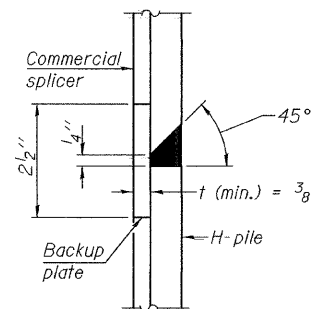
SECTION A-A

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

PILE ENCASEMENT

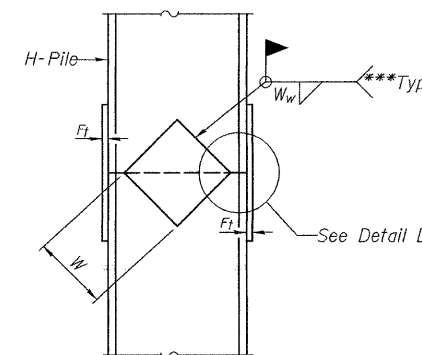


ISOMETRIC VIEW

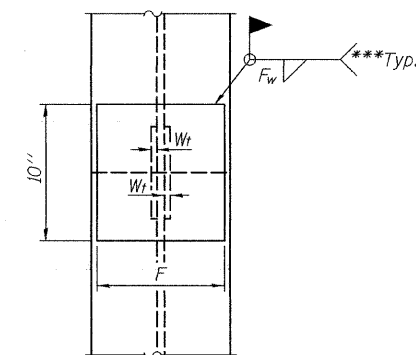


DETAIL "B"

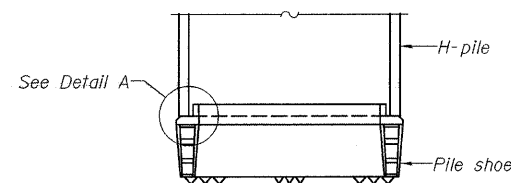
WELDED COMMERCIAL SPLICE



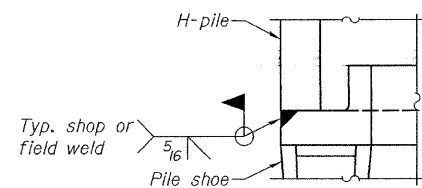
ELEVATION



END VIEW

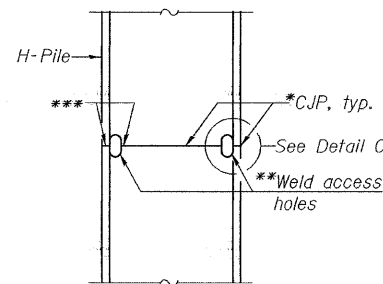


ELEVATION

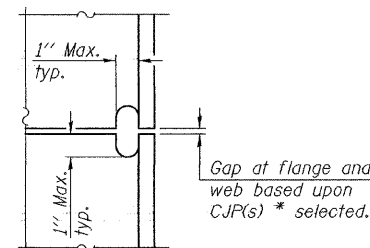


DETAIL A

H-PILE SHOE ATTACHMENT

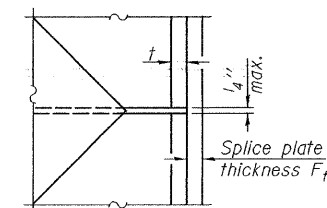


ELEVATION



DETAIL C

COMPLETE PENETRATION WELD SPLICE



DETAIL D

WELDED PLATE FIELD SPLICE

Designation	F	F <sub>t</sub>	F <sub>w</sub>	W	W <sub>t</sub>	W <sub>w</sub>
HP 14x17	12 1/2"	1"	7/8"	7 3/4"	5/8"	1/2"
x102	12 1/2"	7/8"	3/4"	7 3/4"	5/8"	1/2"
x89	12 1/2"	3/4"	1/16"	7 3/4"	5/8"	1/2"
x73	12 1/2"	5/8"	9/16"	7 3/4"	5/8"	1/2"
HP 12x84	10"	7/8"	1/16"	6 1/2"	5/8"	1/2"
x74	10"	7/8"	1/16"	6 1/2"	5/8"	1/2"
x63	10"	5/8"	1/2"	6 1/2"	1/2"	3/8"
x53	10"	5/8"	1/2"	6 1/2"	1/2"	3/8"
HP 10x57	8"	3/4"	9/16"	5 1/4"	1/2"	3/8"
x42	8"	5/8"	9/16"	5 1/4"	1/2"	3/8"
HP 8x36	7"	5/8"	7/16"	4 1/4"	1/2"	3/8"

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

STEEL H-PILE DETAILS  
F.A.P. RTE. 782 - SECTION 114B-2  
GALLATIN COUNTY  
STATION 803+60.00  
STRUCTURE NO. 030-0024

DESIGNED	C.C. Chau
CHECKED	D.H. Coultas
DRAWN	h.t. duong
CHECKED	CCC/DHC

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

F-HP 9-3-07

\*Use joint conforming to Figure 3.4 in AWS D1.1, Structure Welding Code - Steel.  
\*\*Preparation per Fig. 5.2 in AWS D1.1, Structure Welding Code - Steel.  
\*\*\*Interrupt welds 1/4" from end of each pile.



STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	SHEET NO. 18 18 SHEETS
FAP 782	114B-2	GALLATIN	62	36	
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT			

Contract No. 98887

ILLINOIS DEPARTMENT OF TRANSPORTATION  
Disturbance Materials Test Data

Project: I-44/782 (Rte 1) over Healey Creek  
Bridge: RN 0304000B-1, DEC-02/04 (P)  
Date: 10/9/03

Route: I-44/782 (L.Rte 1)  
Section: 114B-2  
County: Gallatin  
STA: 803+60  
Boring Number: A 18  
Station: 804+15  
Dred By: E Keller  
Checked By: R Nohrly  
Dwg: 12' R: CL

Spec No	Depth	Comp. str	Water %	Wtd Vt	Description
1	05.0-02.5				Augered
2	02.5-01.0				"
3	01.0-01.5				"
4	01.5-02.0				"
5	02.0-02.5	1.250	23.1	126	S/T to soil, moist, brown Silty Clay Loam A-B
6	02.5-03.0	2.199	21.1	127	"
7	03.0-03.5	2.570	20	128	"
8	03.5-04.0				No Recovery
9	04.0-04.5	3.936	25.4	174	Medium, moist to moist, brown, Silty Clay Loam A-E
10	04.5-05.0	3.960	25.1	174	"
11	05.0-05.5	3.638	28.3	123	"
12	05.5-06.0				No Recovery
13	06.0-06.5				No Recovery
14	06.5-07.0	3.999	18.7	126	Medium, moist to moist, brown, Silty Clay Loam A-E
15	07.0-07.5	3.999	19.4	126	"
16	07.5-08.0	3.660	22	126	"
17	08.0-08.5	3.660	24.6	126	"
18	08.5-09.0				No Recovery
19	09.0-09.5	3.170	23.7	111	Medium, moist to moist, brown, Silty Clay Loam A-E
20	09.5-10.0	3.170	23.6	119	"
21	10.0-10.5	3.050	22.9	126	Medium, medium, brown mottled gray, Silty Clay A-B
22	10.5-11.0	3.050	24.5	122	"
23	11.0-11.5				No Recovery
24	11.5-12.0	3.406	28.6	170	Medium, medium, brown mottled gray, Silty Clay A-B
25	12.0-12.5	3.508	29.4	119	"
26	12.5-13.0	3.550	28.6	117	"
27	13.0-13.5				No Recovery
28	13.5-14.0				No Recovery
29	14.0-14.5	1.869	22.9	132	S/T to soil, moist, grey mottled brown, Silty Clay A-B
30	14.5-15.0	1.860	22.5	126	"
31	15.0-15.5	3.179	21.8	126	"
32	15.5-16.0				No Recovery
33	16.0-16.5				No Recovery
34	16.5-17.0				No Recovery
35	17.0-17.5	1.788	21.3	130	S/T to soil, moist, grey mottled brown, Silty Clay A-B
36	17.5-18.0	1.865	23.2	126	"
37	18.0-18.5				No Recovery
38	18.5-19.0				No Recovery
39	19.0-19.5	1.636	21	134	Medium to stiff, moist, grey mottled brown, Silty Clay A
40	19.5-20.0	1.636	21	126	"
41	20.0-20.5				No Recovery

S-SHEAR B-BULGE P-PENETROMETER

ILLINOIS DEPARTMENT OF TRANSPORTATION  
Disturbance Materials Test Data

Project: I-44/782 (Rte 1) over Healey Creek  
Bridge: RN 0304000B-1, DEC-02/04 (P)  
Date: 10/9/03

Route: I-44/782 (L.Rte 1)  
Section: 114B-2  
County: Gallatin  
STA: 803+60  
Boring Number: A 18  
Station: 804+15  
Dred By: E Keller  
Checked By: R Nohrly  
Dwg: 12' R: CL

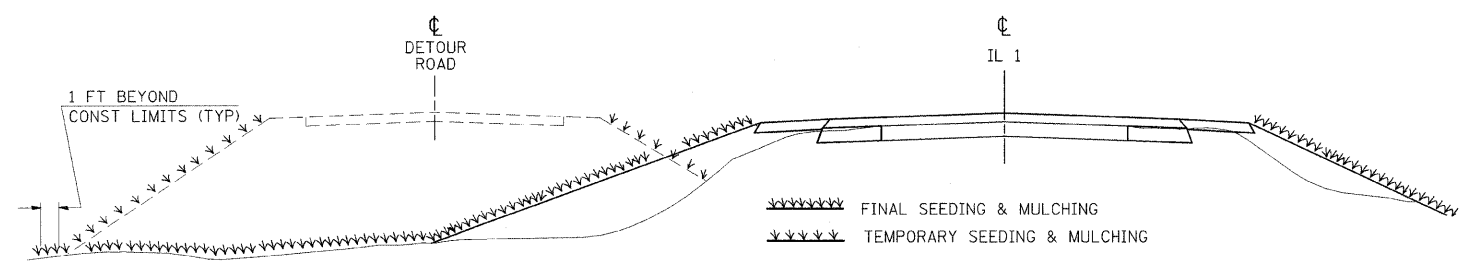
Spec No	Depth	Comp. str	Water %	Wtd Vt	Description
42	20.5-21.0	3.915	26.2	116	"
43	21.0-21.5	3.610	23.5	126	"
44	21.5-22.0				No Recovery
45	22.0-22.5	3.680	21.7	126	Medium to stiff, moist, grey mottled brown, Silty Clay A
46	22.5-23.0	1.546	23.1	126	"
47	23.0-23.5	1.719	21.1	126	"
48	23.5-24.0	1.325	23.1	116	"
49	24.0-24.5				No Recovery
50	24.5-25.0	3.670	23.5	121	Medium to stiff, moist, grey mottled brown, Silty Clay A
51	25.0-25.5	3.678	33.5	119	"
52	25.5-26.0	3.978	28.9	122	"
53	26.0-26.5	3.748	23.6	120	"
54	26.5-27.0				No Recovery
55	27.0-27.5	3.900	28.6	124	Medium to stiff, moist, grey mottled brown, Silty Clay A
56	27.5-28.0	3.690	28.7	125	"
57	28.0-28.5	3.680	28.5	125	Medium to stiff, moist, grey mottled brown, Silty Clay Loam A-B
58	28.5-29.0	3.640	28.1	126	"
59	29.0-29.5				No Recovery
60	29.5-30.0	3.688	25.6	126	Medium to stiff, moist, grey mottled brown, Silty Clay Loam A-B
61	30.0-30.5	3.618	24	125	"
62	30.5-31.0	3.475	22.3	123	"
63	31.0-31.5				No Recovery
64	31.5-32.0				No Recovery
65	32.0-32.5	3.185	27.5	128	Loose, wet, brown, Sand w/ Silty Clay A-B layers
66	32.5-33.0	3.128	27.1	131	"
67	33.0-33.5	3.188	26.9	128	"
68	33.5-34.0				No Recovery
69	34.0-34.5				No Recovery
70	34.5-35.0				Loose, wet, brown, Sand w/ Silty Clay A-B layers
71	35.0-35.5				No Recovery
72	35.5-36.0	3.680	33.8	125	Very stiff, moist, grey, Clay A7-E
73	36.0-36.5	2.088	27.6	118	"
74	36.5-37.0				No Recovery

S-SHEAR B-BULGE P-PENETROMETER

BORING LOGS  
F.A.P. RTE. 782 - SECTION 114B-2  
GALLATIN COUNTY  
STATION 803+60.00  
STRUCTURE NO. 030-0024

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
782	114B-2	GALLATIN	62	37
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	

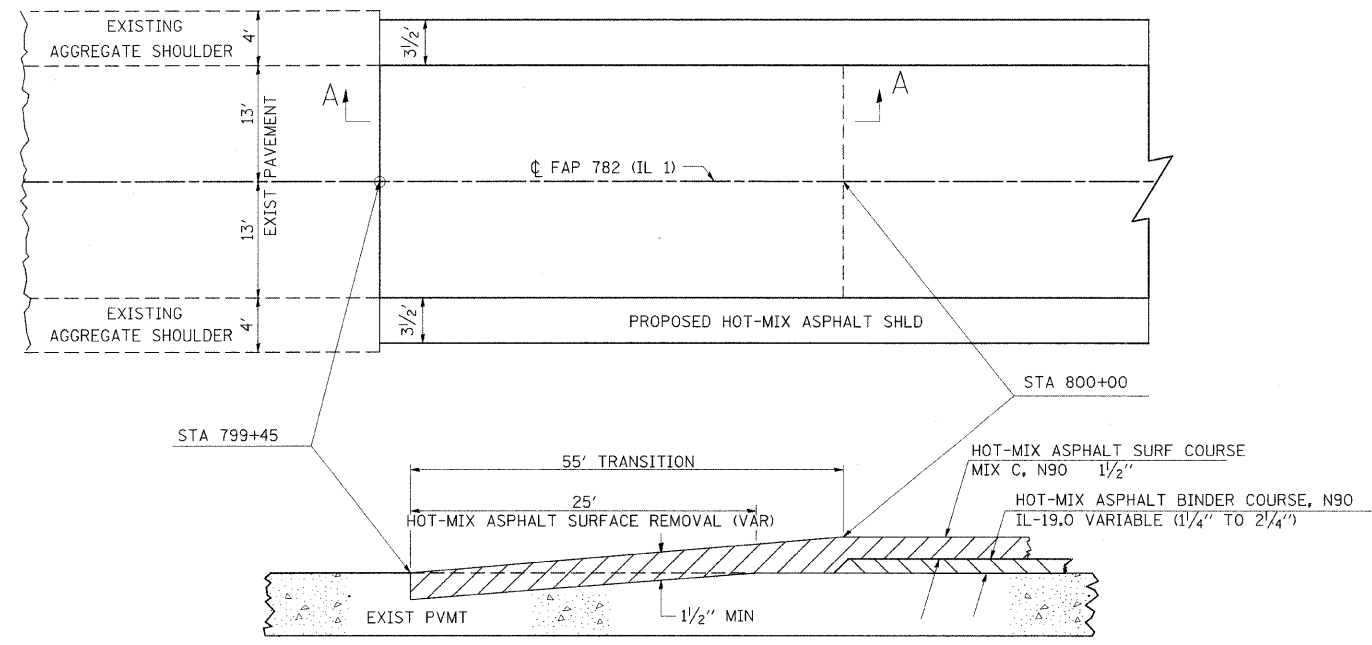
### SEEDING & MULCHING (WITH DETOUR ROAD)



### BUTT JOINT PAVEMENT CROSS SLOPES

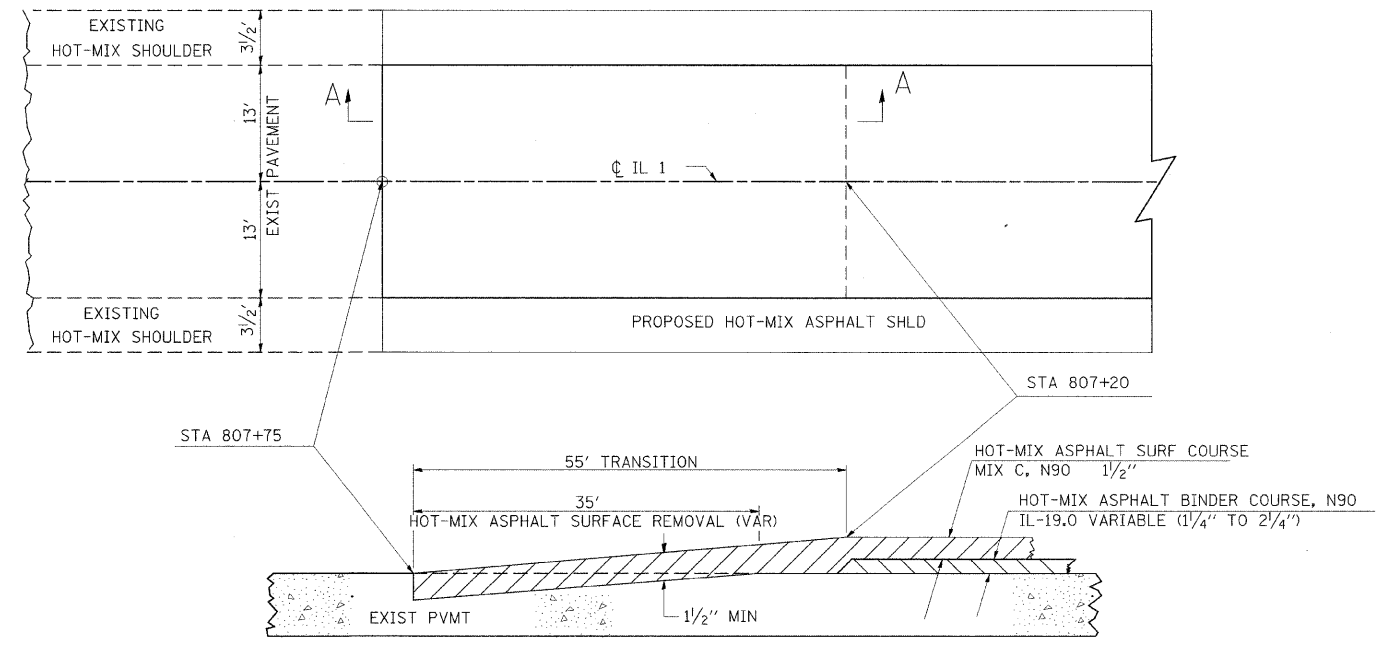
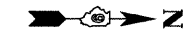
	BUTT JOINT PAVEMENT CROSS SLOPES			
	NB EXISTING (PERCENT)	NB PROPOSED (PERCENT)	SB EXISTING (PERCENT)	SB PROPOSED (PERCENT)
799+25.0	1.23	1.23	0.98	0.98
799+50.0	1.33	1.32	1.02	1.15
799+75.0	1.23	1.41	1.08	1.33
800+00.0	1.15	1.50	1.18	1.50
807+00.0	2.41	1.50	1.66	1.50
807+20.0	2.50	1.50	1.61	1.50
807+25.0	2.51	1.61	1.58	1.50
807+50.0	2.62	2.16	1.62	1.59
807+75.0	2.72	2.72	1.66	1.66

### NORTH BUTT JOINT



SECTION A-A

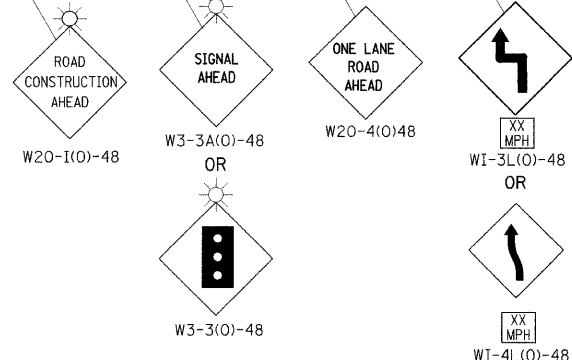
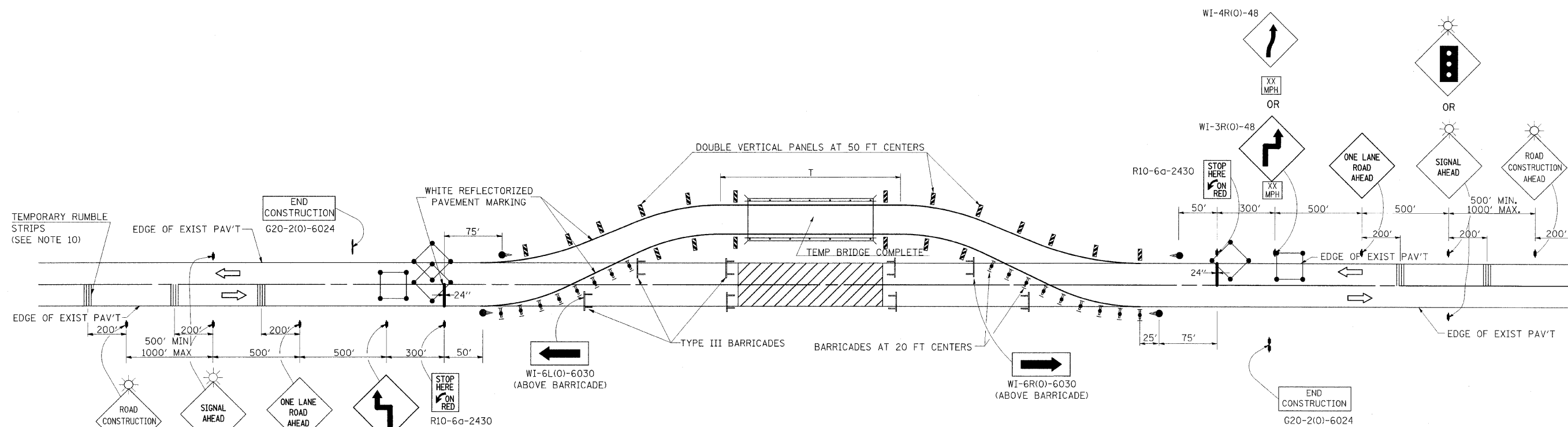
### SOUTH BUTT JOINT



SECTION A-A

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
782	114B-2	GALLATIN	62	38
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

## TRAFFIC CONTROL DEVICES TO BE USED WITH ONE LANE DETOUR



### TRAFFIC SIGNALS

SEQUENCE OF OPERATIONS						
PHASE	A			B		
INTERVAL	1	2	3	4	5	6
NORTH BOUND	OR	G	Y	R	R	R
EASTBOUND						
SOUTHBOUND	OR	R	R	R	G	Y
WESTBOUND						

### SYMBOLS

- INDUCTION LOOP DETECTOR
- WORK AREA
- SIGN ON PORTABLE OR PERMANENT SUPPORT
- BARRICADE OR DRUM WITH STEADY BURNING LIGHT
- DOUBLE VERTICAL PANEL
- TRAFFIC SIGNAL
- FLASHING BEACON
- TYPE III BARRICADE

### TYPICAL APPLICATION

BRIDGE CONSTRUCTION  
CULVERT CONSTRUCTION

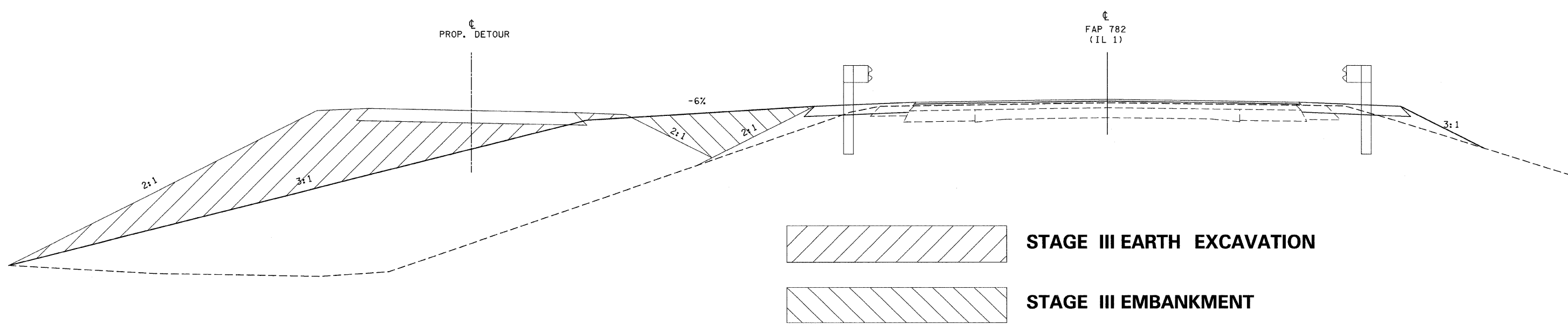
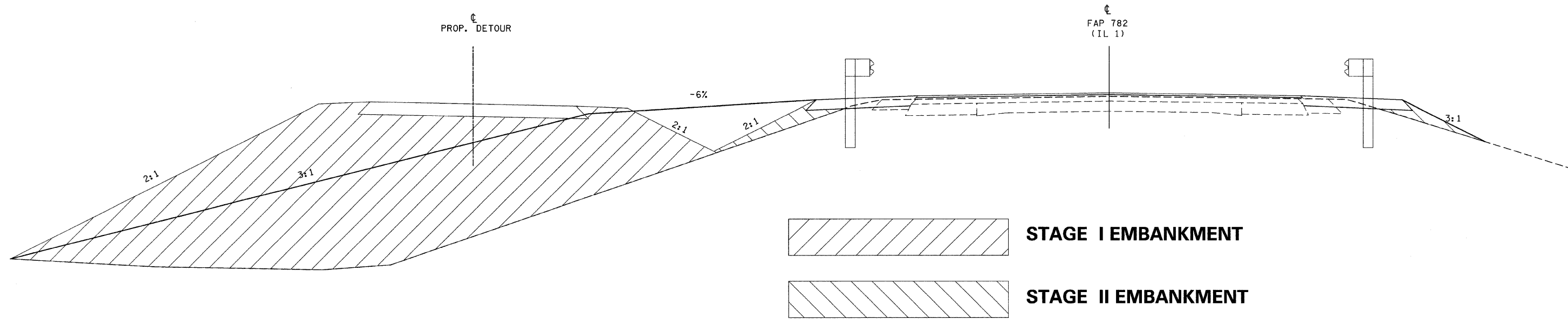
TWO-LANE, TWO WAY TRAFFIC, RURAL TEMPORARY ONE LANE RUNAROUND DAY OR NIGHT OPERATIONS.

WHERE, AT ANY TIME, ANY VEHICLE, EQUIPMENT, MEN OR THEIR ACTIVITIES REQUIRE THE CLOSURE OF BOTH LANES AND A TEMPORARY ONE LANE RUNAROUND IS CONSTRUCTED.

### GENERAL NOTES

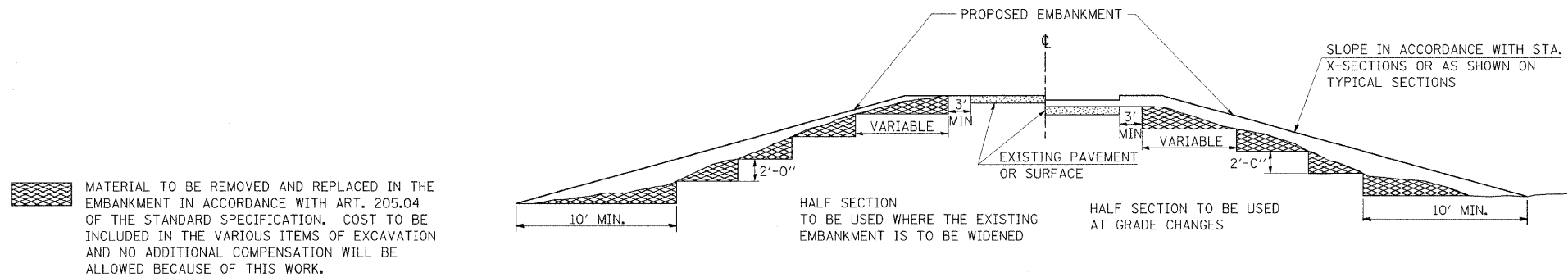
1. THE ENGINEER MUST BE NOTIFIED AT LEAST 72 HOURS PRIOR TO PLACING THE TEMPORARY SIGNALS IN OPERATION SO THAT ARRANGEMENTS CAN BE MADE TO INSPECT THE INSTALLATION AND SET THE TIMING OF THE SIGNALS.
2. BIDIRECTIONAL STEADY BURNING AMBER LIGHTS SHALL BE ATTACHED TO THE TEMPORARY BRIDGE RAIL AT 25 FOOT CENTERS AND KEPT BURNING FROM DUSK UNTIL DAWN EACH NIGHT THE TEMPORARY BRIDGE RAIL IS IN USE.
3. ALL BARRICADE LIGHTS SHALL BE BIDIRECTIONAL.
4. ON PAVED RUNAROUNDS, REFLECTIVE EDGE LINES SHALL BE USED WHEN THE CLOSURE TIME EXCEEDS FOUR DAYS OR WHEN THE NORMAL POSTED SPEED OUTSIDE THE AREA OF OPERATIONS EXCEEDS 50 MILES PER HOUR. REFLECTORIZED PAVEMENT MARKING TAPE SHALL BE USED FOR MARKING THE EDGE LINES ON THE EXISTING PAVEMENT. EITHER TAPE OR REFLECTORIZED PAVEMENT MARKING PAINT MAY BE USED FOR MARKINGS ON THE PAVED RUNAROUNDS. RAISED REFLECTIVE PAVEMENT MARKERS AT 25 FT CENTERS MAY BE USED IN LIEU OF TAPE OR PAINT WHERE THE PAVEMENT MARKING IS TO BE PLACED ADJACENT TO BARRICADES OR VERTICAL PANELS.
5. THE EXISTING CENTERLINE AND EDGE LINE MARKINGS WHICH CONFLICT WITH THE DETOUR TRAFFIC PATTERN SHALL BE REMOVED AS SOON AS TRAFFIC IS DIRECTED TO THE DETOUR, AND REPLACED WITH TEMPORARY OR PERMANENT PAVEMENT MARKING AS SOON AS THE HIGHWAY IS REOPENED.
6. A CURVE SIGN WILL BE REQUIRED AT THE EXIT END OF THE RUNAROUNDS IF (T) IS EQUAL TO OR GREATER THAN 1,000 FEET.
7. THE ADVISORY SAFE SPEED TO BE SHOWN BELOW THE REVERSE CURVE (TURN) SIGNS SHALL BE DETERMINED AT THE SIGHT AND APPROVED BY THE ENGINEER.
8. ALL SIGNS SHALL BE POST MOUNTED IF THE CLOSURE TIME EXCEEDS FOUR DAYS.
9. LONGITUDINAL DIMENSIONS MAY BE ADJUSTED TO FIT THE FIELD CONDITIONS.
10. TEMPORARY RUMBLE STRIPS SHALL BE INSTALLED WHERE SHOWN ABOVE. THE COST SHALL BE INCLUDED IN PRICE FOR TRAFFIC CONTROL AND PROTECTION, STANDARD 701306 (SPECIAL)
11. THE SIGNAL INSTALLATION SHALL MEET THE REQUIREMENTS OF ARTICLE 701.18(b)

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
782	114B-2	GALLATIN	62	39
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	



F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
782	114B-2	GALLATIN	62	40
STA. _____		TO STA. _____		
FED. ROAD DIST. NO. _____		ILLINOIS FED. AID PROJECT		

## TYPICAL CROSS SECTION SHOWING STEP CONSTRUCTION ON EXISTING FILL



### RURAL SIDE APPROACH DETAILS

#### PRIVATE AND COMMERCIAL ENTRANCES

#### PRIVATE AND COMMERCIAL ENTRANCES (PROPOSED CULVERT)

#### SIDEROADS

#### SIDEROADS (PROPOSED CULVERT)

#### PRIVATE AND COMMERCIAL ENTRANCES

#### SIDEROADS

#### PRIVATE AND COMMERCIAL ENTRANCES

#### SIDEROADS

#### LEGEND

- ① CONSTRUCT HOT-MIX ASPHALT SHOULDER "FULL SHOULDER WIDTH" THROUGH ENTRANCE/INTERSECTION UNLESS OTHERWISE SHOWN ON THE PLANS OR AS DIRECTED BY THE ENGINEER.
- ② IF REQUIRED, AGGREGATE TAPER FOR EXISTING GRAVEL SURFACE; HOT-MIX ASPHALT TAPER FOR EXISTING HIGHER TYPE SURFACES.
- ③ 6" AGGREGATE SURFACE COURSE FOR EXISTING GRAVEL SURFACE; 2" HOT-MIX ASPHALT RESURFACING ON 4" AGGREGATE BASE COURSE FOR EXISTING HOT-MIX ASPHALT SURFACE; PCC DRIVEWAY PAVEMENT (6" - PE; 7" - CE) FOR EXISTING CONCRETE SURFACE.
- ④ 3" MINIMUM HOT-MIX ASPHALT RESURFACING ON 8" MINIMUM AGGREGATE BASE COURSE FOR EXISTING GRAVEL SURFACE OR OIL & CHIP SURFACE; MATCH EXISTING FOR EXISTING HIGHER TYPE SURFACES.

#### GENERAL NOTES

1. ENTRANCE LOCATIONS ARE TO COMPLY WITH IDOT'S POLICY "ACCESS TO STATE HIGHWAYS".
2. IN GENERAL, RELOCATED PRIVATE ENTRANCES ARE TO HAVE A 16' WIDE SURFACE WITH 3' WIDE SHOULDERS (22' WIDE EMBANKMENT).
3. SEE PLANS FOR PROPOSED PROFILE GRADES AT ENTRANCES/SIDEROADS. THE DESIRABLE MAXIMUM PROFILE GRADE FOR ENTRANCES ARE 12% FOR PE; 10% FOR CE.
4. ENTRANCE PIPE CULVERTS ARE TO BE A MINIMUM 15" DIAMETER AND NORMALLY REPLACED IN KIND; SIDEROAD PIPE CULVERTS ARE GENERALLY TO BE CONCRETE (18" MINIMUM DIAMETER).
5. THE INTERSECTION RADII OF SIDEROADS CONSTRUCTED TO FULL POLICY STANDARDS SHOULD COMPLY WITH THAT NOTED IN THE BUREAU OF LOCAL ROADS ADMINISTRATIVE POLICIES MANUAL (5-8-13).

#### SIDEROAD DIMENSIONS (MIN.)

ADT	A (FT)	B (FT)
0 TO 250	18'	2'
250 TO 400	20'	2'
GREATER THAN 400	22'	4'

#### FIELD ENTRANCE TREATMENT

CONSTRUCT MAINLINE HOT-MIX ASPHALT AND AGGREGATE SHOULDERS THROUGH FIELD ENTRANCES. IF A PIPE IS REQUIRED, PROVIDE A 22' WIDE EARTH EMBANKMENT WITH 15' RADII AT THE INTERSECTION.

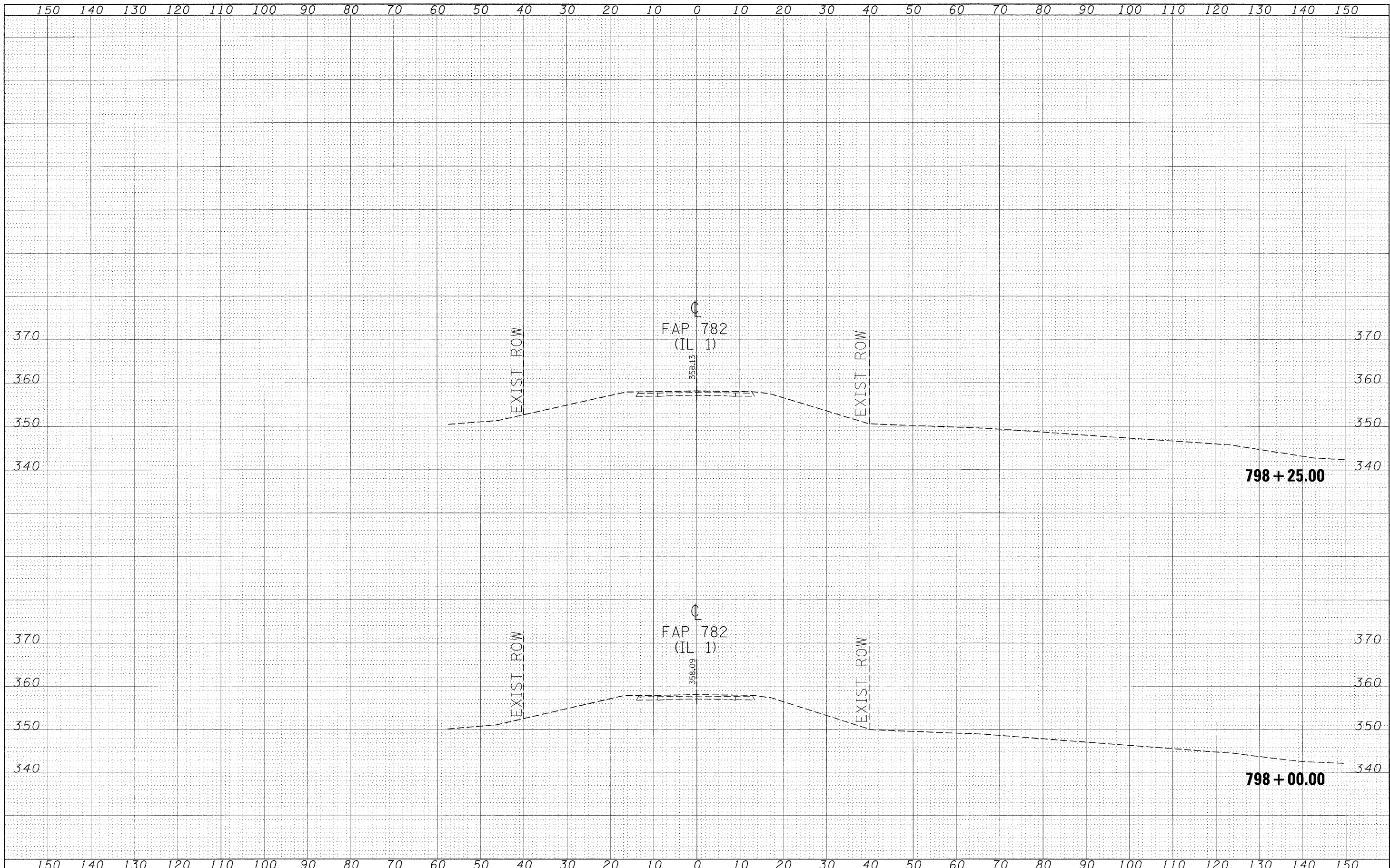
#### WIDTH TRANSITION DETAIL TO EXISTING (IF APPLICABLE)

#### DETAIL FOR CALCULATING CULVERT LENGTH



FINAL SURVEY	DATE
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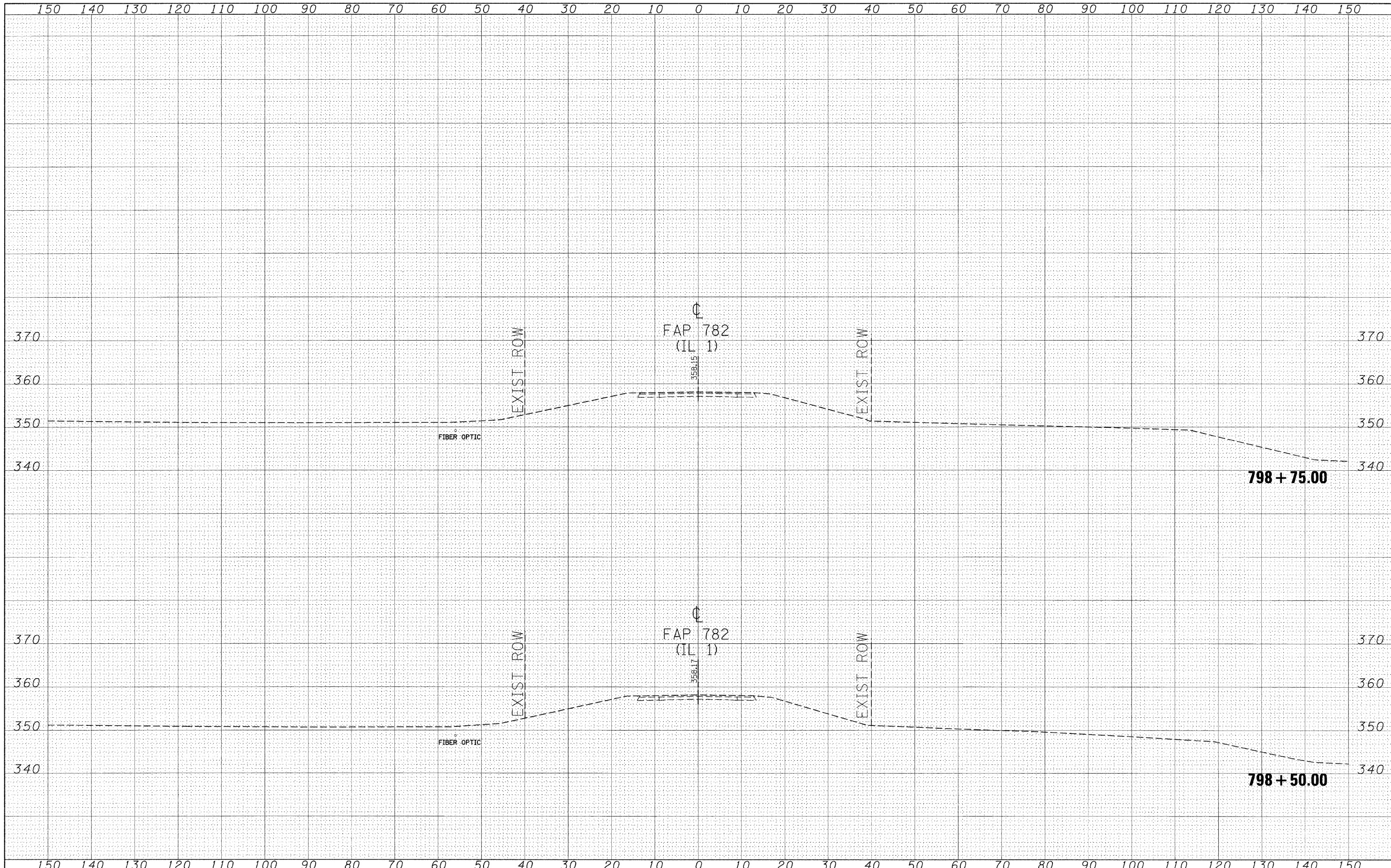
**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

SCALE: SHEET NO. 41 OF 62 SHEETS STA. 798+00.00 TO STA. 798+25.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
782	114B-2	98887	62	41
FED. ROAD DIST. NO.			ILLINOIS FED. AID PROJECT	
			CONTRACT NO. 98887	

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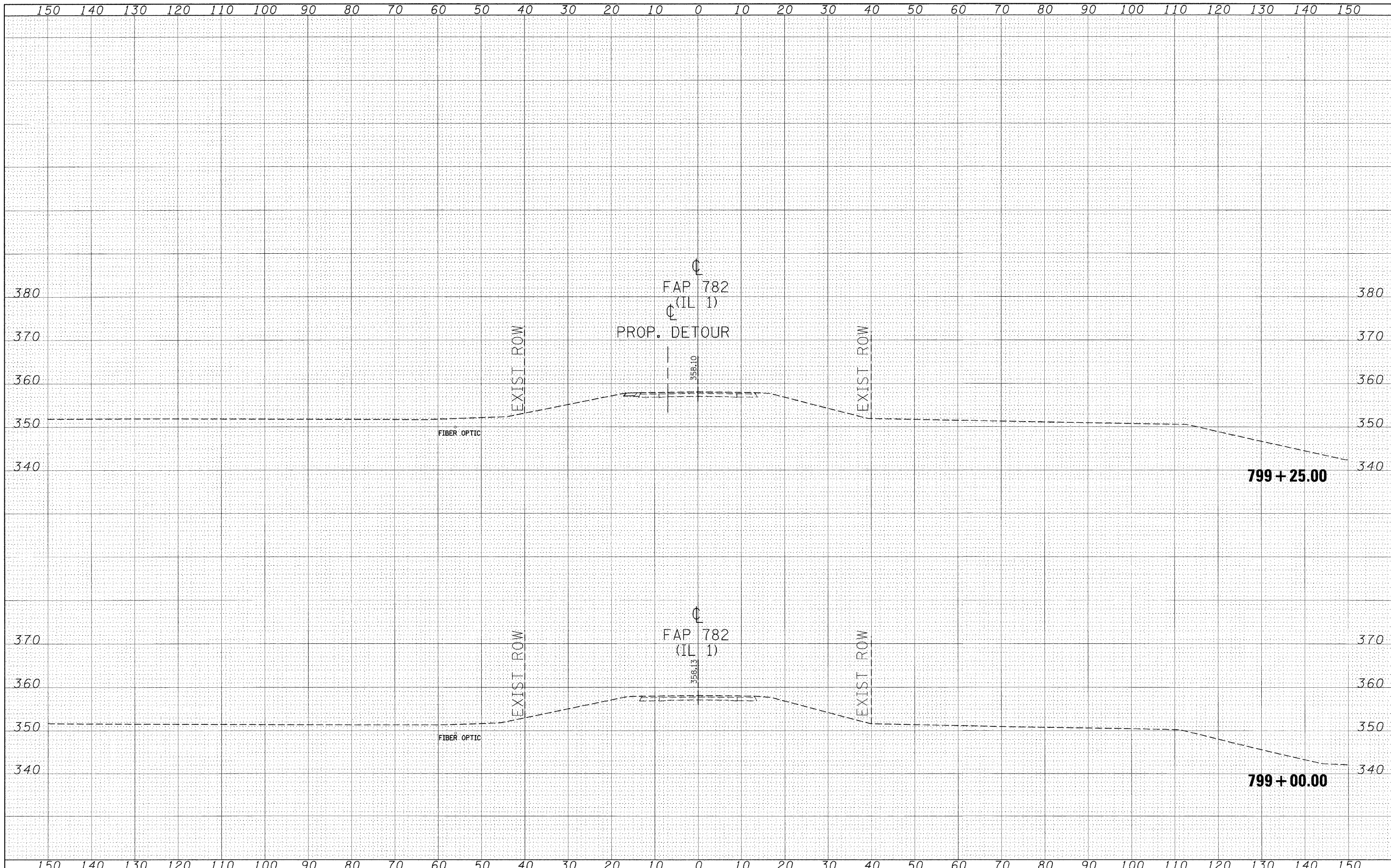
**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

SCALE: SHEET NO. 42 OF 62 SHEETS STA. 798+50.00 TO STA. 798+75.00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
782	114B-2	98887	62	42
FED. ROAD DIST. NO.			ILLINOIS FED. AID PROJECT	
			CONTRACT NO. 98887	

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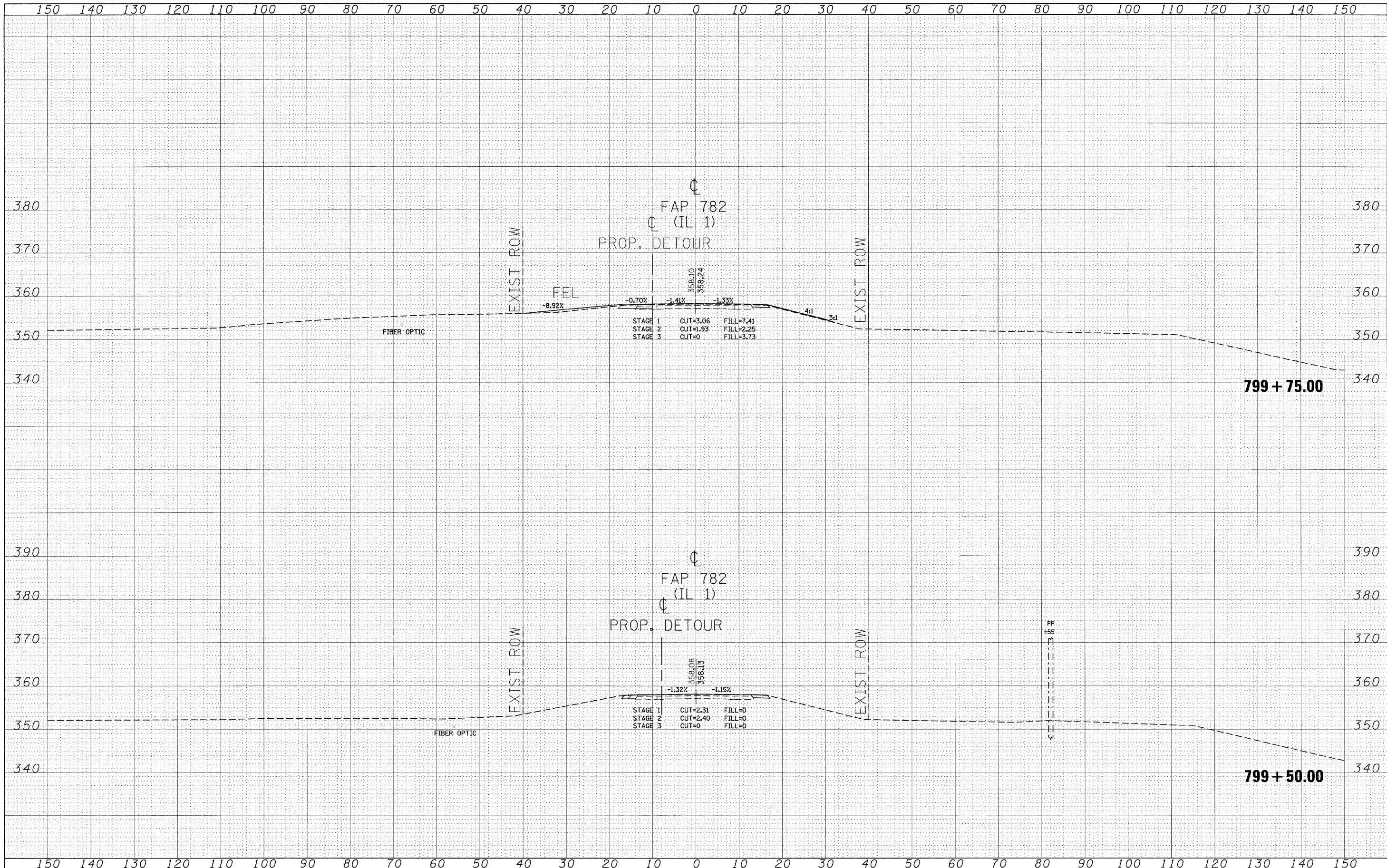
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

SCALE: SHEET NO. 43 OF 62 SHEETS STA. 799+00.00 TO STA. 799+25.00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
782	114B-2	98887	62	43
CONTRACT NO. 98887				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

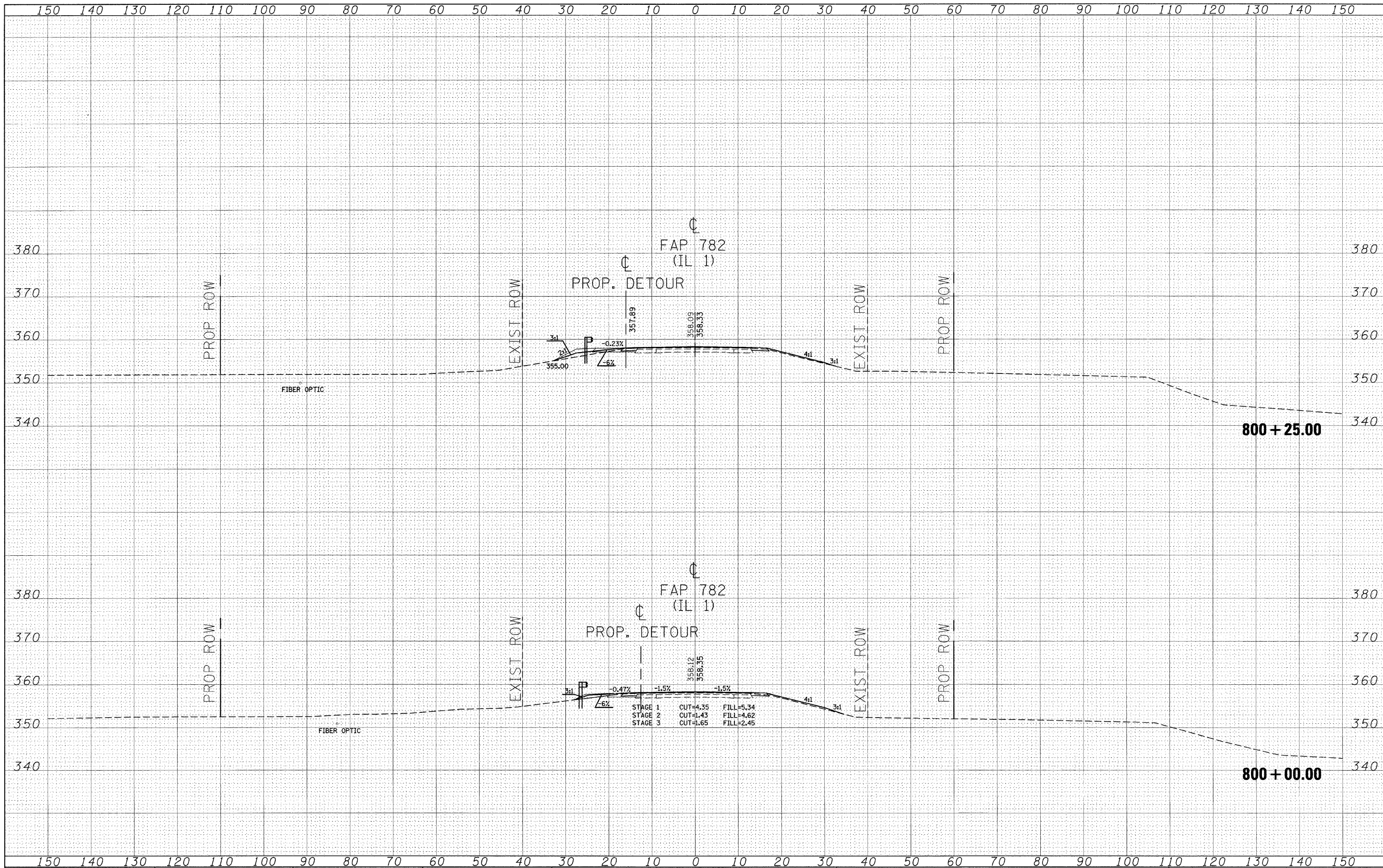
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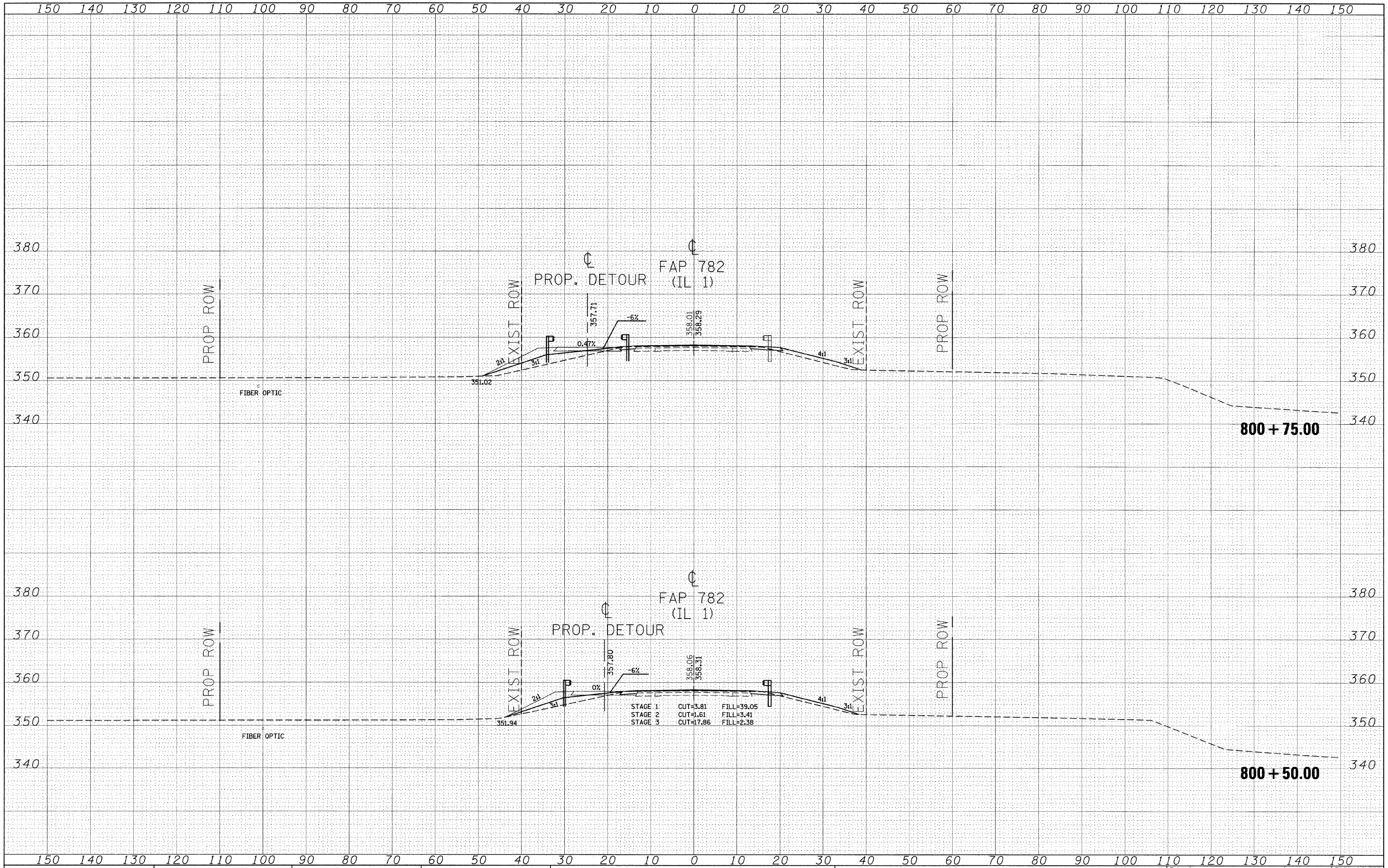
**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

SCALE: SHEET NO. 45 OF 62 SHEETS STA. 800+00.00 TO STA. 800+25.00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
782	114B-2	98887	62	45
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT			CONTRACT NO. 98887	

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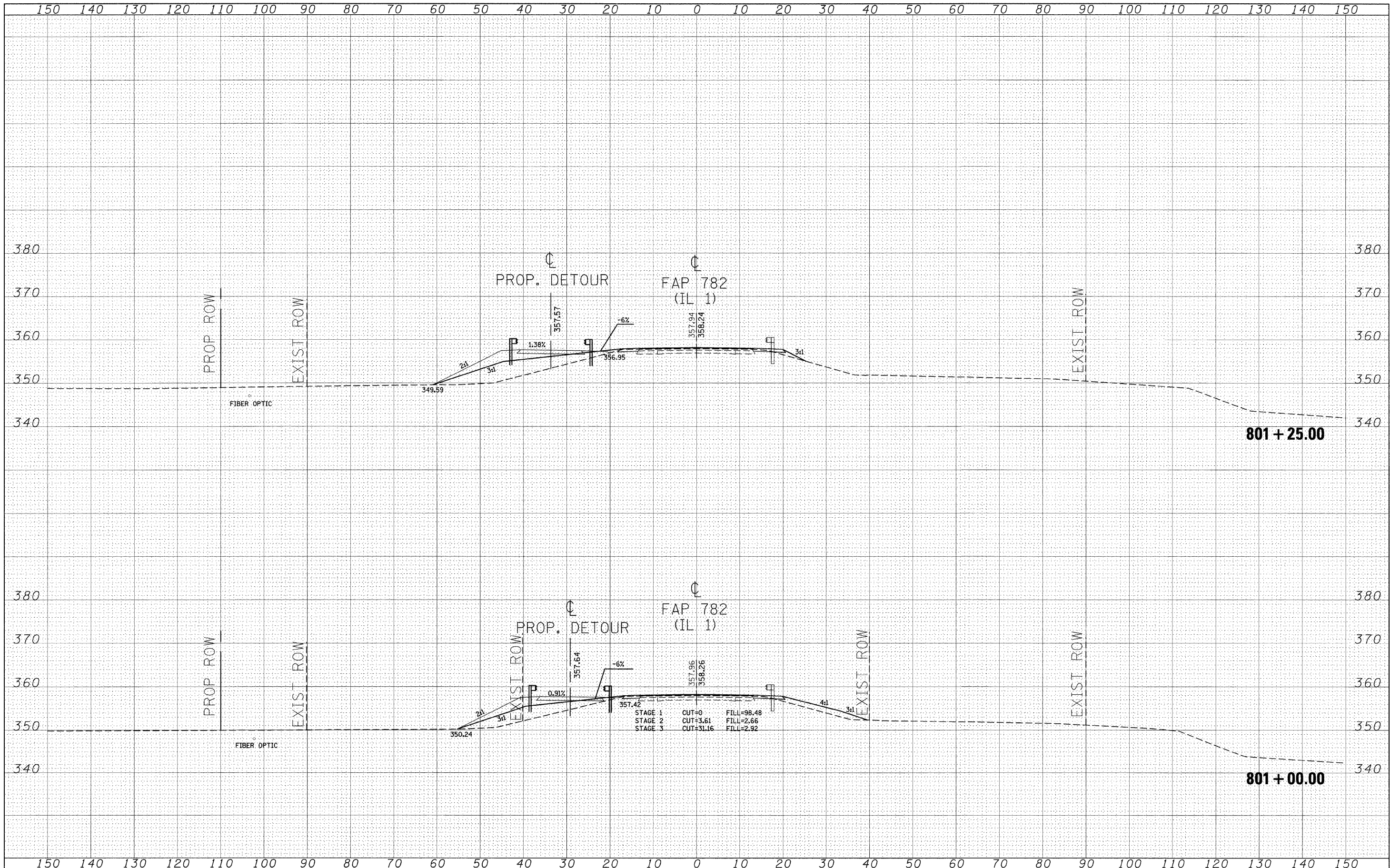
**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

SCALE: SHEET NO. 46 OF 62 SHEETS STA. 800+50.00 TO STA. 800+75.00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
782	114B-2	98887	62	46
FED. ROAD DIST. NO.			ILLINOIS FED. AID PROJECT	

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NOTE BOOK	NO.
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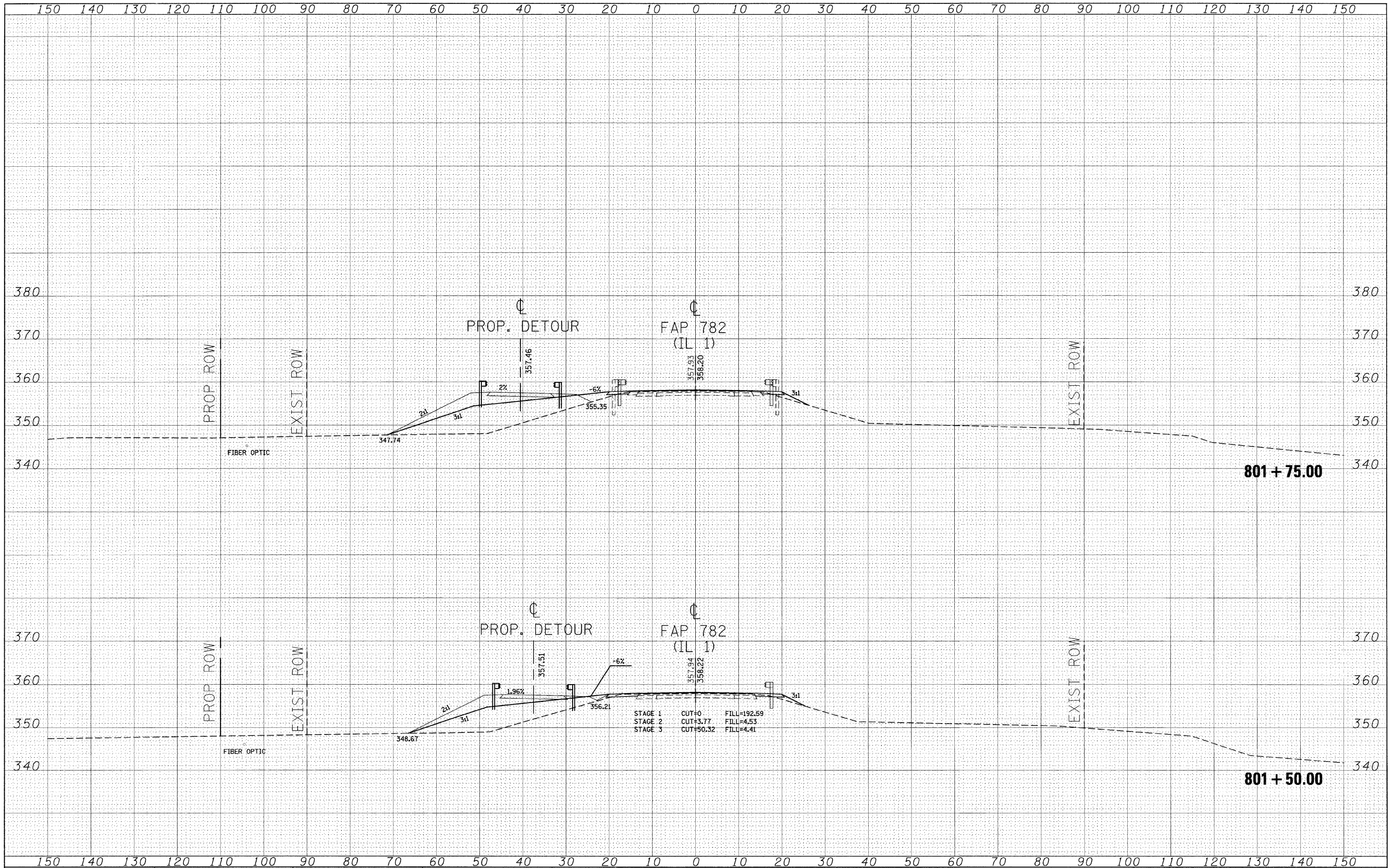
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**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

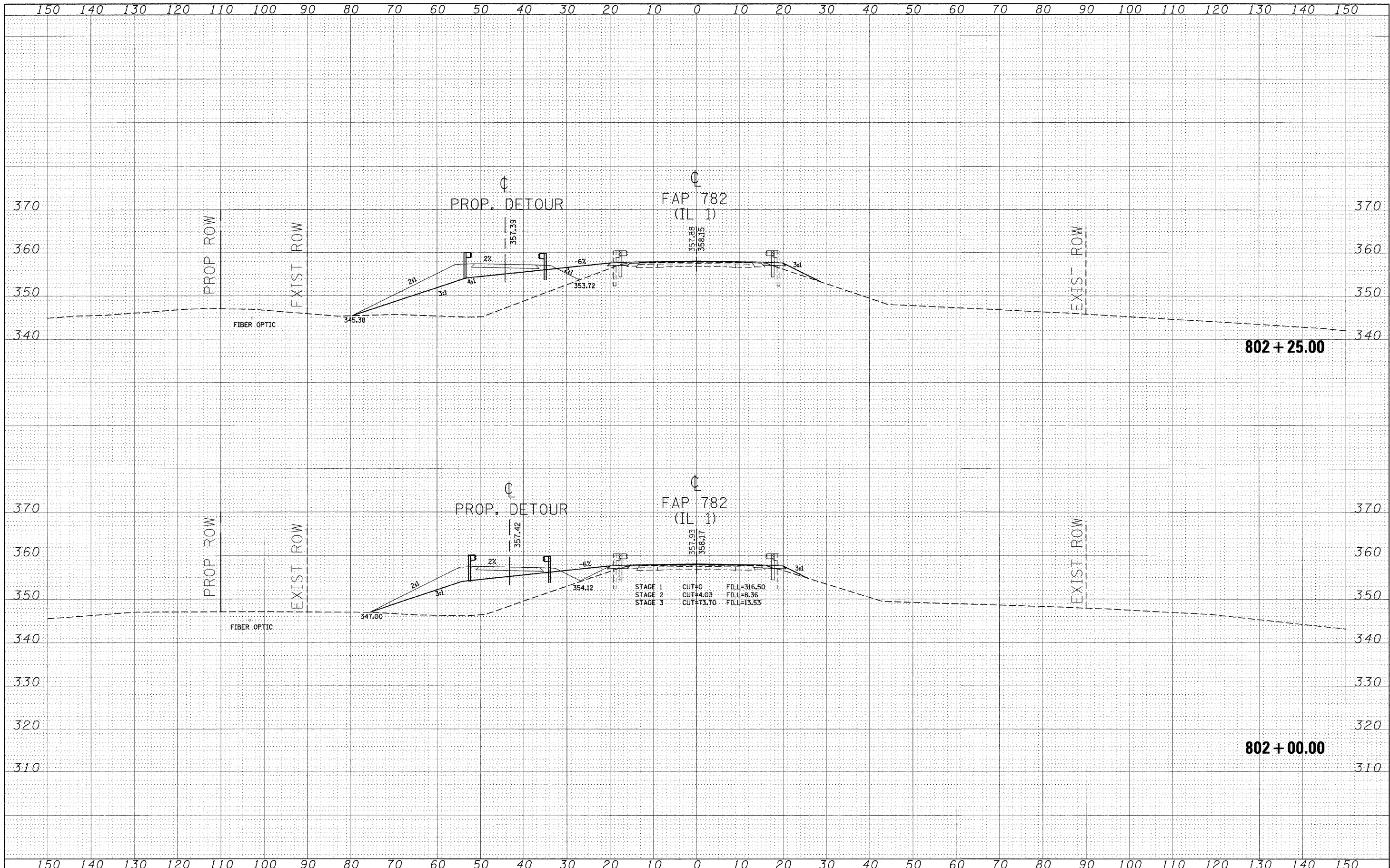
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F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
782	114B-2	98887	62	48
CONTRACT NO. 98887				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				



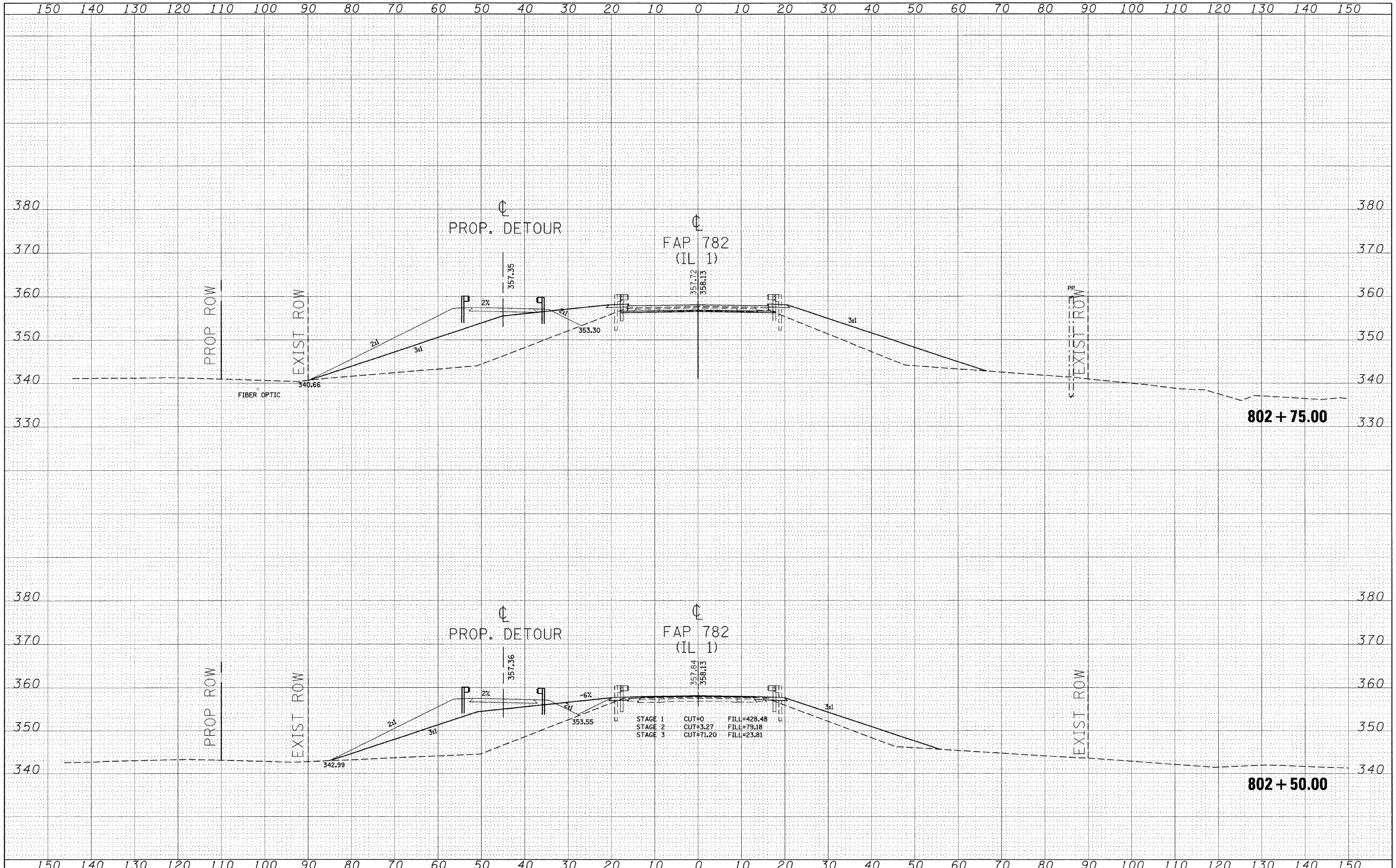
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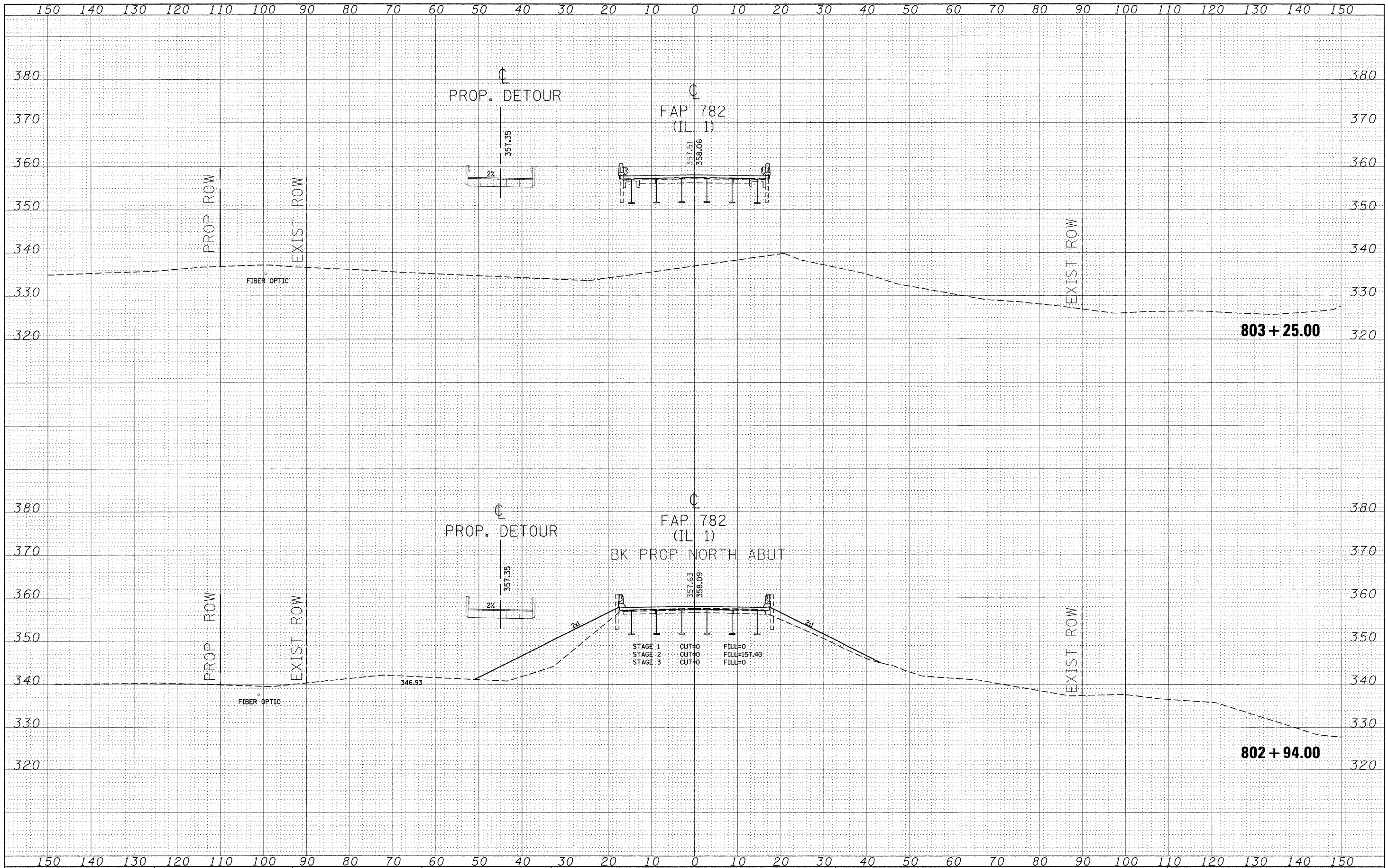
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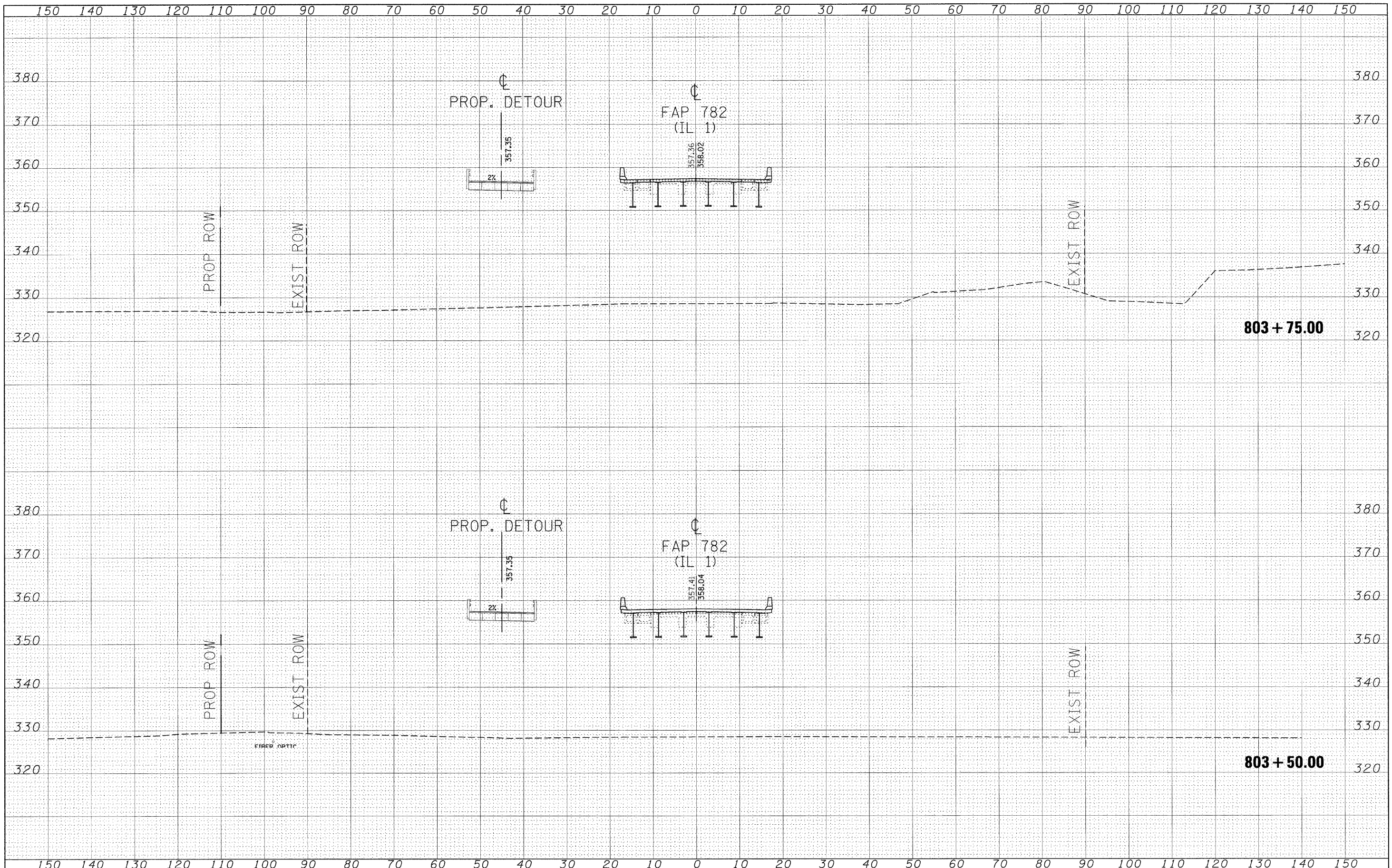
**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

SCALE: SHEET NO. 51 OF 62 SHEETS STA. 802+94.00 TO STA. 803+25.00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
782	114B-2	98887	62	51
FED. ROAD DIST. NO.			ILLINOIS FED. AID PROJECT	
			CONTRACT NO. 98887	

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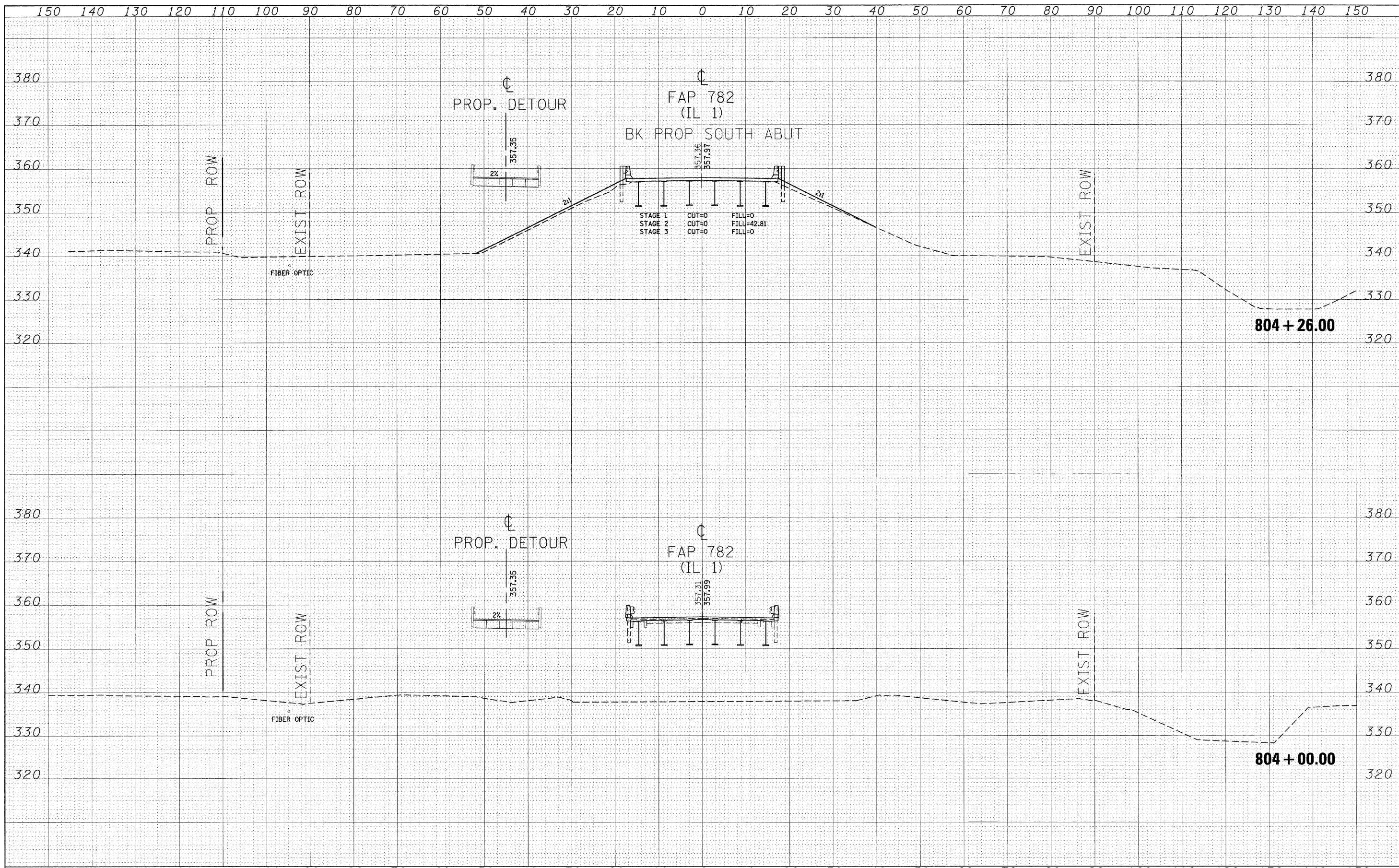
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**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

SCALE: SHEET NO. 52 OF 62 SHEETS STA. 803+50.00 TO STA. 803+75.00

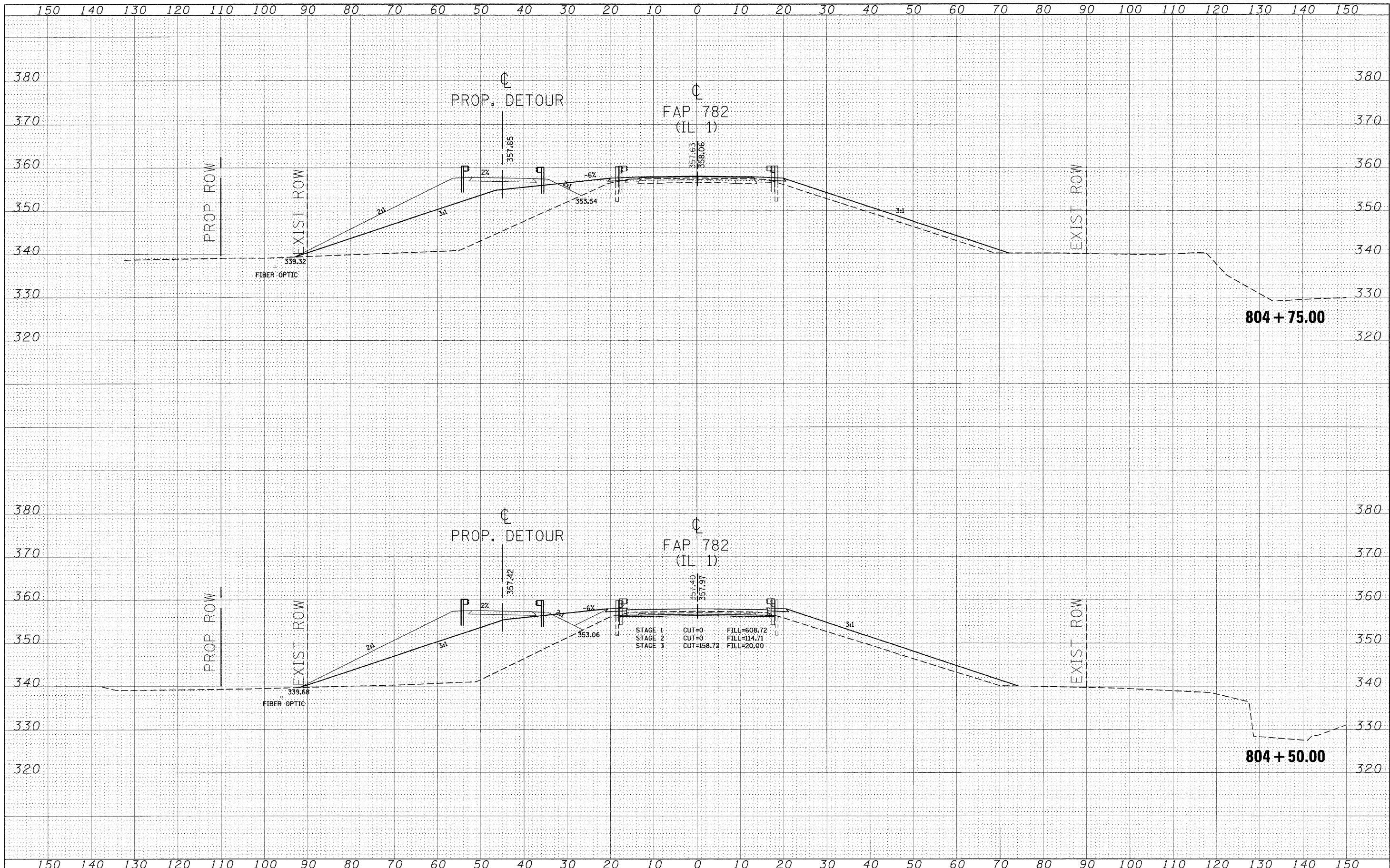
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782	114B-2	98887	62	52
CONTRACT NO. 98887			ILLINOIS FED. AID PROJECT	



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ORIGINAL SURVEY	DATE
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CONTRACT NO. 98887													



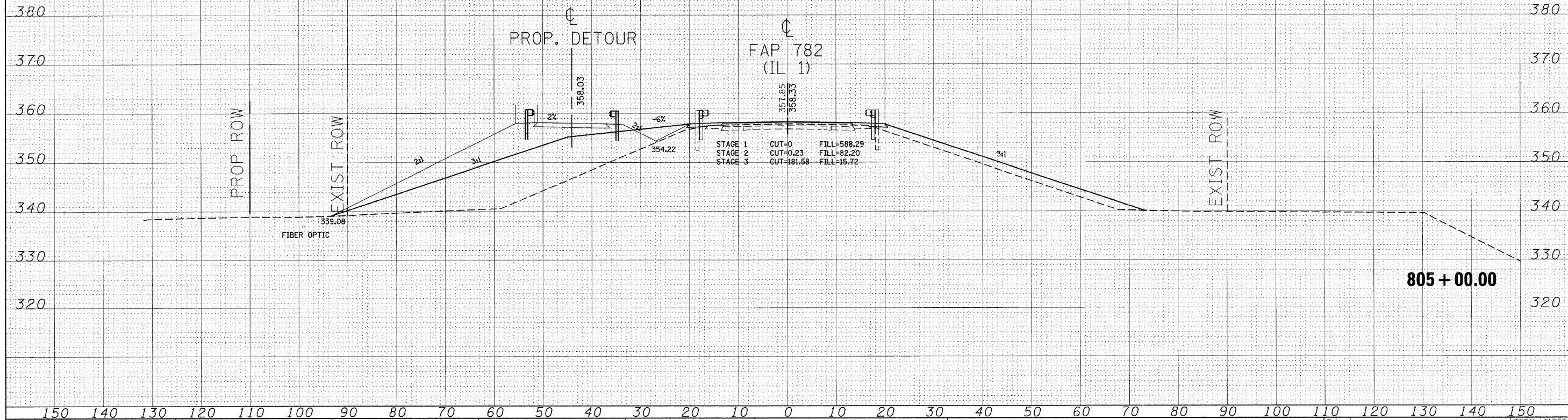
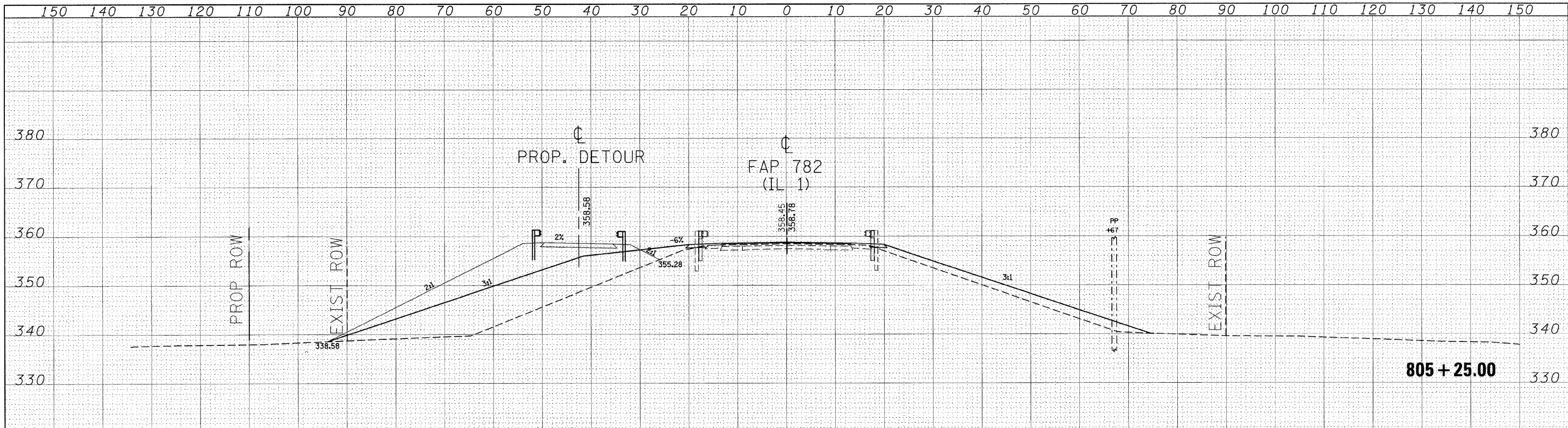
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		PLT DATE = 6/18/2008	REVISED -					ILLINOIS FED. AID PROJECT				

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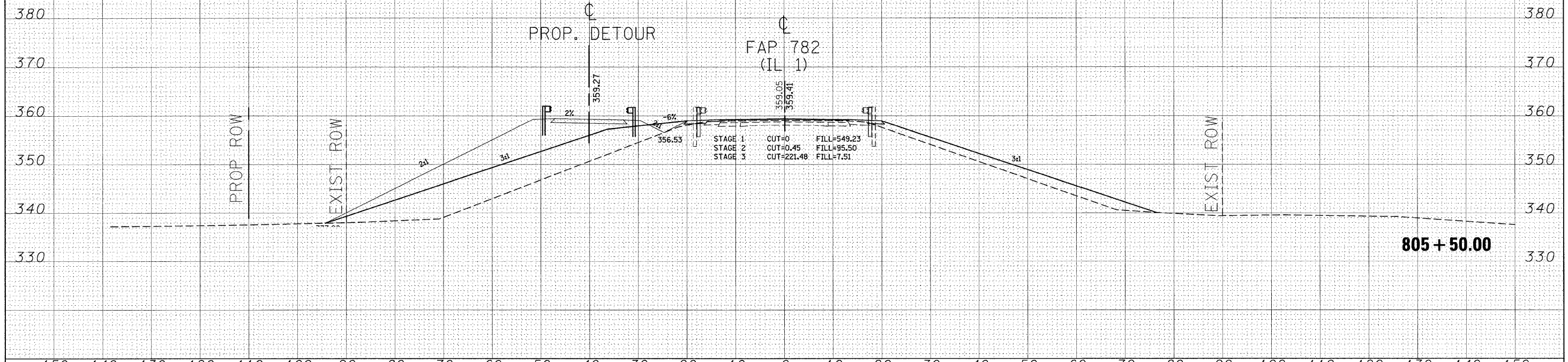
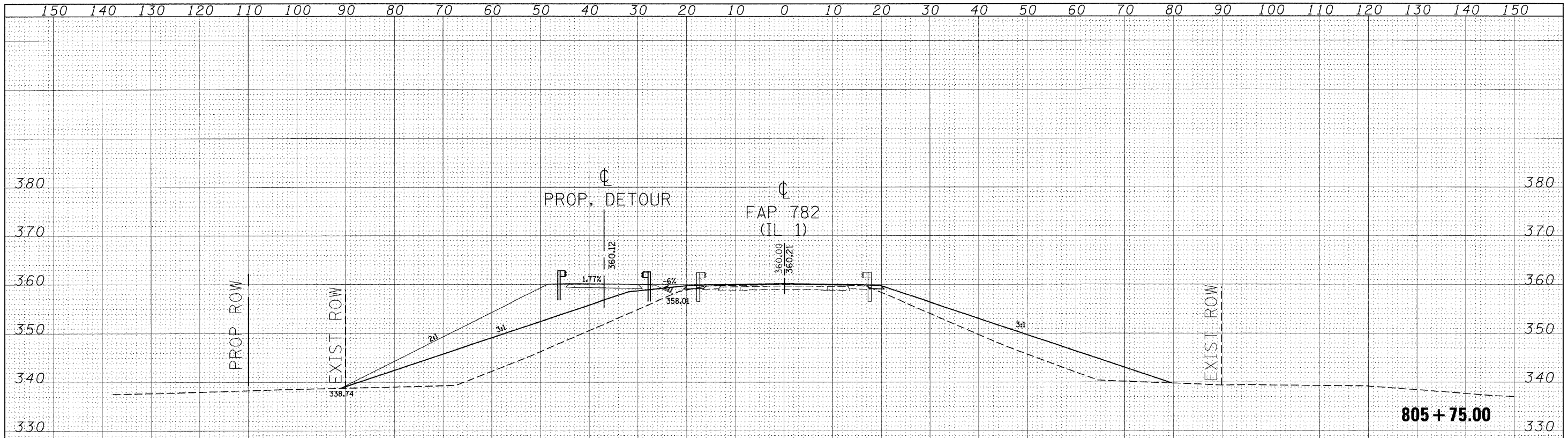
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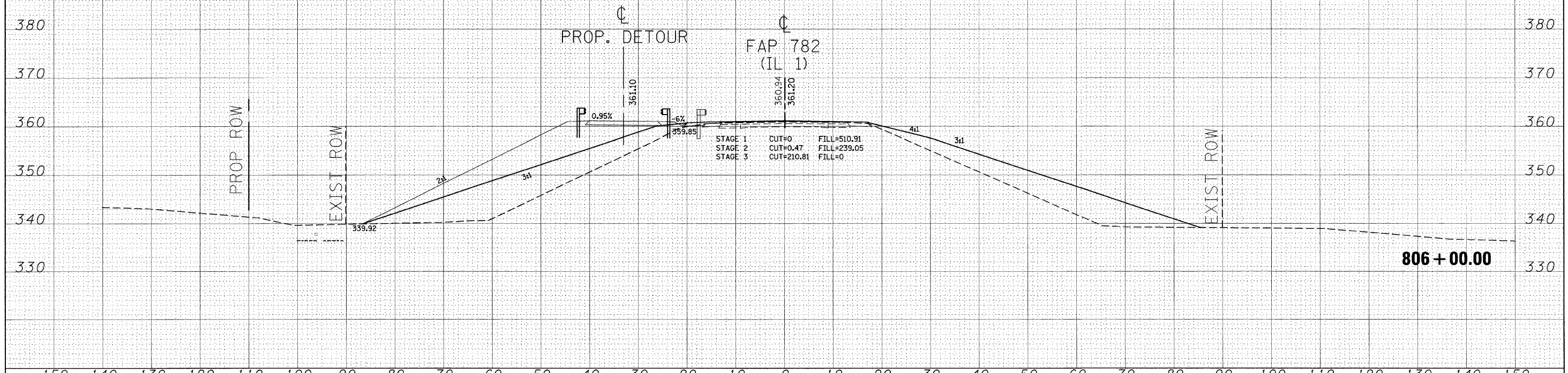
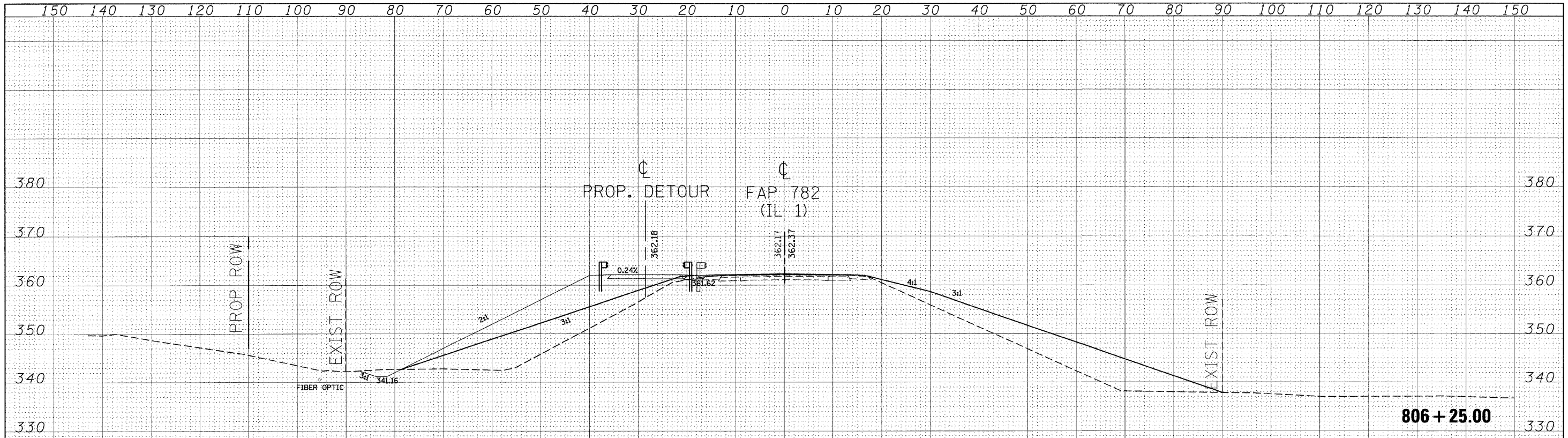
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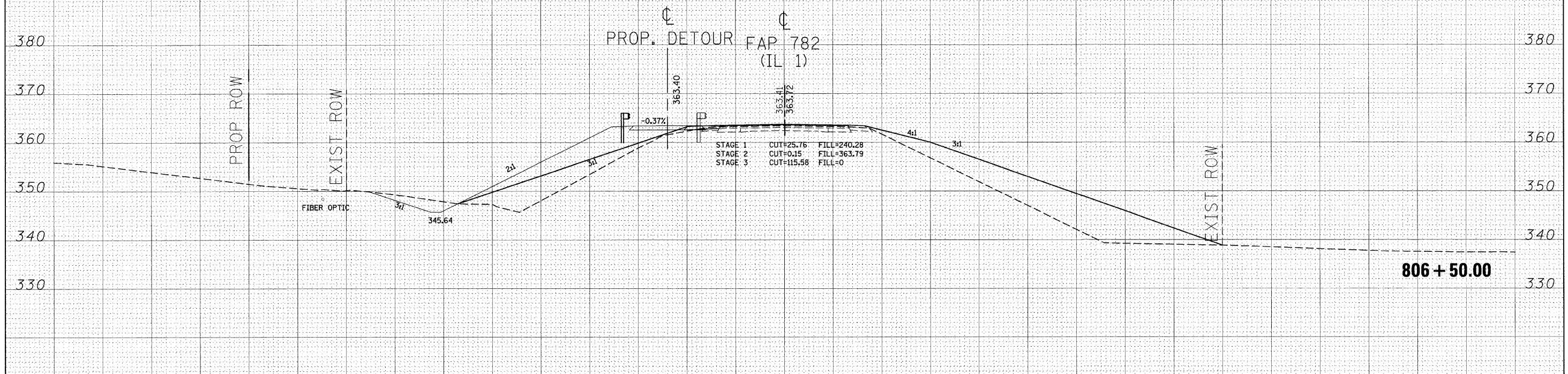
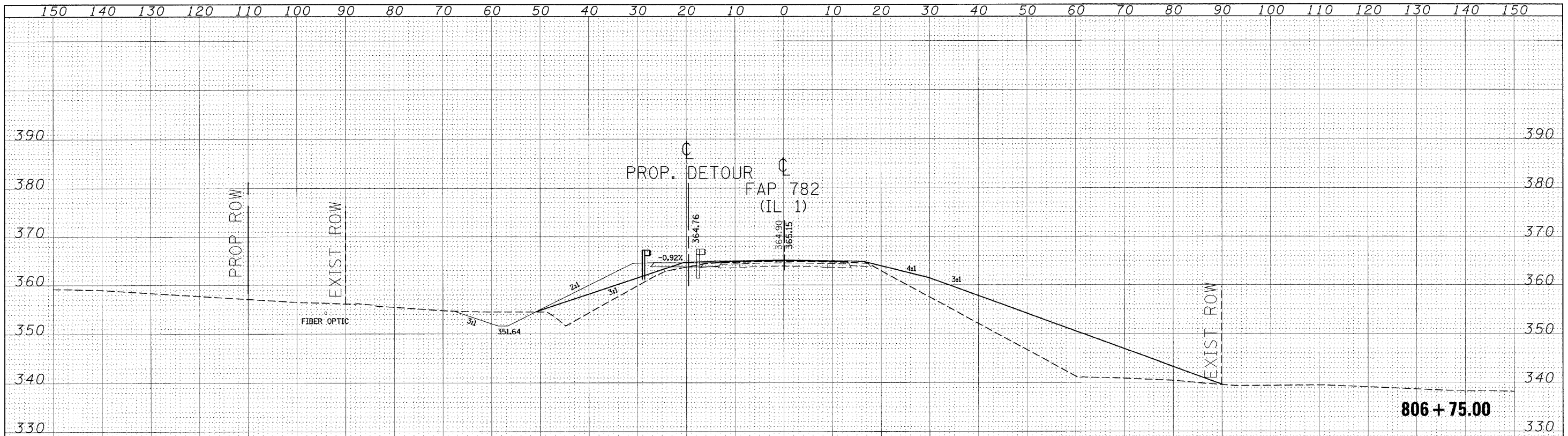
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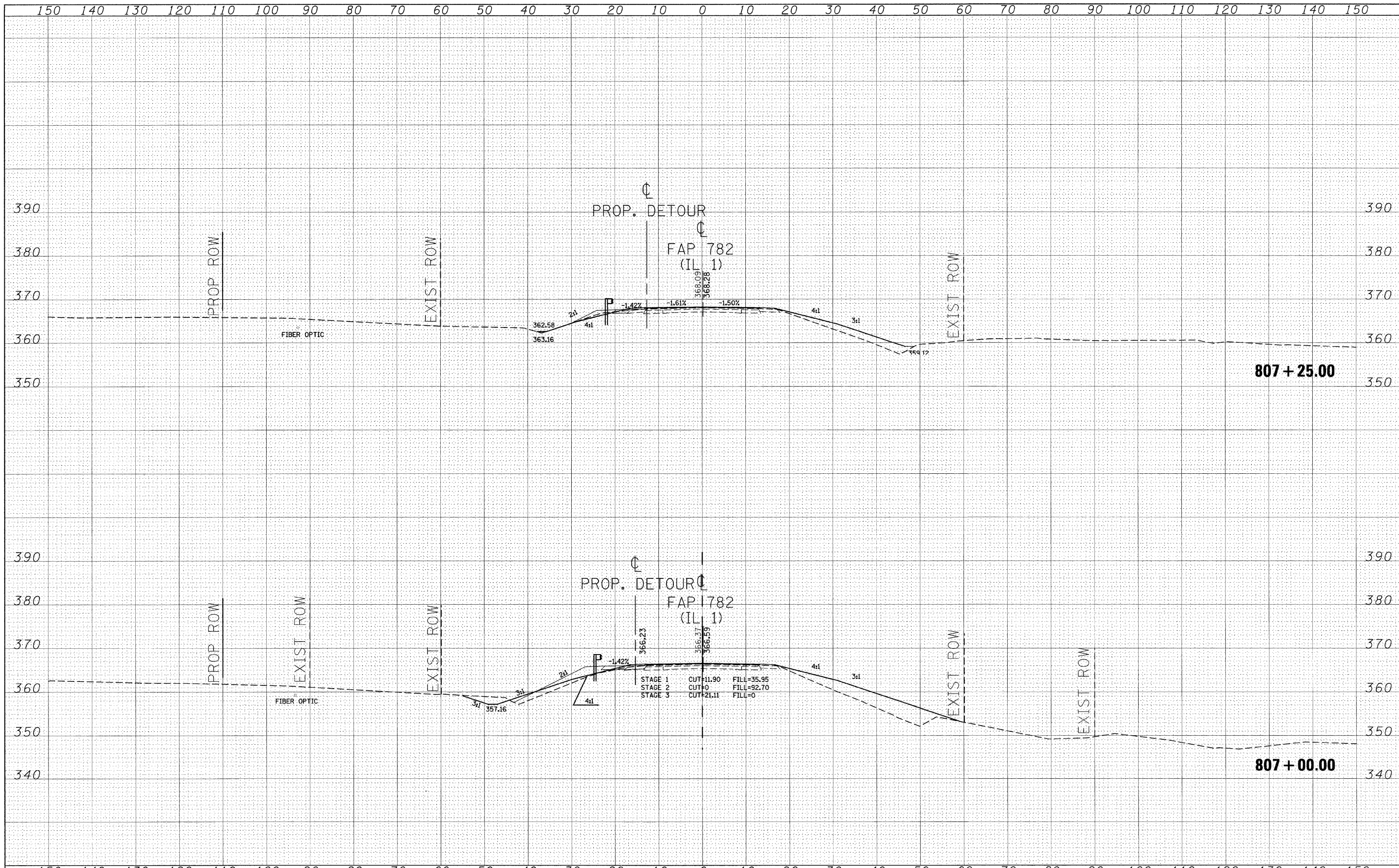
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PLT DATE = 6/18/2008	DATE -	REVISED -	REVISED -		FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT					

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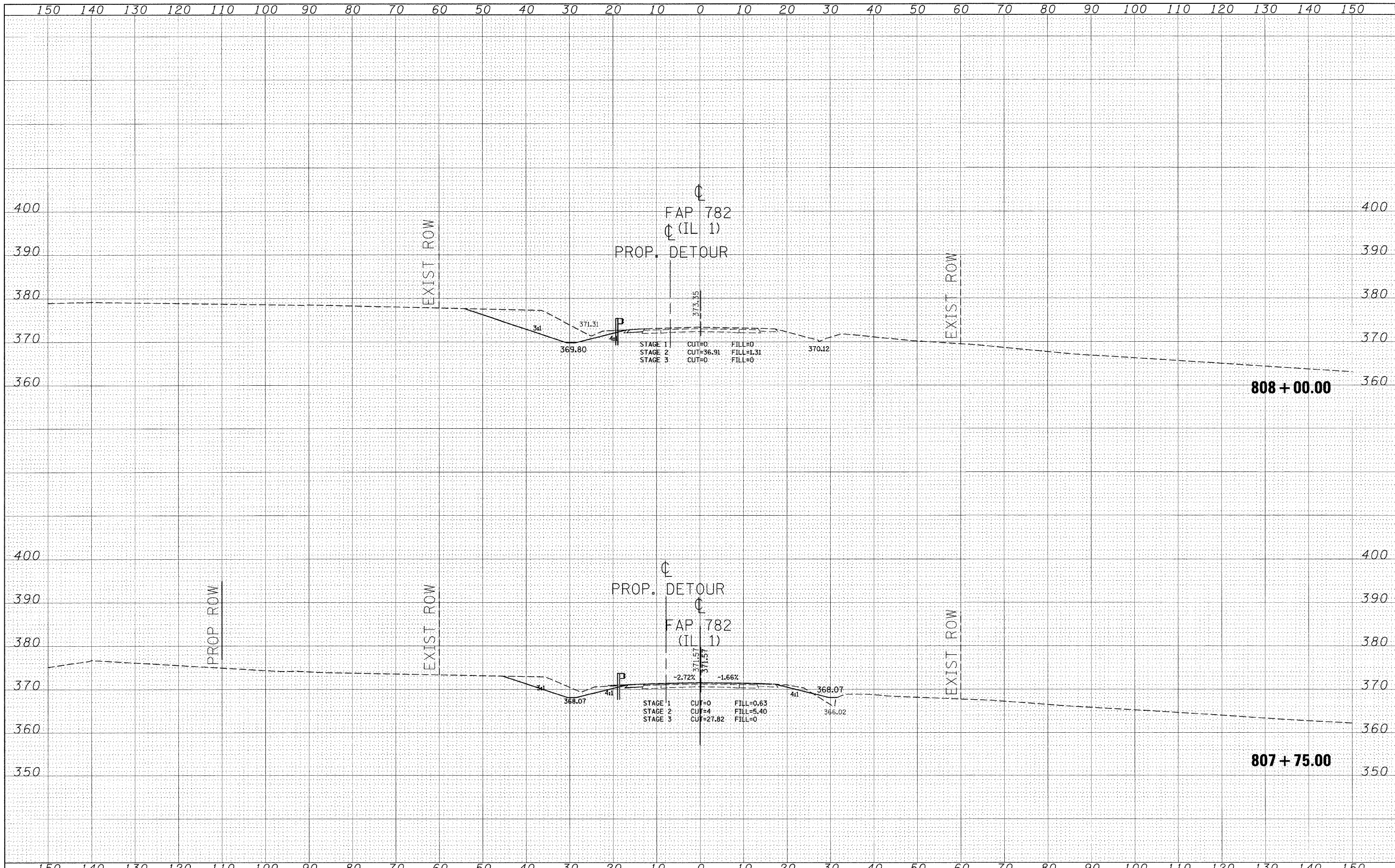
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		DATE -	REVISED -		FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				
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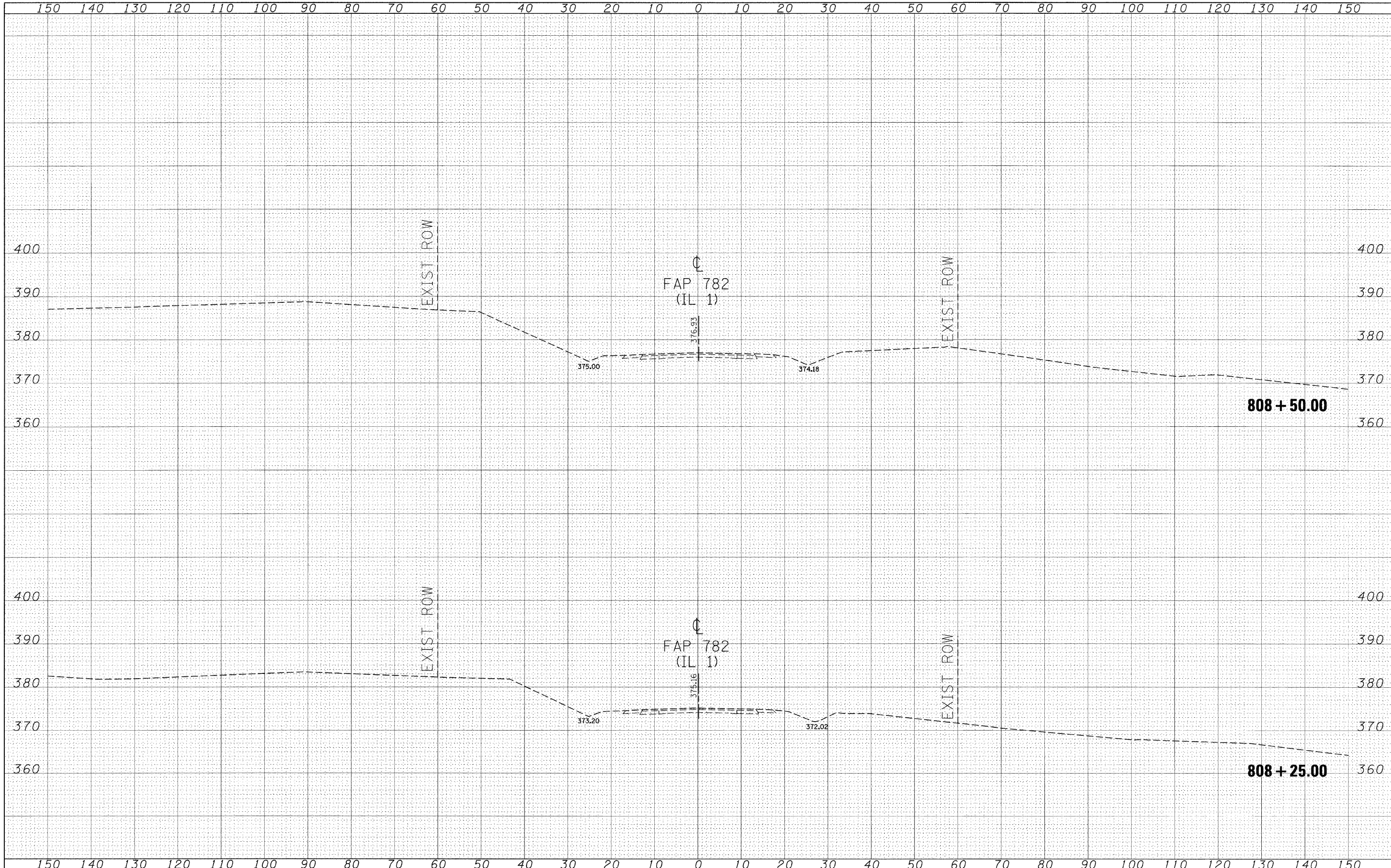
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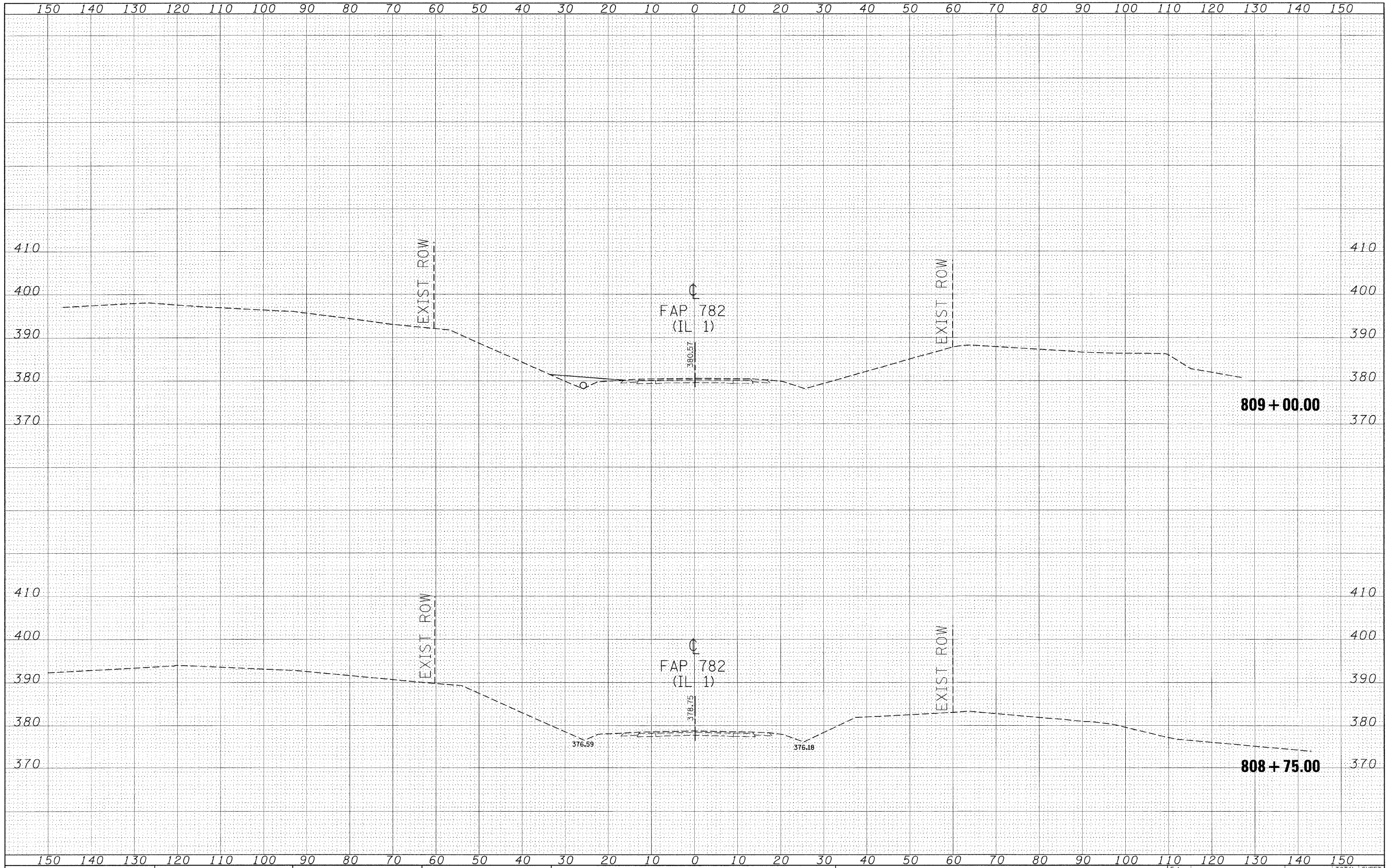
**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

SCALE: SHEET NO. 61 OF 62 SHEETS STA. 808+25.00 TO STA. 808+50.00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT			CONTRACT NO. 98887	

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DESIGNED -	REVISED -
DRAWN -	REVISED -
CHECKED -	REVISED -
DATE -	REVISED -

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

SCALE: SHEET NO. 62 OF 62 SHEETS STA. 808+75.00 TO STA. 809+00.00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
782	114B-2	98887	62	62
FED. ROAD DIST. NO.			ILLINOIS FED. AID PROJECT	
			CONTRACT NO. 98887	