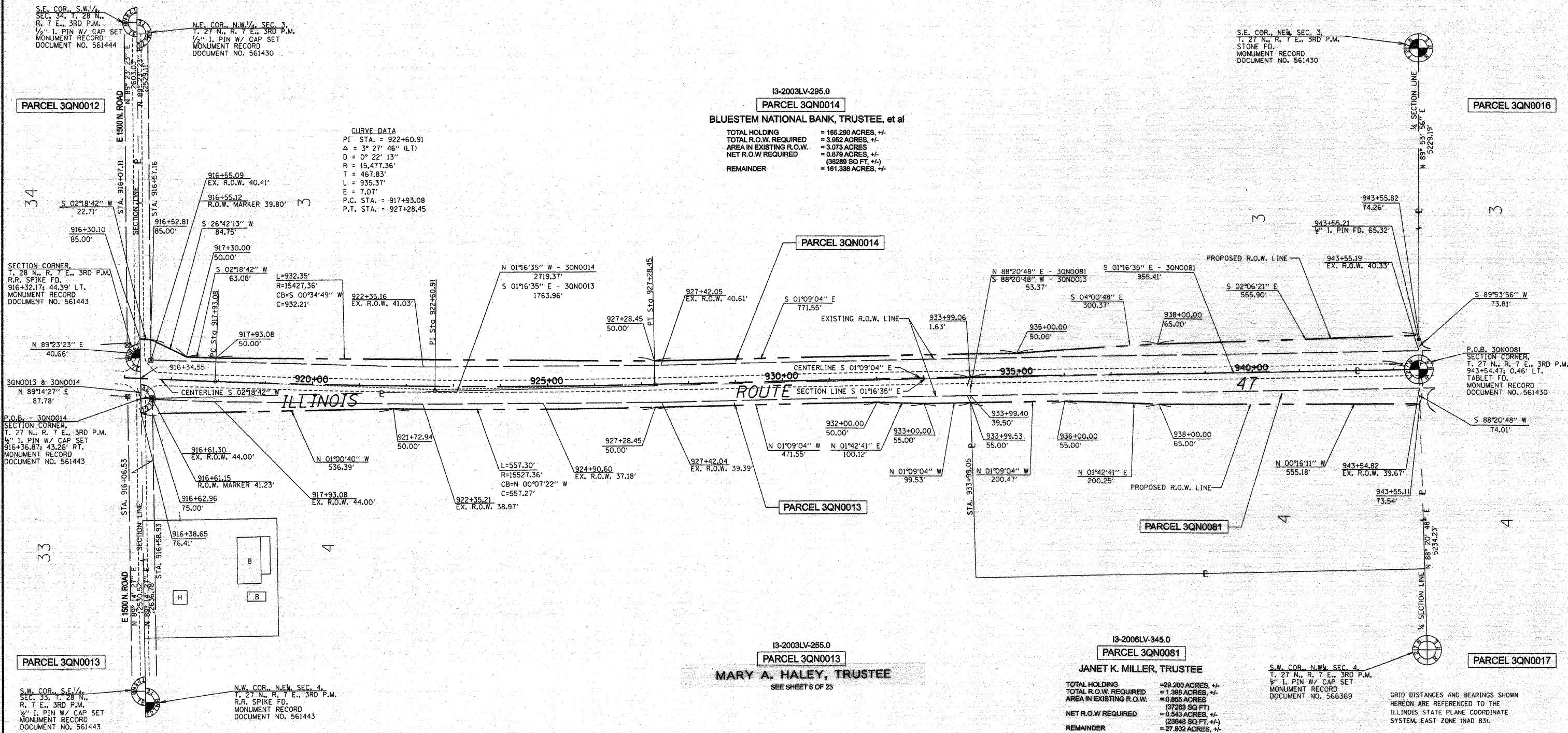


N.W. 1/4, SEC. 3, T. 27 N., R. 7 E., 3RD P.M.



13-2003LV-285.0
PARCEL 3QN0014
BLUESTEM NATIONAL BANK, TRUSTEE, et al
TOTAL HOLDING = 165.290 ACRES, +/-
TOTAL R.O.W. REQUIRED = 3.862 ACRES, +/-
AREA IN EXISTING R.O.W. = 3.073 ACRES
NET R.O.W. REQUIRED = 0.879 ACRES, +/-
(38288 SQ. FT. +/-)
REMAINDER = 161.338 ACRES, +/-

13-2003LV-255.0
PARCEL 3QN0013
MARY A. HALEY, TRUSTEE
SEE SHEET 8 OF 23

13-2006LV-345.0
PARCEL 3QN0081
JANET K. MILLER, TRUSTEE
TOTAL HOLDING = 29.200 ACRES, +/-
TOTAL R.O.W. REQUIRED = 1.398 ACRES, +/-
AREA IN EXISTING R.O.W. = 0.865 ACRES
(37263 SQ. FT.)
NET R.O.W. REQUIRED = 0.543 ACRES, +/-
(23648 SQ. FT. +/-)
REMAINDER = 27.802 ACRES, +/-

GRID DISTANCES AND BEARINGS SHOWN
HEREON ARE REFERENCED TO THE
ILLINOIS STATE PLANE COORDINATE
SYSTEM, EAST ZONE (NAD 83).
GRID TO GROUND FACTOR = 1.000052656
GROUND TO GRID FACTOR = 0.999947347

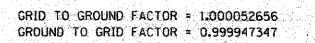
I, MICHAEL E. RAPIER, HEREBY CERTIFY THAT I AM A LICENSED PROFESSIONAL LAND SURVEYOR OF THE STATE OF ILLINOIS, THAT THE SURVEY OF FAP 326 (IL ROUTE 47) WAS MADE BY MICHAEL E. RAPIER SURVEYING, INC. UNDER MY DIRECTION, AND THAT THIS PLAT IS A CORRECT REPRESENTATION OF SAID SURVEY TO THE BEST OF MY KNOWLEDGE AND BELIEF, THAT ALL MONUMENTS AND MARKS ARE OF THE CHARACTER AND OCCUPY THE POSITION SHOWN THEREON AND ARE SUFFICIENT TO ENABLE THE SURVEY TO BE RETRACED.
"THIS PROFESSIONAL SERVICE CONFORMS TO THE CURRENT ILLINOIS MINIMUM STANDARDS FOR A BOUNDARY SURVEY"
MICHAEL E. RAPIER
8-29-2006
ILLINOIS PROFESSIONAL LAND SURVEYOR NO. 2917
EXPIRES: NOV. 30, 2008



N.E. 1/4, SEC. 4, T. 27 N., R. 7 E., 3RD P.M.

RIGHT OF WAY PLANS

ROUTE: F.A.P. 326 (IL ROUTE 47)
SECTION: (123,123X)RS-3, (124)RS-5 & (123)BR-3
PROJECT:
COUNTY: LIVINGSTON
JOB NO.: R-93-003-01
STA. 916+34.55 TO STA. 943+54.47
SCALE 1" = 100'

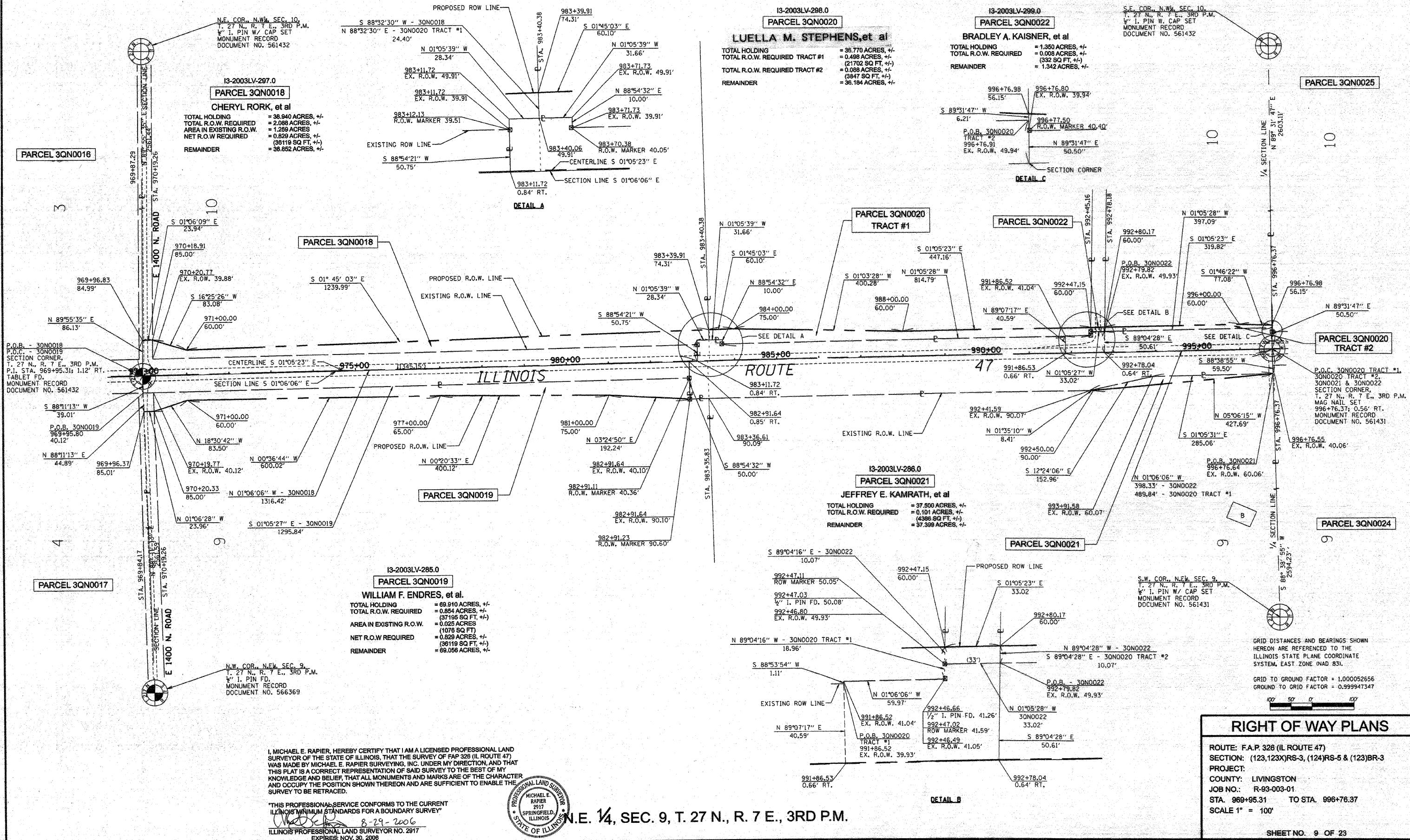


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PROFESSIONAL LAND SURVEYOR
MICHAEL E.
RAPIERE
2917
SPRINGFIELD,
ILLINOIS
STATE OF ILLINOIS

SHEET NO. 8 OF 23

N.W. 1/4, SEC. 10, T. 27 N., R. 7 E., 3RD P.M.



I, MICHAEL E. RAPIER, HEREBY CERTIFY THAT I AM A LICENSED PROFESSIONAL LAND SURVEYOR OF THE STATE OF ILLINOIS, THAT THE SURVEY OF FAP 328 (IL ROUTE 47) WAS MADE BY MICHAEL E. RAPIER SURVEYING, INC. UNDER MY DIRECTION, AND THAT THIS PLAT IS A CORRECT REPRESENTATION OF SAID SURVEY TO THE BEST OF MY KNOWLEDGE AND BELIEF, THAT ALL MONUMENTS AND MARKS ARE OF THE CHARACTER AND OCCUPY THE POSITION SHOWN THEREON AND ARE SUFFICIENT TO ENABLE THE SURVEY TO BE RETRACED.

"THIS PROFESSIONAL SERVICE CONFORMS TO THE CURRENT ILLINOIS MINIMUM STANDARDS FOR A BOUNDARY SURVEY"

8-29-2006

ILLINOIS PROFESSIONAL LAND SURVEYOR NO. 2917

EXPIRES: NOV. 30, 2008



N.E. 1/4, SEC. 9, T. 27 N., R. 7 E., 3RD P.M.

RIGHT OF WAY PLANS

ROUTE: F.A.P. 328 (IL ROUTE 47)

SECTION: (123,123)RS-3, (124)RS-5 & (123)BR-3

PROJECT: COUNTY: LIVINGSTON

JOB NO.: R-93-003-01

STA. 969+95.31 TO STA. 996+76.37

SCALE 1" = 100'

SHEET NO. 9 OF 23

N 



PROFESSIONAL LAND SURVEYOR
MICHAEL E. RAPIER
2917
SPRINGFIELD, ILLINOIS
STATE OF ILLINOIS

13-2003LV-288.0

PARCEL 3QN0026

JEFFREY E. KAMRATH

TOTAL HOLDING	= 40.000 ACRES, +/-
TOTAL R.O.W. REQUIRED	= 1.585 ACRES, +/-
AREA IN EXISTING R.O.W.	= 1.256 ACRES
NET R.O.W. REQUIRED	= 0.329 ACRES, +/-
	(14331 SQ FT, +/-)
REMAINDER	= 38.415 ACRES, +/-

S.W. COR., S.E. 1/4, SEC. 9,
T. 27 N., R. 7 E., 3RD P.M.
1/4" I. PIN W/ CAP SET
MONUMENT RECORD
DOCUMENT NO. 561434

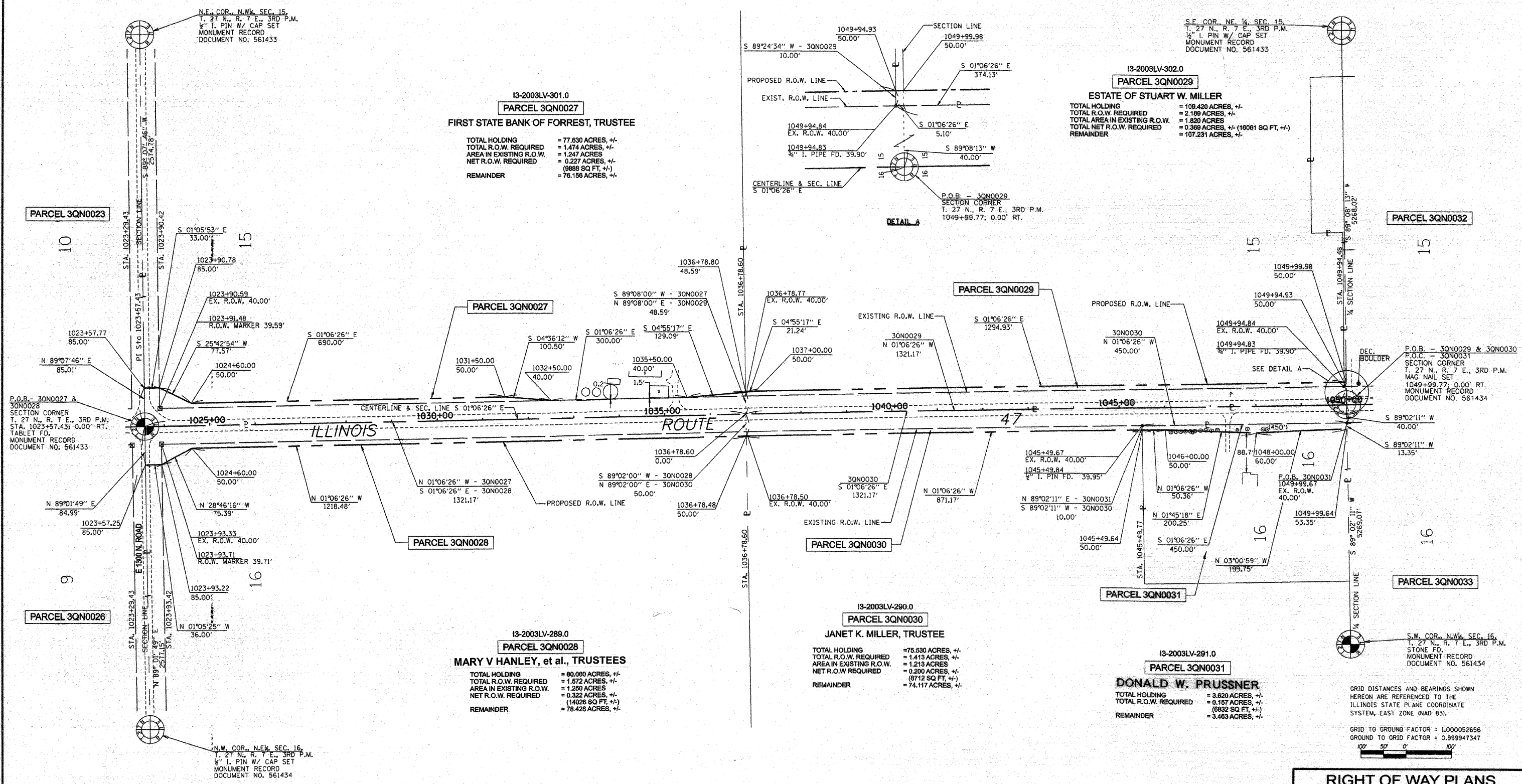
GRID DISTANCES AND BEARINGS SHOWN
HEREON ARE REFERENCED TO THE
ILLINOIS STATE PLANE COORDINATE
SYSTEM, EAST ZONE (NAD 83).

GRID TO GROUND FACTOR = 1.000052656
GROUND TO GRID FACTOR = 0.999947347

ROUTE: F.A.P. 326 (IL ROUTE 47)
SECTION: (123,123)RS-3, (124)RS-5 & (123)BR-3
PROJECT:
COUNTY: LIVINGSTON
JOB NO.: R-93-003-01
STA. 996+76.37 TO STA. 1023+57.43
SCALE 1" = 100'

SHEET NO. 10 OF 23

N.W. 1/4, SEC. 15, T. 27 N., R. 7 E., 3RD P.M.



I, MICHAEL E. RAPIER, HEREBY CERTIFY THAT I AM A LICENSED PROFESSIONAL LAND SURVEYOR OF THE STATE OF ILLINOIS, THAT THE SURVEY OF FAP 326 (IL ROUTE 47) WAS MADE BY MICHAEL E. RAPIER SURVEYING, INC. UNDER MY DIRECTION, AND THAT THIS PLAT IS A CORRECT REPRESENTATION OF SAID SURVEY TO THE BEST OF MY KNOWLEDGE AND BELIEF, THAT ALL MONUMENTS AND MARKS ARE OF THE CHARACTER AND OCCUPY THE POSITION SHOWN THEREON AND ARE SUFFICIENT TO ENABLE THE SURVEY TO BE RETRACED.

THIS PROFESSIONAL SERVICE CONFORMS TO THE CURRENT ILLINOIS MINIMUM STANDARDS FOR A BOUNDARY SURVEY

8-29-2006

ILLINOIS PROFESSIONAL LAND SURVEYOR NO. 2917 EXPIRES: NOV. 30, 2006



N.E. 1/4, SEC. 16, T. 27 N., R. 7 E., 3RD P.M.

RIGHT OF WAY PLANS

ROUTE: F.A.P. 326 (IL ROUTE 47)

SECTION: (123,123X)RS-3, (124)RS-5 & (123)BR-3

PROJECT:

COUNTY: LIVINGSTON

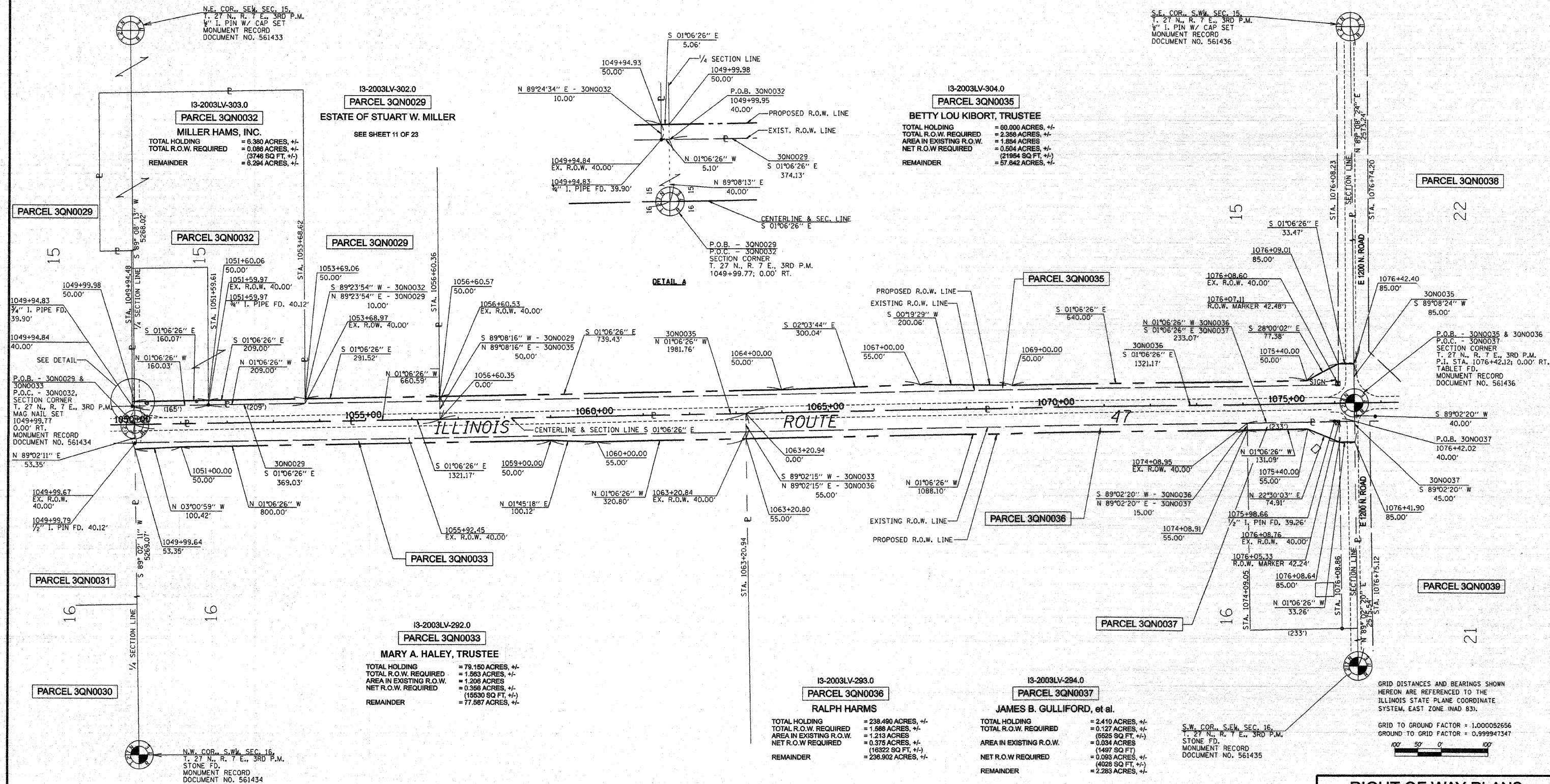
JOB NO.: R-93-003-01

STA. 1023+57.43 TO STA. 1049+99.77

SCALE 1" = 100'

SHEET NO. 11 OF 23

S.W. 1/4, SEC. 15, T. 27 N., R. 7 E., 3RD P.M.



I, MICHAEL E. RAPIER, HEREBY CERTIFY THAT I AM A LICENSED PROFESSIONAL LAND SURVEYOR OF THE STATE OF ILLINOIS, THAT THE SURVEY OF RAP 326 (IL ROUTE 47) WAS MADE BY MICHAEL E. RAPIER SURVEYING, INC. UNDER MY DIRECTION, AND THAT THIS PLAT IS A CORRECT REPRESENTATION OF SAID SURVEY TO THE BEST OF MY KNOWLEDGE AND BELIEF, THAT ALL MONUMENTS AND MARKS ARE OF THE CHARACTER AND OCCUPY THE POSITION SHOWN THEREON AND ARE SUFFICIENT TO ENABLE THE SURVEY TO BE RETRACED.

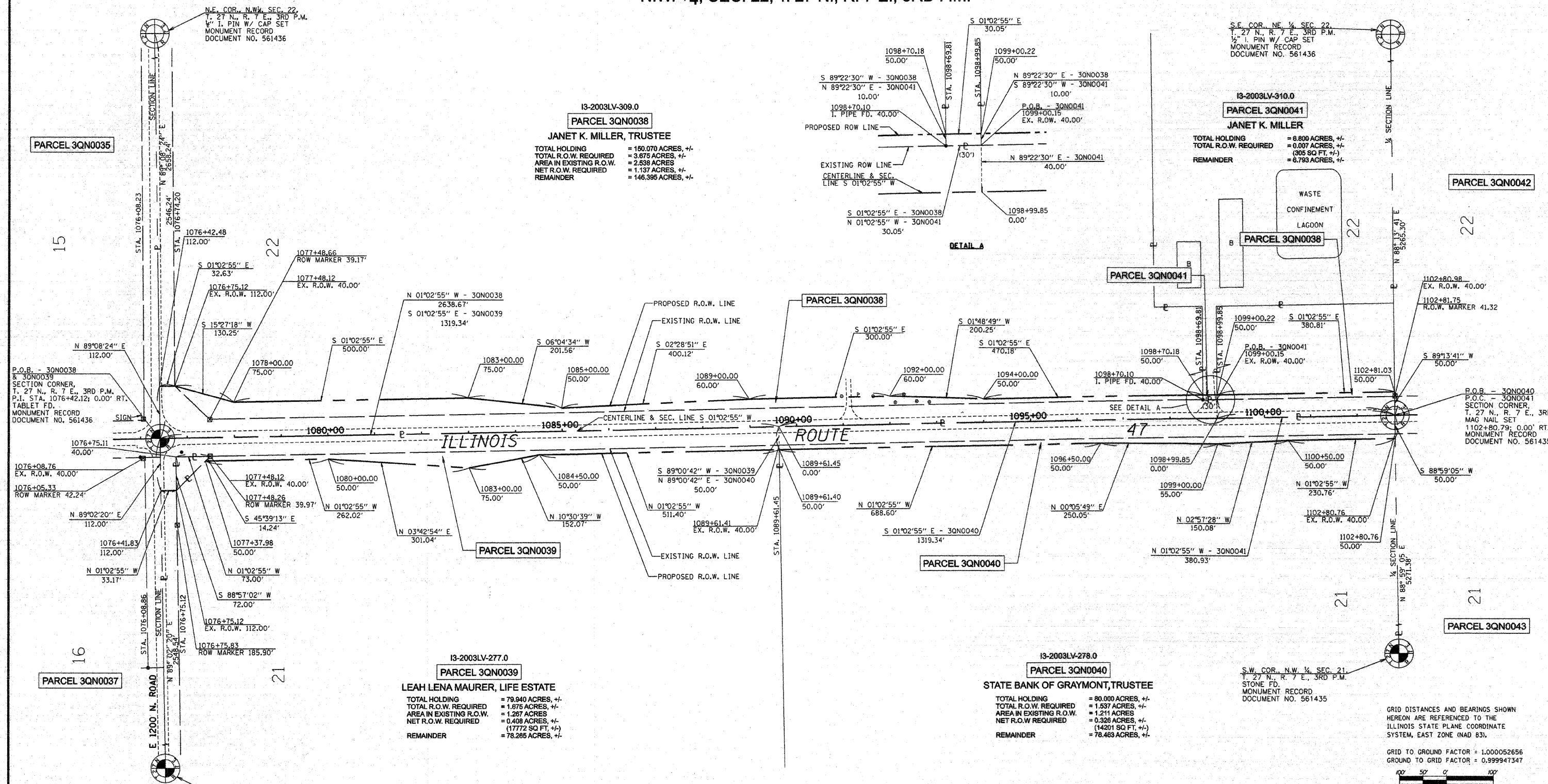
THIS PROFESSIONAL SERVICE CONFORMS TO THE CURRENT ILLINOIS MINIMUM STANDARDS FOR A BOUNDARY SURVEY
8-29-2006
ILLINOIS PROFESSIONAL LAND SURVEYOR NO. 2917
EXPIRES: NOV. 30, 2006



S.E. 1/4, SEC. 16, T. 27 N., R. 7 E., 3RD P.M.

RIGHT OF WAY PLANS
ROUTE: F.A.P. 326 (IL ROUTE 47)
SECTION: (123,123)RS-3, (124)RS-5 & (123)BR-3
PROJECT:
COUNTY: LIVINGSTON
JOB NO.: R-93-003-01
STA. 1049+99.77 TO STA. 1076+42.12
SCALE 1" = 100'
SHEET NO. 12 OF 23

N.W. 1/4, SEC. 22, T. 27 N., R. 7 E., 3RD P.M.



I, MICHAEL E. RAPIER, HEREBY CERTIFY THAT I AM A LICENSED PROFESSIONAL LAND SURVEYOR OF THE STATE OF ILLINOIS, THAT THE SURVEY OF FAP 326 (IL ROUTE 47) WAS MADE BY MICHAEL E. RAPIER SURVEYING, INC. UNDER MY DIRECTION, AND THAT THIS PLAT IS A CORRECT REPRESENTATION OF SAID SURVEY TO THE BEST OF MY KNOWLEDGE AND BELIEF, THAT ALL MONUMENTS AND MARKS ARE OF THE CHARACTER AND OCCUPY THE POSITION SHOWN THEREON AND ARE SUFFICIENT TO ENABLE THE SURVEY TO BE RETRACED.

THIS PROFESSIONAL SERVICE CONFORMS TO THE CURRENT ILLINOIS MINIMUM STANDARDS FOR A BOUNDARY SURVEY

8-29-2006

ILLINOIS PROFESSIONAL LAND SURVEYOR NO. 2917 EXPIRES: NOV. 30, 2008



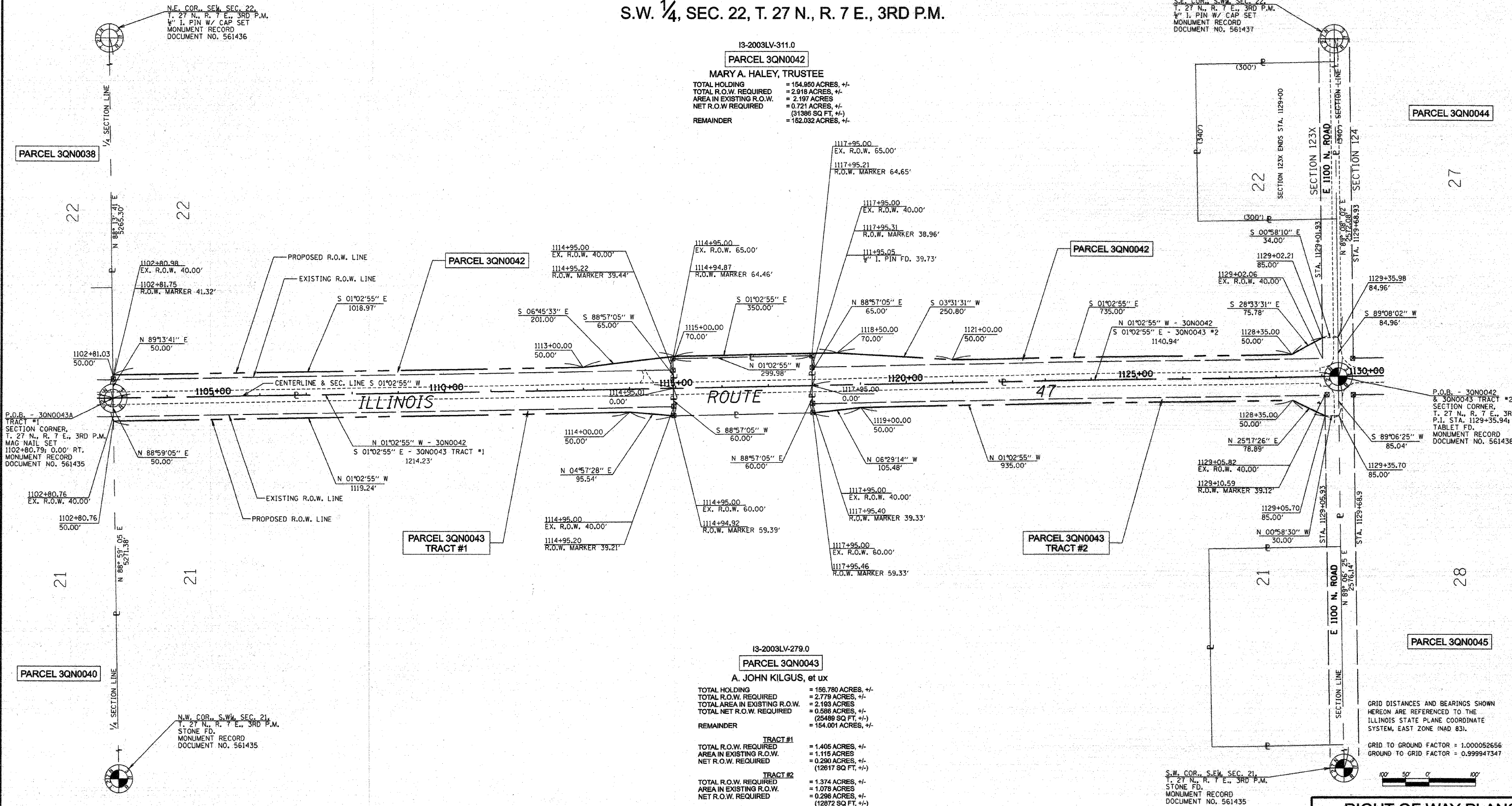
N.E. 1/4, SEC. 21, T. 27 N., R. 7 E., 3RD P.M.

RIGHT OF WAY PLANS

ROUTE: F.A.P. 326 (IL ROUTE 47)
SECTION: (123,123X)RS-3, (124)RS-5 & (123)BR-3
PROJECT:
COUNTY: LIVINGSTON
JOB NO.: R-93-003-01
STA. 1076+42.12 TO STA. 1102+80.79
SCALE 1" = 100'

SHEET NO. 13 OF 23

S.W. 1/4, SEC. 22, T. 27 N., R. 7 E., 3RD P.M.



N.E. COR., SEC. 22,
T. 27 N., R. 7 E., 3RD P.M.
1/4" I. PIN W/ CAP SET
MONUMENT RECORD
DOCUMENT NO. 561436

S.E. COR., S.W. SEC. 22,
T. 27 N., R. 7 E., 3RD P.M.
1/4" I. PIN W/ CAP SET
MONUMENT RECORD
DOCUMENT NO. 561437

P.O.B. - 30N0043A
TRACT #1
SECTION CORNER,
T. 27 N., R. 7 E., 3RD P.M.
MAG NAIL SET
1102+80.79; 0.00' RT.
MONUMENT RECORD
DOCUMENT NO. 561435

P.O.B. - 30N0042
& 30N0043 TRACT #2
SECTION CORNER,
T. 27 N., R. 7 E., 3RD P.M.
P.I. STA. 1129+35.94; 0.00' RT.
TABLET FD.
MONUMENT RECORD
DOCUMENT NO. 561438

N.W. COR., S.W. SEC. 21,
T. 27 N., R. 7 E., 3RD P.M.
STONE FD.
MONUMENT RECORD
DOCUMENT NO. 561435

S.W. COR., S.E. SEC. 21,
T. 27 N., R. 7 E., 3RD P.M.
STONE FD.
MONUMENT RECORD
DOCUMENT NO. 561435

13-2003LV-311.0
PARCEL 3QN0042
MARY A. HALEY, TRUSTEE
TOTAL HOLDING = 154.850 ACRES, +/-
TOTAL R.O.W. REQUIRED = 2.918 ACRES, +/-
AREA IN EXISTING R.O.W. = 2.197 ACRES
NET R.O.W. REQUIRED = 0.721 ACRES, +/-
(31386 SQ. FT. +/-)
REMAINDER = 152.032 ACRES, +/-

13-2003LV-279.0
PARCEL 3QN0043
A. JOHN KILGUS, et ux
TOTAL HOLDING = 156.780 ACRES, +/-
TOTAL R.O.W. REQUIRED = 2.778 ACRES, +/-
TOTAL AREA IN EXISTING R.O.W. = 2.183 ACRES
TOTAL NET R.O.W. REQUIRED = 0.595 ACRES, +/-
(25489 SQ. FT. +/-)
REMAINDER = 154.001 ACRES, +/-

TRACT #1
TOTAL R.O.W. REQUIRED = 1.405 ACRES, +/-
AREA IN EXISTING R.O.W. = 1.115 ACRES
NET R.O.W. REQUIRED = 0.290 ACRES, +/-
(12617 SQ. FT. +/-)

TRACT #2
TOTAL R.O.W. REQUIRED = 1.374 ACRES, +/-
AREA IN EXISTING R.O.W. = 1.078 ACRES
NET R.O.W. REQUIRED = 0.296 ACRES, +/-
(12872 SQ. FT. +/-)

I, MICHAEL E. RAPIER, HEREBY CERTIFY THAT I AM A LICENSED PROFESSIONAL LAND SURVEYOR OF THE STATE OF ILLINOIS, THAT THE SURVEY OF FAP 326 (IL ROUTE 47) WAS MADE BY MICHAEL E. RAPIER SURVEYING, INC. UNDER MY DIRECTION, AND THAT THIS PLAT IS A CORRECT REPRESENTATION OF SAID SURVEY TO THE BEST OF MY KNOWLEDGE AND BELIEF, THAT ALL MONUMENTS AND MARKS ARE OF THE CHARACTER AND OCCUPY THE POSITION SHOWN THEREON AND ARE SUFFICIENT TO ENABLE THE SURVEY TO BE RETRACED.

THIS PROFESSIONAL SERVICE CONFORMS TO THE CURRENT ILLINOIS MINIMUM STANDARDS FOR A BOUNDARY SURVEY

8-29-2006
ILLINOIS PROFESSIONAL LAND SURVEYOR NO. 2817
EXPIRES: NOV. 30, 2008



S.E. 1/4, SEC. 21, T. 27 N., R. 7 E., 3RD P.M.

GRID DISTANCES AND BEARINGS SHOWN
HEREON ARE REFERENCED TO THE
ILLINOIS STATE PLANE COORDINATE
SYSTEM, EAST ZONE (NAD 83).

GRID TO GROUND FACTOR = 1.000052656
GROUND TO GRID FACTOR = 0.999947347

RIGHT OF WAY PLANS

ROUTE: F.A.P. 326 (IL ROUTE 47)

SECTION: (123,123X)RS-3, (124)RS-5 & (123)BR-3

PROJECT:

COUNTY: LIVINGSTON

JOB NO.: R-93-003-01

STA. 1102+80.79 TO STA. 1129+35.94

SCALE 1" = 100'

SHEET NO. 14 OF 23

N.W. 1/4, SEC. 27, T. 27 N., R. 7 E., 3RD P.M.

N.E. COR., N.W. SEC. 27,
T. 27 N., R. 7 E., 3RD P.M.
1/4" I. PIN W/ CAP SET
MONUMENT RECORD
DOCUMENT NO. 561437

S.E. COR., N.W. SEC. 27,
T. 27 N., R. 7 E., 3RD P.M.
1/4" I. PIN W/ CAP SET
MONUMENT RECORD
DOCUMENT NO. 561437

13-2003LV-312.0
PARCEL 3QN0044
ALINE L. SCHROEDER, TRUSTEE
TOTAL HOLDING = 78.000 ACRES, +/-
TOTAL R.O.W. REQUIRED = 1.571 ACRES, +/-
AREA IN EXISTING R.O.W. = 1.248 ACRES
NET R.O.W. REQUIRED = 0.323 ACRES, +/-
(14049 SQ. FT., +/-)
REMAINDER = 76.429 ACRES, +/-

13-2003LV-313.0
PARCEL 3QN0046
ELEANOR DENKER, LIFE ESTATE
TOTAL HOLDING = 230.090 ACRES, +/-
TOTAL R.O.W. REQUIRED = 4.635 ACRES, +/-
AREA IN EXISTING R.O.W. = 3.674 ACRES
NET R.O.W. REQUIRED = 0.961 ACRES, +/-
(41861 SQ. FT., +/-)
REMAINDER = 225.455 ACRES, +/-

13-2003LV-282.0
PARCEL 3QN0045
ALICE MARIE MYER, TRUSTEE
TOTAL HOLDING = 20.000 ACRES, +/-
TOTAL R.O.W. REQUIRED = 1.888 ACRES, +/-
AREA IN EXISTING R.O.W. = 1.249 ACRES
NET R.O.W. REQUIRED = 0.437 ACRES, +/-
(19050 SQ. FT., +/-)
REMAINDER = 24.314 ACRES, +/-

13-2003LV-305.0
PARCEL 3QN0049
EARL KILGUS
TOTAL HOLDING = 40.000 ACRES, +/-
TOTAL R.O.W. REQUIRED = 0.759 ACRES, +/-
(33081 SQ. FT., +/-)
AREA IN EXISTING R.O.W. = 0.807 ACRES
(28449 SQ. FT.)
NET R.O.W. REQUIRED = 0.152 ACRES, +/-
(6612 SQ. FT., +/-)
REMAINDER = 39.241 ACRES, +/-

13-2003LV-307.0
PARCEL 3QN0047
JOHN KILGUS et ux
TOTAL HOLDING = 6.110 ACRES, +/-
TOTAL R.O.W. REQUIRED = 0.489 ACRES, +/-
(21299 SQ. FT., +/-)
AREA IN EXISTING R.O.W. = 0.391 ACRES
(17039 SQ. FT.)
NET R.O.W. REQUIRED = 0.098 ACRES, +/-
(4280 SQ. FT., +/-)
REMAINDER = 5.621 ACRES, +/-

13-2003LV-308.0
PARCEL 3QN0048
JOHN KILGUS
TOTAL HOLDING = 33.890 ACRES, +/-
TOTAL R.O.W. REQUIRED = 0.270 ACRES, +/-
(11761 SQ. FT., +/-)
AREA IN EXISTING R.O.W. = 0.216 ACRES
(9409 SQ. FT.)
NET R.O.W. REQUIRED = 0.054 ACRES, +/-
(2352 SQ. FT., +/-)
REMAINDER = 33.620 ACRES, +/-

I, MICHAEL E. RAPIER, HEREBY CERTIFY THAT I AM A LICENSED PROFESSIONAL LAND SURVEYOR OF THE STATE OF ILLINOIS, THAT THE SURVEY OF FAP 326 (IL ROUTE 47) WAS MADE BY MICHAEL E. RAPIER SURVEYING, INC. UNDER MY DIRECTION, AND THAT THIS PLAT IS A CORRECT REPRESENTATION OF SAID SURVEY TO THE BEST OF MY KNOWLEDGE AND BELIEF, THAT ALL MONUMENTS AND MARKS ARE OF THE CHARACTER AND OCCUPY THE POSITION SHOWN THEREON AND ARE SUFFICIENT TO ENABLE THE SURVEY TO BE RETRACED.

"THIS PROFESSIONAL SERVICE CONFORMS TO THE CURRENT ILLINOIS MINIMUM STANDARDS FOR A BOUNDARY SURVEY"
8-29-2006
ILLINOIS PROFESSIONAL LAND SURVEYOR NO. 2917
EXPIRES: NOV. 30, 2008



N.E. 1/4, SEC. 28, T. 27 N., R. 7 E., 3RD P.M.

GRID DISTANCES AND BEARINGS SHOWN
HEREON ARE REFERENCED TO THE
ILLINOIS STATE PLANE COORDINATE
SYSTEM, EAST ZONE (NAD 83).

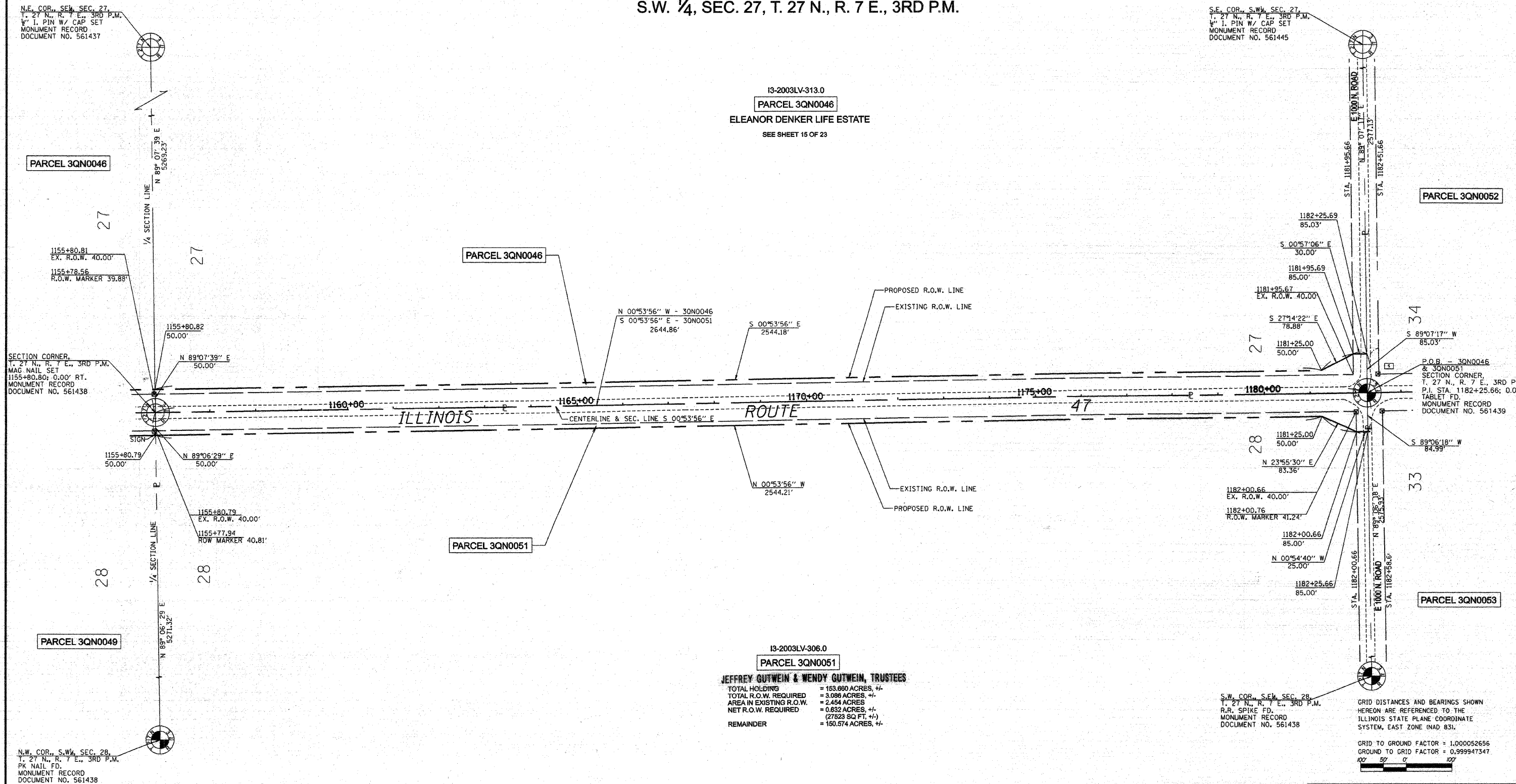
GRID TO GROUND FACTOR = 1.000052656
GROUND TO GRID FACTOR = 0.999947347

1" = 100'

RIGHT OF WAY PLANS

ROUTE: F.A.P. 326 (IL ROUTE 47)
SECTION: (123,123X)RS-3, (124)RS-5 & (123)BR-3
PROJECT:
COUNTY: LIVINGSTON
JOB NO.: R-93-003-01
STA. 1129+35.94 TO STA. 1155+80.80
SCALE 1" = 100'

S.W. 1/4, SEC. 27, T. 27 N., R. 7 E., 3RD P.M.



13-2003LV-313.0
PARCEL 3QN0046
ELEANOR DENKER LIFE ESTATE
SEE SHEET 15 OF 23

13-2003LV-306.0
PARCEL 3QN0051
JEFFREY GUTWEIN & WENDY GUTWEIN, TRUSTEES
TOTAL HOLDING = 153.690 ACRES, +/-
TOTAL R.O.W. REQUIRED = 3.086 ACRES, +/-
AREA IN EXISTING R.O.W. = 2.454 ACRES
NET R.O.W. REQUIRED = 0.632 ACRES, +/-
(27523 SQ. FT. +/-)
REMAINDER = 150.574 ACRES, +/-

S.E. 1/4, SEC. 28, T. 27 N., R. 7 E., 3RD P.M.

I, MICHAEL E. RAPIER, HEREBY CERTIFY THAT I AM A LICENSED PROFESSIONAL LAND SURVEYOR OF THE STATE OF ILLINOIS, THAT THE SURVEY OF FAP 326 (IL ROUTE 47) WAS MADE BY MICHAEL E. RAPIER SURVEYING, INC. UNDER MY DIRECTION, AND THAT THIS PLAT IS A CORRECT REPRESENTATION OF SAID SURVEY TO THE BEST OF MY KNOWLEDGE AND BELIEF, THAT ALL MONUMENTS AND MARKS ARE OF THE CHARACTER AND OCCUPY THE POSITION SHOWN THEREON AND ARE SUFFICIENT TO ENABLE THE SURVEY TO BE RETRACED.

THIS PROFESSIONAL SERVICE CONFORMS TO THE CURRENT ILLINOIS MINIMUM STANDARDS FOR A BOUNDARY SURVEY

8-29-2006
ILLINOIS PROFESSIONAL LAND SURVEYOR NO. 2917
EXPIRES: NOV. 30, 2008

MICHAEL E. RAPIER
2917
SPRINGFIELD, ILLINOIS
STATE OF ILLINOIS

RIGHT OF WAY PLANS

ROUTE: F.A.P. 326 (IL ROUTE 47)
SECTION: (123,123X)RS-3, (124)RS-5 & (123)BR-3
PROJECT:
COUNTY: LIVINGSTON
JOB NO.: R-93-003-01
STA. 1155+80.81 TO STA. 1182+25.66
SCALE 1" = 100'

SHEET NO. 16 OF 23

N.E. COR.. N.W¹/₄, SEC. 34,
T. 27 N., R. 7 E., 3RD P.M.
1/2" I. PIN W/ CAP SET
MONUMENT RECORD
DOCUMENT NO. 561445

S.E. COR., NE 1/4, SEC. 34,
T. 27 N., R. 7 E., 3RD P.M.
R.R. SPIKE FD.
MONUMENT RECORD
DOCUMENT NO. 561445

TOTAL HOLDING	= 11.520 ACRES, +/-
TOTAL R.O.W. REQUIRED	= 1.470 ACRES, +/-
AREA IN EXISTING R.O.W.	= 1.242 ACRES
NET R.O.W. REQUIRED	= 0.228 ACRES, +/- (9949 SQ. FT, +/-)
REMAINDER	= 10.050 ACRES, +/-

TOTAL HOLDING	= 146.790 ACRES, +/-
TOTAL R.O.W. REQUIRED	= 1.486 ACRES, +/-
AREA IN EXISTING R.O.W.	= 1.215 ACRES
NET R.O.W. REQUIRED	= 0.271 ACRES, +/- (11797 SQ FT, +/-)
REMAINDER	= 145.304 ACRES, +/-

P.O.B. PARCELS 30N0052
& 30N0053
P.O.C. - PARCELS 30N0054
& 30N0055
SECTION CORNER
T. 27 N., R. 7 E., 3RD P.M.
P.1. STA. 1182+25.66
0.00' RT.
TABLET FD.
MONUMENT RECORD
DOCUMENT NO. 561439

TOTAL HOLDING	= 69.400 ACRES, +/-
TOTAL R.O.W. REQUIRED	= 1.392 ACRES, +/-
AREA IN EXISTING R.O.W	= 1.249 ACRES
NET R.O.W. REQUIRED	= 0.143 ACRES, +/- (6223 SQ FT, +/-)
REMAINDER	= 68.008 ACRES, +/-

TOTAL HOLDING	= 2.875 ACRES, +/-
TOTAL R.O.W. REQUIRED	= 0.038 ACRES, +/- (1662 SQ FT, +/-)
REMAINDER	= 2.837 ACRES, +/-

CAL L. ZIMMERMAN, et al

TOTAL HOLDING	= 2.625 ACRES, +/-
TOTAL R.O.W. REQUIRED	= 0.034 ACRES, +/-
	(1495 SQ FT, +/-)
REMAINDER	= 2.591 ACRES, +/-

WILBUR JAMES HAAB, TRUSTEE, et al

TOTAL HOLDING	= 80.000 ACRES, +/-
TOTAL R.O.W. REQUIRED	= 1.480 ACRES, +/-
AREA IN EXISTING R.O.W.	= 1.215 ACRES
NET R.O.W. REQUIRED	= 0.245 ACRES, +/- (10651 SQ FT +/-)
REMAINDER	= 78.540 ACRES, +/-

S.W. COR., N.W¹/₄, SEC. 33,
T. 27 N., R. 7 E., 3RD P.M.
STONE FD.
MONUMENT RECORD
DOCUMENT NO. 561439

GRID DISTANCES AND BEARINGS SHOWN
HEREON ARE REFERENCED TO THE
ILLINOIS STATE PLANE COORDINATE
SYSTEM, EAST ZONE (NAD 83).

GRID TO GROUND FACTOR = 1.000052656
GROUND TO GRID FACTOR = 0.999947347

ROUTE: F.A.P. 326 (IL ROUTE 47)
SECTION: (123,123X)RS-3, (124)RS-5 & (123)BR-3
PROJECT:
COUNTY: LIVINGSTON
JOB NO.: R-93-003-01
STA. 1182+25.66 TO STA. 1208+71.78
SCALE 1" = 100'

SHEET NO. 17 OF 23

I, MICHAEL E. RAPIER, HEREBY CERTIFY THAT I AM A LICENSED PROFESSIONAL LAND SURVEYOR OF THE STATE OF ILLINOIS, THAT THE SURVEY OF FAP 326 (IL ROUTE 47) WAS MADE BY MICHAEL E. RAPIER SURVEYING, INC. UNDER MY DIRECTION, AND THAT THIS PLAT IS A CORRECT REPRESENTATION OF SAID SURVEY TO THE BEST OF MY KNOWLEDGE AND BELIEF, THAT ALL MONUMENTS AND MARKS ARE OF THE CHARACTER AND OCCUPY THE POSITION SHOWN THEREON AND ARE SUFFICIENT TO ENABLE THE SURVEY TO BE RETRACED.

THIS PROFESSIONAL SERVICE CONFORMS TO THE CURRENT
ILLINOIS MINIMUM STANDARDS FOR A BOUNDARY SURVEY"

 8-29-2006

ILLINOIS PROFESSIONAL LAND SURVEYOR NO. 2817
EXPIRES: NOV. 30, 2006

A circular professional seal for a land surveyor. The outer ring contains the text "PROFESSIONAL LAND SURVEYOR" at the top and "STATE OF ILLINOIS" at the bottom, separated by two small stars. The inner circle contains the name "MICHAEL E. RAPIER", the number "2917", and the location "SPRINGFIELD, ILLINOIS".

N.E. $\frac{1}{4}$, SEC. 33, T. 27 N., R. 7 E., 3RD P.M.

S.W. 1/4, SEC. 34, T. 27 N., R. 7 E., 3RD P.M.

N.E. COR., SEC. 34,
T. 27 N., R. 7 E., 3RD P.M.
R.R. SPIKE FD.
MONUMENT RECORD
DOCUMENT NO. 561445

I3-2003LV-316.0

PARCEL 3QN0058

VIRGINIA L. BLUNIER

TOTAL HOLDING = 19.900 ACRES, +/-
TOTAL R.O.W. REQUIRED = 0.800 ACRES, +/-
(34884 SQ FT, +/-)
AREA IN EXISTING R.O.W. = 0.610 ACRES
(26572 SQ FT)
NET R.O.W. REQUIRED = 0.190 ACRES, +/-
(8282 SQ FT, +/-)
REMAINDER = 19.100 ACRES, +/-

I3-2003LV-339.0

PARCEL 3QN0079

HOMER J. BLUNIER, et ux.

TOTAL HOLDING = 20.143 ACRES, +/-
TOTAL R.O.W. REQUIRED = 0.901 ACRES, +/-
(38234 SQ FT, +/-)
AREA IN EXISTING R.O.W. = 0.615 ACRES
(26795 SQ FT)
NET R.O.W. REQUIRED = 0.286 ACRES, +/-
(12439 SQ FT, +/-)
REMAINDER = 19.242 ACRES, +/-

I3-2003LV-317.0

PARCEL 3QN0059

HOMER JOHN BLUNIER

TOTAL HOLDING = 29.547 ACRES, +/-
TOTAL R.O.W. REQUIRED = 1.871 ACRES, +/-
AREA IN EXISTING R.O.W. = 1.227 ACRES
NET R.O.W. REQUIRED = 0.444 ACRES, +/-
(19347 SQ FT, +/-)
REMAINDER = 27.876 ACRES, +/-

CURVE DATA

PI STA. = 1228+27.19
Δ = 0° 30' 50" (RT)
D = 0° 04' 46"
R = 72,108.13'
T = 323.36'
L = 646.73'
E = 0.73'
P.C. STA. = 1225+03.83
P.T. STA. = 1231+50.56

S.E. COR., S.W. SEC. 34,
T. 27 N., R. 7 E., 3RD P.M.
MAG NAIL SET
MONUMENT RECORD
DOCUMENT NO. 561445

N.E. COR., N.W. SEC. 3,
T. 26 N., R. 7 E., 3RD P.M.
R.R. SPIKE FD.
MONUMENT RECORD
DOCUMENT NO. 453845

PARCEL 3QN0056

1208+71.87
EX. R.O.W. 39.42'
1208+73.34
R.O.W. MARKER 40.10'
N 89°07'44" E
50.58'

P.O.B. PARCELS
3QN0058 & 3QN0060
P.O.C. PARCELS
3QN0061 & 3QN0079
SECTION CORNER
T. 27 N., R. 7 E., 3RD P.M.
PK NAIL FD.
1208+71.78
0.57' RT.
MONUMENT RECORD
DOCUMENT NO. 561439

PARCEL 3QN0058

1208+71.90
50.00'

CENTERLINE S 01°00'43" E

1208+71.66
50.00'

1208+71.68
EX. R.O.W. 40.58'

1208+74.08
R.O.W. MARKER 40.00'

1208+71.68
EX. R.O.W. 40.58'

1208+74.08
R.O.W. MARKER 40.00'

1208+71.68
EX. R.O.W. 40.58'

1208+74.08
R.O.W. MARKER 40.00'

1208+71.68
EX. R.O.W. 40.58'

1208+74.08
R.O.W. MARKER 40.00'

1208+71.68
EX. R.O.W. 40.58'

1208+74.08
R.O.W. MARKER 40.00'

1208+71.68
EX. R.O.W. 40.58'

1208+74.08
R.O.W. MARKER 40.00'

1208+71.68
EX. R.O.W. 40.58'

1208+74.08
R.O.W. MARKER 40.00'

1208+71.68
EX. R.O.W. 40.58'

1208+74.08
R.O.W. MARKER 40.00'

1208+71.68
EX. R.O.W. 40.58'

1208+74.08
R.O.W. MARKER 40.00'

1208+71.68
EX. R.O.W. 40.58'

1208+74.08
R.O.W. MARKER 40.00'

I, MICHAEL E. RAPIER, HEREBY CERTIFY THAT I AM A LICENSED PROFESSIONAL LAND SURVEYOR OF THE STATE OF ILLINOIS, THAT THE SURVEY OF FAP 326 (IL ROUTE 47) WAS MADE BY MICHAEL E. RAPIER SURVEYING, INC. UNDER MY DIRECTION, AND THAT THIS PLAT IS A CORRECT REPRESENTATION OF SAID SURVEY TO THE BEST OF MY KNOWLEDGE AND BELIEF, THAT ALL MONUMENTS AND MARKS ARE OF THE CHARACTER AND OCCUPY THE POSITION SHOWN THEREON AND ARE SUFFICIENT TO ENABLE THE SURVEY TO BE RETRACED.

"THIS PROFESSIONAL SERVICE CONFORMS TO THE CURRENT ILLINOIS MINIMUM STANDARDS FOR A BOUNDARY SURVEY"

8-29-2006
ILLINOIS PROFESSIONAL LAND SURVEYOR NO. 2917
EXPIRES: NOV. 30, 2006



S.E. 1/4, SEC. 33, T. 27 N., R. 7 E., 3RD P.M.

I3-2003LV-323.0

PARCEL 3QN0061

BECKER FAMILY TRUST

TOTAL HOLDING = 28.200 ACRES, +/-
TOTAL R.O.W. REQUIRED = 1.047 ACRES, +/-
AREA IN EXISTING R.O.W. = 0.838 ACRES
(36424 SQ FT)
NET R.O.W. REQUIRED = 0.211 ACRES, +/-
(9208 SQ FT, +/-)
REMAINDER = 27.153 ACRES, +/-

I3-2003LV-324.0

PARCEL 3QN0062

WILLIAM C. BECKER II, et al

TOTAL HOLDING = 18.940 ACRES, +/-
TOTAL R.O.W. REQUIRED = 0.370 ACRES, +/-
AREA IN EXISTING R.O.W. = 0.291 ACRES
(12675 SQ FT)
NET R.O.W. REQUIRED = 0.079 ACRES, +/-
(3457 SQ FT, +/-)
REMAINDER = 18.570 ACRES, +/-
PERMANENT EASEMENT = 0.224 ACRES, +/-
(9774 SQ FT, +/-)
PURPOSE: DRAINAGE MAINTENANCE

I3-2003LV-325.0

PARCEL 3QN0063

LOUIS D. KNAPP

TOTAL HOLDING = 4.700 ACRES, +/-
TOTAL R.O.W. REQUIRED = 0.146 ACRES, +/-
(6342 SQ FT, +/-)
AREA IN EXISTING R.O.W. = 0.034 ACRES
(1476 SQ FT)
NET R.O.W. REQUIRED = 0.112 ACRES, +/-
(4886 SQ FT, +/-)
REMAINDER = 4.554 ACRES, +/-

N.W. COR., N.E. 1/4 SEC. 4,
T. 26 N., R. 7 E., 3RD P.M.
R.R. SPIKE FD.
MONUMENT RECORD
DOCUMENT NO. 561429

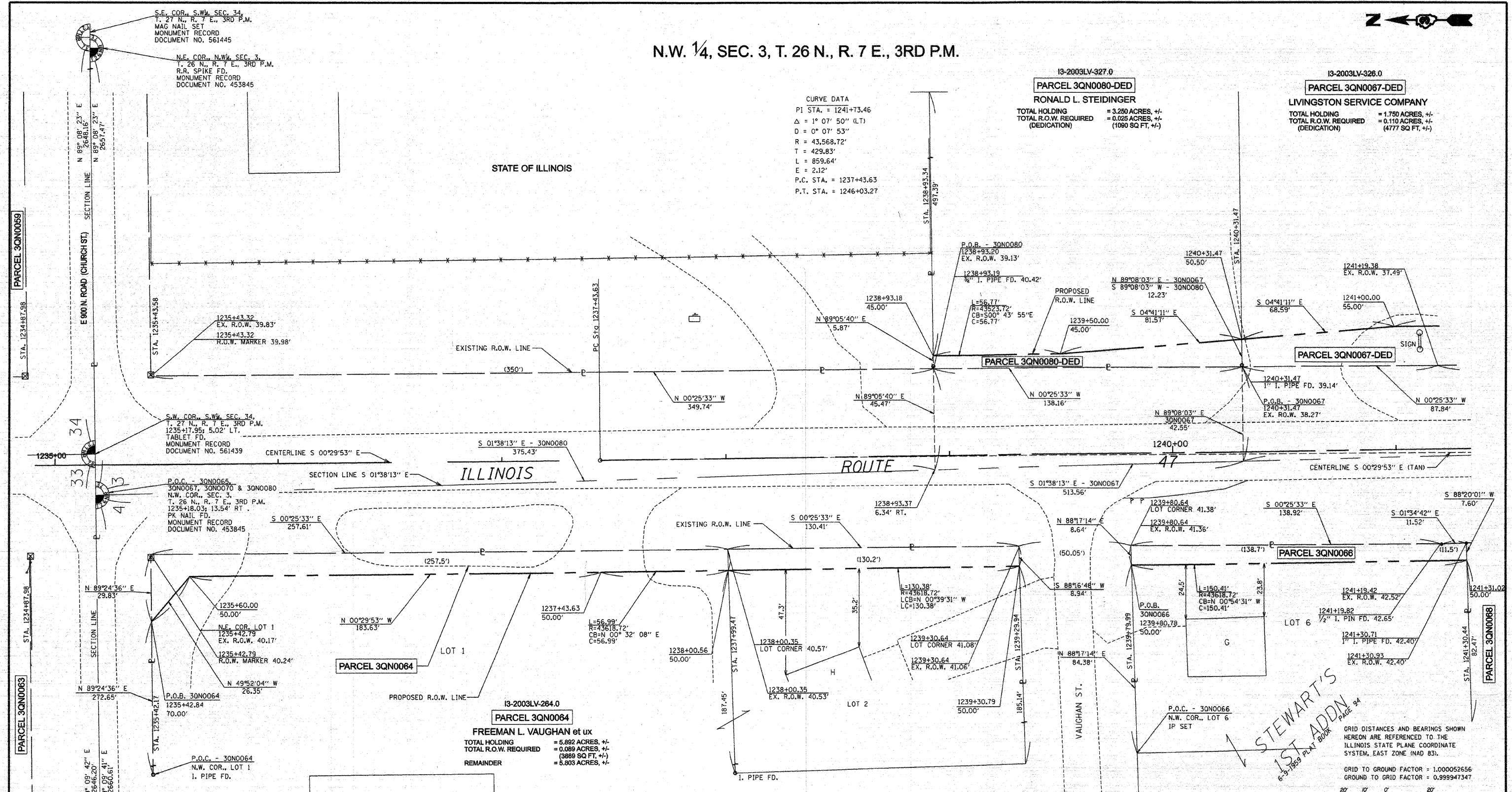
GRID DISTANCES AND BEARINGS SHOWN
HEREON ARE REFERENCED TO THE
ILLINOIS STATE PLANE COORDINATE
SYSTEM, EAST ZONE (NAD 83).

GRID TO GROUND FACTOR = 1.000052656
GROUND TO GRID FACTOR = 0.999947347

RIGHT OF WAY PLANS

ROUTE: F.A.P. 326 (IL ROUTE 47)
SECTION: (123,123X)RS-3, (124)RS-5 & (123)BR-3
PROJECT:
COUNTY: LIVINGSTON
JOB NO.: R-93-003-01
STA. 1208+71.78 TO STA. 1235+17.96
SCALE 1" = 100'

N.W. 1/4, SEC. 3, T. 26 N., R. 7 E., 3RD P.M.



CURVE DATA
PI STA. = 1241+73.46
Δ = 1° 07' 50" (LT)
D = 0° 07' 53"
R = 43,568.72'
T = 429.83'
L = 859.64'
E = 2.12'
P.C. STA. = 1237+43.63
P.T. STA. = 1246+03.27

13-2003LV-327.0
PARCEL 3QN0080-DED
RONALD L. STEIDINGER
TOTAL HOLDING = 3.250 ACRES, +/-
TOTAL R.O.W. REQUIRED = 0.025 ACRES, +/-
(DEDICATION) (1080 SQ. FT. +/-)

13-2003LV-326.0
PARCEL 3QN0067-DED
LIVINGSTON SERVICE COMPANY
TOTAL HOLDING = 1.750 ACRES, +/-
TOTAL R.O.W. REQUIRED = 0.110 ACRES, +/-
(DEDICATION) (4777 SQ. FT. +/-)

13-2003LV-264.0
PARCEL 3QN0064
FREEMAN L. VAUGHAN et ux
TOTAL HOLDING = 5.892 ACRES, +/-
TOTAL R.O.W. REQUIRED = 0.089 ACRES, +/-
(3889 SQ. FT. +/-)
REMAINDER = 5.803 ACRES, +/-

13-2003LV-266.0
PARCEL 3QN0066
JESSIE MYGATT, et al
TOTAL HOLDING = 28850 SQ. FT. +/-
TOTAL R.O.W. REQUIRED = 1212 SQ. FT. +/-
REMAINDER = 27738 SQ. FT. +/-

I, MICHAEL E. RAPIER, HEREBY CERTIFY THAT I AM A LICENSED PROFESSIONAL LAND SURVEYOR OF THE STATE OF ILLINOIS, THAT THE SURVEY OF FAP 326 (IL ROUTE 47) WAS MADE BY MICHAEL E. RAPIER SURVEYING, INC. UNDER MY DIRECTION, AND THAT THIS PLAT IS A CORRECT REPRESENTATION OF SAID SURVEY TO THE BEST OF MY KNOWLEDGE AND BELIEF, THAT ALL MONUMENTS AND MARKS ARE OF THE CHARACTER AND OCCUPY THE POSITION SHOWN THEREON AND ARE SUFFICIENT TO ENABLE THE SURVEY TO BE RETRACED.

"THIS PROFESSIONAL SERVICE CONFORMS TO THE CURRENT ILLINOIS MINIMUM STANDARDS FOR A BOUNDARY SURVEY"

8-29-2006
ILLINOIS PROFESSIONAL LAND SURVEYOR NO. 2917
EXPIRES: NOV. 30, 2006



N.E. 1/4, SEC. 4, T. 26 N., R. 7 E., 3RD P.M.

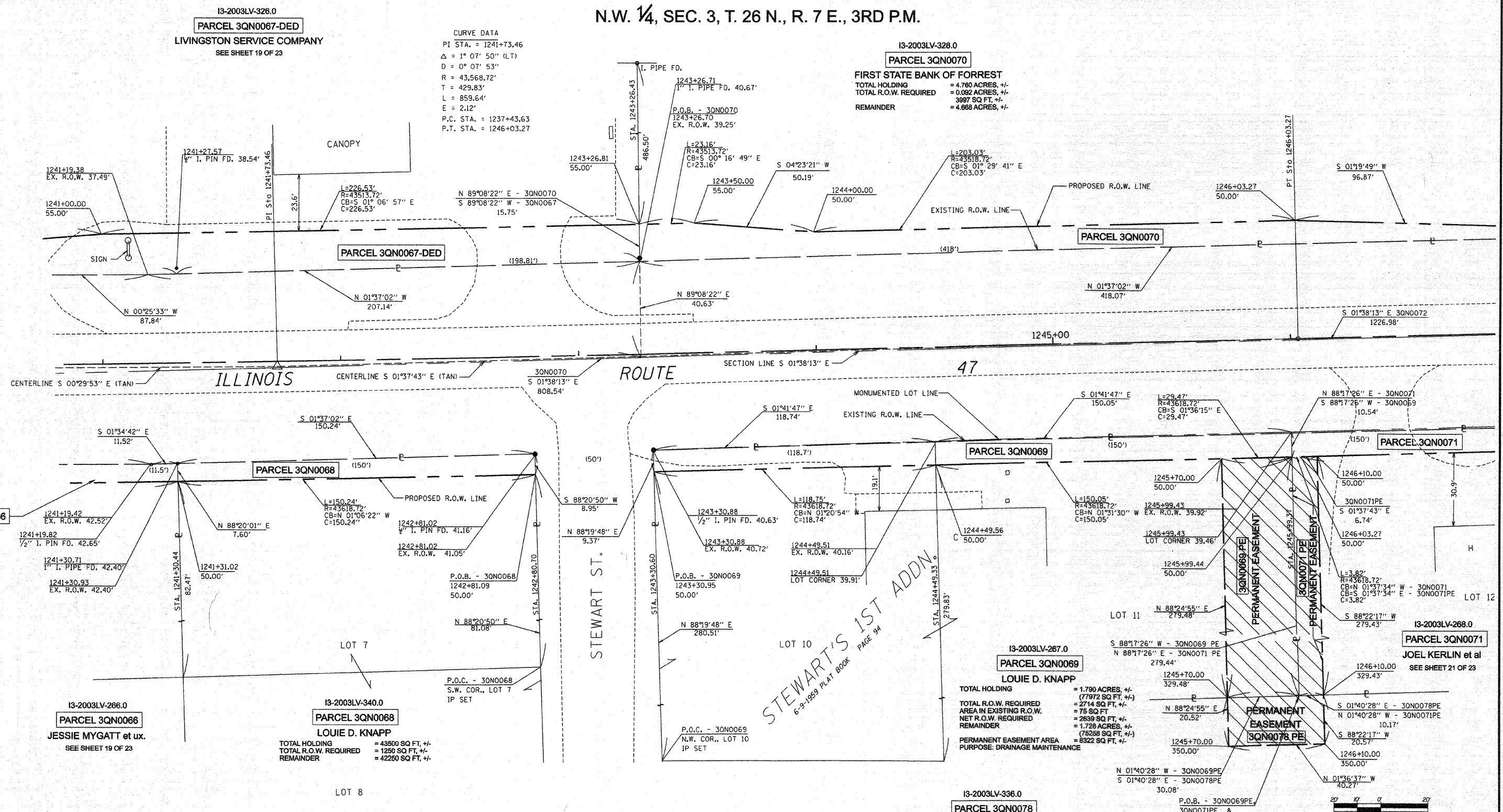
STEWART'S
1ST ADDN
6-9-1959 PLAT BOOK PAGE 94

RIGHT OF WAY PLANS

ROUTE: F.A.P. 326 (IL ROUTE 47)
SECTION: (123,123X)RS-3, (124)RS-5 & (123)BR-3
PROJECT:
COUNTY: LIVINGSTON
JOB NO.: R-93-003-01
STA. 1235+17.95 TO STA. 1241+00
SCALE 1" = 20'

SHEET NO. 19 OF 23

N.W. 1/4, SEC. 3, T. 26 N., R. 7 E., 3RD P.M.



I, MICHAEL E. RAPIER, HEREBY CERTIFY THAT I AM A LICENSED PROFESSIONAL LAND SURVEYOR OF THE STATE OF ILLINOIS, THAT THE SURVEY OF FAP 326 (IL ROUTE 47) WAS MADE BY MICHAEL E. RAPIER SURVEYING, INC. UNDER MY DIRECTION, AND THAT THIS PLAT IS A CORRECT REPRESENTATION OF SAID SURVEY TO THE BEST OF MY KNOWLEDGE AND BELIEF, THAT ALL MONUMENTS AND MARKS ARE OF THE CHARACTER AND OCCUPY THE POSITION SHOWN THEREON AND ARE SUFFICIENT TO ENABLE THE SURVEY TO BE RETRACED.

"THIS PROFESSIONAL SERVICE CONFORMS TO THE CURRENT ILLINOIS MINIMUM STANDARDS FOR A BOUNDARY SURVEY"

[Signature] 8-29-2006
ILLINOIS PROFESSIONAL LAND SURVEYOR NO. 2917
EXPIRES NOV. 30, 2006



N.E. 1/4, SEC. 4, T. 26 N., R. 7 E., 3RD P.M.

13-2003LV-267.0
PARCEL 3QN0069
LOUIE D. KNAPP
TOTAL HOLDING = 1.790 ACRES, +/-
TOTAL R.O.W. REQUIRED = 2714 SQ. FT., +/-
NET R.O.W. REQUIRED = 75 SQ. FT.
REMAINDER = 2639 SQ. FT., +/-
PERMANENT EASEMENT AREA = 1.728 ACRES, +/-
PURPOSE: DRAINAGE MAINTENANCE

13-2003LV-336.0
PARCEL 3QN0078
PRAIRIE CENTRAL C.U.S.D. #8
TOTAL HOLDING = 26.250 ACRES, +/-
PERMANENT EASEMENT AREA = 827 SQ. FT., +/-
PURPOSE: DRAINAGE MAINTENANCE

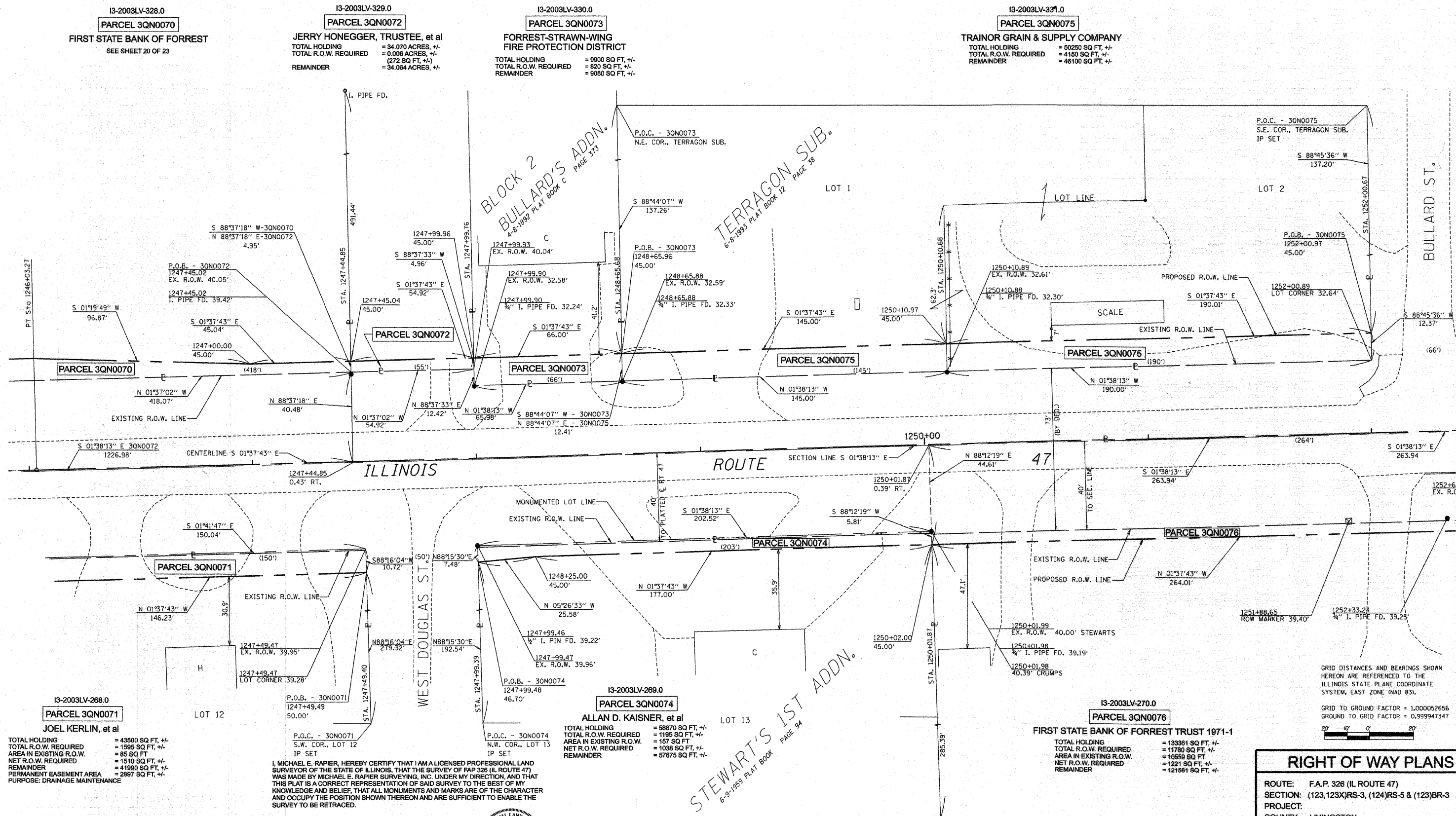
RIGHT OF WAY PLANS

ROUTE: F.A.P. 326 (IL ROUTE 47)
SECTION: (123,123X)RS-3, (124)RS-5 & (123)BR-3
PROJECT:
COUNTY: LIVINGSTON
JOB NO.: R-93-003-01
STA. 1241+00 TO STA. 1246+00
SCALE 1" = 20'

GRID DISTANCES AND BEARINGS SHOWN HEREON ARE REFERENCED TO THE ILLINOIS STATE PLANE COORDINATE SYSTEM, EAST ZONE (NAD 83).
GRID TO GROUND FACTOR = 1.000052656
GROUND TO GRID FACTOR = 0.999947347

SHEET NO. 20 OF 23

N.W. 1/4, SEC. 3, T. 26 N., R. 7 E., 3RD P.M.



I, MICHAEL E. RAPIER, HEREBY CERTIFY THAT I AM A LICENSED PROFESSIONAL LAND SURVEYOR OF THE STATE OF ILLINOIS, THAT THE SURVEY OF MAP 326 (IL ROUTE 47) WAS MADE BY MICHAEL E. RAPIER SURVEYING, INC. UNDER MY DIRECTION, AND THAT THIS PLAT IS A CORRECT REPRESENTATION OF SAID SURVEY TO THE BEST OF MY KNOWLEDGE AND BELIEF, THAT ALL MONUMENTS AND MARKS ARE OF THE CHARACTER AND OCCUPY THE POSITION SHOWN THEREON AND ARE SUFFICIENT TO ENABLE THE SURVEY TO BE RETRACED.

PROFESSIONAL LAND SURVEYOR
MICHAEL E. RAPIER
2917 SPRINGFIELD
ILLINOIS
STATE OF ILLINOIS

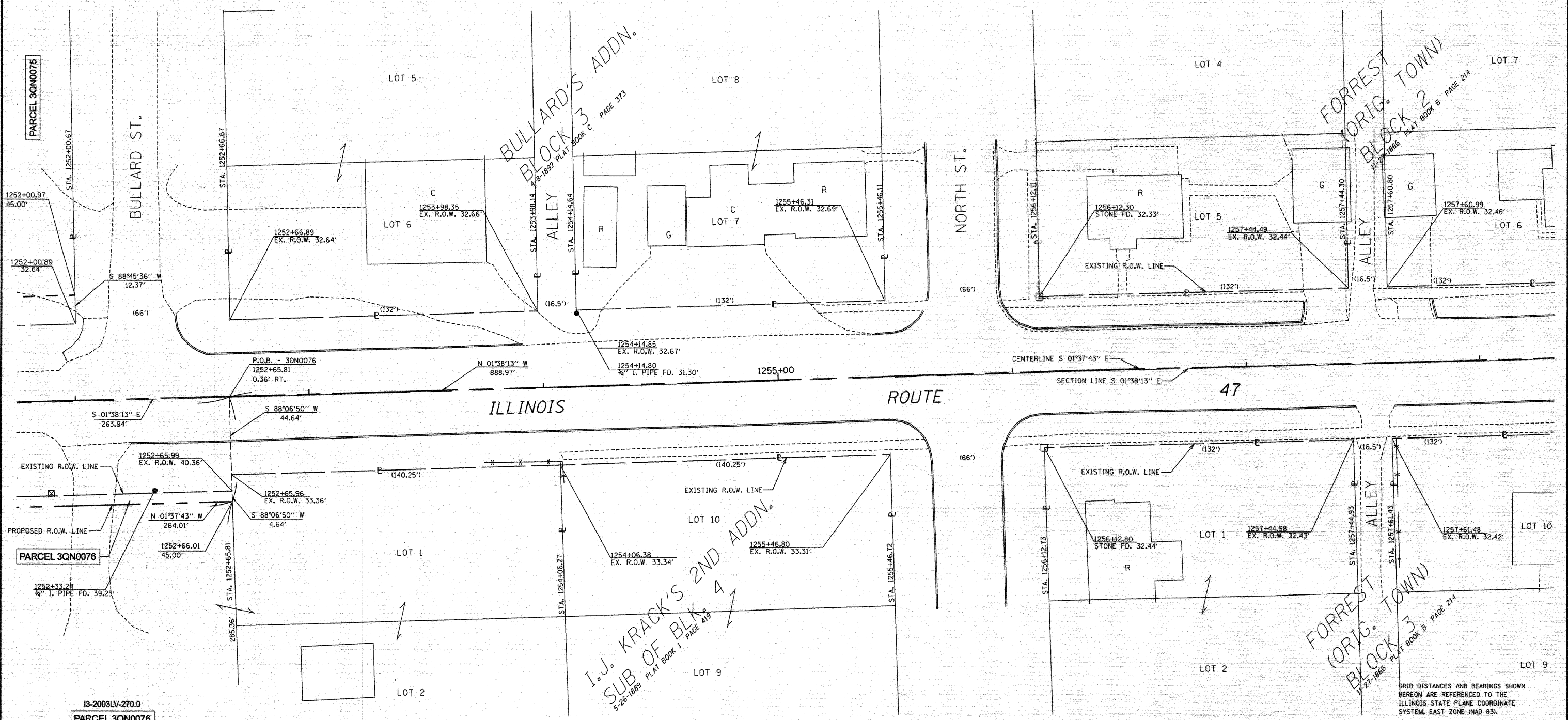
THIS PROFESSIONAL SERVICE CONFORMS TO THE CURRENT ILLINOIS MINIMUM STANDARDS FOR A BOUNDARY SURVEY

8-29-2006
ILLINOIS PROFESSIONAL LAND SURVEYOR NO. 2917
EXPIRES: NOV. 30, 2006

N.E. 1/4, SEC. 4, T. 26 N., R. 7 E., 3RD P.M.

RIGHT OF WAY PLANS	
ROUTE:	F.A.P. 326 (IL ROUTE 47)
SECTION:	(123,123X)RS-3, (124)RS-5 & (123)BR-3
PROJECT:	
COUNTY:	LIVINGSTON
JOB NO.:	R-93-003-01
STA. 1246+00	TO STA. 1252+00
SCALE 1" = 20'	
SHEET NO. 21 OF 23	

N.W. 1/4, SEC. 3, T. 26 N., R. 7 E., 3RD P.M.



I3-2003LV-270.0
PARCEL 3QN0076
FIRST STATE BANK OF FORREST, TRUST 1971-1
SEE SHEET 21 OF 23

I, MICHAEL E. RAPIER, HEREBY CERTIFY THAT I AM A LICENSED PROFESSIONAL LAND SURVEYOR OF THE STATE OF ILLINOIS, THAT THE SURVEY OF FAP 328 (IL ROUTE 47) WAS MADE BY MICHAEL E. RAPIER SURVEYING, INC. UNDER MY DIRECTION, AND THAT THIS PLAT IS A CORRECT REPRESENTATION OF SAID SURVEY TO THE BEST OF MY KNOWLEDGE AND BELIEF, THAT ALL MONUMENTS AND MARKS ARE OF THE CHARACTER AND OCCUPY THE POSITION SHOWN THEREON AND ARE SUFFICIENT TO ENABLE THE SURVEY TO BE RETRACED.

"THIS PROFESSIONAL SERVICE CONFORMS TO THE CURRENT ILLINOIS MINIMUM STANDARDS FOR A BOUNDARY SURVEY"

8-29-2006
ILLINOIS PROFESSIONAL LAND SURVEYOR NO. 2917
EXPIRES NOV. 30, 2008



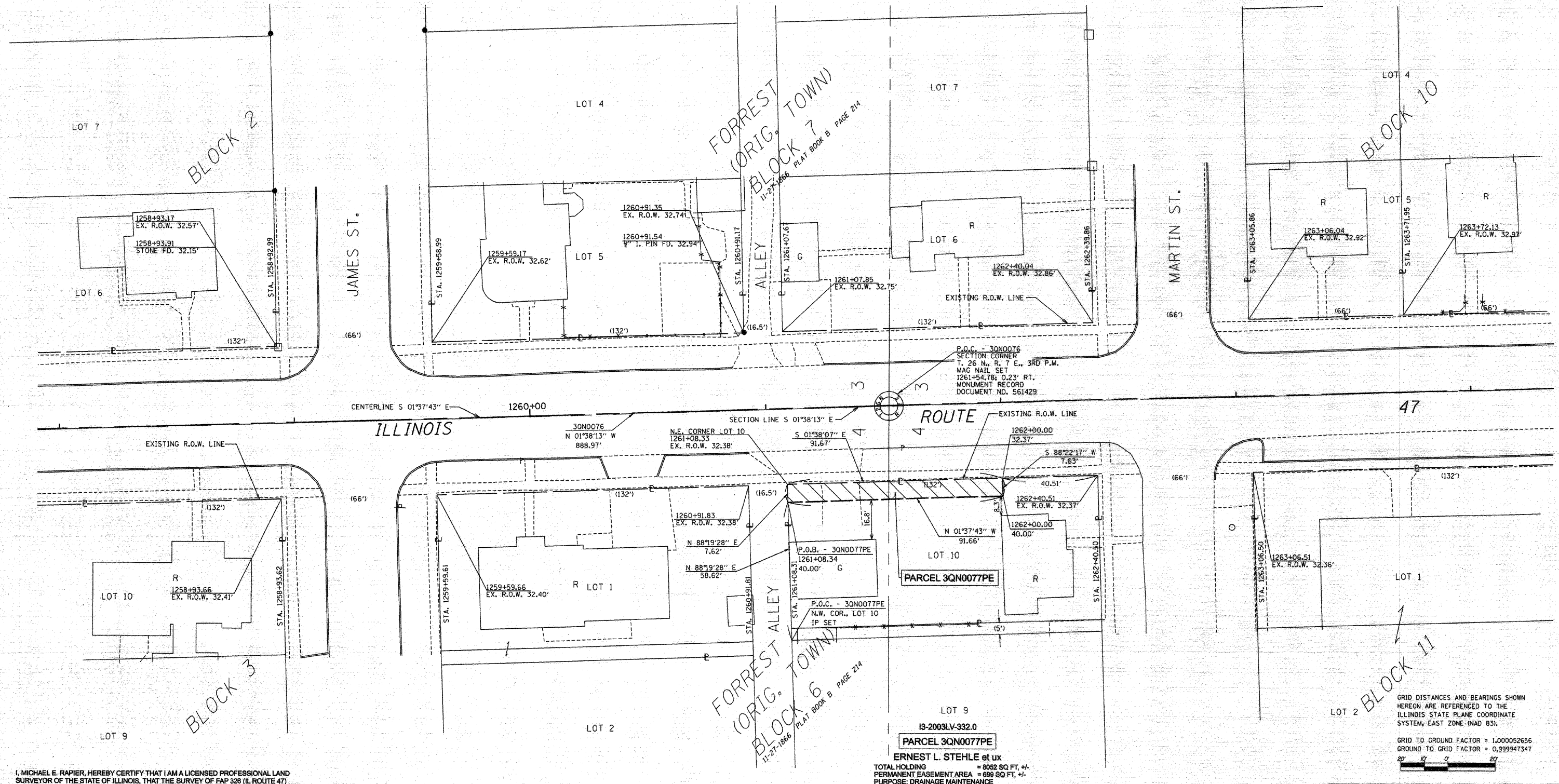
N.E. 1/4, SEC. 4, T. 26 N., R. 7 E., 3RD P.M.

GRID DISTANCES AND BEARINGS SHOWN HEREON ARE REFERENCED TO THE ILLINOIS STATE PLANE COORDINATE SYSTEM, EAST ZONE (NAD 83).

GRID TO GROUND FACTOR = 1.000052656
GROUND TO GRID FACTOR = 0.999947347

RIGHT OF WAY PLANS	
ROUTE:	F.A.P. 326 (IL ROUTE 47)
SECTION:	(123,123)RS-3, (124)RS-5 & (123)BR-3
PROJECT:	
COUNTY:	LIVINGSTON
JOB NO.:	R-93-003-01
STA. 1252+00	TO STA. 1258+00
SCALE 1" = 20'	
SHEET NO. 22 OF 23	

S.W. $\frac{1}{4}$, SEC. 3, T. 26 N., R. 7 E., 3RD P.M.

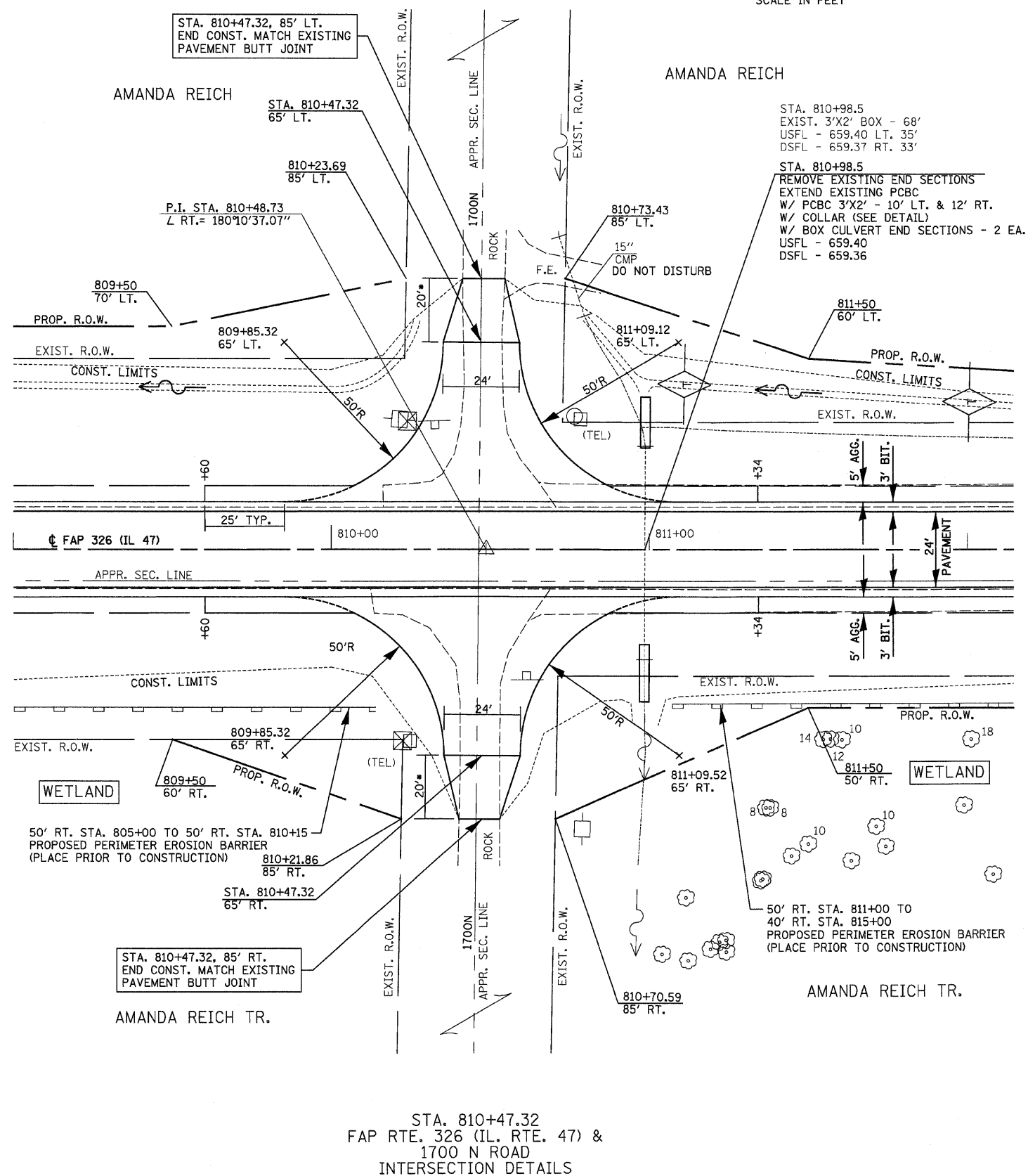
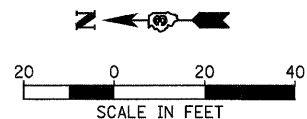


A circular seal for a Professional Land Surveyor in the State of Illinois. The outer ring contains the text "PROFESSIONAL LAND SURVEYOR" at the top and "STATE OF ILLINOIS" at the bottom, separated by two small stars. The center of the seal contains the name "MICHAEL E. RAPIER" and the number "2917" below it. The word "SPRINGFIELD, ILLINOIS" is written in a smaller font, curved along the bottom inner edge of the seal.

S.E. $\frac{1}{4}$, SEC. 4, T. 26 N., R. 7 E., 3RD P.M.

SHEET NO. 23 OF 23

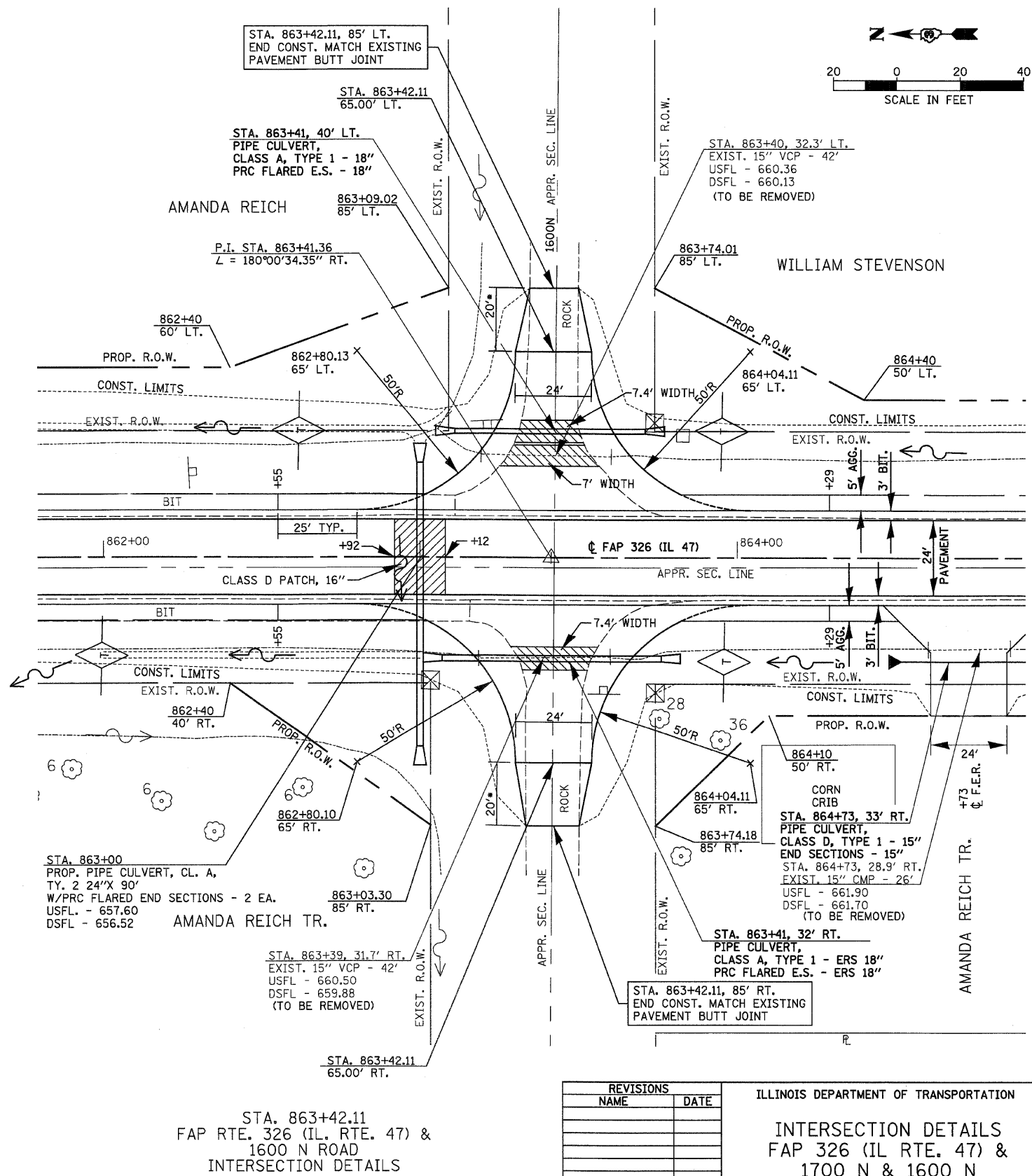
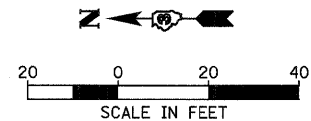
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
326	•	LIVINGSTON	354	118
STA. TO STA.				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				
•(123,123)RS-3,(124)RS-5,(123)BR-3				



• SEE SIDEROAD DETAILS

CLASS D PATCHES, 6 INCH OR
AGGREGATE BASE CSE., TY. A 8"
(SEE SIDEROAD DETAIL)

CLASS D PATCHES, 16 INCH



REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

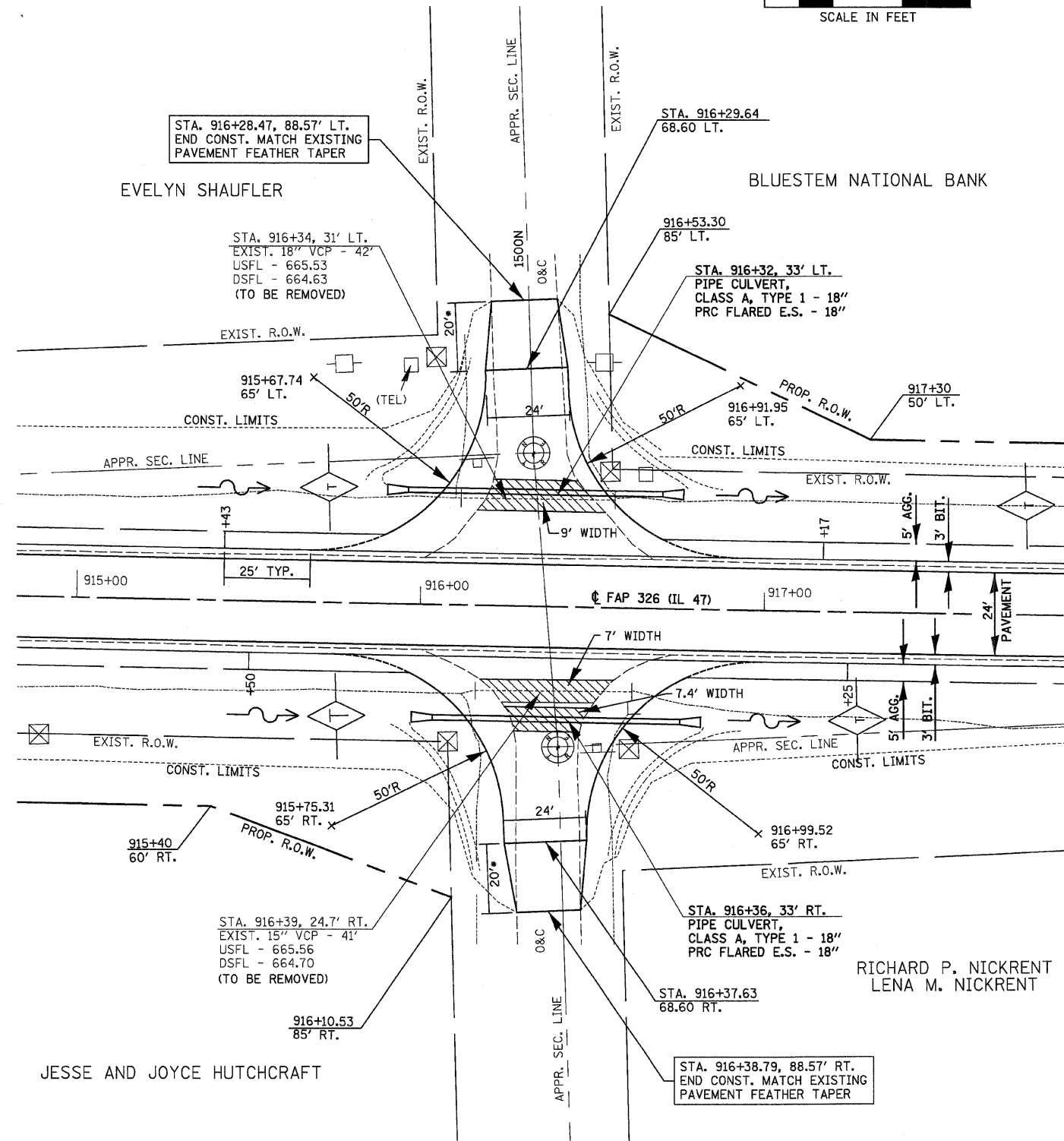
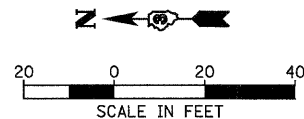
INTERSECTION DETAILS
FAP 326 (IL RTE. 47) &
1700 N & 1600 N

SCALE: VERT.
HORIZ.
DATE

DRAWN BY
CHECKED BY

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
326	•	LIVINGSTON	354	119
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		
•(123,123X)RS-3,(124)RS-5,(123)BR-3				

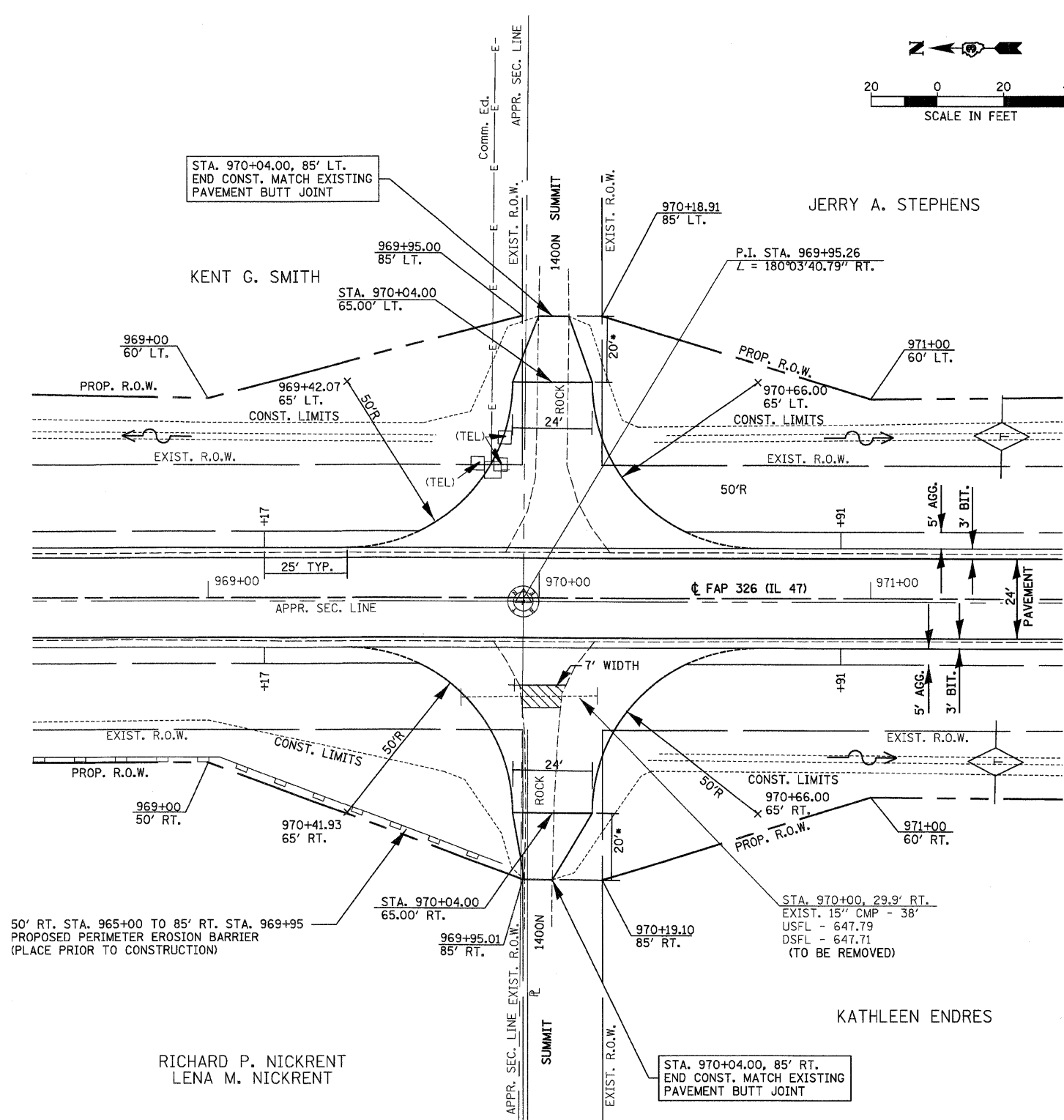
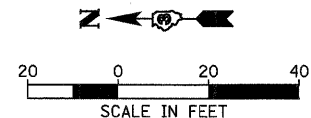
CLASS D PATCHES, 6 INCH OR
AGGREGATE BASE CSE., TY. A 8"
(SEE SIDEROAD DETAIL)



STA. 916+33.63
FAP RTE. 326 (IL. RTE. 47) &
1500 N ROAD
INTERSECTION DETAILS

• SEE SIDEROAD DETAILS

CLASS D PATCHES, 6 INCH OR
AGGREGATE BASE CSE., TY. A 8"
(SEE SIDEROAD DETAIL)



STA. 970+04.00
FAP RTE. 326 (IL. RTE. 47) &
1400 N ROAD
INTERSECTION DETAILS

REVISIONS	
NAME	DATE

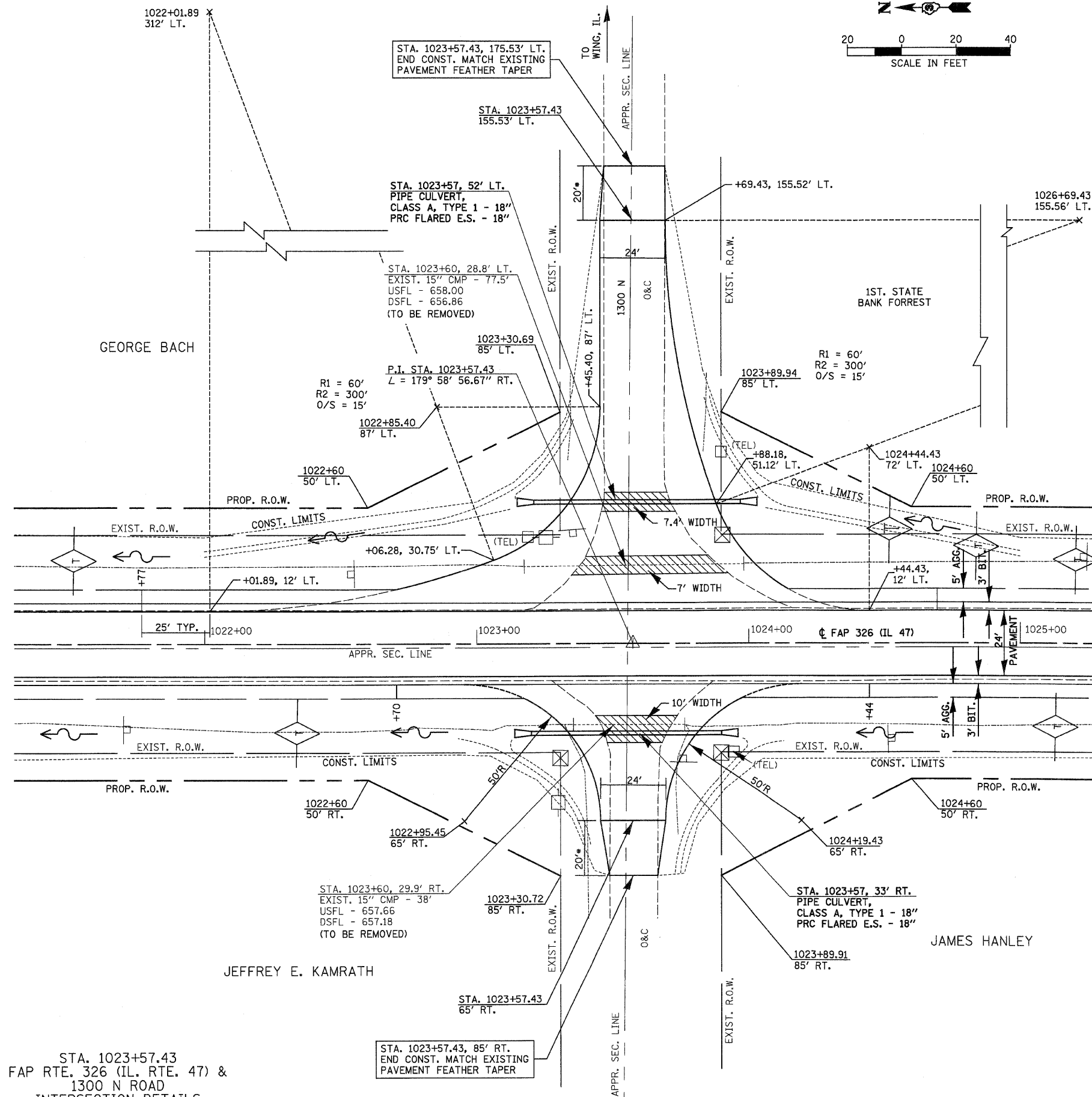
ILLINOIS DEPARTMENT OF TRANSPORTATION
INTERSECTION DETAILS
FAP 326 (IL RTE. 47) &
1500 N & 1400 N

SCALE: VERT.
HORIZ.
DATE

DRAWN BY
CHECKED BY

CLASS D PATCHES, 6 INCH OR
AGGREGATE BASE CSE., TY. A 8"
(SEE SIDEROAD DETAIL)

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
326	•	LIVINGSTON	354	120
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	
•(123,123X)RS-3,(124)RS-5,(123)BR-3				



STA. 1023+57.43
FAP RTE. 326 (IL RTE. 47) &
1300 N ROAD
INTERSECTION DETAILS

JEFFREY E. KAMRATH

JAMES HANLEY

REVISIONS	
NAME	DATE

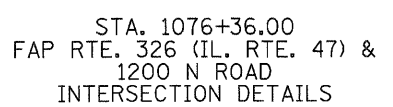
ILLINOIS DEPARTMENT OF TRANSPORTATION

INTERSECTION DETAILS
FAP 326 (IL RTE. 47) & 1300 N

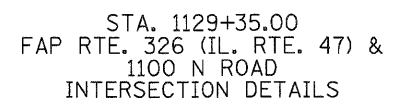
SCALE: VERT.
HORIZ.
DATE

DRAWN BY
CHECKED BY

* SEE SIDEROAD DETAILS



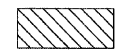
 CLASS D PATCHES, 6 INCH OR
AGGREGATE BASE CSE., TY. A 8"
(SEE SIDEROAD DETAIL)

[illegible]

INTERSECTION DETAILS
FAP 326 (IL RTE. 47) &
1200 N & 1100 N

SCALE: VERT.	DRAWN BY
HORIZ.	
DATE	CHECKED BY

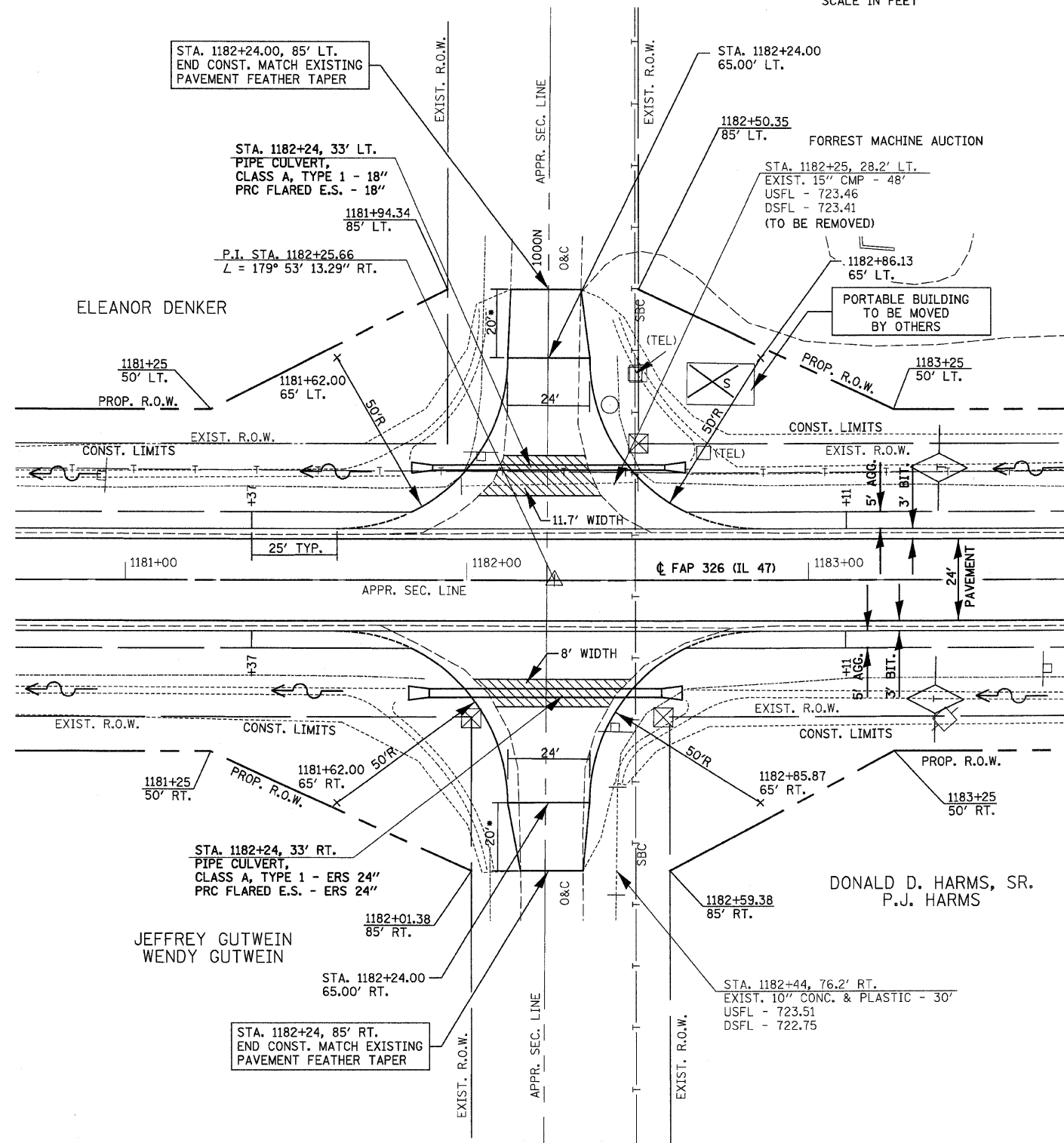
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
326	*	LIVINGSTON	354	122
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	
•(123,123X)RS-3,(124)RS-5,(123)BR-3				



CLASS D PATCHES, 6 INCH OR
AGGREGATE BASE CSE., TY. A 8"
(SEE SIDEROAD DETAIL)



20 0 20 40
SCALE IN FEET



FOR SIDEROADS: (SEE 20' SCALE PLAN AND PROFILE SHEETS FOR DETAILS)

900 N
VAUGHN ST.
STEWART ST.
BULLARD ST.
NORTH ST.
JAMES ST.
MARTIN ST.
WATSON ST.
JONH ST.
KRACK ST.

JEFFREY GUTWEIN
WENDY GUTWEIN

DONALD D. HARMS, SR.
P.J. HARMS

STA. 1182+24.00
FAP RTE. 326 (IL. RTE. 47) &
1000 N ROAD
INTERSECTION DETAILS

• SEE SIDEROAD DETAILS

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

INTERSECTION DETAILS
FAP 326 (IL RTE. 47) & 1000 N

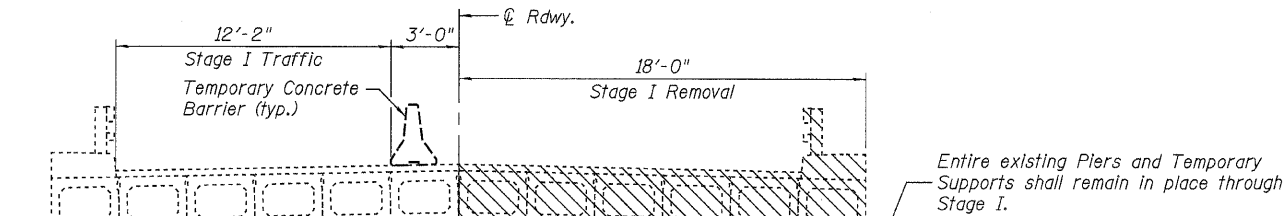
SCALE: VERT.
HORIZ.
DATE

DRAWN BY
CHECKED BY

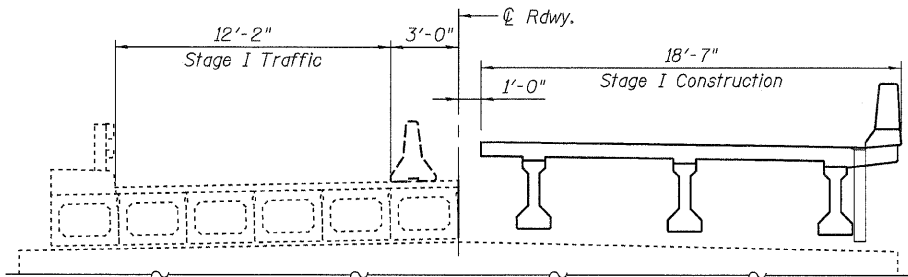
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SHEET 2
OF 18

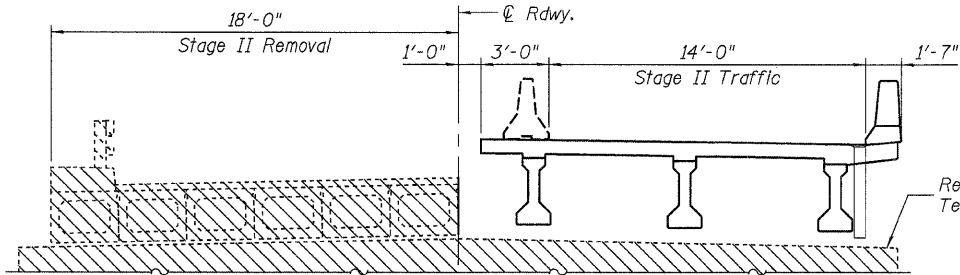
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
326	(123)BR-3	LIVINGSTON	354	124
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				
CONTRACT NO. 66601				



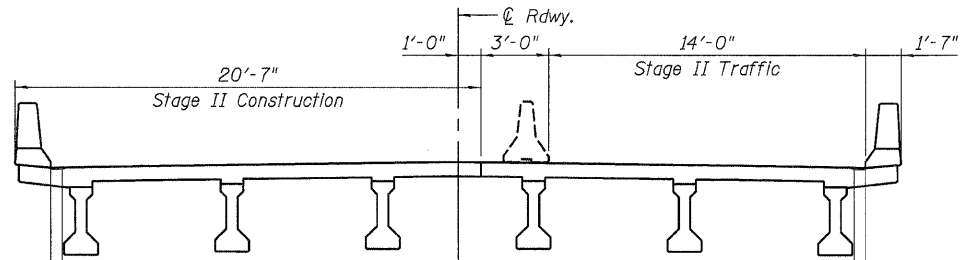
STAGE I REMOVAL
(Looking South)



STAGE I CONSTRUCTION
(Looking South)

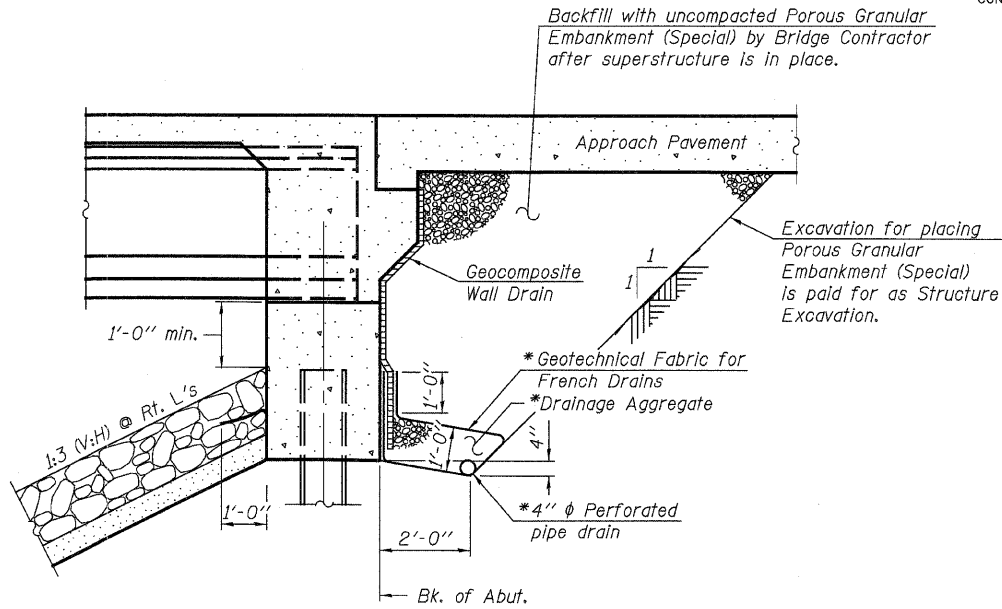


STAGE II REMOVAL
(Looking South)



STAGE II CONSTRUCTION
(Looking South)

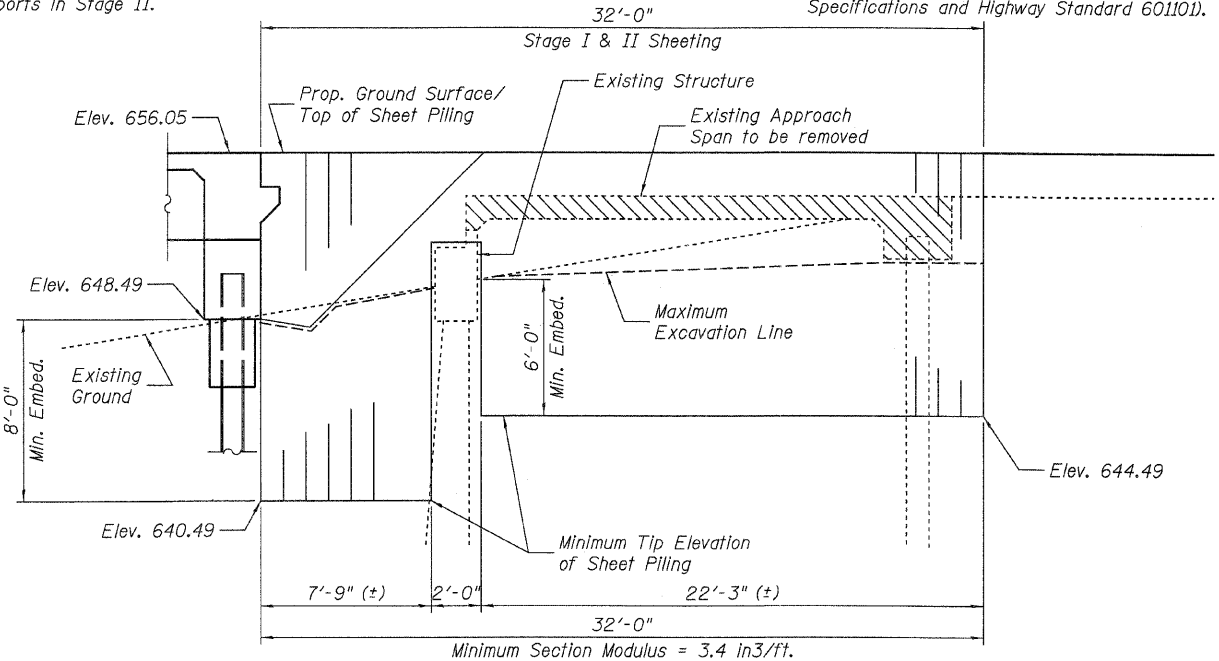
NOTES:
Hatched area indicates Removal of Existing Structures.
Removal of existing railing and wearing surface is included with Removal of Existing Structures.
For quantity and location of Temporary Concrete Barrier, see Roadway Plans.



SECTION THRU INTEGRAL ABUTMENT
(Horiz. dlm. @ Rt. L's)

* Included in the cost of Pipe Underdrains for Structures.

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



SOUTH ABUTMENT
(North Abutment similar)

TEMPORARY SHEET PILING DETAILS

(Slopes and horizontal dimensions are measured parallel to CL roadway)

If the Contractor chooses to alter the temporary cantilevered sheet piling design requirements shown on plans, a design submittal including plan details and calculations will be required for review and acceptance by the Engineer.

STAGE CONSTRUCTION DETAILS

ILLINOIS 47 OVER
NORTH FORK VERMILION RIVER
FAP ROUTE 326 SECTION (123)BR-3
LIVINGSTON COUNTY
STATION 949+25.00
STRUCTURE NO. 053-0179



Johnson, Depp & Quisenberry
CONSULTING ENGINEERS
Springfield, Illinois

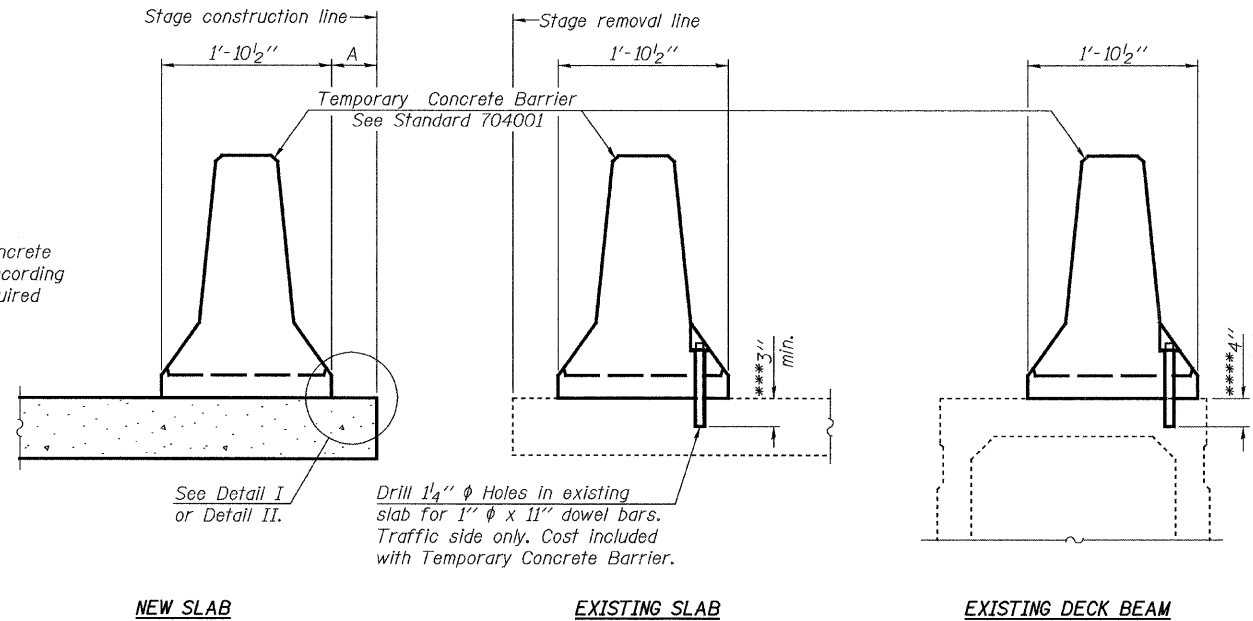
DESIGNED: CDB	DRAWN: P. Ray
CHECKED: DCD	CHECKED: CDB/DCD

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SHEET 3
OF 18

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
326	(123)BR-3	LIVINGSTON		125
FED. ROAD DIST. N.				
ILLINOIS				
FED. AID PROJECT				
CONTRACT NO. 66601				

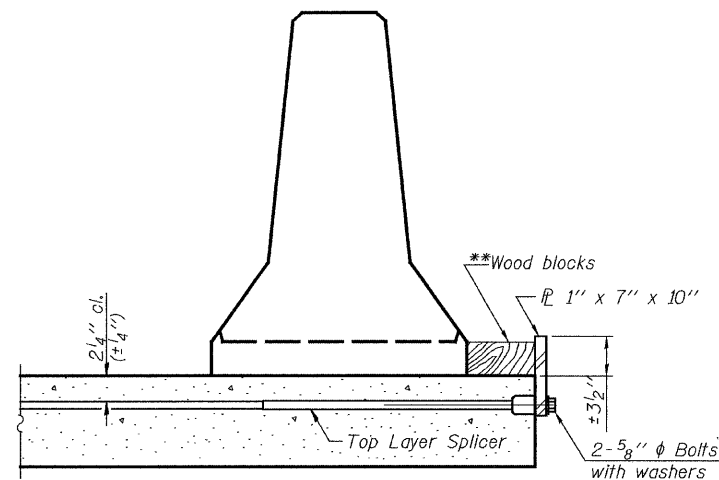
When "A" is 3'-6" or less, the temporary concrete barrier shall be anchored to the new slab according to Detail I or Detail II. No anchorage is required when "A" is greater than 3'-6".



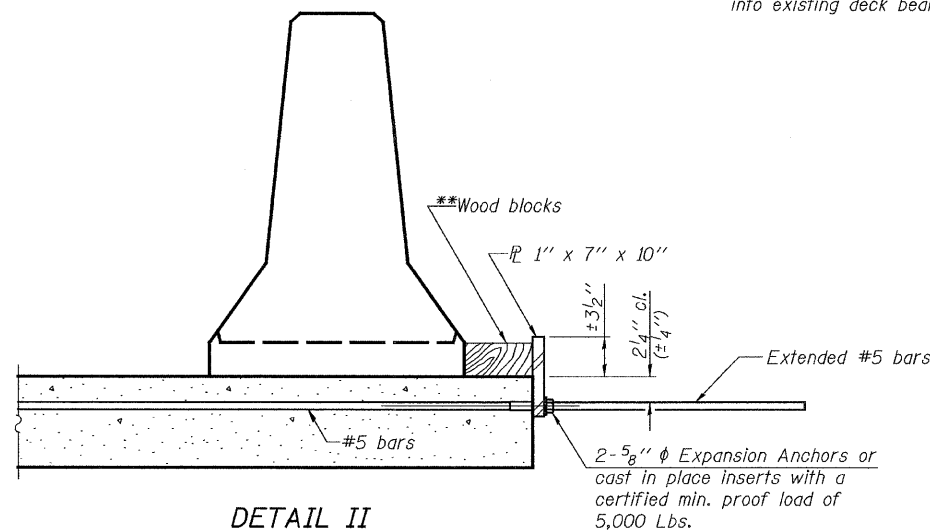
SECTIONS THRU SLAB OR DECK BEAM

- NOTES**
- Detail I - With Bar Splicer or Couplers:
Connect one (1) 1"x7"x10" steel $\bar{P}$ to the top layer of couplers with 2-5/8" ϕ bolts screwed to coupler at approximate $\bar{C}$ of each barrier panel.
- Detail II - With Extended Reinforcement Bars:
Connect one (1) 1"x7"x10" steel $\bar{P}$ to the concrete slab or concrete wearing surface with 2-5/8" ϕ Expansion Anchors or cast in place inserts spaced between the top layer of reinforcement at approximate $\bar{C}$ of each barrier panel.
- Cost of anchorage is included with Temporary Concrete Barrier.
The 1" x 7" x 10" plate shall not be removed until stage II construction forms and all reinforcement bars are in place and the concrete is ready to be placed.

- ***Dimension shown is minimum required embedment into concrete.
If hot-mix asphalt wearing surface is present, minimum embedment shall be in addition to wearing surface depth.
- ***If existing deck beam is to remain in place after stage construction, embedment shall only be into wearing surface and not into existing deck beam concrete.

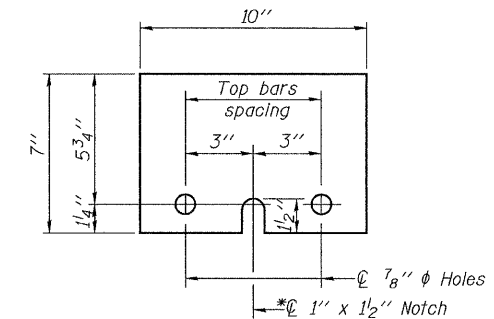


DETAIL I



DETAIL II

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



STEEL RETAINER $\bar{P}$ 1' x 7' x 10'

* Required only with Detail II

**TEMPORARY CONCRETE BARRIER
FOR STAGE CONSTRUCTION**
ILLINOIS 47 OVER
NORTH FORK VERMILION RIVER
FAP ROUTE 326 SECTION (123)BR-3
LIVINGSTON COUNTY
STATION 949+25.00
STRUCTURE NO. 053-0179

DESIGNED:	CDB	DRAWN:	P. Ray
CHECKED:	DCD	CHECKED:	CDB/DCD

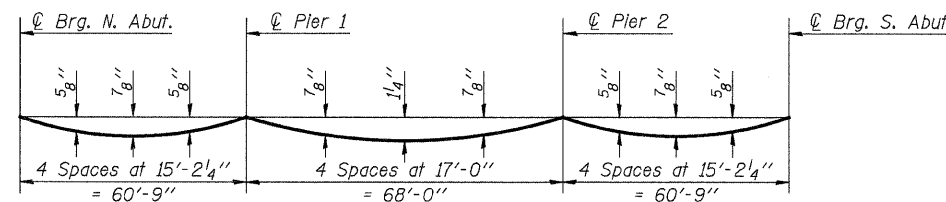
R-27

9-3-07

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

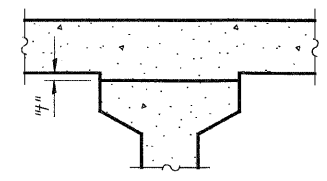
SHEET 4
OF 18

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
326	(123)BR-3	LIVINGSTON	354	126
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	
CONTRACT NO. 66601				



DEAD LOAD DEFLECTION DIAGRAM
(Includes weight of concrete, excluding beams).

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

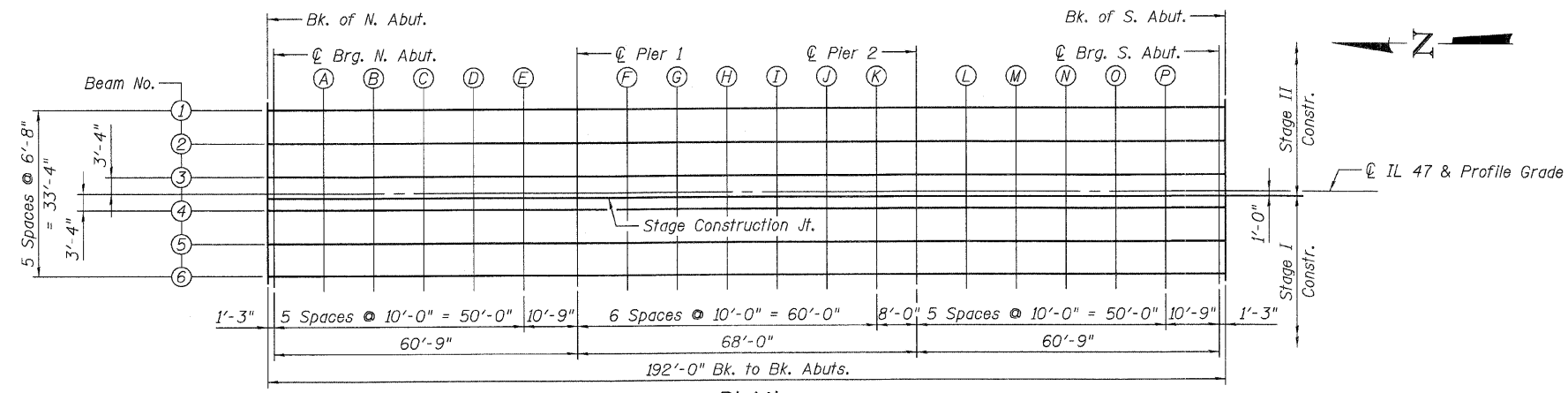


To determine "f": After all precast prestressed beams have been erected, elevations of the top flanges of the beams shall be taken at intervals shown below. These elevations subtracted from the "Theoretical Grade Elevations Adjusted For Dead Load Deflections" shown below, minus slab thickness, equals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

FILLET HEIGHTS

BEAM 1					BEAM 2					BEAM 3					PROFILE GRADE				
Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection	Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection	Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection	Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. N. Abut.	948+29.000	-16.667	655.775	655.775	Bk. N. Abut.	948+29.000	-10.000	655.898	655.898	Bk. N. Abut.	948+29.000	-3.333	655.998	655.998	Bk. N. Abut.	948+29.000	0.000	656.048	656.048
⊗ Brg. N. Abut.	948+30.250	-16.667	655.778	655.778	⊗ Brg. N. Abut.	948+30.250	-10.000	655.901	655.901	⊗ Brg. N. Abut.	948+30.250	-3.333	656.001	656.001	⊗ Brg. N. Abut.	948+30.250	0.000	656.051	656.051
A	948+40.250	-16.667	655.801	655.801	A	948+40.250	-10.000	655.925	655.925	A	948+40.250	-3.333	656.025	656.025	A	948+40.250	0.000	656.075	656.113
B	948+50.250	-16.667	655.823	655.823	B	948+50.250	-10.000	655.946	655.946	B	948+50.250	-3.333	656.046	656.107	B	948+50.250	0.000	656.096	656.157
C	948+60.250	-16.667	655.841	655.910	C	948+60.250	-10.000	655.964	656.034	C	948+60.250	-3.333	656.064	656.134	C	948+60.250	0.000	656.114	656.184
D	948+70.250	-16.667	655.857	655.919	D	948+70.250	-10.000	655.980	656.043	D	948+70.250	-3.333	656.080	656.143	D	948+70.250	0.000	656.130	656.193
E	948+80.250	-16.667	655.870	655.910	E	948+80.250	-10.000	655.993	656.034	E	948+80.250	-3.333	656.093	656.134	E	948+80.250	0.000	656.143	656.184
⊗ Pier 1	948+91.000	-16.667	655.881	655.881	⊗ Pier 1	948+91.000	-10.000	656.005	656.005	⊗ Pier 1	948+91.000	-3.333	656.105	656.105	⊗ Pier 1	948+91.000	0.000	656.155	656.155
F	949+01.000	-16.667	655.889	655.941	F	949+01.000	-10.000	656.012	656.065	F	949+01.000	-3.333	656.112	656.165	F	949+01.000	0.000	656.162	656.215
G	949+11.000	-16.667	655.894	655.991	G	949+11.000	-10.000	656.017	656.104	G	949+11.000	-3.333	656.117	656.204	G	949+11.000	0.000	656.167	656.234
H	949+21.000	-16.667	655.896	655.999	H	949+21.000	-10.000	656.020	656.123	H	949+21.000	-3.333	656.120	656.223	H	949+21.000	0.000	656.170	656.273
I	949+31.000	-16.667	655.896	655.997	I	949+31.000	-10.000	656.020	656.120	I	949+31.000	-3.333	656.120	656.220	I	949+31.000	0.000	656.170	656.270
J	949+41.000	-16.667	655.893	655.974	J	949+41.000	-10.000	656.017	656.098	J	949+41.000	-3.333	656.117	656.198	J	949+41.000	0.000	656.167	656.248
K	949+51.000	-16.667	655.888	655.931	K	949+51.000	-10.000	656.011	656.054	K	949+51.000	-3.333	656.111	656.154	K	949+51.000	0.000	656.161	656.204
⊗ Pier 2	949+59.000	-16.667	655.881	655.881	⊗ Pier 2	949+59.000	-10.000	656.005	656.005	⊗ Pier 2	949+59.000	-3.333	656.105	656.105	⊗ Pier 2	949+59.000	0.000	656.155	656.155
L	949+69.000	-16.667	655.871	655.909	L	949+69.000	-10.000	655.994	656.034	L	949+69.000	-3.333	656.094	656.132	L	949+69.000	0.000	656.144	656.182
M	949+79.000	-16.667	655.858	655.919	M	949+79.000	-10.000	655.981	656.042	M	949+79.000	-3.333	656.081	656.142	M	949+79.000	0.000	656.131	656.192
N	949+89.000	-16.667	655.842	655.912	N	949+89.000	-10.000	655.966	656.035	N	949+89.000	-3.333	656.066	656.135	N	949+89.000	0.000	656.116	656.185
O	949+99.000	-16.667	655.824	655.886	O	949+99.000	-10.000	655.947	656.010	O	949+99.000	-3.333	656.047	656.110	O	949+99.000	0.000	656.097	656.160
P	950+09.000	-16.667	655.803	655.843	P	950+09.000	-10.000	655.927	655.967	P	950+09.000	-3.333	656.027	656.067	P	950+09.000	0.000	656.077	656.117
⊗ Brg. E. Abut.	950+19.750	-16.667	655.778	655.778	⊗ Brg. E. Abut.	950+19.750	-10.000	655.901	655.901	⊗ Brg. E. Abut.	950+19.750	-3.333	656.001	656.001	⊗ Brg. E. Abut.	950+19.750	0.000	656.051	656.051
Bk. E. Abut.	950+21.000	-16.667	655.775	655.775	Bk. E. Abut.	950+21.000	-10.000	655.898	655.898	Bk. E. Abut.	950+21.000	-3.333	655.998	655.998	Bk. E. Abut.	950+21.000	0.000	656.048	656.048

BEAM 4					BEAM 5					BEAM 6				
Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection	Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection	Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. N. Abut.	948+29.000	1.000	656.033	656.033	Bk. N. Abut.	948+29.000	10.000	655.898	655.898	Bk. N. Abut.	948+29.000	16.667	655.775	655.775
⊗ Brg. N. Abut.	948+30.250	1.000	656.036	656.036	⊗ Brg. N. Abut.	948+30.250	10.000	655.901	655.901	⊗ Brg. N. Abut.	948+30.250	16.667	655.778	655.778
A	948+40.250	1.000	656.060	656.098	A	948+40.250	10.000	655.925	655.963	A	948+40.250	16.667	655.801	655.840
B	948+50.250	1.000	656.081	656.142	B	948+50.250	10.000	655.946	656.007	B	948+50.250	16.667	655.823	655.884
C	948+60.250	1.000	656.099	656.169	C	948+60.250	10.000	655.964	656.034	C	948+60.250	16.667	655.841	655.910
D	948+70.250	1.000	656.115	656.178	D	948+70.250	10.000	655.980	656.043	D	948+70.250	16.667	655.857	655.919
E	948+80.250	1.000	656.128	656.169	E	948+80.250	10.000	655.993	656.034	E	948+80.250	16.667	655.870	655.910
⊗ Pier 1	948+91.000	1.000	656.140	656.140	⊗ Pier 1	948+91.000	10.000	656.005	656.005	⊗ Pier 1	948+91.000	16.667	655.881	655.881
F	949+01.000	1.000	656.147	656.200	F	949+01.000	10.000	656.012	656.065	F	949+01.000	16.667	655.889	655.941
G	949+11.000	1.000	656.152	656.239	G	949+11.000	10.000	656.017	656.104	G	949+11.000	16.667	655.894	655.981
H	949+21.000	1.000	656.155	656.258	H	949+21.000	10.000	656.020	656.123	H	949+21.000	16.667	655.896	655.999
I	949+31.000	1.000	656.155	656.255	I	949+31.000	10.000	656.020	656.120	I	949+31.000	16.667	655.896	655.997
J	949+41.000	1.000	656.152	656.233	J	949+41.000	10.000	656.017	656.098	J	949+41.000	16.667	655.893	655.974
K	949+51.000	1.000	656.146	656.189	K	949+51.000	10.000	656.011	656.054	K	949+51.000	16.667	655.888	655.931
⊗ Pier 2	949+59.000	1.000	656.140	656.140	⊗ Pier 2	949+59.000	10.000	656.005	656.005	⊗ Pier 2	949+59.000	16.667	655.881	655.881
L	949+69.000	1.000	656.129	656.167	L	949+69.000	10.000	655.994	656.032	L	949+69.000	16.667	655.871	655.909
M	949+79.000	1.000	656.116	656.177	M	949+79.000	10.000	655.981	656.042	M	949+79.000	16.667	655.858	655.919
N	949+89.000	1.000	656.101	656.170	N	949+89.000	10.000	655.966	656.035	N	949+89.000	16.667	655.842	655.912
O	949+99.000	1.000	656.082	656.145	O	949+99.000	10.000	655.947	656.010	O	949+99.000	16.667	655.824	655.886
P	950+09.000	1.000	656.062	656.102	P	950+09.000	10.000	655.927	655.967	P	950+09.000	16.667	655.803	655.843
⊗ Brg. E. Abut.	950+19.750	1.000	656.036	656.036	⊗ Brg. E. Abut.	950+19.750	10.000	655.901	655.901	⊗ Brg. E. Abut.	950+19.750	16.667	655.778	655.778
Bk. E. Abut.	950+21.000	1.000	656.033	656.033	Bk. E. Abut.	950+21.000	10.000	655.898	655.898	Bk. E. Abut.	950+21.000	16.667	655.775	655.775



PLAN

TOP OF SLAB ELEVATIONS
ILLINOIS 47 OVER
NORTH FORK VERMILION RIVER
FAP ROUTE 326 SECTION (123)BR-3
LIVINGSTON COUNTY
STATION 949+25.00
STRUCTURE NO. 053-0179

Johnson, Depp & Quisenberry
CONSULTING ENGINEERS
Springfield, Illinois

DESIGNED: CDB	DRAWN: P. Ray
CHECKED: DCD	CHECKED: CDB/DCD

PI-E 10-22-04

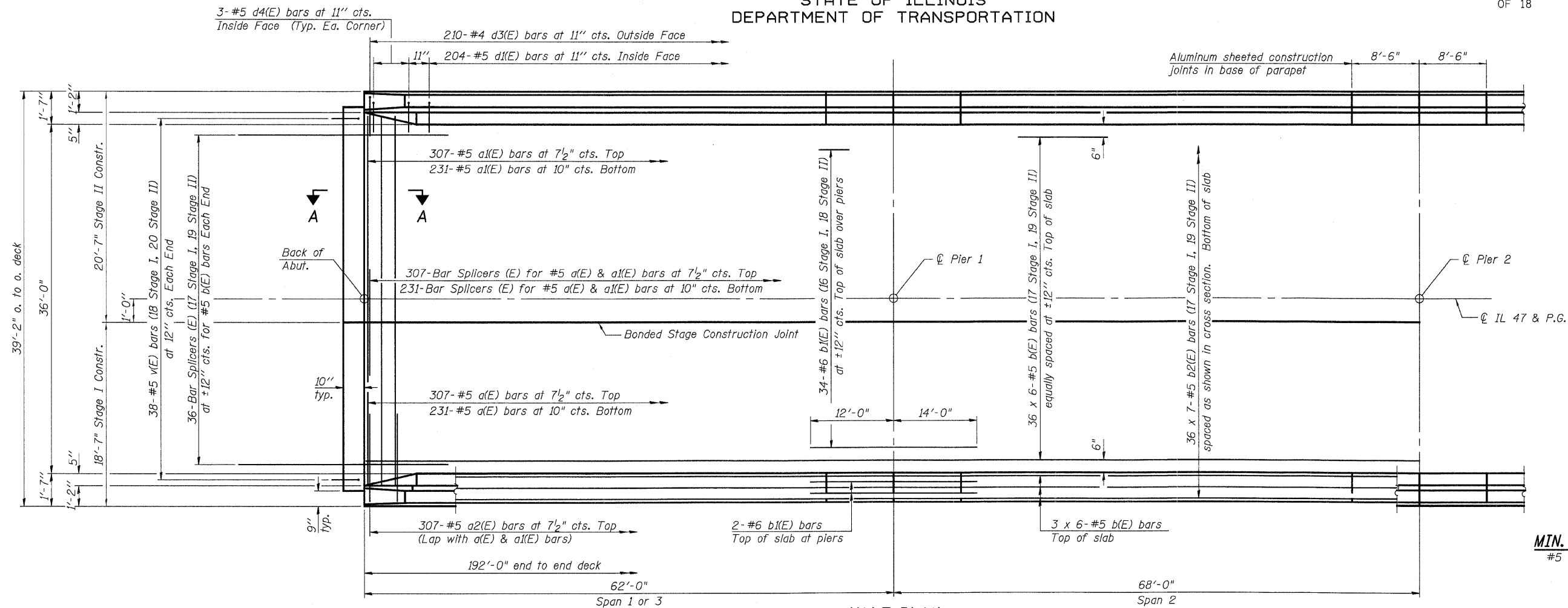
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

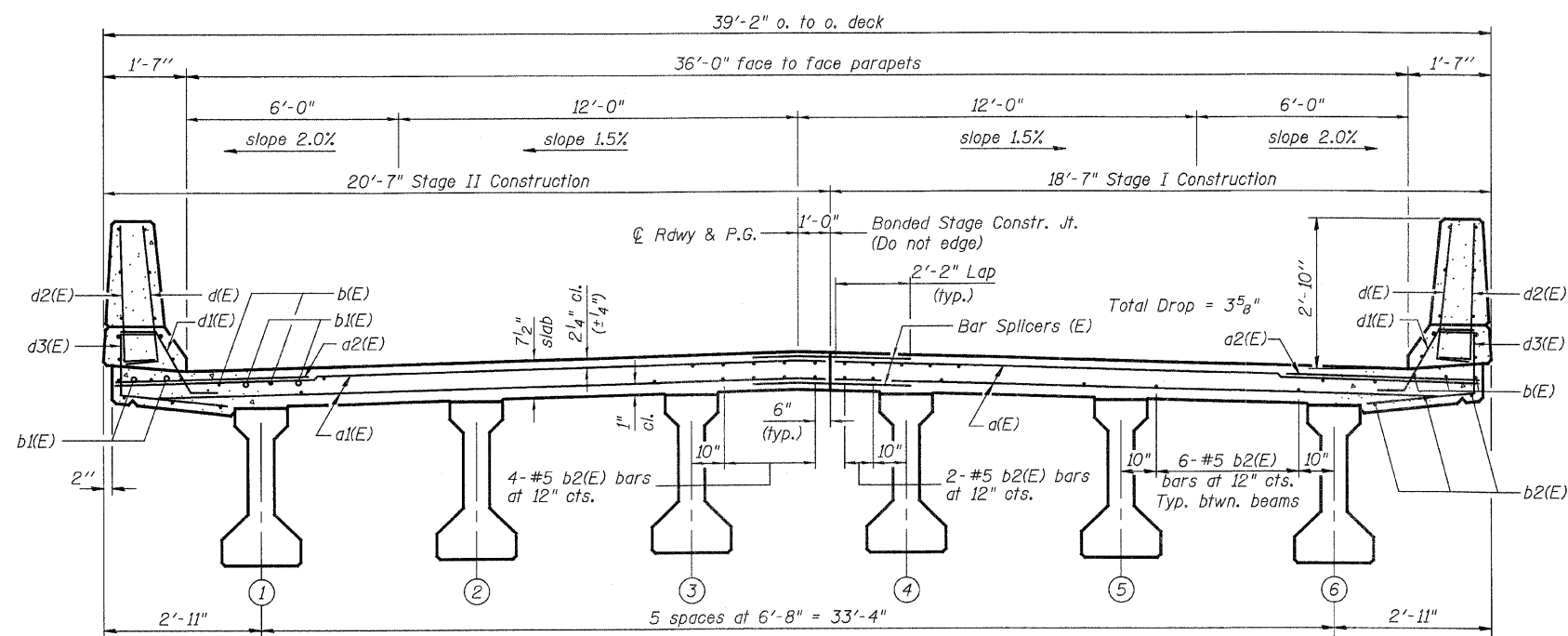
SHEET 5
OF 18

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
326	(123)BR-3	LIVINGSTON	354	127
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

CONTRACT NO. 66601



HALF PLAN



CROSS SECTION
(Looking South)

Notes:
See Sheet #8 of 18 for superstructure details and Bill of Material.
Reinforcement bars designated (E) shall be epoxy coated.
Bars indicated thus 20 x 3-#5 etc. indicates 20 lines of bars with 3 lengths per line.
See Sheet #8 of 18 for parapet reinforcement.

SUPERSTRUCTURE
ILLINOIS 47 OVER
NORTH FORK VERMILION RIVER
FAP ROUTE 326 SECTION (123)BR-3
LIVINGSTON COUNTY
STATION 949+25.00
STRUCTURE NO. 053-0179

JD Johnson, Depp & Quisenberry CONSULTING ENGINEERS Springfield, Illinois	
DESIGNED: CDB	DRAWN: P. Ray
CHECKED: DCD	CHECKED: CDB/DCD

SI-2-0

10-22-04

FILE: J:\DOA\10136 IL47 Livingston Pk2\1-VermillionRiver\05superstr\rdgn

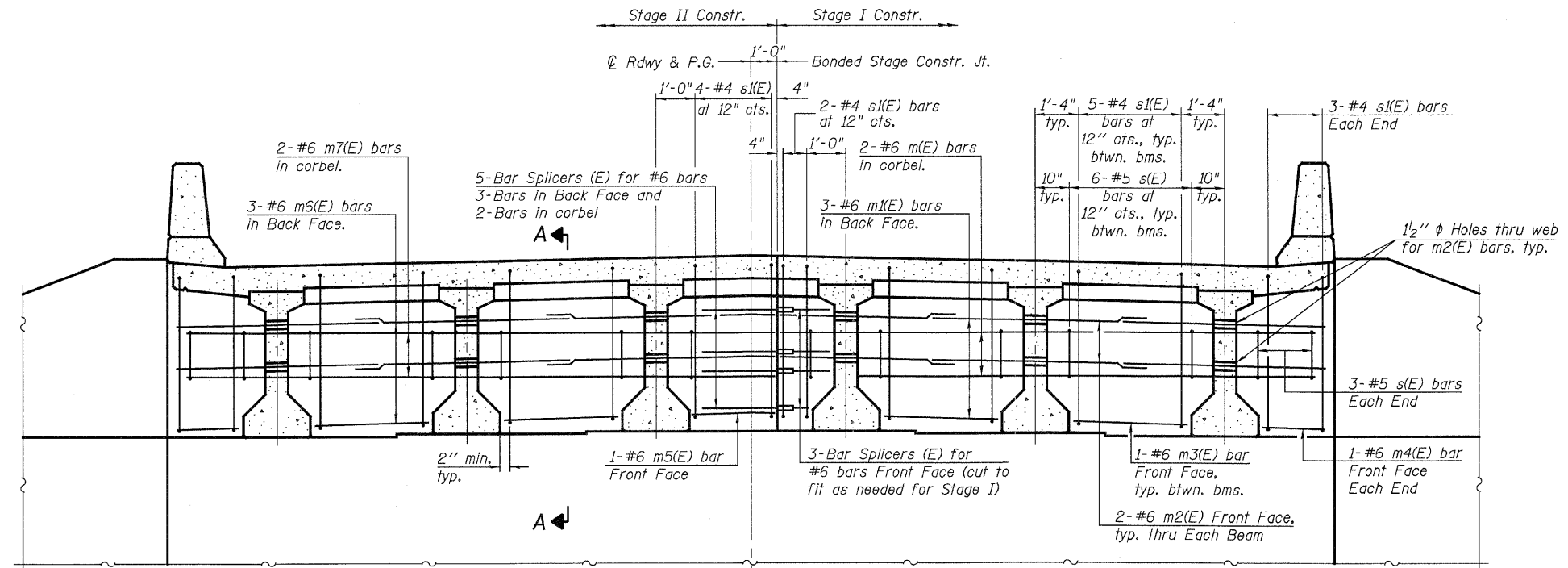
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

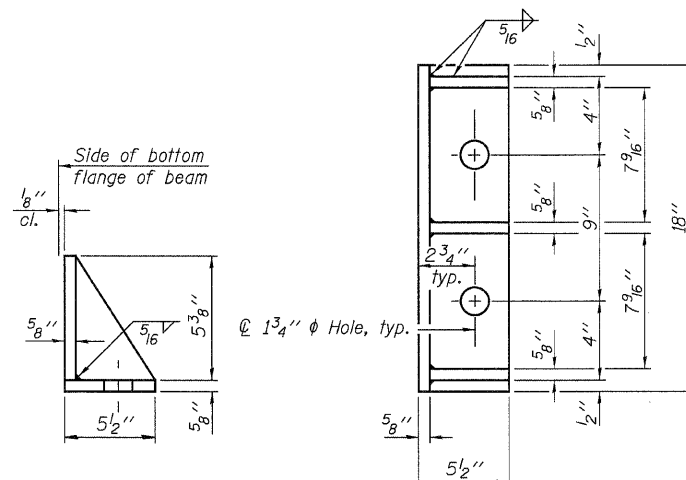
SHEET 6
OF 18

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
326	(123)BR-3	LIVINGSTON	354	128
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT CONTRACT NO. 66601				



DIAPHRAGM ELEVATION AT SOUTH ABUTMENT
(North Abutment Mirror Image)

MIN. BAR LAP
#6 bar = 2'-9"

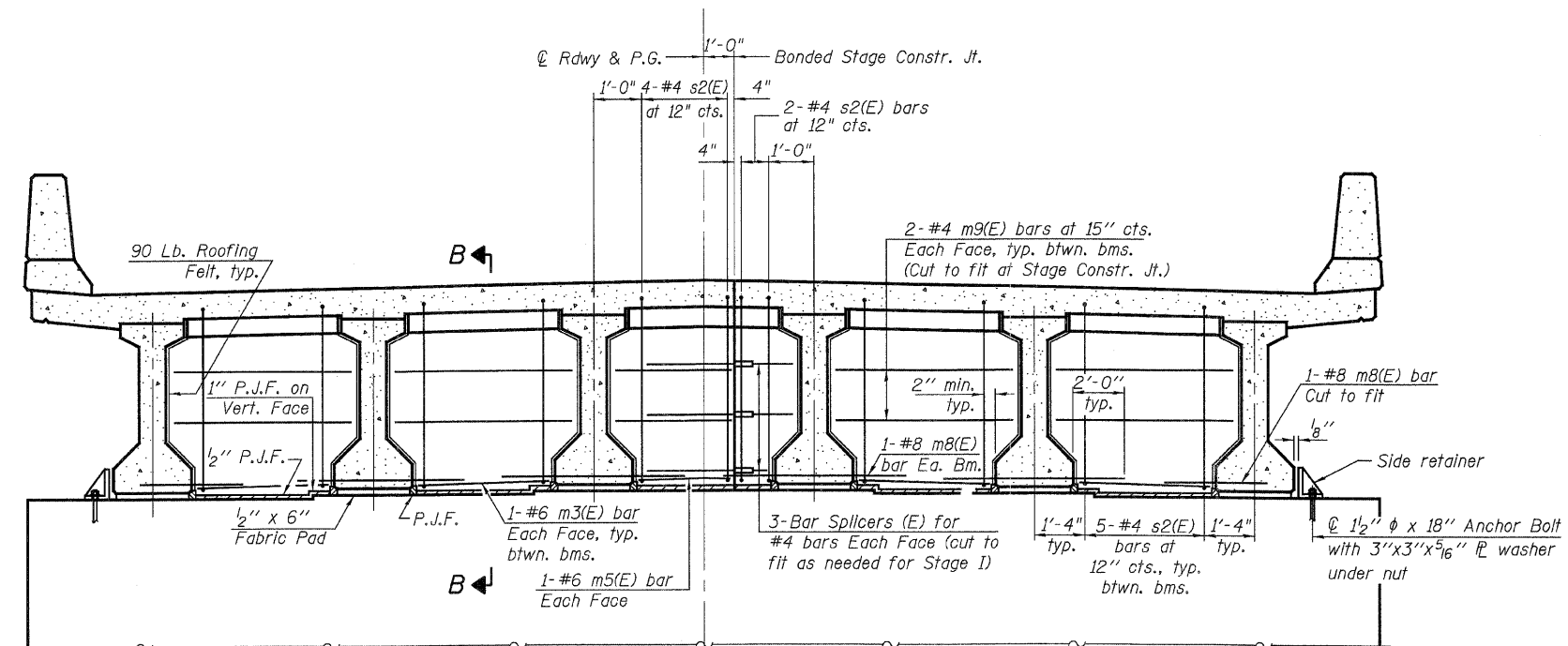


SIDE RETAINER

Equivalent rolled angle with stiffeners
will be allowed in lieu of welded plates.

Notes:

- Reinforcement bars in diaphragm are billed with superstructure on sheet #8 of 18.
- Concrete in diaphragm is included with Concrete Superstructure on sheet #8 of 18.
- For details of bars s(E), s1(E) and s2(E) see sheet #8 of 18.
- The s(E), s1(E) and s2(E) bars shall be placed parallel to the beams.
- Spacing for these bars shall be at right angles to the beams.
- See sheet #7 of 18 for Sections A-A and B-B.
- Cost of 90 Lb. roofing felt is included with Concrete Superstructure.
- The side retainer shall be galvanized after shop fabrication according to AASHTO M 111 and ASTM A 385. Cost of side retainer and anchor bolts shall be included with Concrete Structures.
- See sheet #12 of 18 for anchor bolt details.



DIAPHRAGM AT PIER
(Looking South)

DIAPHRAGM DETAILS

ILLINOIS 47 OVER
NORTH FORK VERMILION RIVER
FAP ROUTE 326 SECTION (123)BR-3
LIVINGSTON COUNTY
STATION 949+25.00
STRUCTURE NO. 053-0179



Johnson, Depp & Quisenberry
CONSULTING ENGINEERS
Springfield, Illinois

DESIGNED: CDB	DRAWN: P. Ray
CHECKED: DCD	CHECKED: CDB/DCD

PI-2DI

10-22-04

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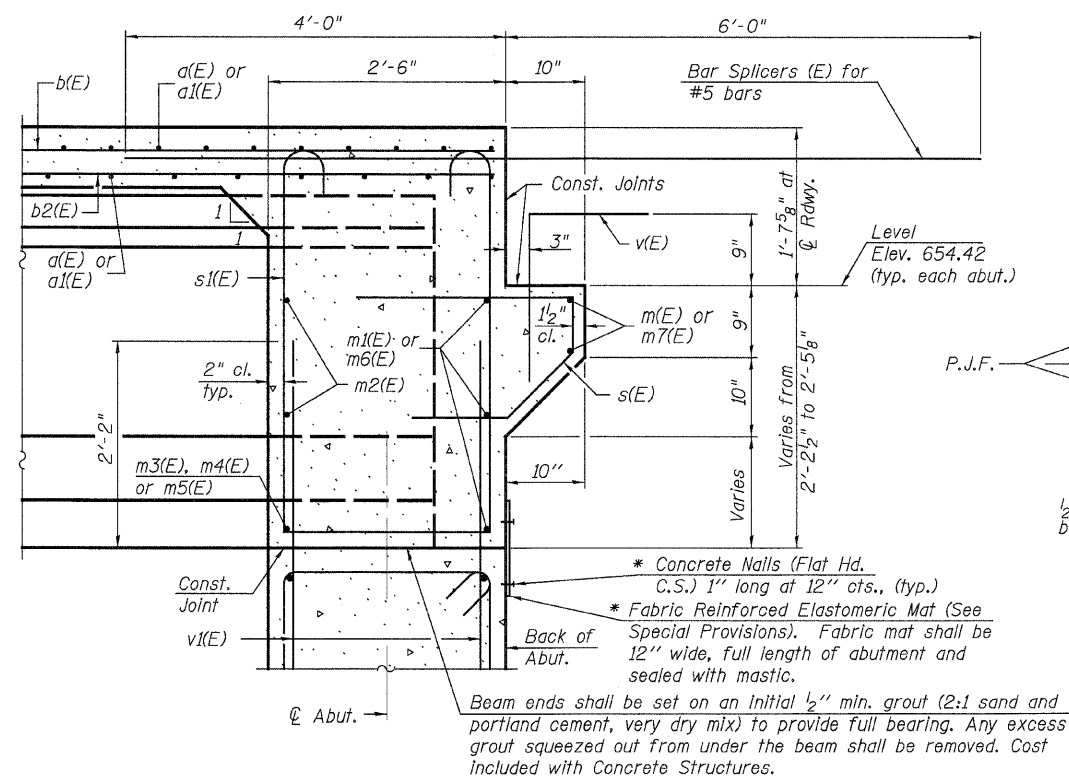
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

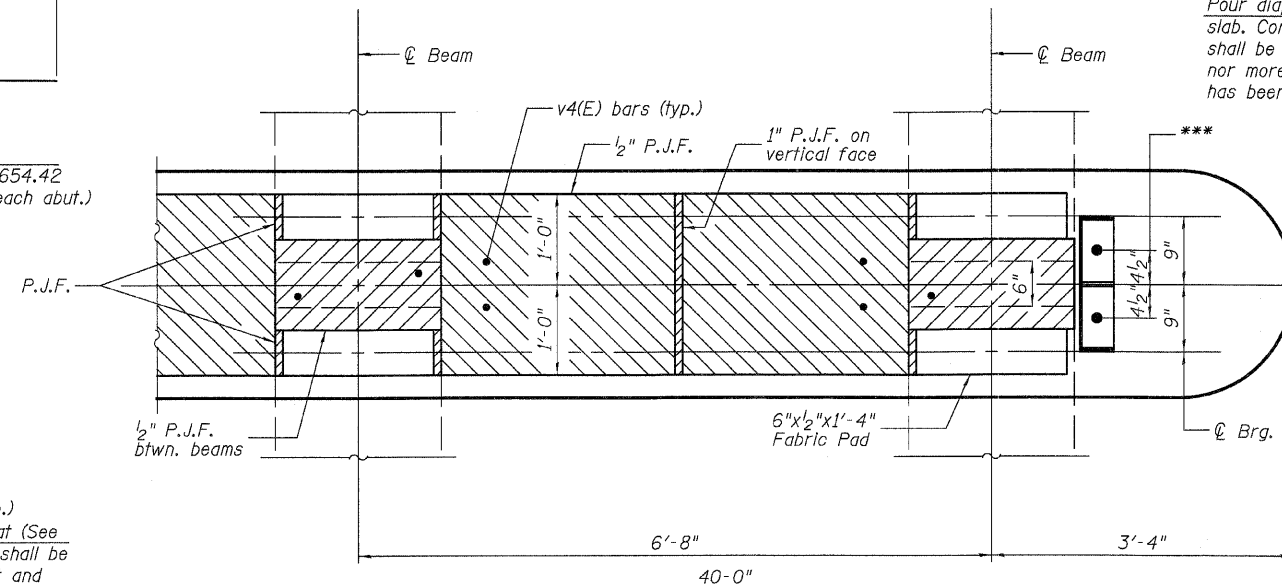
SHEET 7
OF 18

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
326	(123)BR-3	LIVINGSTON	354	129
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				
CONTRACT NO. 66601				



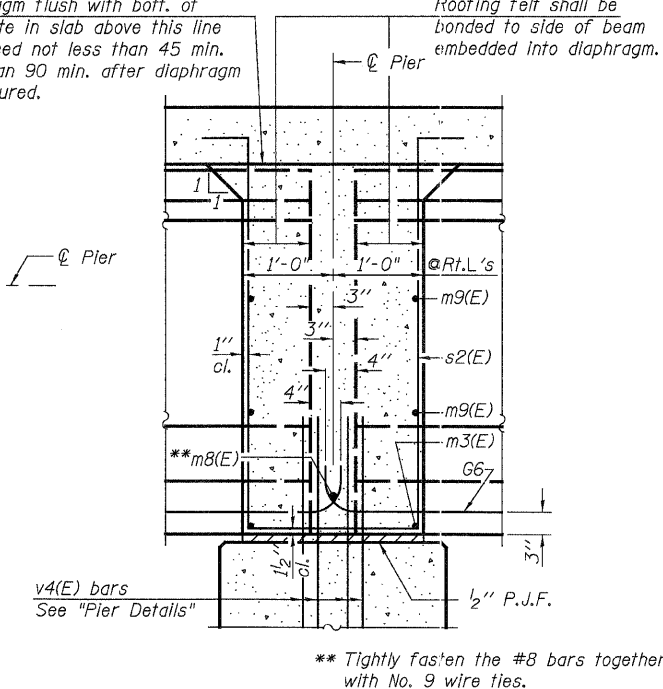
SECTION A-A

Dimensions at right angles to abutment, except as shown.
* Cost included with Concrete Structures.



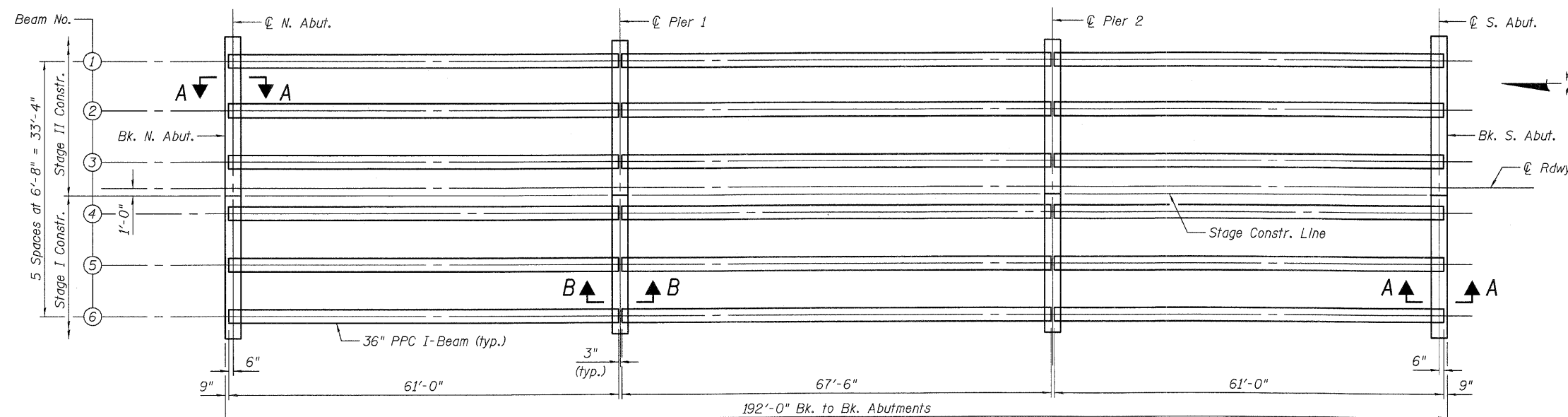
PLAN AT PIER

*** 1/2" ϕ x 18" Anchor Bolts with 3" x 3" x 5/16" ϕ washer under nut. Holes in cap to be drilled after beams are in place. See Sheet #12 of 18.



SECTION B-B

Dimensions along ϕ of beam, except as shown.



FRAMING PLAN

DIAPHRAGM DETAILS

ILLINOIS 47 OVER
NORTH FORK VERMILION RIVER
FAP ROUTE 326 SECTION (123)BR-3
LIVINGSTON COUNTY
STATION 949+25.00
STRUCTURE NO. 053-0179

Johnson, Depp & Quisenberry CONSULTING ENGINEERS Springfield, Illinois			
DESIGNED: CDB	DRAWN: P. Ray		
CHECKED: DCD	CHECKED: CDB/DCD		

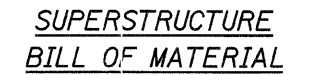
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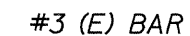
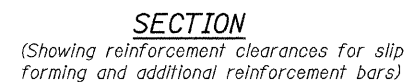


Reinforcement bars designated (E) shall be epoxy coated.

Notes:
Fiberglass pipe shall conform to ASTM D2996, with short-time rupture strength hoop tensile stress of 30,000 p.s.i. minimum.
The exterior surfaces of the floor drains shall be coated or pigmented by the manufacturer with a color that matches the concrete.
The clamping device and inserts shall be galvanized according to AASHTO M 232.

SUPERSTRUCTURE DETAILS
ILLINOIS 47 OVER
NORTH FORK VERMILION RIVER
FAP ROUTE 326 SECTION (123)BR-3
LIVINGSTON COUNTY
STATION 949+25.00
STRUCTURE NO. 053-0179

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
326	(123)BR-3	LIVINGSTON		130A
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	
CONTRACT NO. 66601				

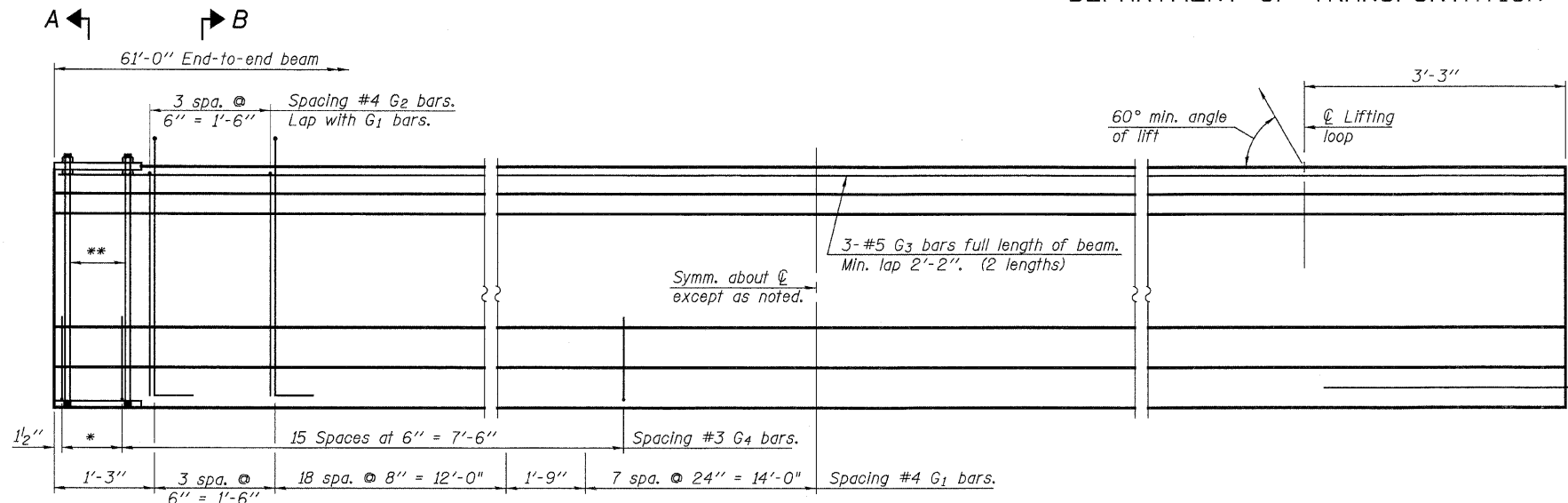


CONCRETE PARAPET
SLIPFORMING OPTION
ILLINOIS 47 OVER
NORTH FORK VERMILION RIVER
FAP ROUTE 326 SECTION (123)BR-3
LIVINGSTON COUNTY
STATION 949+25.00
STRUCTURE NO. 053-0179

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SHEET 9
OF 18

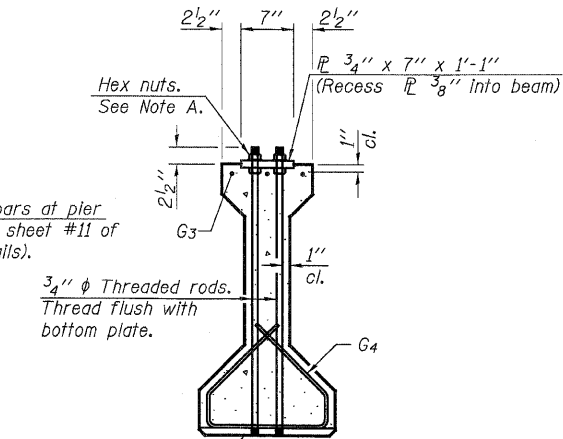
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
326	(123)BR-3	LIVINGSTON	354	131
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		
CONTRACT NO. 66601				



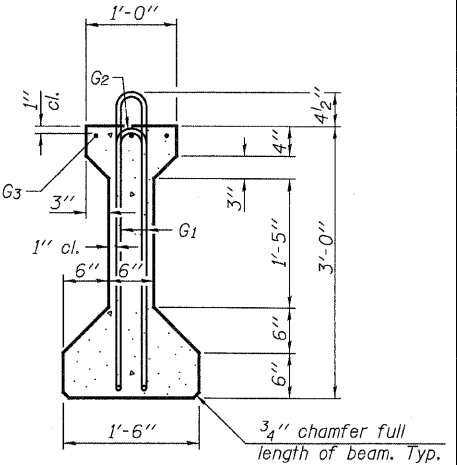
ELEVATION OF BEAM
(Showing reinforcement & dimensions)

* 3 spaces at 3" = 9"
** 4-3/4" ϕ threaded dowel rods
at 3" cts., each face.

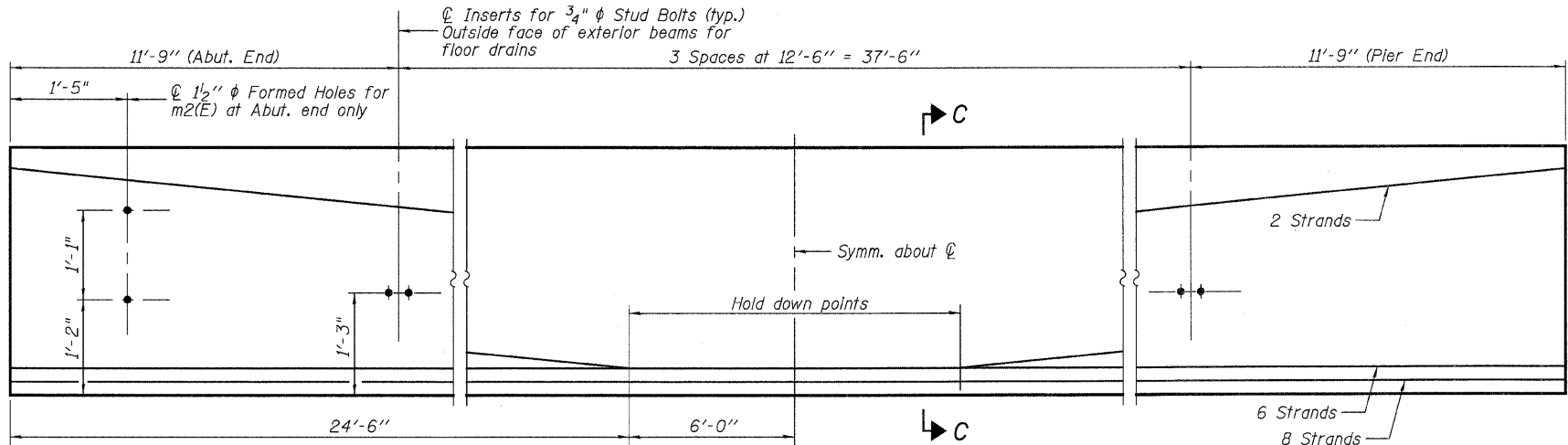
Note A:
Hex nuts (top and bottom)
with lock washers (top).
Only tighten sufficiently
to compress lock washers.



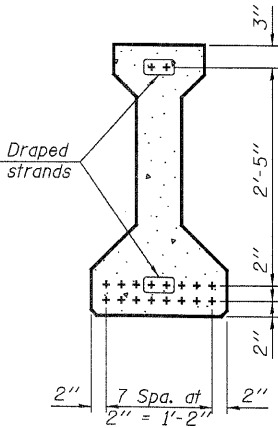
SECTION A-A



SECTION B-B



ELEVATION OF BEAM
(Showing prestressing steel)



SECTION C-C

***** BAR LIST
ONE BEAM ONLY**

Bar	No.	Size	Length	Shape
G1	59	#4	7'-5"	NL
G2	8	#4	5'-8"	N
G3	6	#5	31'-5"	—
G4	38	#3	4'-1"	—
G6	2	#8	3'-9"	—

*** For information only

Notes:
See sheet #11 of 18 for additional details
and Bill of Material.
Required release strength, f'ci, shall
be 5,000 psi.

36" PPC I-BEAM - SPANS 1 & 3
ILLINOIS 47 OVER
NORTH FORK VERMILION RIVER
FAP ROUTE 326 SECTION (123)BR-3
LIVINGSTON COUNTY
STATION 949+25.00
STRUCTURE NO. 053-0179

 Johnson, Depp & Quisenberry CONSULTING ENGINEERS Springfield, Illinois			
DESIGNED:	CDB	DRAWN:	P. Ray
CHECKED:	DCD	CHECKED:	CDB/DCD

PI-4-36

7-15-05 (with 12-21-06 Revisions)

FILE: J:\JDDQ\036 IL47 Livingston Pl2\VermillionRiver\09beam.dgn
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DATE: 11/29/2007 18:49:19

SHEET 10
OF 18

67'-6" End-to-end beam

3 spa. @ 6" = 1'-6"

Spacing #4 G₂ bars.
Lap with G₁ bars.

**

Symm. about C
except as noted.

3-#5 G₅ bars full length of beam.
Min. lap 2'-2". (2 lengths)

60° min. angle
of lift

C Lifting loop

3'-3"

1 1/2"

*

1'-3"

3 spa. @ 6" = 1'-6"

15 Spaces at 6" = 7'-6"

Spacing #3 G₄ bars.

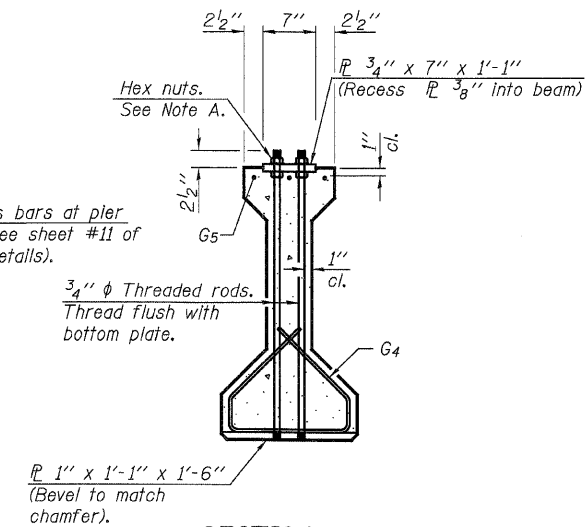
26 spa. @ 8" = 17'-4"

1'-8"

6 spa. @ 24" = 12'-0"

Spacing #4 G₁ bars.

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

[illegible]

ELEVATION OF BEAM
(Showing reinforcement & dimensions)

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

* 5 spaces at 3" = 9".
** 4- $\frac{3}{4}$ " ϕ threaded dowel rods
at 3" cts., each face.

② Inserts for $\frac{3}{4}$ " ϕ Stud Bolts (typ.)
Outside face of exterior beams for
floor drains
4 Spaces at 11'-0" = 44'-0"

11'-9" 11'-9"

1'-3" 27'-0" 6'-9"

Symm. about ②

Hold down points

2 Strands Each

6 Strands
8 Strands

A B C C

Figure 10 is a detailed cross-sectional diagram of a reinforced concrete column. The column has a central rectangular core with a width of 2 inches and a height of 2 feet 1 inch. The core is surrounded by a 3-inch thick concrete shell. The top and bottom of the column are reinforced with 7 bars each, labeled "7 Spa. at 2" = 1'-2"". The side walls are reinforced with 2 bars each, labeled "2 Spa. at 2" = 4"". The diagram also shows "Draped strands" extending from the top and bottom reinforcement into the side walls. The total height of the column is 2 feet 1 inch.

*** BAR LIST
ONE BEAM ONLY

Bar	No.	Size	Length	Shape
G ₁	73	#4	7'-5"	Π
G ₂	8	#4	5'-8"	Π
G ₄	38	#3	4'-1"	⌒
G ₅	6	#5	34'-8"	—
G ₆	4	#8	3'-9"	—

*** For information only

Notes:
See sheet #11 of 18 for additional details
and Bill of Material.
Required release strength, f'_{ci} , shall
be 5,000 psi.

ILLINOIS 47 OVER
NORTH FORK VERMILION RIVER
FAP ROUTE 326 SECTION (123)BR-3
LIVINGSTON COUNTY
STATION 949+25.00
STRUCTURE NO. 053-0179



DESIGNED: CDB	DRAWN: P. Ray
CHECKED: DCD	CHECKED: CDB/DCD

PI-4-36

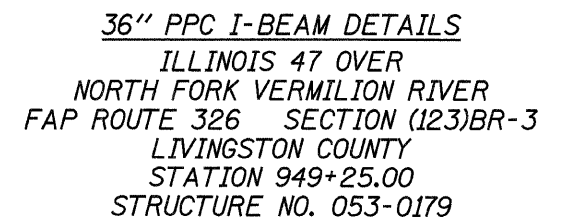
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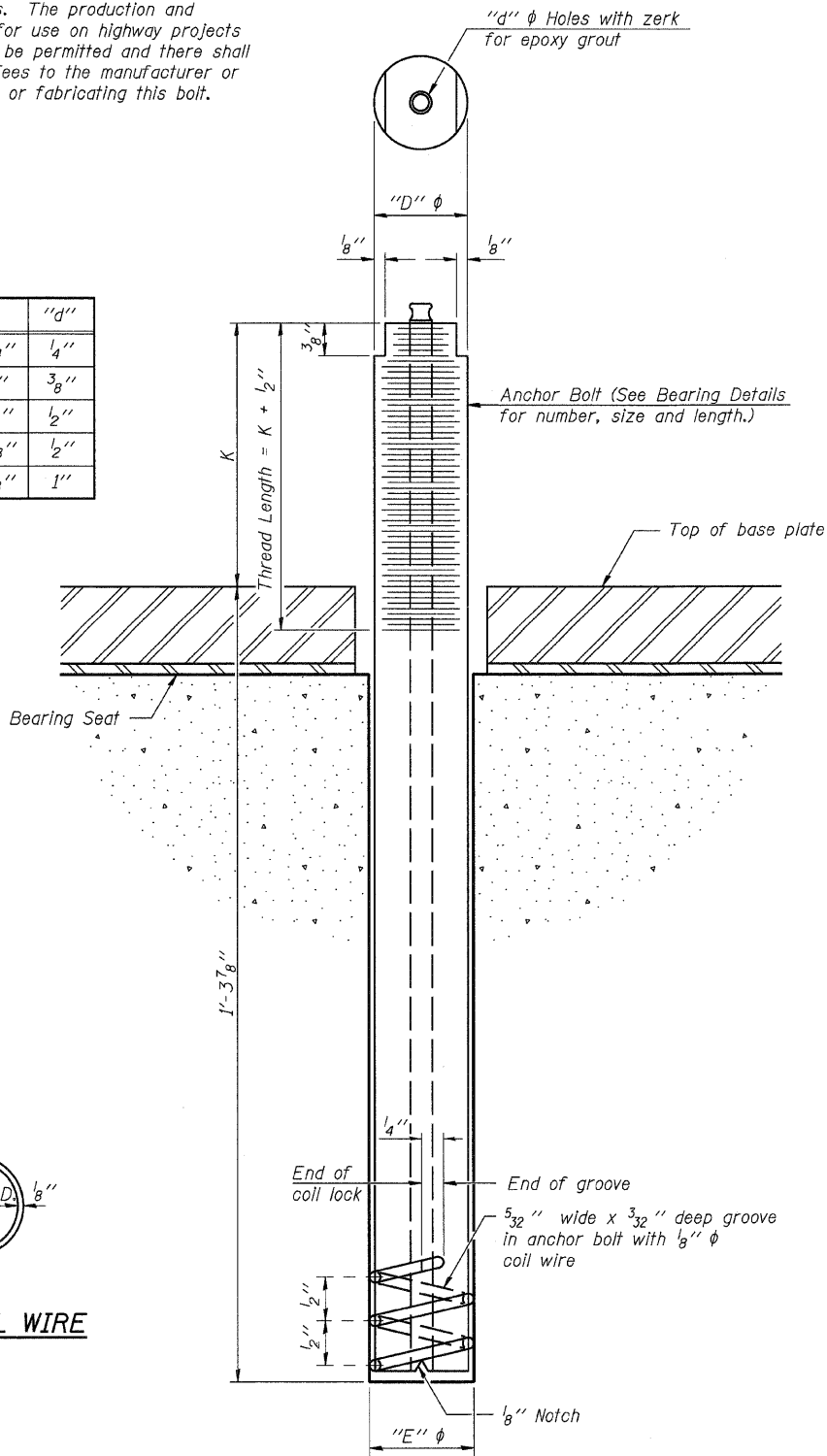
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F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
326	(123)BR-3	LIVINGSTON	354	133
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	
CONTRACT NO. 66601				

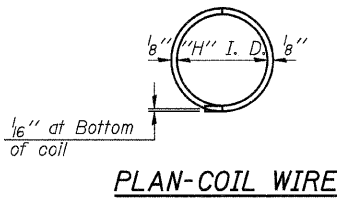


The Illinois Coil-Lock Anchor Bolt is a proprietary item which is the property of the Illinois Department of Transportation. Use, reproduction or disclosure without express written permission is prohibited and protected under Federal copyright laws. The production and the fabrication of this bolt for use on highway projects in the State of Illinois shall be permitted and there shall be no incurred charges or fees to the manufacturer or the fabricator for producing or fabricating this bolt.

D	E	H	K	"d"
1"	1 1/8"	1 3/16"	1 3/4"	1/4"
1 1/4"	1 3/8"	1 1/16"	2"	3/8"
1 1/2"	1 5/8"	1 5/16"	2 1/8"	1/2"
2"	2 1/8"	1 13/16"	2 7/8"	1/2"
2 1/2"	2 5/8"	2 5/16"	3 3/8"	1"



ILLINOIS COIL-LOCK ANCHOR BOLT



PLAN-COIL WIRE

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

MATERIALS FOR ILLINOIS COIL-LOCK
ANCHOR BOLT

The anchor bolt shall be fabricated from cold drawn or hot finished seamless carbon steel mechanical tubing conforming to ASTM A 519, Grade 1026, CW and supplied with hexagonal nuts and cut washers.
The coil wire shall be made of any suitable soft steel wire.
The finished anchor bolt shall be cleaned of rust and other foreign materials and wrapped or packaged to prevent contamination until they are installed.
The epoxy grout shall be a two-component, epoxy resin bonding system conforming to ASTM C 881, Type I, Grade 1 and of a Class suitable for the temperature at installation.

INSTALLATION PROCEDURE for the ILLINOIS
COIL-LOCK ANCHOR BOLT

1. With the coil wire in place, the bolt shall be inserted into the hole and turned clockwise to a snug fit in the hole. Nut and washer shall be placed on the bolt. The nut shall be tensioned until the steel base plates are held securely to the concrete bearing seat.
2. Epoxy grout shall be pumped through the zerk fitting with a pressure gun. Pumping shall continue until the epoxy overflows the hole around the bolt shank. After pumping is discontinued, excess epoxy shall be immediately wiped off.

ALTERNATE ANCHOR BOLTS

The Contractor may use, at his option, the capsule or the adhesive cartridge type anchor rods that have been previously tested and given a prior approval by the Department. The Contractor shall install these anchor rods in pre-drilled holes according to the manufacturer's recommendations and procedures.
The capsule or the adhesive cartridge type anchor rods shall be a two part system composed of:
1. A threaded rod stud with nut and washer of the type specified.
2. A sealed glass capsule or a sealed glass adhesive cartridge containing premeasured amounts of the adhesive chemical.

Location	Type
Piers	A307

ASTM F 1554 Grade 105, ASTM A 449 and AASHTO M 314 Grade 105 anchor bolts may be substituted for the anchor bolts shown above.

SHEET 12
OF 18

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
326	(123)BR-3	LIVINGSTON	354	134
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT	CONTRACT NO. 66601	

GENERAL NOTES

Holes in the masonry for anchor bolts shall be drilled through the base plates to the diameter and depth shown or according to the manufacturer's recommendation after beams or girders have been erected and adjusted.
Prior to setting the bolts, the holes shall be dry and all dust and loose particles shall be removed by the use of compressed air or vacuuming.
The anchor bolts, furnished and installed and including the epoxy grout or capsules shall not be paid for separately but shall be included in the unit bid price for Concrete Structures.

ANCHOR BOLT DETAILS
FOR BEARINGS

ILLINOIS 47 OVER
NORTH FORK VERMILION RIVER
FAP ROUTE 326 SECTION (123)BR-3
LIVINGSTON COUNTY
STATION 949+25.00
STRUCTURE NO. 053-0179

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Johnson, Depp & Quisenberry
CONSULTING ENGINEERS
Springfield, Illinois

DESIGNED: CDB	DRAWN: P. Ray
CHECKED: DCD	CHECKED: CDB/DCD

ABB-1

10-22-04

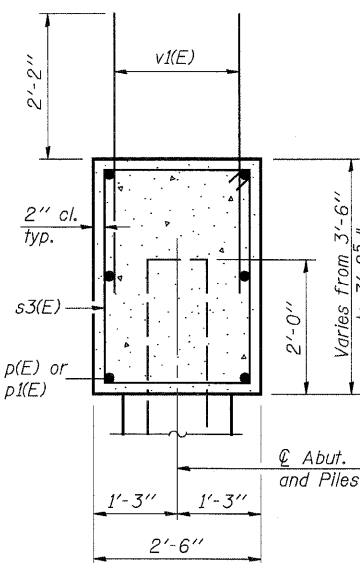
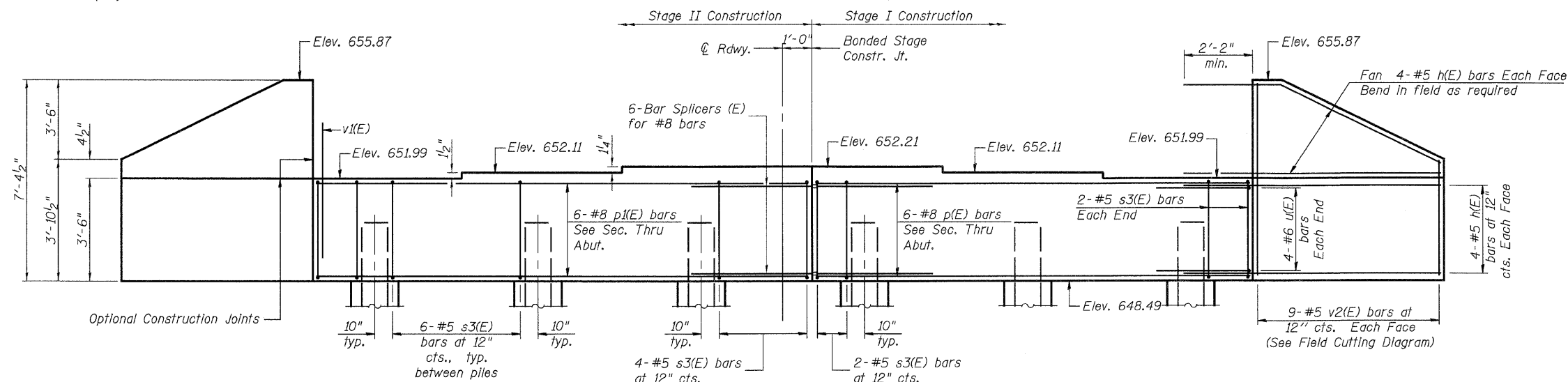
Notes: Four steps monolithically with cap.
Reinforcement bars designated (E)
shall be epoxy coated.

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SHEET 13
OF 18

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
326	(123)BR-3	LIVINGSTON	354	135
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

CONTRACT NO. 66601

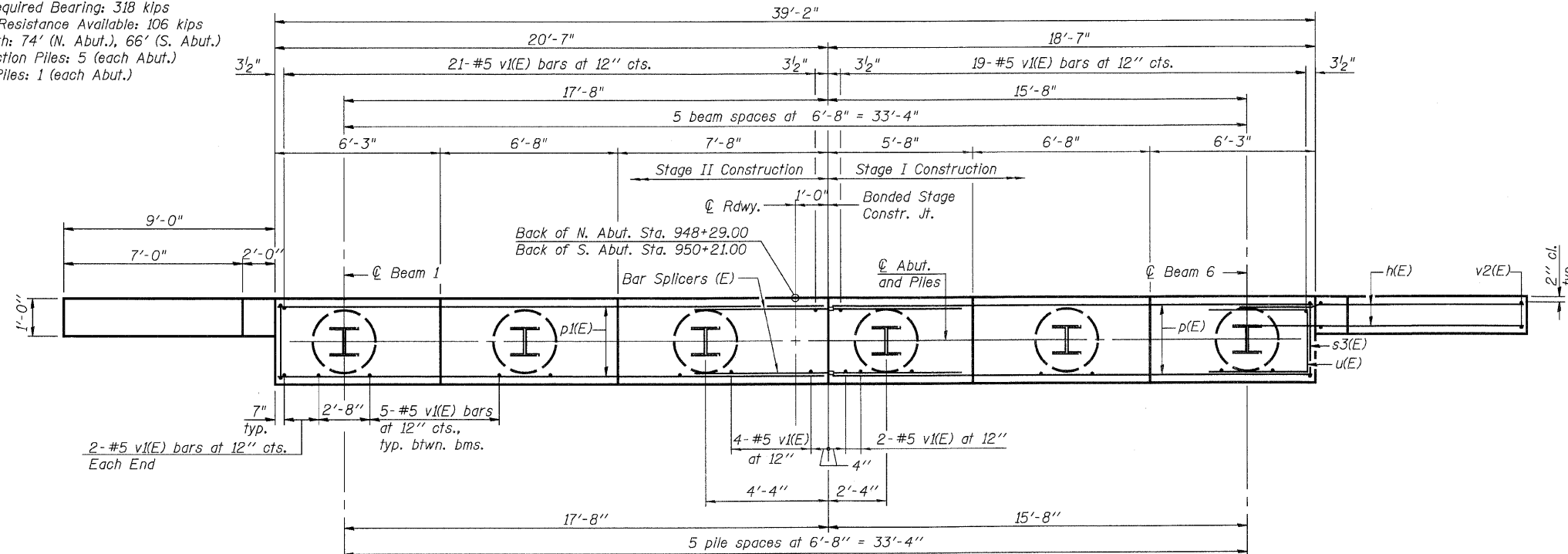


SEC. THRU ABUT.

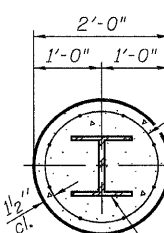
PILE DATA

Type: HP 12x53
Nominal Required Bearing: 318 kips
Allowable Resistance Available: 106 kips
Est. Length: 74' (N. Abut.), 66' (S. Abut.)
No. Production Piles: 5 (each Abut.)
No. Test Piles: 1 (each Abut.)

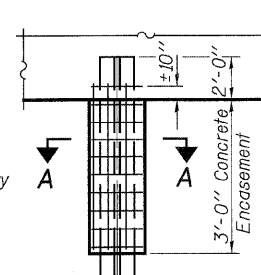
ELEVATION
(Looking South)



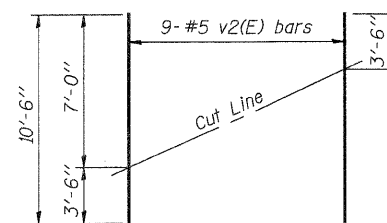
PLAN AT SOUTH ABUTMENT
(North Abutment Mirror Image)



Welded wire fabric
6 x 6-W4.0 x W4.0
weighing 58#/100 sq. ft.
The cost of Excavation,
Concrete Encasement and
Reinforcement is included
with Furnishing Piles.
Forms for Encasement may
be omitted when soil
conditions permit.

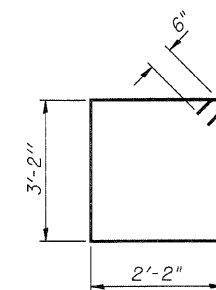


PILE ENCASEMENT DETAIL

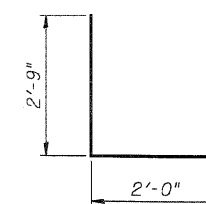


FIELD CUTTING DIAGRAM

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



BAR s2(E)



BAR u(E)

BILL OF MATERIAL

Bar	No.	Size	Length	Shape
h(E)	32	#5	11'-0"	
p(E)	6	#8	18'-3"	
p1(E)	6	#8	20'-3"	
s3(E)	34	#5	11'-8"	
u(E)	8	#6	7'-6"	
v1(E)	70	#5	4'-4"	
v2(E)	18	#5	10'-6"	
Concrete Structures				Cu. Yd. 17.2
Reinforcement Bars, Epoxy Coated				Pound 2010
Structure Excavation				Cu. Yd. 13
Furnishing Steel Piles HP12x53				Foot 370
Driving Piles				Foot 370
Test Pile Steel HP12x53				Each 1

Bill of Material for 1 Abutment only,
except as noted.

NORTH AND SOUTH ABUTMENTS
ILLINOIS 47 OVER
NORTH FORK VERMILION RIVER
FAP ROUTE 326 SECTION (123)BR-3
LIVINGSTON COUNTY
STATION 949+25.00
STRUCTURE NO. 053-0179

DESIGNED: CDB	DRAWN: P. Ray
CHECKED: DCD	CHECKED: CDB/DCD

AI-0

10-22-04

FILE: J:\DO\1036 IL47 Livingston P12\VermillionRiver\3Abutment.dgn

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Notes:
Pour steps monolithically with cap.

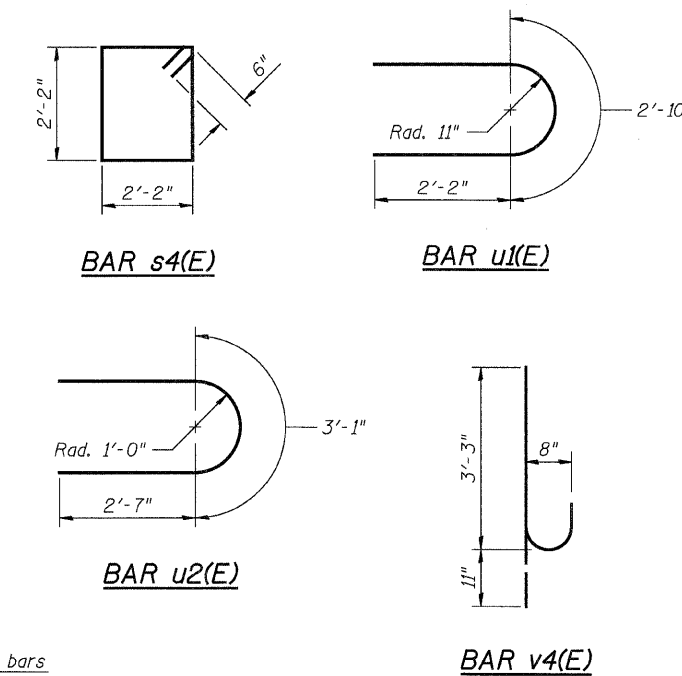
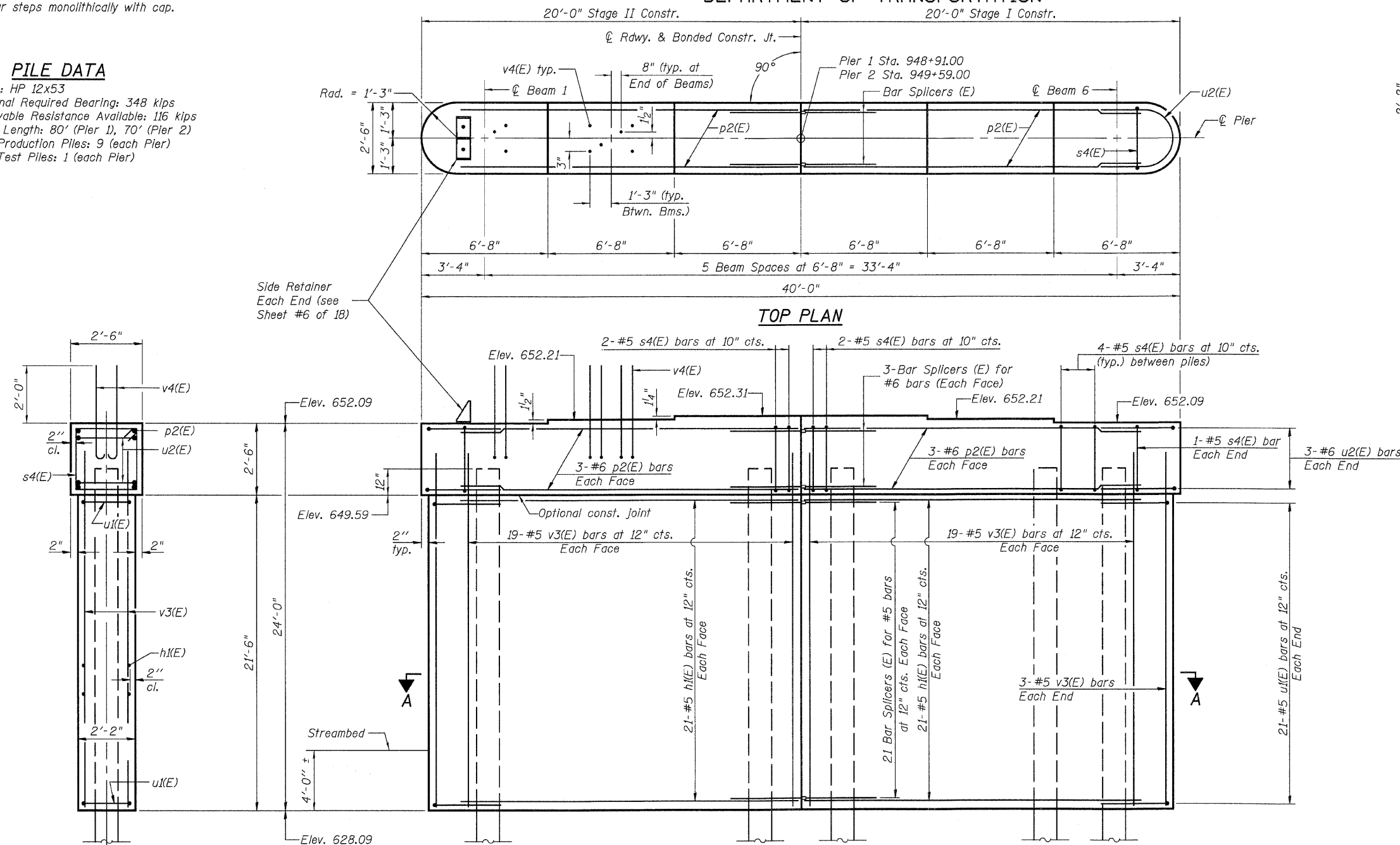
PILE DATA

Type: HP 12x53
Nominal Required Bearing: 348 kips
Allowable Resistance Available: 116 kips
Est. Length: 80' (Pier 1), 70' (Pier 2)
No. Production Piles: 9 (each Pier)
No. Test Piles: 1 (each Pier)

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

SHEET 14
OF 18

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
326	(123)BR-3	LIVINGSTON	354	136
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT	CONTRACT NO. 66601	



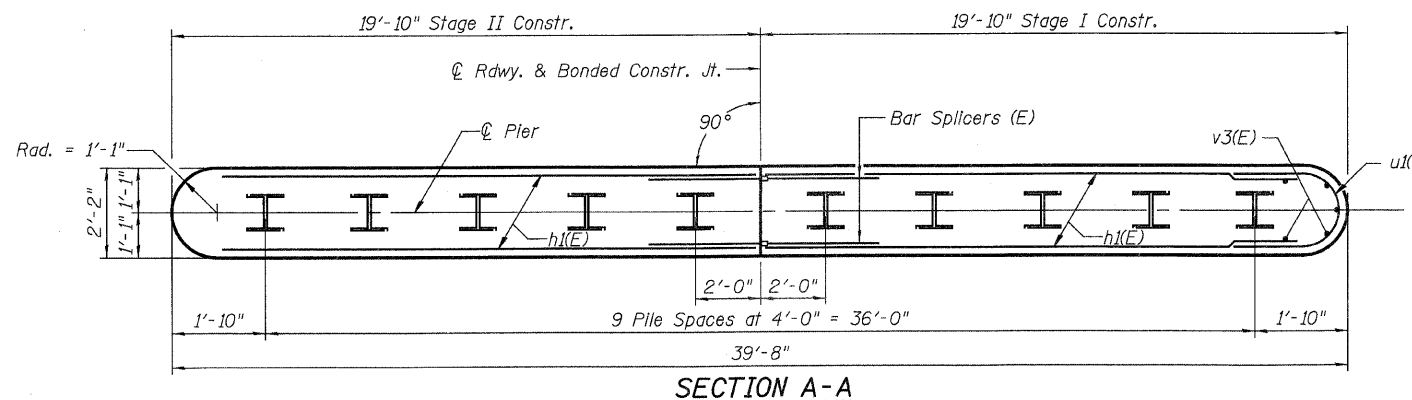
BILL OF MATERIAL

Bar	No.	Size	Length	Shape
h1(E)	84	#5	18'-7"	—
p2(E)	12	#6	18'-7"	—
s4(E)	38	#5	9'-8"	□
u1(E)	42	#5	7'-2"	U
u2(E)	6	#6	8'-3"	U
v3(E)	82	#5	22'-8"	—
v4(E)	30	#8	4'-2"	U
Concrete Structures				Cu. Yd. 77.1
Reinforcement Bars, Epoxy Coated				Pound 5010
Structure Excavation				Cu. Yd. 40
Furnishing Steel Piles HP12x53				Foot 720
Driving Piles				Foot 630
Test Pile Steel HP12x53				Each 1

Reinforcement Bars designated (E) shall be epoxy coated.
Bill of Material for 1 Pier only, except as noted.

PIERS 1 AND 2
ILLINOIS 47 OVER
NORTH FORK VERMILION RIVER
FAP ROUTE 326 SECTION (123)BR-3
LIVINGSTON COUNTY
STATION 949+25.00
STRUCTURE NO. 053-0179

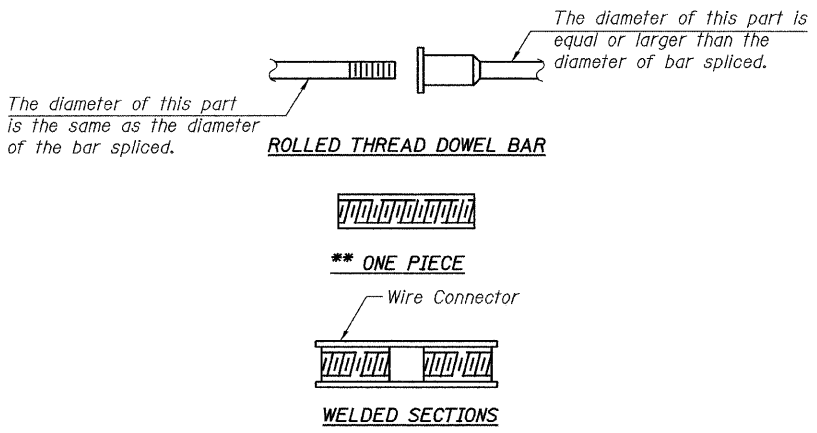
 Johnson, Depp & Quisenberry CONSULTING ENGINEERS Springfield, Illinois	
DESIGNED: CDB	DRAWN: P. Ray
CHECKED: DCD	CHECKED: CDB/DCD



STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

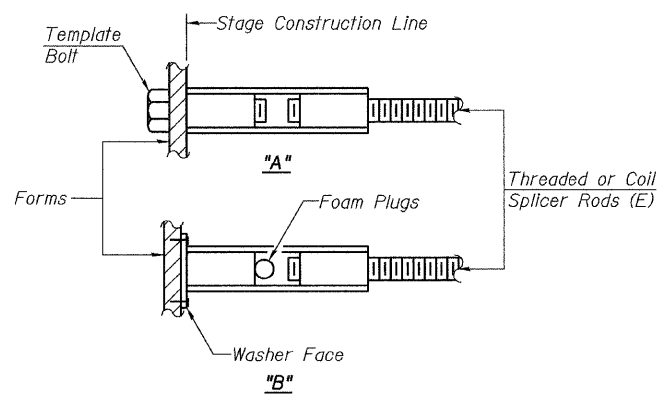
SHEET 15
OF 18

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
326	(123)BR-3	LIVINGSTON		137
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	
CONTRACT NO. 66601				



BAR SPLICER ASSEMBLY ALTERNATIVES

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

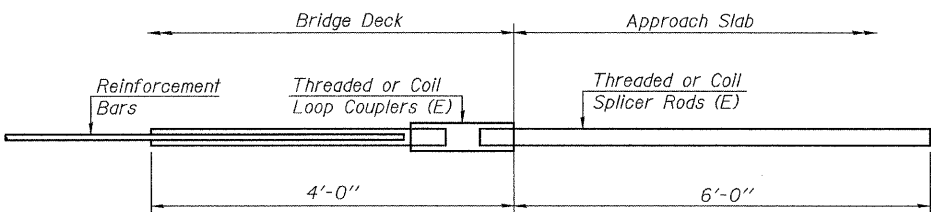


INSTALLATION AND SETTING METHODS

"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.

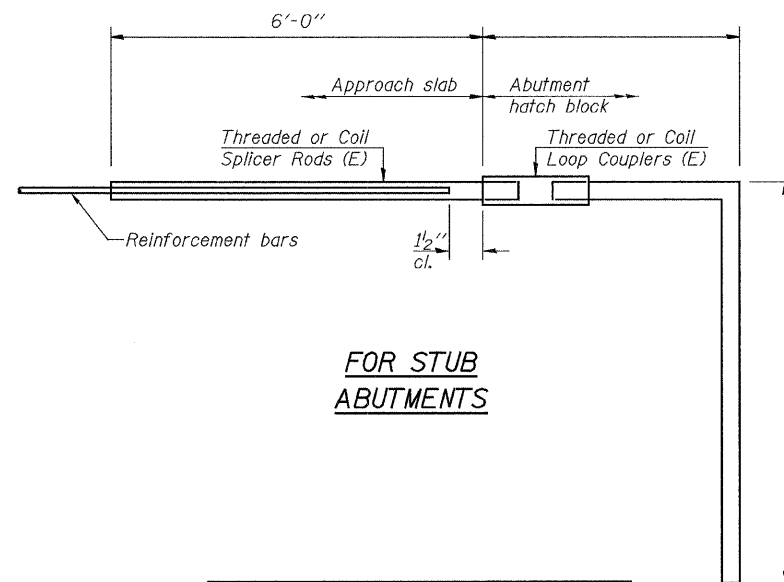
- NOTES**
- Bar splicer assemblies shall be of an approved type and shall develop in tension at least 125 percent of the yield strength of the lapped reinforcement bars.
- Splicer rods shall be of minimum 60 ksi yield strength, threaded or coiled full length.
- All reinforcement bars shall be lapped 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:
- Minimum Capacity (Tension in kips) = $1.25 \times f_y \times A_t$
 - Minimum *Pull-out Strength (Tension in kips) = $0.66 \times f_y \times A_t$
- 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



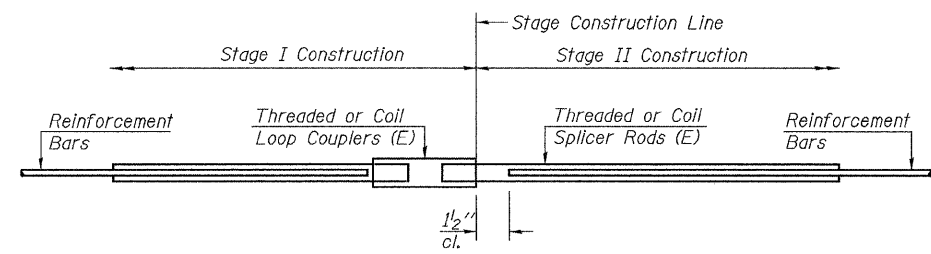
FOR INTEGRAL OR SEMI-INTEGRAL ABUTMENTS

Bar Splicer for #5 bar	
Min. Capacity = 23.0 kips - tension	
Min. Pull-out Strength = 12.3 kips - tension	
No. Required = 72	



FOR STUB ABUTMENTS

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



STANDARD

Bar Size	No. Assemblies Required	Location
#5	538	Slab
#6	16	Abut. Diaphs.
#4	12	Pier Diaphs.
#6	12	Pier Cap
#5	84	Pier Wall
#8	12	Abutments

BAR SPLICER ASSEMBLY DETAILS

ILLINOIS 47 OVER
NORTH FORK VERMILION RIVER
FAP ROUTE 326 SECTION (123)BR-3
LIVINGSTON COUNTY
STATION 949+25.00
STRUCTURE NO. 053-0179

Johnson, Depp & Quisenberry
CONSULTING ENGINEERS
Springfield, Illinois

DESIGNED: CDB	DRAWN: P. Ray
CHECKED: DCD	CHECKED: CDB/DCD

BSD-1

11-1-06

FILE: J:\UDQ-Archive\UDQ36 IL47 Livingston Ph2\1-VermilionRiver\15barsplicer.dgn
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DATE: 01/30/2008 18:05:40

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
326	(123)BR-3	LIVINGSTON	354	138
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	
CONTRACT NO. 66601				

Illinois Department of Transportation

Division of Highways
Illinois Department of Transportation

SOIL BORING LOG

Page 2 of 2

Date 12/22/03

ROUTE FAP 326 (IL 47) DESCRIPTION North Abutment LOGGED By Marcie Andrews

SECTION 123 BR-1 LOCATION SW 14, SEC. 3, TWP. 27, RNG. 7, 3rd PM

COUNTY Livingston DRILLING METHOD Hollow Stem Auger HAMMER TYPE Automatic

STRUCT. NO. 053-0050
Station 949+25

BORING NO. 1
Station 947+91
Offset 6.00ft Lt
Ground Surface Elev. 654.17 ft

D E P T H	B L O W S	U C S	M O I S T
		Qu	

Surface Water Elev.	633.61	ft
Stream Bed Elev.		ft
Groundwater Elev.:		
First Encounter		ft
Upon Completion		ft
After Hrs.		ft

D E P T H	B L O W S	U C S	M O I S T
		Qu	

Medium to Very Stiff Gray Silty Clay with Silt Pockets
Pieces of Gray Silty Clay Loam Till at 29' and 38' (continued)

4	0.8	21.7
6	B	

Hard Gray Sandy Loam Till (continued)

18	7.6	10.2
26	S	

611.17

Hard Gray Loam Till with Small Amounts of Clay Present
1" Sand Seam Present at 47'

3	4.5	12.8
9	B	
14		
11		

Very Stiff Gray Silty Clay Loam Till

591.17

13	6.6	12.3
17	S	

11		
19	7.2	13.1
28	S	

606.17

Very Loose Brown Fine Sand With Layers of Sandy Loam

WH		
WH		23.0
WH		

13		
20	8.1	16.5
28	S	

601.17

Very Stiff Gray Silt with Layers of Sand and Gravel (Varved clay at 54.5')

*All Samples were washed from +54.5'

6		
8	3.1	20.1
14	S	

End of Boring

583.17

596.17

Hard Gray Sandy Loam Till

14		
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The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)

BBS, from 137 (Rev. 8-99)

SOIL BORINGS (1 OF 3)
ILLINOIS 47 OVER
NORTH FORK VERMILION RIVER
FAP ROUTE 326 SECTION (123)BR-3
LIVINGSTON COUNTY
STATION 949+25.00
STRUCTURE NO. 053-0179



DESIGNED: <i>IDOT</i>	DRAWN: <i>JTC</i>
CHECKED:	CHECKED: <i>CDB/DCD</i>

DATE: 11/29/2007 18:19:42

SHEET 17
OF 18

SOIL BORING LOG

Page 1 of 2

Date 5/19/04

ROUTE	FAP 326 (IL 47)	DESCRIPTION	South Abutment	LOGGED BY	Larry Myers
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SECTION 123 BR-1 LOCATION SW 14, SEC. 3, TWP. 27, RNG. 7, 3rd PM

COUNTY Livingston DRILLING METHOD Hollow Stem Auger HAMMER TYPE Automatic

STRUCT. NO. <u>053-0050</u>	D	B	U	M	Surface Water Elev. _____ ft	D	B	U	M
Station <u>949+25</u>	E	L	O	O	Stream Bed Elev. _____ ft	E	L	O	O
	P	T	S	I		P	T	S	I
BORING NO. <u>2</u>	H	W	Qu	T	Groundwater Elev.: _____ ft	H	W	Qu	T
Station <u>950+58</u>					First Encounter _____ ft				
Offset <u>24.00ft L</u>					Upon Completion _____ ft				
Ground Surface Elev. <u>653.58</u> ft	(ft)	(6")	(tsf)	(%)	After _____ Hrs. _____ ft	(ft)	(6")	(tsf)	(%)

[illegible]

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



SOIL BORING LOG

Page 2 of 2

Date 5/19/04

ROUTE	FAP 326 (IL 47)	DESCRIPTION	South Abutment	LOGGED BY	Larry Myers
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SECTION 123 BR-1 LOCATION SW 1/4, SEC. 3, TWP. 27, RNG. 7, 3rd PM

COUNTY Livingston DRILLING METHOD Hollow Stem Auger HAMMER TYPE Automatic

STRUCT. NO.	053-0050	D	B	U	M	Surface Water Elev.	ft	D	B	U	M	
Station	949+25	E	L	O	I	Stream Bed Elev.	ft	E	L	O	I	
		P	T	W	S			P	T	W	S	
BORING NO.	2	H	W	Qu	T	Groundwater Elev.:		H	W	Qu	T	
Station	950+58					First Encounter	ft					
Offset	24.00 ft Lt					Upon Completion	ft					
Ground Surface Elev.	565.58	(ft)	(6")	(tsf)	(%)	After	Hrs.	ft	(ft)	(6")	(tsf)	(%)

[illegible]

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

SOIL BORINGS (2 OF 3)
ILLINOIS 47 OVER
NORTH FORK VERMILION RIVER
FAP ROUTE 326 SECTION (123)BR-3
LIVINGSTON COUNTY
STATION 949+25.00
STRUCTURE NO. 053-0179



Johnson, Depp & Quisenberry
CONSULTING ENGINEERS
Springfield, Illinois

DESIGNED: <i>IDOT</i>	DRAWN: <i>JTC</i>
CHECKED:	CHECKED: <i>CDB/DCD</i>

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
326	(123)BR-3	LIVINGSTON	354	140
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	
CONTRACT NO. 66601				

[illegible]

SOIL BORINGS (3 OF 3)
ILLINOIS 47 OVER
NORTH FORK VERMILION RIVER
FAP ROUTE 326 SECTION (123)BR-3
LIVINGSTON COUNTY
STATION 949+25.00
STRUCTURE NO. 053-0179

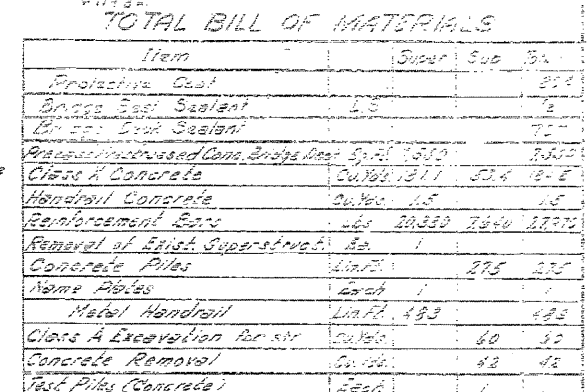
 Johnson, Depp & Quisenberry CONSULTING ENGINEERS Springfield, Illinois	
DESIGNED: <i>IDOT</i>	DRAWN: <i>JTC</i>
CHECKED:	CHECKED: <i>CDB/DCD</i>

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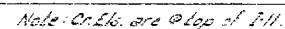
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EXISTING SN. 053-0050 AS-BUILT
PLANS-FOR INFORMATION ONLY-
STRUCTURE TO BE REMOVED



Class X Concrete shall be used throughout except in end posts.
Handrail Concrete shall be used in end posts.
The Concrete floor slab of approach abutment shall be finished in accordance with Article 511 of 3rd Specifications.
All steel handrail posts shall be vertical.
The exposed faces of the 4"x4"x2' expansion grout sleeves shall receive two shop coats of red lead paint.
Cost of furnishing and application of paint shall be included in the unit price for Precast Prestressed Concrete Bridge Deck.
The Contractor shall drive 1 concrete bed, side of the Approach Bend in permanent location as directed by the Engineer before ordering remainder of piers.
Protective coat shall be applied inside deck and on all surfaces of piers.
Bridge Deck sealant shall be applied to joints of approaches near between spans before application of the wearing surface.



WATERWAY INFORMATION

Drainage Area.....	143,744 Acres
Character.....	Level & Rolling
Required Opening.....	1,614 Sq. Ft.
Present Opening.....	1,619 Sq. Ft.
Proposed Opening.....	1,619 Sq. Ft.
Ordinary water elev.	
Low water elev. 50.56	

DEPT. OF DEFENSE - ARMY UNITS

1c = 3,000 p.s.i.
 1d = 4,000 p.s.i.
 1e = 250,000 p.s.i. (Cables)
 1f = 40,000 p.s.i.
 1g = 10,000 p.s.i. (Struts)

$i_c = 1,400 \text{ p.s.i.}$

Is: 20,000 p.s.i. Reinf.
Is: 12,000 p.s.i. Struct.
n: 10

LOADING H-20-S/M-44

FROM F-15704)
NORTH FORK VERMION RIVER
S. E. 1/4 57 SEC. 12 E. 21
LINCOLN COUNTY
374 440 + 25.

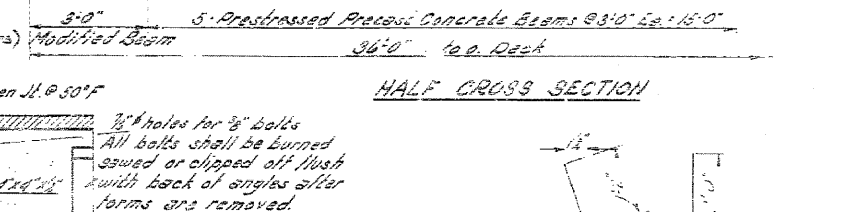
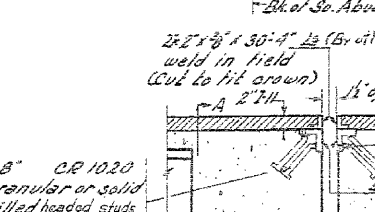
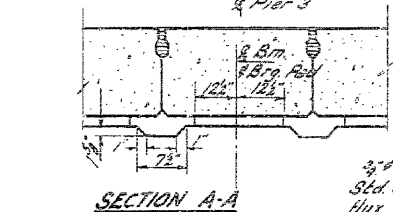
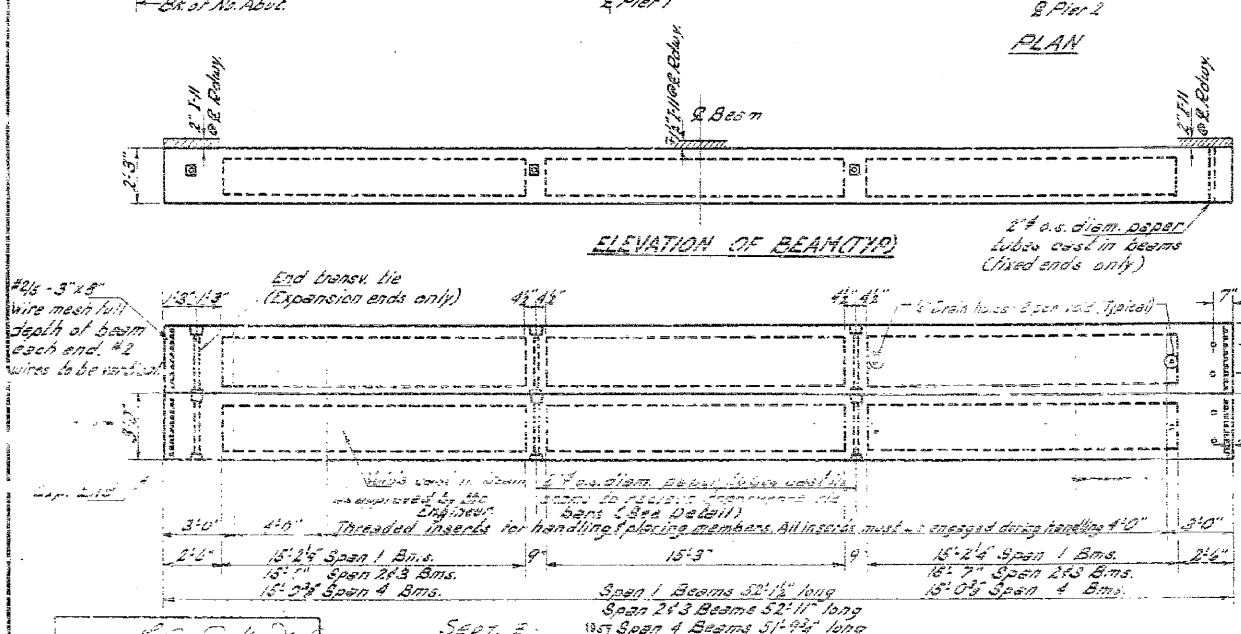
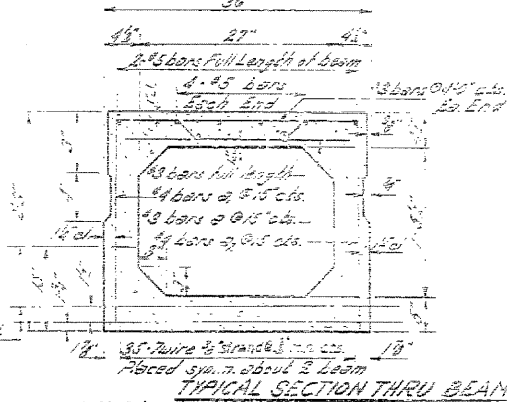
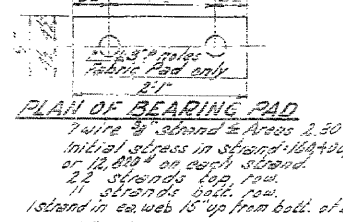
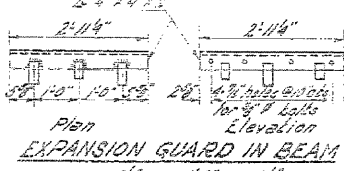
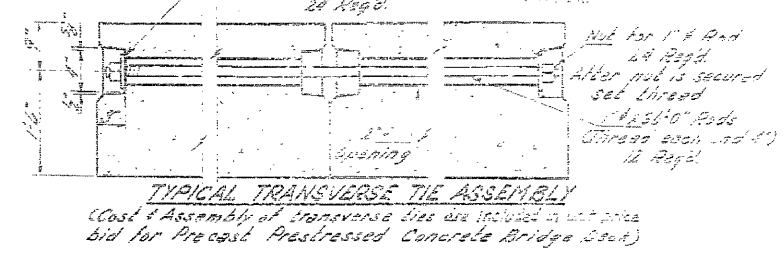
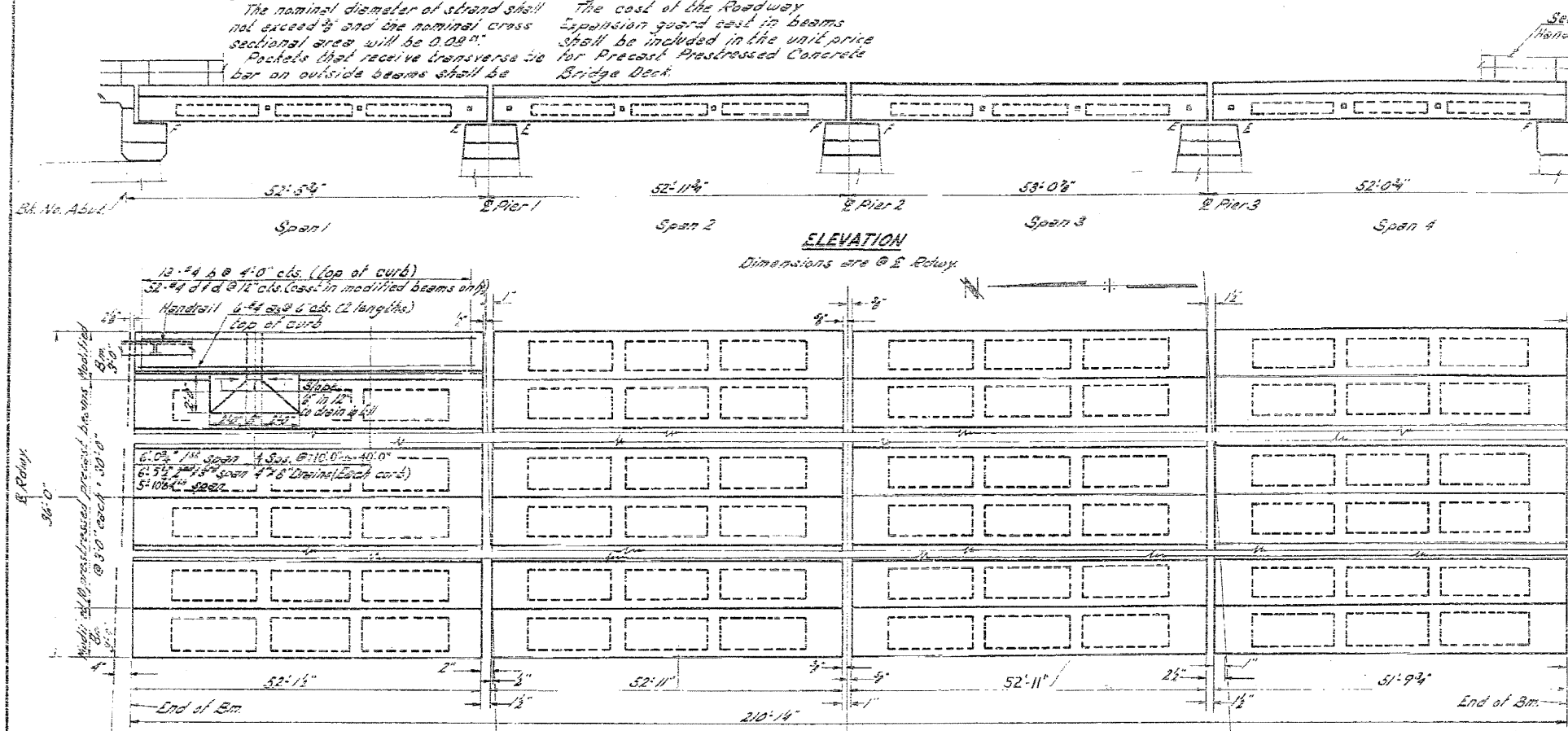
_____ SEPT 30 19 5
 EXAMINED M. L. R. [Signature]
 ENGINEER OF BRIDGE AND TRAFFIC STRUCTURES
 PASSED [Signature]
 ENGINEER OF DESIGN
 APPROVED R. L. [Signature]

Added Bridge Deck Sealant 107 sq yds, Protective Coat 204 sq yds, Bridge Slat Sealant 1/2 Lump sum Reused reinforcement bars from 27,960 lbs. to 27,970 lbs.

GENERAL NOTES FOR SUPERSTRUCTURE
For Item Precast Prestressed Concrete filled with grout after transverse Bridge Deck. See Supplemental Specifications. The assembly is in place. Strand used as prestressing element. The 1" rods in the transverse tie shall be nongalvanized high strength assembly shall be tightened to a stress relieved 7-wire strand. The nominal diameter of strand shall not exceed 3/8" and the nominal cross sectional area will be 0.09 sq. in. Packets that receive transverse tie bar on outside beams shall be Bridge Deck.

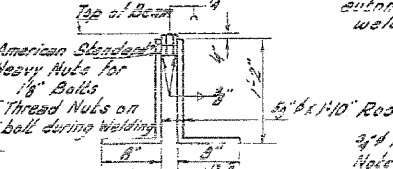
STATE OF ILLINOIS
DEPARTMENT OF PUBLIC WORKS & BUILDINGS
DIVISION OF HIGHWAYS

EXISTING SN. 053-0050 AS-BUILT
PLANS FOR INFORMATION ONLY.
STRUCTURE TO BE REMOVED



DESIGNED: C. J. K. K. K.
CHECKED: J. K. K.
DRAWN: J. K. K.
CHECKED: J. K. K.

PLAN OF BEAM (TYP)
Contractor shall verify all dimensions in the field before fabricating beams



Note: Cost of d.d. bars is included in the unit price bid for precast precast concrete deck.

Bar	No.	Size	Length	Shape
1	40	#4	25' 5"	
2	104	#4	2'-6"	

Precast Prestressed Concrete Bridge Deck 3 piers 1000'

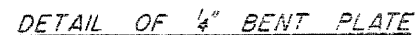
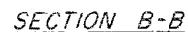
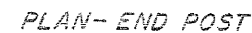
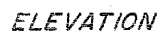
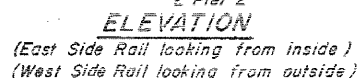
Class of Concrete 50 Yds. 40.5

Reinforcement Bars Lbs. 1870

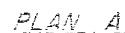
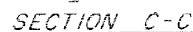
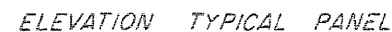
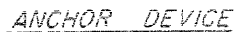
Removal of Excess Grout 1500'

SUPERSTRUCTURE
(Precast Prestressed Concrete Bridge Deck)
NORTH FORK VERMILION RIVER
S.B. & R. 47
JUN 1963 BR-1
JUN 1963 BR-1
STA. 949 + 25

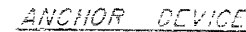
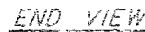
EXISTING SN. 053-0050 AS-BUILT
PLANS-FOR INFORMATION ONLY-
STRUCTURE TO BE REMOVED



For those over Rdwy. Exp. Jts.
See PLAN B below

[illegible]

For Single Error at each
End of Tube

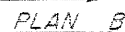
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GENERAL NOTES

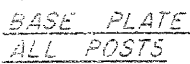
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BILL OF MATERIALS	
16	100
16	453
Reinforcement Bars	100
Handrail Concrete	15

HANDRAIL DETAILS
S.B.I. RT. 42 - SEC. 125 BR-1
LIVINGSTON COUNTY
STATION 949+25



Bent Plate to be used at Panel joints
over roadway expansion joints



ALL POSTS



DETAIL OF RAIL

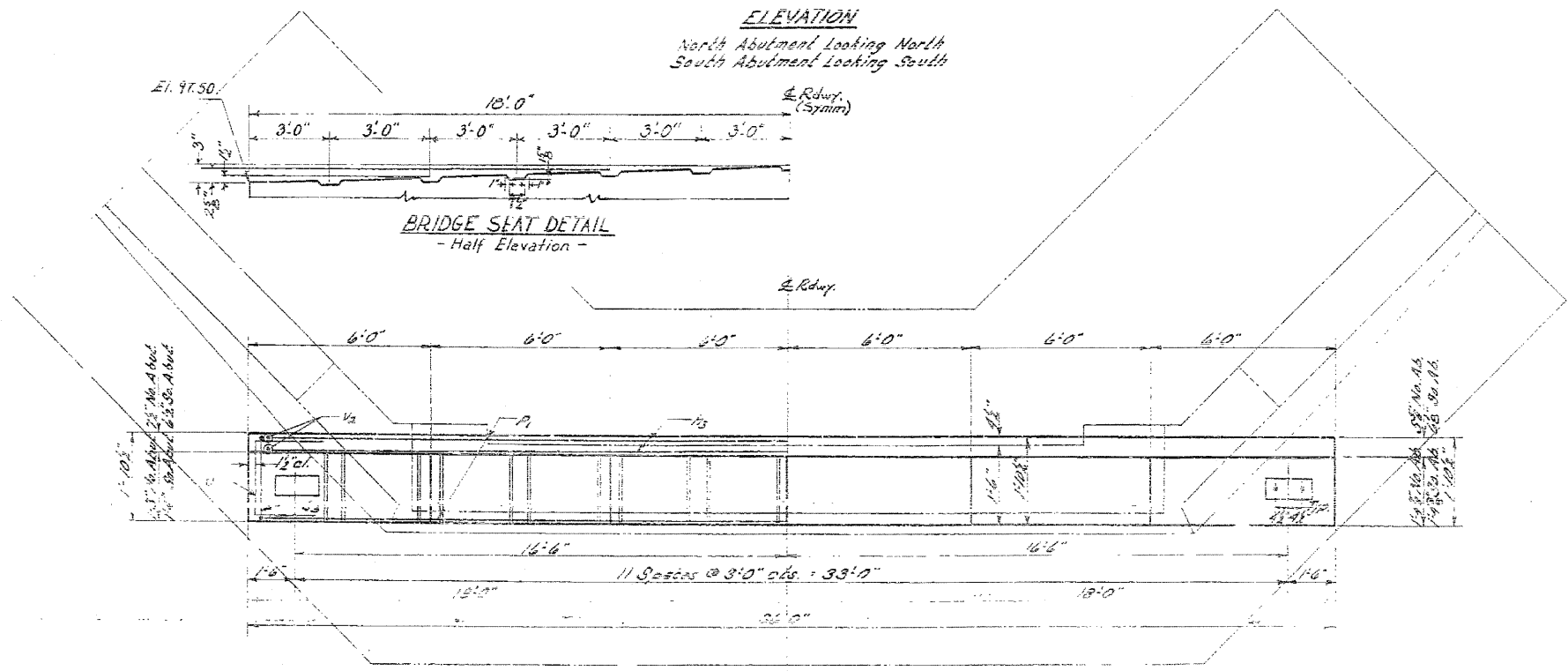
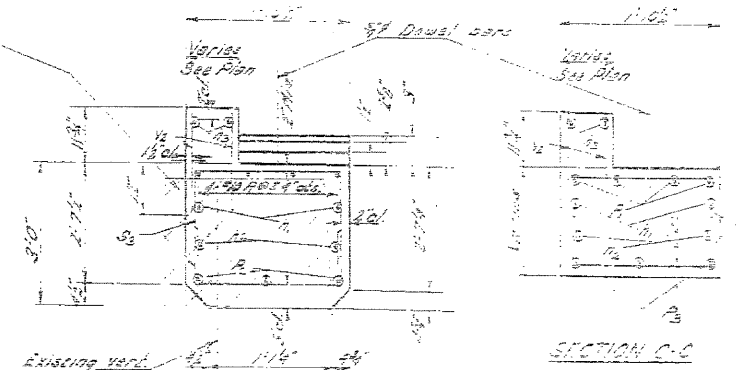
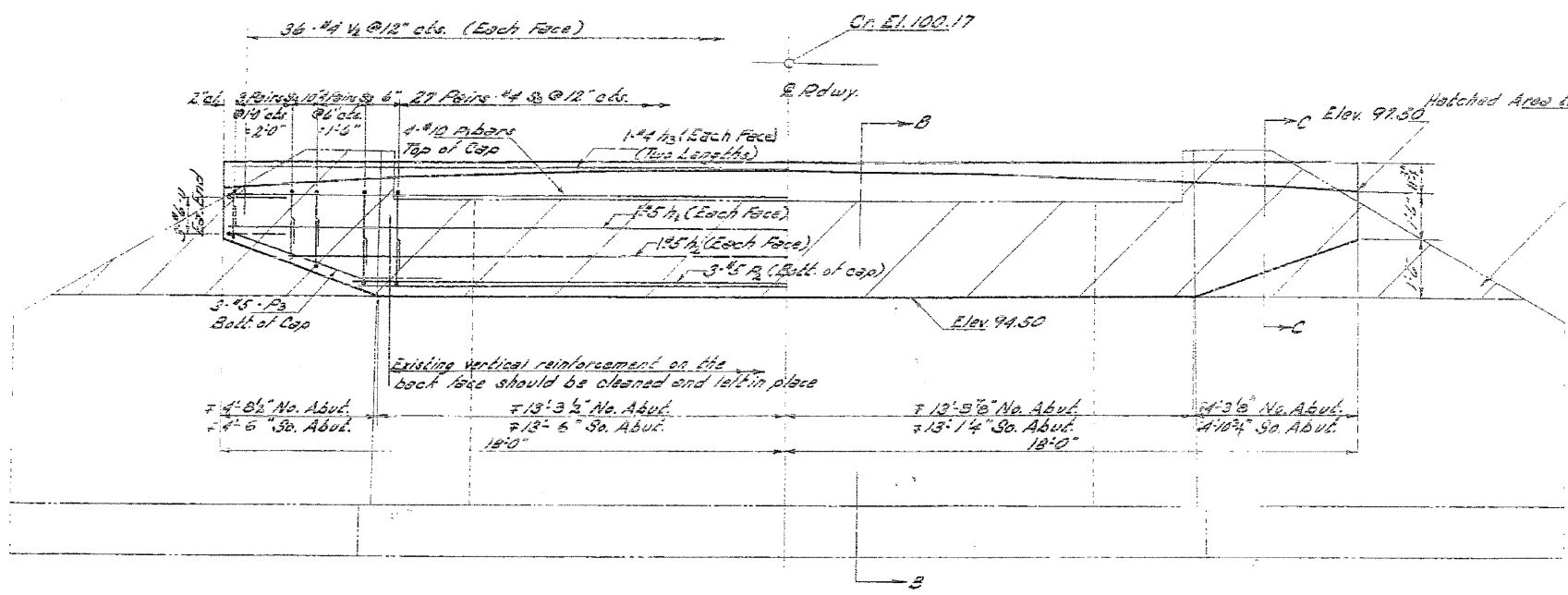
DESIGNED	EXAMINED
CHECKED	PAIRED
DRAWN <i>W A Gauseman</i>	APPROVED
CHECKED	

R-12 (A) Drawn 4-18-60

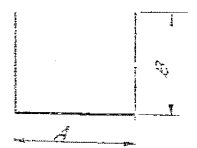
STATE OF ILLINOIS
DEPARTMENT OF PUBLIC WORKS & BUILDINGS
DIVISION OF HIGHWAYS

EXISTING SN. 053-0050 AS-BUILT
PLANS FOR INFORMATION ONLY-
STRUCTURE TO BE REMOVED

DATE	10/1/59
BY	J. H. ...
CHECKED	...
APPROVED	...



SECTION B-B



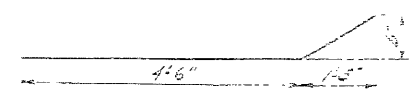
BAR S2, S4 & U

Bar	A	B
S2	1'0 1/2	1'0 1/2
S4	1'0 1/2	1'0 1/2
U	1'0 1/2	1'0 1/2

TABLE FOR
A & B DIMENSIONS

NORTH & SOUTH ABUTMENTS				
Bar	No.	Size	Length	Stage
S1	2	#5	35'-8"	
S2	4	#5	50'-8"	
S3	3	#4	18'-4"	
S4	20	#4	5'-1"	
S5	24	#4	4'-0"	
S6	3	#5	35'-8"	
S7	2	#5	26'-0"	
S8	10	#5	8'-1"	
S9	12	#6	4'-6"	
S10	24	#4	1'-0"	

Class I Concrete Compressive Strength 3000
Reinforcement Bars 60,000
Concrete Removal 2000



BAR P3

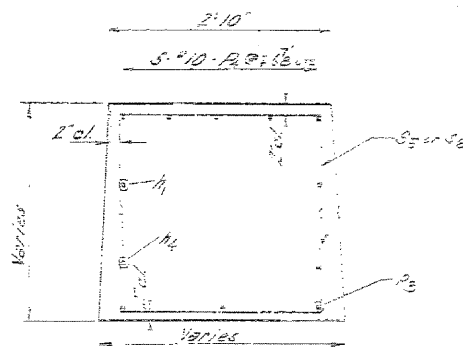
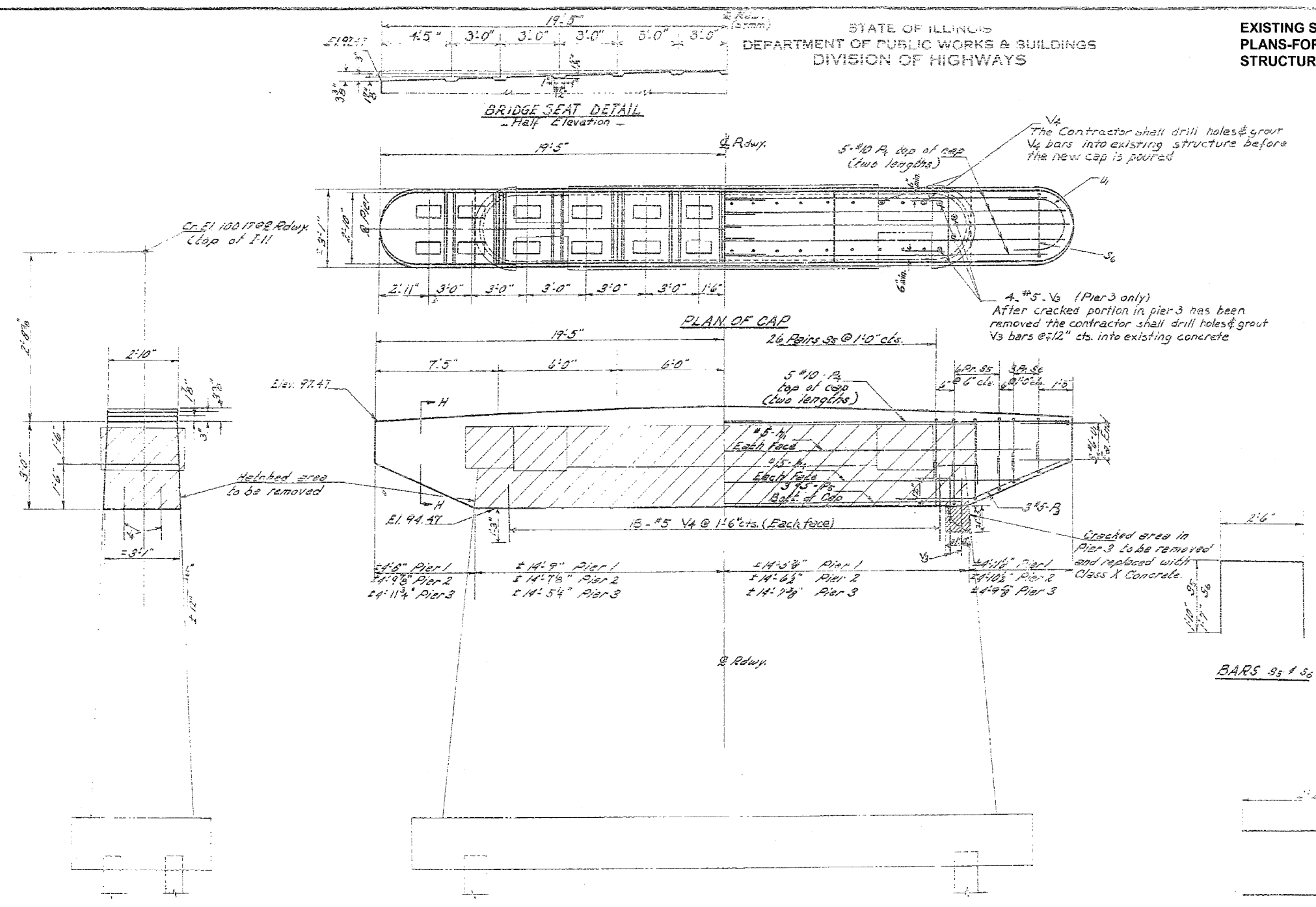
NORTH & SOUTH ABUTMENTS
NORTH FORK VERMILION RIVER
S.B. RT. 97 SEC. 12S-3E
JUNINGSTON COUNTY
STA. 949+30

DESIGNED	...
CHECKED	...
DRAWN	P. Lawler
CHECKED	H.K.
EXAMINED	...
PASSED	...
APPROVED	...

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

EXISTING SN. 053-0050 AS-BUILT
PLANS FOR INFORMATION ONLY
STRUCTURE TO BE REMOVED

DATE	NO.	BY	CHKD.	APPD.
11/15/57	1	W. J. ...	...	...
11/15/57	2	...	...	...
11/15/57	3	...	...	...
11/15/57	4	...	...	...
11/15/57	5	...	...	...
11/15/57	6	...	...	...
11/15/57	7	...	...	...
11/15/57	8	...	...	...
11/15/57	9	...	...	...
11/15/57	10	...	...	...



PIERS 1, 2 & 3
BILL OF MATERIAL

Bar	No.	Size	Length	Splice
A ₁	6	#5	35'-0"	---
A ₂	6	#5	32'-2"	---
A ₃	18	#5	6'-1"	---
A ₄	30	#10	20'-4"	---
A ₅	9	#5	28'-0"	---
S ₅	225	#4	6'-0"	---
S ₆	36	#4	5'-8"	---
U ₁	18	#6	6'-9"	---
V ₃	4	#5	3'-6"	---
V ₄	108	#5	2'-6"	---
Class X Concrete			Cu. Yds.	37.6
Reinforcement Bars			Lbs.	4,597
Concrete Removal			Cu. Yds.	30

DESIGNED: *W. J. ...*
CHECKED: *A. Rayant*
DRAWN: *P. Lower*
CHECKED: *A. K.*

EXAMINED: *...*
PASSED: *...*
APPROVED: *...*

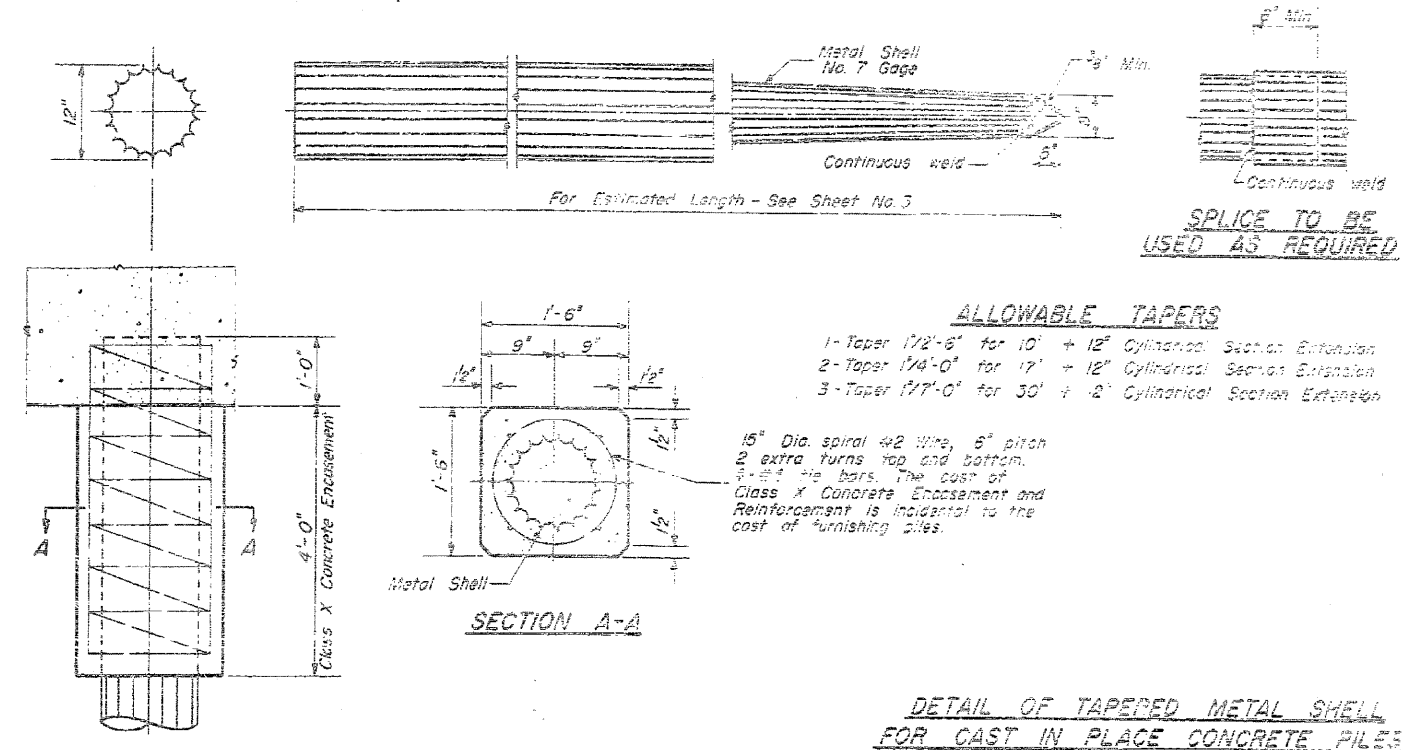
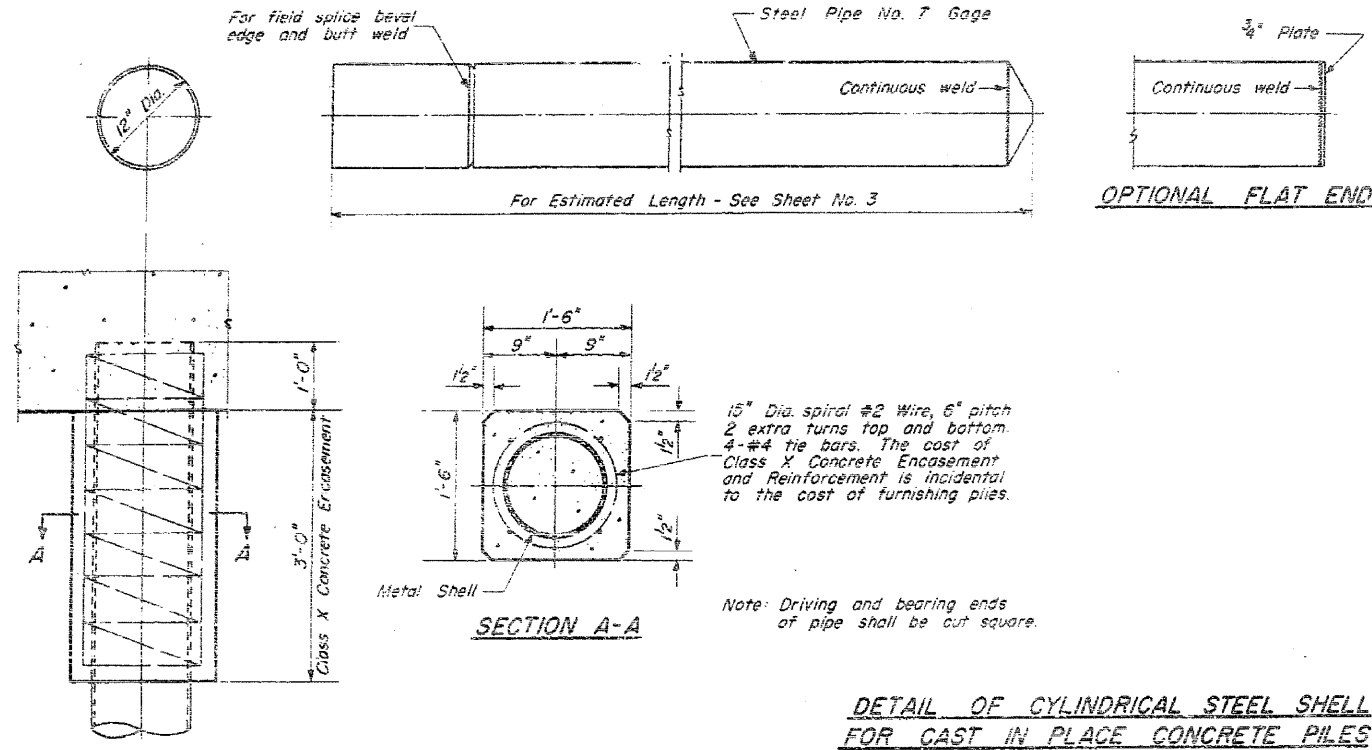
SEPT. 30 1957

PIERS 1, 2 & 3
NORTH FORK VERMILLION RIVER
S.B. 1 RT. 97 SEC. 13 3R-1
LIVINGSTON COUNTY
STA. 849 + 25.00

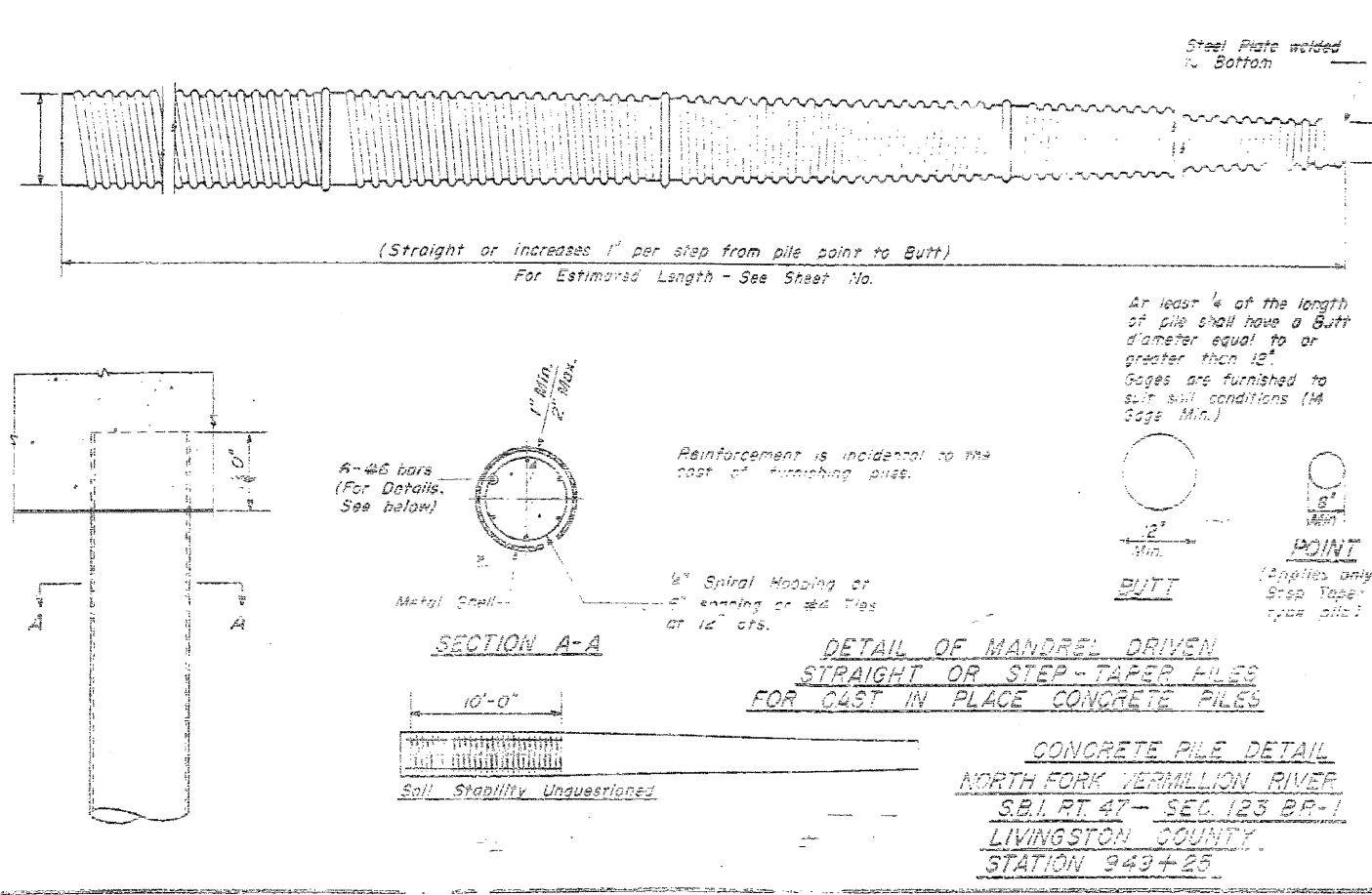
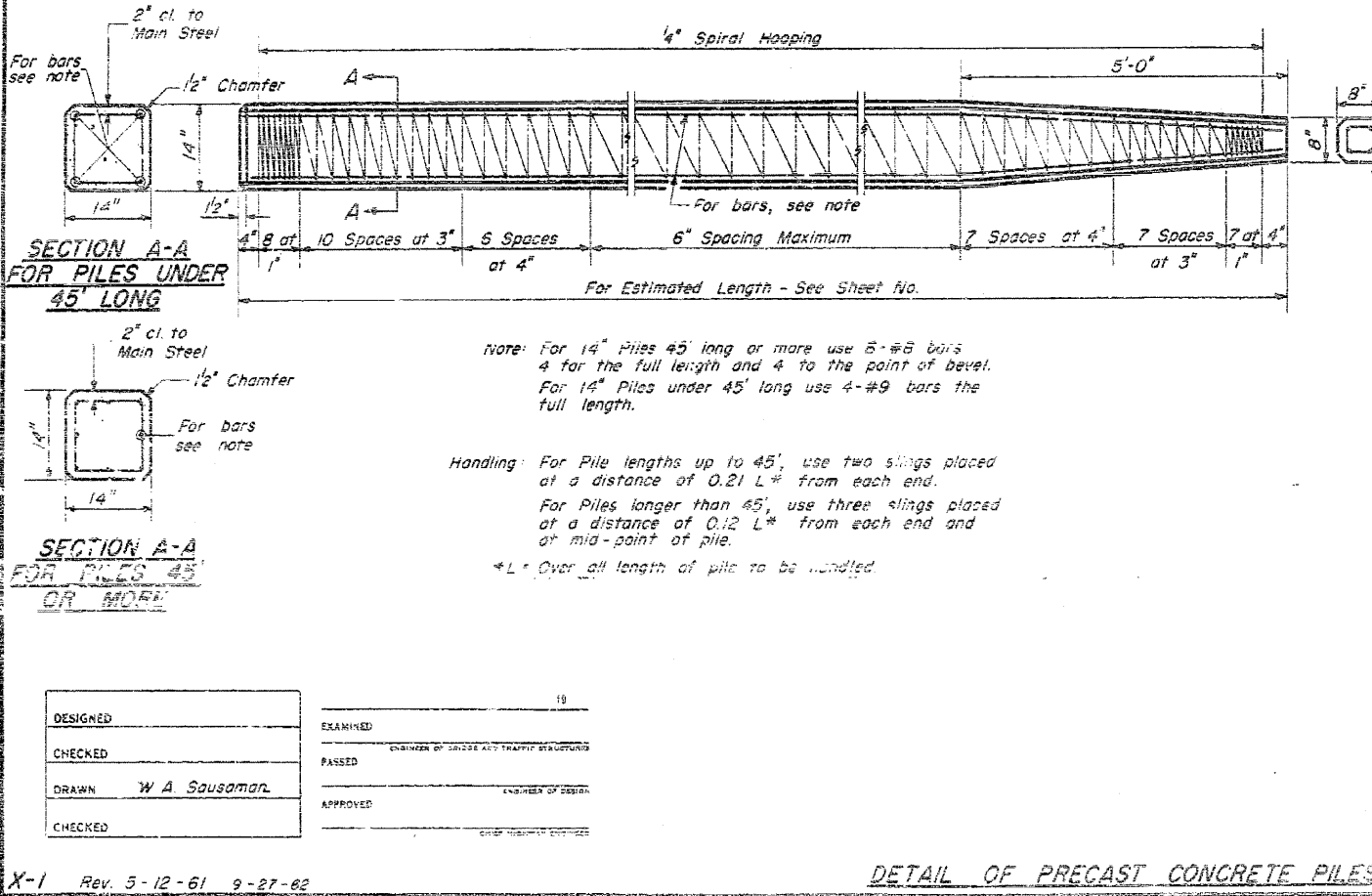
STATE OF ILLINOIS
DEPARTMENT OF PUBLIC WORKS & BUILDINGS
DIVISION OF HIGHWAYS

EXISTING SN. 053-0050 AS-BUILT
PLANS FOR INFORMATION ONLY-
STRUCTURE TO BE REMOVED

DATE	12/1/54	BY	W.A.S.	NO.	147
REVISION		BY		NO.	
1	12/1/54	W.A.S.	12/1/54	147	
2	12/1/54	W.A.S.	12/1/54	147	



- ALLOWABLE TAPERS
- 1-Taper 1/2'-6" for 10' + 12" Cylindrical Section Extension
 - 2-Taper 1/4'-0" for 17' + 12" Cylindrical Section Extension
 - 3-Taper 1/7'-0" for 30' + 12" Cylindrical Section Extension

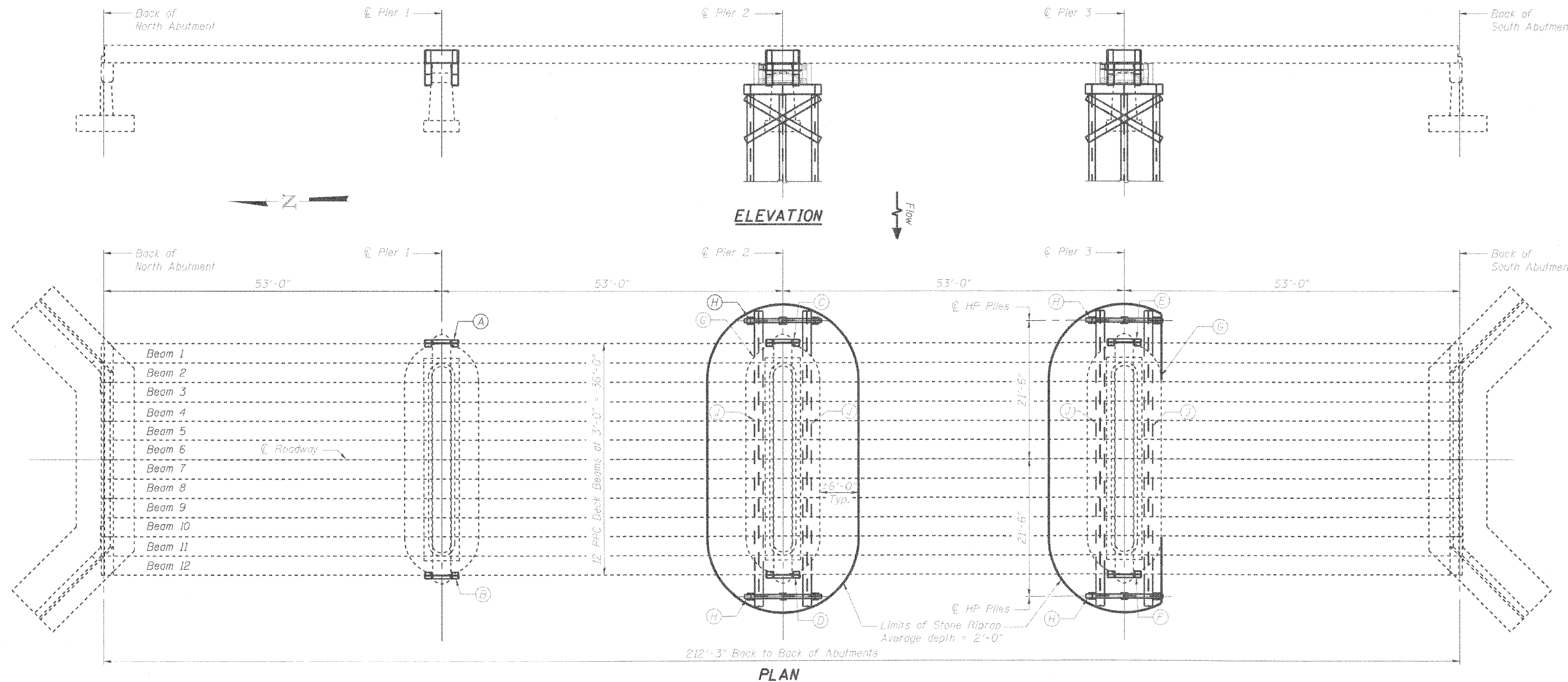


DESIGNED	EXAMINED
CHECKED	PASSED
DRAWN W.A. Sausman	APPROVED
CHECKED	

CONCRETE PILE DETAIL
NORTH FORK VERMILLION RIVER
S.B.I. RT. 47- SEC. 123 BR-1
LIVINGSTON COUNTY
STATION 943+25

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATIONEXISTING SN. 053-0050 EMERGENCY
REPAIR PLANS - FOR INFORMATION ONLY -
STRUCTURE TO BE REMOVED

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		Livingston	354	148
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT		

SHEET NO. 1
4 SHEETS**CONSTRUCTION SEQUENCE**

1. Install pier containment brackets.
2. Grout joints at Piers 1 and 3.
3. Install steel sheeting, angles and cables at Piers 2 and 3. Place grout slurry under existing Pier footings at Piers 2 and 3.
4. Install Superstructure Support System.
5. Place Stone Riprap at Piers 2 and 3. Riprap may be placed against sheeting to hold sheeting during grout slurry placement. Riprap at pile locations to be placed after completing support system.

TOTAL BILL OF MATERIAL

ITEM	UNIT	QUANTITY
Furnishing and Erecting Structural Steel	Pound	63980
Furnishing Steel Piles HP12x53	Foot	1200
Driving Steel Piles	Foot	1200
Stone Riprap, Class A4	Ton	120
Grout Slurry	Cu. Yd.	12.0
Grout Repair	Foot	72
Cofferdam Repair	Sq. Ft.	1750

GENERAL NOTES

All structural steel shall conform to AASHTO Classification M-270 Gr. 50, unless otherwise noted.

Fasteners shall be high strength bolts. Bolts $\frac{7}{8}$ " ϕ , open holes $\frac{15}{16}$ " ϕ , unless otherwise noted.

Plan dimensions and details relative to 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 cause for additional compensation for a change in the scope of the work, however, the Contractor will be paid for the quantity actually furnished at the unit price bid for the work.

All structural steel shall be shop painted with the inorganic zinc rich primer per AASHTO M300, Type I. Cost included with Furnishing and Erecting Structural Steel.

Diaphragm connection holes shall be $\frac{15}{16}$ " ϕ for $\frac{3}{4}$ " ϕ bolts. Two hardened washers shall be required at diaphragm connections.

Contractor may substitute for the W40x215 with an equivalent built-up section with a minimum Section Modulus of $S_x = 858 \text{ in}^3$.

- (A) Pier Containment Bracket P1E See Sheet 2 of 4.
- (B) Pier Containment Bracket P1W See Sheet 2 of 4.
- (C) Pier Containment Bracket P2E See Sheet 2 of 4.
- (D) Pier Containment Bracket P2W See Sheet 2 of 4.
- (E) Pier Containment Bracket P3E See Sheet 2 of 4.
- (F) Pier Containment Bracket P3W See Sheet 2 of 4.
- (G) Pier Cofferdam and Grout Repair See Sheet 3 of 4.
- (H) Superstructure Support System End Brace See Sheet 4 of 4.
- (J) Superstructure Support System Cross Beam See Sheet 4 of 4.

DESIGNED
CHECKED
DRAWN
CHECKED

EXAMINED
ENGINEER OF STRUCTURAL SERVICES
PASSED
ENGINEER OF BRIDGES AND STRUCTURES

PLAN AND ELEVATION**S.B.I. RT. 47****LIVINGSTON COUNTY****SN 053-0050**

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

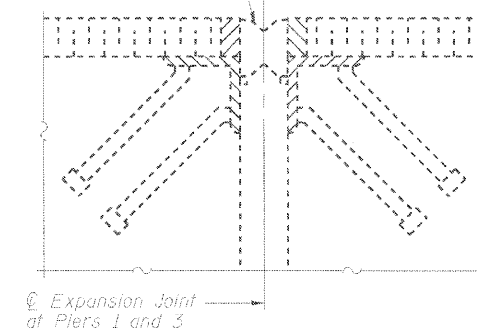
ROUTE NO.	SECTION	COUNTY	JOINT SHEETS	SHEET NO.
		Livingston	354	149
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT		

SHEET NO. 2

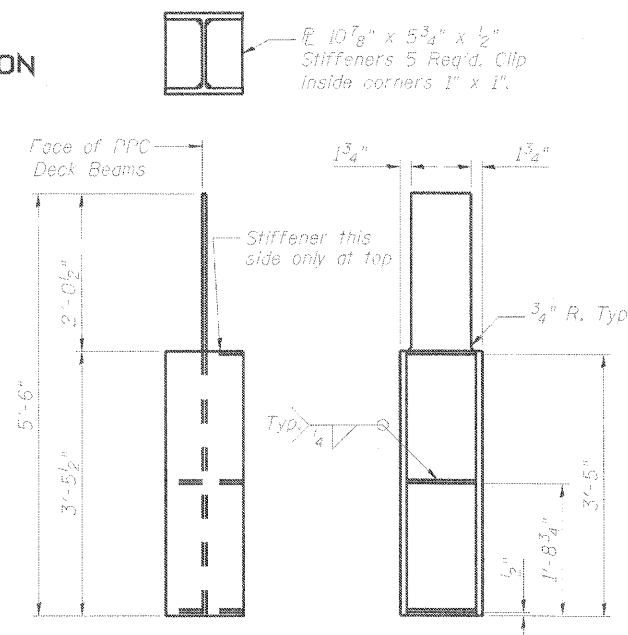
4 SHEETS

EXISTING SN. 053-0050 EMERGENCY
REPAIR PLANS - FOR INFORMATION ONLY -
STRUCTURE TO BE REMOVED

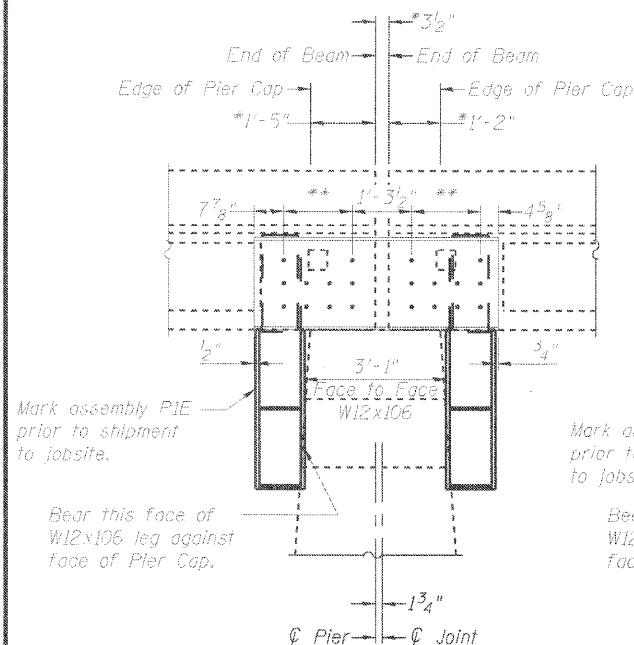
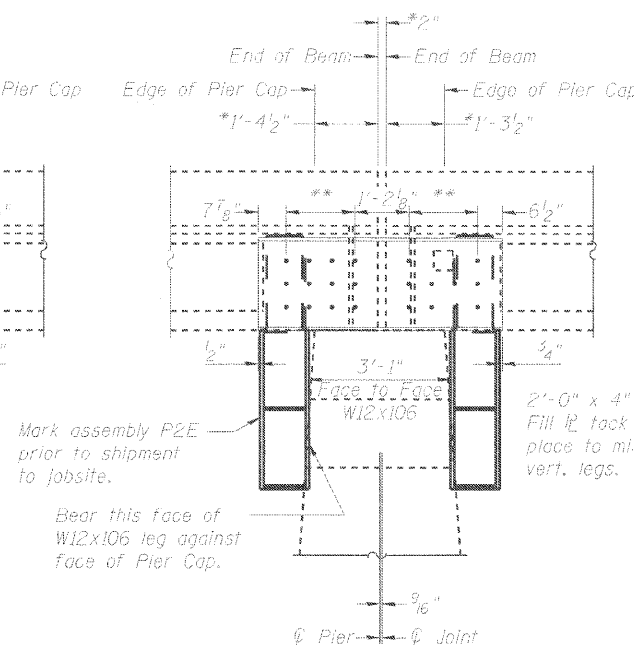
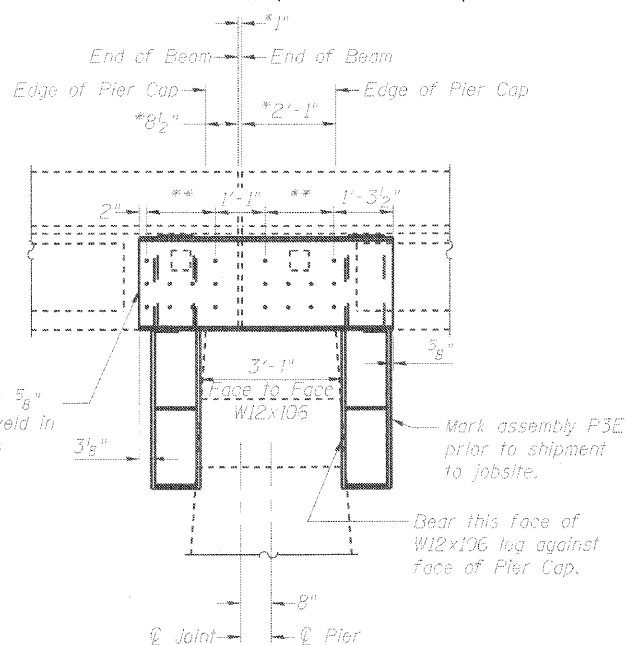
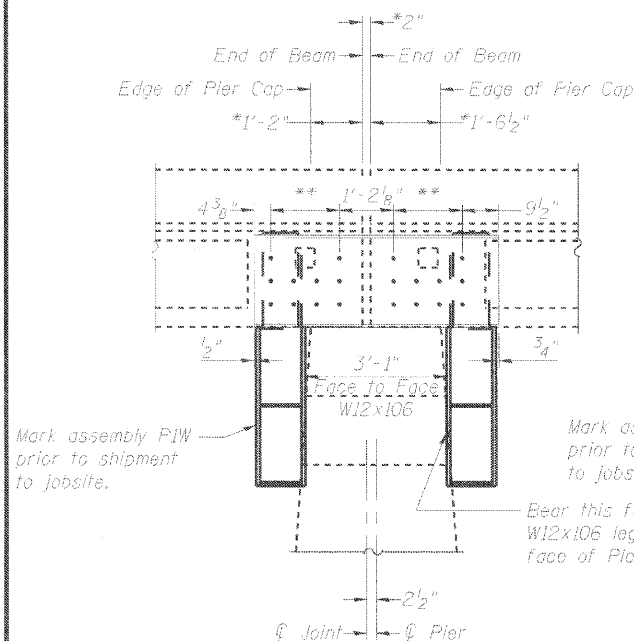
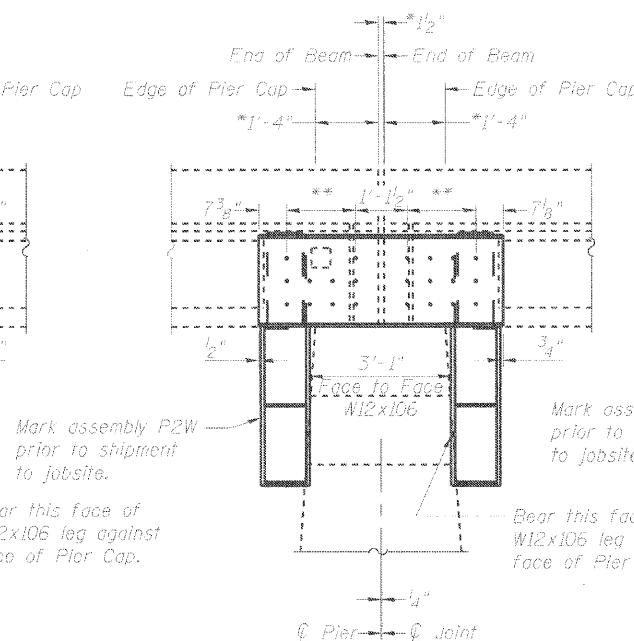
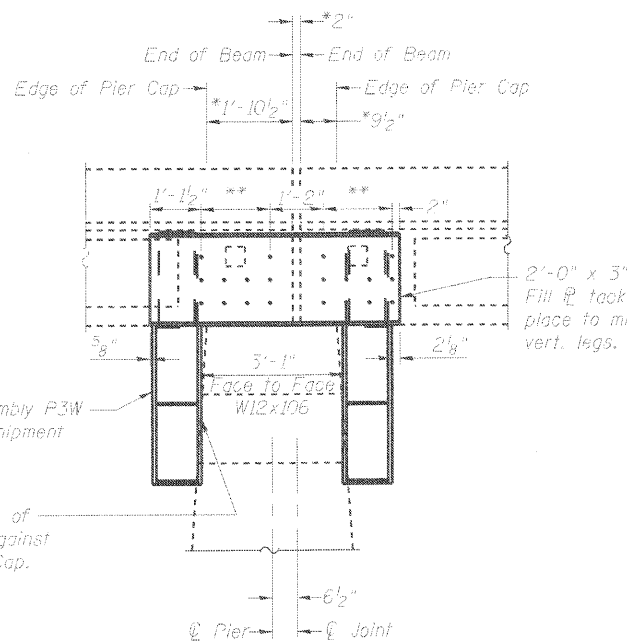
Existing PJS to be removed
full width of deck and void
filled with non-shrink grout.
Paid for as Grout Repair.



EXPANSION JOINT DETAIL

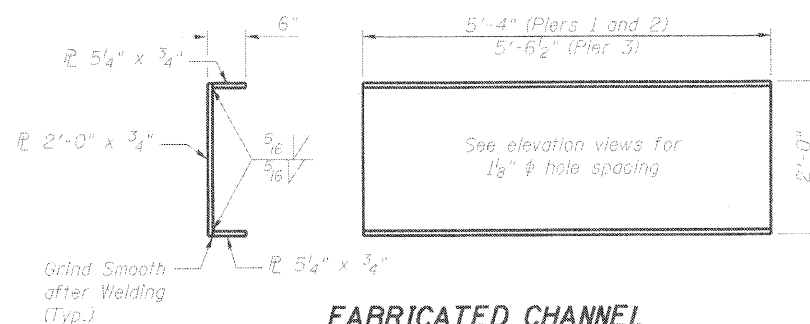


TYPICAL BRACKET LEG DETAIL

PIER 1 EAST SIDE
(Looking West)PIER 2 EAST SIDE
(Looking West)PIER 3 EAST SIDE
(Looking West)PIER 1 WEST SIDE
(Looking East)PIER 2 WEST SIDE
(Looking East)PIER 3 WEST SIDE
(Looking East)

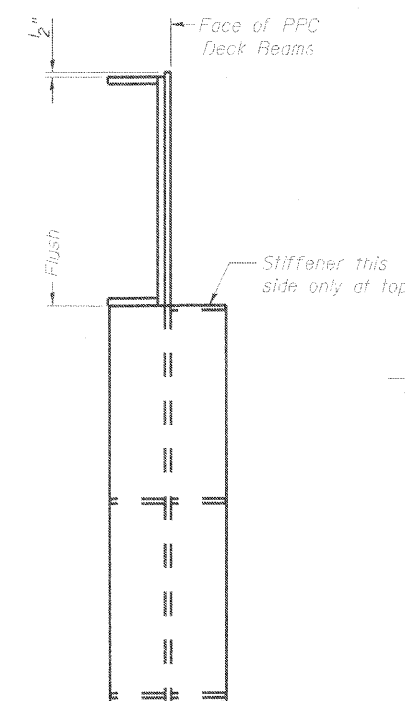
*Field measurements taken
September 27, 2004.

** 3 Spaces at 6" = 1'-6"



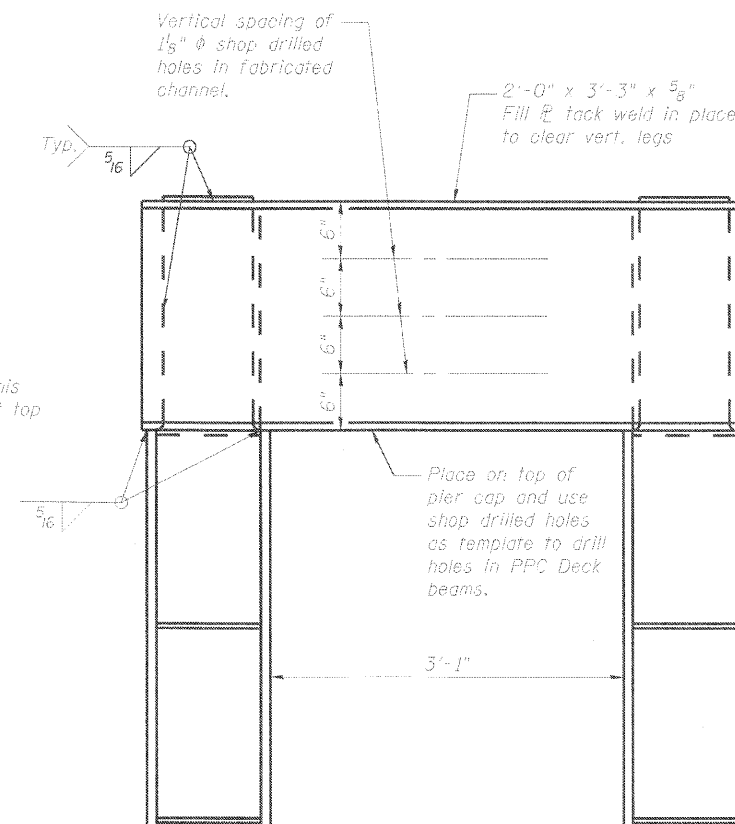
FABRICATED CHANNEL

TYPICAL BRACKET END VIEW



TYPICAL BRACKET ELEVATION

Weld bracket together, with all fill R's prior
to shop drilling 1/8" holes.

PIER CONTAINMENT BRACKET
INDIVIDUAL ELEVATION DETAIL

S.B.I. RT. 47
LIVINGSTON COUNTY
SN 053-0050

DESIGNED	J.S.B.
CHECKED	A.T.H.
DRAWN	Drew Christopher
CHECKED	J.S.B. A.T.H.

October 1, 2004
EXAMINED John A. Morris
ENGINEER OF STRUCTURAL SERVICES
PASSED Ralph E. Anderson
ENGINEER OF BRIDGES AND STRUCTURES

Note:
Drill and epoxy grout 1" threaded rods
a minimum of 2" into existing PPC Deck
Beams according to Article 584 of
the Standard Specifications using
the Containment Brackets as template

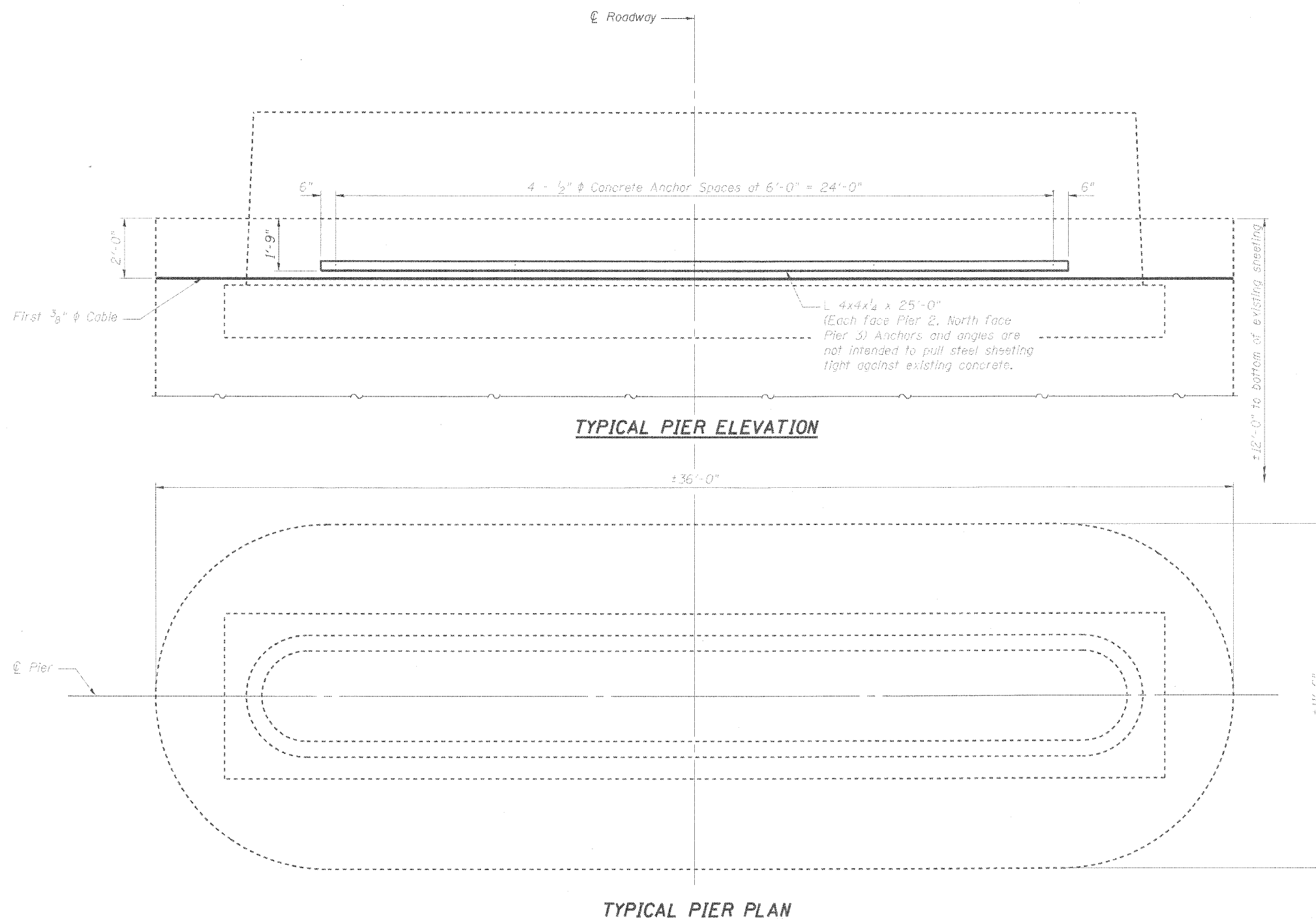
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING SN. 053-0050 EMERGENCY
REPAIR PLANS - FOR INFORMATION ONLY -
STRUCTURE TO BE REMOVED

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		Livingston	354	150
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT		

SHEET NO. 3

4 SHEETS



The Contractor shall provide galvanized, corrugated steel panels to cover the existing steel cofferdam. The entire exposed surface of the existing sheeting at Pier 2 from the top of the existing sheeting to streambed shall be covered. The exposed surface on the North, East and West faces at Pier 3 from the top of the existing sheeting to streambed shall be covered. The corrugated steel panels shall be 16 gage minimum. The panels shall have a minimum lap of either two corrugations or 6". The lap shall be in a manner that the stream flow does not go behind the lap. It shall be the Contractor's responsibility to prevent hydraulic blowout of the steel panels and existing cofferdam while placing grout slurry.

3/8" diameter steel cables shall be installed around the entire pier sheeting. Maximum spacing of the steel cables shall not exceed 4'-0". Estimated length of 3/8" diameter steel cables required = 430 feet. (3 cables for Pier 2, 2 cables for Pier 3)

This work will be paid for at the contract unit price per square foot for COFFERDAM REPAIR, which price shall include steel panels, cables, angles, anchors, equipment and labor to satisfactorily complete the work.

The grout mixture shall be 385kg/ cu m (6.50 hundredweight/ cu yd) of Portland cement plus fine aggregate and water. Fly ash may replace a maximum of 310kg/ cu m (5.25 hundredweight/ cu yd) of the Portland cement. The water/cement ratio shall not exceed 0.60. An air-entraining admixture shall be used to produce an air content of not less than 6.0 percent nor more than 9.0 percent of the volume of grout. The Contractor shall have the option to use a water-reducing or high range water-reducing admixture.

The Contractor shall provide access to properly install grout slurry in the voids below the existing pier footing and between existing steel sheeting and existing concrete to the top of existing sheeting.

This work will be paid for at the contract unit price per cubic yard for GROUT SLURRY, which price shall include grout, equipment and labor to satisfactorily complete the work.

DESIGNED	J.S.B.
CHECKED	A.T.H.
DRAWN	Drew Christopher
CHECKED	J.S.B. A.T.H.

October 1, 2004

EXAMINED	John A. Morris
PASSED	Ralph E. Anderson

ENGINEER OF BRIDGES AND STRUCTURES

PIER COFFERDAM REPAIR
S.B.I. RT. 47
LIVINGSTON COUNTY
SN 053-0050

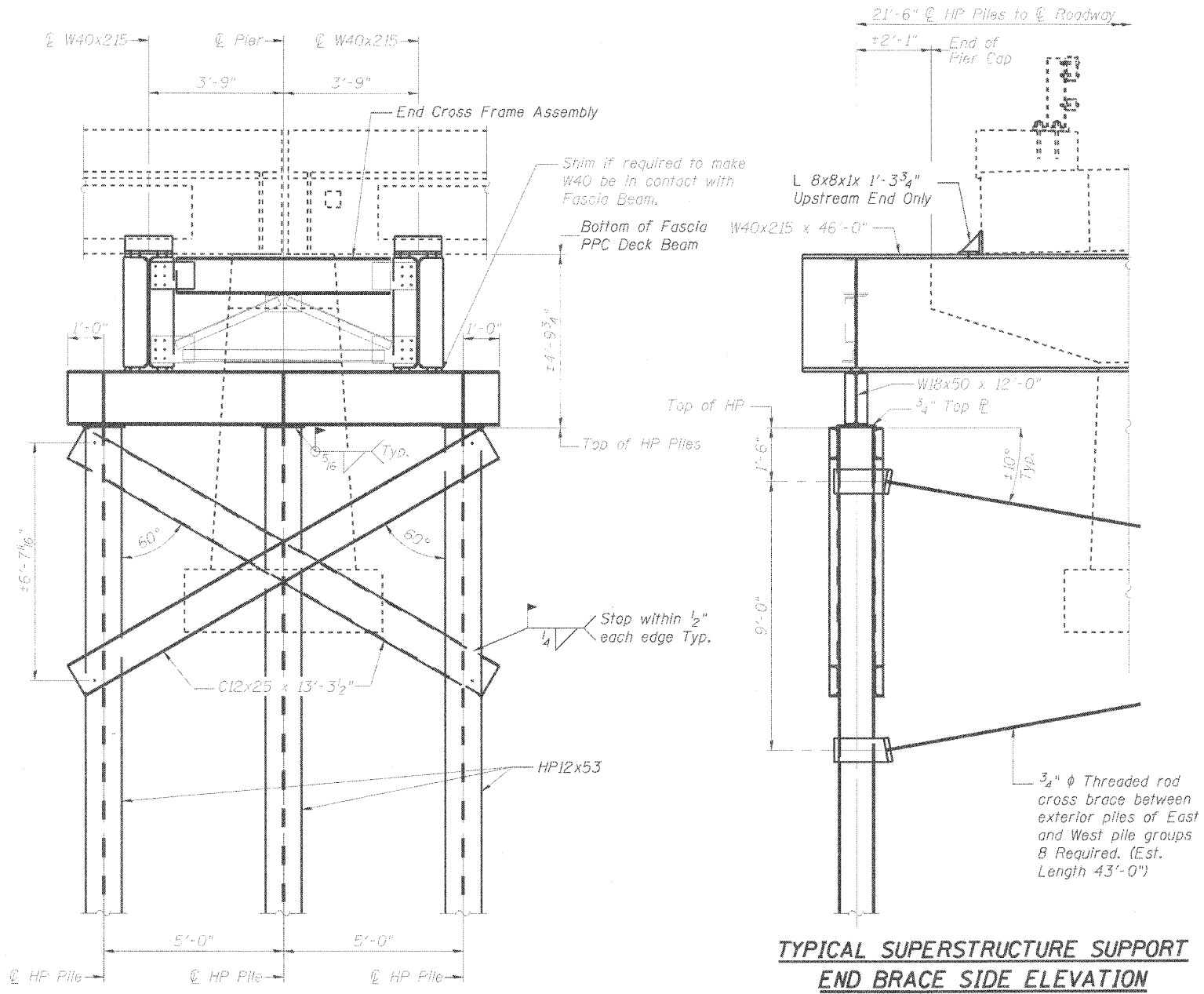
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING SN. 053-0050 EMERGENCY
REPAIR PLANS - FOR INFORMATION ONLY -
STRUCTURE TO BE REMOVED

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		Livingston	354	151
FED. ROAD DIST. NO. 7		ILLINOIS	FED. ROAD PROJECT	

SHEET NO. 4
4 SHEETS

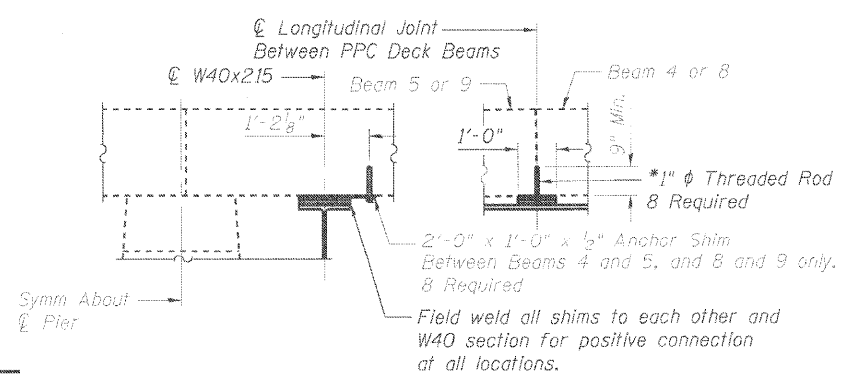
All holes shall be shop
drilled unless otherwise noted.



**TYPICAL SUPERSTRUCTURE SUPPORT
END BRACE END ELEVATION**

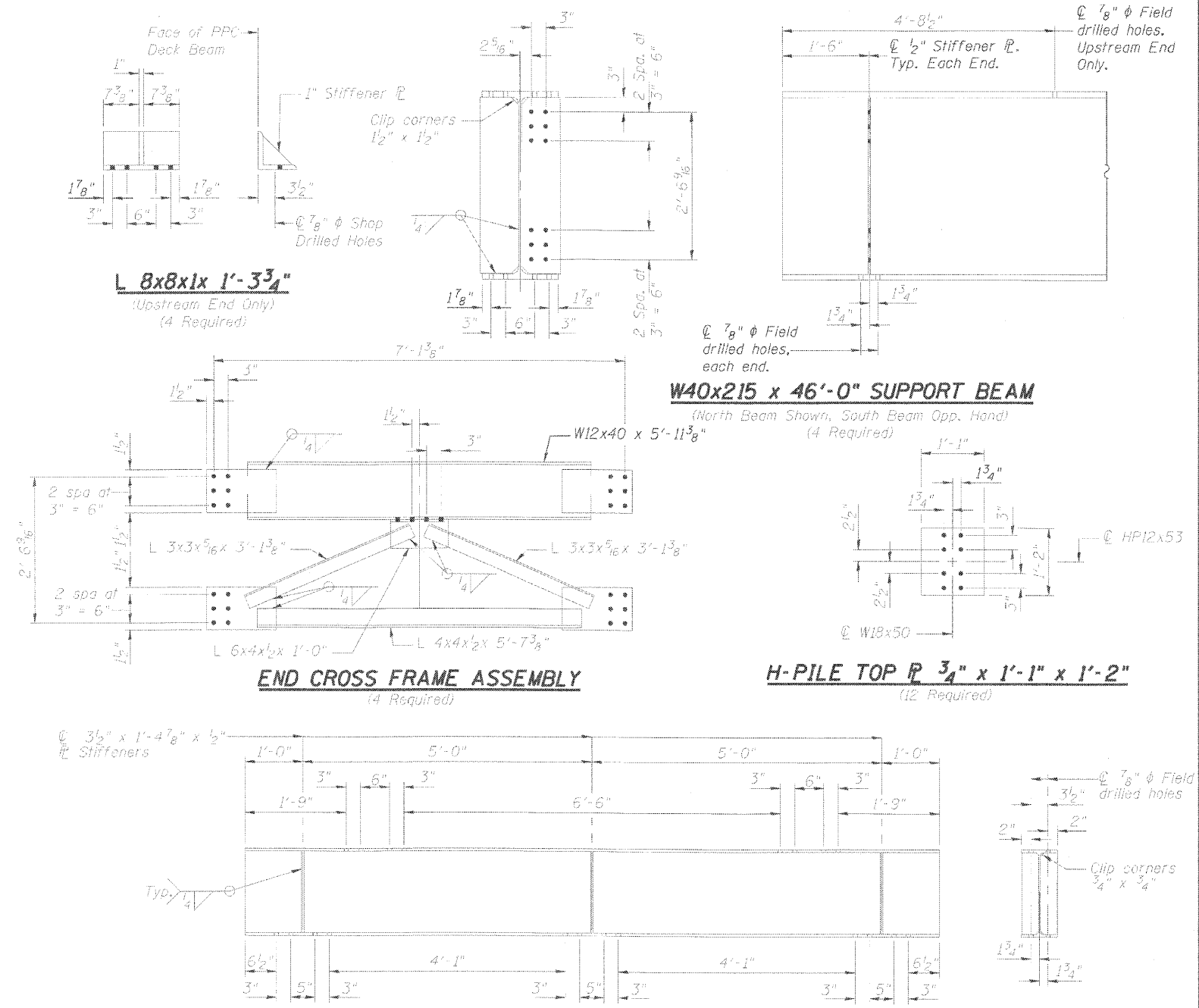
PILE DATA

Type: Steel H-Piles (HP12x53 min)
Design Capacity: 70T
Required Capacity: 150T
Est. Length: 100'-0"
No. Required: 12



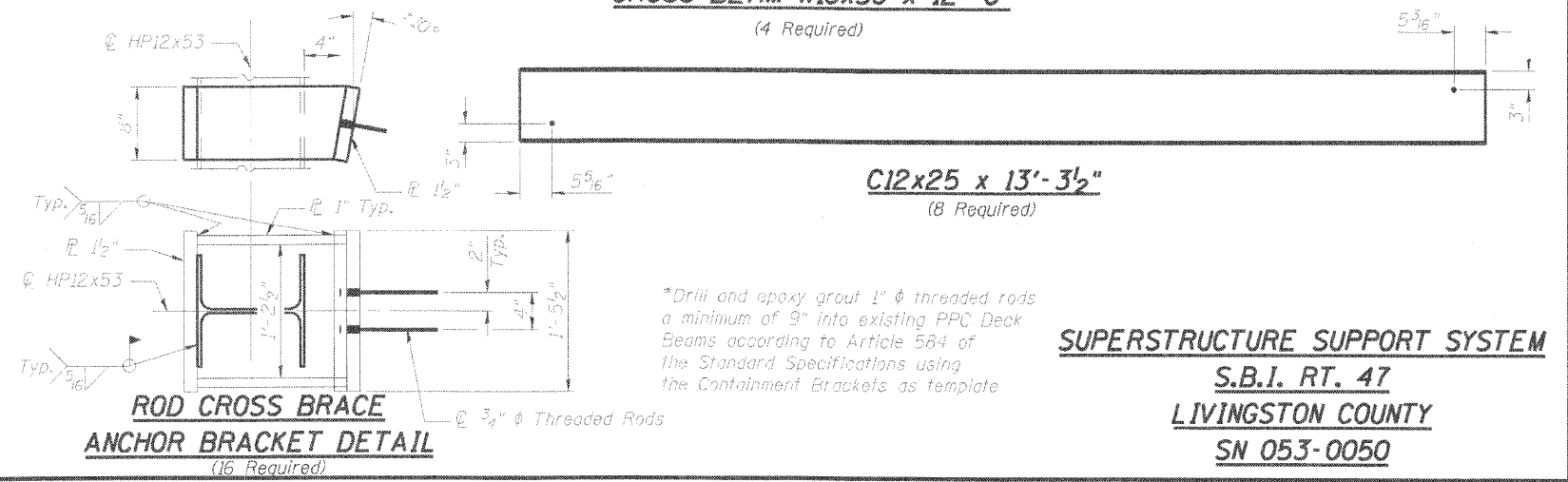
TYPICAL ANCHOR SHIM AND SHIM DETAIL

Contractor to provide shims, at all longitudinal beam joints, in the dimensions of 1'-4" x 1'-0", for the required thickness between the W40x215 and the bottom of the PPC Deck Beams. Shims to be centered on all longitudinal joints. Thickness varies from 0" at the fascia beam to +3/2" at the Roadway.



END CROSS FRAME ASSEMBLY
(4 Required)

CROSS BEAM W18x50 x 12'-0"
(4 Required)



ROD CROSS BRACE

ANCHOR BRACKET DETAIL
(16 Required)

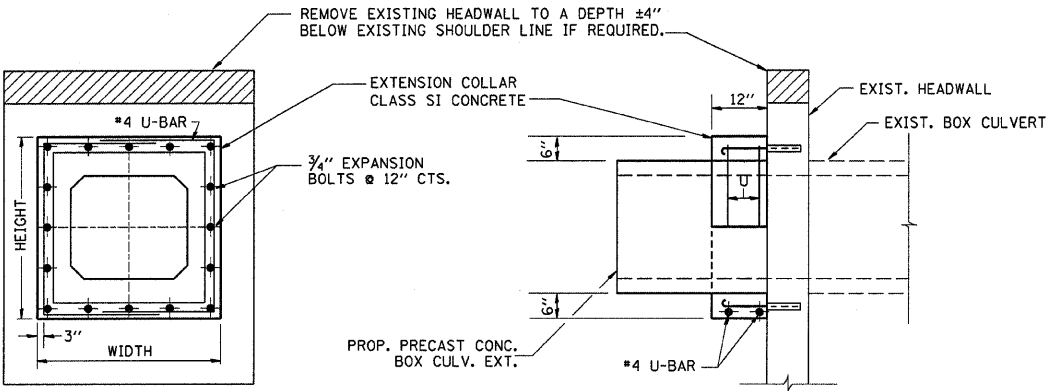
*Drill and epoxy grout 1" ϕ threaded rods a minimum of 9" into existing PPC Deck Beams according to Article 584 of the Standard Specifications using the Containment Brackets as template

SUPERSTRUCTURE SUPPORT SYSTEM

S.B.I. RT. 47
LIVINGSTON COUNTY
SN 053-0050

DESIGNED	J.S.B.
CHECKED	A.T.H.
DRAWN	Drew Christopher
CHECKED	J.S.B. A.T.H.

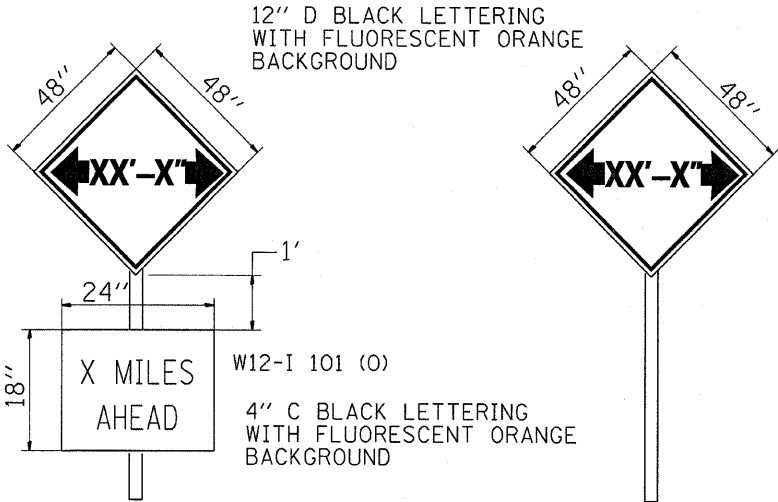
October 1, 2004	
EXAMINED	John A. Morris
	ENGINEER OF STRUCTURAL SERVICES
PASSED	Ralph E. Anderson
	ENGINEER OF BRIDGES AND STRUCTURES



EXPANSION BOLTS SHALL CONSIST OF SELF DRILLING EXPANSION SHIELDS AND 3/4" DIA. HOOKED BOLTS. HOOKED BOLTS SHALL EXTEND A MINIMUM OF 9" INTO NEW CONCRETE. BOLTS SHALL BE DRILLED IN THE CENTER OF THE EXISTING BOX CULVERT BARREL WALLS.
MINIMUM CERTIFIED PROOF LOAD = 4,080 LBS.

LOCATION		EXISTING CULVERT SIZE		PRECAST CULVERT EXTENSION		EXTENSION COLLAR		U-BAR #4		CONC. COLLAR		REINFORCEMENT BARS		3/4" DIA. EXPANSION BOLTS	
		FT. x FT.	FT. x FT.	FT. x FT.	FT. x FT.	IN.	IN.	IN.	IN.	CU. YD.	POUND	POUND	POUND	EACH	EACH
LT.	810+98.5	3 X 2	3 X 2	3 X 2	3 X 2	56	44	29	38	0.30	22	22	22	14	14
RT.	810+98.5	3 X 2	3 X 2	3 X 2	3 X 2	56	44	29	38	0.30	22	22	22	14	14
LT.	828+30	3 X 2	3 X 2	3 X 2	3 X 2	56	44	29	38	0.30	22	22	22	14	14
RT.	828+30	3 X 2	3 X 2	3 X 2	3 X 2	56	44	29	38	0.30	22	22	22	14	14

COLLAR DETAIL (PRECAST BOX CULVERT EXTENSION OF BOX CULVERT)



TO BE POST MOUNTED AS SHOWN ELSEWHERE IN THE PLANS.

THE ENGINEER SHALL NOTIFY DISTRICT 3 BUREAU OF OPERATIONS 14 CALENDAR DAYS PRIOR TO INSTALLING ANY TRAFFIC CONTROL DEVICES THAT WILL RESTRICT THE PAVEMENT WIDTH.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING WITH THE ENGINEER TO MEET THIS REQUIREMENT.

COST OF SUPPLYING, INSTALLING, MAINTAINING AND REMOVING WIDTH RESTRICTION SIGNS SHALL BE INCLUDED IN THE COST OF THE TRAFFIC CONTROL AND PROTECTION PAY ITEMS.

WIDTH RESTRICTION SIGNING DETAILS

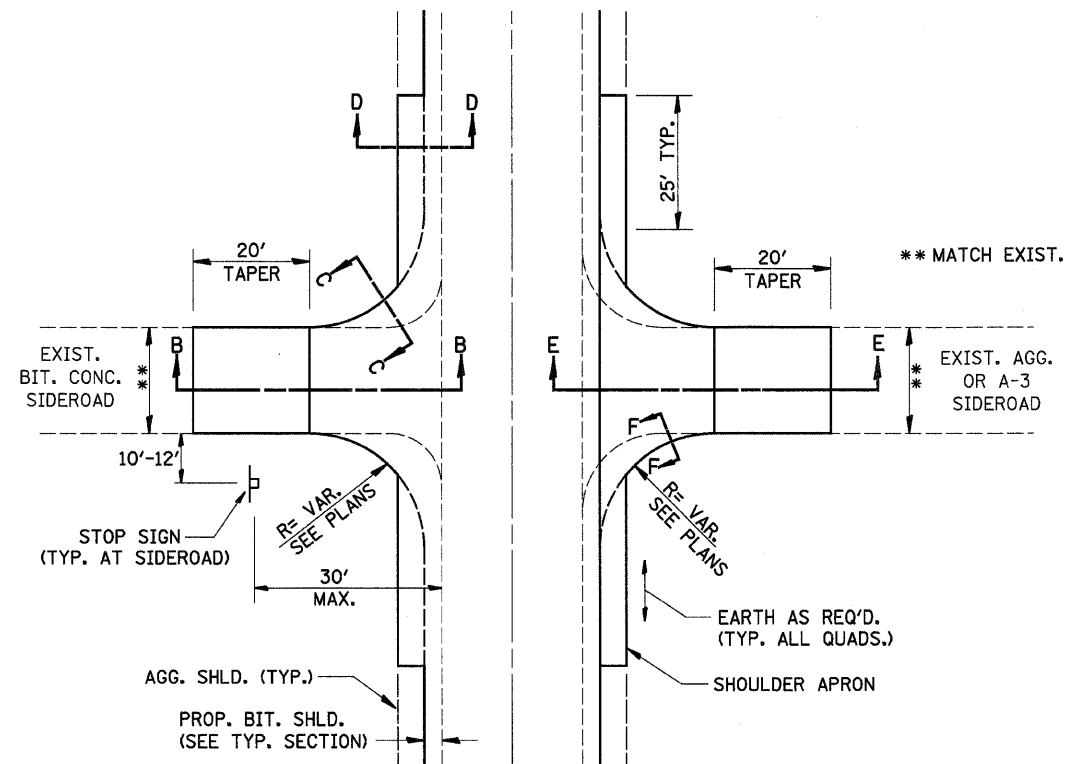
(SEE STAGING TYPICAL SECTION SHEET FOR LOCATIONS)

* UPON COMPLETION OF STAGE I
REMOVE OR COVER SIGNS

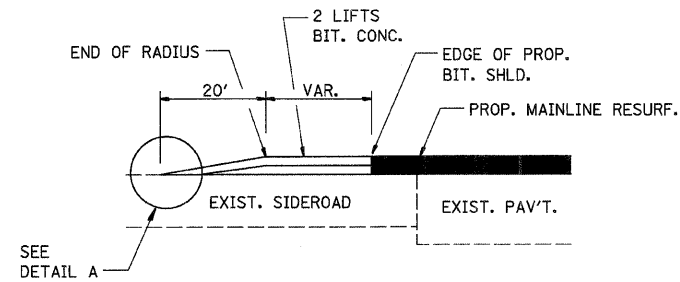
XX'-X" = 10'-8" (VERMILION RIVER STRUCTURE) STA. 949 + 25
9'-6" (6'X2' RCBC) STA. 1245 + 85

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

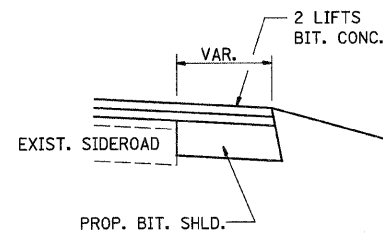
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
326	*	LIVINGSTON	354	153
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		
*(123,123X)RS-3, (124)RS-5, (123)BR-3				



SIDEROAD DETAIL

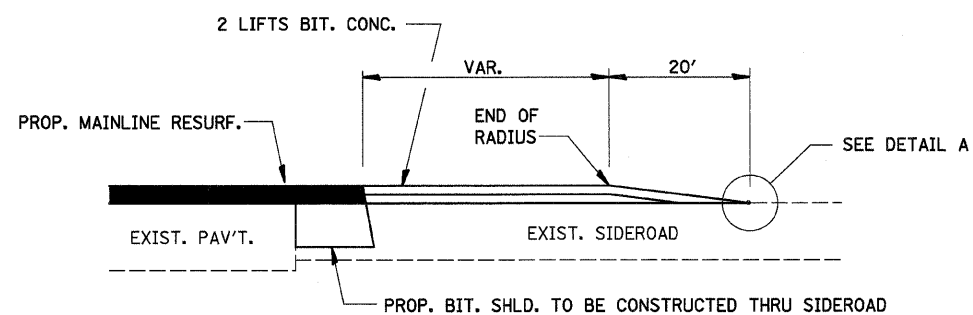
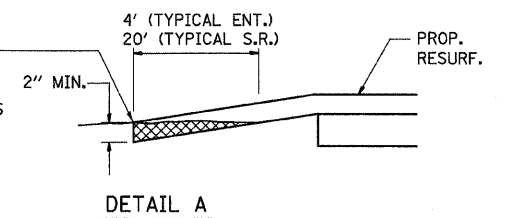


SECTION B-B

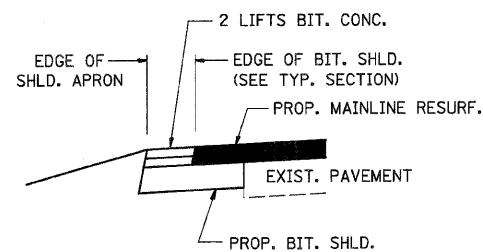


SECTION C-C

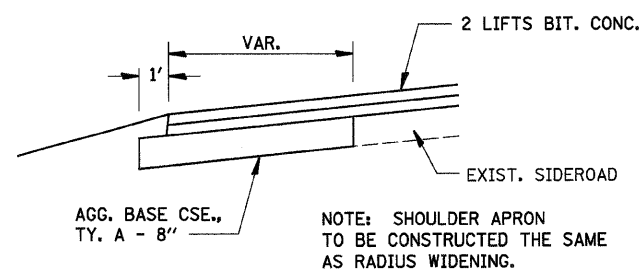
THE COST OF REMOVAL AT EXISTING _____
BIT. OR P.C.C. LOCATIONS SHALL BE PAID
FOR PER SQ. YD. BY THE APPROPRIATE PAY
ITEM. REMOVAL AT EXISTING AGG. LOCATIONS
SHALL BE INCIDENTAL TO THE BITUMINOUS.
A-3 LOCATIONS SHALL BE FEATHER TAPERED.



SECTION E-E

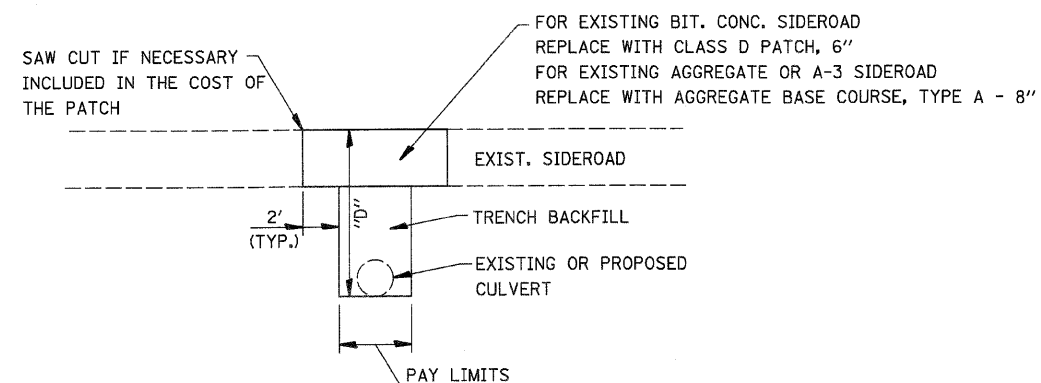


SECTION D-D



SECTION F-F

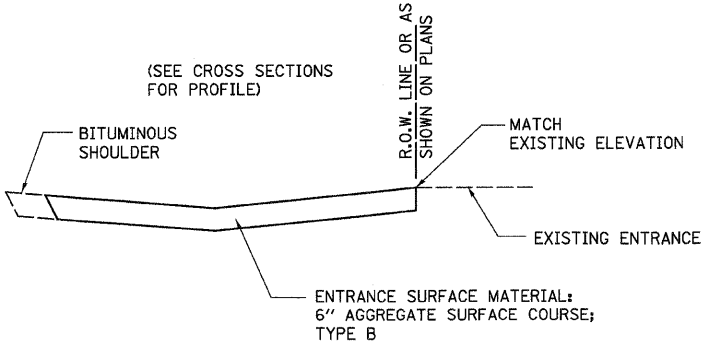
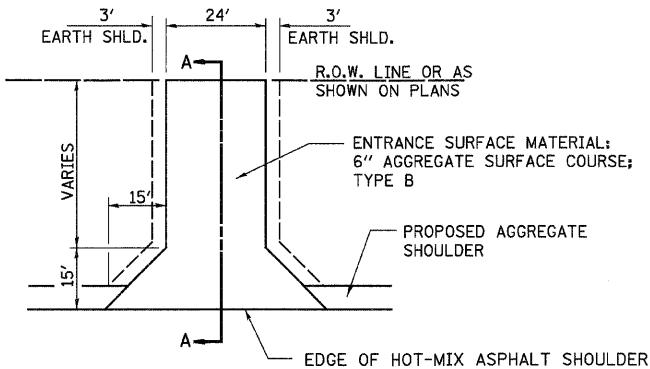
NOTE: SHOULDER APRON
TO BE CONSTRUCTED THE SAME
AS RADIUS WIDENING.



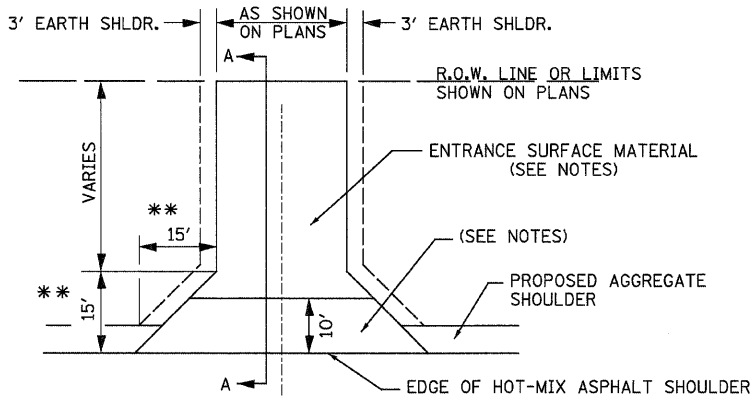
**REMOVE EXISTING PIPE CULVERT OR
CONSTRUCT NEW PIPE CULVERT DETAIL
SECTION B-B OR E-E**

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

CONTRACT NO. 66601				
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
326	•	LIVINGSTON	354	154
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		
•(123,123)RS-3, (124)RS-5, (123)BR-3				



FIELD ENTRANCE DETAIL



** 15' (MIN.) OR AS NEEDED TO MATCH EXISTING CONDITIONS.

HOT-MIX ASPHALT SHOULDER, 5 3/4" PLUS 2 1/4" HOT-MIX ASPHALT BINDER AND SURFACE CSE.

HOT-MIX ASPHALT BASE COURSE, 6" PLUS INCIDENTAL HOT-MIX ASPHALT SURFACING, 2"

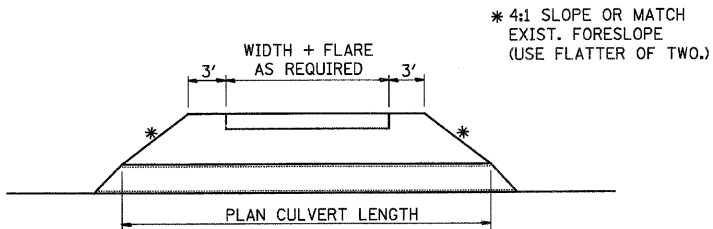
SECTION A-A
(SEE CROSS SECTIONS FOR PROFILE)

NOTES:

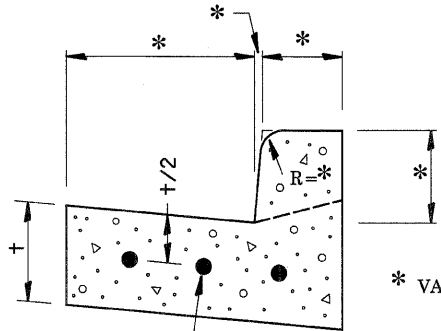
1. EXISTING AGGREGATE ENTRANCES SHALL BE REPLACED WITH A HOT-MIX ASPHALT BASE COURSE, 6" AND INCIDENTAL HOT-MIX ASPHALT SURFACING, 2" FOR 10 FEET BEYOND THE EDGE OF THE HOT-MIX ASPHALT SHOULDER AND THEN AGGREGATE SURFACE COURSE, TYPE B (6" FOR P.E. OR 8" FOR C.E.) TO LIMITS SHOWN.

2. EXISTING BITUMINOUS ENTRANCES SHALL BE REPLACED, BEYOND THE EDGE OF THE HOT-MIX ASPHALT SHOULDER, WITH HOT-MIX ASPHALT BASE COURSE, 6" AND INCIDENTAL HOT-MIX ASPHALT SURFACING, 2" FOR THE ENTIRE ENTRANCE AS SHOWN.

3. EXISTING PCC ENTRANCES SHALL BE REPLACED, BEYOND THE EDGE OF THE HOT-MIX ASPHALT SHOULDER, WITH PCC DRIVEWAY PAVEMENT 8" TO THE LIMITS SHOWN.

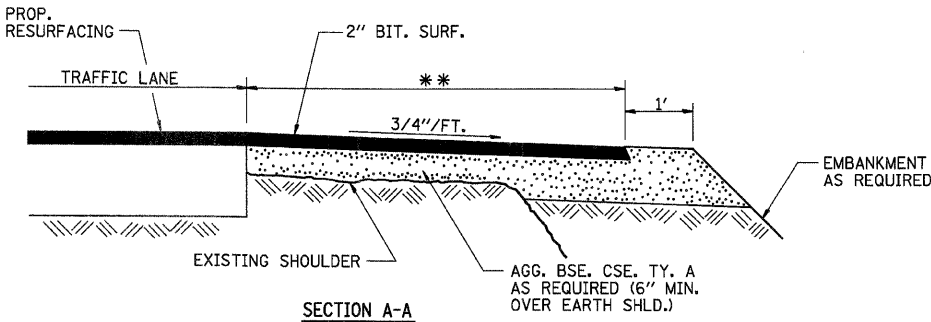
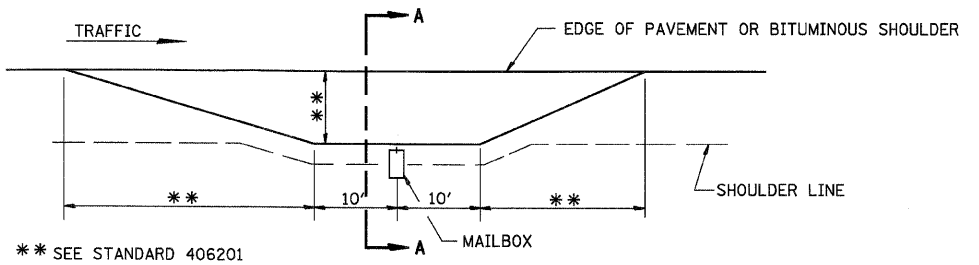


PRIVATE AND COMMERCIAL ENTRANCE DETAIL



REINFORCEMENT DETAIL FOR COMBINATION CONCRETE CURB AND GUTTER

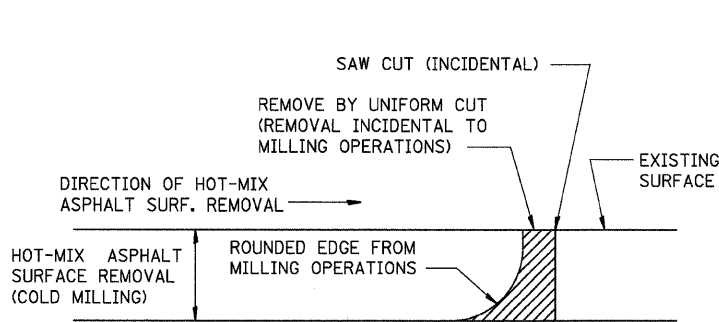
REINFORCEMENT SHALL NOT BE PAID FOR SEPARATELY BUT WILL BE INCLUDED IN THE CONTRACT UNIT PRICE FOR CC&G.



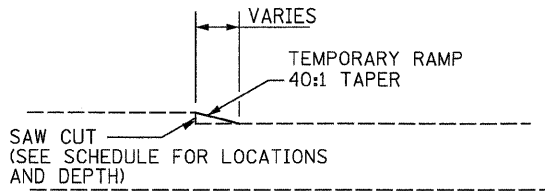
MAILBOX TURNOUT DETAILS

REVISIONS		ILLINOIS DEPARTMENT OF TRANSPORTATION	
NAME	DATE		
		ENTRANCE DETAILS, MAILBOX TURNOUT DETAIL & REINFORCEMENT DETAIL FOR COMB. CONCRETE CURB AND GUTTER	
		SCALE: VERT.	DRAWN BY
		HORIZ.	CHECKED BY
		DATE	

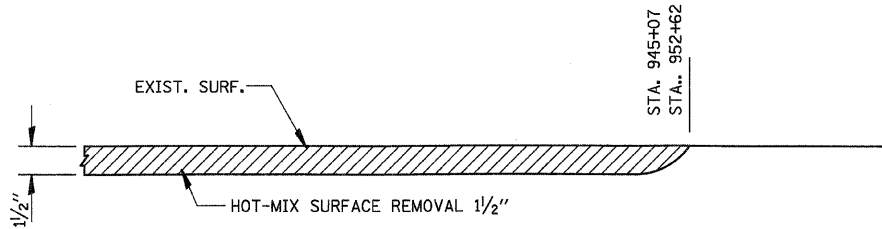
CONTRACT NO. 66601				
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
326	•	LIVINGSTON	354	155
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	
•(123,123X)RS-3, (124)RS-5, (123)BR-3				



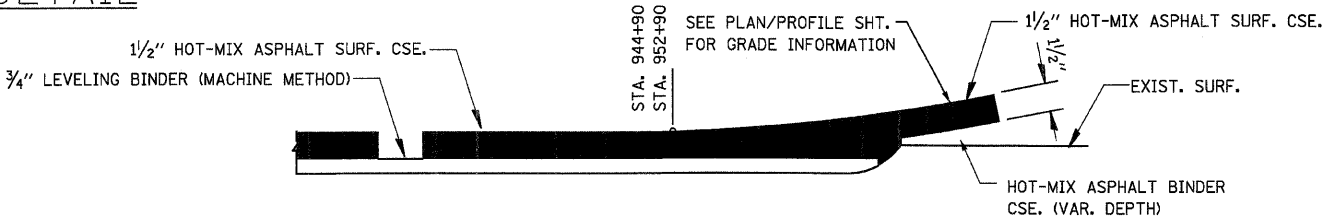
NOTE: WHEN MILLING OPERATIONS PRODUCE A ROUNDED EDGE, THEN A SAW CUT SHALL BE USED TO MANUFACTURE A PERPENDICULAR EDGE AS SHOWN IN THE DETAIL. THE ENGINEER SHALL BE THE SOLE JUDGE CONCERNING THE USE OF THIS DETAIL.



TEMPORARY RAMP DETAIL

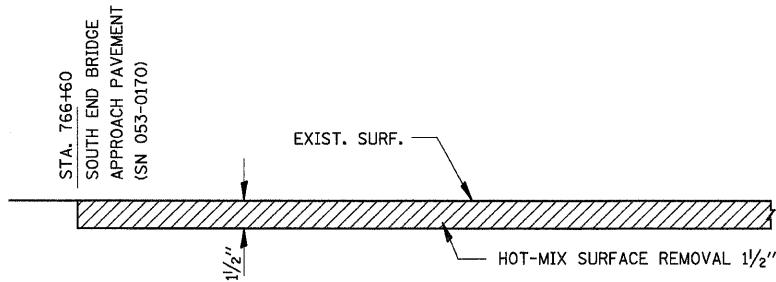


STEP 1

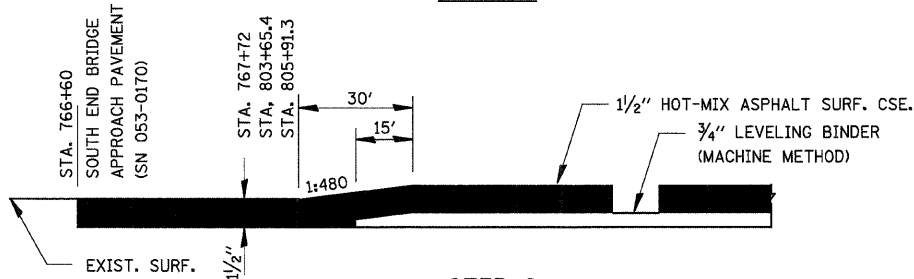


STEP 2

PAVEMENT TRANSITION DETAIL AT THE VERMILION RIVER STRUCTURE



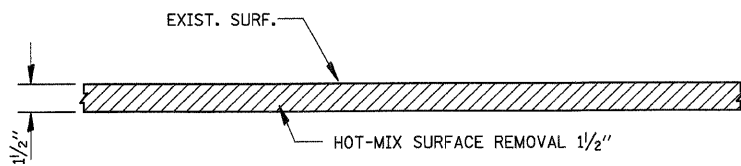
STEP 1



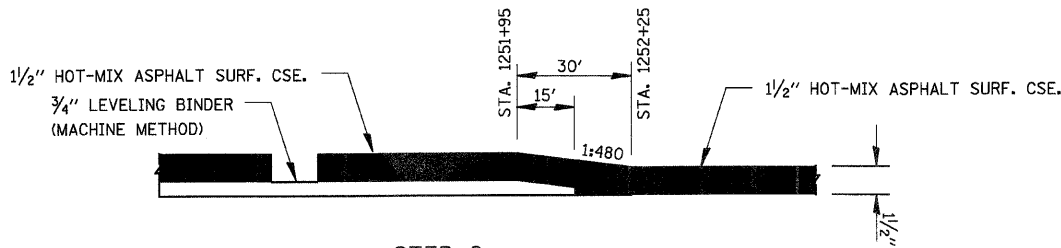
STEP 2

RURAL BUTT JOINT DETAIL

STA. 767+72 BEGINNING OF PROJECT
STA. 803+65.4 BRIDGE OMISSION
STA. 805+91.3 BRIDGE OMISSION



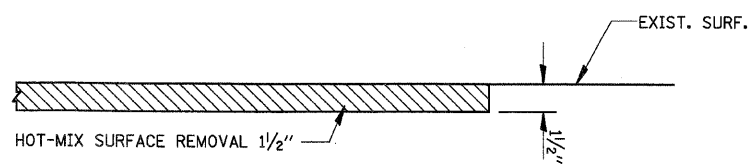
STEP 1



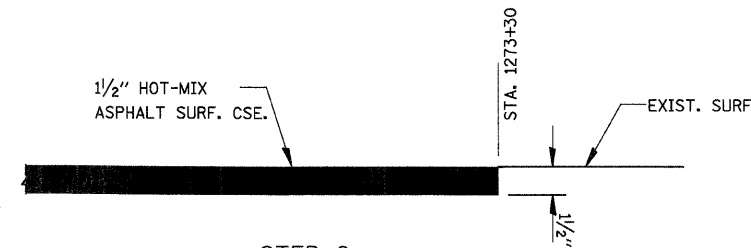
STEP 2

PAVEMENT TRANSITION DETAIL RURAL TO URBAN

STA. 1251+95 TO STA. 1252+25



STEP 1



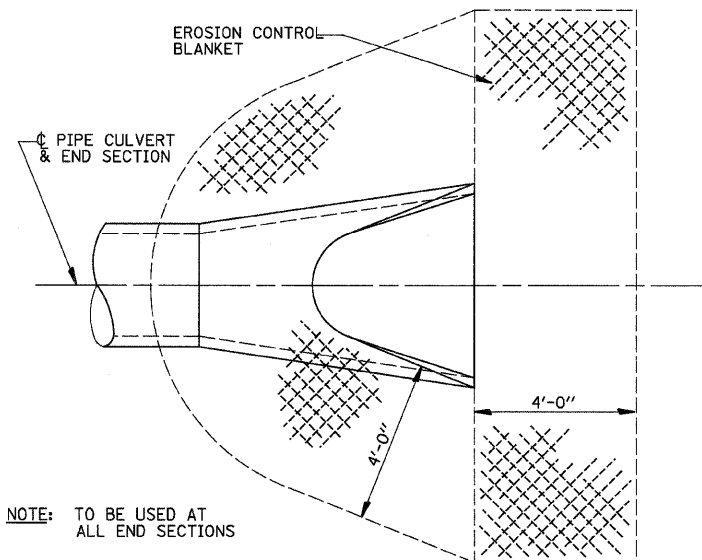
STEP 2

URBAN BUTT JOINT DETAIL

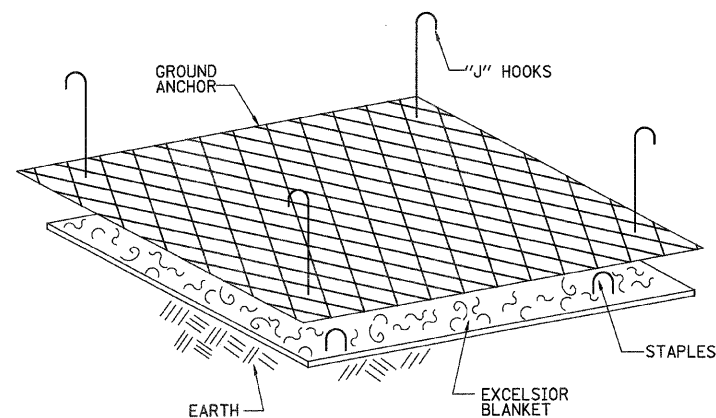
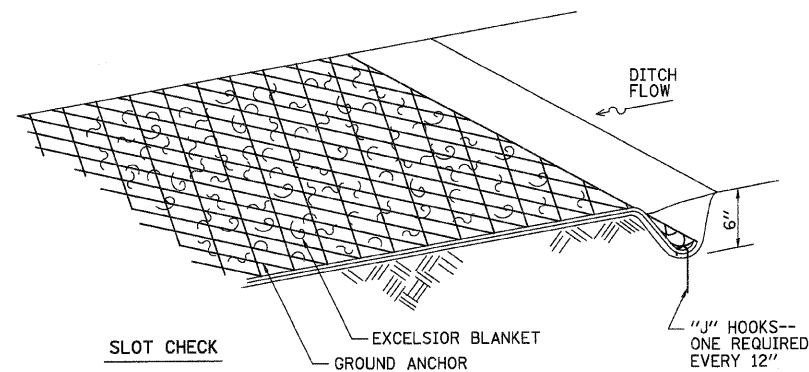
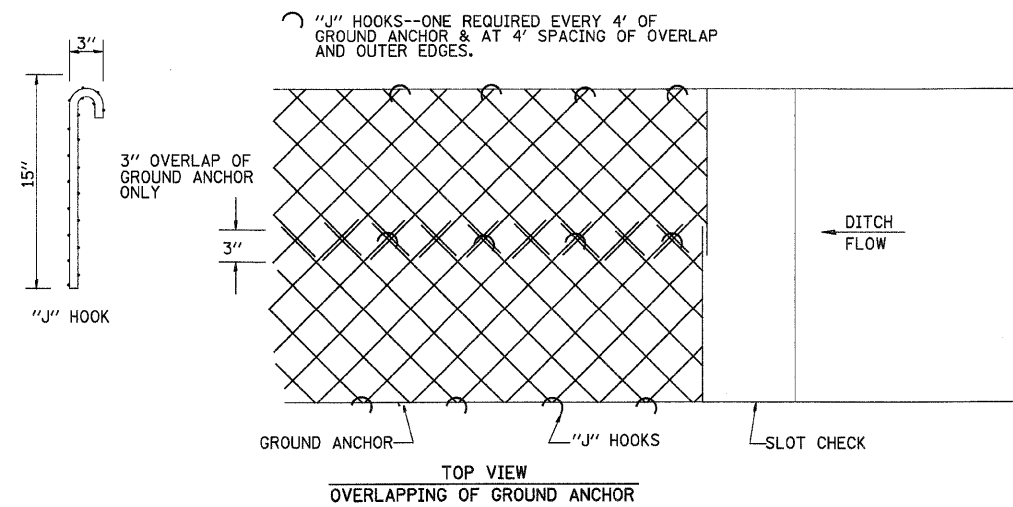
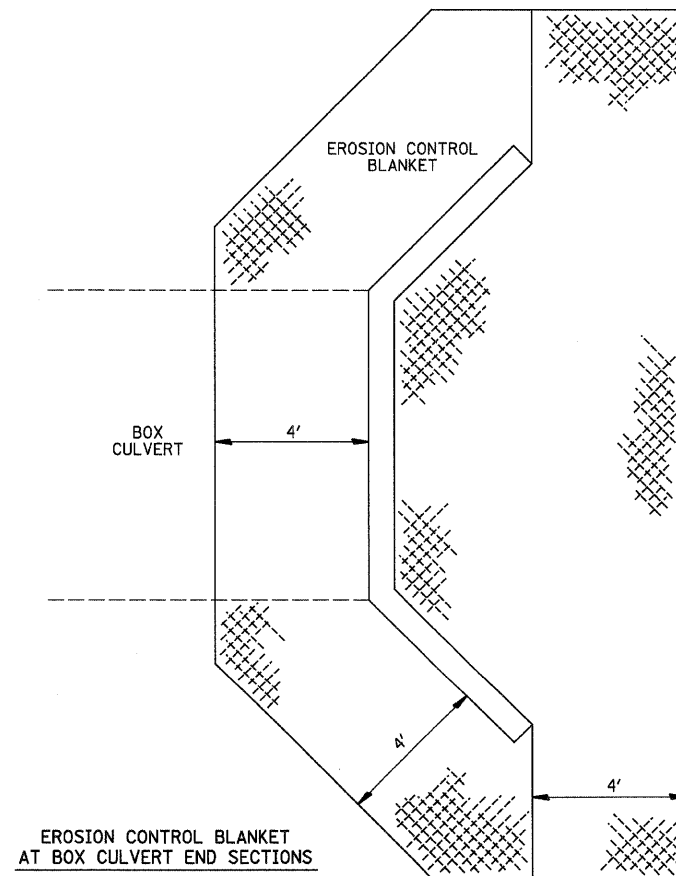
STA. 1273+30 END OF PROJECT

REVISIONS		ILLINOIS DEPARTMENT OF TRANSPORTATION
NAME	DATE	
		BUTT JOINT AND PAVEMENT TRANSITION DETAILS
SCALE: VERT.		DRAWN BY
HORIZ.		
DATE		CHECKED BY

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
326	•	LIVINGSTON	354	156
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		
•(123,123X)RS-3, (124)RS-5, (123)BR-3				

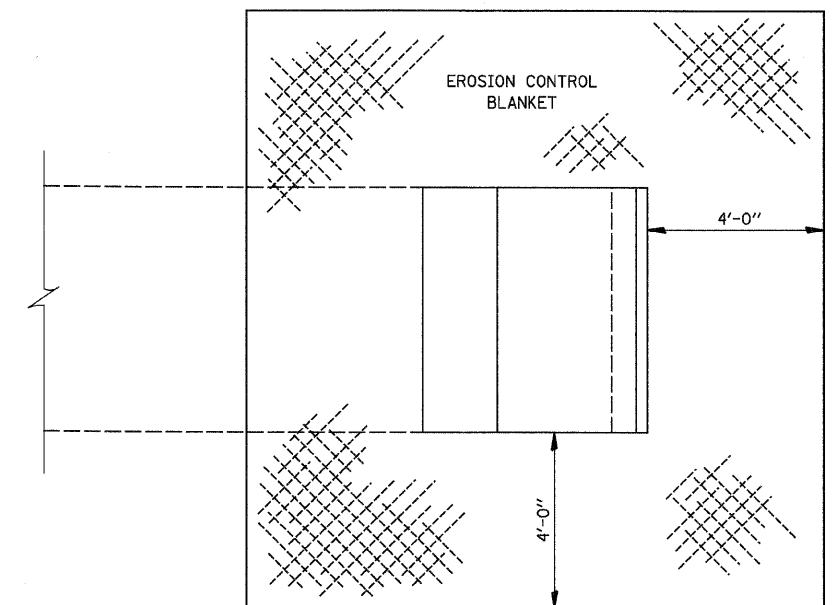


DETAIL OF EROSION CONTROL BLANKET
LINING AROUND END SECTION



- NOTES:
1. EXCELSIOR BLANKET IS STAPLED INTO GROUND.
 2. GROUND ANCHOR GOES OVER EXCELSIOR BLANKET AND IS FASTENED WITH "J" HOOKS EVERY 4 FEET.
 3. PAY WIDTH WILL BE MEASURED TO OUT-TO-OUT OF GROUND ANCHOR WITH NO CONSIDERATION FOR OVERLAPS.

EXCELSIOR BLANKET (SPECIAL)
DETAILS

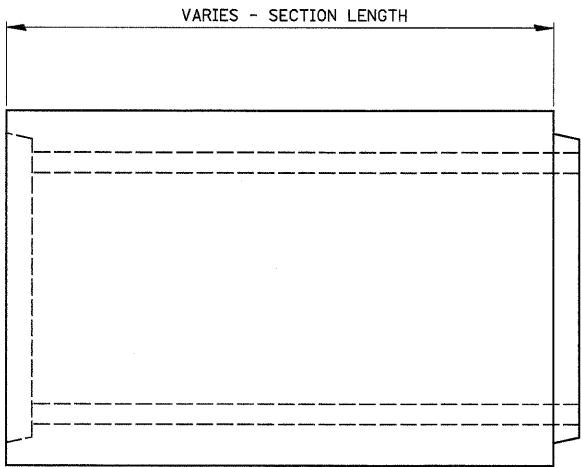


EROSION CONTROL BLANKET AT PRECAST BOX CULVERT END SECTIONS

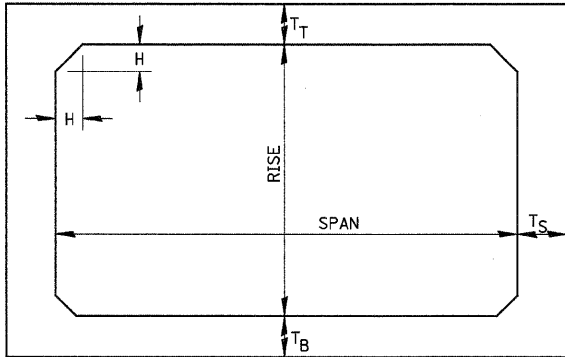
REVISIONS		ILLINOIS DEPARTMENT OF TRANSPORTATION
NAME	DATE	
		EXCELSIOR BLANKET DETAILS

SCALE: VERT.
HORIZ.
DATE

DRAWN BY
CHECKED BY



ELEVATION



NOTE: THE HAUNCH DIMENSION H, IS EQUAL TO THE WALL THICKNESS T_S.

GENERAL NOTES:

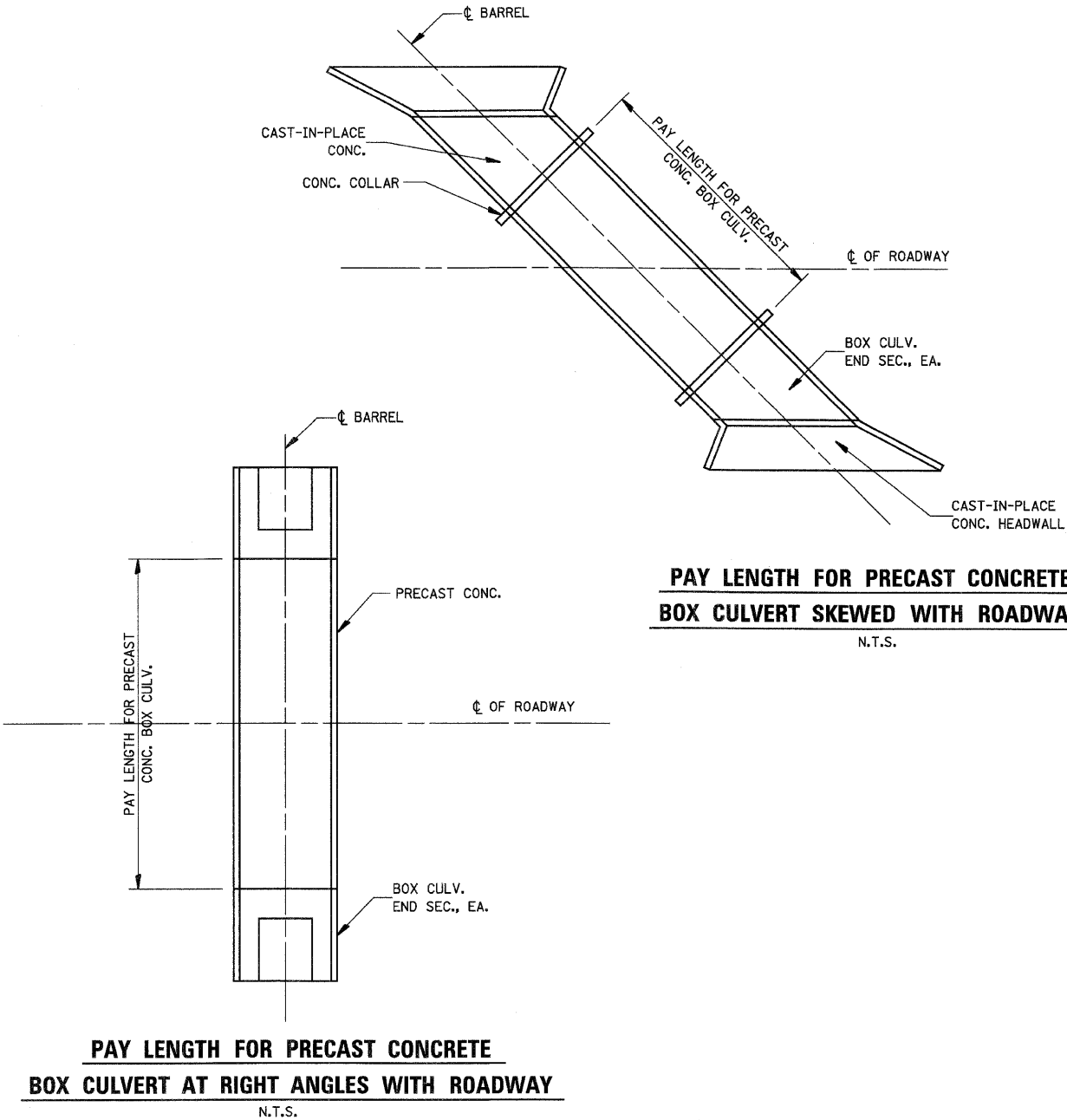
TYPICAL BOX SECTION

MINIMUM COVER FOR BOX
CULVERTS SHALL BE 6".

SPAN, FEET	T _T , INCHES		T _B , INCHES		T _S , INCHES	
	M 259	M 273	M 259	M 273	M 259	M 273
3	4	7	4	6	4	4
4	5	7½	5	6	5	5
5	6	8	6	7	6	6
6	7	8	7	7	7	7
7	8	8	8	8	8	8
8	8	8	8	8	8	8
9	9	9	9	9	9	9
10	10	10	10	10	10	10
11	11	11	11	11	11	11
12	12	12	12	12	12	12

TYPICAL THICKNESSES

PRECAST CONCRETE BOX SECTION



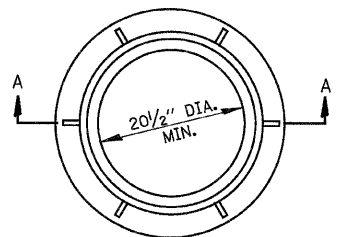
REVISIONS		ILLINOIS DEPARTMENT OF TRANSPORTATION
NAME	DATE	
		PRECAST CONCRETE BOX CULVERT DETAILS
SCALE: VERT.		DRAWN BY
DATE HORIZ.		
		CHECKED BY

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
326	*	LIVINGSTON	354	159
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		
•(123,123X)RS-3, (124)RS-5, (123)BR-3				

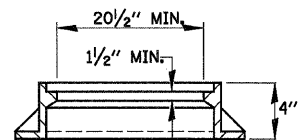
ALTERNATE MATERIALS FOR WALLS	T
PRECAST REINFORCED CONCRETE RISERS	4"
CONCRETE MASONRY UNIT	5"
MONOLITHIC CONCRETE	6"
BUILDING BRICK, GRADE SW FROM CLAY OR SHALE	8"
CONCRETE BUILDING BRICK, GRADE A	8"

NOTES

1. THE CONTRACT UNIT PRICE FOR FIELD TILE JUNCTION VAULT SHALL INCLUDE THE COST OF FURNISHING AND PLACING THE FRAME AND GRATE OR PRECAST CONCRETE LID AND WHEN REQUIRED, THE SAND CUSHION.
2. ALL FIELD TILE JUNCTION VAULTS SHALL BE 2'-0" IN DIAMETER UNLESS OTHERWISE NOTED ON THE PLANS.

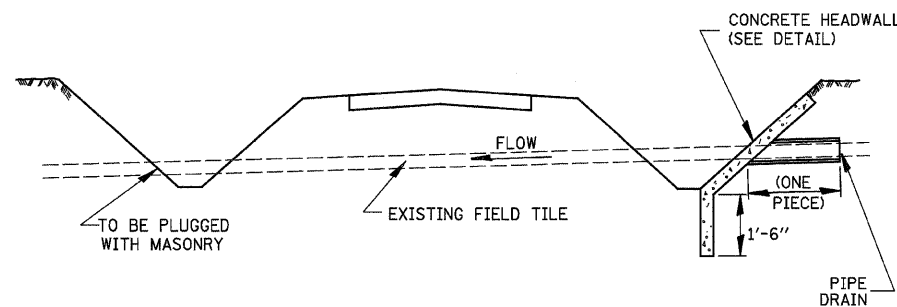
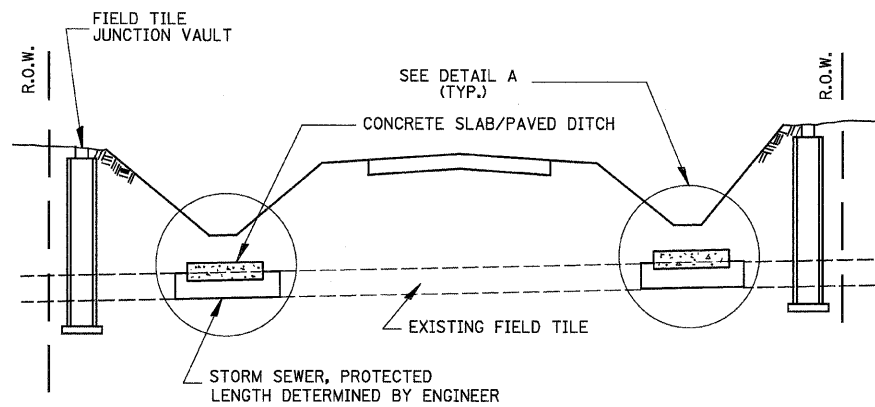


± 145#

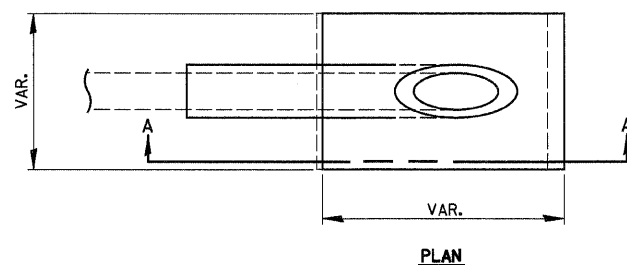


SECTION A-A

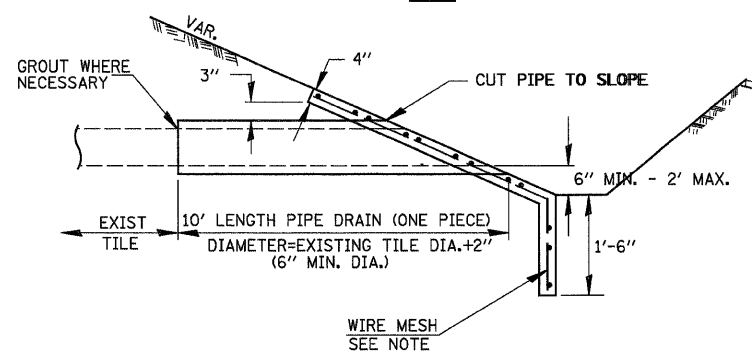
REVISIONS		ILLINOIS DEPARTMENT OF TRANSPORTATION <
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FIELD TILE REPLACEMENT

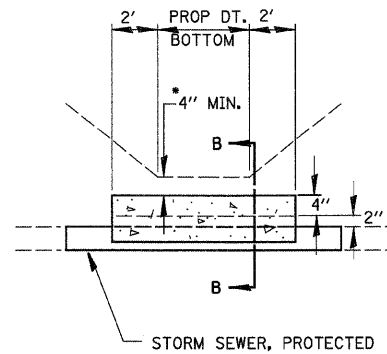


PLAN



SECTION A-A

CLASS SI CONCRETE HEADWALLS



DETAIL A

NO SCALE

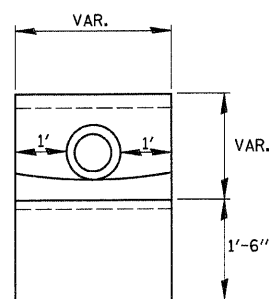
*IF A 4" COVER CAN NOT BE PROVIDED A PAVED DITCH SHALL BE CONSTRUCTED AS SHOWN IN DETAIL C.

NOTES

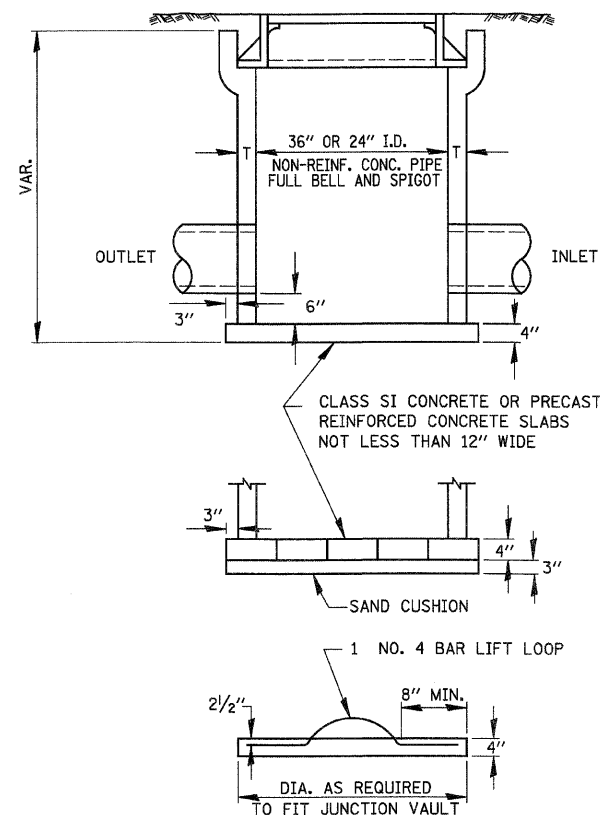
1. WIDTH OF CONCRETE SLAB SHALL BE THE SAME AS THE TRENCH WIDTH IN ACCORDANCE WITH SECTION 550 OF THE STD. SPECIFICATIONS, OR 3' MIN.
2. CONCRETE FOR SLAB, HEADWALL AND PAVED DITCH SHALL BE PAID FOR AT THE CONTRACT UNIT PRICE PER CUBIC YARD FOR MISCELLANEOUS CONCRETE."
3. COST OF FURNISHING AND INSTALLING WIRE MESH SHALL BE INCLUDED IN THE CONTRACT UNIT PRICE PER CUBIC YARD FOR MISCELLANEOUS CONCRETE. WIRE MESH TO WEIGH NOT LESS THAN 58# PER 100 SQ. FT.

NOTES

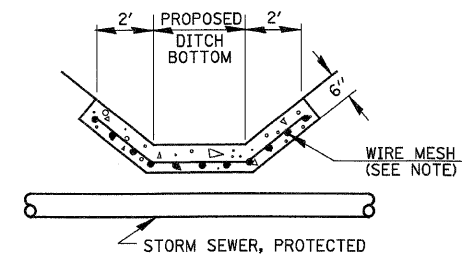
1. ANY STORM SEWER OR FIELD TILE OUTLET INTO A DITCH SHALL HAVE A HEADWALL BUILT IN ACCORDANCE WITH THIS DETAIL.
2. COST OF FURNISHING AND INSTALLING WIRE MESH SHALL BE INCLUDED IN THE CONTRACT UNIT PRICE PER CUBIC YARD FOR MISCELLANEOUS CONCRETE. WIRE MESH TO WEIGH NOT LESS THAN 58# PER 100 SQ. FT.



END VIEW

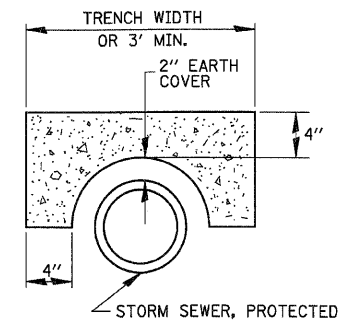


FIELD TILE JUNCTION VAULT

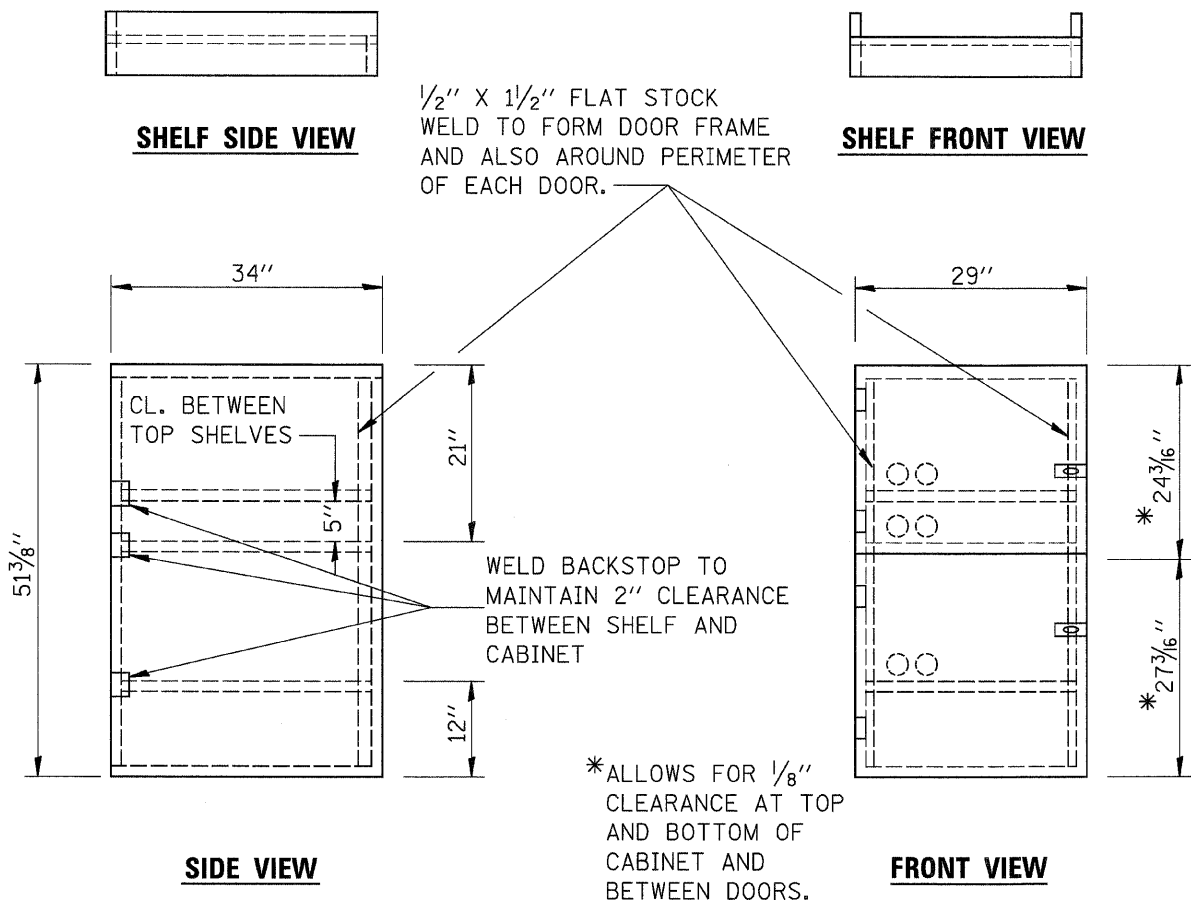


DETAIL C

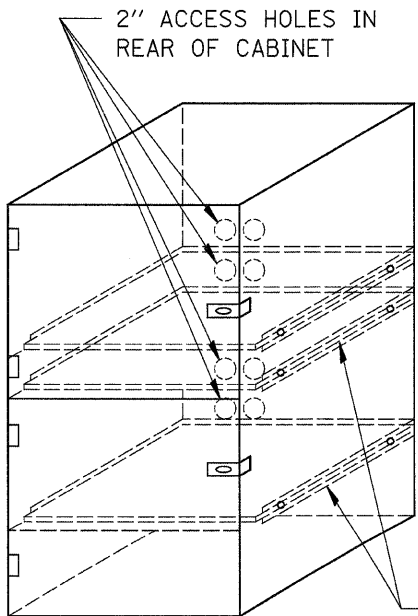
NO SCALE



SECTION B-B

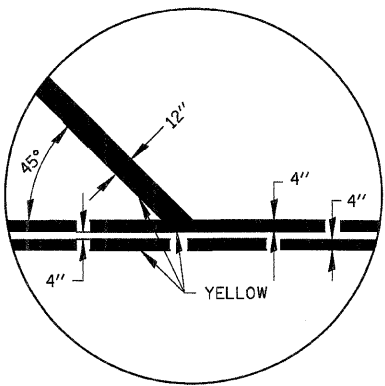


- NOTES:
1. USE 16 GAUGE STEEL FOR CABINET.
 2. THE TOP SHELF SHALL SLIDE IN OR OUT WITH THE TOP DOOR OPEN.
 3. ALL HINGES AND HASPS WILL BE WELDED TO THE CABINET.
 4. ALL EDGES SHALL BE GROUND SMOOTH.
 5. TWO (2" DIA.) ACCESS HOLES WILL BE REQUIRED FOR EACH SHELF.
 6. CABINET SHALL BE PAINTED WITH TWO COATS OF FLAT PAINT.
 7. 2 EACH MATCHING KEY PADLOCKS, WITH 3 KEYS PROVIDED, MASTER MODEL 3 T OR EQUIVALENT.
 8. 4 EACH PLAIN STEEL, NON-REMOVABLE PIN, NO HOLE 4"X4" SQUARE CORNER HINGES TO BE WELDED ON.
 9. 2 EACH EXTRA HEAVY, PLAIN STEEL, FIXED STAPLE, NO HOLE, 7 1/4 " HASPS TO BE WELDED ON.

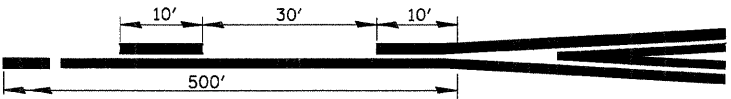


FLAT STOCK DIMENSIONS VARY DEPENDING ON TYPE OF ROLLER ASSEMBLY.

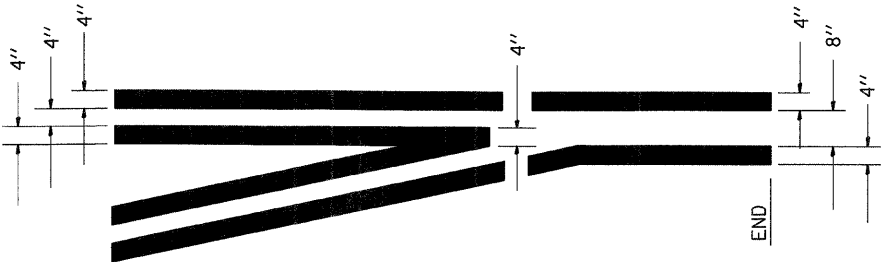
LOCKABLE COMPUTER CABINET



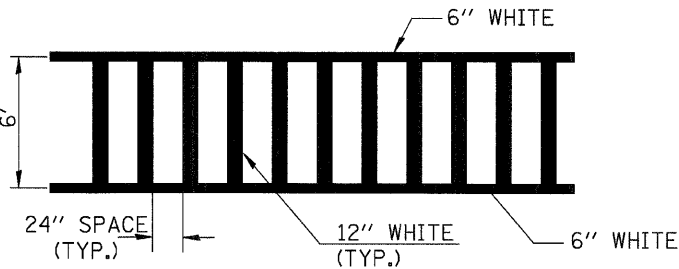
MEDIAN DIAGONAL



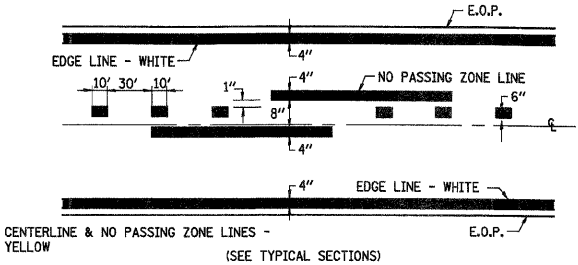
BEGIN AND END MEDIAN



TYPICAL APPLICATION @ LEFT TURN LANES



TYPICAL SPACING DETAIL FOR CROSSWALKS



PAVEMENT MARKING

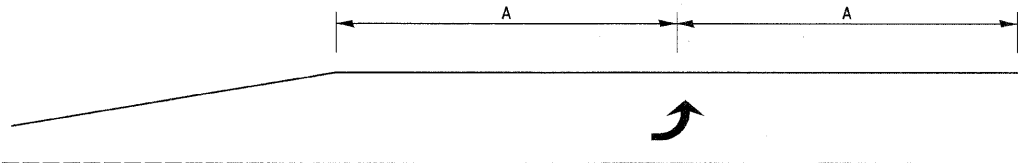
REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

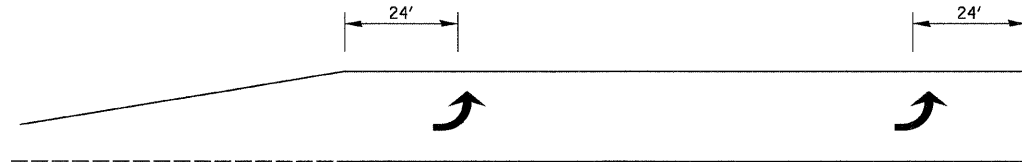
LOCKABLE COMPUTER CABINET & PAVEMENT MARKING DETAILS

SCALE: VERT. HORIZ. DATE

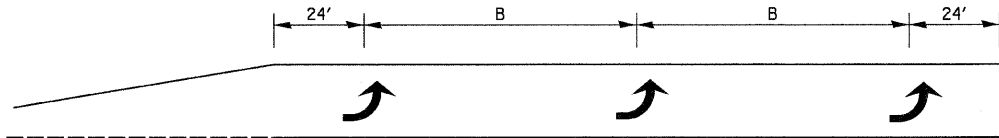
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99' AND UNDER

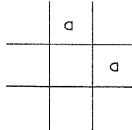
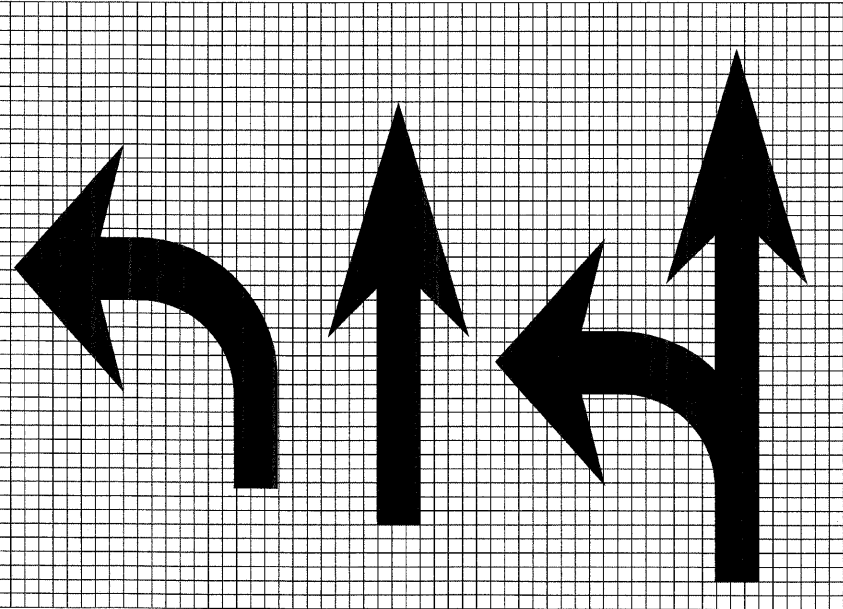
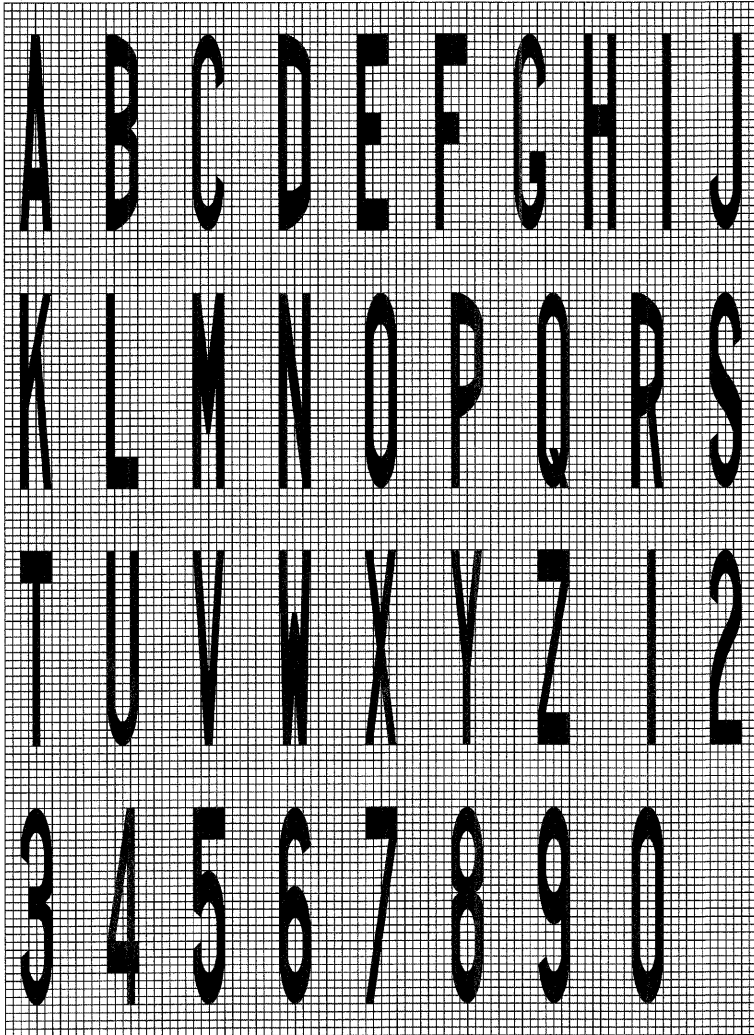


100' TO 149'



150' AND LONGER

TYPICAL PLACEMENT OF ARROWS
IN TURN LANES

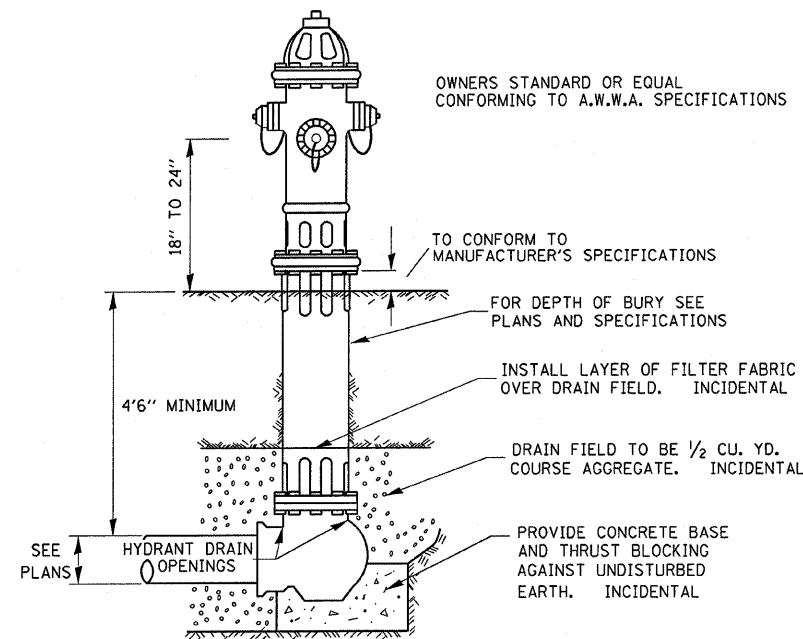


LEGEND HEIGHT	ARROW SIZE	a
6'	SMALL	2.9
8'	LARGE	3.8

THE SPACE BETWEEN ADJACENT LETTERS OR NUMERALS SHOULD BE APPROXIMATELY 3 FOR 6' LEGEND AND 4' FOR 8' LEGEND.

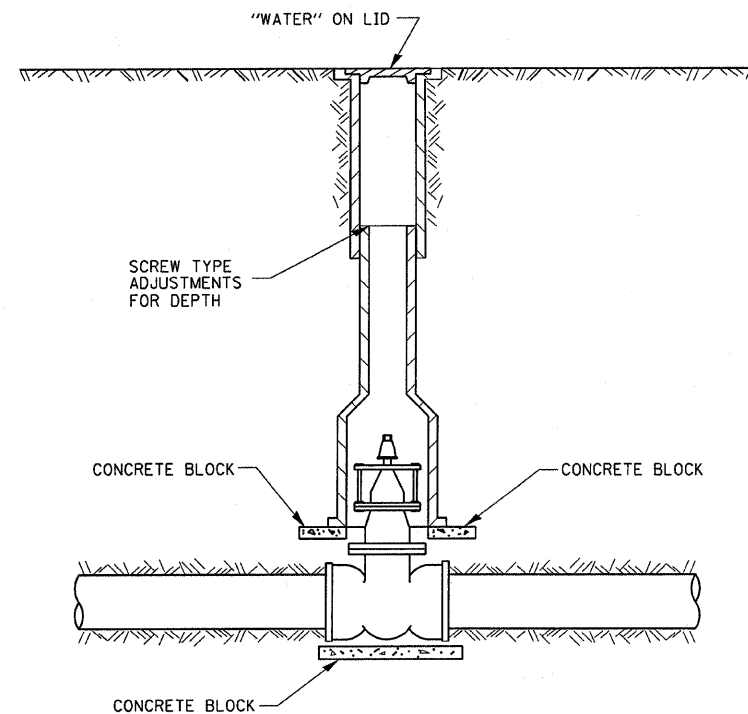
LETTER AND ARROW GRID SCALE

REVISIONS		ILLINOIS DEPARTMENT OF TRANSPORTATION
NAME	DATE	
		TURN ARROW DETAILS
		SCALE: VERT. DRAWN BY
		DATE CHECKED BY

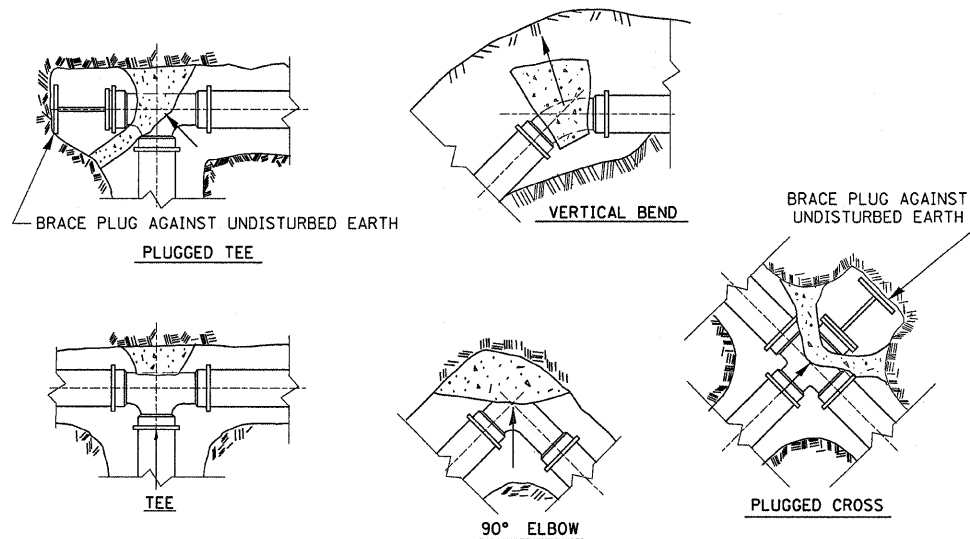


NOTE:
CONCRETE BASE AND BLOCKING MATERIAL SHALL
NOT BLOCK NOR OBSTRUCT HYDRANT DRAIN.

TYPICAL HYDRANT INSTALLATION



TYPICAL VALVE BOX INSTALLATION

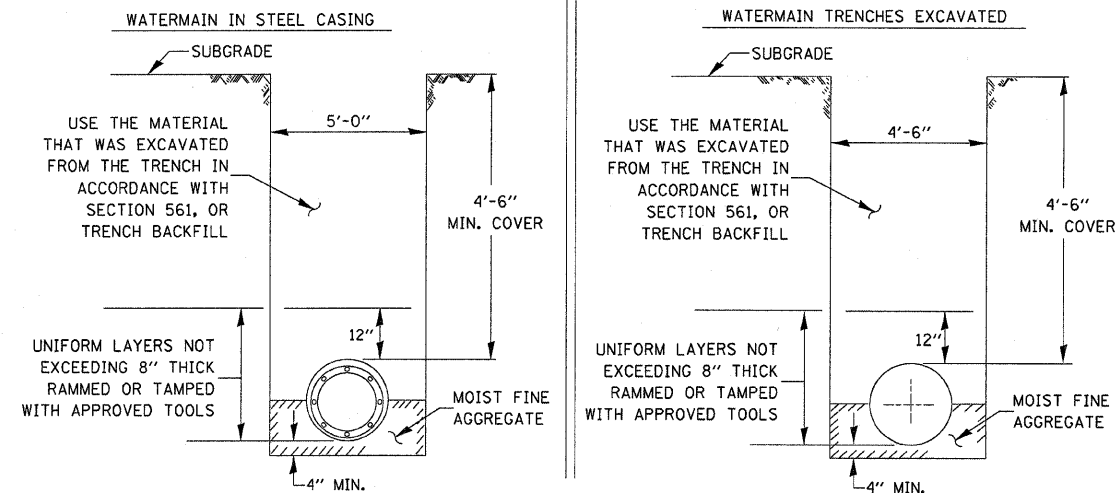


NOTES:

ALL BLOCKS BEAR AGAINST UNDISTURBED EARTH.
ALL BLOCKING SHALL BE 3,000 P.S.I. POURED CONCRETE.
ARROWS INDICATE DIRECTION OF THRUST.
ALL FITTINGS SHOWN IN PLAN EXCEPT VERTICAL BEND.

TYPICAL THRUST BLOCK INSTALLATIONS

WATERMAIN INSTALLATION REQUIREMENTS



GENERAL NOTES:

1. ANY SOFT OR SPONGY MATERIAL ENCOUNTERED BELOW THE ELEVATION OF THE PIPE SHALL BE REMOVED AND REPLACED WITH WELL COMPACTED MOIST FINE AGGREGATE.

2. ANY ROCK ENCOUNTERED IN THE TRENCH SHALL BE REMOVED TO A DEPTH OF AT LEAST 8 INCHES BELOW THE PIPE GRADE AND REPLACED WITH WELL COMPACTED MOIST FINE AGGREGATE.

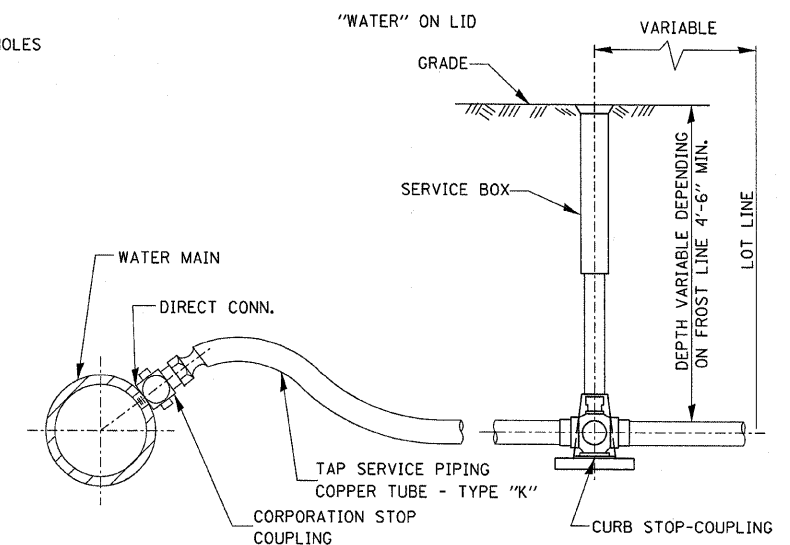
3. THE SIDES OF THE TRENCH MAY BE SLOPED OR BENCHED ABOVE A 5 FT. TRENCH DEPTH OR ABOVE THE ELEVATION OR THE TOP OF PIPE, WHICHEVER IS GREATER, IN LIEU OF COMPLETE SHORING OR SHEETING OF THE FULL TRENCH DEPTH.

BACKFILL OPTIONS:

METHOD 1: UNIFORM LAYERS NOT EXCEEDING 12" THICK RAMMED OR TAMPED WITH APPROVED TOOLS

METHOD 2: UNIFORM LAYERS NOT EXCEEDING 12" THICK INUNDATED OR DEPOSITED IN WATER

METHOD 3: FILL TRENCH WITH LOOSE MATERIAL THEN JET WITH WATER, 6 FT MINIMUM SPACING OF HOLES



TYPICAL TAP SERVICE PIPING (COPPER)

REVISIONS	
NAME	DATE

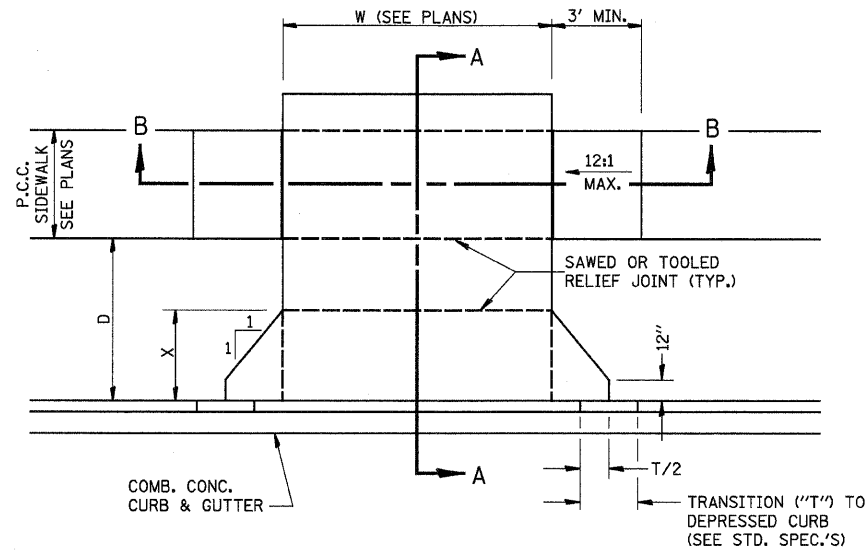
ILLINOIS DEPARTMENT OF TRANSPORTATION

WATERMAIN DETAILS

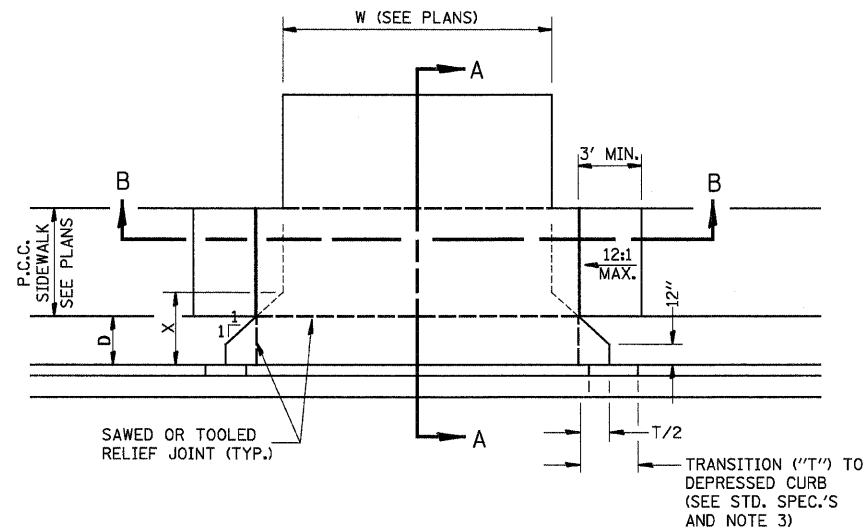
SCALE: VERT.
HORIZ.
DATE

DRAWN BY
CHECKED BY

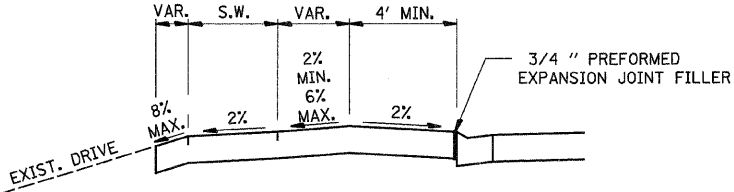
CONTRACT NO. 66601				
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
326	▪	LIVINGSTON	354	162
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		
▪(123,123X)RS-3, (124)RS-5, (123)BR-3				



CASE I (D ≥ X)

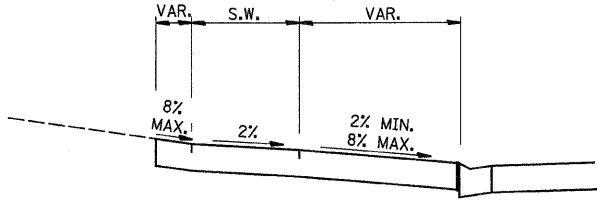


CASE I (D < X)

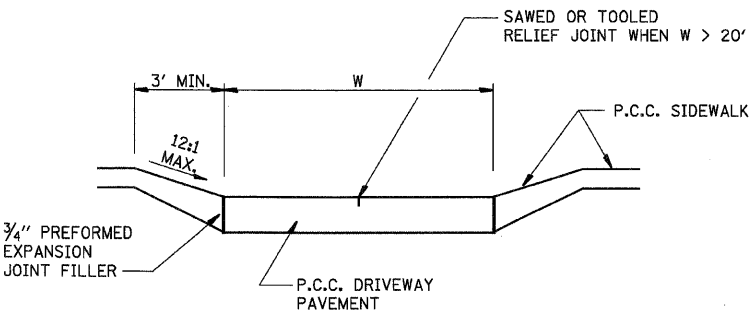


DEPRESSED ENTRANCE*
SECTION A-A

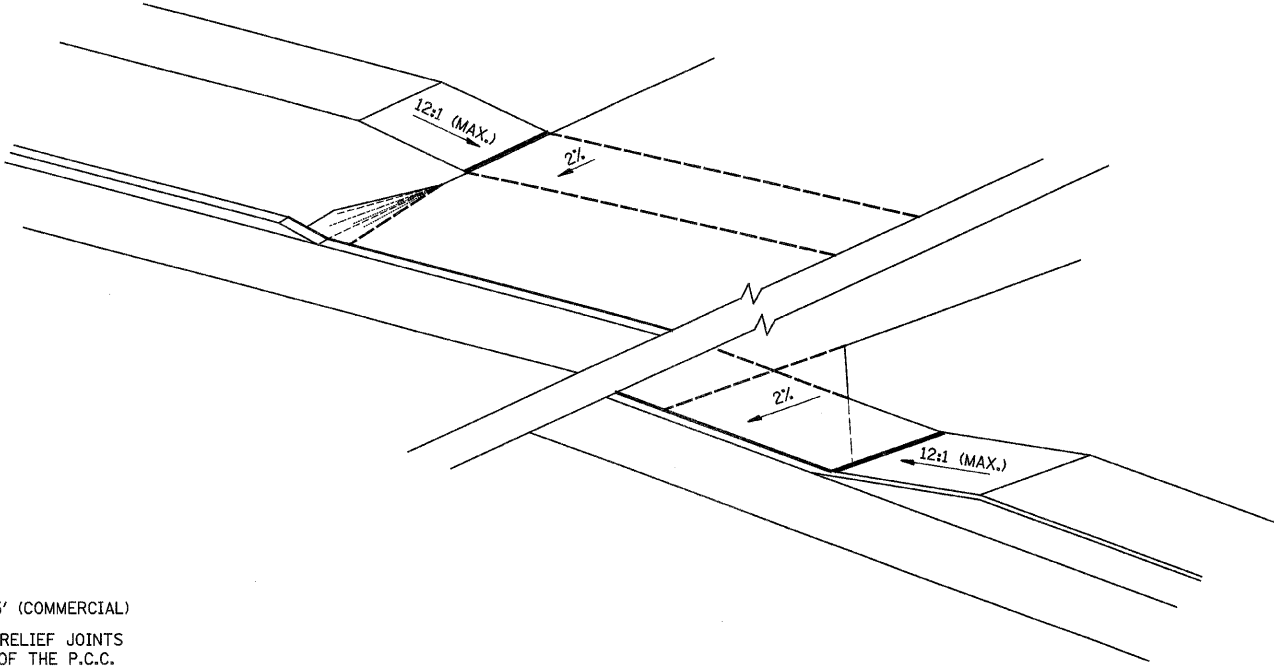
*(SEE X-SECTIONS FOR
ENTRANCE PROFILE.)



ELEVATED ENTRANCE*
SECTION A-A



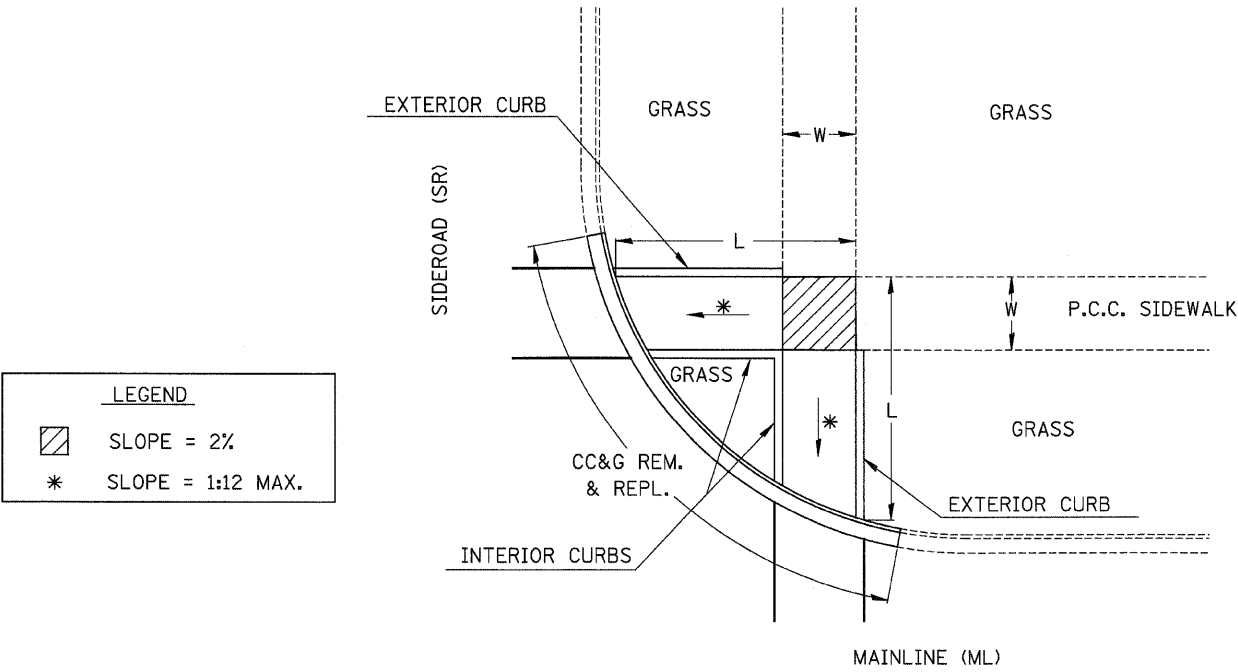
SECTION B-B



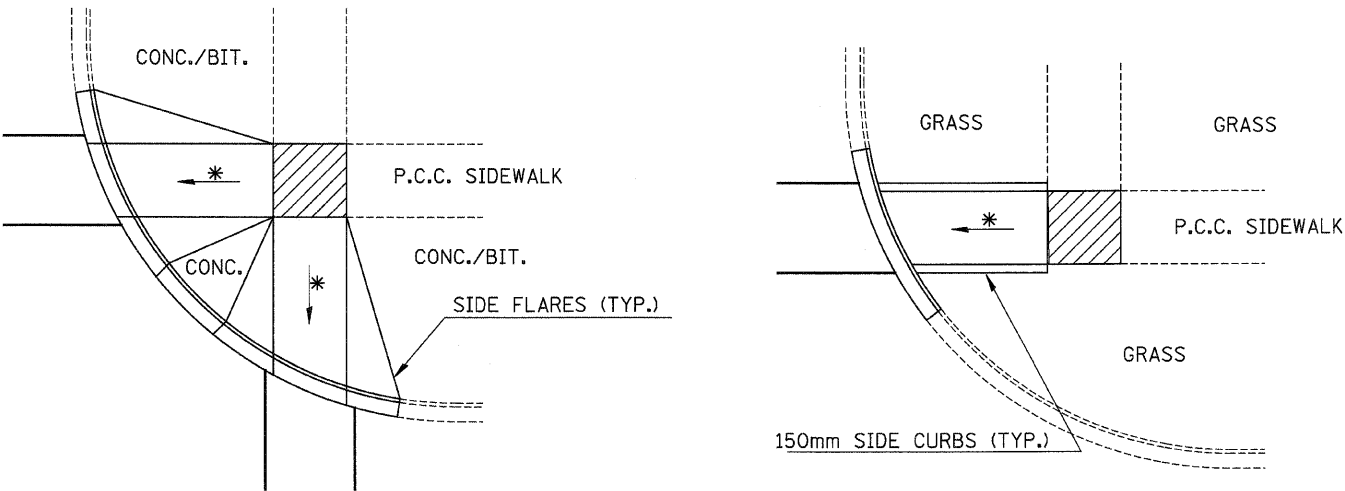
- GENERAL NOTES:
- X = 7' (NON-COMMERCIAL) X = 15' (COMMERCIAL)
 - COST OF EXPANSION JOINTS AND RELIEF JOINTS SHALL BE INCLUDED IN THE COST OF THE P.C.C. DRIVEWAY PAVEMENT.
 - AS THE DIMENSION "D" APPROACHES ZERO, THE TRANSITION TO DEPRESSED CURB SHALL BE NO STEEPER THAN 12:1

PCC URBAN ENTRANCES

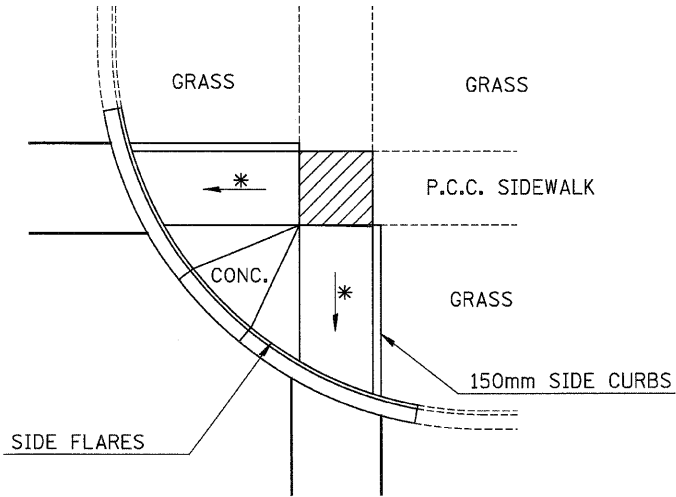
REVISIONS		ILLINOIS DEPARTMENT OF TRANSPORTATION	
NAME	DATE	PCC URBAN ENTRANCES	
		SCALE: VERT. HORIZ.	
		DATE	
		DRAWN BY	
		CHECKED BY	



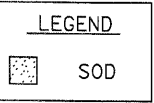
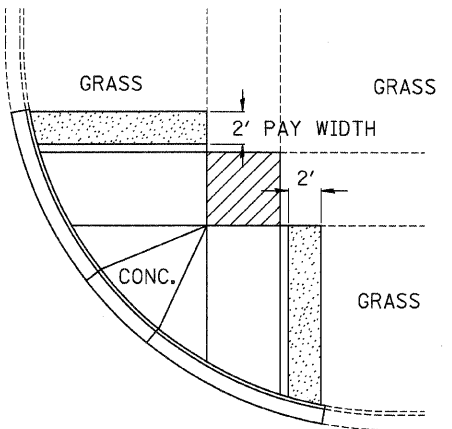
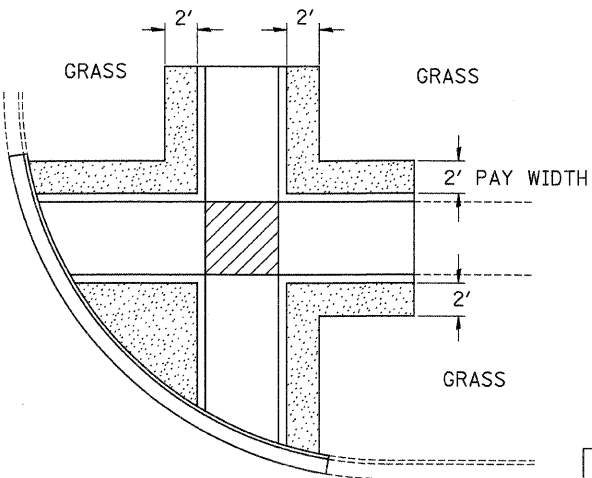
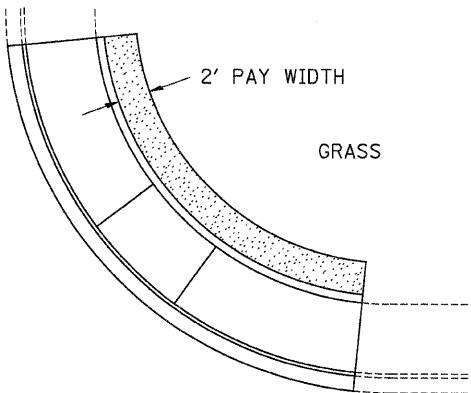
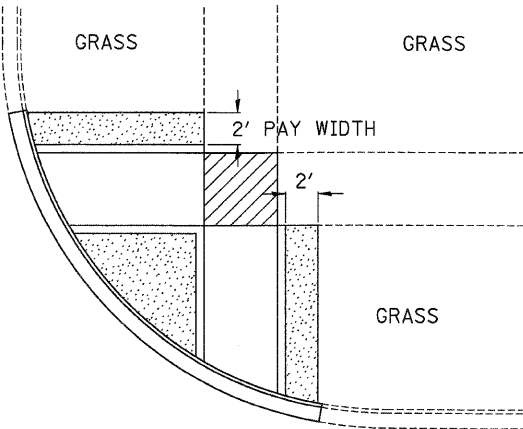
METHOD 1



TYPICAL CURB APPLICATIONS FOR METHOD 1

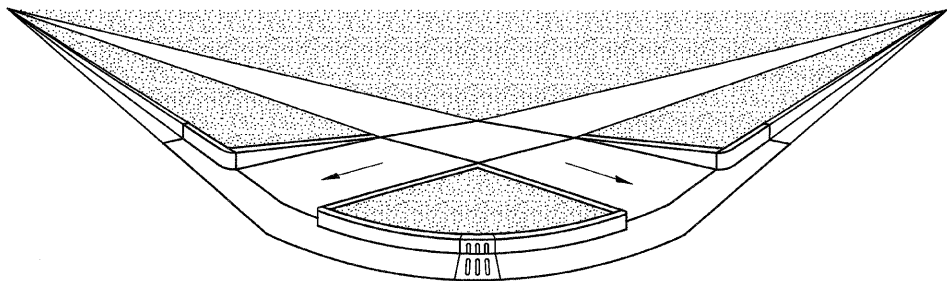


ADA SIDEWALK
ACCESSIBILITY RAMPS



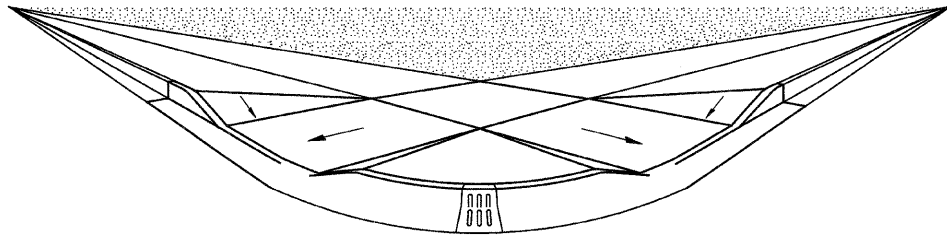
TYPICAL SODDING DETAILS
FOR SIDEWALK RAMPS

REVISIONS		ILLINOIS DEPARTMENT OF TRANSPORTATION	
NAME	DATE	ADA SIDEWALK ACCESSIBILITY RAMPS (METHOD 1)	
		SCALE: VERT. HORIZ.	
		DATE	
		DRAWN BY	
		CHECKED BY	



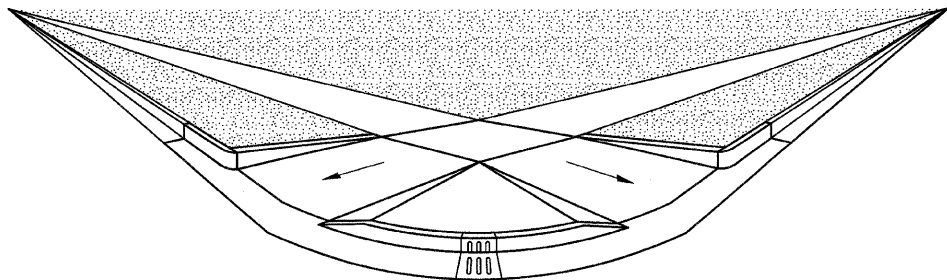
METHOD 1 PERSPECTIVE
WITH SIDE CURBS

ADA SIDEWALK
ACCESSIBILITY RAMP



METHOD 1 PERSPECTIVE
WITH SIDE FLARES

ADA SIDEWALK
ACCESSIBILITY RAMP



METHOD 1 PERSPECTIVE
WITH SIDE CURBS AND SIDE FLARES

ADA SIDEWALK
ACCESSIBILITY RAMP

REVISIONS	
NAME	DATE

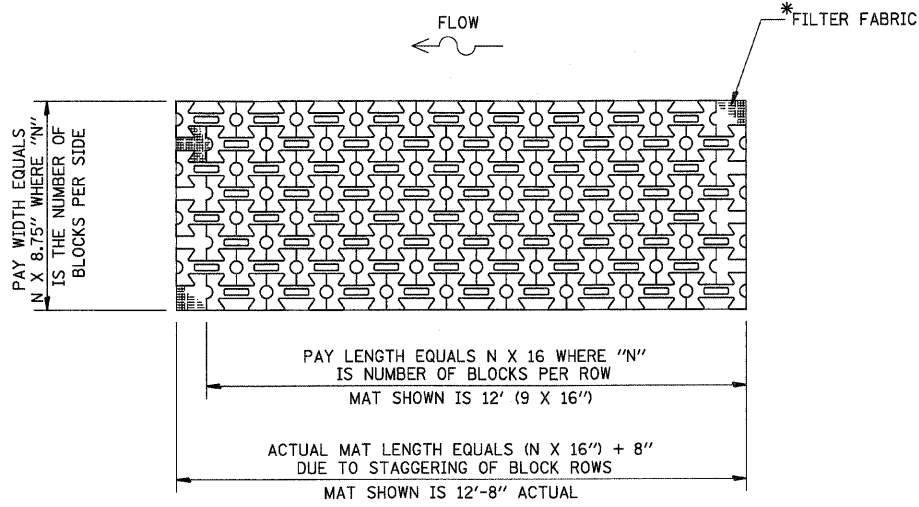
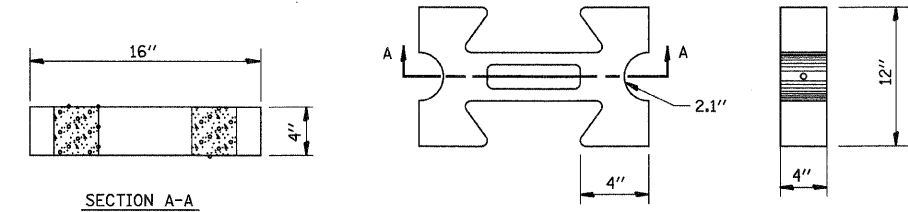
ILLINOIS DEPARTMENT OF TRANSPORTATION

ADA SIDEWALK
ACCESSIBILITY RAMP
(METHOD 1)

SCALE: VERT.
HORIZ.
DATE

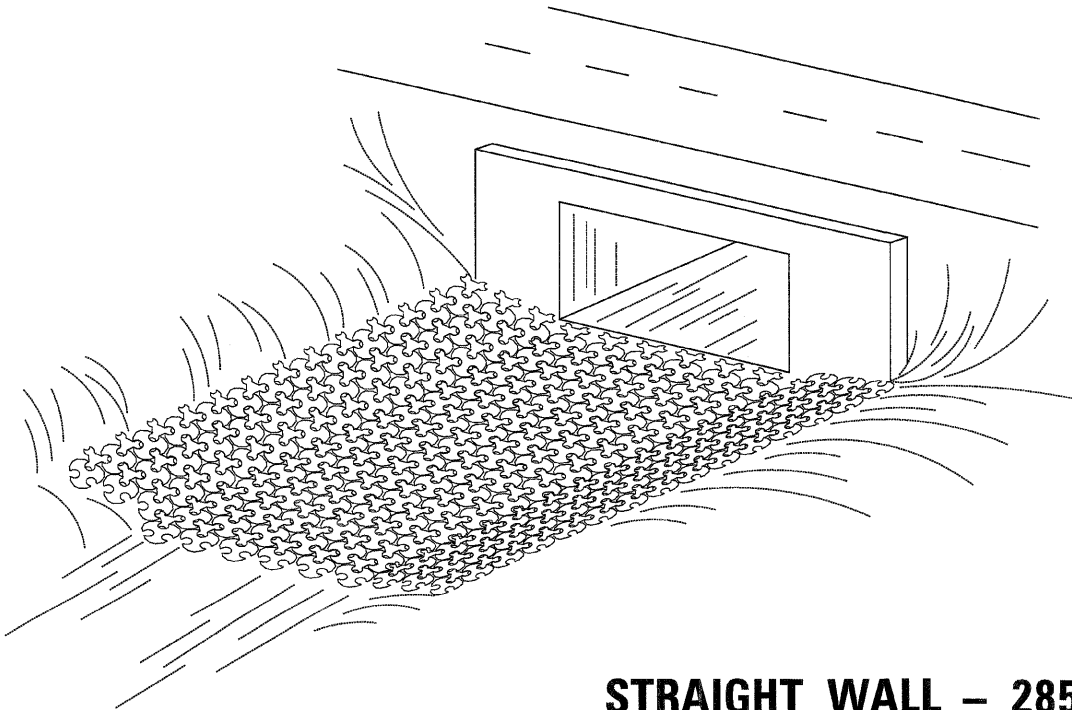
DRAWN BY
CHECKED BY

CONTRACT NO. 66601				
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
326	•	LIVINGSTON	354	166
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		
•(123,123X)RS-3, (124)RS-5, (123)BR-3				

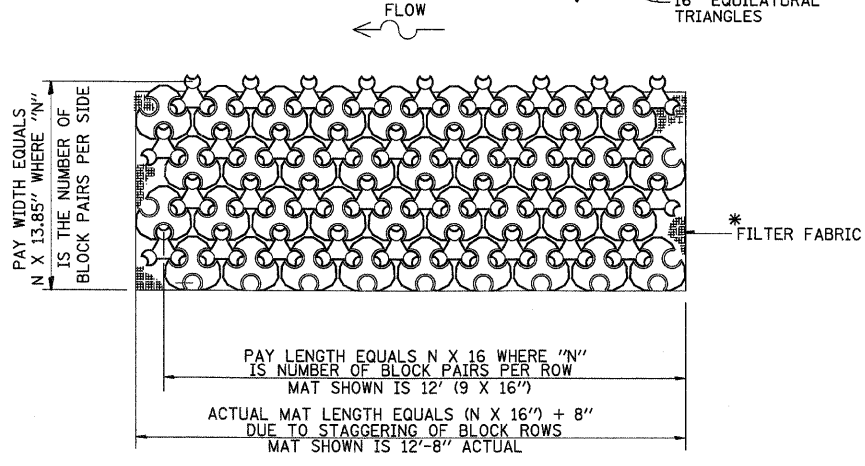
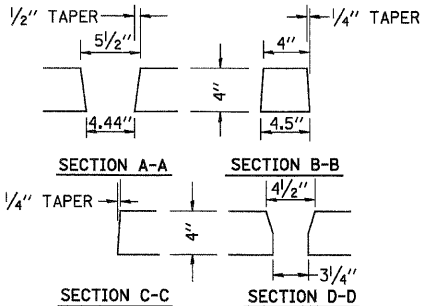


* FILTER FABRIC SHALL COVER THE SAME AREA AS THE MAT WITH 12" (MINIMUM) TOE WALLS AT ALL EXTERIOR LIMITS.

OPTION B



STRAIGHT WALL – 285-2



* FILTER FABRIC SHALL COVER THE SAME AREA AS THE MAT WITH 12" TOE WALLS AT ALL EXTERIOR LIMITS.

OPTION A

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

LAND SECTION MARKERS

CONTRACT NO. 66601				
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
326	•	LIVINGSTON	354	167
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	
•(123,123X)RS-3, (124)RS-5, (123)BR-3				

NOTES

THE REFERENCE MARKERS SHALL BE CONSTRUCTED BY POURING CLASS SI CONCRETE INTO HOLES PREPARED BY A POST HOLE DIGGER OR OTHER APPROVED METHODS. FORMS WILL NOT BE REQUIRED. PRECAST MARKERS OF THE SAME SIZE AND CONSTRUCTION MAY BE USED.

IN CULTIVATED FIELDS REFERENCE MARKERS SHALL BE PLACED TWO FEET BELOW THE GROUND SURFACE. IN FENCE LINES OR PROTECTED AREAS THE TOP SHALL BE PLACED AT GROUND LEVEL.

THE FOLLOWING WORK SHALL BE DONE UNDER THE DIRECTION OF A REGISTERED LAND SURVEYOR OF THE STATE OF ILLINOIS:

VERIFY AND TIE OFF ALL U.S. PUBLIC LAND SURVEY MONUMENTS, SHOWN IN THE PLANS, PRIOR TO CONSTRUCTION OPERATIONS. TIE POINTS SHALL BE SUFFICIENT IN NUMBER AND IN LOCATIONS AS NOT TO BE DISTURBED DURING CONSTRUCTION OPERATIONS.

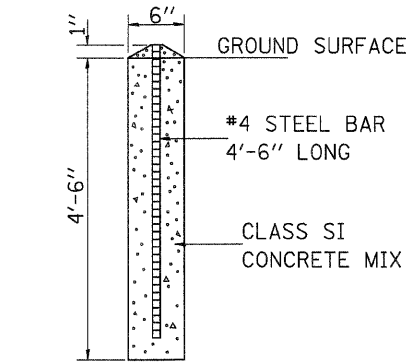
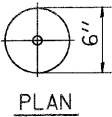
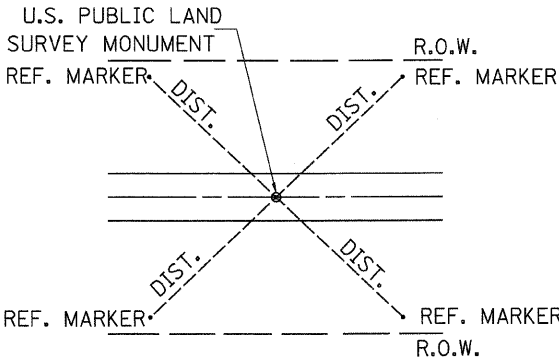
AFTER CONSTRUCTION OPERATIONS ARE COMPLETE, INSTALL A PERMANENT SURVEY MARKER OF THE TYPE SPECIFIED TO REPLACE THE U.S. PUBLIC LAND SURVEY MONUMENT THAT WAS DISPLACED ORCOVERED DURING CONSTRUCTION. THE LETTERING REFERRING TO THE STATE OR ILLINOIS AND DIVISION OF HIGHWAYS SHALL BE OMITTED FROM THE PERMANENT SURVEY MARKER AND THE MARKER SHALL BE MARKED AS DIRECTED BY THE ENGINEER.

SET FOUR CONCRETE REFERENCE MARKERS FOR EACH U.S. PUBLIC LAND SURVEY MONUMENT.

PREPARE MONUMENT RECORDS, FILE THE RECORDS AT THE COUNTY RECORDER'S OFFICE, AND PROVIDE A COPY TO THE DISTRICT OFFICE.

PERMANENT SURVEY MARKERS, OF THE TYPE SPECIFIED SHALL BE PAID FOR AT THE CONTRACT UNIT PRICE, EACH, WHICH WILL BE PAYMENT IN FULL FOR FURNISHING, INSTALLING, AND MARKING SAID MARKERS.

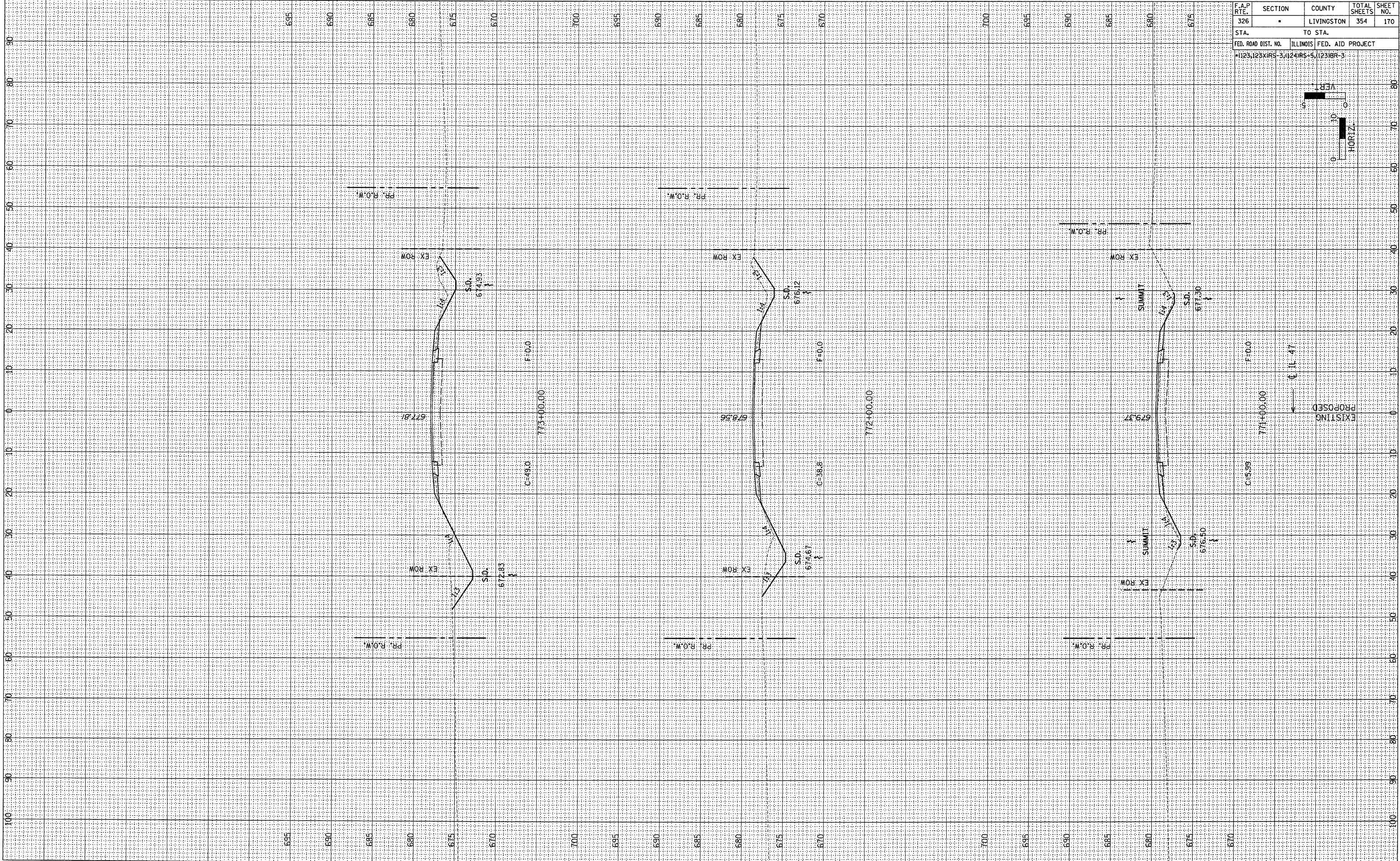
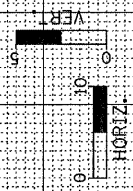
LAND SECTION MARKERS SHALL BE PAID FOR AT THE CONTRACT UNIT PRICE, EACH, WHICH WILL BE PAYMENT IN FULL FOR SETTING TIE POINTS, SETTING FOUR CONCRETE REFERENCE MARKERS, PREPARING MONUMENT RECORDS, RECORDING AT COUNTY RECORDER'S OFFICE AND PROVIDING A COPY TO THE DISTRICT.



SECTION
CONCRETE REFERENCE MARKER

REVISIONS		ILLINOIS DEPARTMENT OF TRANSPORTATION	
NAME	DATE		LAND SECTION MARKER DETAILS
		SCALE: VERT. HORIZ.	DRAWN BY
		DATE	CHECKED BY

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
326	*	LIVINGSTON	354	170
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	
*1123,123XIRS-3,1124IRS-5,1123IBR-3				



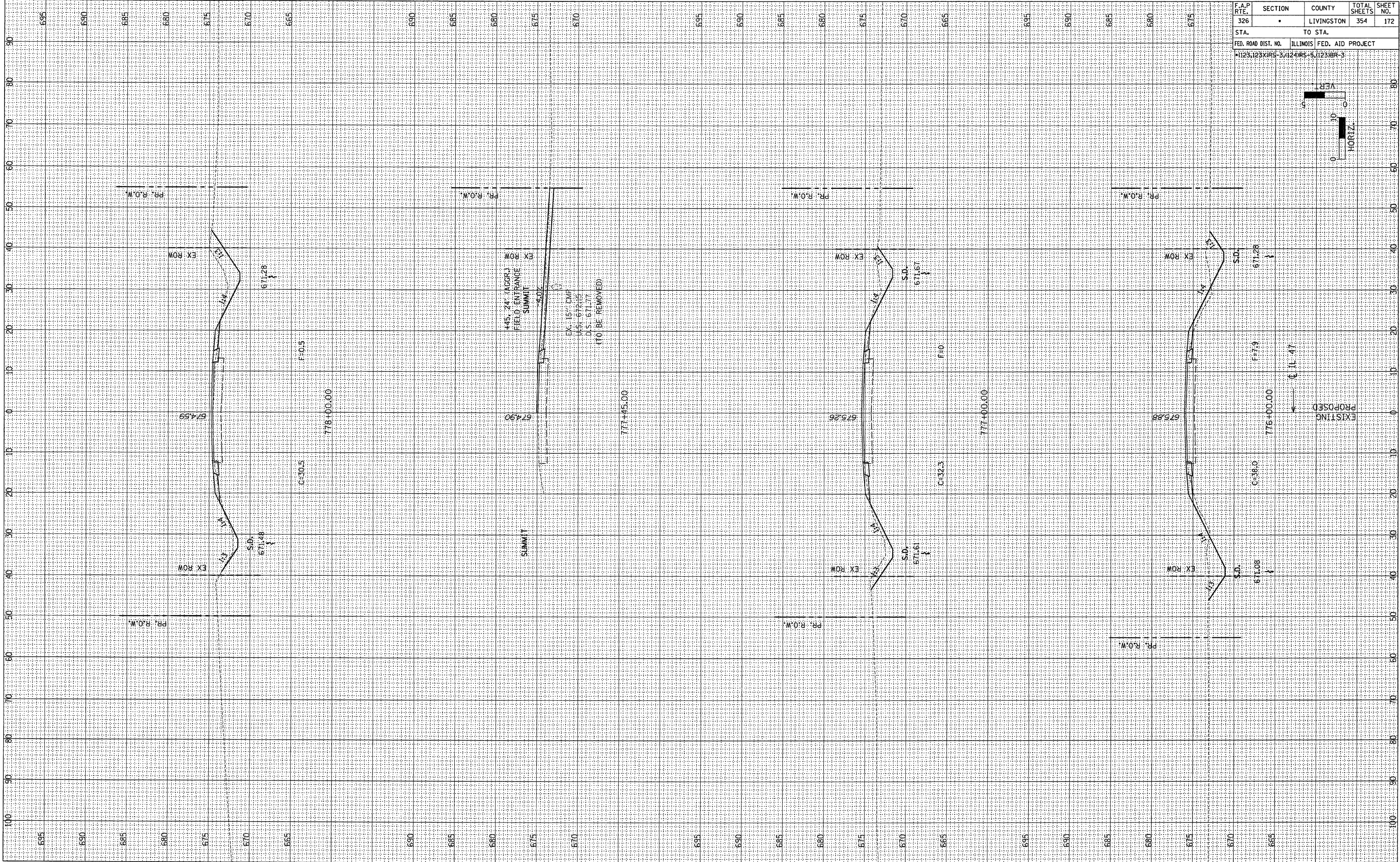
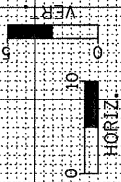
EXISTING
PROPOSED

IL 47

FINAL SURVEY	DATE	BY
SURVEYED		
PLOTTED		
NOTE BOOK		
AREAS CHECKED		

ORIGINAL SURVEY	DATE	BY
SURVEYED		
PLOTTED		
NOTE BOOK		
AREAS CHECKED		

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
326	•	LIVINGSTON	354	172
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	
•1123123XIRS-3/124RS-5/123BR-3				



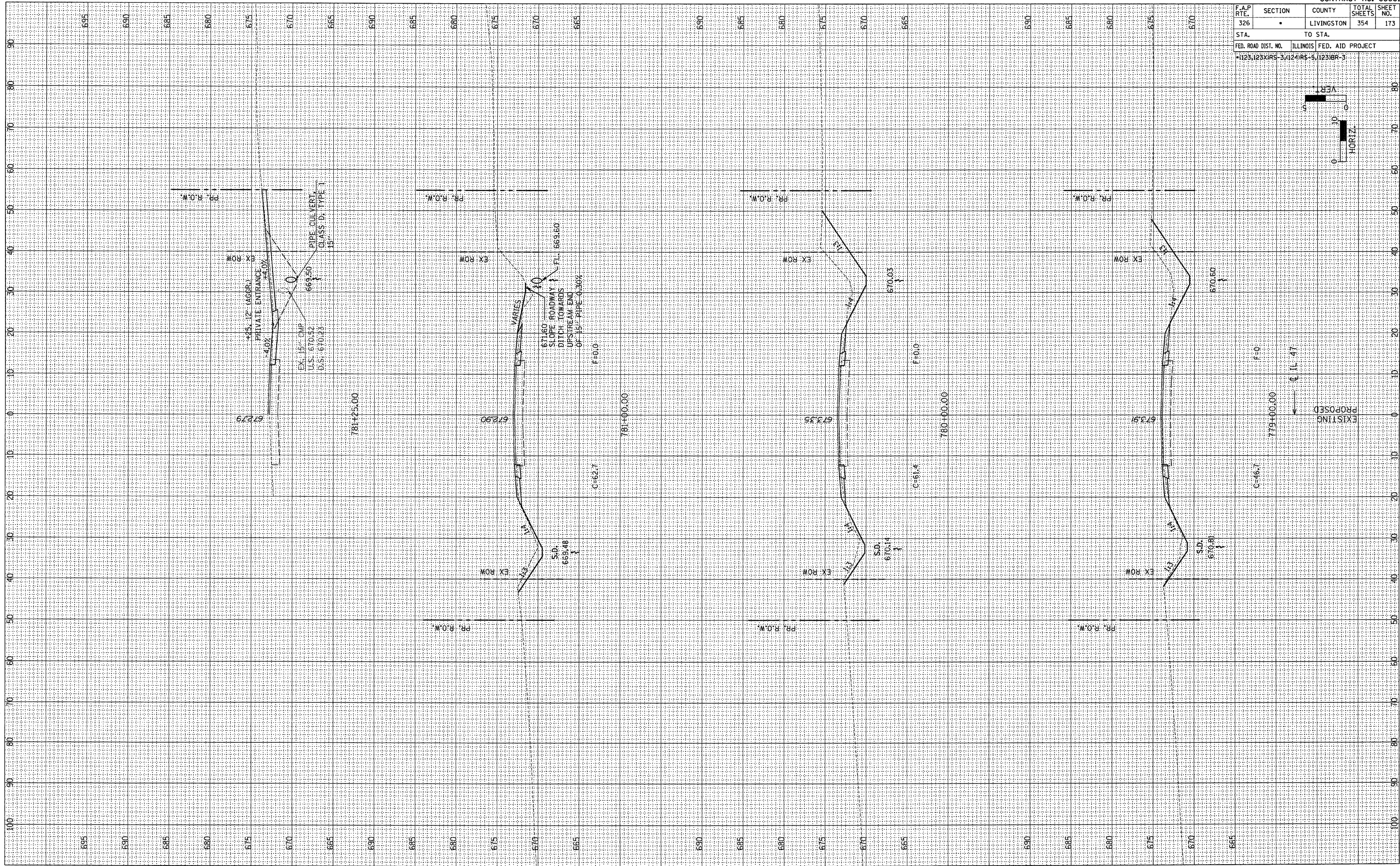
EXISTING
PROPOSED

FINAL SURVEY	DATE	BY
SURVEYED		
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ORIGINAL SURVEY	DATE	BY
SURVEYED		
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AREAS CHECKED		

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

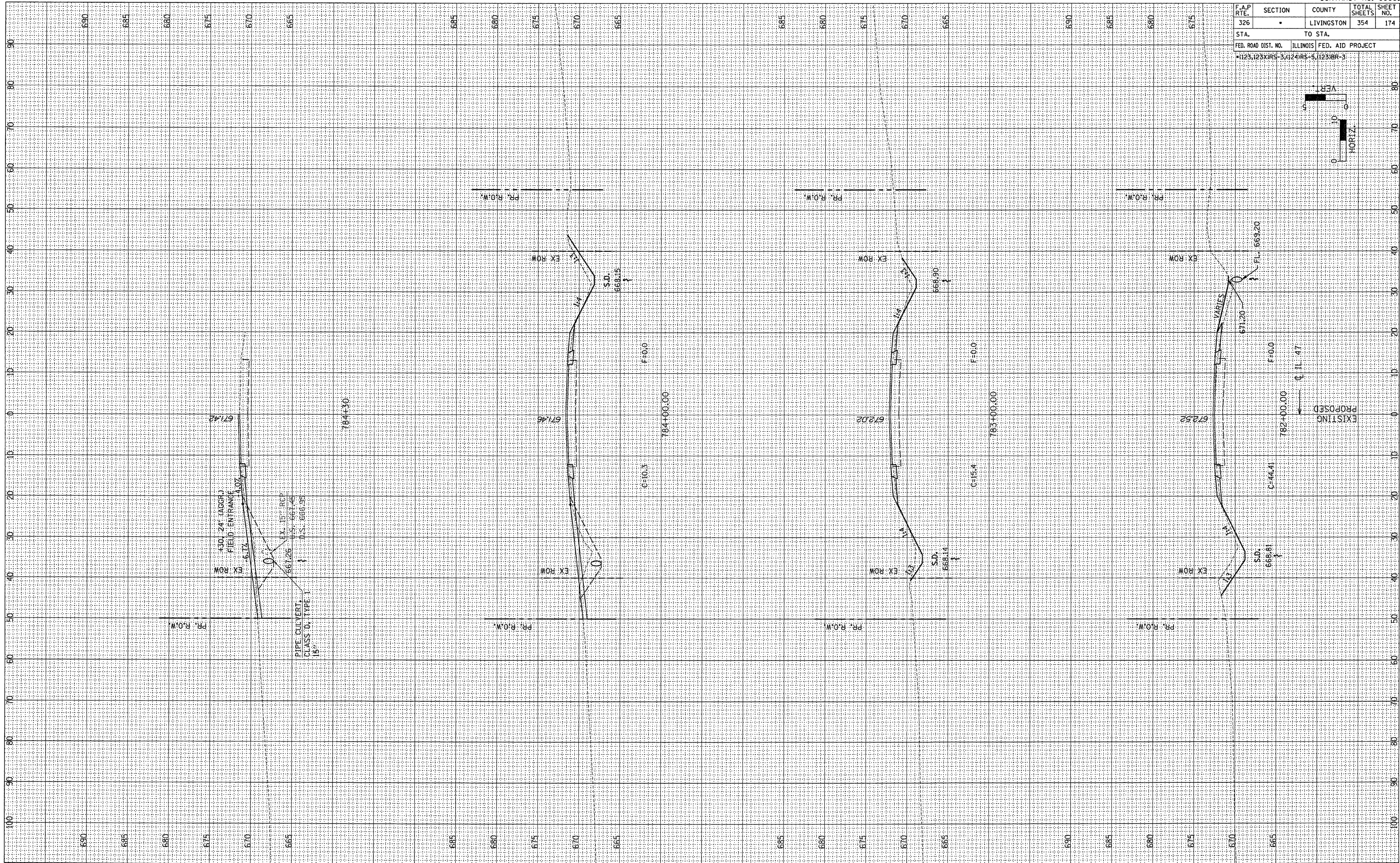
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SURVEY	PLOTTED		
NOTE BOOK	TEMPLATE		
NO.	AREAS CHECKED		



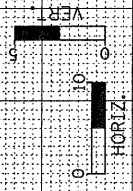
CONTRACT NO. 66601				
F.A.P. RTE. 326	SECTION •	COUNTY LIVINGSTON	TOTAL SHEETS 354	SHEET NO. 173
STA. 1123+123XIRS-3, 1124+RS-5, 1123+BR-3		TO STA. FED. AID PROJECT		

FINAL	DATE	BY
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ORIGINAL	DATE	BY
SURVEY		
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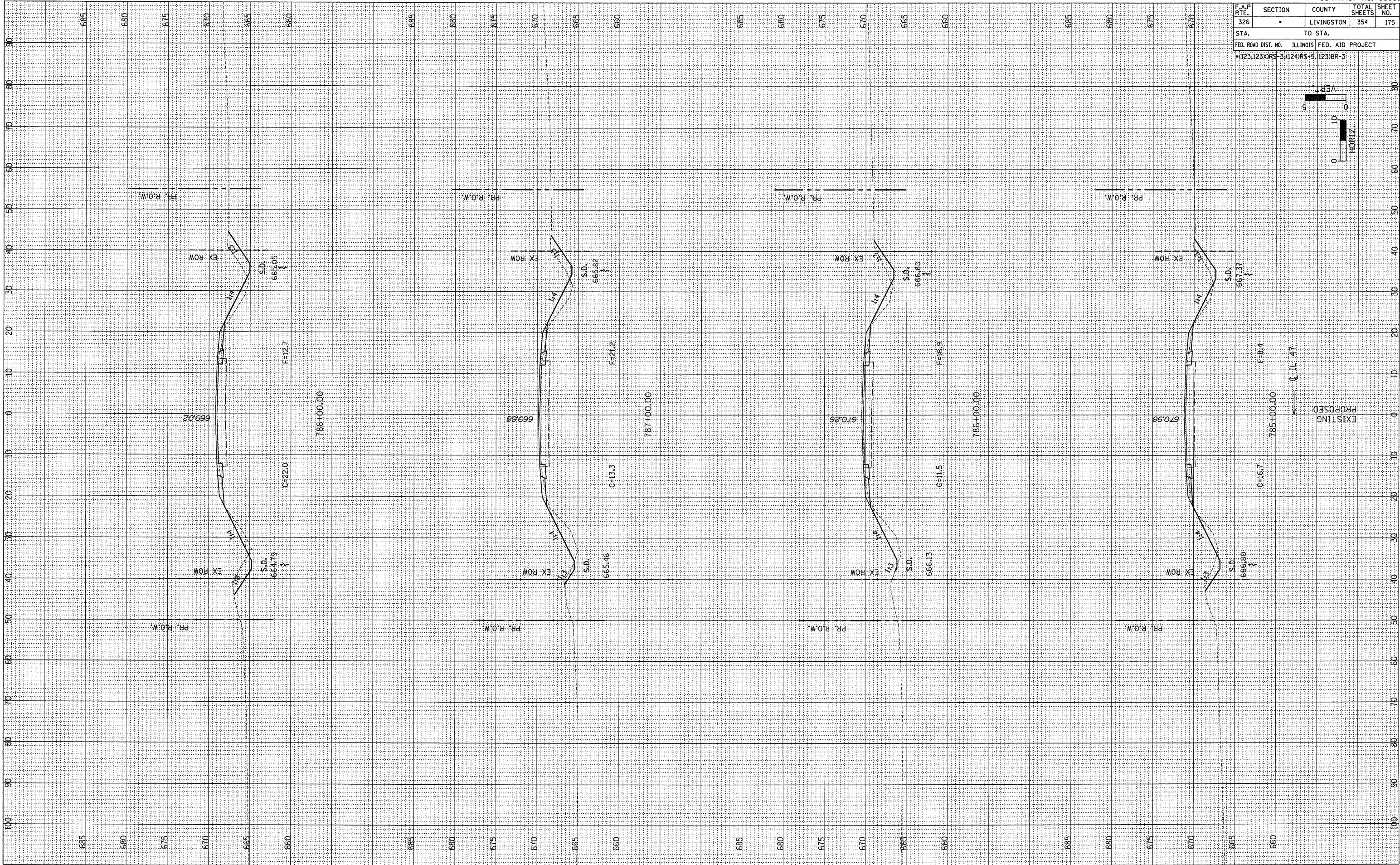


CONTRACT NO. 66601				
F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
326	*	LIVINGSTON	354	174
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		
*1123,123XRS-3,1124RS-5,1123RR-3				



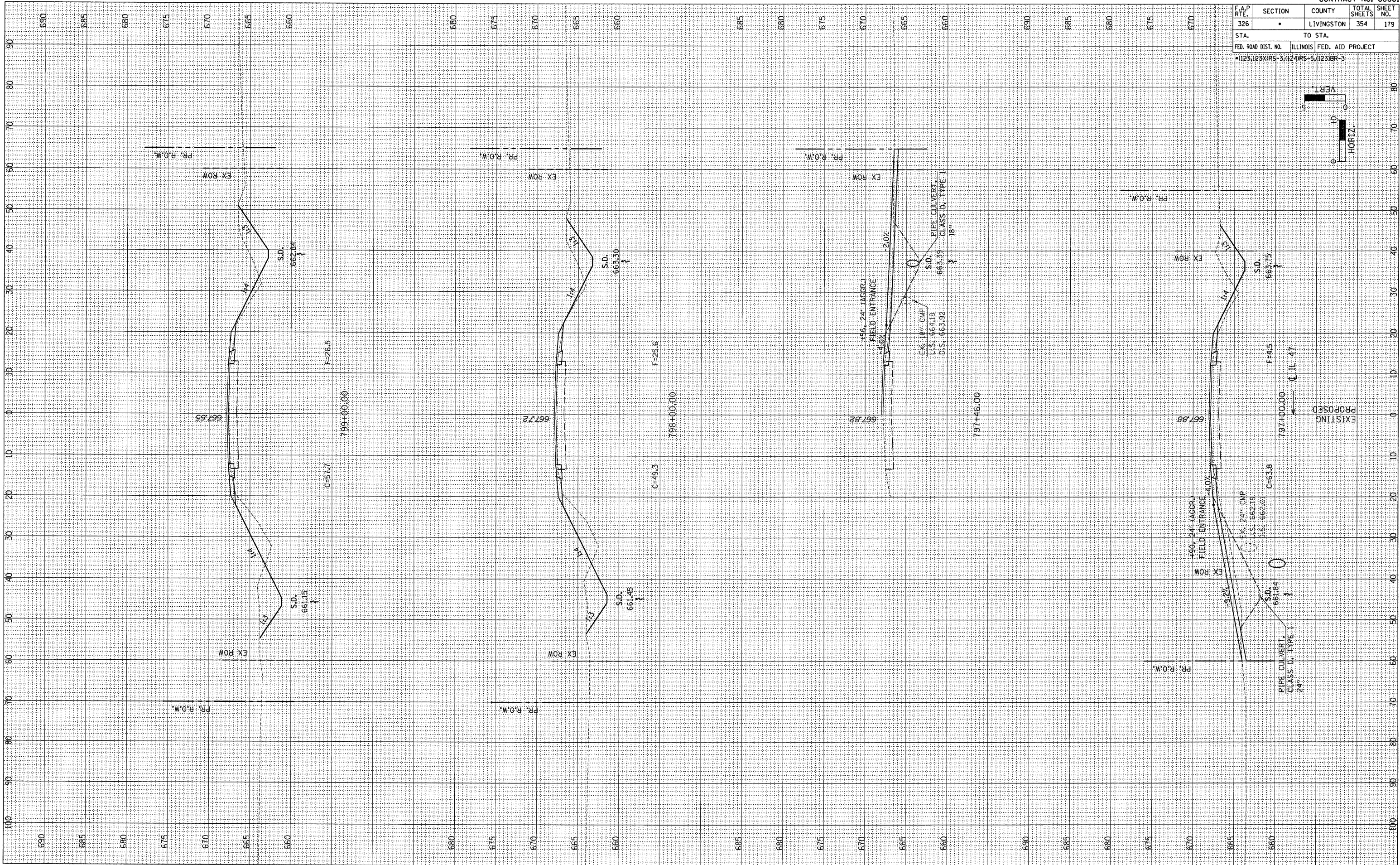
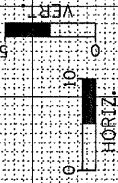
FINAL	DATE	BY
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ORIGINAL	DATE	BY
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CONTRACT NO. 66601				
F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
326	*	LIVINGSTON	354	175
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		
*123,123XIRS-3,124IRS-5,123IBR-3				

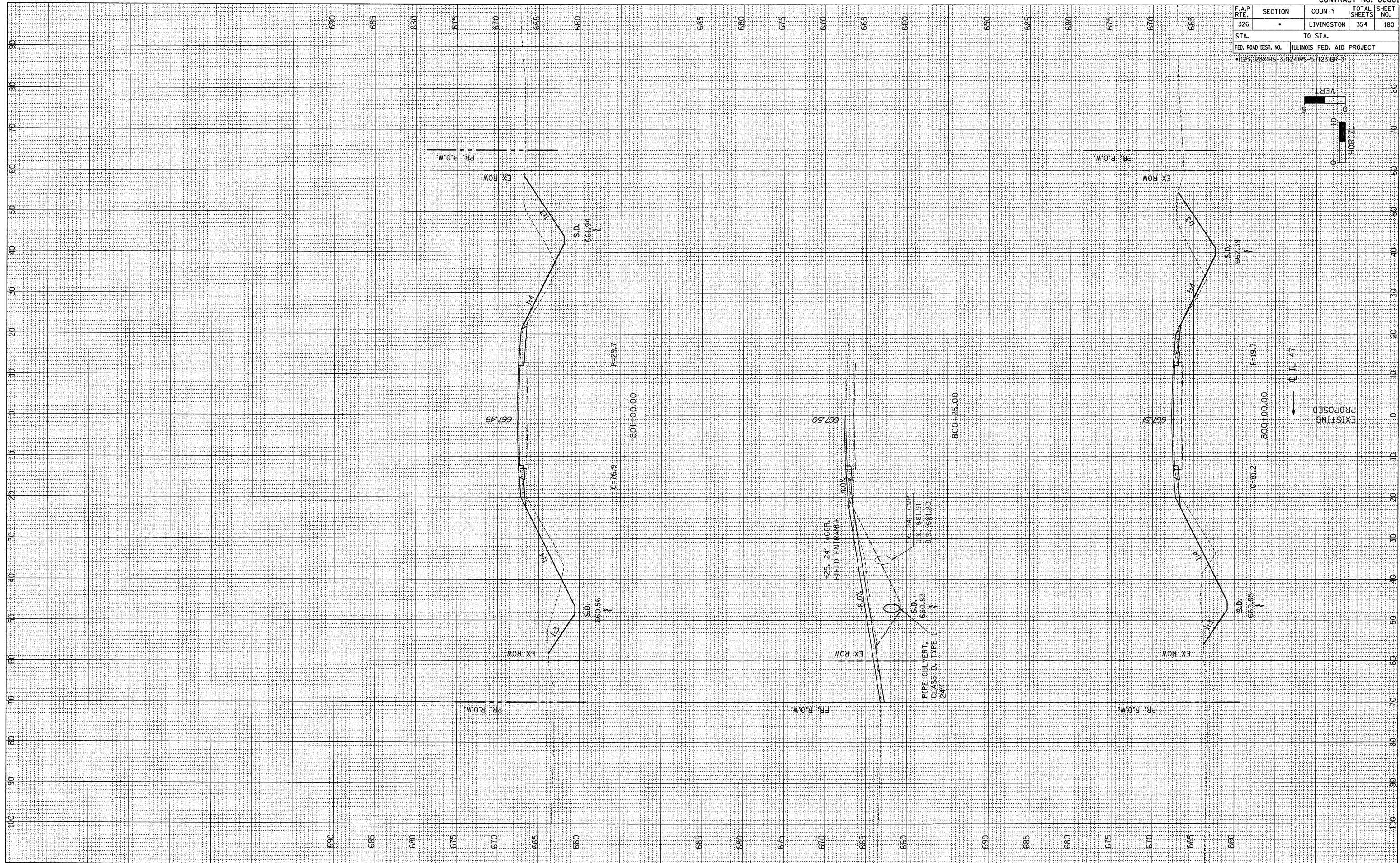
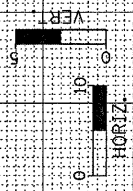
F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
326	•	LIVINGSTON	354	179
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	
•1123,123XRS-3,1124RS-5,123BR-3				



FINAL SURVEY	DATE	BY
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ORIGINAL SURVEY	DATE	BY
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CONTRACT NO. 66601				
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
326	•	LIVINGSTON	354	180
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS		FED. AID PROJECT
•11231128XIRS-311241RS-511231BR-3				

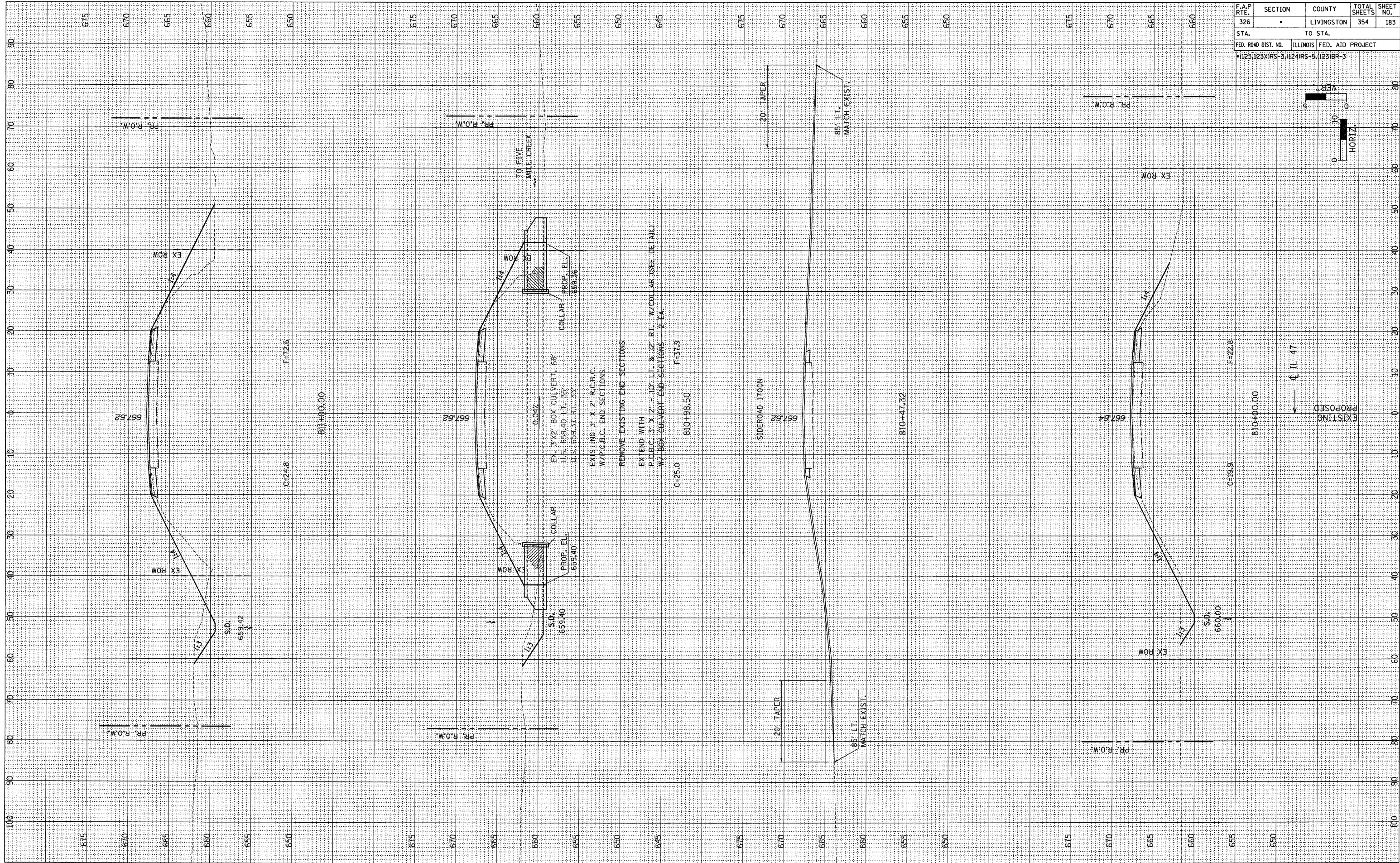


FINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK	TEMPLATE		
NO.	AREAS CHECKED		

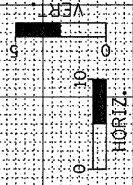
ORIGINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK	TEMPLATE		
NO.	AREAS CHECKED		

FINAL	DATE	BY
SURVEY		
NOTE BOOK		
NO.		

ORIGINAL	DATE	BY
SURVEY		
NOTE BOOK		
NO.		

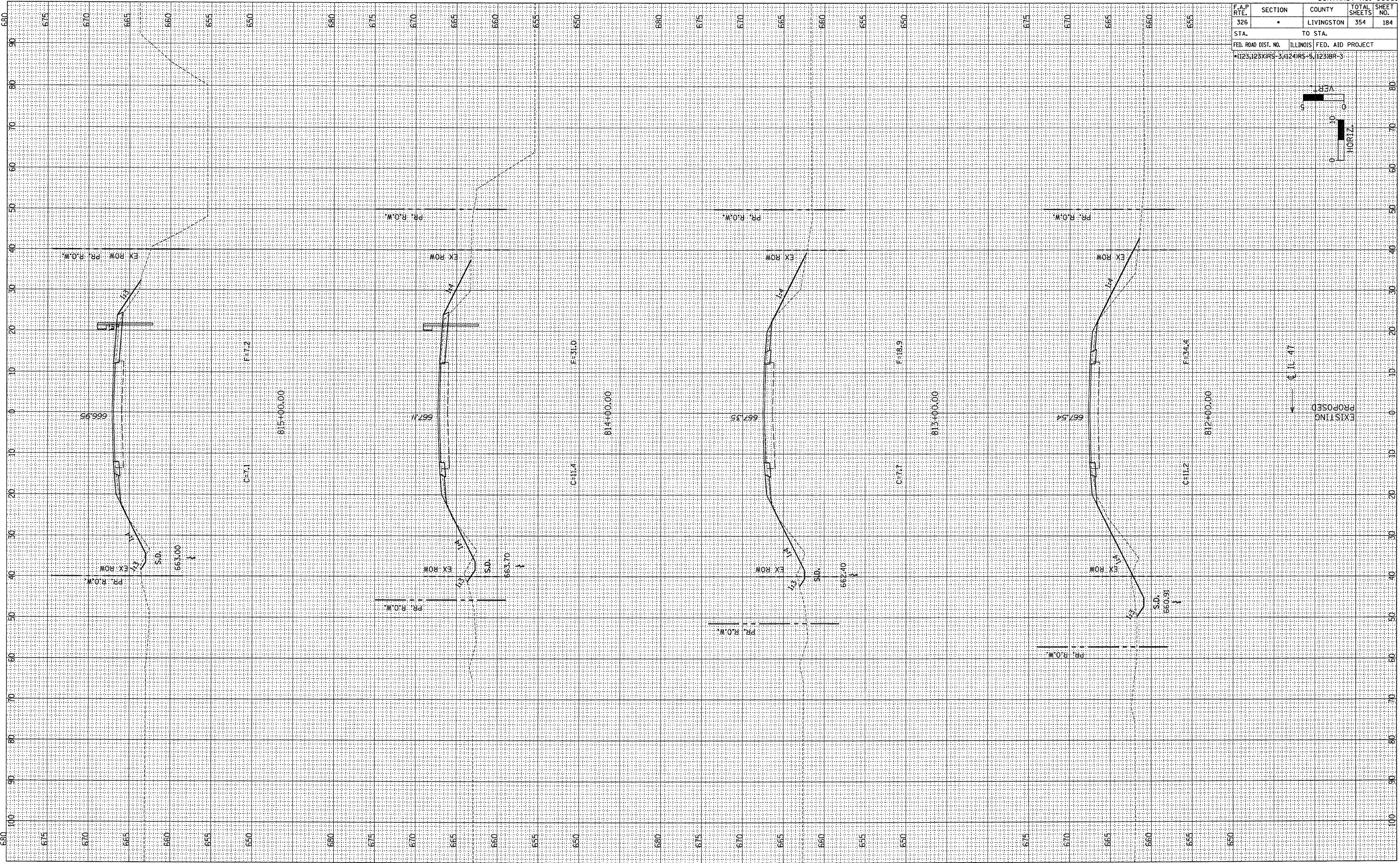


F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
326	•	LIVINGSTON	354	184
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	
•1123,123XIRS-3;1124RS-5;1123IBR-3				



EXISTING
PROPOSED

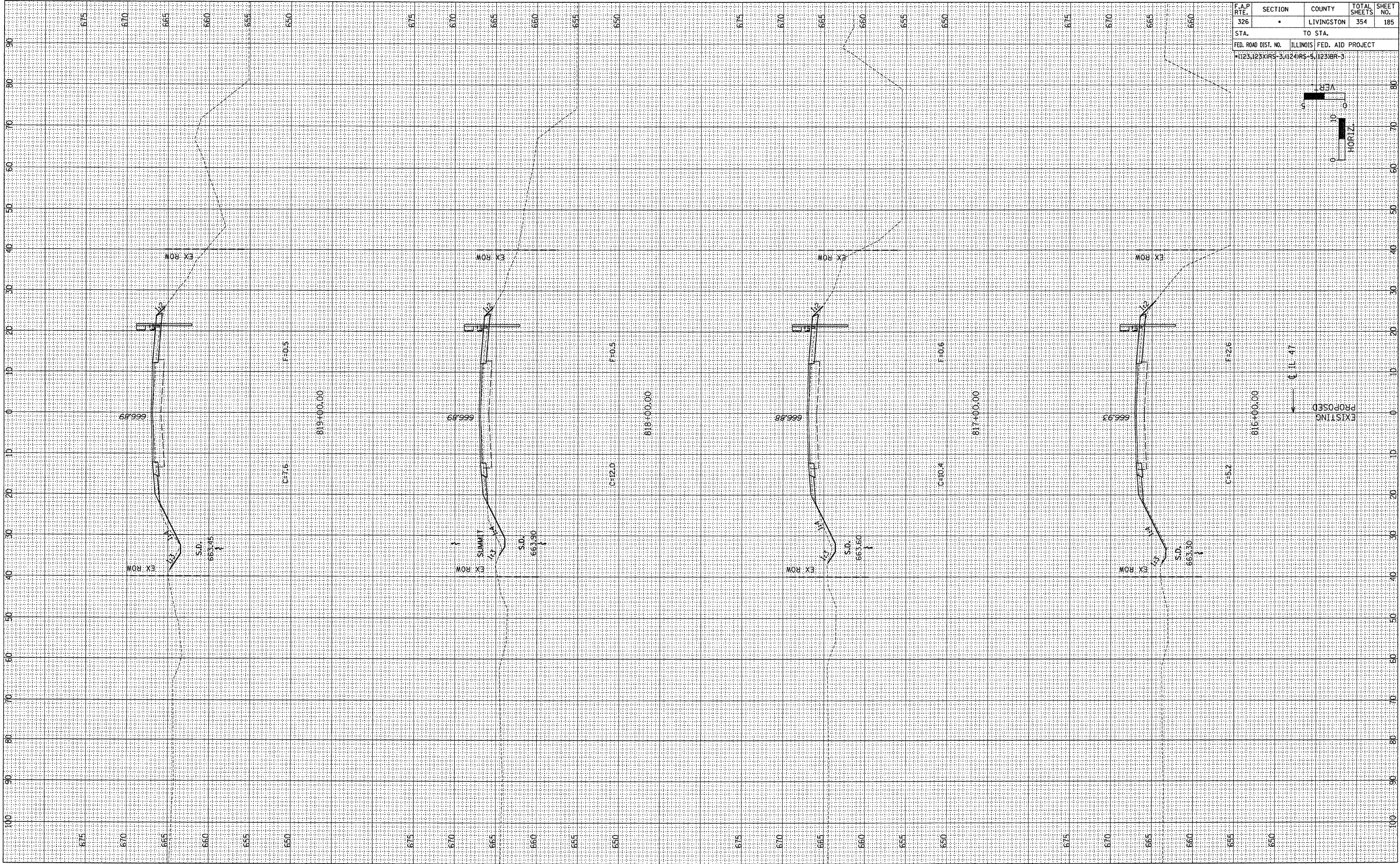
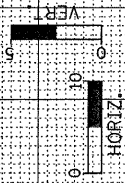
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FINAL SURVEY	DATE	BY
SURVEYED		
NOTED		
AREAS CHECKED		

ORIGINAL SURVEY	DATE	BY
CONVEYED		
NOTED		
AREAS CHECKED		

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
326	•	LIVINGSTON	354	185
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	
•(123,123XIRS-3,(124)RS-5,(123)BR-3				



PROPOSED

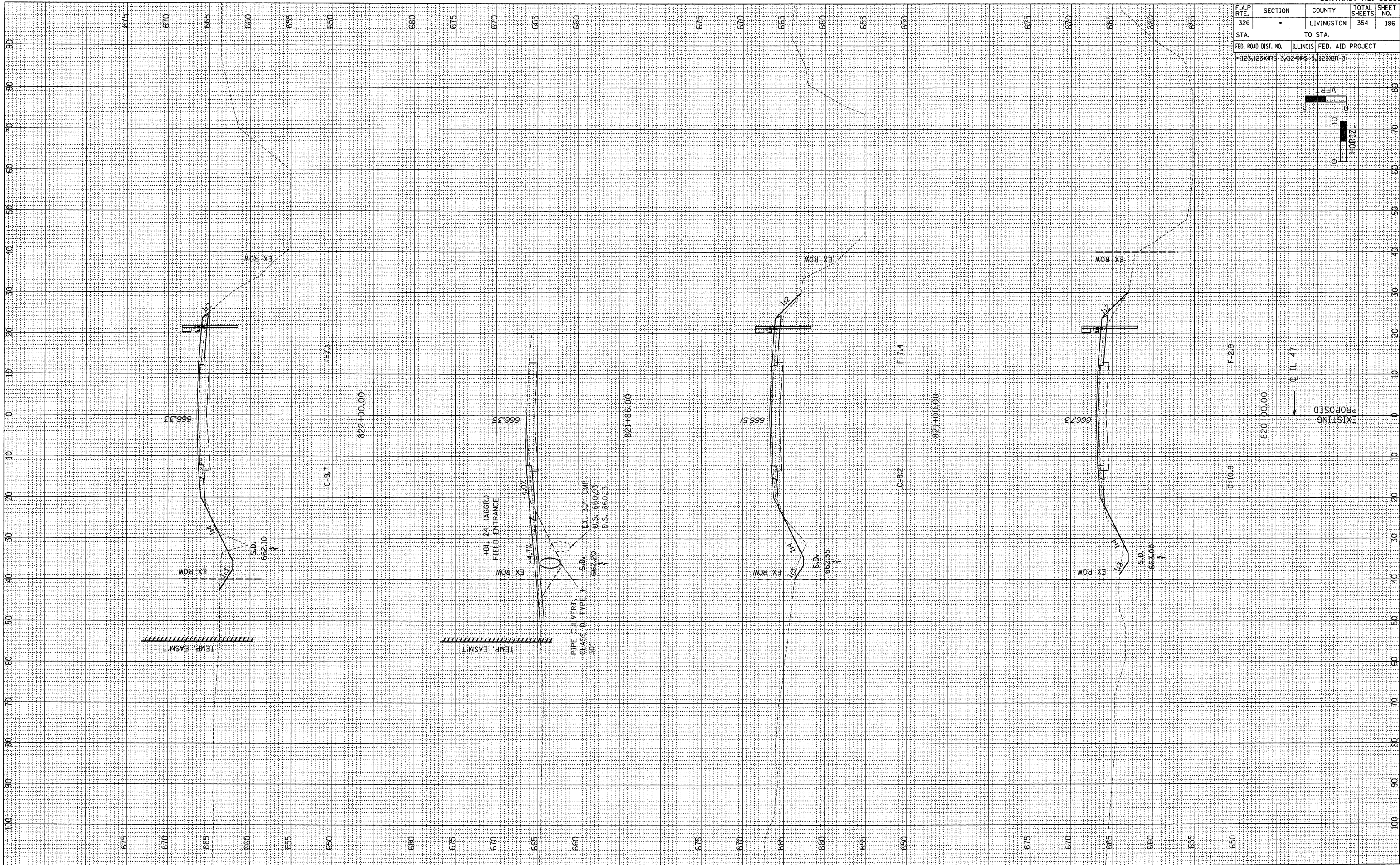
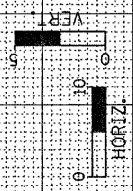
EXISTING

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

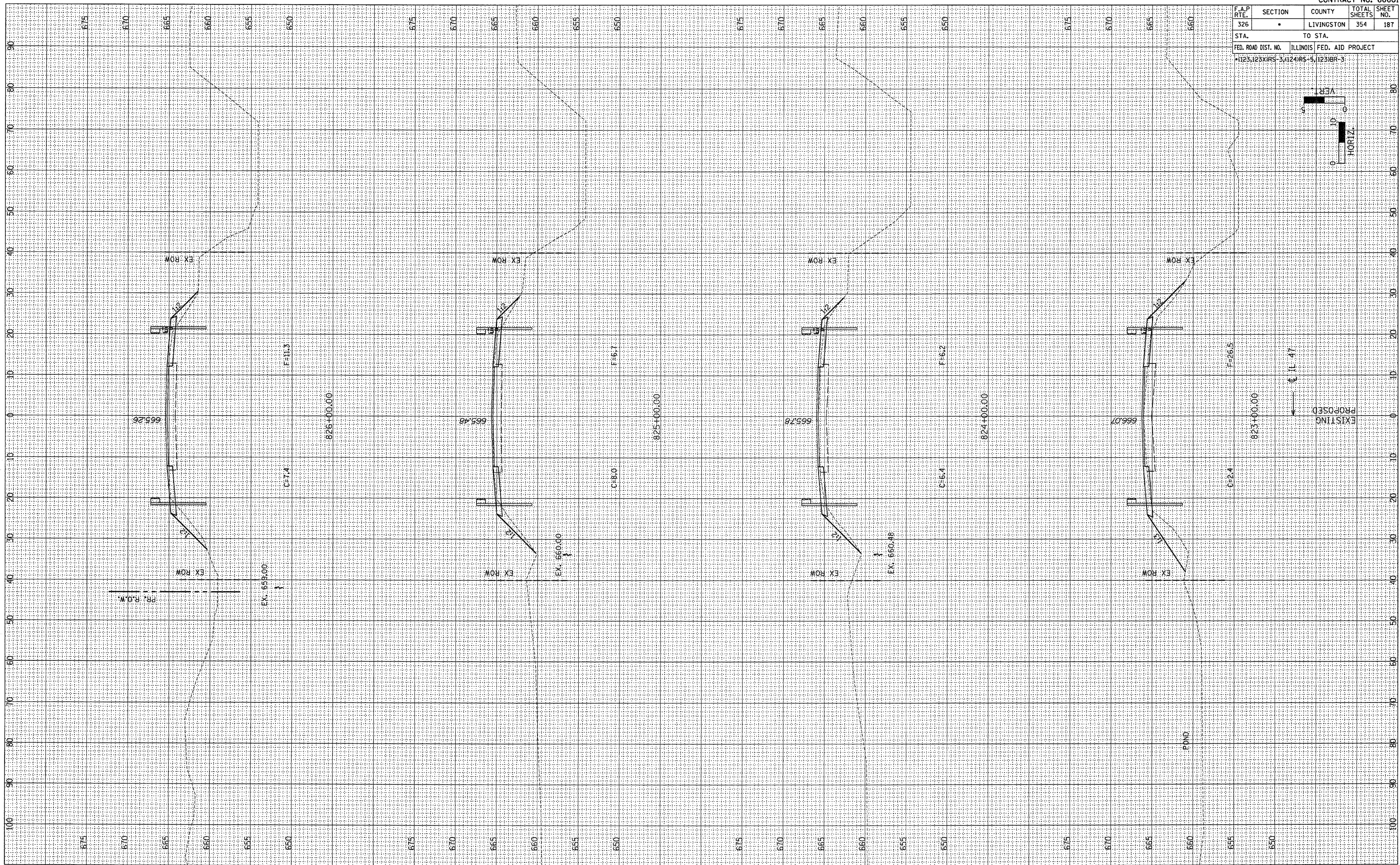
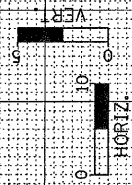
ORIGINAL SURVEY	DATE	BY
REVIEWED		
PLOTTED		
TEMPLATE		
NOTE BOOK		
AREAS CHECKED		
NO.		

CONTRACT NO. 66601				
F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
326	•	LIVINGSTON	354	186
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		
•11231123X1R5-3;11241R5-5;11231BR-3				



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

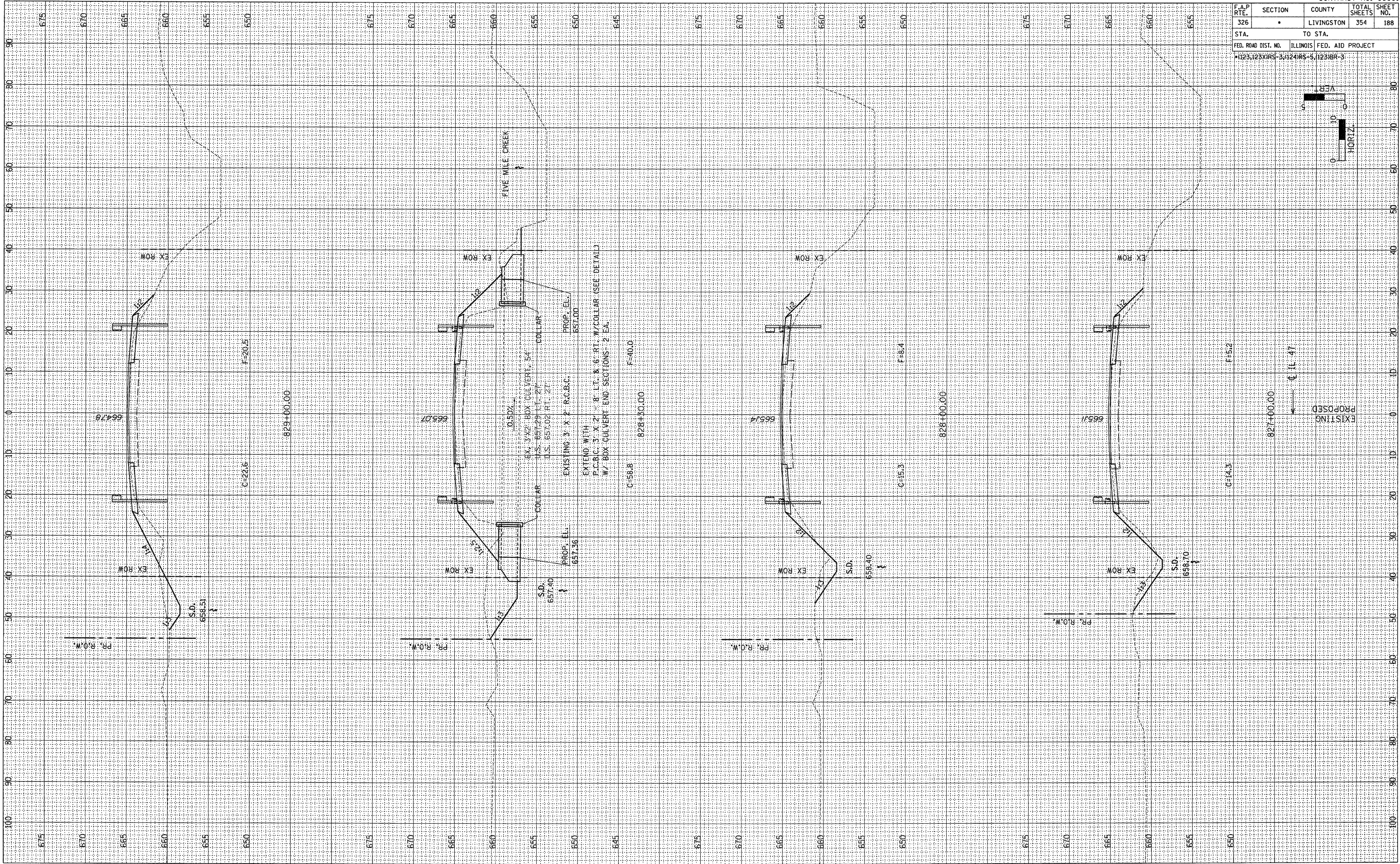
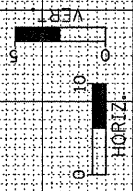
ORIGINAL SURVEY	DATE	BY
SURVEYED		
TEMPLATE		
NOTE BOOK		
AREAS CHECKED		
NO.		



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

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

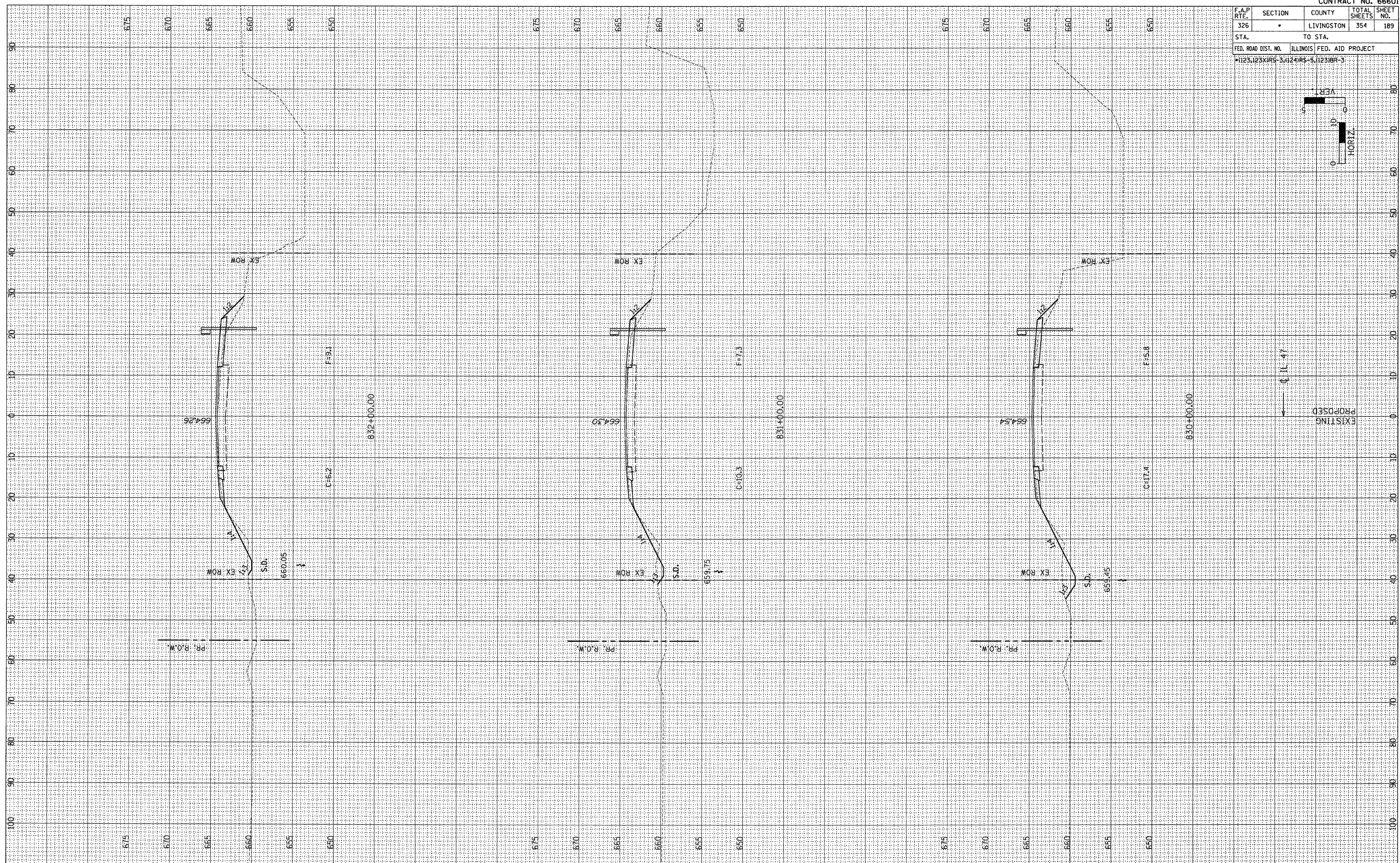
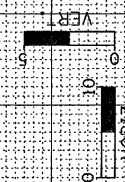
F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
326	•	LIVINGSTON	354	188
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	
•1123,123XIRS-3,1124IRS-5,1123IBR-3				



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

ORIGINAL SURVEY	BY	DATE
DESIGNED		
PLOTTED		
TEMPLATE		
NOTE BOOK		
AREAS		
AREAS CHECKED		
NO.		

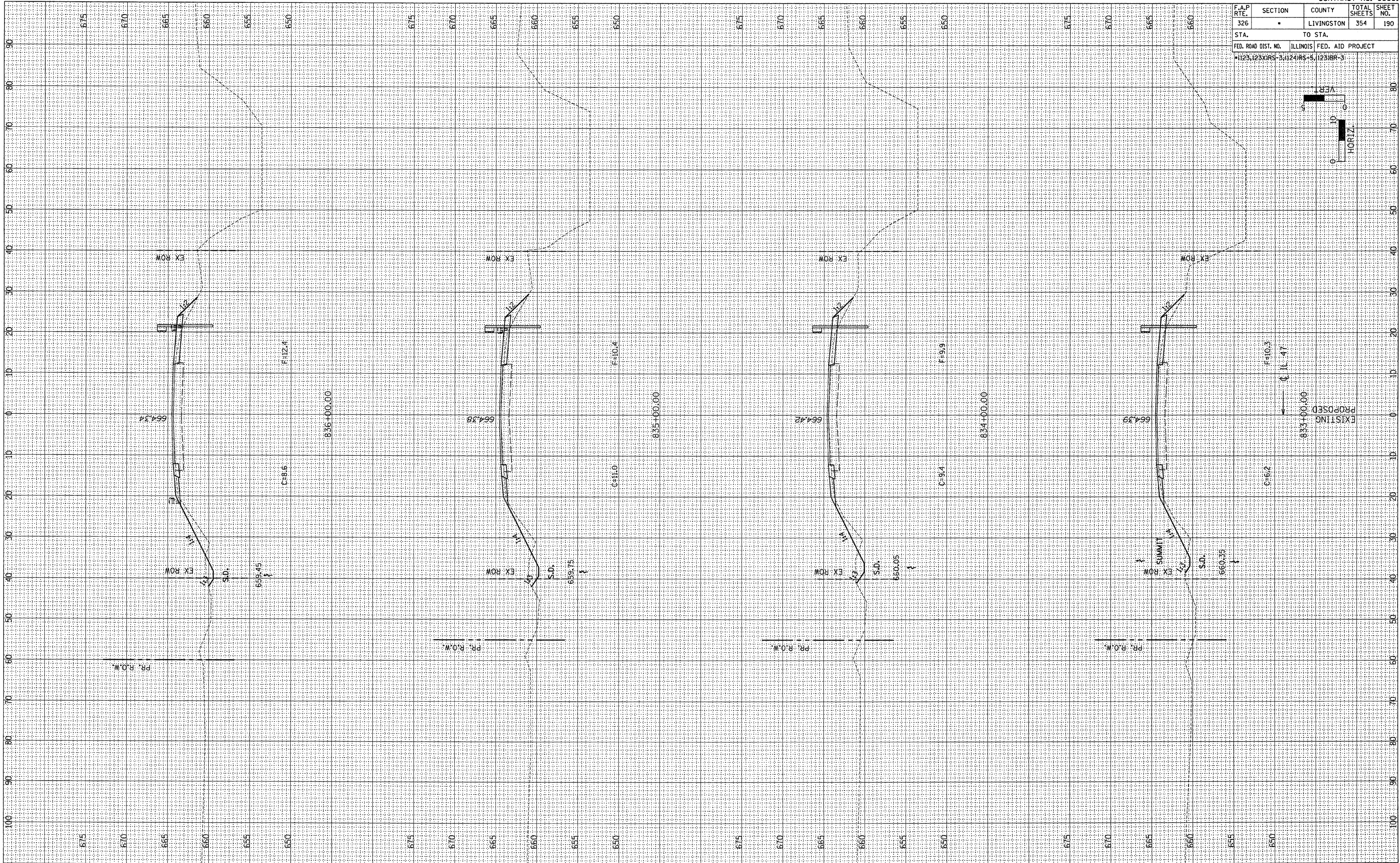
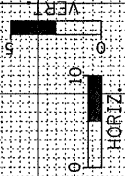
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
326	•	LIVINGSTON	354	189
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		
• 123 XRS-3	• 124 RS-5	• 123 BR-3		



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

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

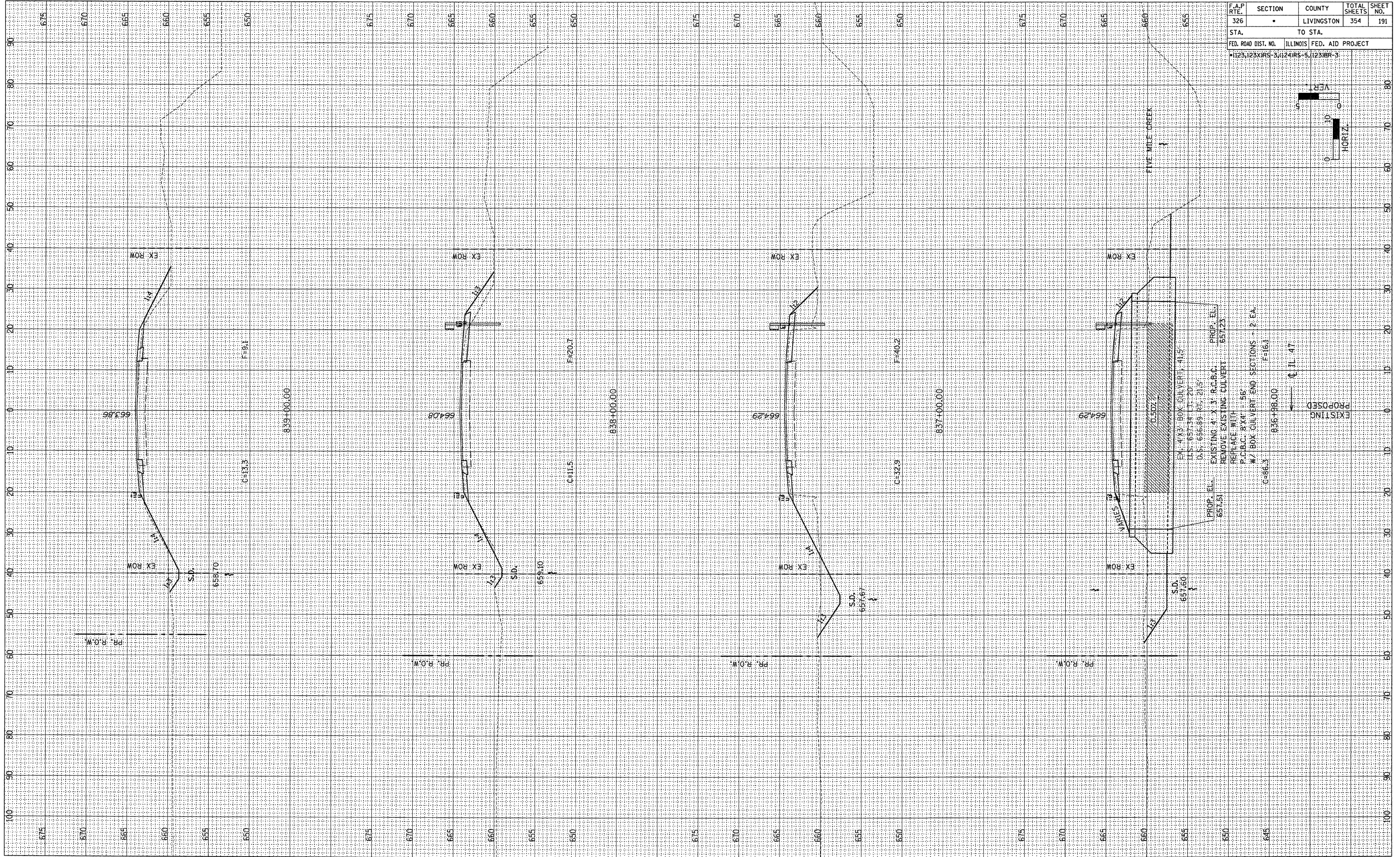
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
326	•	LIVINGSTON	354	190
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		
•1123,123XRS-3,1124RS-5,1123JBR-3				



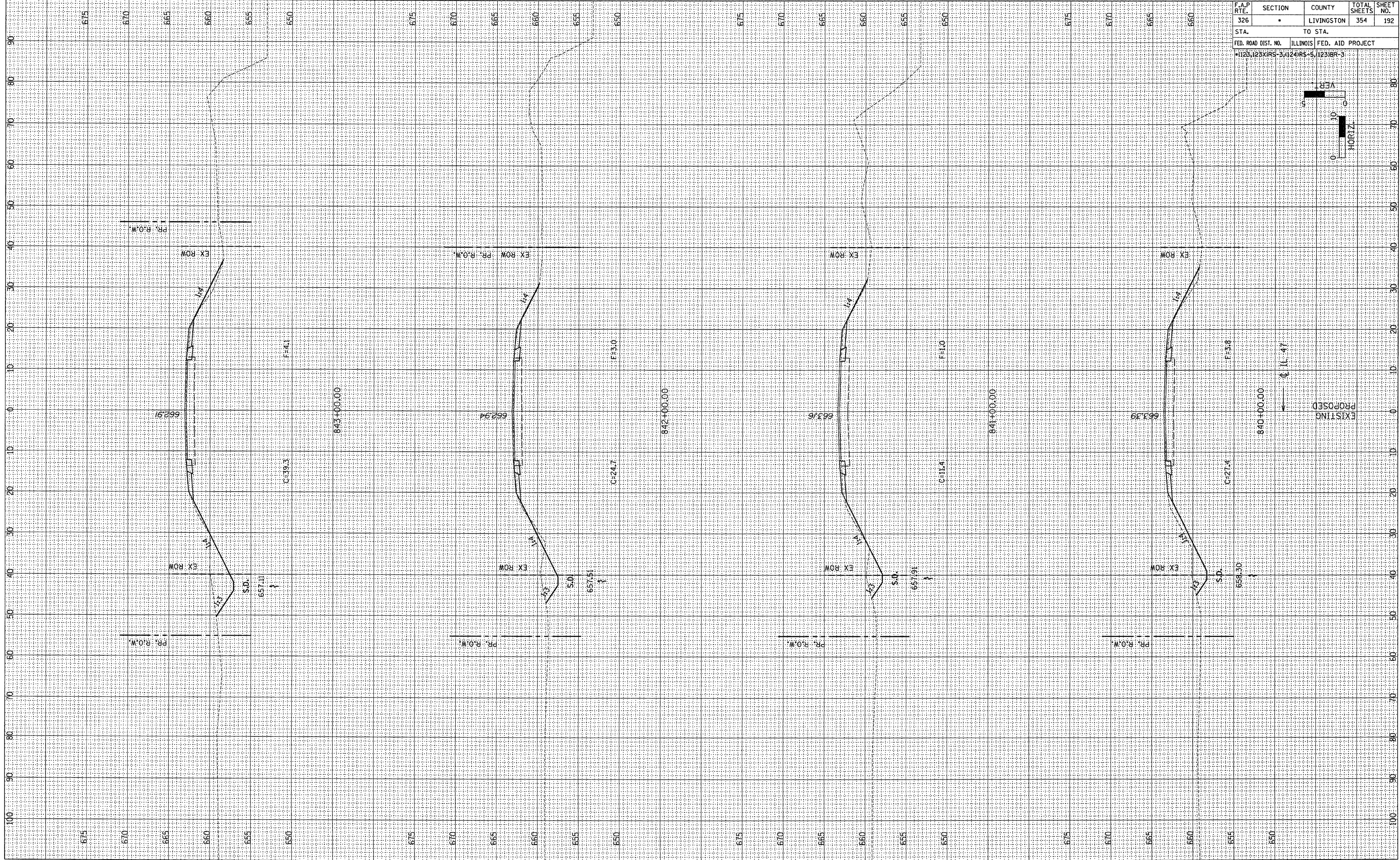
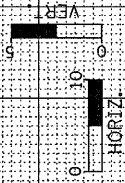
FINAL SURVEY	DATE	BY
NOTED		
PLOTTED		
TEMPLATE		
AREAS		
CHECKED		

ORIGINAL SURVEY	DATE	BY
NOTED		
PLOTTED		
TEMPLATE		
AREAS		
CHECKED		

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
326	*	LIVINGSTON	354	191
STA. TO STA.				
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		
*123,123XRS-3,(124)RS-5,123IR-3				



F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
326	*	LIVINGSTON	354	192
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	
1123, 123XRS-3, 124RS-5, 123BR-3				



EXISTING
PROPOSED

840+00.00

T=3.8

S.D.

658.30

C=27.4

EX ROW

1.4

663.39

PR. R.O.W.

S.D.

657.91

C=11.4

T=1.0

841+00.00

EX ROW

1.4

663.6

PR. R.O.W.

S.D.

657.51

C=24.7

T=3.0

842+00.00

EX ROW

1.4

662.94

PR. R.O.W.

S.D.

657.11

C=29.3

T=4.1

843+00.00

EX ROW

1.4

662.91

PR. R.O.W.

S.D.

657.11

C=29.3

T=4.1

843+00.00

EX ROW

1.4

662.91

PR. R.O.W.

S.D.

657.11

C=29.3

T=4.1

843+00.00

EX ROW

1.4

662.91

PR. R.O.W.

S.D.

657.11

C=29.3

T=4.1

843+00.00

EX ROW

1.4

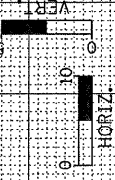
662.91

PR. R.O.W.

FINAL SURVEY	BY	DATE
REVIEWED		
NOTED		
AREAS CHECKED		

ORIGINAL SURVEY	BY	DATE
REVIEWED		
NOTED		
AREAS CHECKED		

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
326	•	LIVINGSTON	354	194
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	
•1123,123X1R5-3;11241R5-5;11231R-3				



EXISTING
PROPOSED

847+00.00
+0.47

C=66.3
F=1.5

S.D.
655.50

EX ROW
I-3
I-4

PR. R.O.W.

848+00.00
F=0.9

C=54.5

S.D.
658.80

EX ROW
I-3
I-4

PR. R.O.W.

849+00.00
F=0.5

C=50.7

S.D.
659.10

EX ROW
I-3
I-4

PR. R.O.W.

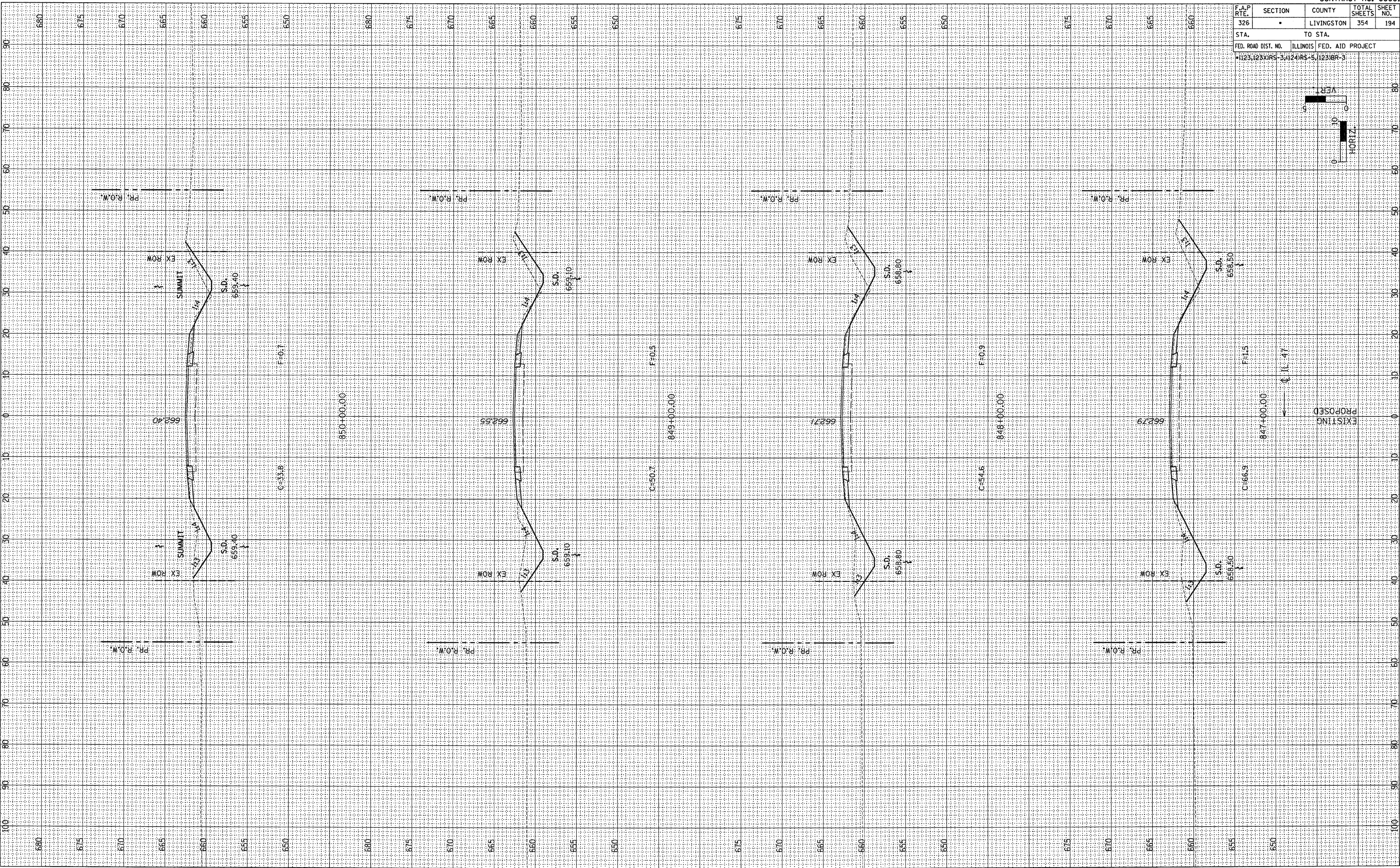
850+00.00
F=0.7

C=33.8

S.D.
659.40

EX ROW
I-3
I-4

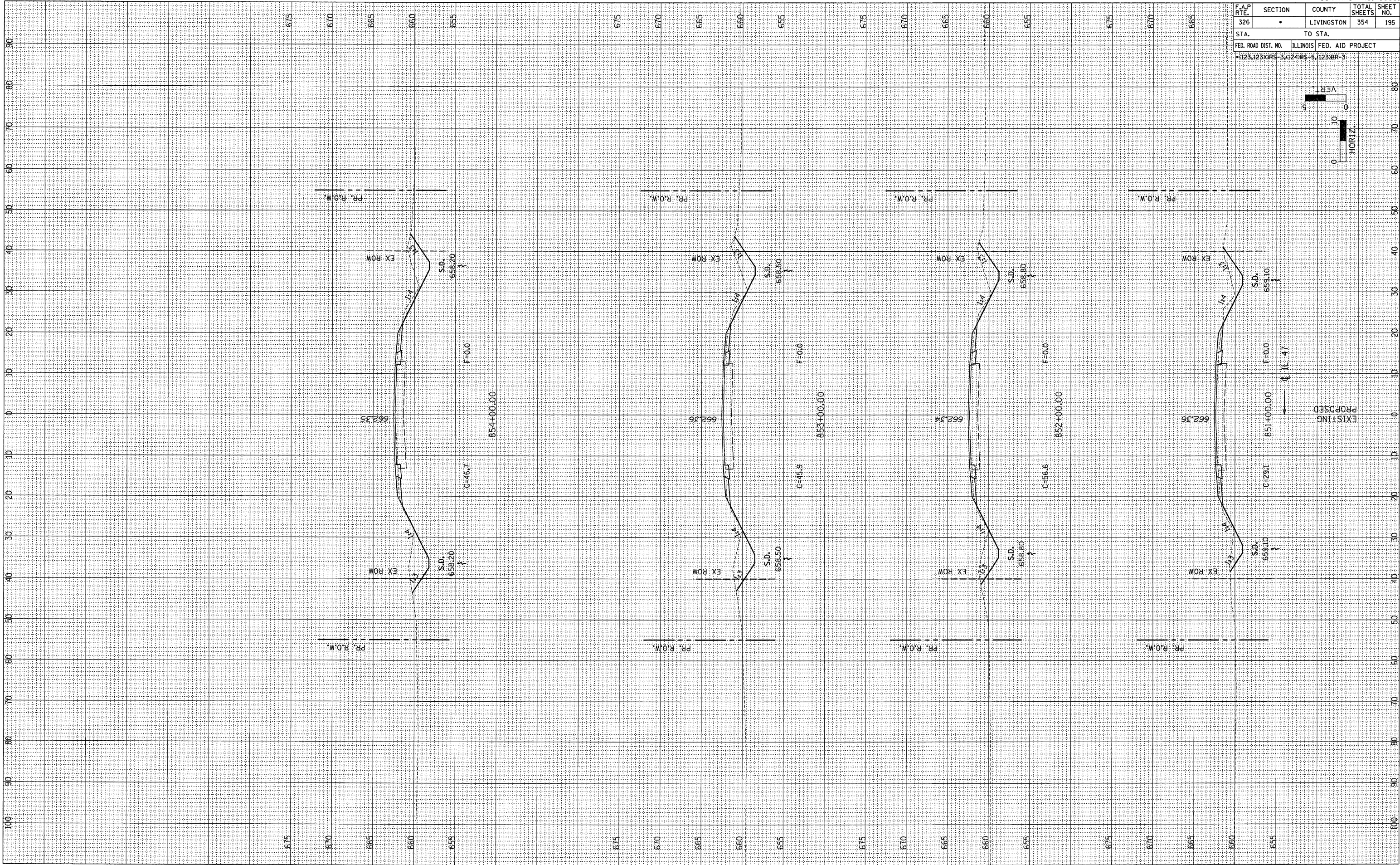
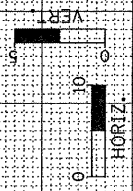
PR. R.O.W.



FINAL SURVEY	BY	DATE
DESIGNED		
PLOTTED		
TEMPLATE		
NOTE BOOK		
AREAS		
CHECKED		

ORIGINAL SURVEY	BY	DATE
DESIGNED		
PLOTTED		
TEMPLATE		
NOTE BOOK		
AREAS		
CHECKED		

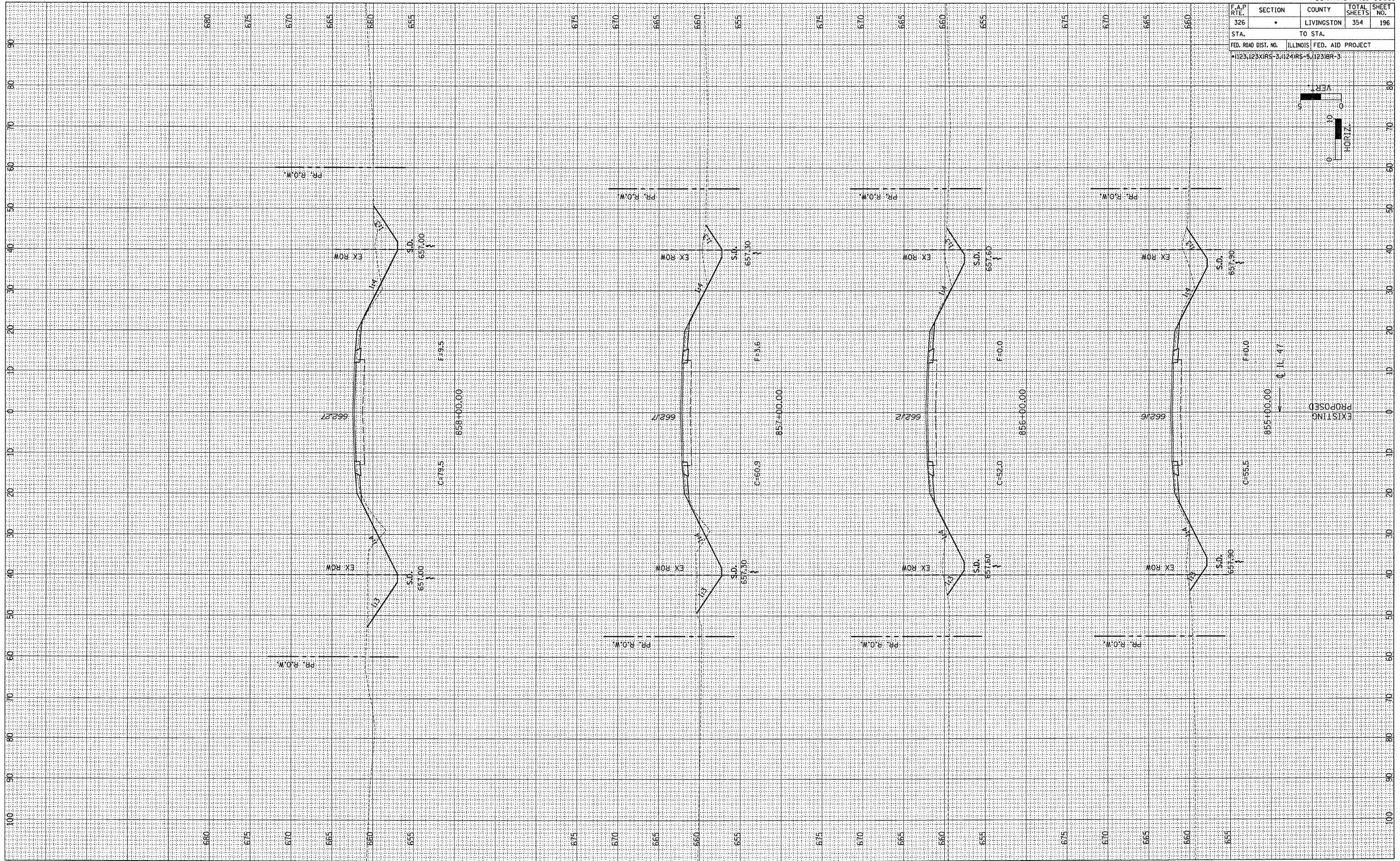
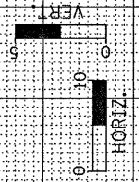
F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
326	•	LIVINGSTON	354	195
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	



EXISTING
PROPOSED

FINAL SURVEY	BY	DATE
SURVEYED		
PLOTTED		
NOTE BOOK		
AREAS CHECKED		

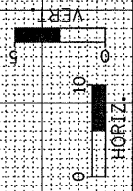
ORIGINAL SURVEY	BY	DATE
SURVEYED		
PLOTTED		
NOTE BOOK		
AREAS CHECKED		



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

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

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
326	•	LIVINGSTON	354	198
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	



EXISTING PROPOSED

CL 47

860+00.00

F+9.3

S.D. 558.10

PR. R.O.W.

EX ROW

662.42

EX ROW

PR. R.O.W.

861+00.00

F+18.8

S.D. 556.63

PR. R.O.W.

EX ROW

662.38

EX ROW

PR. R.O.W.

862+00.00

F+11.2

S.D. 557.17

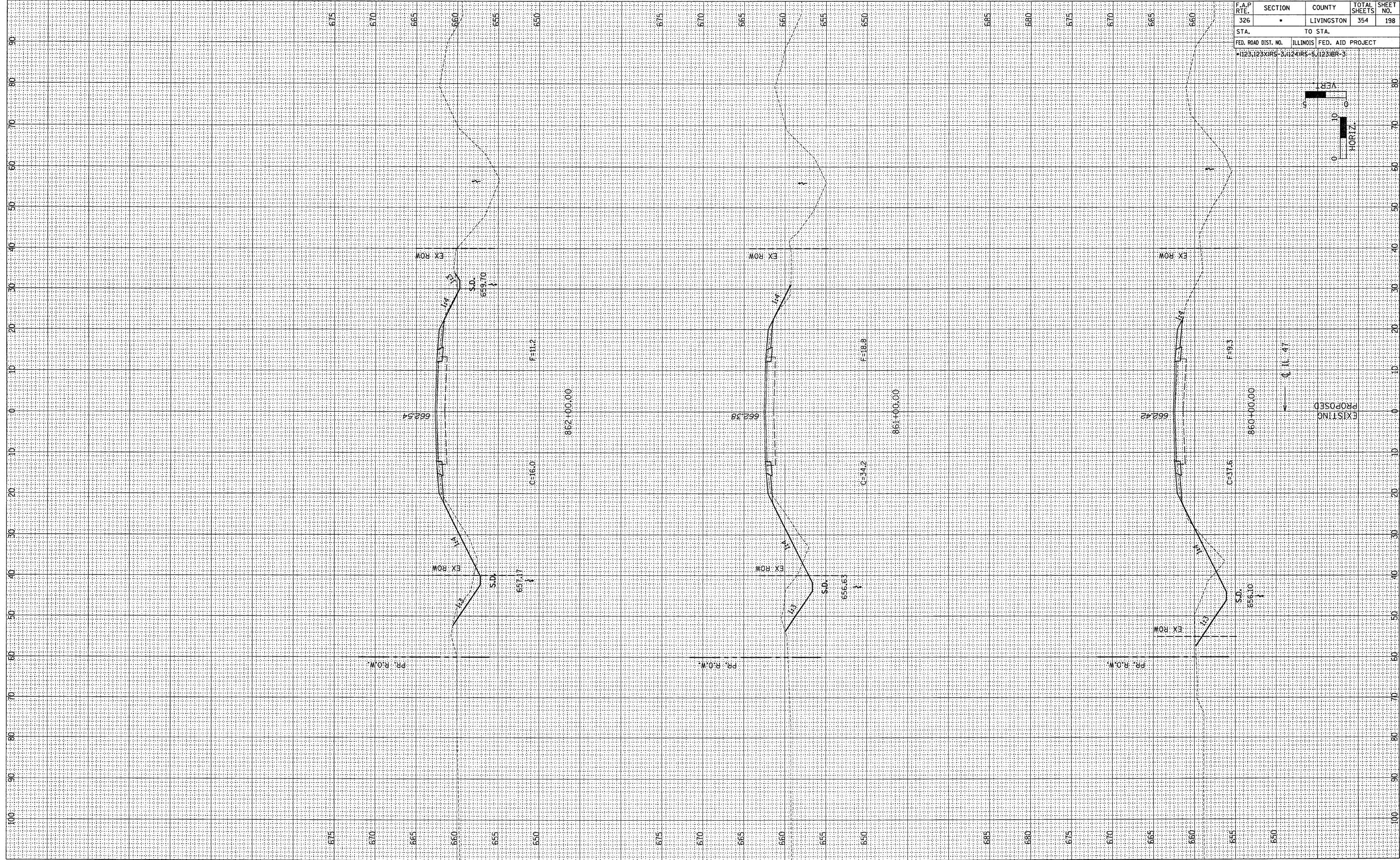
PR. R.O.W.

EX ROW

662.54

EX ROW

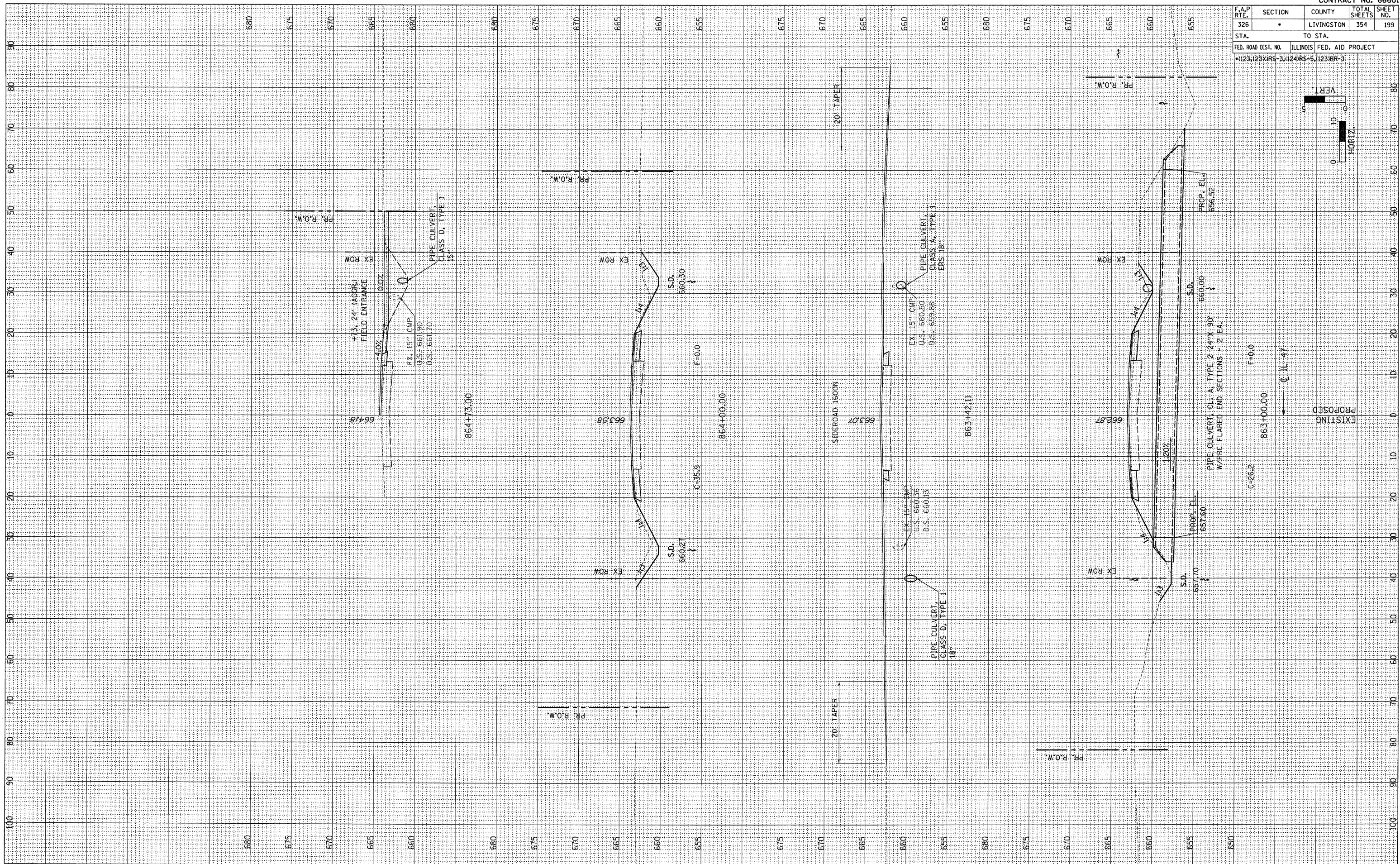
PR. R.O.W.



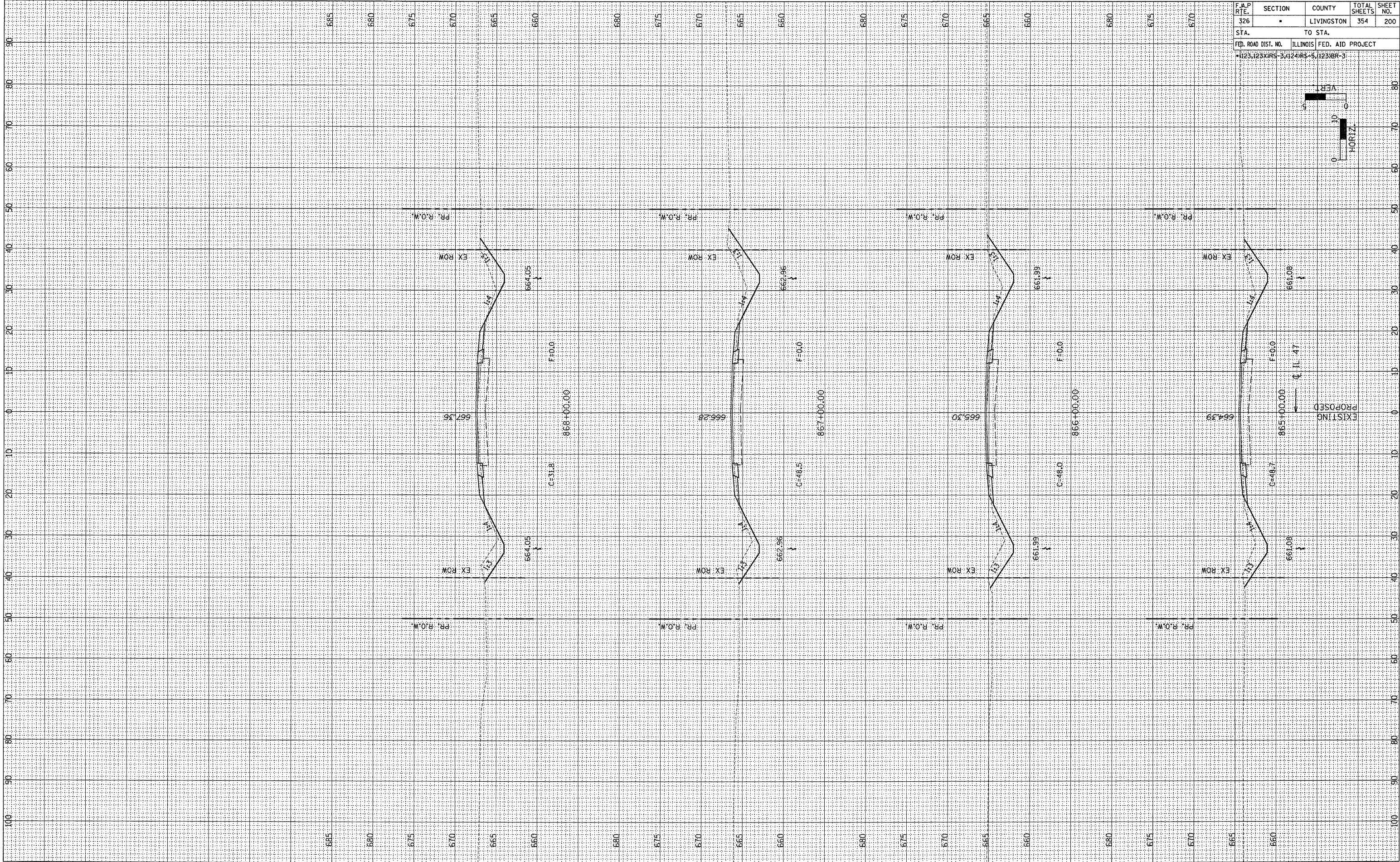
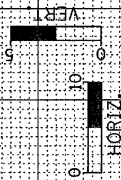
FINAL SURVEY	DATE	BY
REVIEWED		
NOTED		
AREAS CHECKED		

ORIGINAL SURVEY	DATE	BY
REVIEWED		
NOTED		
AREAS CHECKED		

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
326	•	LIVINGSTON	354	199
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	
• 1123123XRS-3; 124RS-5; 123BR-3				



F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
326	*	LIVINGSTON	354	200
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	



EXISTING
PROPOSED

Q IL 47

FINAL SURVEY	DATE	BY
SUBMITTED		
PLOTTED		
NOTE BOOK		
AREAS CHECKED		

ORIGINAL SURVEY	DATE	BY
SUBMITTED		
PLOTTED		
NOTE BOOK		
AREAS CHECKED		