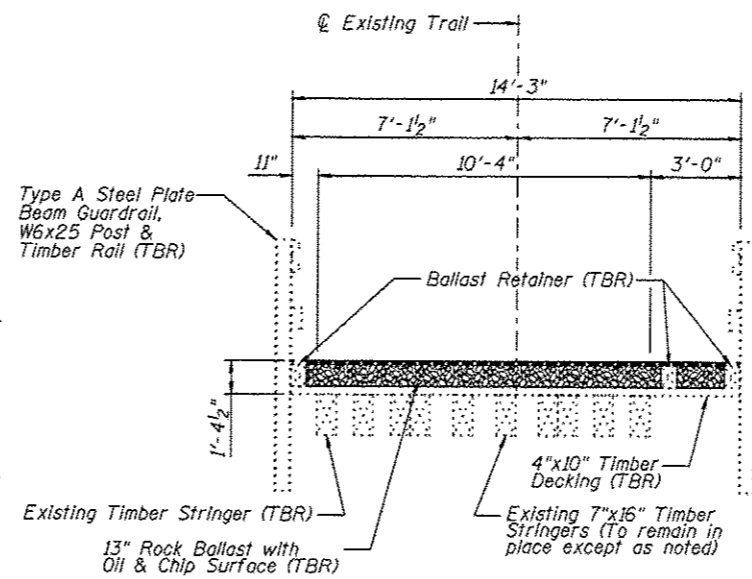
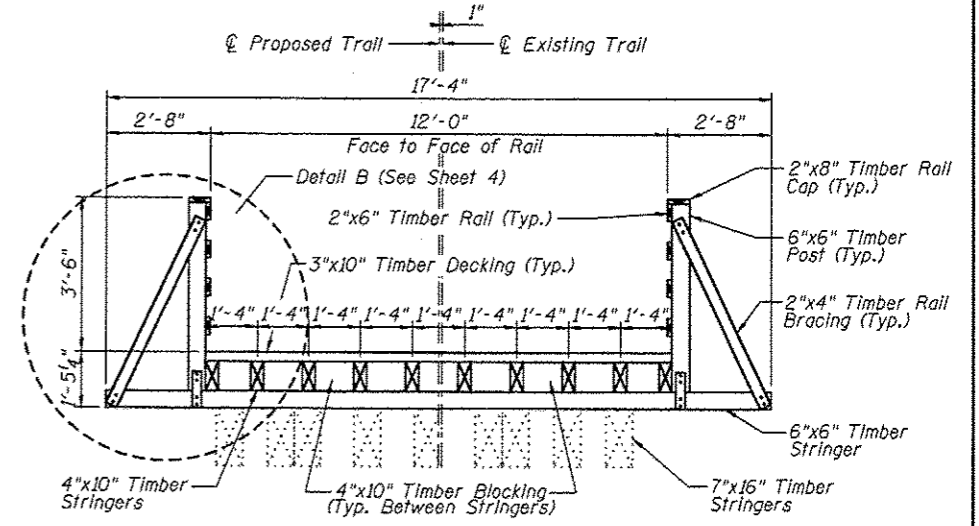


STONE RIPRAP DETAIL

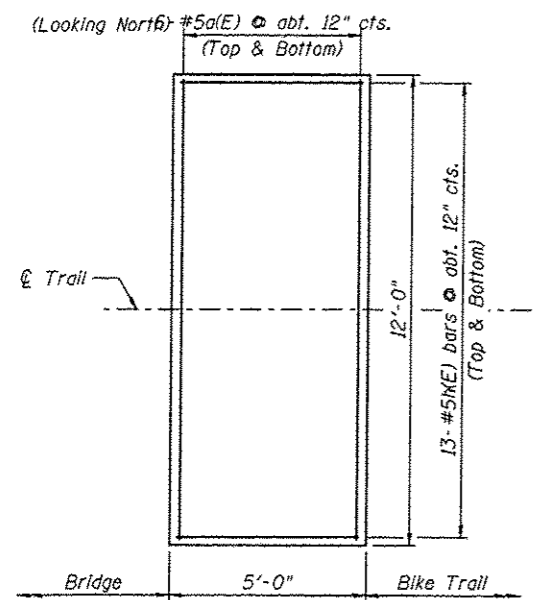
BRIDGE APPROACH PAVEMENT (SPECIAL) DETAIL



EXISTING CROSS SECTION
(Looking North)

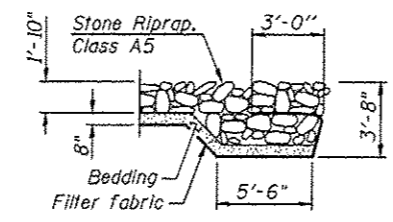


PROPOSED CROSS SECTION

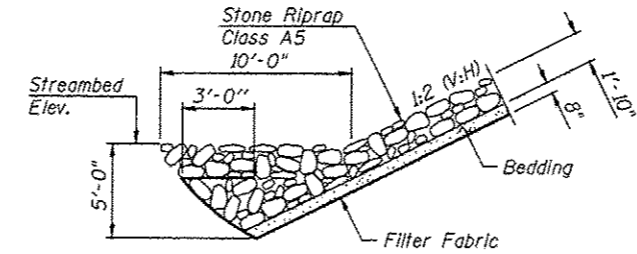


BRIDGE APPROACH PAVEMENT (SPECIAL) PLAN

Note: 276 Lbs. of epoxy coated reinforcement bars



SECTION A-A



SECTION B-B

BRIDGE APPROACH
BILL OF MATERIAL

Item	Unit	Quantity
Porous Granular Embankment, Special	Cu. Yd.	17

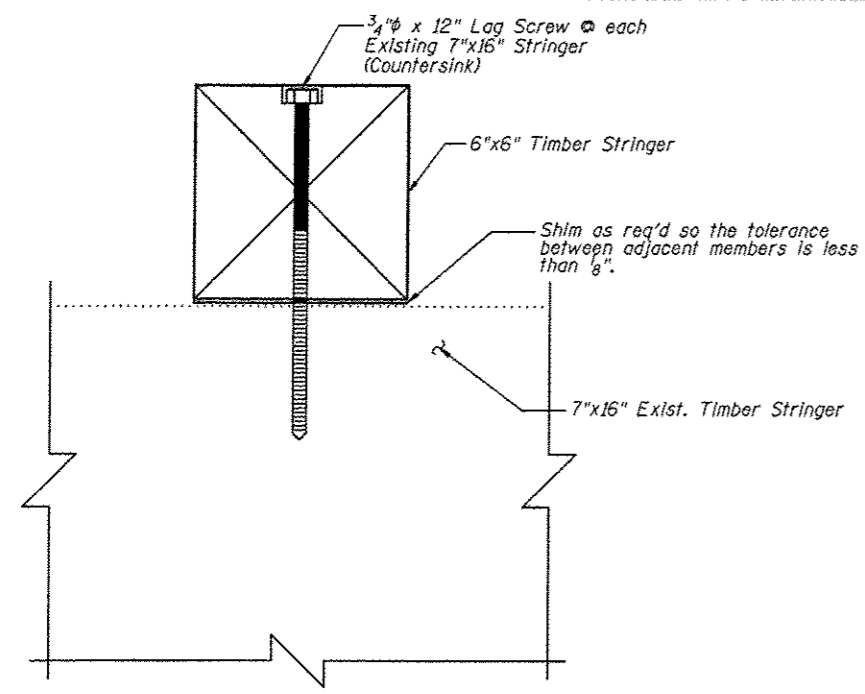
Note:
All dimensions are approximate.
For Treated Timber quantity, see Sheet No. 4
All new timber members shown shall be included in the pay item Treated Timber.

All items determined by the Engineer to have salvageable value, including the Type A Steel Plate Beam Guardrail, W6x25 Posts, 3"x8" Timber Rail and 7"x16" Timber Stringers in good condition, shall be transported and stored at locations and in a manner approved by the Engineer.

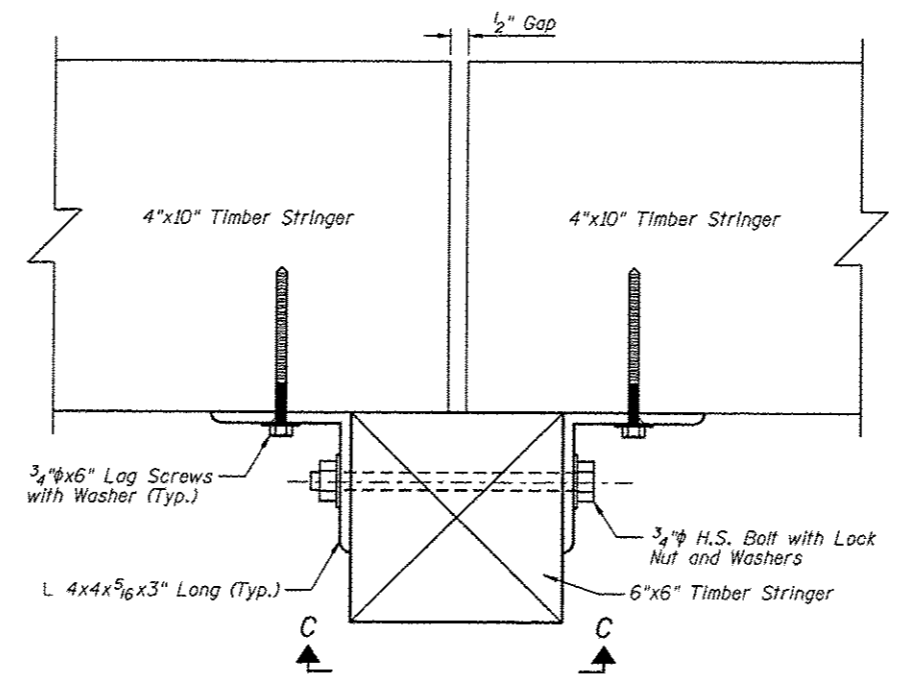
<p>Juneau Associates, Inc. P.C. CONSULTING ENGINEERS AND LAND SURVEYORS 2100 State Street, P.O. Box 1225 Juneau, Alaska 99801 Phone: (907) 586-1100 Fax: (907) 586-1101</p>		<p>GLEN CARBON HERITAGE BIKE TRAIL OVER JUDY BRANCH MADISON COUNTY STATION 198+54.27 STRUCTURE NO. 6</p>									
<p>REVISIONS</p> <table border="1"> <thead> <tr> <th>NO.</th> <th>DATE</th> <th>BY</th> <th>REMARKS</th> </tr> </thead> <tbody> <tr> <td></td> <td></td> <td></td> <td></td> </tr> </tbody> </table>		NO.	DATE	BY	REMARKS					<p>SCALE: NOT TO SCALE, FOLLOW DIMENSIONS</p>	
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<p>DWN. BY: EER DATE: 10/18/12</p>		<p>201</p>									
<p>CHK'D: WWH DATE: 10/18/12</p>		<p>JOB NO. E064403 DGN. NO. OF 810 SHEETS</p>									

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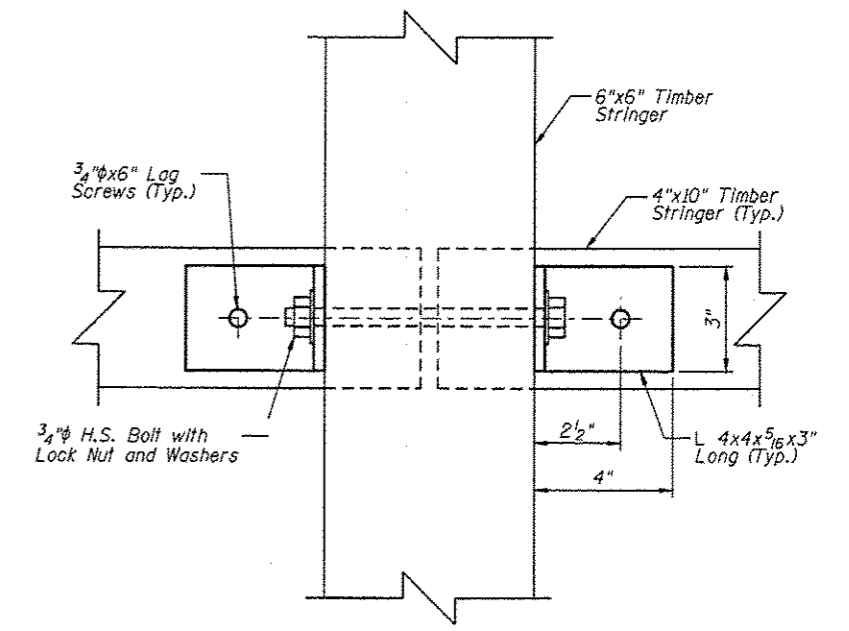
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	06-00016-00-BT	MADISON	310	202
FED. ROAD DIST. NO.	ILLINOIS CONTRACT NO.		97433	



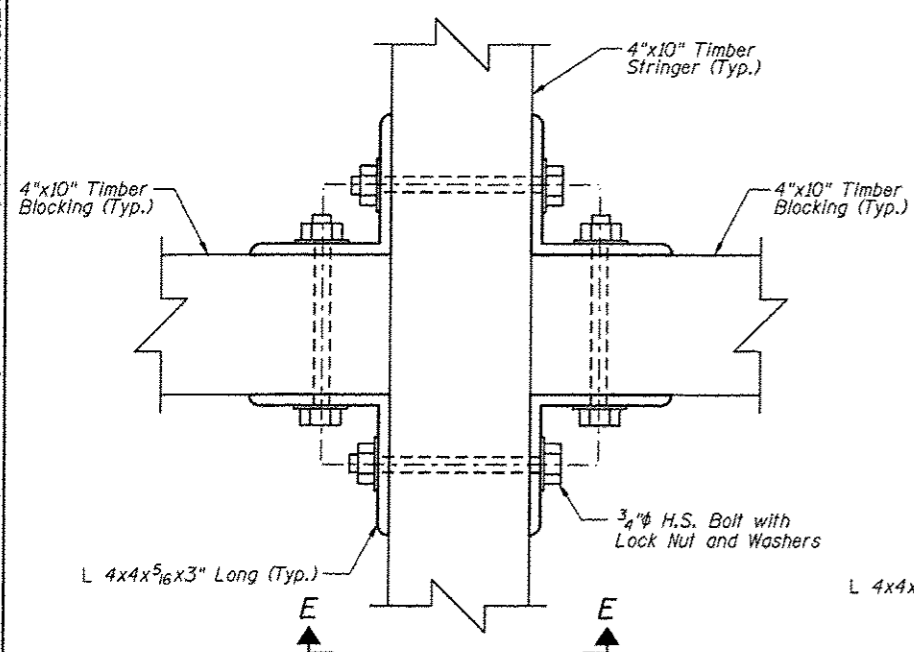
SECTION A-A



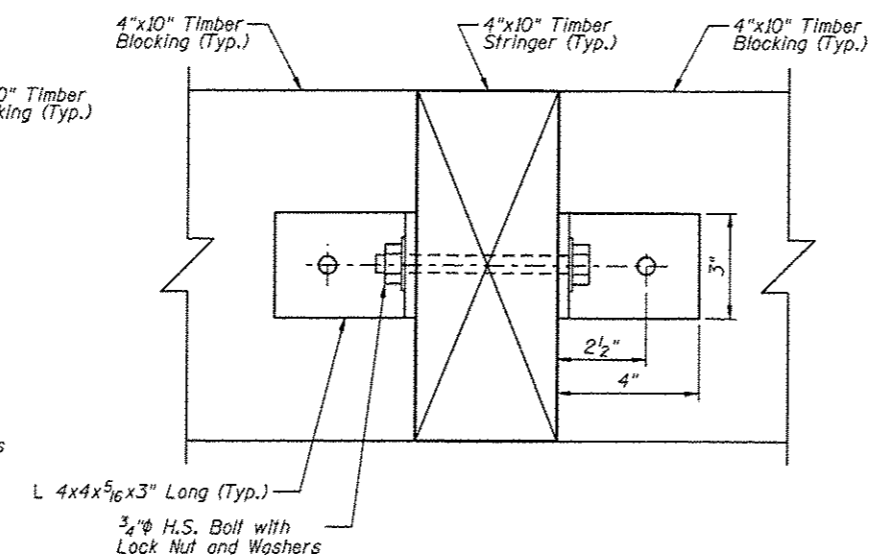
SECTION B-B
(Section G-G Similar)



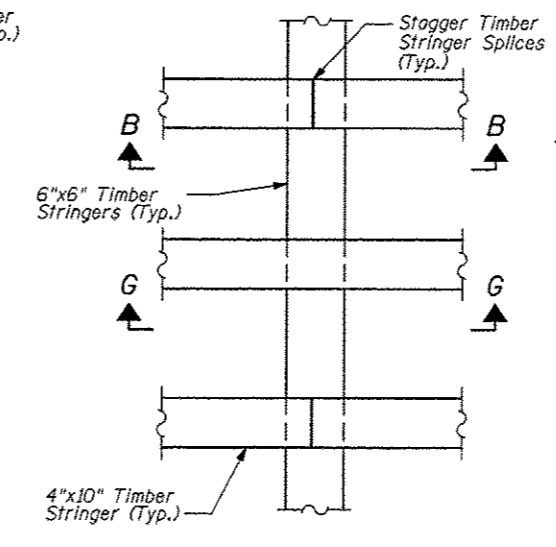
SECTION C-C



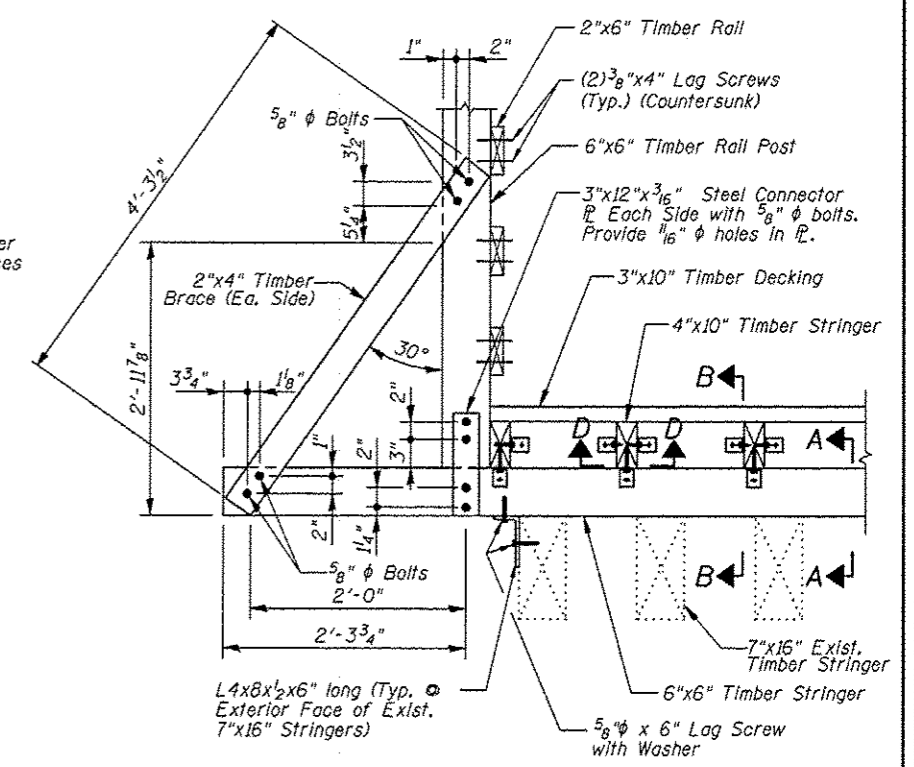
SECTION D-D



SECTION E-E



DETAIL A



DETAIL B

SUPERSTRUCTURE
BILL OF MATERIAL

Item	Unit	Quantity
Treated Timber	F.B.M.	6620

Note:

All new timber members shown shall be included in the pay item Treated Timber.

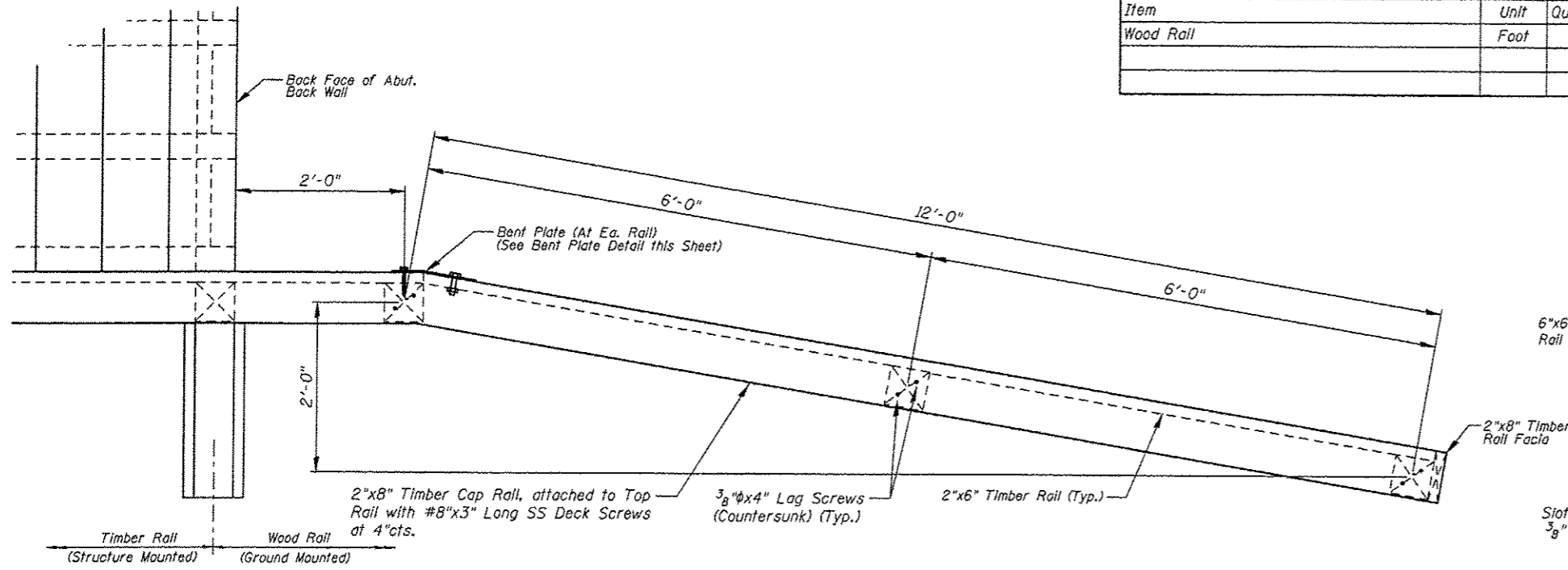
<p>Juneau Associates, Inc. P.C. CONSULTING ENGINEERS AND LAND SURVEYORS 2100 State Street, P.O. Box 1321 Spartanburg, SC 29404 Phone: 803/537-1400 Fax: 803/537-0900</p>		<p>GLEN CARBON HERITAGE BIKE TRAIL OVER JUDY BRANCH MADISON COUNTY STATION 198+54.27 STRUCTURE NO. 6</p>									
<p>REVISIONS</p> <table border="1"> <thead> <tr> <th>NO.</th> <th>DATE</th> <th>BY</th> <th>REMARKS</th> </tr> </thead> <tbody> <tr> <td> </td> <td> </td> <td> </td> <td> </td> </tr> </tbody> </table>		NO.	DATE	BY	REMARKS					<p>SCALE: NOT TO SCALE, FOLLOW DIMENSIONS</p>	
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<p>DWN. BY: EER DATE: 10/18/12</p>		<p>CHKD: WWH DATE: 10/18/12</p>									

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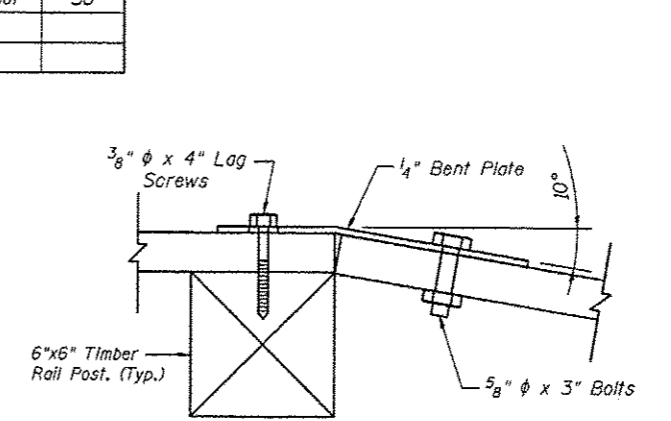
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	06-00016-00-BT	MADISON	310	203
FED. ROAD DIST. NO.	ILLINOIS	CONTRACT NO. 97433		

WOOD RAIL BILL OF MATERIAL

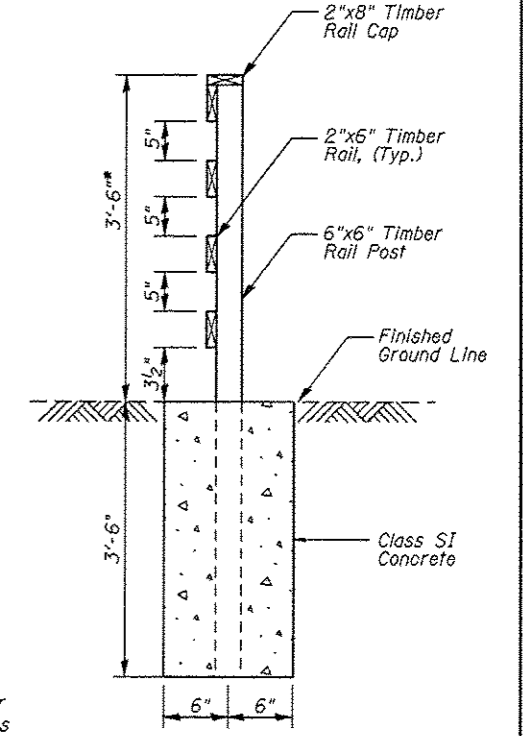
Item	Unit	Quantity
Wood Rail	Foot	58



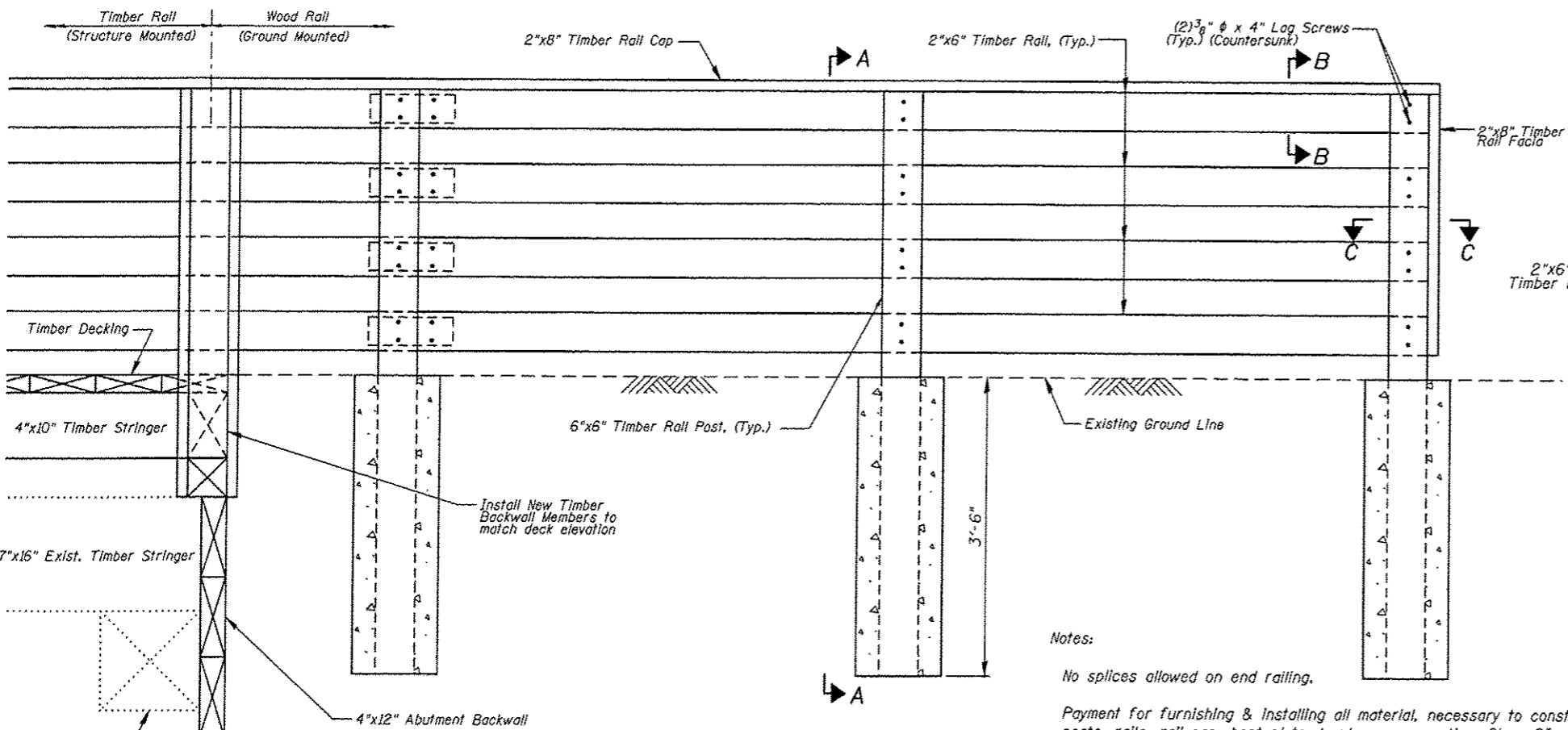
PLAN



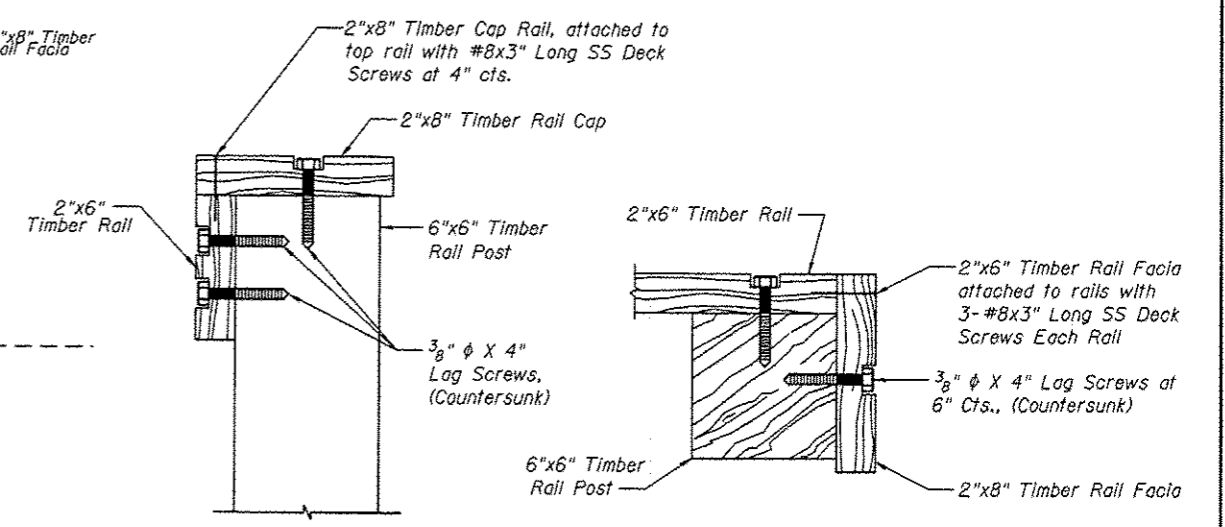
BENT PLATE



SECTION A-A



ELEVATION



SECTION B-B

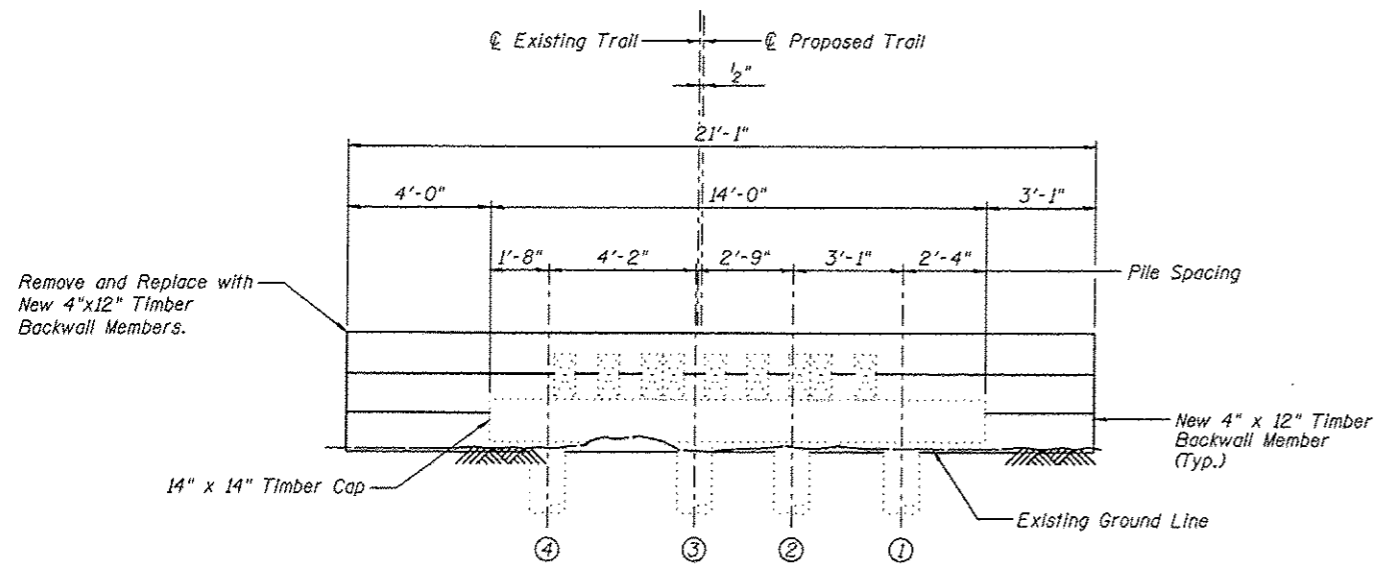
SECTION C-C

Notes:
 No splices allowed on end railing.
 Payment for furnishing & installing all material, necessary to construct the wood rail, including all posts, rails, rail cap, bent plate, hardware, excavation, Class SI concrete and all other appurtenances and incidental work, complete in place, will be considered completely covered by the contract unit price per foot for Wood Rail.

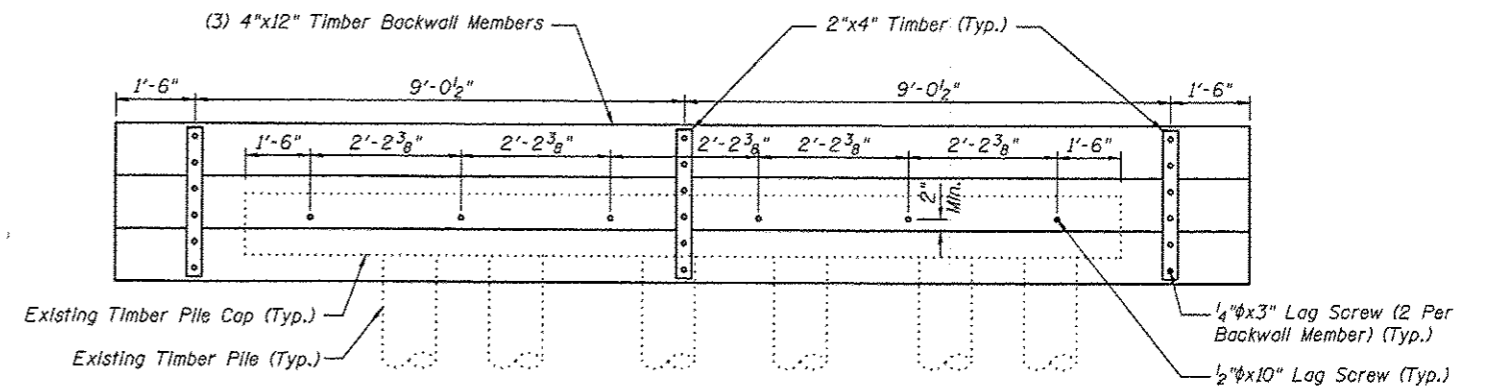
* Top of top timber rail shall be installed a minimum of 3'-6" above the finished groundline. Adjust post length according in field.

WOOD RAIL DETAILS																								
<p>Juneau Associates, Inc. P.C. CONSULTING ENGINEERS AND LAND SURVEYORS 2300 State Street, P.O. Box 1125 Seattle, WA 98101-1125 Phone: (206) 461-1400 Fax: (206) 461-0541</p>		<p>GLEN CARBON HERITAGE BIKE TRAIL OVER JUDY BRANCH MADISON COUNTY STATION 198+34.27 STRUCTURE NO. 6</p>																						
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SOUTH ABUTMENT
(Looking South)



SOUTH ABUTMENT
(Looking North)

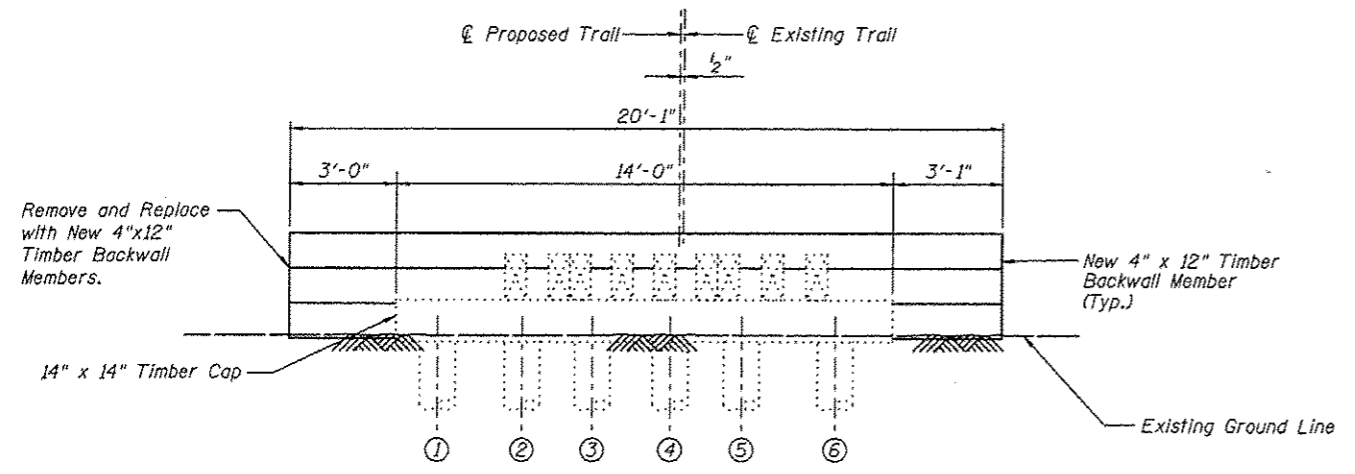
SOUTH ABUTMENT
BILL OF MATERIAL

Item	Unit	Quantity
Treated Timber	F.B.M.	259

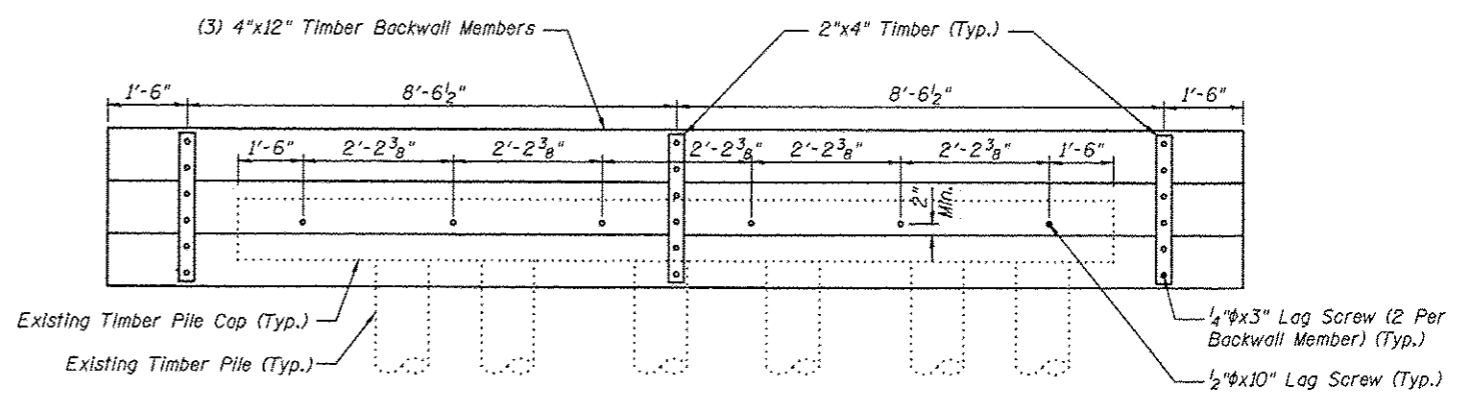
Note:
All dimensions are approximate.
All new timber members shown shall be included in the pay item Treated Timber.

<p>Juneau Associates, Inc. P.C. CONSULTING ENGINEERS AND LAND SURVEYORS 2108 State Street, P.O. Box 10779 Burlington, Illinois 61714-0779 Phone: (815) 837-1100 Fax: (815) 837-5451</p>		<p>GLEN CARBON HERITAGE BIKE TRAIL OVER JUDY BRANCH MADISON COUNTY STATION 198+54.27 STRUCTURE NO. 6</p>									
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NORTH ABUTMENT
(Looking North)



NORTH ABUTMENT
(Looking South)

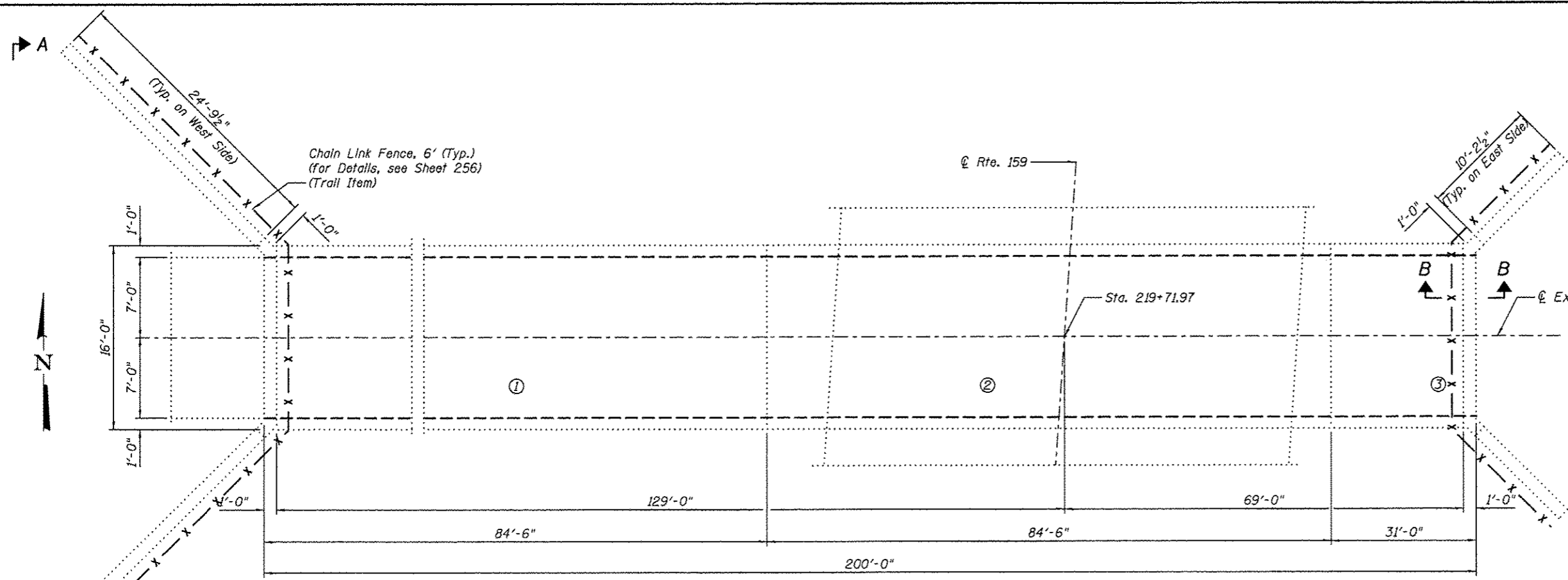
**NORTH ABUTMENT
BILL OF MATERIAL**

Item	Unit	Quantity
Treated Timber	F.B.M.	248

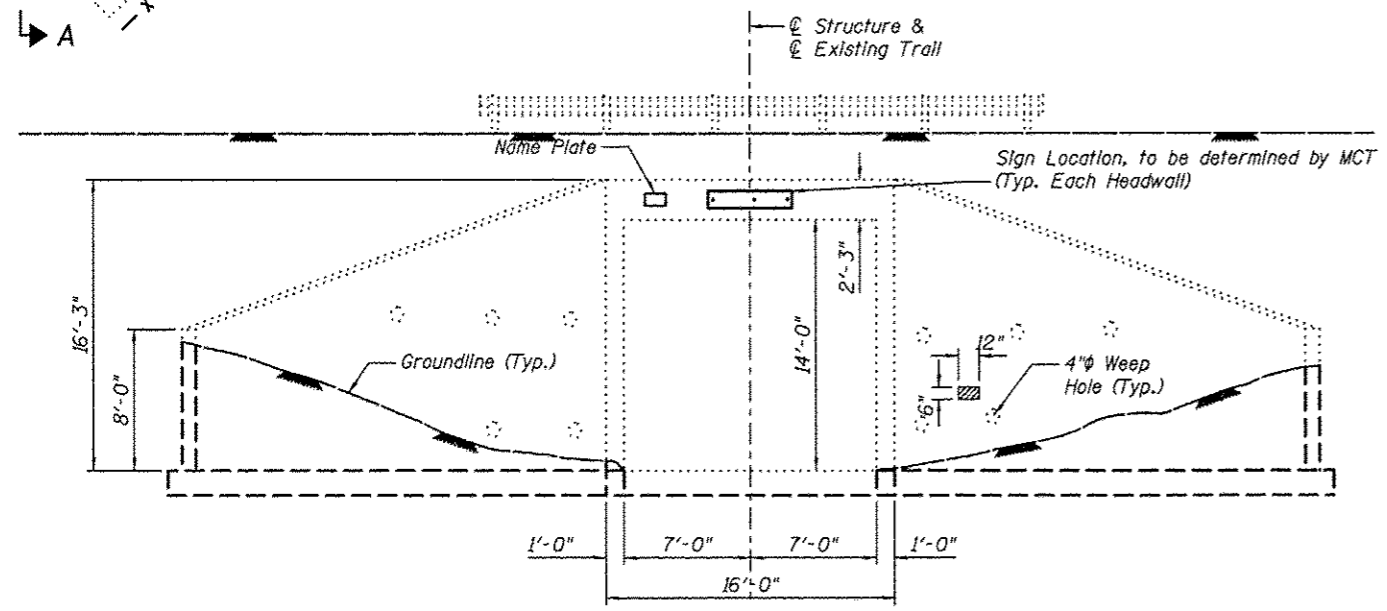
Note:
All dimensions are approximate.
All new timber members shown shall be included in the pay item Treated Timber.

Juneau Associates, Inc. P.C. CONSULTING ENGINEERS AND LAND SURVEYORS 2100 State Street, P.O. Box 1322 Granite City, Illinois 62040 Phone: (618) 872-1400 Fax: (618) 872-1401		GLEN CARBON HERITAGE BIKE TRAIL OVER JUDY BRANCH MADISON COUNTY STATION 198+54.27 STRUCTURE NO. 6	
REVISIONS NO. DATE BY REMARKS		SCALE: NOT TO SCALE, FOLLOW DIMENSIONS	
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CHK'D: WWH DATE: 10/18/12		DGN. NO. E064403 DGN. NO. OF 310 SHTS	

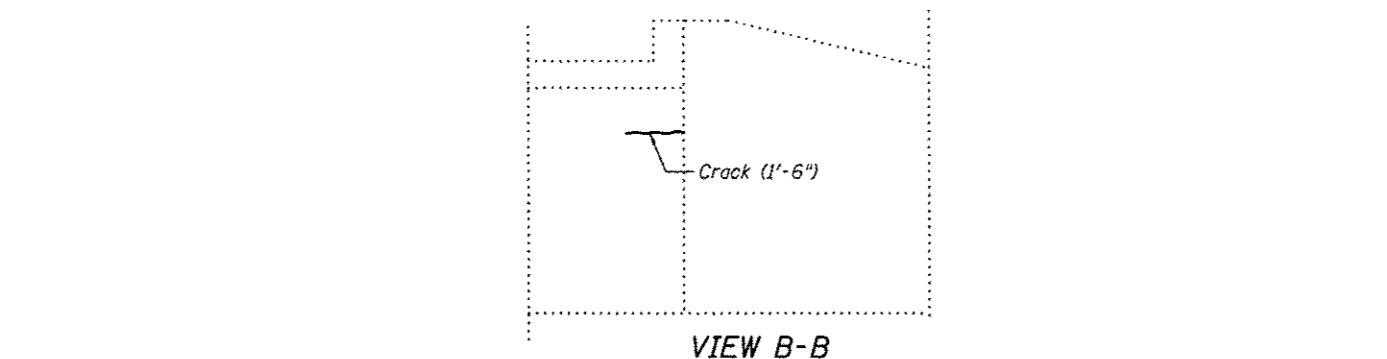
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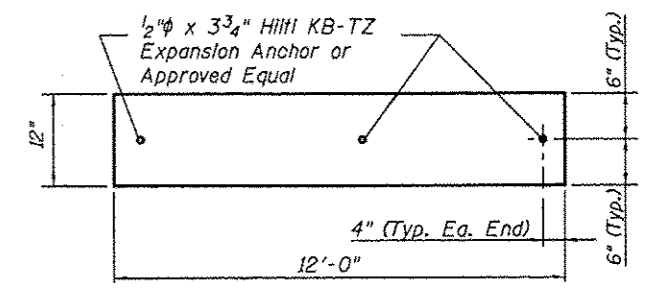
PLAN



VIEW A-A



VIEW B-B



SIGN
(2 Required)
6" White Letters on Green Background

TOTAL BILL OF MATERIAL

ITEM	UNIT	TOTAL
Structural Repair of Concrete (Depth Equal to or less than 5 inches)	Sq Ft	90
Furnish and Erect Sign Panel	Sq Ft	24
Epoxy Crack Injection	Foot	10
Box Culverts to be Cleaned	Foot	200
Paint Removal	Sq Ft	7820

LEGEND

- Epoxy Crack Injection
- Structural Repair of Concrete (Depth Equal to or less than 5")

Note:
All cracks are hairline unless otherwise noted.

I certify to the best of knowledge, information and belief, this pedestrian fence design is structurally adequate for the design loading shown on the plans. The design is an economical one for the style of structure and complies with requirements of the current AASHTO Standard Specification for Highway Bridges.



Wesley W. Herndon 1/2/13
WESLEY W. HERNDON, S.E. DATE

REVISIONS				SCALE: NOT TO SCALE, FOLLOW DIMENSIONS	
NO.	DATE	BY	REMARKS	DSN BY:	DATE:
				DB	10/18/12
				EER	10/18/12
				WNH	10/18/12

GENERAL NOTES

Plan dimensions and details relative to existing structure 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.

See Bikeway Plans for underground utility locations.

See Bikeway Plans for profile grade of trail.

SIGN NOTES

All traffic control signs shall be manufactured and erected in accordance with the "Manual on Uniform Traffic Control Devices for Streets and Highways" latest edition, as published by the U.S. Department of Transportation and the "Illinois Supplement to the National Manual on Uniform Traffic Control Devices" latest edition, and the "Standard Specifications for Road and Bridge Construction", latest edition, as published by the Illinois Department of Transportation; and as shown on the plans.

All dimensions of all traffic control signs shall be the minimum size shown on the above referenced manual unless otherwise stated on the plans.

Artwork to be provided by the Madison County Transit District.

Madison County Transit District shall direct the contractor as to the vertical placement of the sign on the tunnel head wall. 3/8" round holes shall be field drilled into the aluminum sign to match the final installation placement of the sign.

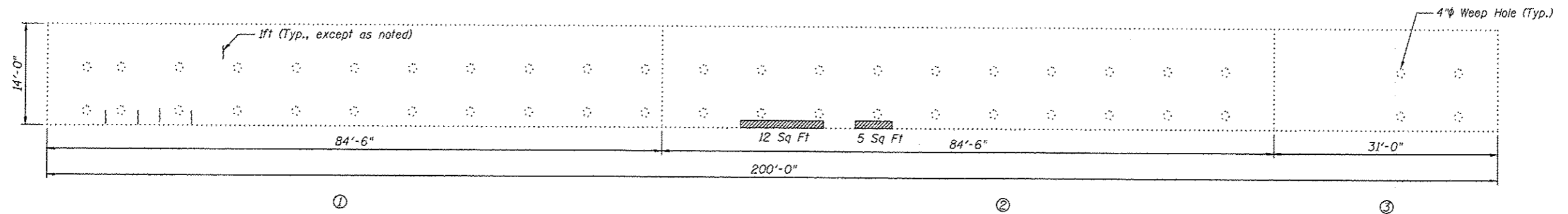
The sign panel must comply with IDOT Standard Specifications, Section 720.

All hardware shall be HILTI KB-TZ Expansion Anchors or an approved equal and shall be Type 304 or 316 stainless steel with a minimum embedment of 2 3/8". All nuts, and washers shall be Type 304 or 316 stainless steel.

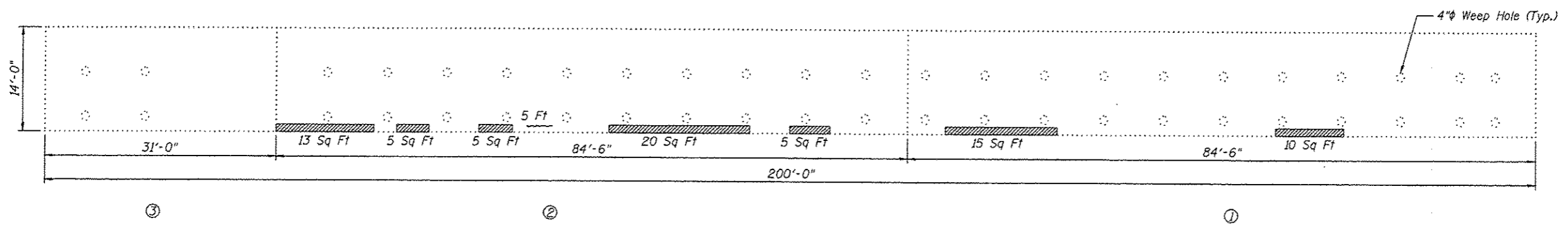
Payment for furnishing and installing all material & labor necessary to construct the signs, including the field drilling existing concrete, field drilling sign, expansion anchors and all other appurtenances and incidental work as shown, complete in place, will be considered completely covered by the contract unit price for Furnish and Erect Sign Panel per each.

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F.A.D. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	06-00016-00-BT	MADISON	310	207
FED. ROAD DIST. NO.	ILLINOIS	CONTRACT NO. 97433		



North Wall Elevation
(Looking North)



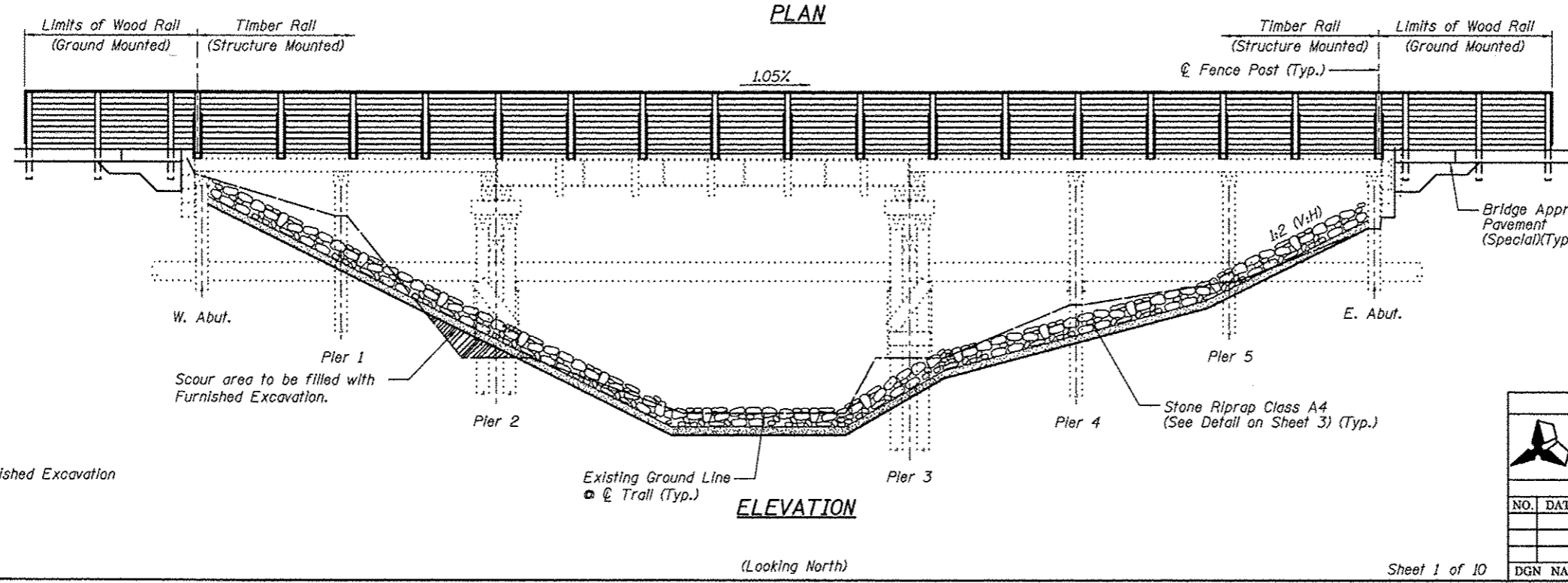
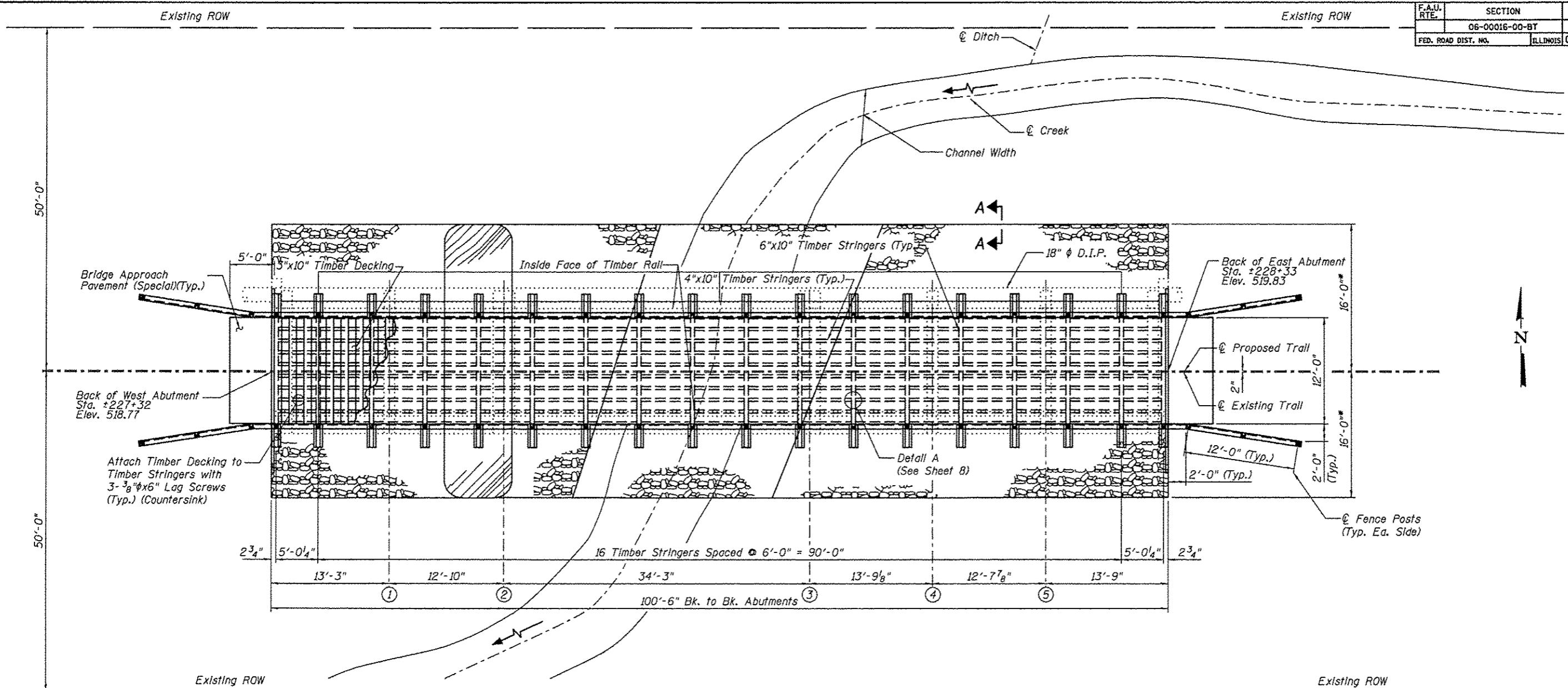
South Wall Elevation
(Looking South)

LEGEND

- Epoxy Crack Injection
- Structural Repair of Concrete (Depth Equal to or less than 5")

JunEAU Associates, Inc. P.C. <small>CONSULTING ENGINEERS AND LAND SURVEYORS</small> <small>2140 State Street, P.O. Box 1325 Granite City, Illinois 62040 Phone: (618) 938-1400 Fax: (618) 938-4541</small>		GLEN CARBON HERITAGE BIKE TRAIL TUNNEL UNDER IL RTE. 159 MADISON COUNTY STATION 219+71.97 STRUCTURE NO. 7																	
		PROPOSED DETAILS																	
<table border="1"> <thead> <tr> <th>NO.</th> <th>DATE</th> <th>BY</th> <th>REMARKS</th> </tr> </thead> <tbody> <tr> <td> </td> <td> </td> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> <td> </td> <td> </td> </tr> </tbody> </table>		NO.	DATE	BY	REMARKS													SCALE: NOT TO SCALE, FOLLOW DIMENSIONS	
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JOB NO. E064403		DWN. BY: EER	DATE: 10/18/12																
DGN. NO.		CHK'D: WWH	DATE: 10/18/12																
OF 310 SHEETS		207																	

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Notes:

All dimensions are approximate.

For General Notes and Total Bill of Material, see Sheet No. 2

For Section A-A and Stone Riprap Details, see Sheet No. 3

For Cross Sections and Approach Slab Details, see Sheet No. 3

All new timber members shown shall be included in the pay item Treated Timber.

I certify to the best of knowledge, information and belief, this bridge design is structurally adequate for the design loading shown on the plans. The design is an economical one for the style of structure and complies with requirements of the current AASHTO Standard Specification for Highway Bridges.

Wesley W. Herndon 10/2/13

WESLEY W. HERNDON, S.E. DATE

Expires 11-30-13

REVISIONS				SCALE: NOT TO SCALE, FOLLOW DIMENSIONS			
NO.	DATE	BY	REMARKS	DSN. BY:	DATE:		SHEET
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				EER	10/18/12		
				WWH	10/18/12		
DGN NAME:				JOB NO. E064403	DGN. NO.	OF 310 SHEETS	

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Legend

Void, to be filled with Furnished Excavation

* Limits of Stone Riprap

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	06-0016-00-BT	MADISON	310	209
FED. ROAD DIST. NO.	ILLINOIS	CONTRACT NO. 97433		

GENERAL NOTES

The contractor shall assume full responsibility for imposed construction loading on the existing deteriorated bridge structures prior to the repair work being performed. After the repair work is performed per the plans, all bridge structures shall be limited to an AASHTO H15 loading as shown below. The new repaired and refurbished structures shall not be loaded with a vehicle that exceeds either 15 tons of total vehicle weight or a 12 ton axle weight. Once the proposed decking is installed the contractor shall take precautions to protect the decking surface and railings from any damage caused by construction activities.

Reinforcement bars shall conform to the requirements of ASTM A706 Grade 60 and IDOT Special Provisions. Shop drawings for all reinforcement shall be submitted to the Engineer for approval prior to fabrication.

Reinforcement bars designated (E) shall be epoxy coated. See Bikeway Plans for underground utility locations. See Bikeway Plans for profile grade of trail.

Bolts and lag screws shall conform to ASTM A307. All hardware including anchors, plates, bolts, screws, nails, nuts and washers, etc. shall be stainless steel in accordance with Article 1006.17 of the IDOT Standard Specifications, unless otherwise noted.

Fence rail and Wood Rail are designed for horizontal loading of 50 lb/ft per horizontal rail only, in accordance with AASHTO Article 2.7.3

Furnishing and placement of riprap and bedding shall be in accordance with Section 281 of the latest IDOT Standard Specifications. Furnishing and placement of filter fabric shall be in accordance with Section 282 of the latest IDOT Standard Specifications.

An 18 inch diameter D.I.P. sewer is currently located on and adjacent to this structure. The 18 inch diameter sewer, owned and operated by the Village of Glen Carbon, shall remain in service through all construction activities including but not limited to: excavation, the partial removal of the structure, and replacement of the substructure and superstructure. The cost associated with construction activities around the sewer will not be paid for separately but will be included in the price bid for other items.

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

The embankment configuration shown shall be the minimum embankment that must be constructed.

Payment for furnishing all material, labor and excavation necessary to construct the concrete approach slab, including concrete, preformed joint filler and epoxy coated reinforcement bars and all other appurtenances and incidental work, complete in place, will be considered completely covered by the contract unit price per square yard for Bridge Approach Pavement (Special).

Payment for furnishing & installing all material, necessary to construct the treated timber superstructure, including all stringers, blocks, decking, posts, rails, bracing, hardware plates, angles, shims and all other appurtenances and incidental work, complete in place, will be considered completely covered by the contract unit price per foot board measure for Treated Timber.

Payment for furnishing and installing all material, necessary for new treated timber substructure members including all backwall, pier cap, longitudinal and diagonal bracing, hardware and all other appurtenances and incidental work, complete in place, will be considered completely covered by the contract unit price per foot board measure for Treated Timber.

During construction operations, temporary bracing and/or shoring shall be provided wherever necessary to take care of all loads to which the structure may be subjected, including equipment and the operation of same. Such bracing and/or shoring shall be left in place as long as may be required for safety. When a temporary shoring or cribbing support system is required, the Contractor shall provide details and computations, prepared and sealed by an Illinois licensed Structural Engineer, to the Engineer for review and approval. When ever possible the support system shall be installed prior to starting the associated repair. If no system is specified, but during the course of repair the need for temporary shoring or cribbing becomes apparent or is directed by the Engineer due to a structural concern, the Contractor shall not proceed with any further removal work until an appropriate and approved support system is installed.

Treated timber shall be according to Sections 507 and 1007 of the Standard Specifications. Wood members shall be free of knots warping and twisting and visually graded No. 1 Southern Pine or No. 1 Douglas Fir - Larch, or approved equivalent.

Plan dimensions and details relative to existing structure 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.

Bolt holes in lumber shall be in accordance with Article 507.08 of the IDOT Standard Specifications.

All dimensions are shown in inches unless otherwise noted.

Lumber sizes shown are nominal dimensions in inches. Lumber shall be surfaced four sides.

Holes for all hardware shall be predrilled to avoid splitting.

All Structural Steel, including angles and plates, shall conform to AASHTO M270 in accordance with Article 1006.04 and shall be hot dipped galvanized according to AASHTO M232.

DESIGN SPECIFICATIONS

2002 AASHTO, 17th Edition
1997 AASHTO Guide Specifications for Design of Pedestrian Bridges

LOADING

Pedestrian Live Load = 85 psf
Vehicle Live Load = H-15

DESIGN STRESSES


FIELD UNITS

f'c = 3,500 psi (Concrete)
fy = 36,000 psi (Structural Steel)
fy = 45,000 psi (Bolts, Nuts, etc.)

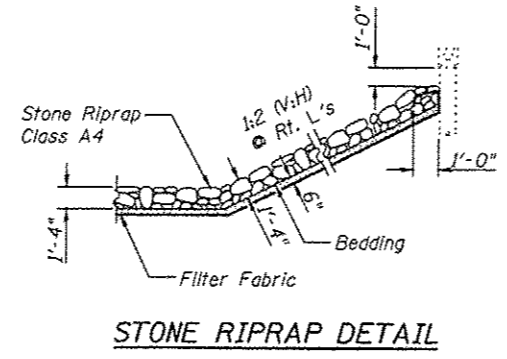
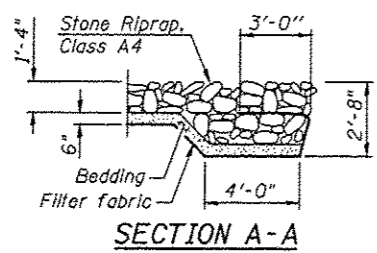
Design stresses for wood members shall be as specified in Section 1007 of the IDOT Standard Specifications.

TOTAL BILL OF MATERIAL

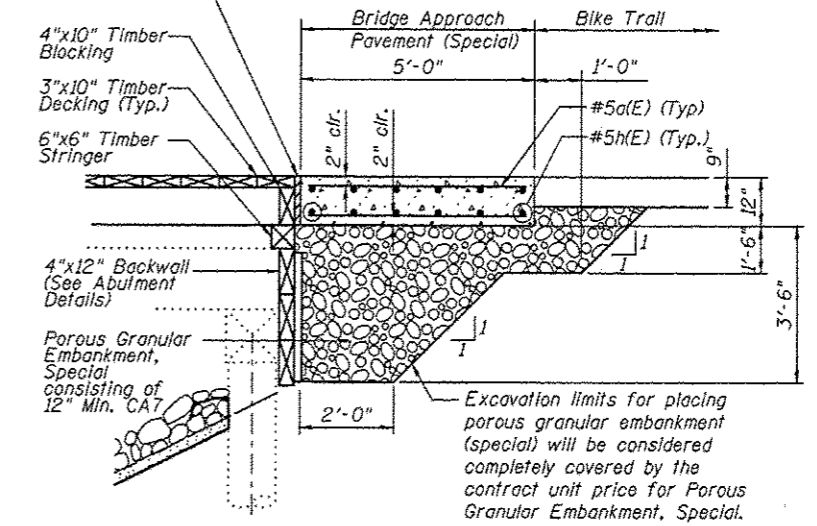
ITEM	UNIT	SUPER	SUB	TOTAL
Removal of Existing Structures, Special	Each			1
Wood Rail	Foot	58		58
Tree Removal, Acres	Acres		0.01	0.01
Channel Excavation	Cu. Yd.		245	245
Furnished Excavation	Cu. Yd.		50	50
Porous Granular Embankment, Special	Cu. Yd.		17	17
Stone Riprap, Class A4	Sq. Yd.		350	350
Filter Fabric	Sq. Yd.		350	350
Bridge Approach Pavement (Special)	Sq. Yd.	14		14
Treated Timber	F.B.M.	10110	593	10703

 Juneau Associates, Inc. P.C. CONSULTING ENGINEERS AND LAND SURVEYORS 2100 State Street, P.O. Box 1325 Granite City, Illinois 62040 Phone: (618) 817-1400 Fax: (618) 817-1401		GLEN CARBON HERITAGE BIKE TRAIL OVER JUDY BRANCH MADISON COUNTY STATION 227+74.04 STRUCTURE NO. 8	
REVISIONS NO. DATE BY REMARKS		SCALE: NOT TO SCALE, FOLLOW DIMENSIONS	
DSN. BY: DB DATE: 10/18/12		SHEET	
DWN. BY: EER DATE: 10/18/12		209	
CHK'D: WHH DATE: 10/18/12		OF 310 SHEETS	
DGN NAME:		JOB NO. E064403 DGN. NO.	

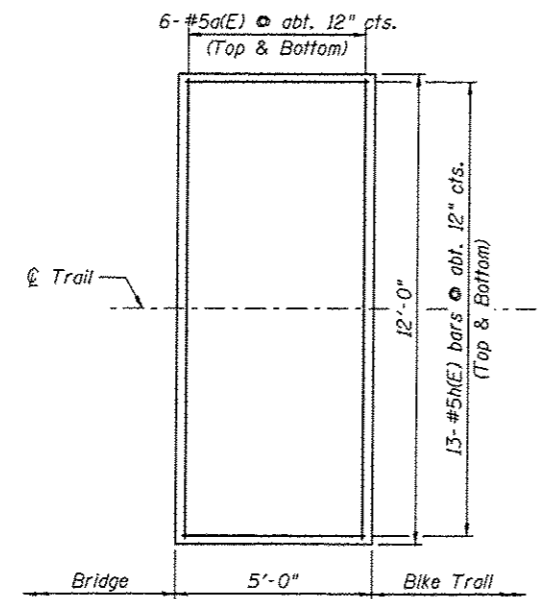
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1" Preformed Joint Filler in accordance with Section 1051 of the Standard Specifications. Cost included with Bridge Approach Pavement (Special)



BRIDGE APPROACH PAVEMENT (SPECIAL) DETAIL



BRIDGE APPROACH PAVEMENT (SPECIAL) PLAN
 Note: 276 Lbs. of epoxy coated reinforcement bars

BRIDGE APPROACH BILL OF MATERIAL

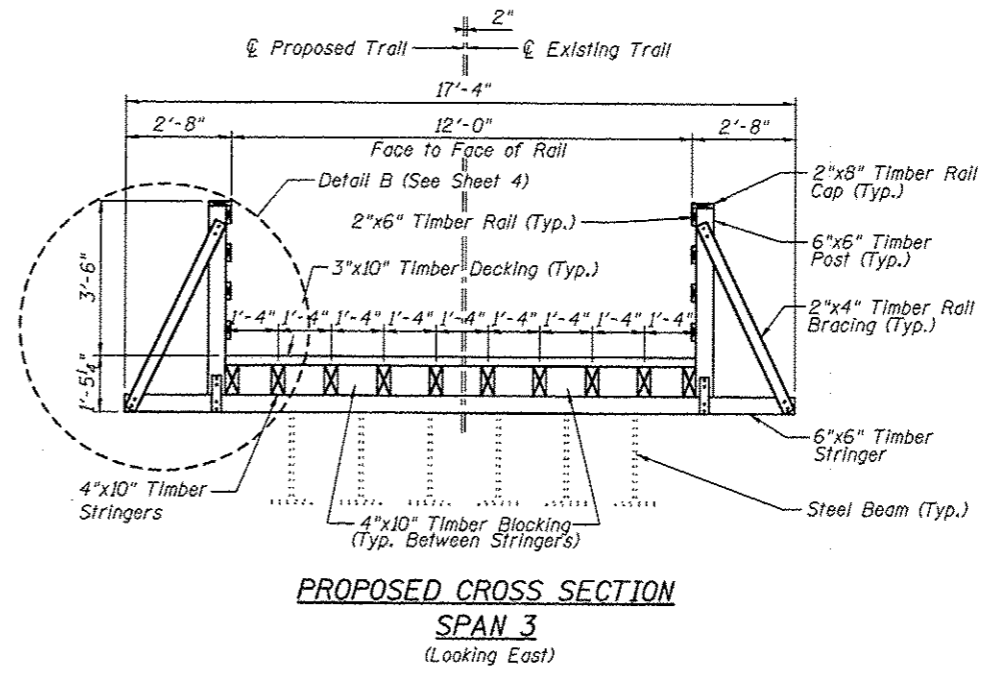
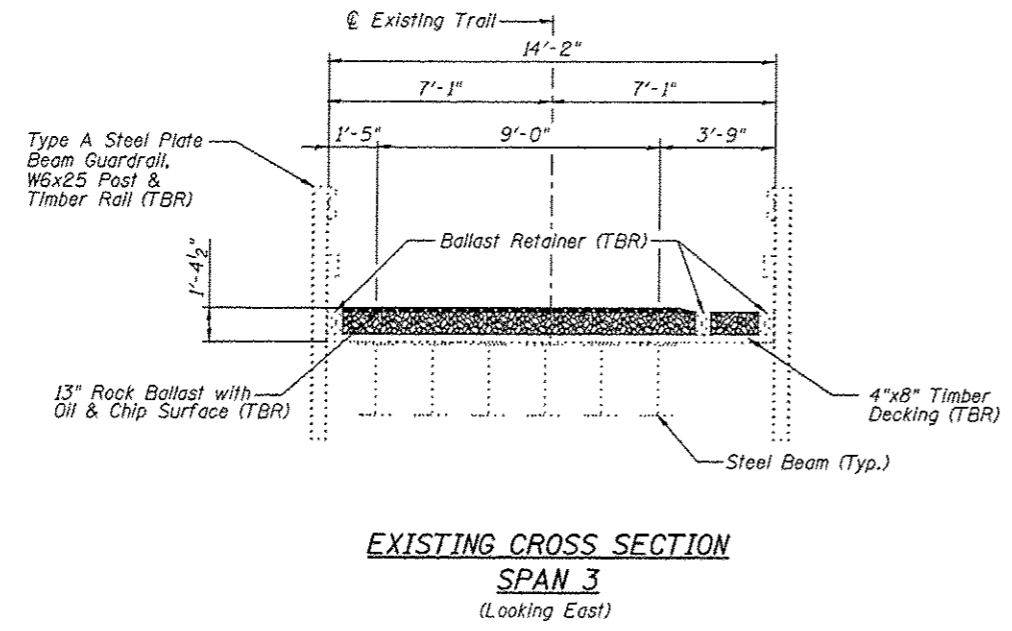
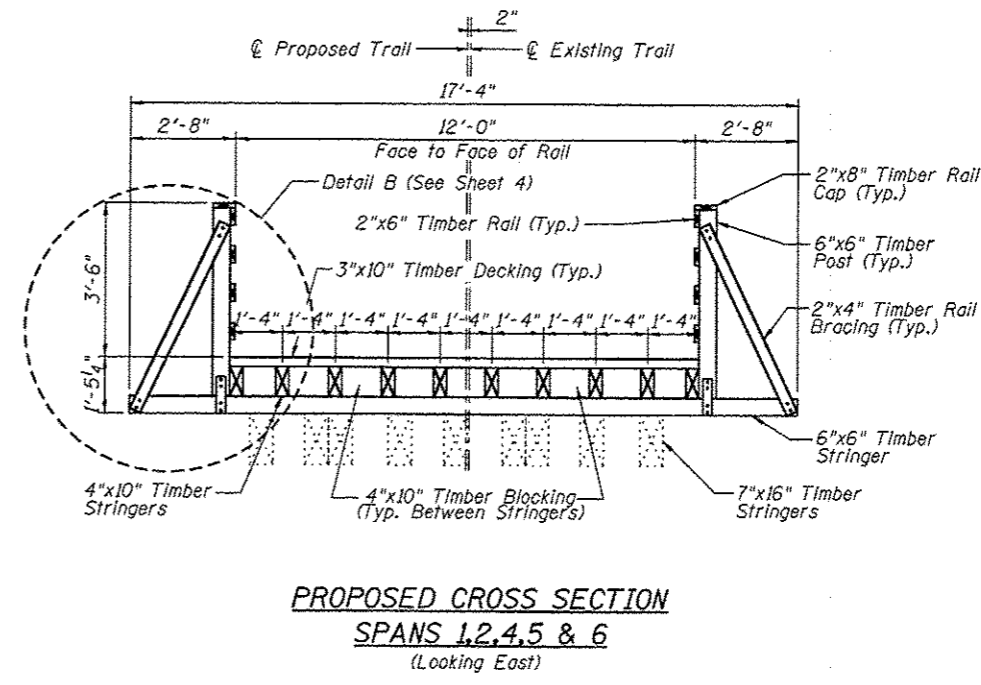
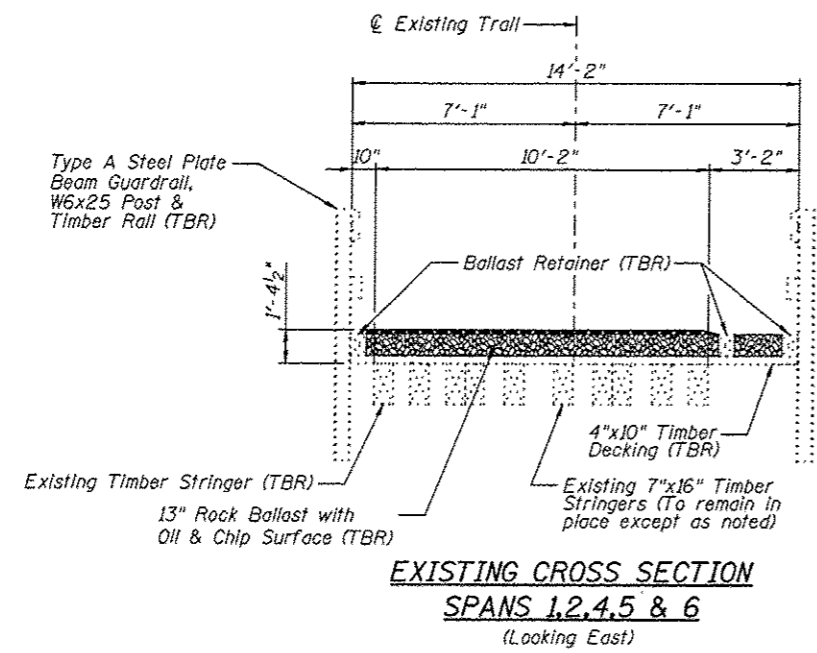
Item	Unit	Quantity
Porous Granular Embankment, Special	Cu. Yd.	17

Note:
 All dimensions are approximate.
 All new timber members shown shall be included in the pay item Treated Timber.
 All items determined by the Engineer to have salvageable value, including the Type A Steel Plate Beam Guardrail, W6x25 Posts, 3"x8" Timber Rail and 7"x16" Timber Stringers in good condition, shall be transported and stored at locations and in a manner approved by the Engineer.

Juneau Associates, Inc. P.C. CONSULTING ENGINEERS AND LAND SURVEYORS 1100 State Street, P.O. Box 1325 Granite City, Illinois 62406 Phone: (618) 937-1100 Fax: (618) 937-5511		GLEN CARBON HERITAGE BIKE TRAIL OVER JUDY BRANCH MADISON COUNTY STATION 227+74.04 STRUCTURE NO. 8									
REVISIONS <table border="1"> <thead> <tr> <th>NO.</th> <th>DATE</th> <th>BY</th> <th>REMARKS</th> </tr> </thead> <tbody> <tr> <td> </td> <td> </td> <td> </td> <td> </td> </tr> </tbody> </table>		NO.	DATE	BY	REMARKS					SCALE: NOT TO SCALE, FOLLOW DIMENSIONS	
NO.	DATE	BY	REMARKS								
DSN. BY: DB DWN. BY: EER CHK'D: WWH DGN NAME:		DATE: 10/18/12 DATE: 10/18/12 DATE: 10/18/12 JOB NO. E064403 DGN. NO.									
SHEET 210 OF 310 SHEETS		SHEET NO.									

Printed 10/04/12 AM 12/19/2012 W:\STRUCTURE\064403 MET Heritage Trail\Drawings\Structure -081\Proposed Structure (07-2012)\03\2010 Cross Sections.dgn

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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FED. ROAD DIST. NO.	ILLINOIS	CONTRACT NO.	97433	

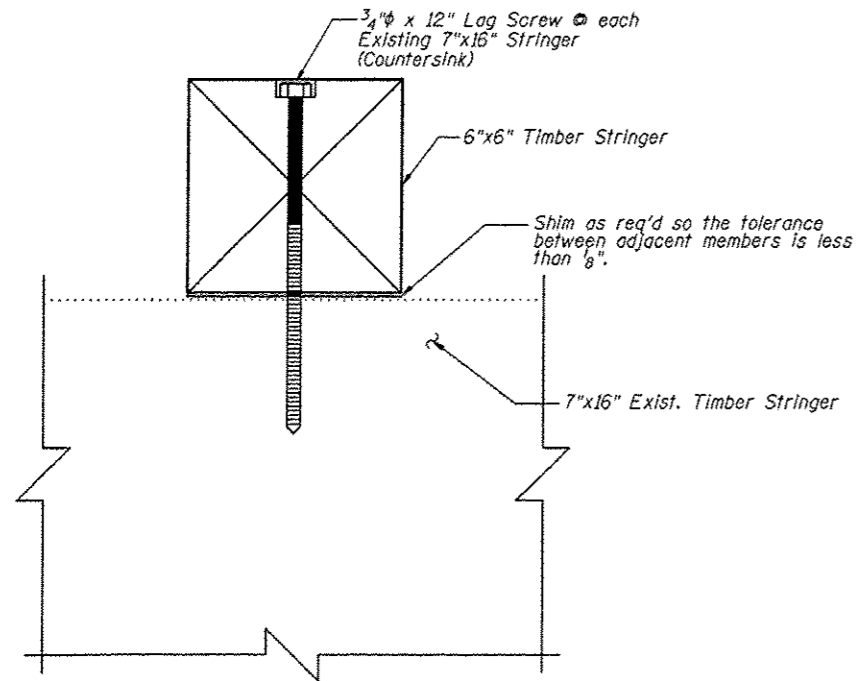


Legend
TBR - To Be Removed

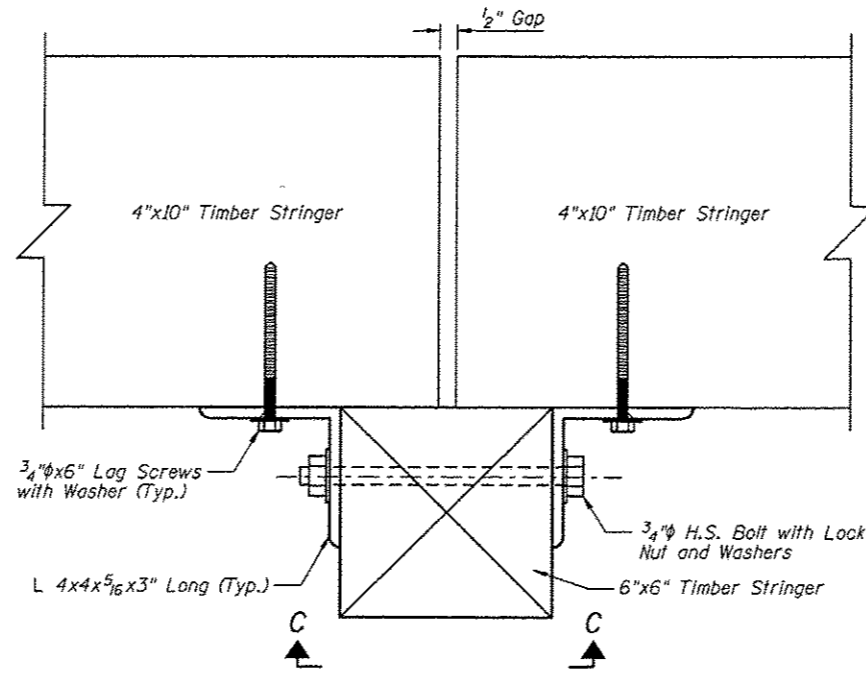
Note:
All dimensions are approximate.
For Treated Timber Quantity, see Sheet No. 5
All new timber members shown shall be included in the pay item Treated Timber.

Juneau Associates, Inc. P.C. CONSULTING ENGINEERS AND LAND SURVEYORS 2120 State Street, P.O. Box 1225 Oneonta, N.Y. 13827-4290 Phone: 607-337-4100 Fax: 607-337-4541		GLEN CARBON HERITAGE BIKE TRAIL OVER JUDY BRANCH MADISON COUNTY STATION 227+74.04 STRUCTURE NO. 8	
REVISIONS NO. DATE BY REMARKS		SCALE: NOT TO SCALE, FOLLOW DIMENSIONS	
DSN. BY:	DB	DATE:	10/18/12
DWN. BY:	EER	DATE:	10/18/12
CHK'D:	WWH	DATE:	10/18/12
DGN. NAME:	JOB NO. E064403	DGN. NO.	OF 310 SHEETS

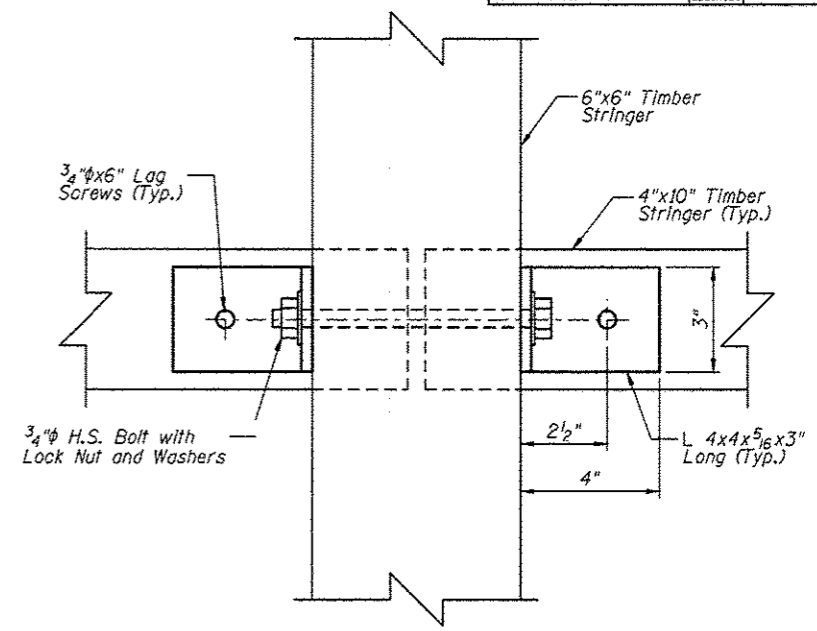
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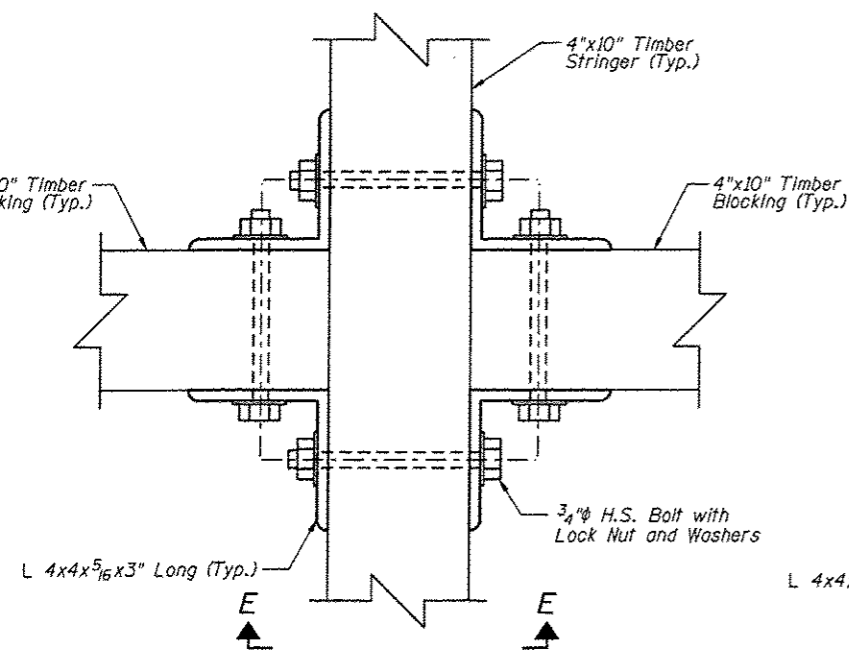
SECTION A-A



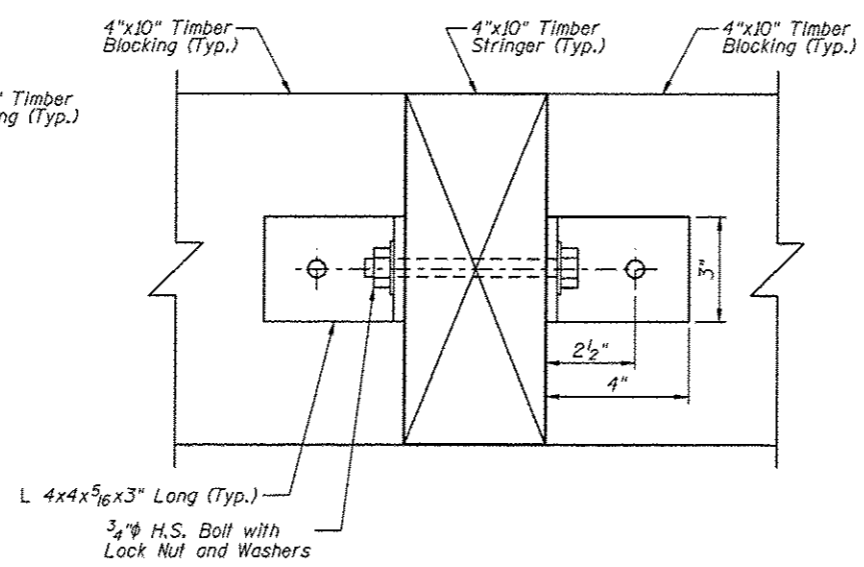
SECTION B-B
(Section G-G Similar)



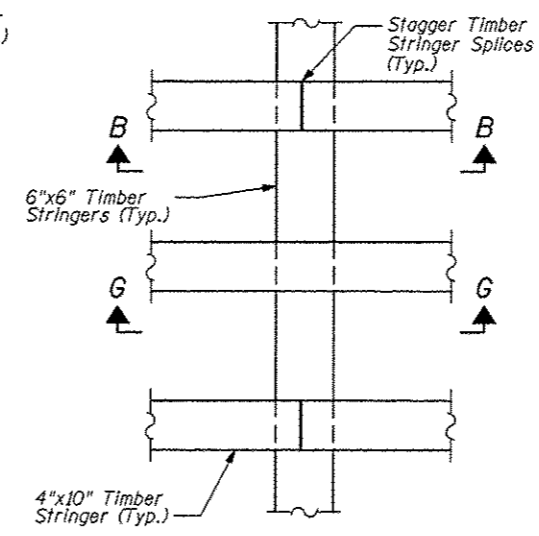
SECTION C-C



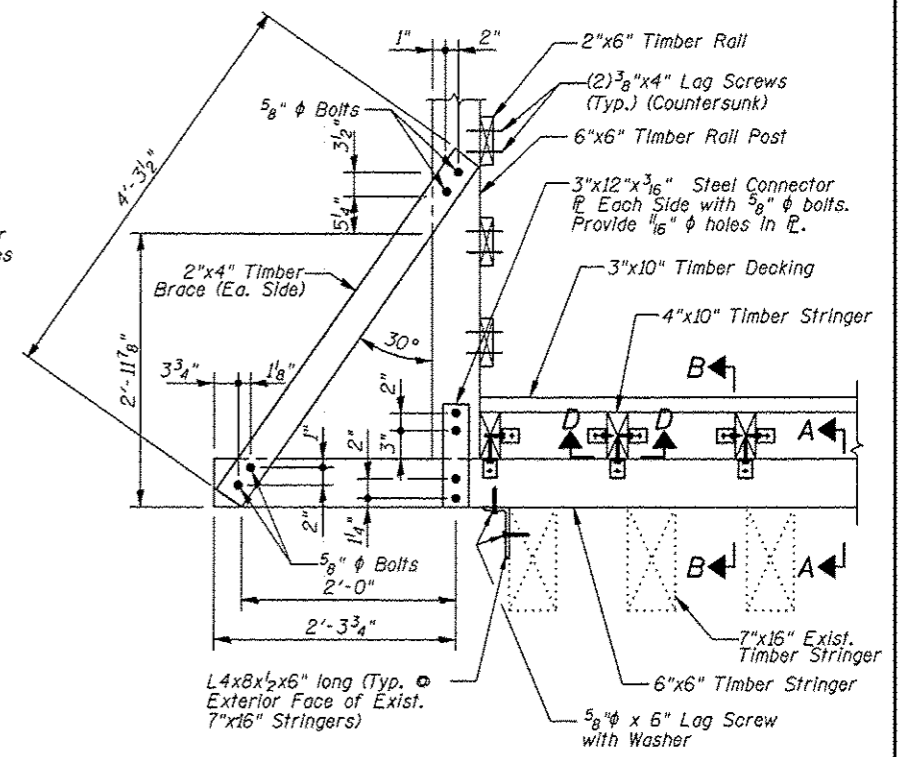
SECTION D-D



SECTION E-E



DETAIL A



DETAIL B

SUPERSTRUCTURE
BILL OF MATERIAL

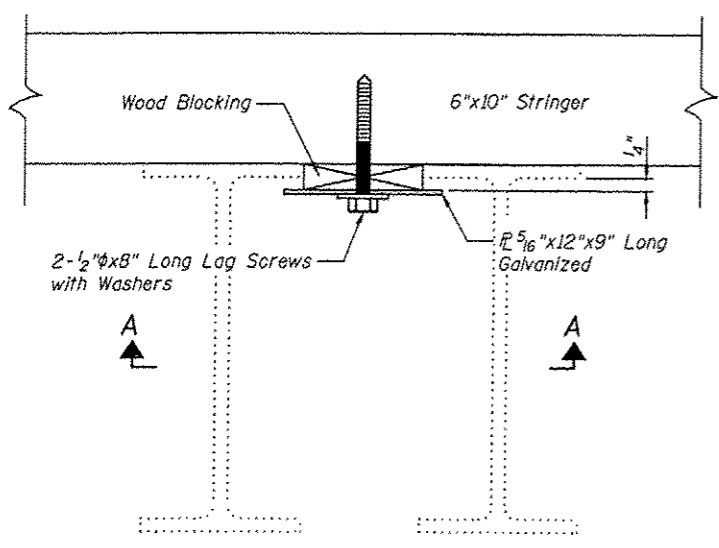
Item	Unit	Quantity
Treated Timber	F.B.M.	10110

Note:
All new timber members shown shall be included in the pay item Treated Timber.

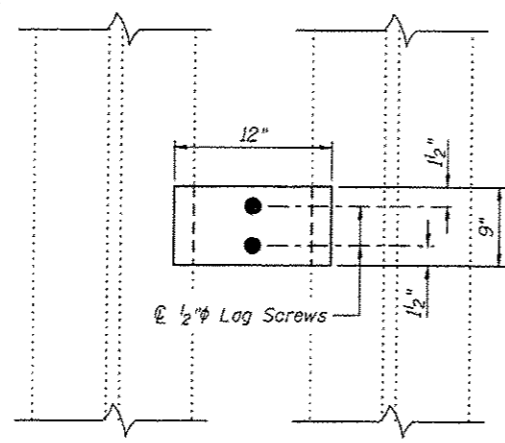
Juneau Associates, Inc. P.C. CONSULTING ENGINEERS AND LAND SURVEYORS 7100 11th Street, P.O. Box 1325 Seattle, WA 98115-0132 Phone: (206) 465-1100 Fax: (206) 465-1111		GLEN CARBON HERITAGE BIKE TRAIL OVER JUDY BRANCH MADISON COUNTY STATION 227+74.04 STRUCTURE NO. 8	
REVISIONS NO. DATE BY REMARKS		SCALE: NOT TO SCALE, FOLLOW DIMENSIONS	
DSN. BY: DB	DATE: 10/18/12	SHEET	
DWN. BY: EER	DATE: 10/18/12	212	
CHK'D: WWH	DATE: 10/18/12		
DGN NAME:	JOB NO. E064403	DGN. NO.	OF 810 SHEETS

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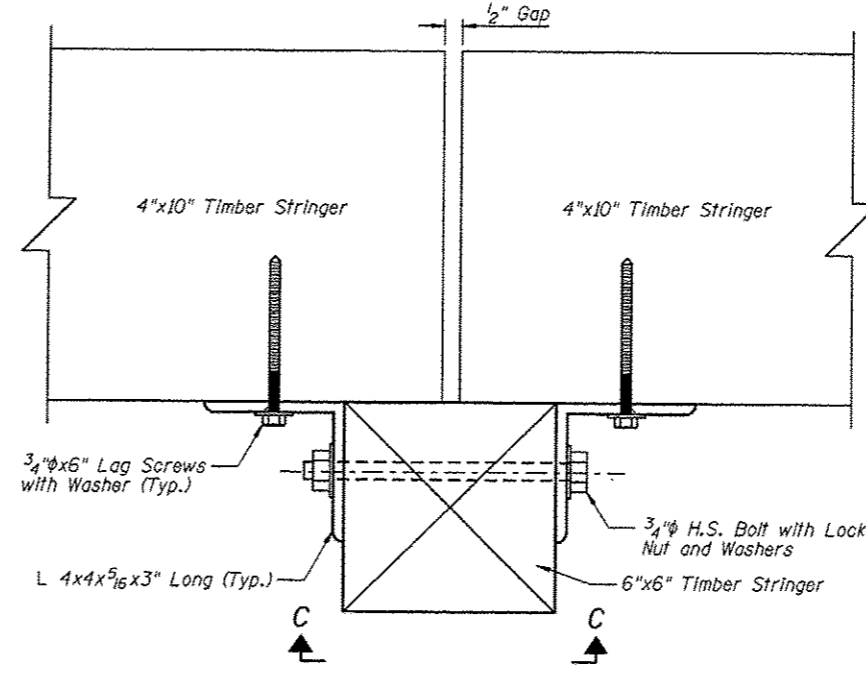
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FED. ROAD DIST. NO.	ILLINOIS	CONTRACT NO.	97433	



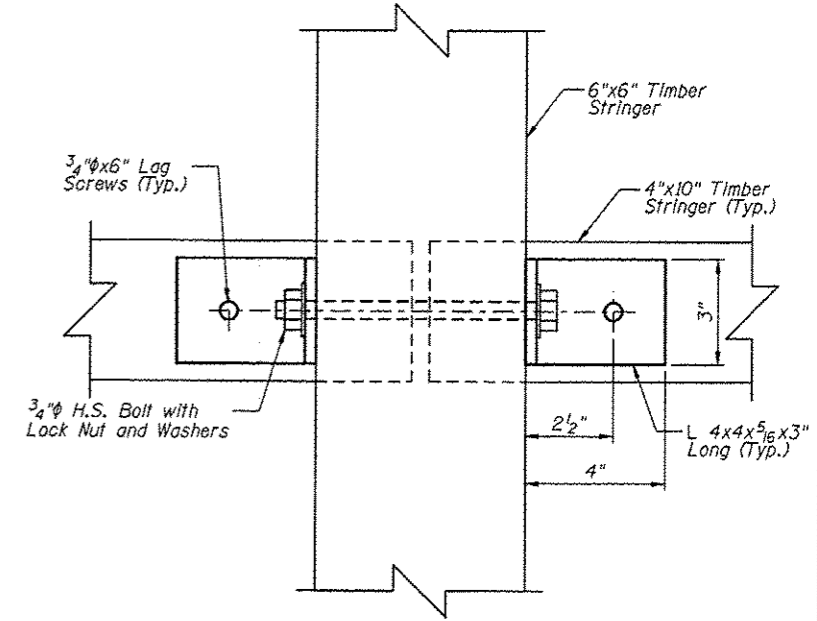
HOLD DOWN CONNECTION DETAIL
2 Required at each 6"x10" Timber Stringer



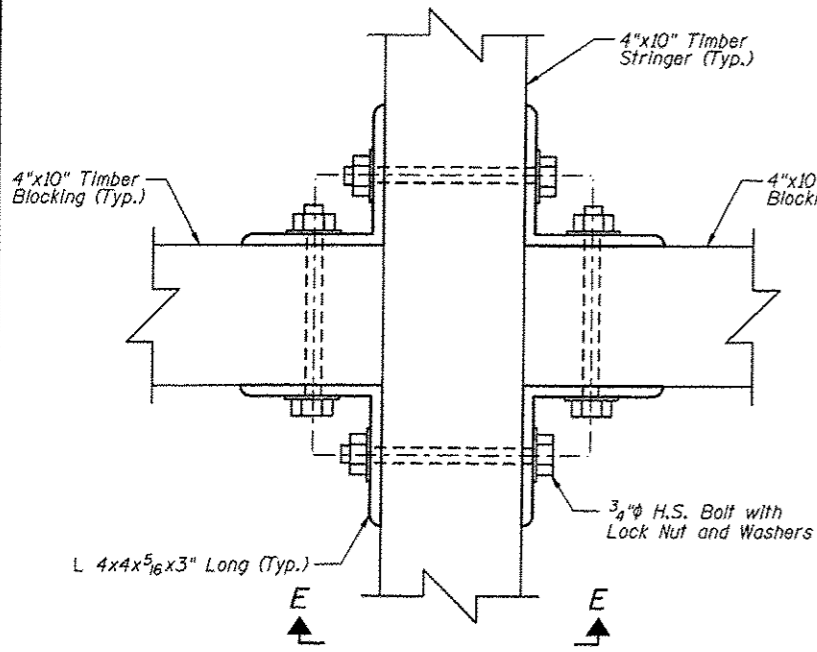
VIEW A-A



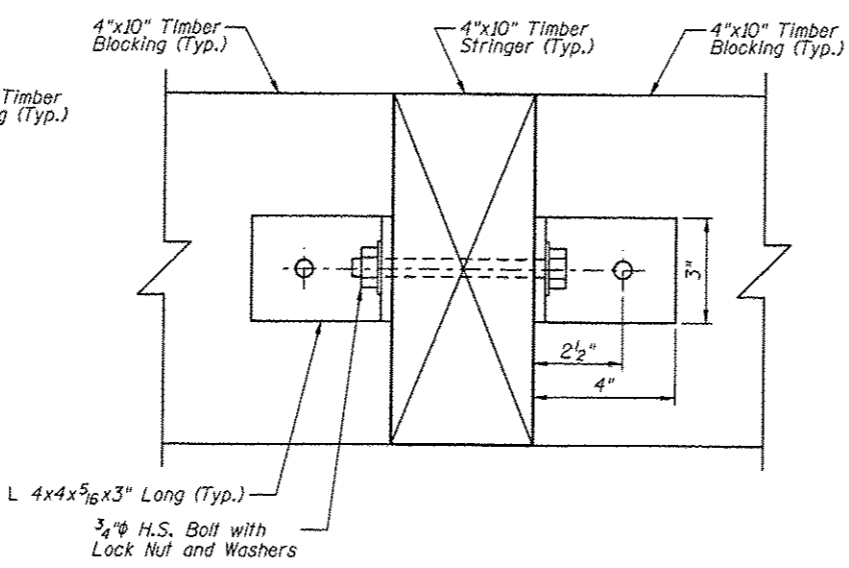
SECTION B-B
(Section G-G Similar)



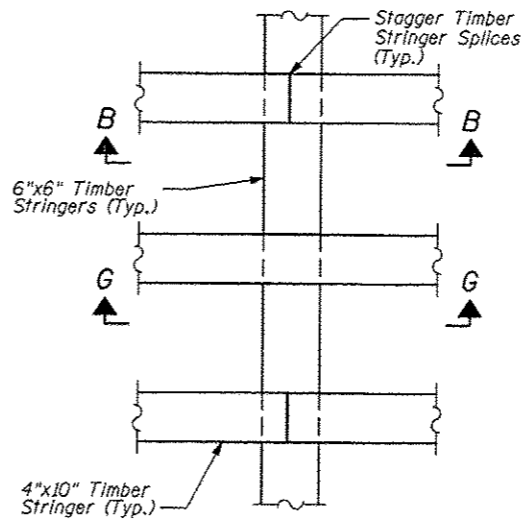
SECTION C-C



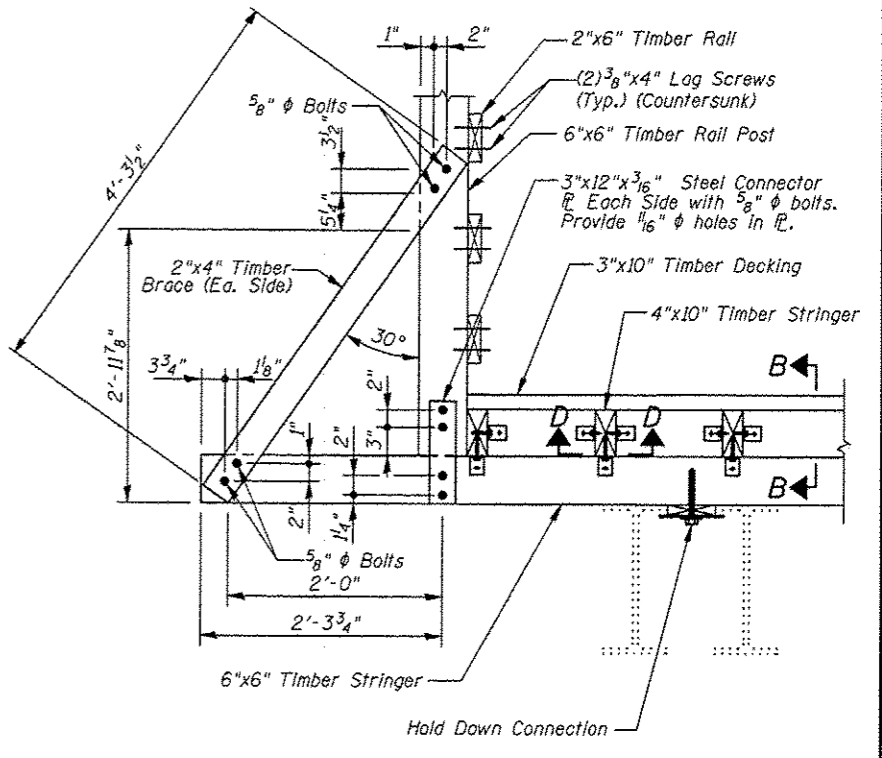
SECTION D-D



SECTION E-E



DETAIL A



DETAIL B

All new timber members shown shall be included in the pay item Treated Timber.

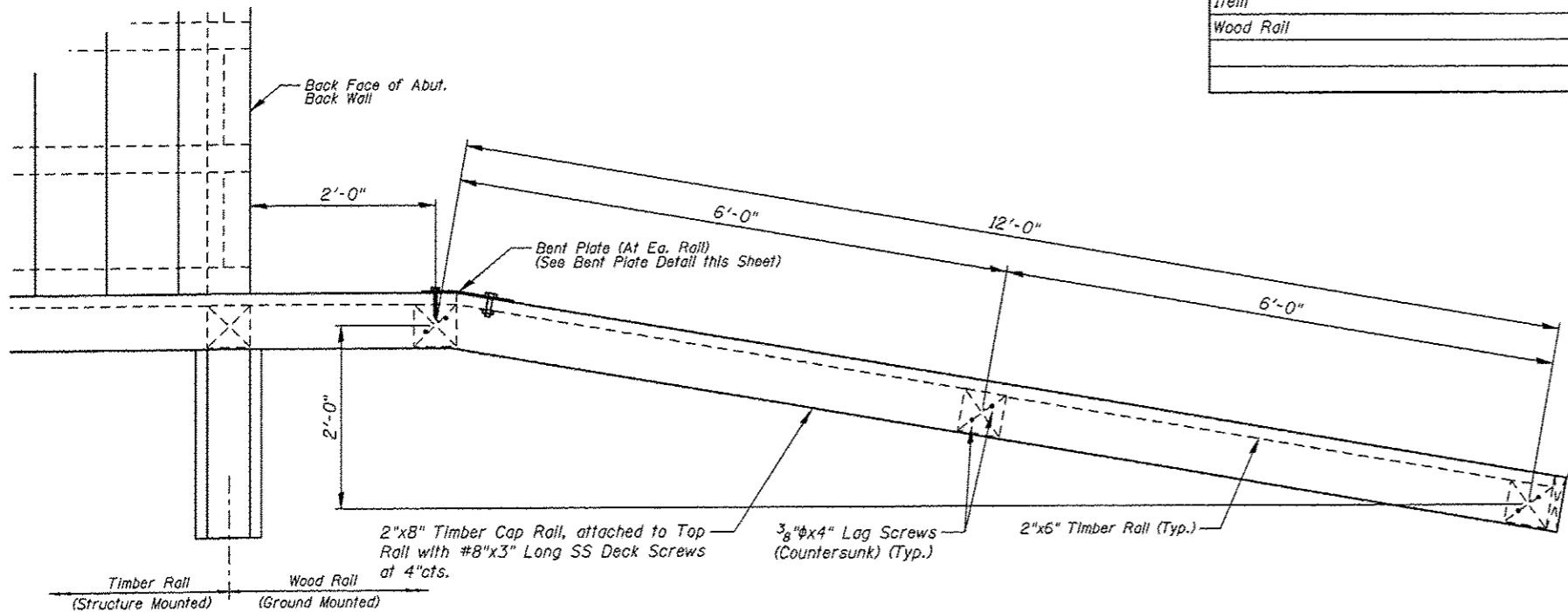
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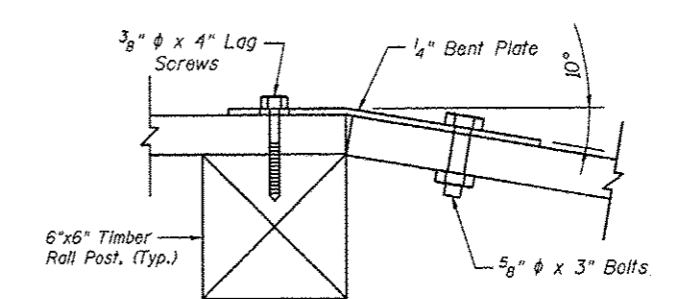
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	06-00016-00-BT	MADISON	310	214
FED. ROAD DIST. NO.	ILLINOIS CONTRACT NO.		97433	

WOOD RAIL BILL OF MATERIAL

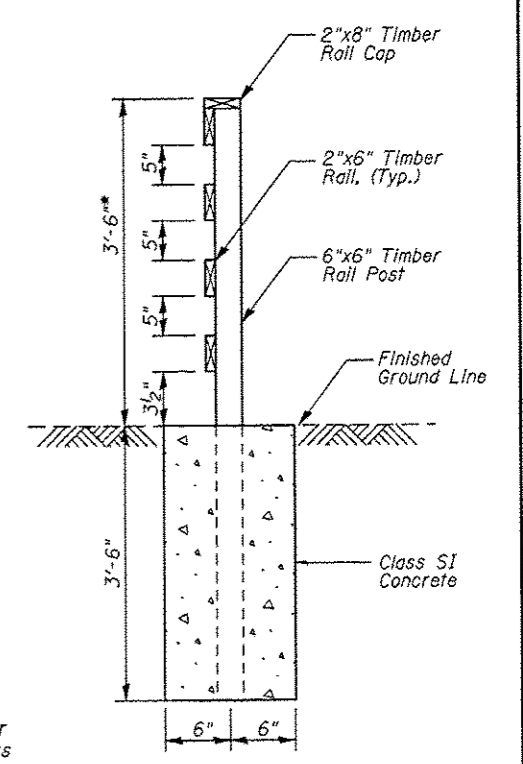
Item	Unit	Quantity
Wood Rail	Foot	58



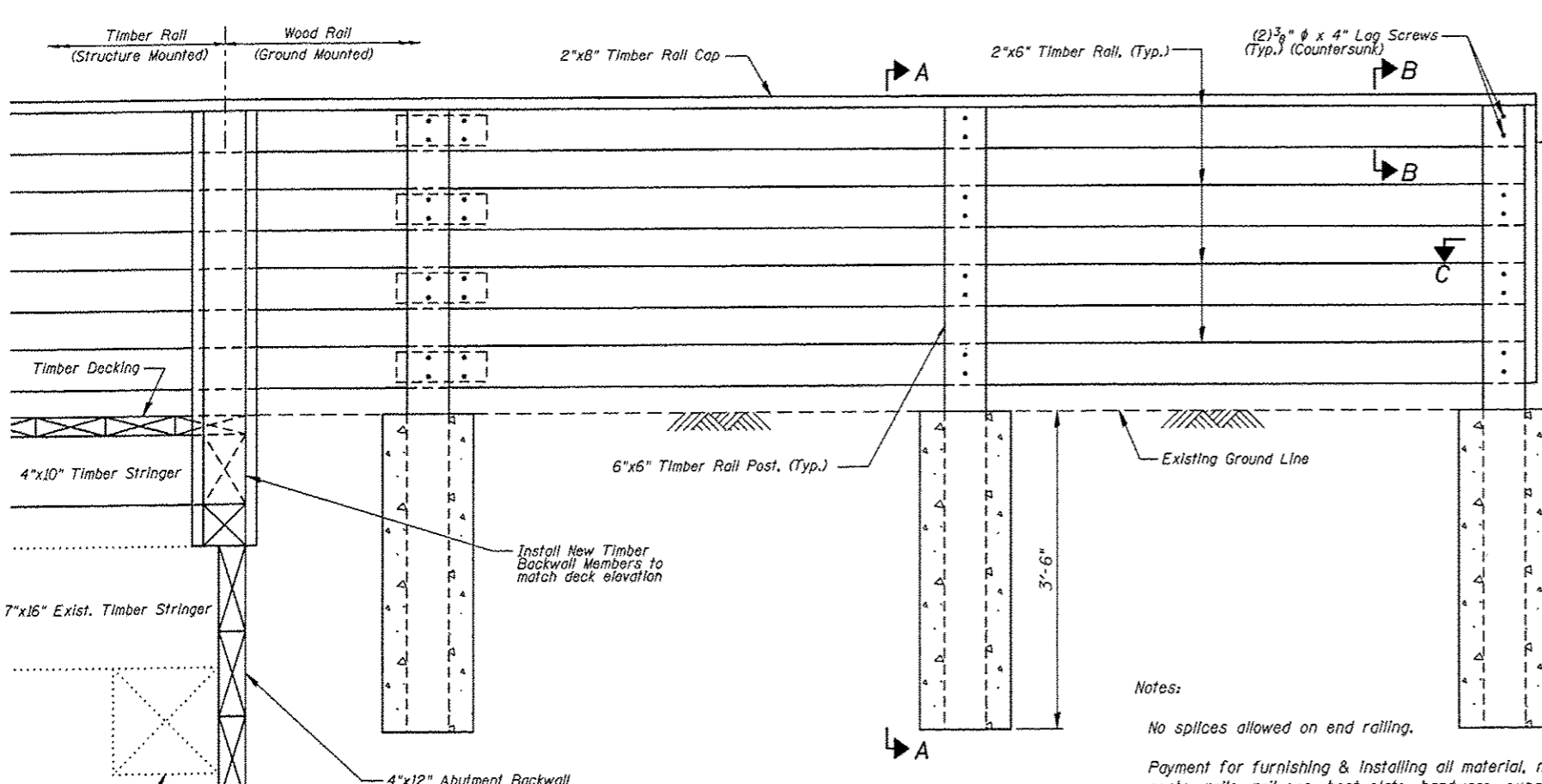
PLAN



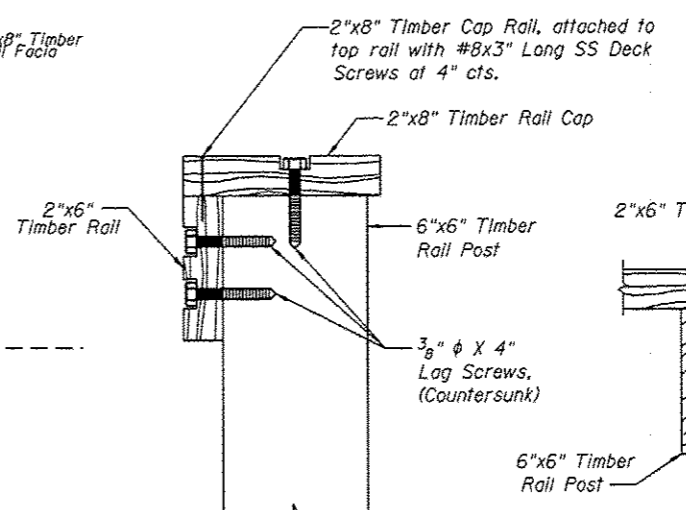
BENT PLATE



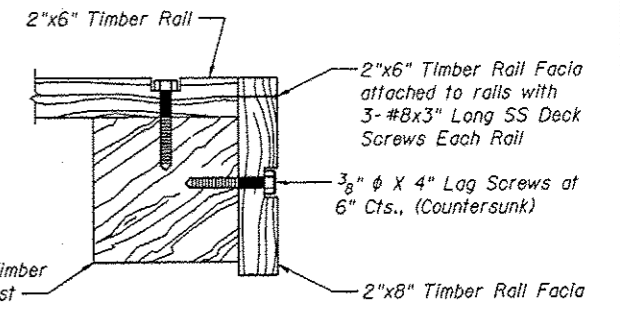
SECTION A-A



ELEVATION



SECTION B-B



SECTION C-C

Notes:

No splices allowed on end ralling.

Payment for furnishing & installing all material, necessary to construct the wood rail, including all posts, rails, rail cap, bent plate, hardware, excavation, Class SI concrete and all other appurtenances and incidental work, complete in place, will be considered completely covered by the contract unit price per foot for Wood Rail.

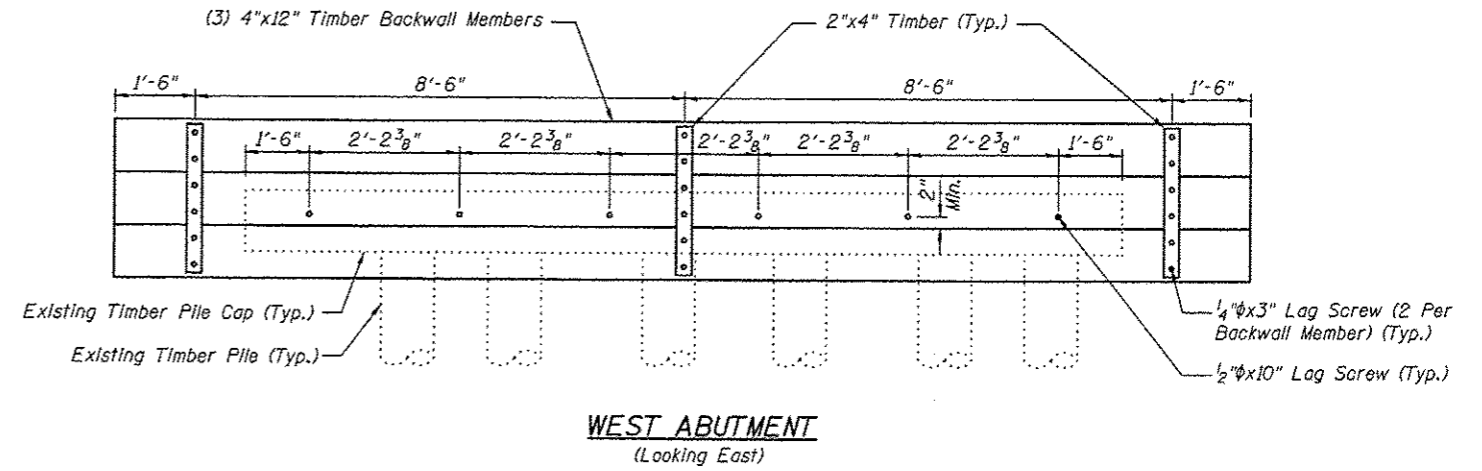
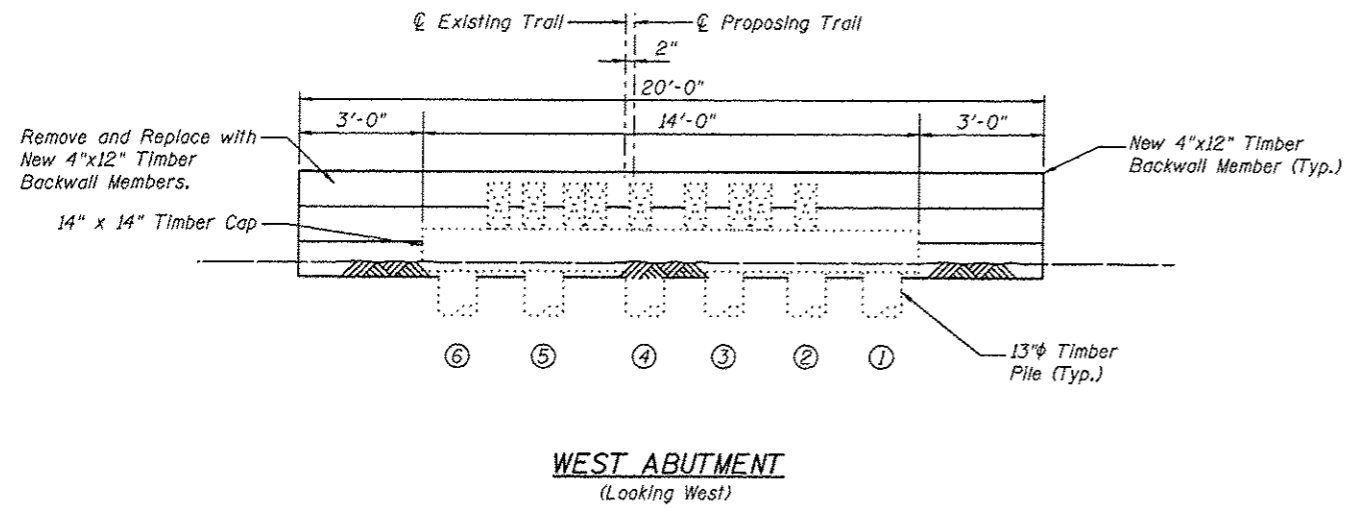
* Top of top timber rail shall be installed a minimum of 3'-6" above the finished groundline. Adjust post length according in field.

WOOD RAIL DETAILS			
Juneau Associates, Inc. P.C. <small>CONSULTING ENGINEERS AND LAND SURVEYORS</small> 2100 State Street, P.O. Box 1215 Granite City, Illinois 62040 Phone: (618) 313-1400 Fax: (618) 313-0541		GLEN CARBON HERITAGE BIKE TRAIL OVER JUDY BRANCH MADISON COUNTY STATION 227+74.04 STRUCTURE NO. 8	
REVISIONS NO. DATE BY REMARKS		SCALE: NOT TO SCALE, FOLLOW DIMENSIONS	
DSN. BY: DB DATE: 10/18/12 DWN. BY: EER DATE: 10/18/12 CHK'D: WWH DATE: 10/18/12		SHEET 214	
DGN NAME:		JOB NO. E064403 DGN. NO. OF 310 BHTS	

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F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	06-00016-00-BT	MADISON	310	215
FED. ROAD DIST. NO.	ILLINOIS		CONTRACT NO. 97433	



WEST ABUTMENT BILL OF MATERIAL

Item	Unit	Quantity
Treated Timber	F.B.M.	246

Note:

All dimensions are approximate.

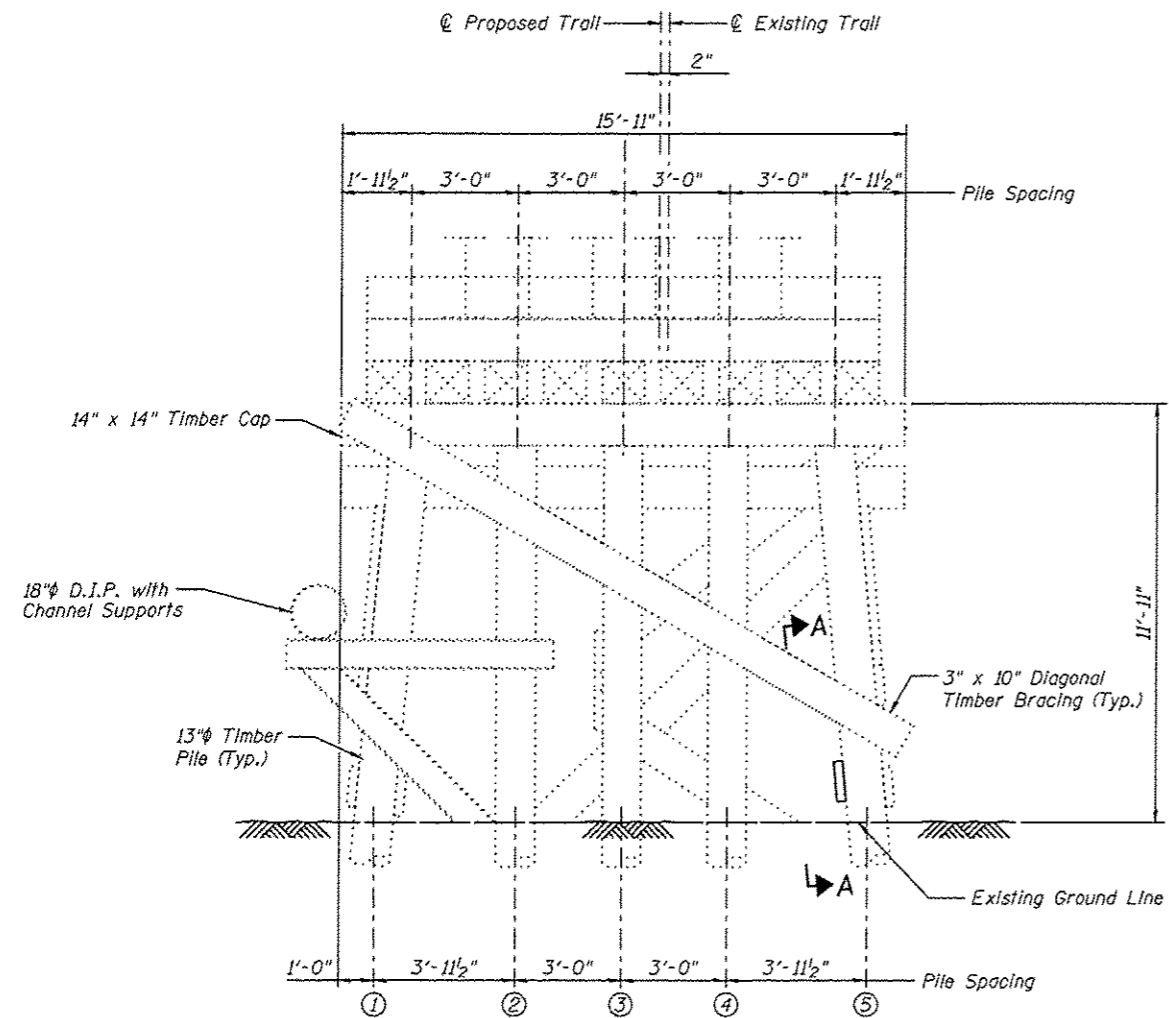
All new timber members shown shall be included in the pay item Treated Timber.

REVISIONS				SCALE: NOT TO SCALE, FOLLOW DIMENSIONS			
NO.	DATE	BY	REMARKS	DSN. BY:	DATE:	DWN. BY:	DATE:
				DB	10/18/12	EER	10/18/12
				WUH	10/18/12		

Juneau Associates, Inc. P.C.
CONSULTING ENGINEERS AND LAND SURVEYORS
2100 Steel Street, P.O. Box 1205
Spartanburg, SC 29304
Phone: (864) 581-1000
Fax: (864) 581-1001

GLEN CARBON HERITAGE
BIKE TRAIL OVER JUDY BRANCH
MADISON COUNTY
STATION 227+74.04
STRUCTURE NO. 8

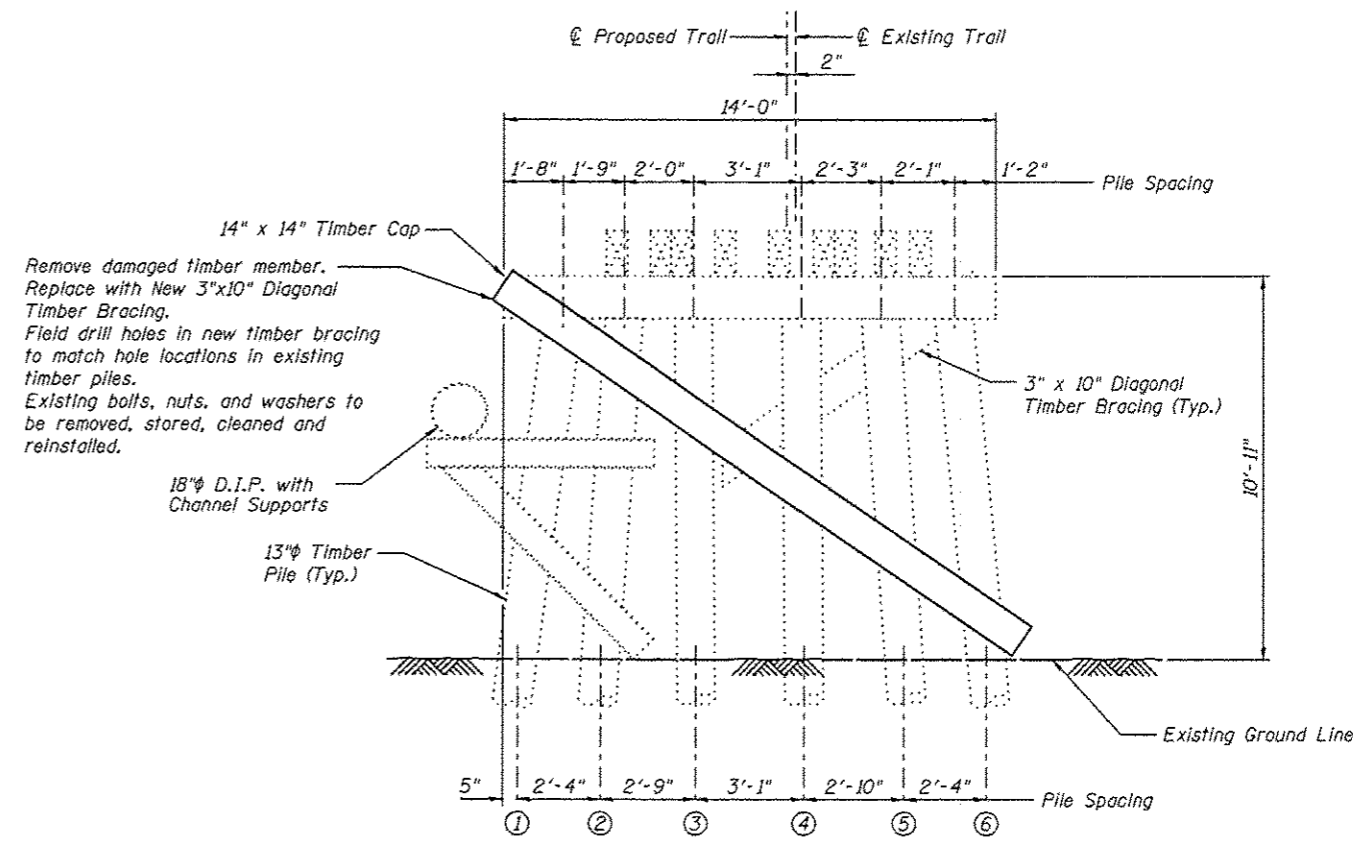
DGN NAME:		JOB NO. E064403		DGN. NO.		OF 810 SHTS	
				215			



PIER 3
(Looking East)

**PIER 3
BILL OF MATERIAL**

Item	Unit	Quantity
Treated Timber	F.B.M.	13

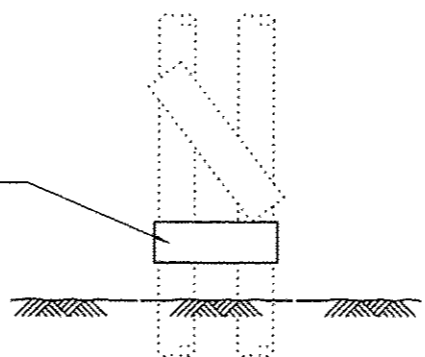


PIER 4
(Looking East)

**PIER 4
BILL OF MATERIAL**

Item	Unit	Quantity
Treated Timber	F.B.M.	50

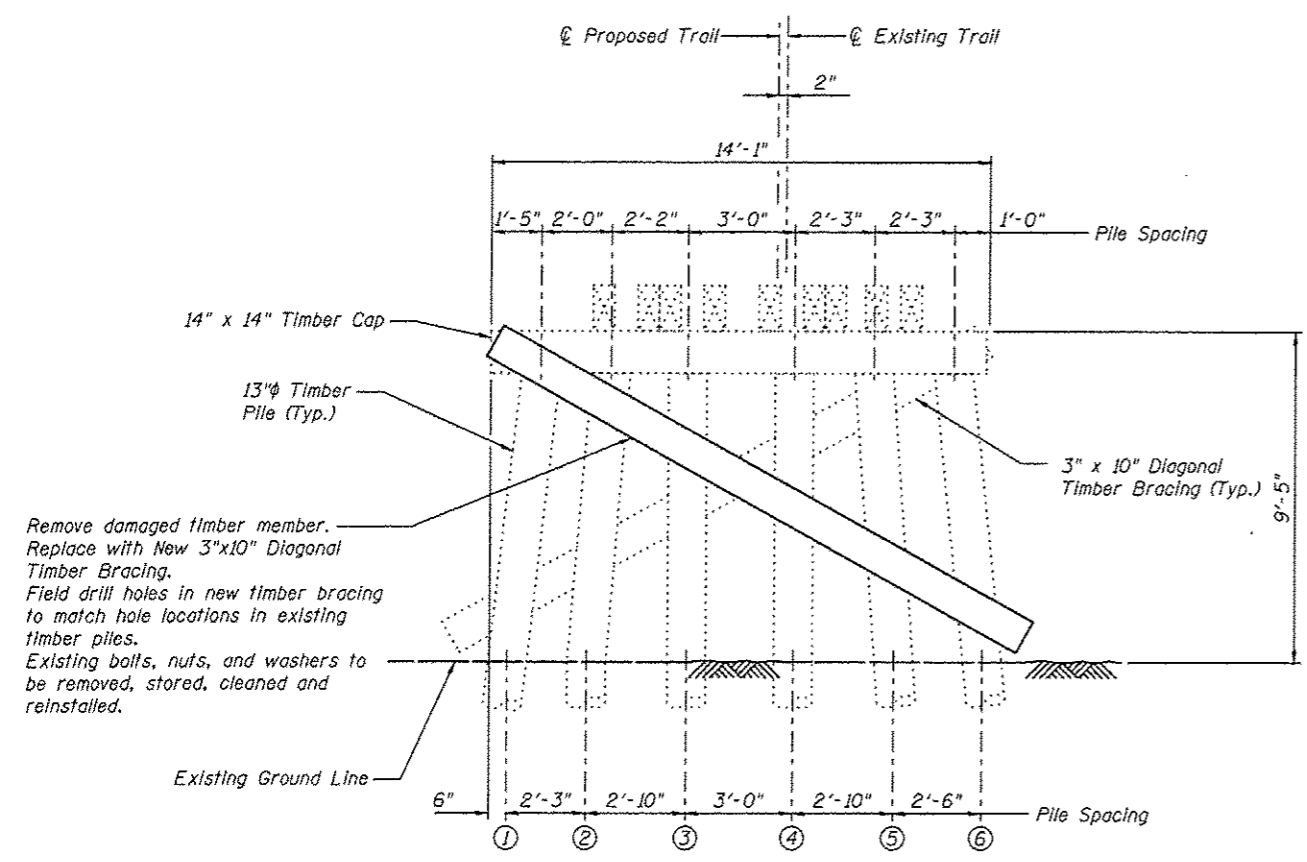
Remove damaged timber member. Replace with New 3"x10" Timber Bracing. Field drill holes in new timber bracing to match hole locations in existing timber piles. Existing bolts, nuts, and washers to be removed, stored, cleaned and reinstalled.



VIEW A-A

Note:
All dimensions are approximate.
All new timber members shown shall be included in the pay item Treated Timber.

<p>Juneau Associates, Inc. P.C. CONSULTING ENGINEERS AND LAND SURVEYORS 2100 State Street, P.O. Box 1225 Juneau, Alaska 99801 Phone: (907) 586-4200 Fax: (907) 586-4201</p>		<p>GLEN CARBON HERITAGE BIKE TRAIL OVER JUDY BRANCH MADISON COUNTY STATION 227+74.04 STRUCTURE NO. 8</p>									
PIER 3 & PIER 4 DETAILS											
<p>REVISIONS</p> <table border="1"> <thead> <tr> <th>NO.</th> <th>DATE</th> <th>BY</th> <th>REMARKS</th> </tr> </thead> <tbody> <tr> <td> </td> <td> </td> <td> </td> <td> </td> </tr> </tbody> </table>		NO.	DATE	BY	REMARKS					<p>SCALE: NOT TO SCALE, FOLLOW DIMENSIONS</p>	
NO.	DATE	BY	REMARKS								
<p>NO. DATE BY</p>		<p>DATE: 10/18/12</p>									
<p>DWN. BY: EER</p>		<p>DATE: 10/18/12</p>									
<p>CHK'D: WWH</p>		<p>DATE: 10/18/12</p>									
<p>DGN NAME:</p>		<p>JOB NO. E064403 DGN. NO.</p>									
<p>Sheet 9 of 10</p>		<p>SHEET 216 OF 310 SHEETS</p>									

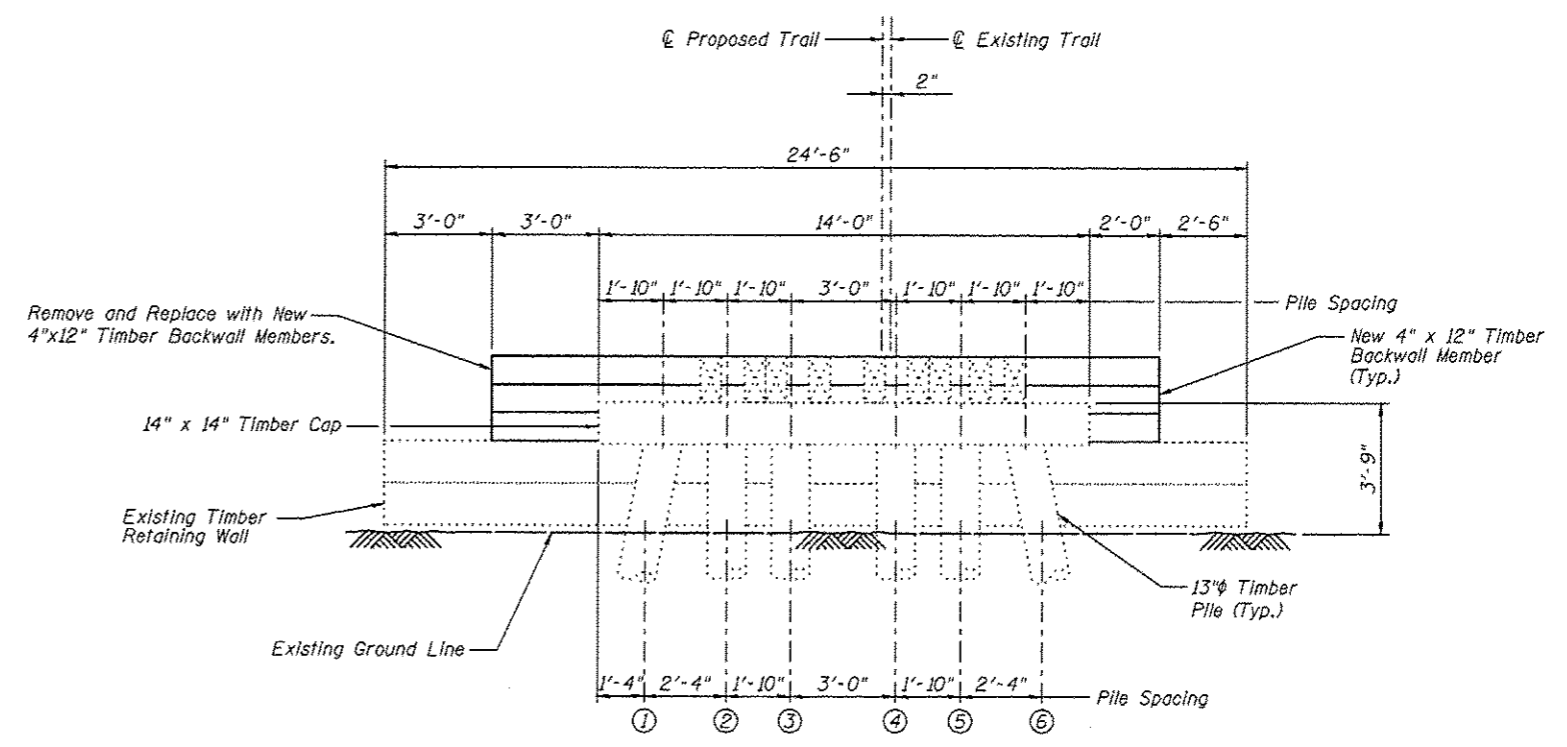


Remove damaged timber member. Replace with New 3"x10" Diagonal Timber Bracing. Field drill holes in new timber bracing to match hole locations in existing timber piles. Existing bolts, nuts, and washers to be removed, stored, cleaned and reinstalled.

PIER 5
(Looking East)

PIER 5 BILL OF MATERIAL

Item	Unit	Quantity
Treated Timber	F.B.M.	50

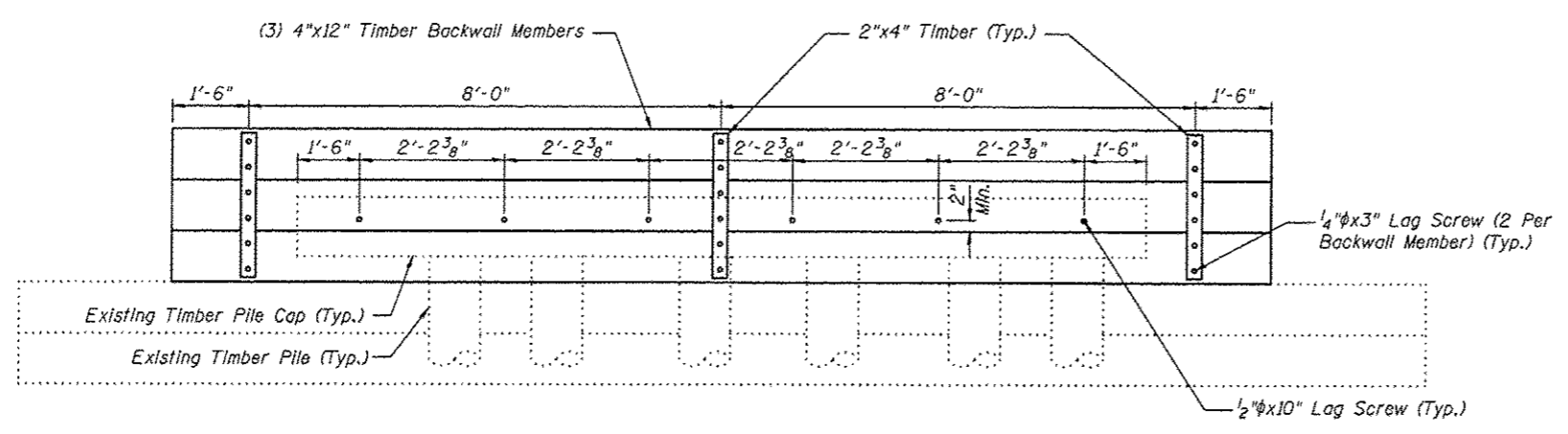


Remove and Replace with New 4"x12" Timber Backwall Members.

EAST ABUTMENT
(Looking East)

EAST ABUTMENT BILL OF MATERIAL

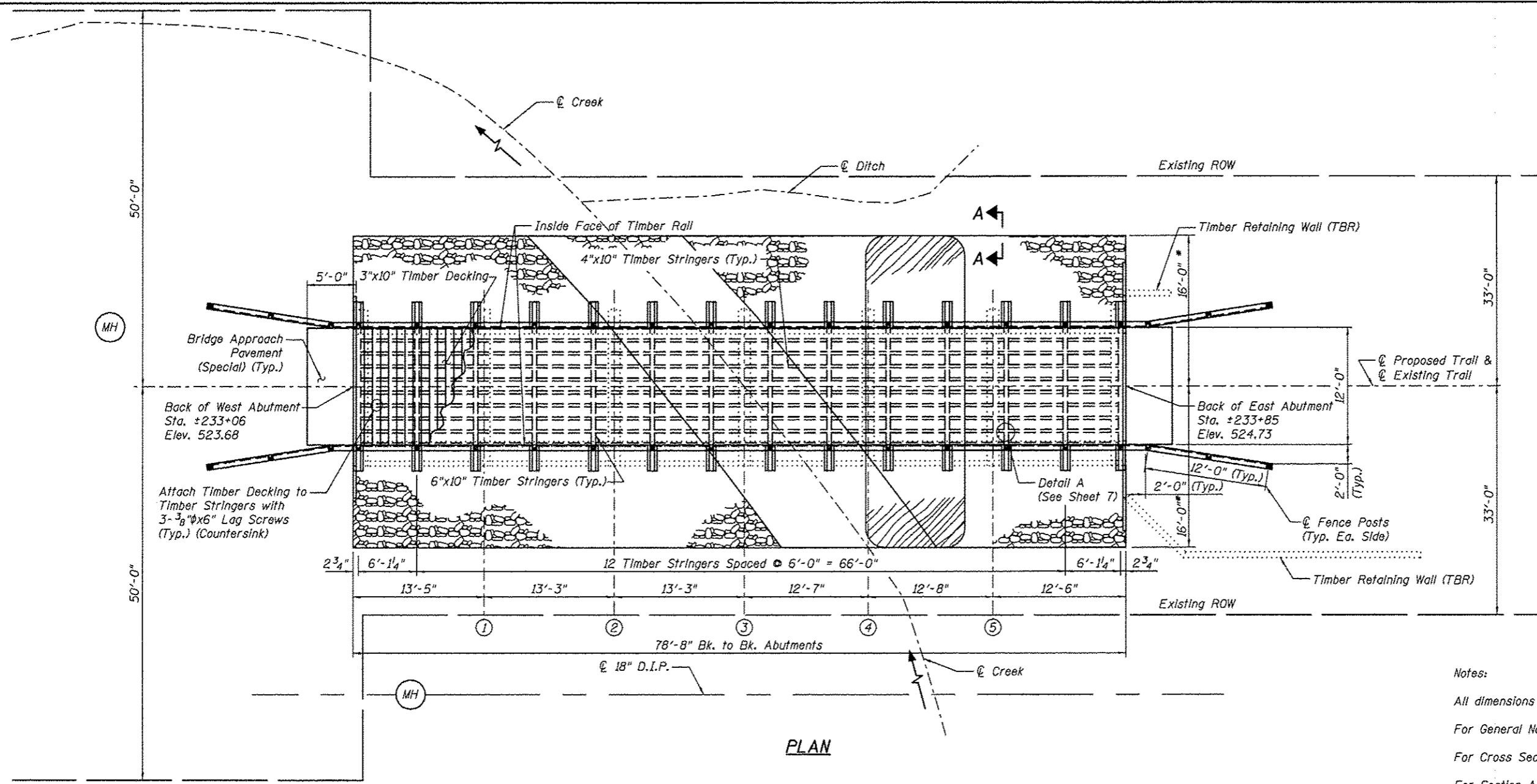
Item	Unit	Quantity
Treated Timber	F.B.M.	234



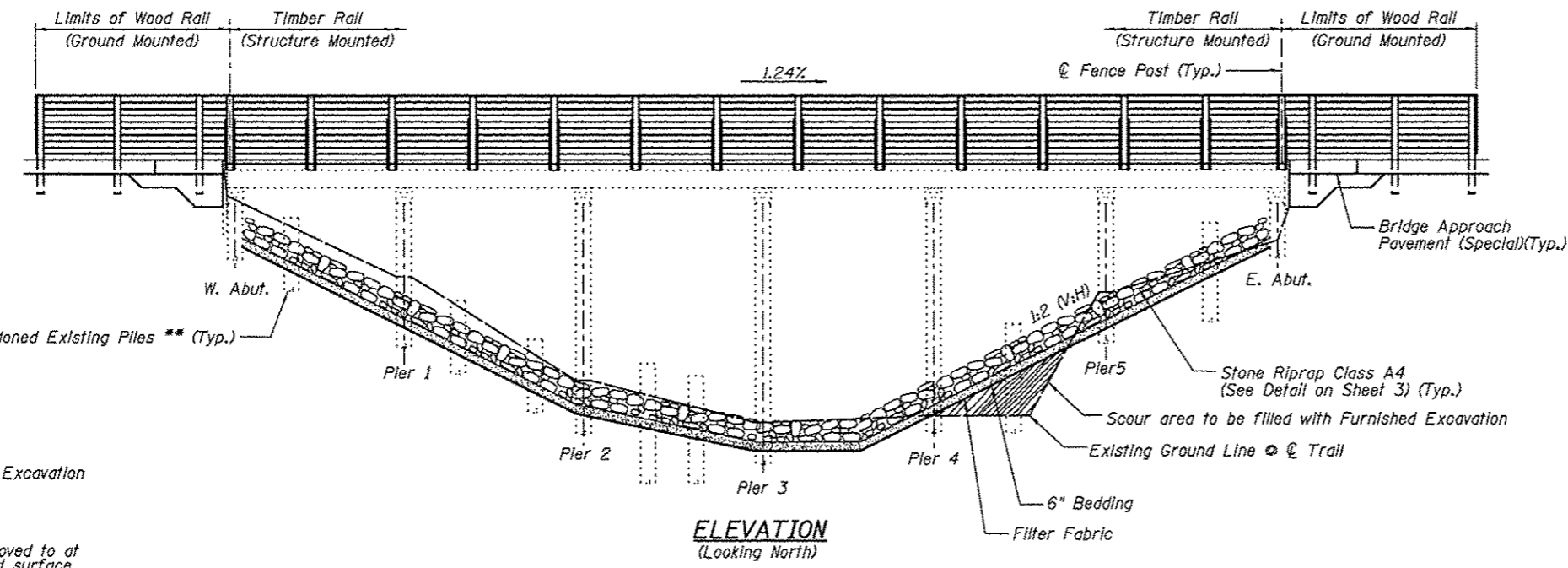
EAST ABUTMENT
(Looking West)

Notes:
All dimensions are approximate.
All new timber members shown shall be included in the pay item Treated Timber.

<p>Juneau Associates, Inc. P.C. CONSULTING ENGINEERS AND LAND SURVEYORS 210 State Street, P.O. Box 1325 Granite City, Illinois 62540 Phone: (618) 317-1600 Fax: (618) 317-9541</p>		<p>GLEN CARBON HERITAGE BIKE TRAIL OVER JUDY BRANCH MADISON COUNTY STATION 227+74.04 STRUCTURE NO. 8</p>									
<p>REVISIONS</p> <table border="1"> <thead> <tr> <th>NO.</th> <th>DATE</th> <th>BY</th> <th>REMARKS</th> </tr> </thead> <tbody> <tr> <td> </td> <td> </td> <td> </td> <td> </td> </tr> </tbody> </table>		NO.	DATE	BY	REMARKS					<p>SCALE: NOT TO SCALE, FOLLOW DIMENSIONS</p>	
NO.	DATE	BY	REMARKS								
<p>DGN NAME:</p>		<p>DSN. BY: DB</p>	<p>DATE: 10/18/12</p>								
<p>JOB NO. E064403</p>		<p>DWN. BY: EER</p>	<p>DATE: 10/18/12</p>								
<p>DGN NO.</p>		<p>CHK'D: WWH</p>	<p>DATE: 10/18/12</p>								
<p>OF 310 SHEETS</p>		<p>SHEET</p>	<p>217</p>								



PLAN



ELEVATION
(Looking North)

Notes:

All dimensions are approximate.

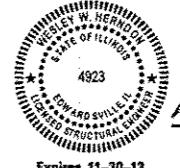
For General Notes and Total Bill of Material, see Sheet No. 2

For Cross Sections and Approach Slab Detail, see Sheet No. 3

For Section A-A and Stone Riprap Details, see Sheet No. 3

All new timber members shown shall be included in the pay item Treated Timber.

I certify to the best of knowledge, information and belief, this bridge design is structurally adequate for the design loading shown on the plans. The design is an economical one for the style of structure and complies with requirements of the current AASHTO Standard Specification for Highway Bridges.



Wesley W. Herndon
 WESLEY W. HERNDON, S.E. DATE 1/2/13

Legend

Void, to be filled with Furnished Excavation

* Limits of Stone Riprap

** Abandoned Existing Piles shall be removed to at least 1 foot below the proposed ground surface

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				DWN. BY: EER	DATE: 10/18/12
				CHK'D: WWH	DATE: 10/18/12
DGN NAME:			JOB NO. E064403	DGN. NO.	DP 310 SHTS

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F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	06-00016-00-BT	MADISON	310	219
FED. ROAD DIST. NO.	ILLINOIS	CONTRACT NO. 97433		

GENERAL NOTES

The contractor shall assume full responsibility for imposed construction loading on the existing deteriorated bridge structures prior to the repair work being performed. After the repair work is performed per the plans, all bridge structures shall be limited to an AASHTO H15 loading as shown below. The new repaired and refurbished structures shall not be loaded with a vehicle that exceeds either 15 tons of total vehicle weight or a 12 ton axle weight. Once the proposed decking is installed the contractor shall take precautions to protect the decking surface and railings from any damage caused by construction activities.

Reinforcement bars shall conform to the requirements of ASTM A706 Grade 60 and IDOT Special Provisions. Shop drawings for all reinforcement shall be submitted to the Engineer for approval prior to fabrication.

Reinforcement bars designated (E) shall be epoxy coated. See Bikeway Plans for underground utility locations. See Bikeway Plans for profile grade of trail.

Bolts and lag screws shall conform to ASTM A307. All hardware including anchors, plates, bolts, screws, nails, nuts and washers, etc. shall be stainless steel in accordance with Article 1006.17 of the IDOT Standard Specifications, unless otherwise noted.

Fence rail and Wood Rail are designed for horizontal loading of 50 lb/ft per horizontal rail only, in accordance with AASHTO Article 2.7.3

Furnishing and placement of riprap and bedding shall be in accordance with Section 281 of the latest IDOT Standard Specifications. Furnishing and placement of filter fabric shall be in accordance with Section 282 of the latest IDOT Standard Specifications.

An 18 inch diameter D.I.P. sewer is currently located on and adjacent to this structure. The 18 inch diameter sewer, owned and operated by the Village of Glen Carbon, shall remain in service through all construction activities including but not limited to: excavation, the partial removal of the structure, and replacement of the substructure and superstructure. The cost associated with construction activities around the sewer will not be paid for separately but will be included in the price bid for other items.

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

The embankment configuration shown shall be the minimum embankment that must be constructed.

Payment for furnishing all material, labor and excavation necessary to construct the concrete approach slab, including concrete, preformed joint filler and epoxy coated reinforcement bars and all other appurtenances and incidental work, complete in place, will be considered completely covered by the contract unit price per square yard for Bridge Approach Pavement (Special).

Payment for furnishing & installing all material, necessary to construct the treated timber superstructure, including all stringers, blocks, decking, posts, rails, bracing, hardware plates, angles, shims and all other appurtenances and incidental work, complete in place, will be considered completely covered by the contract unit price per foot board measure for Treated Timber.

Payment for furnishing and installing all material, necessary for new treated timber substructure members including all backwall, longitudinal and diagonal bracing, hardware and all other appurtenances and incidental work, complete in place, will be considered completely covered by the contract unit price per foot board measure for Treated Timber.

During construction operations, temporary bracing and/or shoring shall be provided wherever necessary to take care of all loads to which the structure may be subjected, including equipment and the operation of same. Such bracing and/or shoring shall be left in place as long as may be required for safety. When a temporary shoring or cribbing support system is required, the Contractor shall provide details and computations, prepared and sealed by an Illinois licensed Structural Engineer, to the Engineer for review and approval. When ever possible the support system shall be installed prior to starting the associated repair. If no system is specified, but during the course of repair the need for temporary shoring or cribbing becomes apparent or is directed by the Engineer due to a structural concern, the Contractor shall not proceed with any further removal work until an appropriate and approved support system is installed.

Treated timber shall be according to Sections 507 and 1007 of the Standard Specifications. Wood members shall be free of knots warping and twisting and visually graded No. 1 Southern Pine or No. 1 Douglas Fir - Larch, or approved equivalent.

Plan dimensions and details relative to existing structure 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.

Bolt holes in lumber shall be in accordance with Article 507.08 of the IDOT Standard Specifications.

All dimensions are shown in inches unless otherwise noted.

Lumber sizes shown are nominal dimensions in inches. Lumber shall be surfaced four sides.

Holes for all hardware shall be predrilled to avoid splitting.

All Structural Steel, including angles and plates, shall conform to AASHTO M270 in accordance with Article 1006.04 and shall be hot dipped galvanized according to AASHTO M232.

DESIGN SPECIFICATIONS

2002 AASHTO, 17th Edition
1997 AASHTO Guide Specifications for Design of Pedestrian Bridges

LOADING

Pedestrian Live Load = 85 psf
Vehicle Live Load = H-15

DESIGN STRESSES

FIELD UNITS

f'_c = 3,500 psi (Concrete)
 f_y = 36,000 psi (Structural Steel)
 f_y = 45,000 psi (Bolts, Nuts, etc.)

Design stresses for wood members shall be as specified in Section 1007 of the IDOT Standard Specifications.

TOTAL BILL OF MATERIAL

ITEM	UNIT	SUPER	SUB	TOTAL
Removal of Existing Structures, Special	Each			1
Wood Rail	Foot	58		58
Tree Removal, Acres	Acres		0.01	0.01
Channel Excavation	Cu. Yd.		100	100
Furnished Excavation	Cu. Yd.		15	15
Porous Granular Embankment, Special	Cu. Yd.		17	17
Stone Riprap, Class A4	Sq. Yd.		310	310
Filter Fabric	Sq. Yd.		310	310
Bridge Approach Pavement (Special)	Sq. Yd.	14		14
Treated Timber	F.B.M.	7904	592	8496

GENERAL NOTES

Juneau Associates, Inc. P.C.
CONSULTING ENGINEERS AND LAND SURVEYORS
2100 Shea Street, P.O. Box 1399
Glen Carbon, Illinois 62030
Phone: (618) 431-1100
Fax: (618) 431-5511

GLEN CARBON HERITAGE
BIKE TRAIL OVER JUDY
BRANCH
MADISON COUNTY
STATION 233+36.38
STRUCTURE NO. 9

REVISIONS

NO.	DATE	BY	REMARKS

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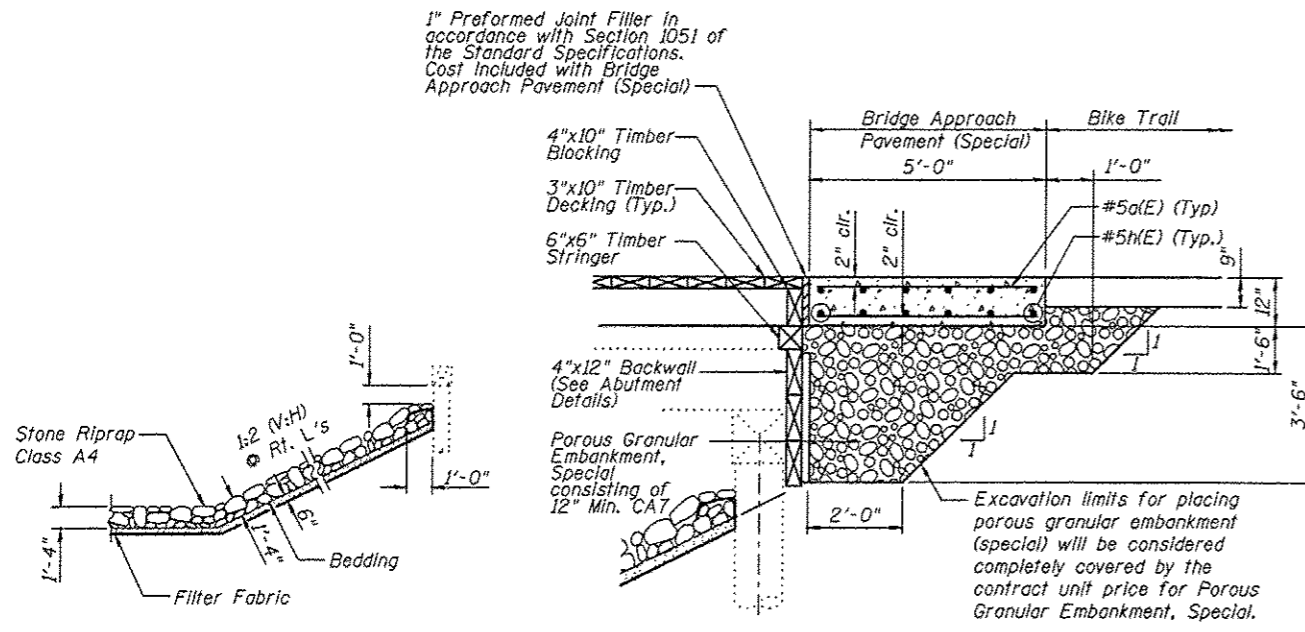
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CHK'D: WWH

DATE: 10/18/12
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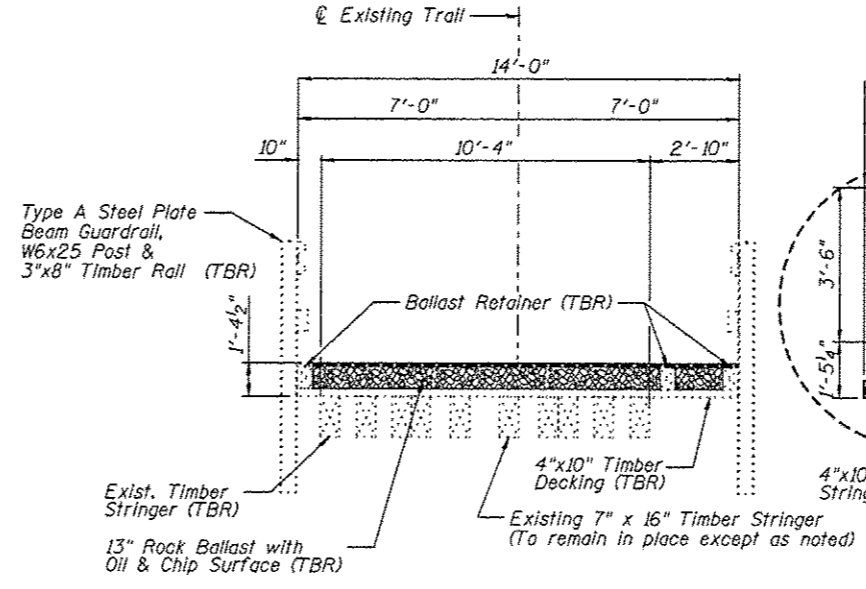
JOB NO. E064403
DGN. NO. 07 310 EHTS

219

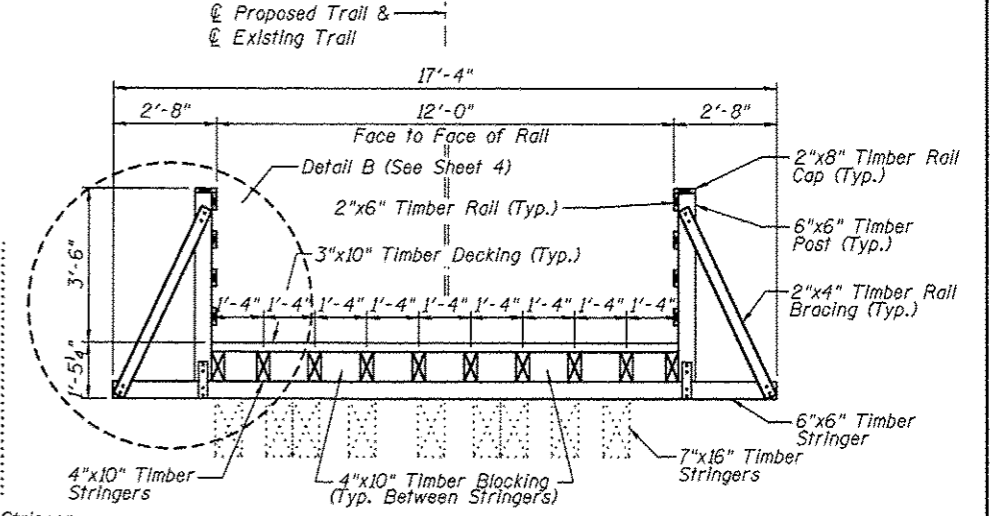


STONE RIPRAP DETAIL

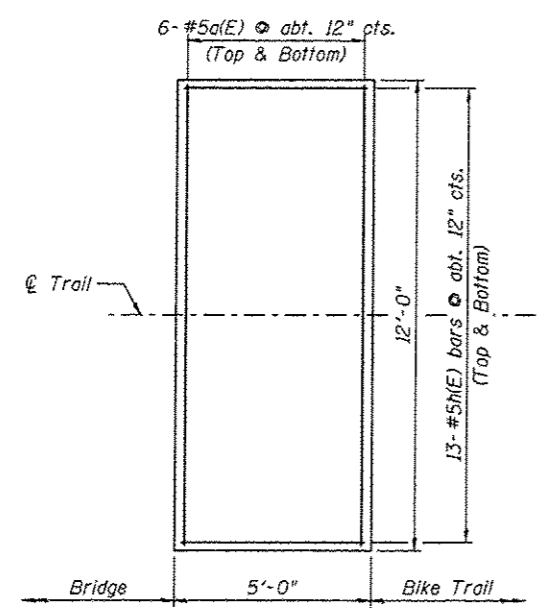
BRIDGE APPROACH PAVEMENT (SPECIAL) DETAIL



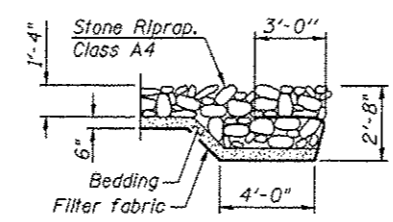
EXISTING CROSS SECTION
(Looking East)



PROPOSED CROSS SECTION
(Looking East)



BRIDGE APPROACH PAVEMENT (SPECIAL) PLAN
Note: 276 Lbs. of epoxy coated reinforcement bars



SECTION A-A

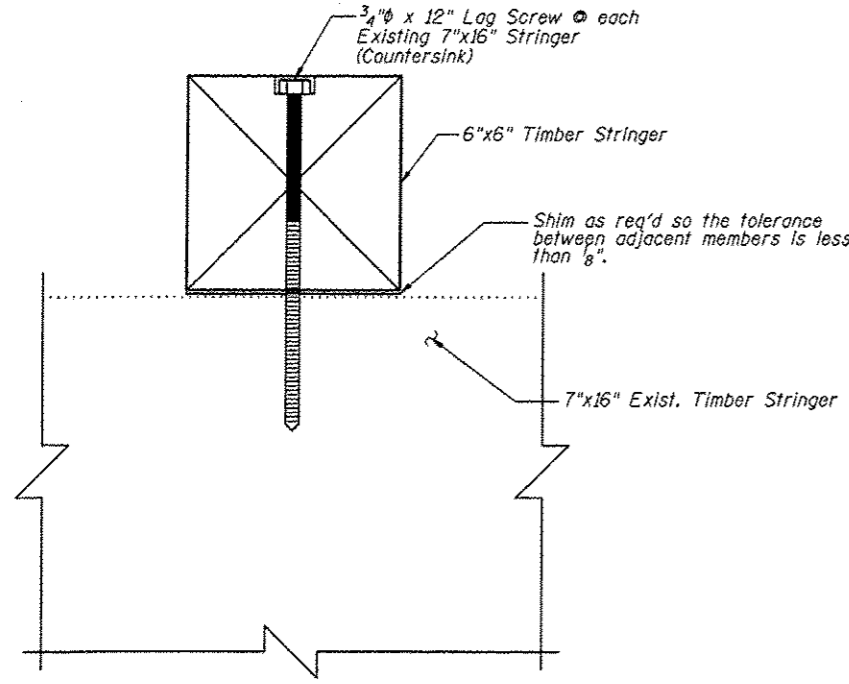
BRIDGE APPROACH BILL OF MATERIAL

Item	Unit	Quantity
Porous Granular Embankment, Special	Cu. Yd.	17

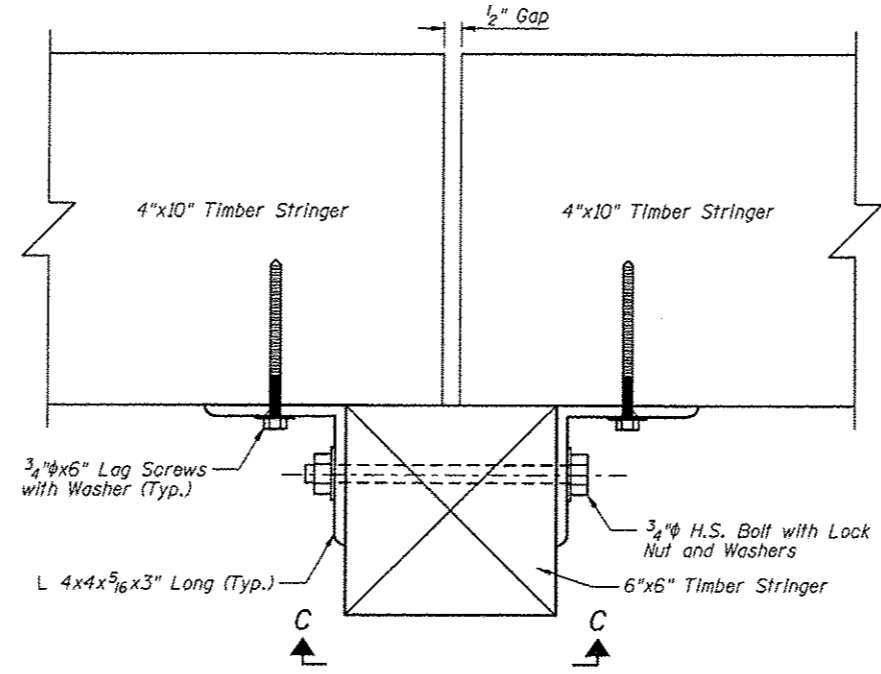
Note:
All dimensions are approximate.
For Treated Timber quantity, see Sheet No. 4
All new timber members shown shall be included in the pay item Treated Timber.
All items determined by the Engineer to have salvageable value, including the Type A Steel Plate Beam Guardrail, W6x25 Posts, 3x8 inch Timber Rail and 7x16 inch Timber Stringers in good condition, shall be transported and stored at locations and in a manner approved by the Engineer.

Juneau Associates, Inc. P.C. CONSULTING ENGINEERS AND LAND SURVEYORS 2100 State Street, P.O. Box 1325 Juneau, Alaska 99801 Phone: (907) 586-1600 Fax: (907) 586-1601		GLEN CARBON HERITAGE BIKE TRAIL OVER JUDY BRANCH MADISON COUNTY STATION 233+36.38 STRUCTURE NO. 9	
REVISIONS NO. DATE BY REMARKS		CROSS SECTIONS SCALE: NOT TO SCALE, FOLLOW DIMENSIONS	
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		DWN. BY: EER	DATE: 10/18/12
		CHK'D: WWH	DATE: 10/18/12
DGN NAME:		JOB NO. E064403	DGN. NO. OF 810 SHTS

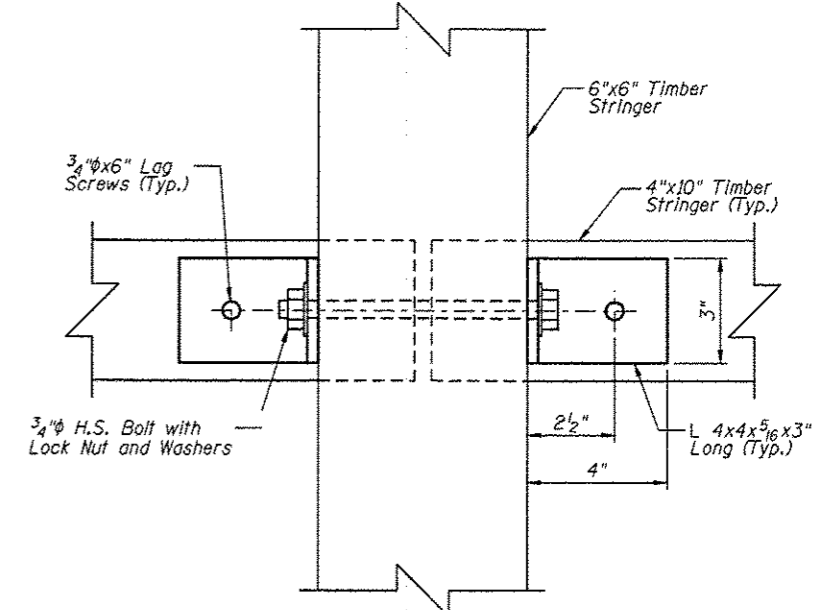
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FED. ROAD DIST. NO.	ILLINOIS		CONTRACT NO. 97433	



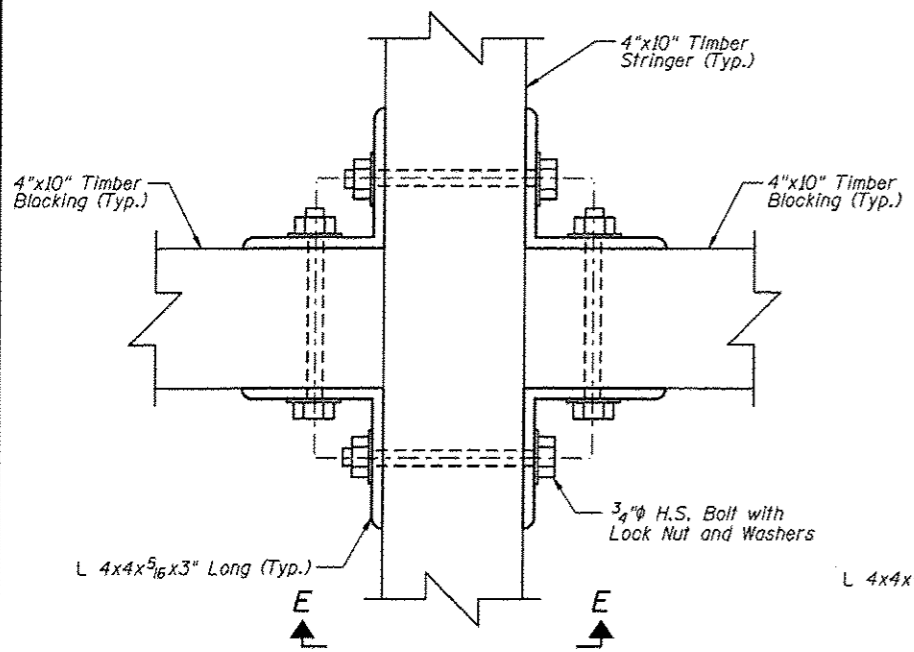
SECTION A-A



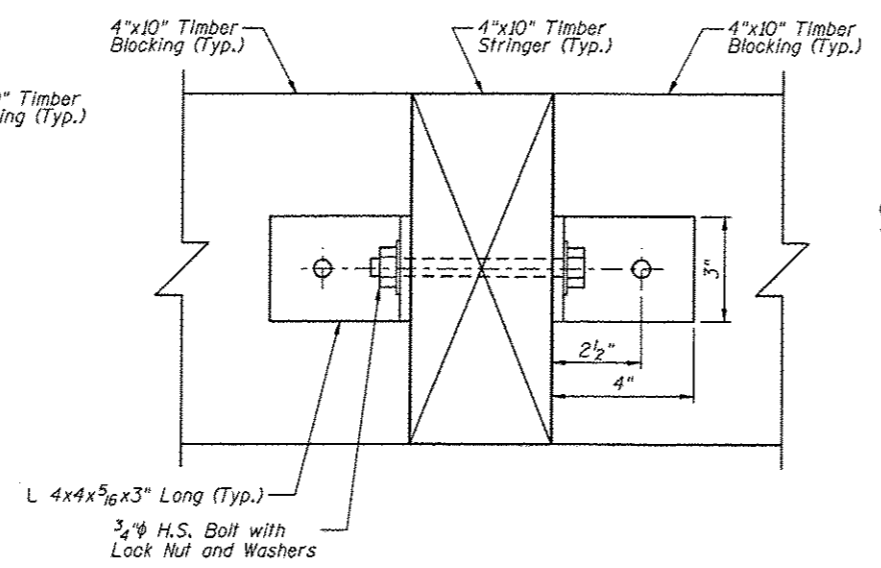
SECTION B-B
(Section G-G Similar)



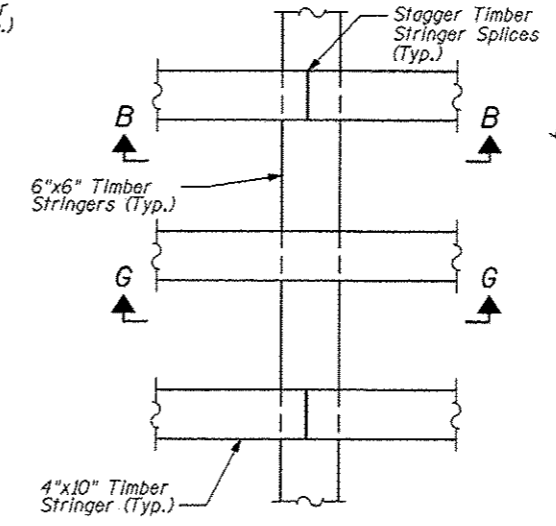
SECTION C-C



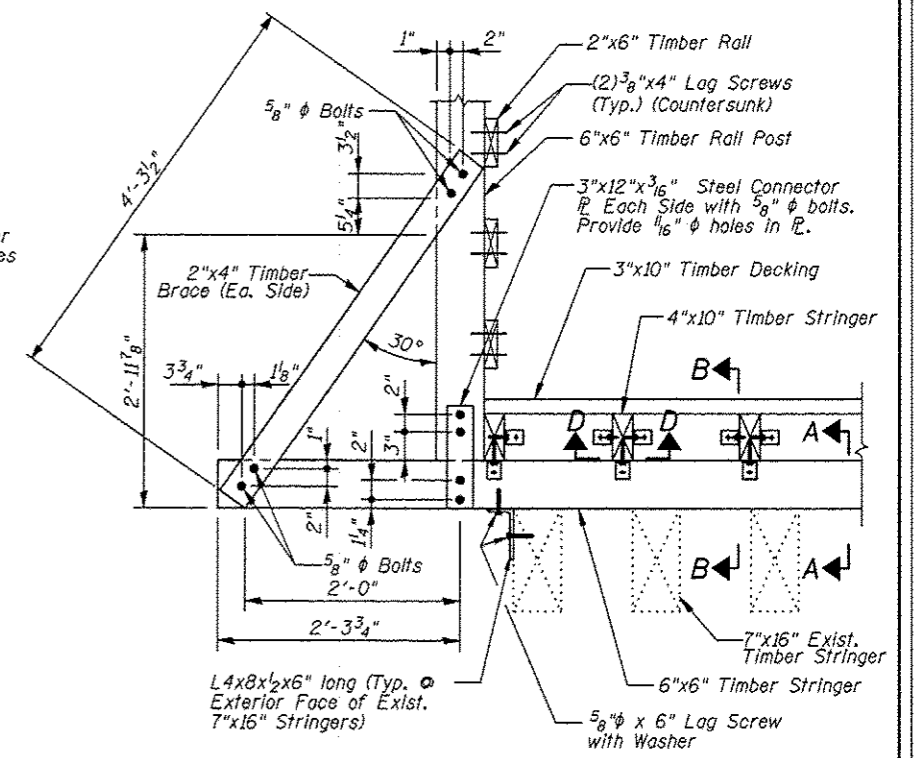
SECTION D-D



SECTION E-E



DETAIL A



DETAIL B

SUPERSTRUCTURE
BILL OF MATERIAL

Item	Unit	Quantity
Treated Timber	F.B.M.	7904

Note:

All new timber members shown shall be included in the pay item Treated Timber.

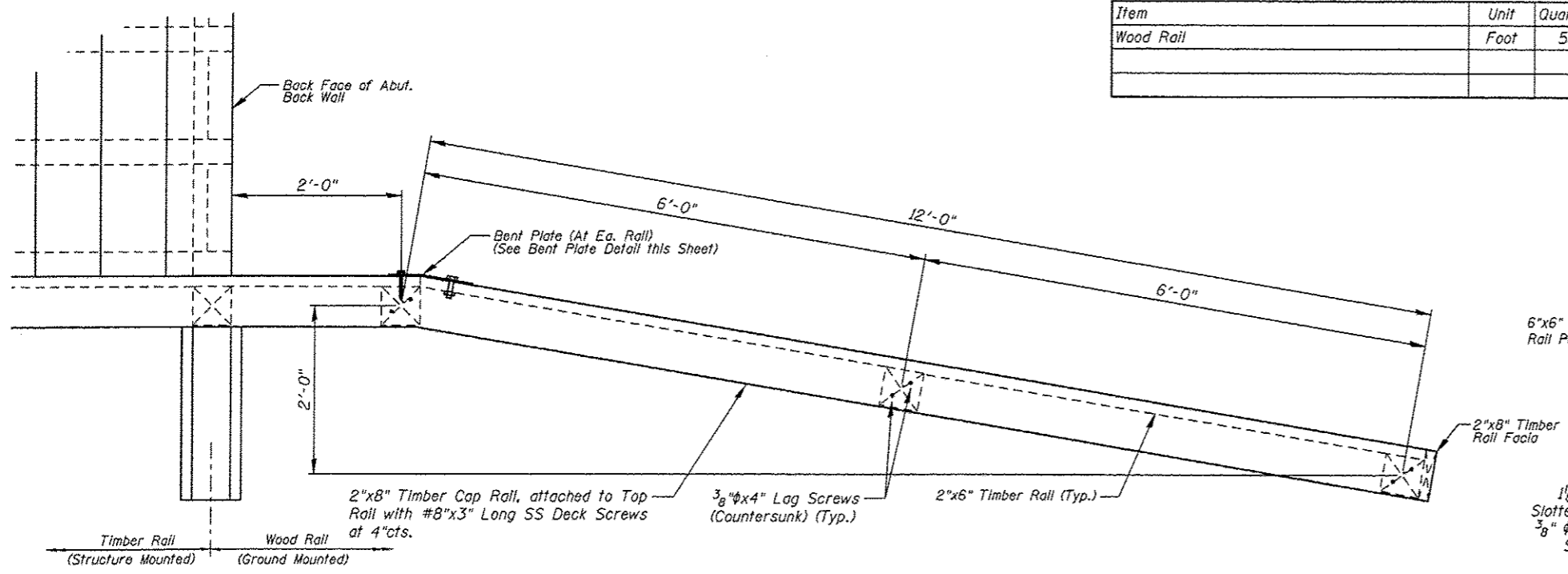
<p>Juneau Associates, Inc. P.C. CONSULTING ENGINEERS AND LAND SURVEYORS 2100 State Street, P.O. Box 1315 Juneau, Alaska 99801 Phone: (907) 586-1100 Fax: (907) 586-1101</p>		<p>GLEN CARBON HERITAGE BIKE TRAIL OVER JUDY BRANCH MADISON COUNTY STATION 233+36.38 STRUCTURE NO. 9</p>									
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<p>DGN. NO.</p>		<p>CHR'D: WWH</p>	<p>DATE: 10/18/12</p>								
<p>OF 310 BHTS</p>		<p>SHEET</p>	<p>221</p>								

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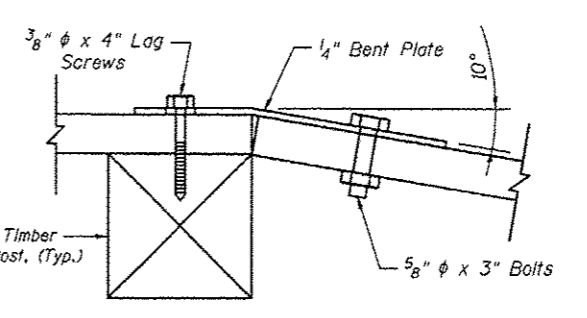
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FED. ROAD DIST. NO.	ILLINOIS	CONTRACT NO. 97433		

WOOD RAIL BILL OF MATERIAL

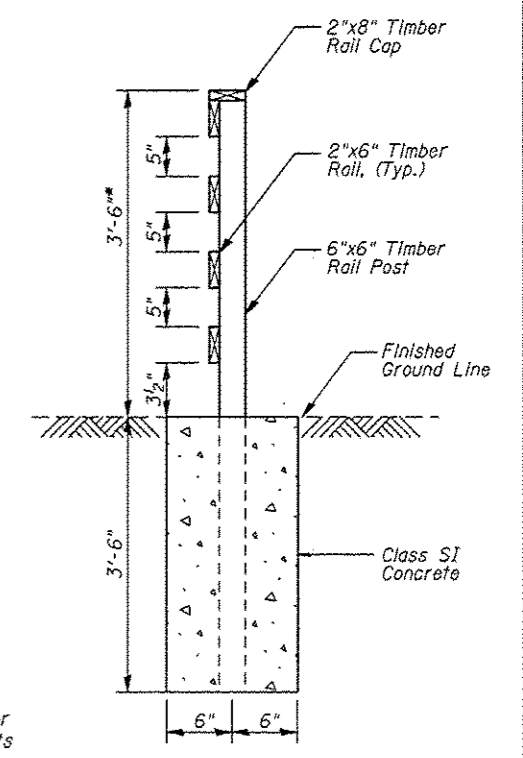
Item	Unit	Quantity
Wood Rail	Foot	58



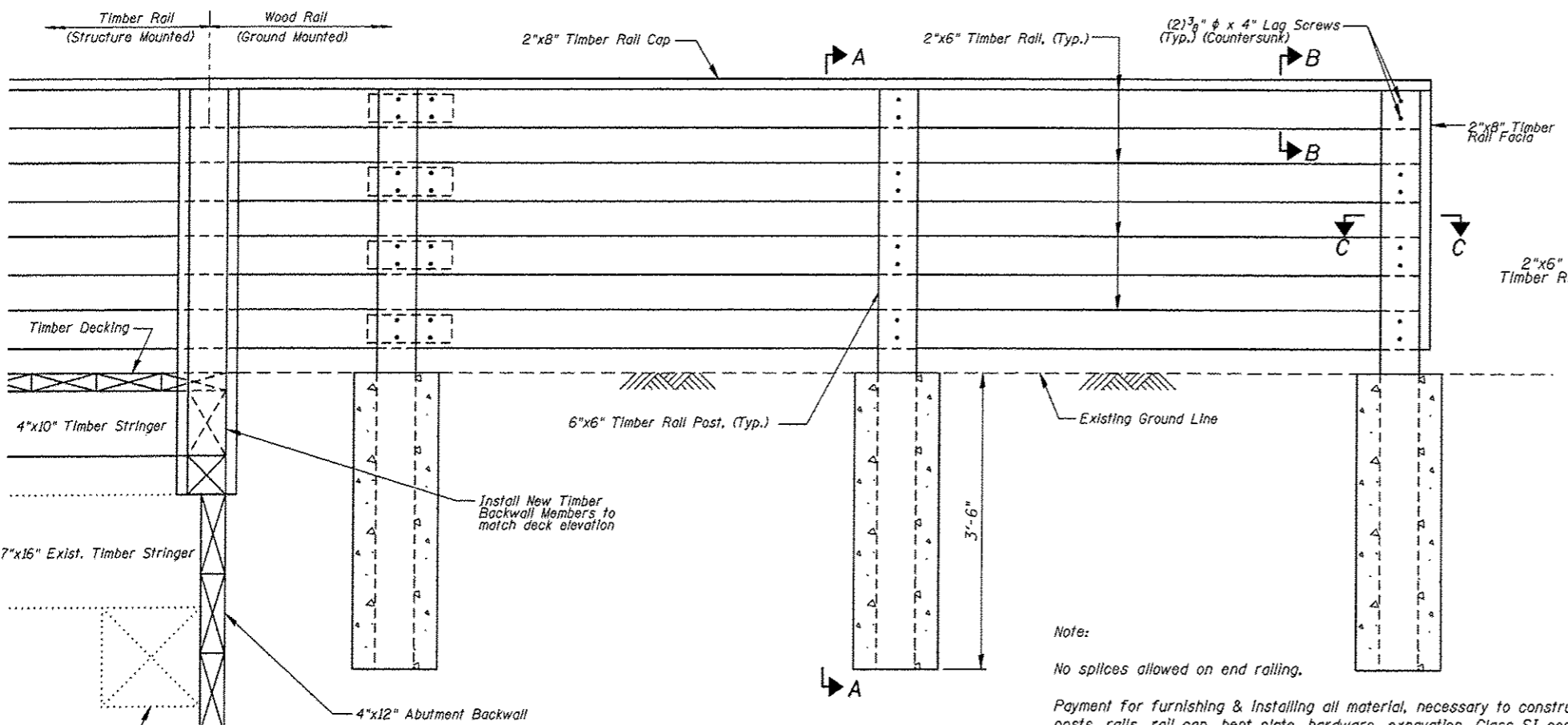
PLAN



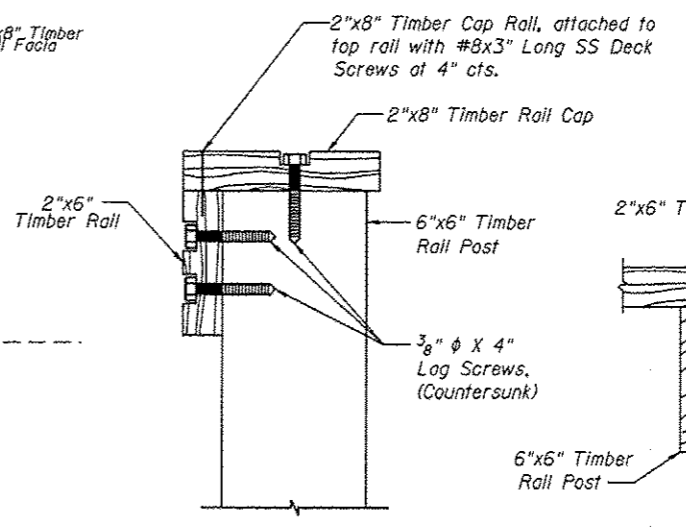
BENT PLATE



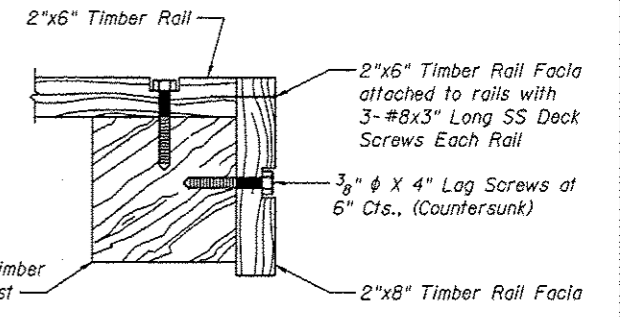
SECTION A-A



ELEVATION



SECTION B-B



SECTION C-C

Note:

No splices allowed on end railing.

Payment for furnishing & installing all material, necessary to construct the wood rail, including all posts, rails, rail cap, bent plate, hardware, excavation, Class SI concrete and all other appurtenances and incidental work, complete in place, will be considered completely covered by the contract unit price per foot for Wood Rail.

* Top of top timber rail shall be installed a minimum of 3'-6" above the finished groundline. Adjust post length according in field.

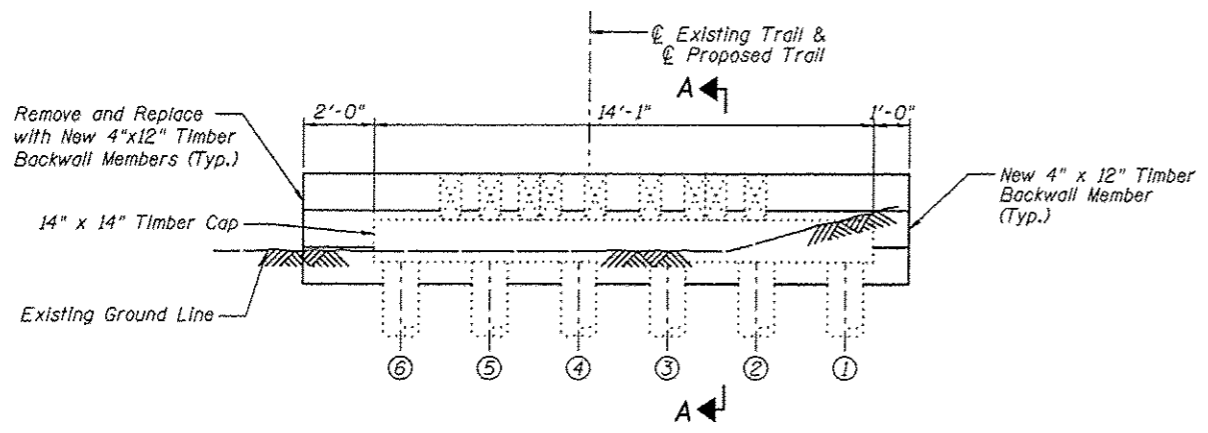
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DGN NAME:				JOB NO. E064403	DGN. NO.

Juneau Associates, Inc. P.C.
CONSULTING ENGINEERS AND LAND SURVEYORS
2100 State Street, P.O. Box 1325
Madison, IL 61702-1325
Phone: (618) 932-1100
Fax: (618) 932-5441

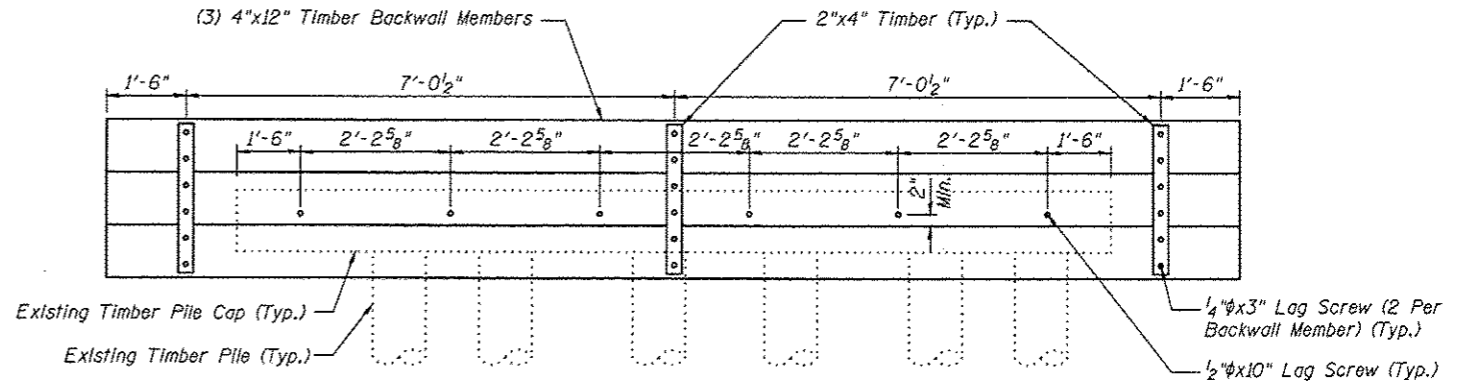
GLEN CARBON HERITAGE
BIKE TRAIL OVER JUDY BRANCH
MADISON COUNTY
STATION 233+36.38
STRUCTURE NO. 9

SHEET		222
OF 310 SHEETS		

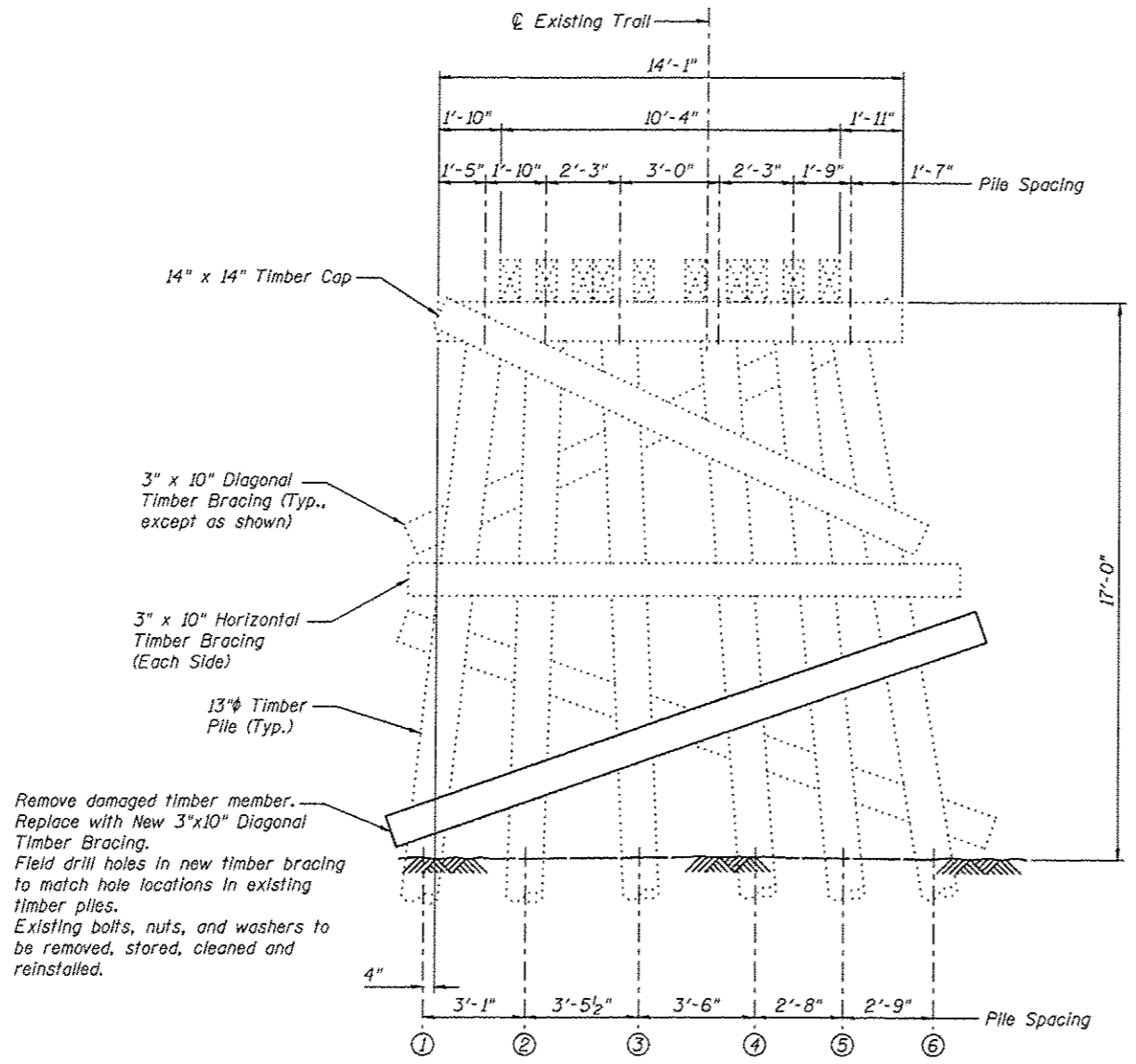
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WEST ABUTMENT
(Looking West)



WEST ABUTMENT
(Looking East)



PIER 3
(Looking West)

WEST ABUTMENT
BILL OF MATERIAL

Item	Unit	Quantity
Treated Timber	F.B.M.	211

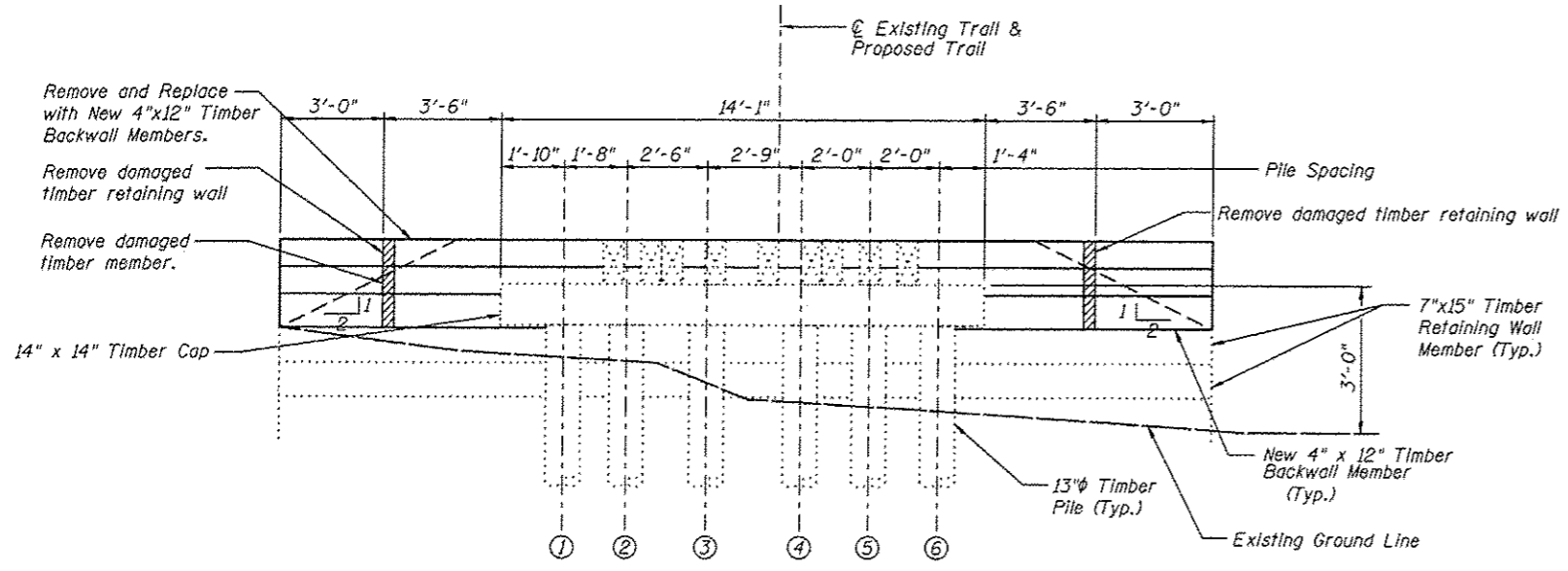
PIER 3
BILL OF MATERIAL

Item	Unit	Quantity
Treated Timber	F.B.M.	50

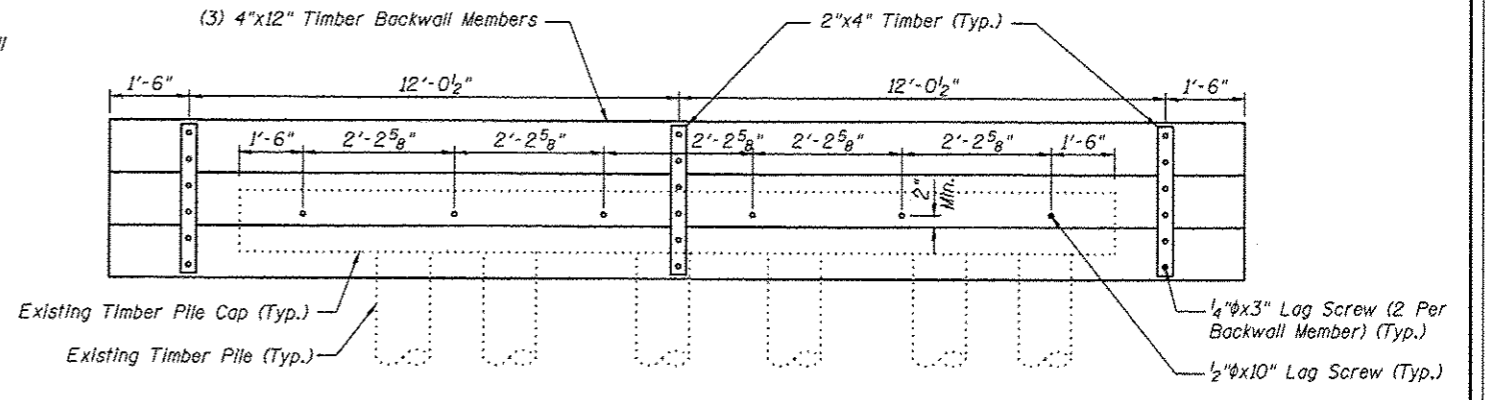
Notes:
All dimensions are approximate.
All new timber members shown shall be included in the pay item Treated Timber.

<p>Juneau Associates, Inc. P.C. CONSULTING ENGINEERS AND LAND SURVEYORS 3100 State Street, P.O. Box 1315 Granite City, Illinois 62040 Phone: (618) 651-1100 Fax: (618) 651-0911</p>		<p>GLEN CARBON HERITAGE BIKE TRAIL OVER JUDY BRANCH MADISON COUNTY STATION 233+36.38 STRUCTURE NO. 9</p>									
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<p>OF 310 EHTS</p>		<p>223</p>									

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EAST ABUTMENT
(Looking East)



EAST ABUTMENT
(Looking West)

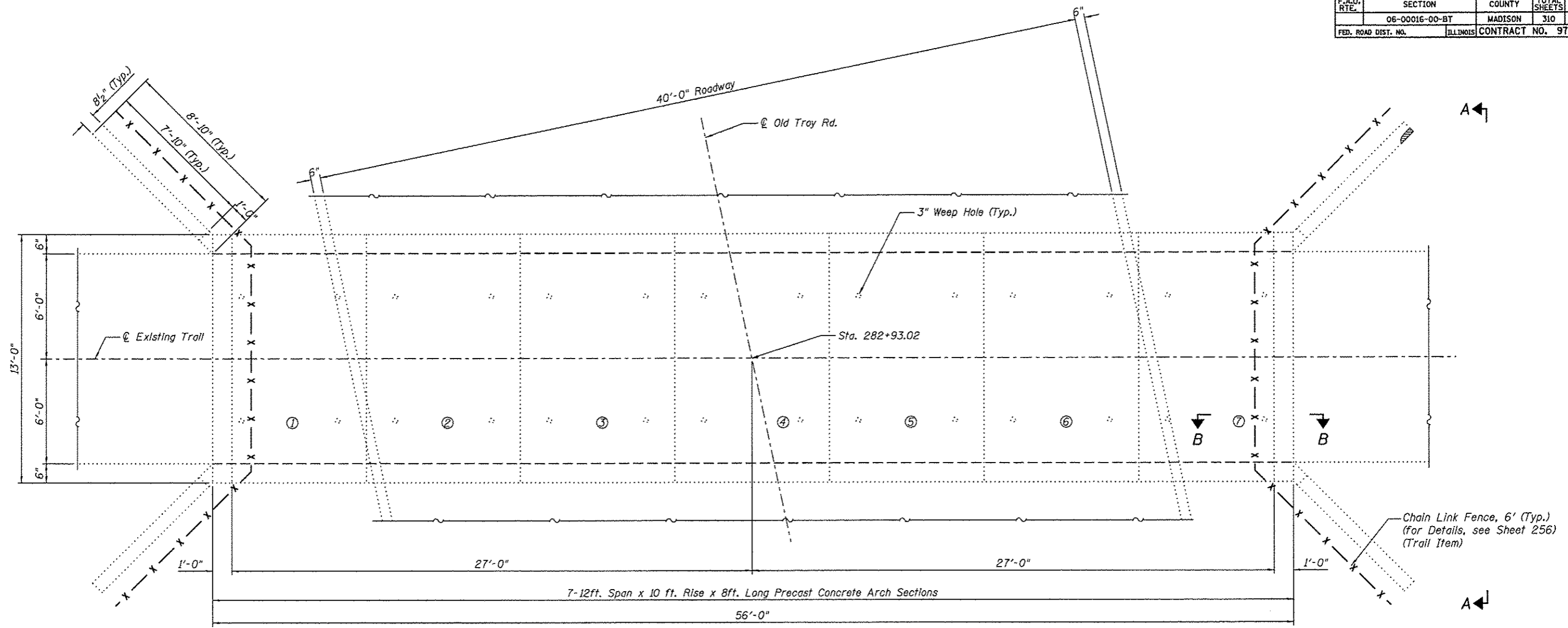
**EAST ABUTMENT
BILL OF MATERIAL**

Item	Unit	Quantity
Treated Timber	F.B.M.	331

Note:
All dimensions are approximate.
All new timber members shown shall be included in the pay item Treated Timber.

<p>Juneau Associates, Inc. P.C. CONSULTING ENGINEERS AND LAND SURVEYORS 3106 Lewis Street, P.O. Box 1303 Kenosha, WI 53141-1303 Phone: 414.333.1100 Fax: 414.333.4541</p>		<p>GLEN CARBON HERITAGE BIKE TRAIL OVER JUDY BRANCH MADISON COUNTY STATION 233+36.38 STRUCTURE NO. 9</p>									
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<p>DGN NO.</p>		<p>CHR'D: WWH</p>	<p>DATE: 10/18/12</p>								
<p>OF 810 SHEETS</p>		<p>224</p>									

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PLAN

SIGN NOTES

All traffic control signs shall be manufactured and erected in accordance with the "Manual on Uniform Traffic Control Devices for Streets and Highways" latest edition, as published by the U.S. Department of Transportation and the "Illinois Supplement to the National Manual on Uniform Traffic Control Devices" latest edition, and the "Standard Specifications for Road and Bridge Construction", latest edition, as published by the Illinois Department of Transportation; and as shown on the plans.

All dimensions of all traffic control signs shall be the minimum size shown on the above referenced manual unless otherwise stated on the plans.

Artwork to be provided by the Madison County Transit District.

Madison County Transit District shall direct the contractor as to the vertical placement of the sign on the tunnel head wall. $\frac{3}{16}$ " round holes shall be field drilled into the aluminum sign to match the final installation placement of the sign.

The sign panel must comply with IDOT Standard Specifications, Section 720.

All hardware shall be HILTI KB-TZ Expansion Anchors or an approved equal and shall be Type 304 or 316 stainless steel with a minimum embedment of $2\frac{3}{8}$ ". All nuts, and washers shall be Type 304 or 316 stainless steel.

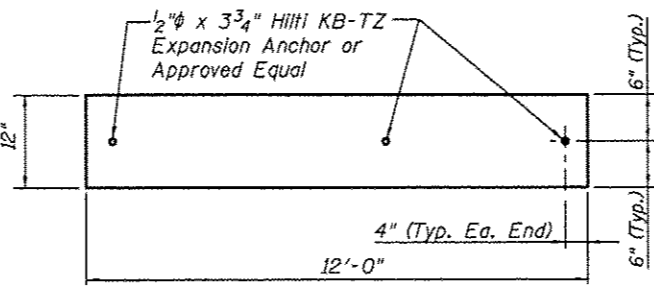
Payment for furnishing and installing all material & labor necessary to construct the signs, including the field drilling existing concrete, field drilling sign, expansion anchors and all other appurtenances and incidental work as shown, complete in place, will be considered completely covered by the contract unit price for Furnish and Erect Sign Panel per each.

GENERAL NOTES

Plan dimensions and details relative to existing structure 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.

See Bikeway Plans for underground utility locations.

See Bikeway Plans for profile grade of trail.



SIGN

(2 Required)
6" White Letters on Green Background

Notes:
All cracks are hairline unless otherwise noted.
For View A-A & B-B, see Sht. No. 2

I certify to the best of knowledge, information and belief, this pedestrian fence design is structurally adequate for the design loading shown on the plans. The design is an economical one for the style of structure and complies with requirements of the current AASHTO Standard Specification for Highway Bridges.

Wesley W. Herndon 1/2/13
WESLEY W. HERNDON, S.E. DATE

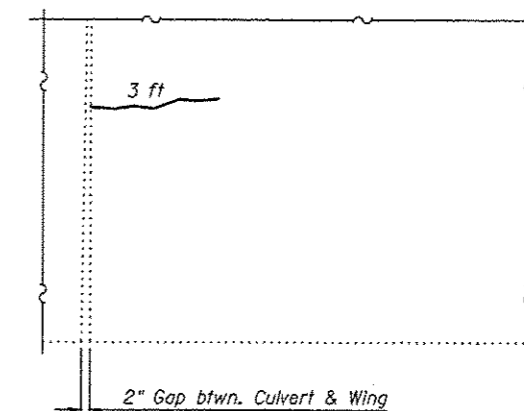
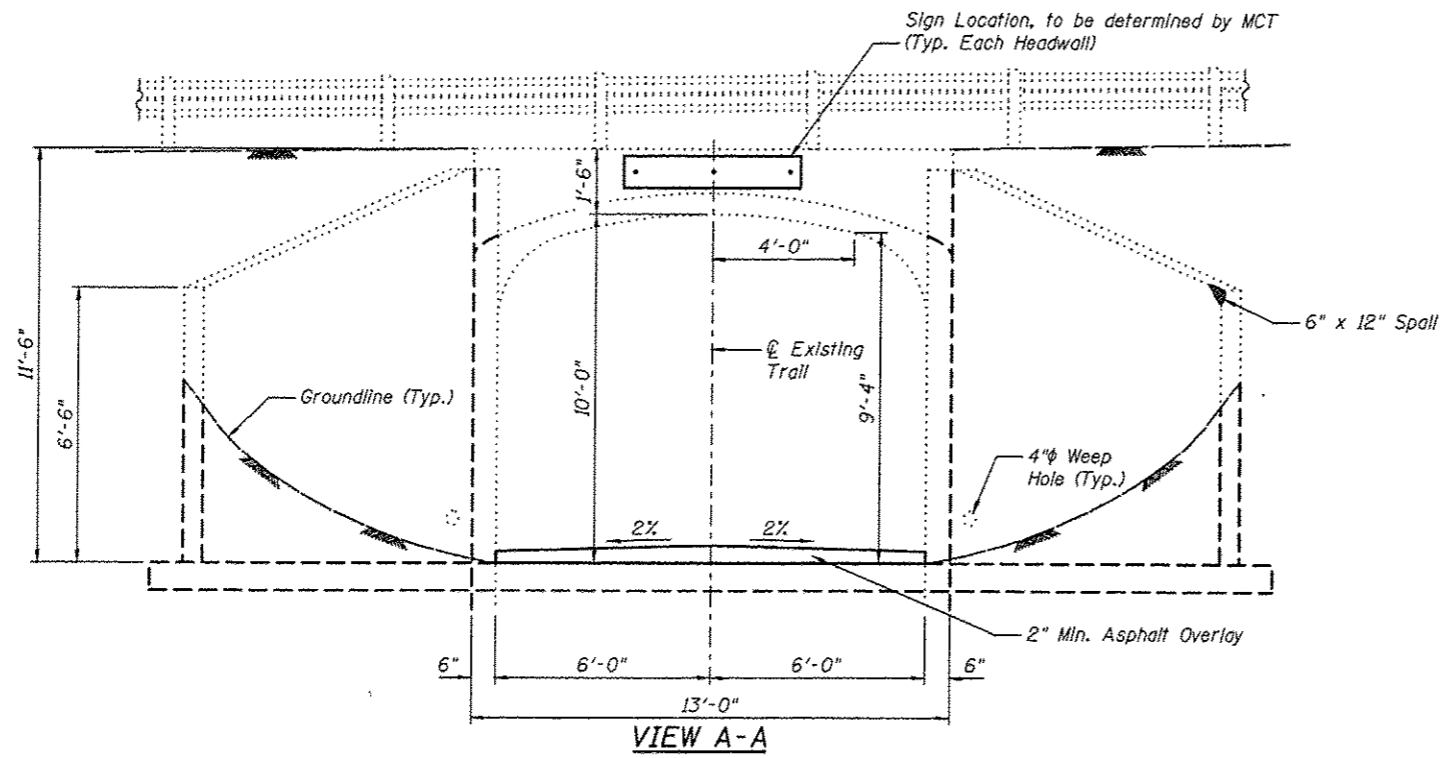
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				DWN. BY:	EER DATE: 10/18/12
				CHK'D:	WWH DATE: 10/18/12
DGN NAME:				JOB NO. E064403	DGN. NO.

PROPOSED DETAILS

Juneau Associates, Inc. P.C.
CONSULTING ENGINEERS AND LAND SURVEYORS
2100 South Street, P.O. Box 1029
Springfield, Illinois 62703
Phone: (618) 877-1100 Fax: (618) 877-1100

GLEN CARBON HERITAGE BIKE TRAIL TUNNEL UNDER OLD TROY ROAD
MADISON COUNTY
STATION 282+93.02
STRUCTURE NO. 10

Sheet 1 of 2



VIEW B-B

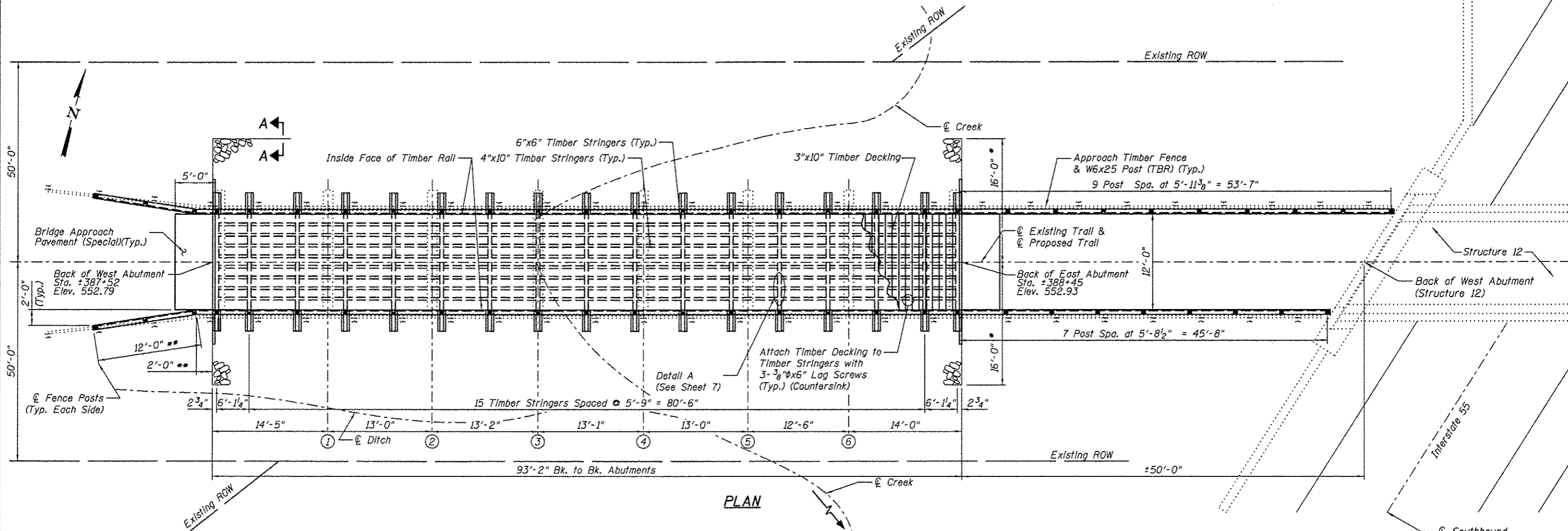
TOTAL BILL OF MATERIAL

ITEM	UNIT	TOTAL
Furnish and Erect Sign Panel	Sq Ft	24
Hot Mix Asphalt Surface Course, Mix "C", N50	Ton	10
Epoxy Crack Injection	Foot	3
Box Culverts to be Cleaned	Foot	56
Paint Removal	Sq Ft	3180

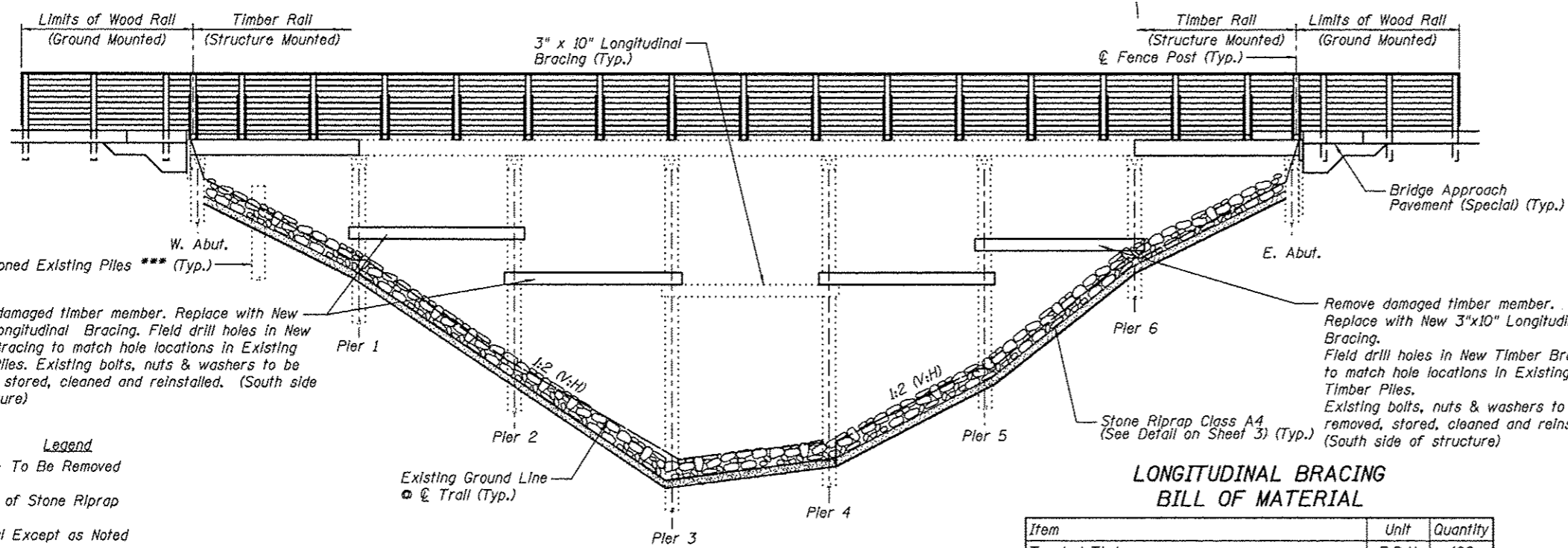
Legend
 Epoxy Crack Injection.

Notes:
 All cracks are hairline unless otherwise noted.

 Juneau Associates, Inc. P.C. CONSULTING ENGINEERS AND LAND SURVEYORS 2100 North Street, P.O. Box 1325 Knoxville, TN 37902 Phone: (615) 357-1100 Fax: (615) 357-0541		GLEN CARBON HERITAGE BIKE TRAIL TUNNEL UNDER OLD TROY ROAD MADISON COUNTY STATION 282+93.02 STRUCTURE NO. 10	
REVISIONS NO. DATE BY REMARKS		SCALE: NOT TO SCALE, FOLLOW DIMENSIONS	
DSN. BY: DB	DATE: 10/18/12	SHEET	
DWN. BY: EER	DATE: 10/18/12	226	
CHK'D: WWH	DATE: 10/18/12		
DGN NAME:	JOB NO. E064403	DGN. NO.	OF 810 SHEETS



PLAN



**LONGITUDINAL BRACING
BILL OF MATERIAL**

Item	Unit	Quantity
Treated Timber	F.B.M.	129

**ELEVATION
(Looking North)**

Note:
 All dimensions are approximate.
 For General Notes and Total Bill of Material, see Sheet No. 2
 For Cross Sections and Approach Slab Detail, see Sheet No. 3
 For Section A-A and Stone Riprap Details, see Sheet No. 3
 All new timber members shown shall be included in the pay item Treated Timber.

I certify to the best of knowledge, information and belief, this bridge design is structurally adequate for the design loading shown on the plans. The design is an economical one for the style of structure and complies with requirements of the current AASHTO Standard Specification for Highway Bridges.



Wesley W. Herndon
 WESLEY W. HERNDON, S.E. DATE 1/2/13

Remove damaged timber member. Replace with New 3"x10" Longitudinal Bracing. Field drill holes in New Timber Bracing to match hole locations in Existing Timber Piles. Existing bolts, nuts & washers to be removed, stored, cleaned and reinstalled. (South side of structure)

Remove damaged timber member. Replace with New 3"x10" Longitudinal Bracing. Field drill holes in New Timber Bracing to match hole locations in Existing Timber Piles. Existing bolts, nuts & washers to be removed, stored, cleaned and reinstalled. (South side of structure)

Legend
 TBR - To Be Removed
 * Limits of Stone Riprap
 ** Typical Except as Noted
 *** Abandoned Existing Piles shall be removed to at least 1 foot below the proposed ground surface

		PLAN & ELEVATION GLEN CARBON HERITAGE BIKE TRAIL OVER AN UNNAMED CREEK MADISON COUNTY STATION 387+75.21 STRUCTURE NO. 11	
REVISIONS NO. DATE BY REMARKS		SCALE: NOT TO SCALE, FOLLOW DIMENSIONS	
DGN NAME:		DSN BY: DB DATE: 10/18/12	SHEET 227
JOB NO. E064403		DGN NO.	OF 310 SHTS

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P.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	06-00016-00-BT	MADISON	310	228
FED. ROAD DIST. NO.	ILLINOIS	CONTRACT NO. 97433		

GENERAL NOTES

The contractor shall assume full responsibility for imposed construction loading on the existing deteriorated bridge structures prior to the repair work being performed. After the repair work is performed per the plans, all bridge structures shall be limited to an AASHTO H15 loading as shown below. The new repaired and refurbished structures shall not be loaded with a vehicle that exceeds either 15 tons of total vehicle weight or a 12 ton axle weight. Once the proposed decking is installed the contractor shall take precautions to protect the decking surface and railings from any damage caused by construction activities.

Reinforcement bars shall conform to the requirements of ASTM A706 Grade 60 and IDOT Special Provisions. Shop drawings for all reinforcement shall be submitted to the Engineer for approval prior to fabrication.

Reinforcement bars designated (E) shall be epoxy coated. See Bikeway Plans for underground utility locations. See Bikeway Plans for profile grade of trail.

Bolts and lag screws shall conform to ASTM A307. All hardware including anchors, plates, bolts, screws, nails, nuts and washers, etc. shall be stainless steel in accordance with Article 1006.17 of the IDOT Standard Specifications, unless otherwise noted.

Fence rail and Wood Rail are designed for horizontal loading of 50 lb/ft per horizontal rail only, in accordance with AASHTO Article 2.7.3

Furnishing and placement of riprap and bedding shall be in accordance with Section 281 of the latest IDOT Standard Specifications. Furnishing and placement of filter fabric shall be in accordance with Section 282 of the latest IDOT Standard Specifications.

An 18 inch diameter D.I.P. sewer is currently located on and adjacent to this structure. The 18 inch diameter sewer, owned and operated by the Village of Glen Carbon, shall remain in service through all construction activities including but not limited to: excavation, the partial removal of the structure, and replacement of the substructure and superstructure. The cost associated with construction activities around the sewer will not be paid for separately but will be included in the price bid for other items.

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

The embankment configuration shown shall be the minimum embankment that must be constructed.

Payment for furnishing all material, labor and excavation necessary to construct the concrete approach slab, including concrete, preformed joint filler and epoxy coated reinforcement bars and all other appurtenances and incidental work, complete in place, will be considered completely covered by the contract unit price per square yard for Bridge Approach Pavement (Special).

Payment for furnishing & installing all material, necessary to construct the treated timber superstructure, including all stringers, blocks, decking, posts, rails, bracing, hardware plates, angles, shims and all other appurtenances and incidental work, complete in place, will be considered completely covered by the contract unit price per foot board measure for Treated Timber.

Payment for furnishing and installing all material, necessary for new treated timber substructure members including all backwall, pier cap, longitudinal and diagonal bracing, hardware and all other appurtenances and incidental work, complete in place, will be considered completely covered by the contract unit price per foot board measure for Treated Timber.

During construction operations, temporary bracing and/or shoring shall be provided wherever necessary to take care of all loads to which the structure may be subjected, including equipment and the operation of same. Such bracing and/or shoring shall be left in place as long may be required for safety. When a temporary shoring or cribbing support system is required, the Contractor shall provide details and computations, prepared and sealed by an Illinois licensed Structural Engineer, to the Engineer for review and approval. When ever possible the support system shall be installed prior to starting the associated repair. If no system is specified, but during the course of repair the need for temporary shoring or cribbing becomes apparent or is directed by the Engineer due to a structural concern, the Contractor shall not proceed with any further removal work until an appropriate and approved support system is installed.

Treated timber shall be according to Sections 507 and 1007 of the Standard Specifications. Wood members shall be free of knots warping and twisting and visually graded No. 1 Southern Pine or No. 1 Douglas Fir - Larch, or approved equivalent.

Plan dimensions and details relative to existing structure 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.

Ball holes in lumber shall be in accordance with Article 507.08 of the IDOT Standard Specifications.

All dimensions are shown in inches unless otherwise noted.

Lumber sizes shown are nominal dimensions in inches. Lumber shall be surfaced four sides.

Holes for all hardware shall be predrilled to avoid splitting.

All Structural Steel, including angles and plates, shall conform to AASHTO M270 in accordance with Article 1006.04 and shall be hot dipped galvanized according to AASHTO M232.

DESIGN SPECIFICATIONS

2002 AASHTO, 17th Edition
1997 AASHTO Guide Specifications for Design of Pedestrian Bridges

LOADING

Pedestrian Live Load = 85 psf
Vehicle Live Load = H-15

DESIGN STRESSES


FIELD UNITS

f'c = 3,500 psi (Concrete)
fy = 36,000 psi (Structural Steel)
fy = 45,000 psi (Bolts, Nuts, etc.)
Design stresses for wood members shall be as specified in Section 1007 of the IDOT Standard Specifications.

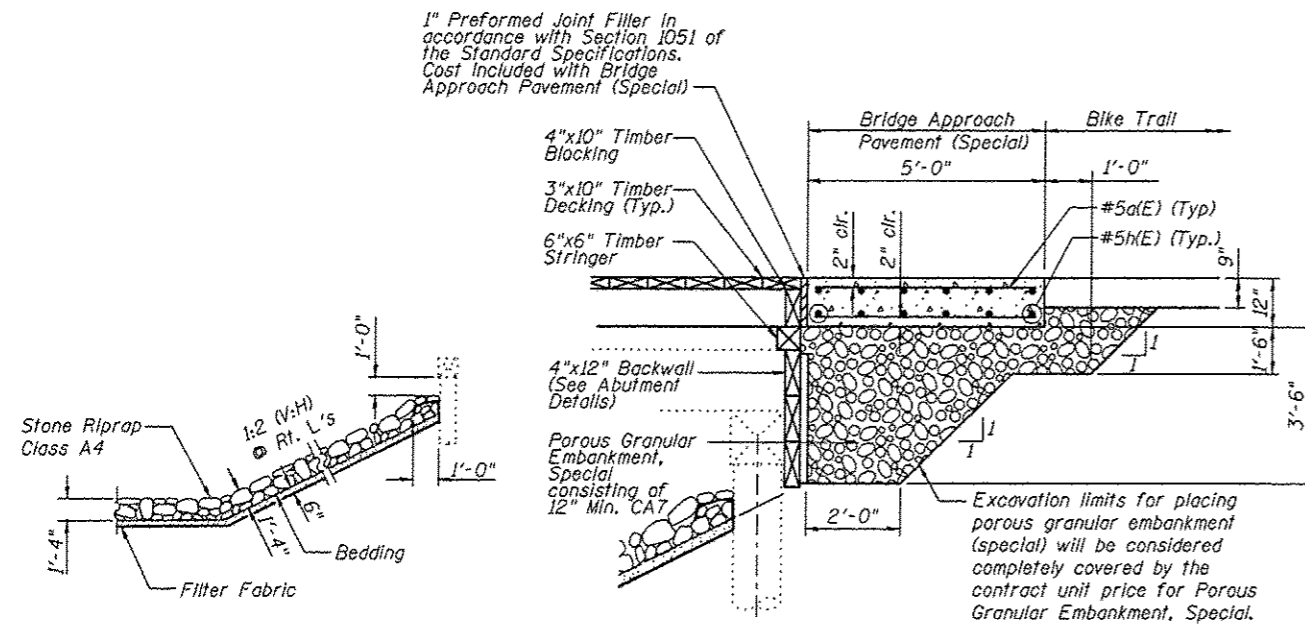
TOTAL BILL OF MATERIAL

ITEM	UNIT	SUPER	SUB	TOTAL
Removal of Existing Structures, Special	Each			1
Wood Rail	Foot	58		58
Tree Removal, Acres	Acres		0.01	0.01
Channel Excavation	Cu. Yd.		190	190
Porous Granular Embankment, Special	Cu. Yd.		17	17
Stone Riprap, Class A4	Sq. Yd.		370	370
Filter Fabric	Sq. Yd.		370	370
Bridge Approach Pavement (Special)	Sq. Yd.	14		14
Concrete Encasement	Cu. Yd.		1.0	1.0
Treated Timber	F.B.M.	9675	1012	10687
Stainless Steel Bands	Foot		59	59

* Concrete Encasement quantity has been increased to account for hidden deficiencies

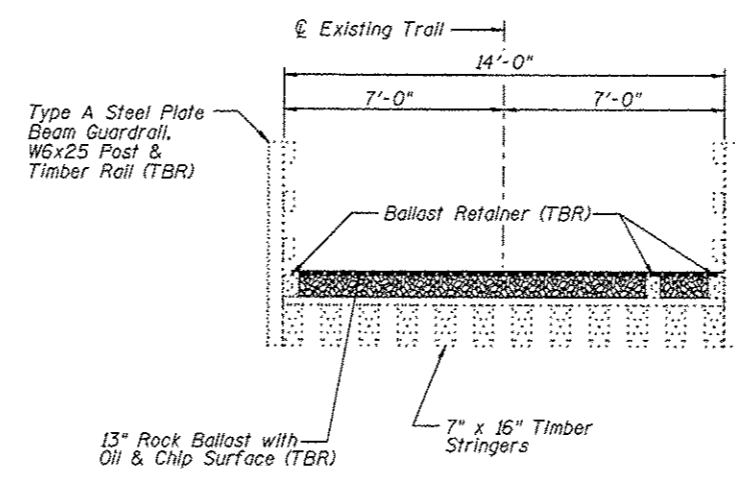
 JunEAU Associates, Inc. P.C. CONSULTING ENGINEERS AND LAND SURVEYORS 2100 State Street, P.O. Box 1225 Granite City, Illinois 62040 Phone: (618) 581-1100 Fax: (618) 581-5541		GLEN CARBON HERITAGE BIKE TRAIL OVER AN UNNAMED CREEK MADISON COUNTY STATION 387+75.21 STRUCTURE NO. 11									
REVISIONS <table border="1"> <thead> <tr> <th>NO.</th> <th>DATE</th> <th>BY</th> <th>REMARKS</th> </tr> </thead> <tbody> <tr> <td> </td> <td> </td> <td> </td> <td> </td> </tr> </tbody> </table>		NO.	DATE	BY	REMARKS					SCALE: NOT TO SCALE, FOLLOW DIMENSIONS	
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Sheet 2 of 10		JOB NO. E064403	EDGN. NO. OF 310 SHEETS 228								

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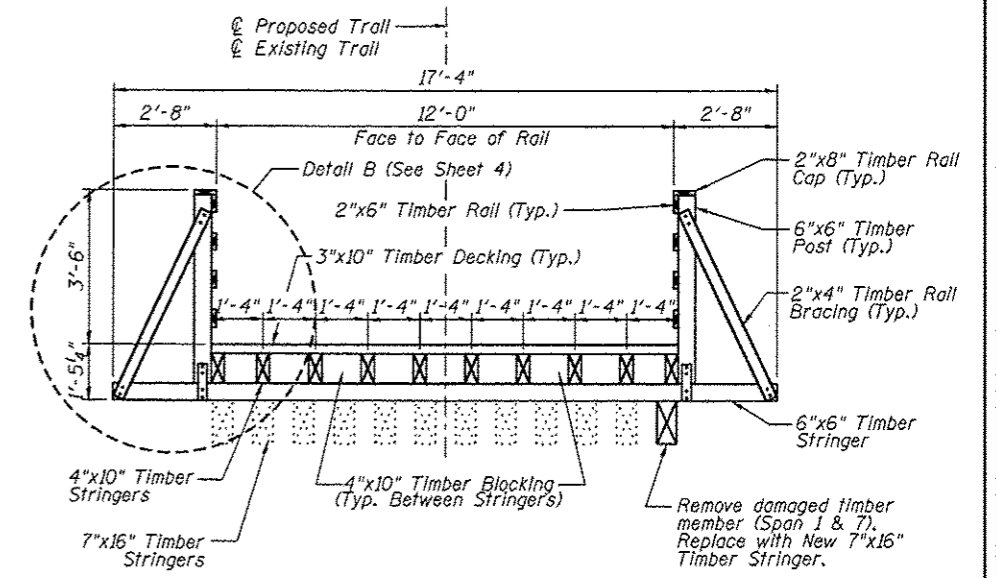


STONE RIPRAP DETAIL

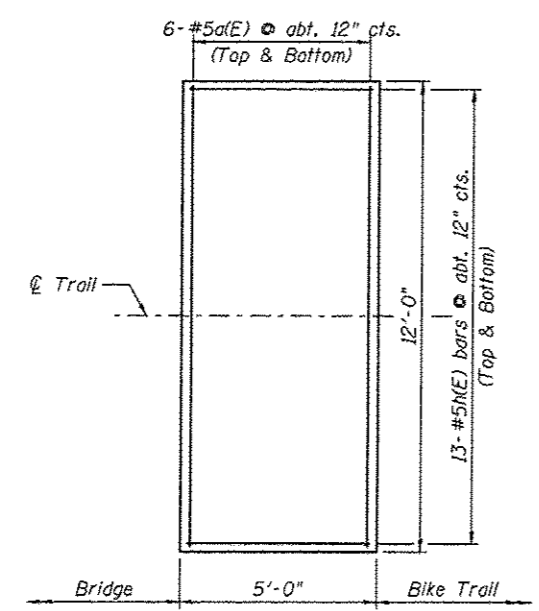
BRIDGE APPROACH PAVEMENT (SPECIAL) DETAIL



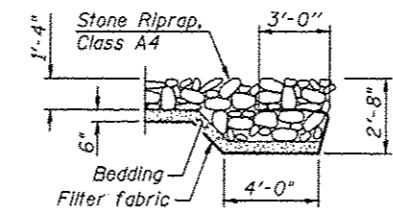
EXISTING CROSS SECTION
(Looking East)



PROPOSED CROSS SECTION
(Looking East)



BRIDGE APPROACH PAVEMENT (SPECIAL) PLAN
Note: 276 Lbs. of epoxy coated reinforcement bars



SECTION A-A

**BRIDGE APPROACH
BILL OF MATERIAL**

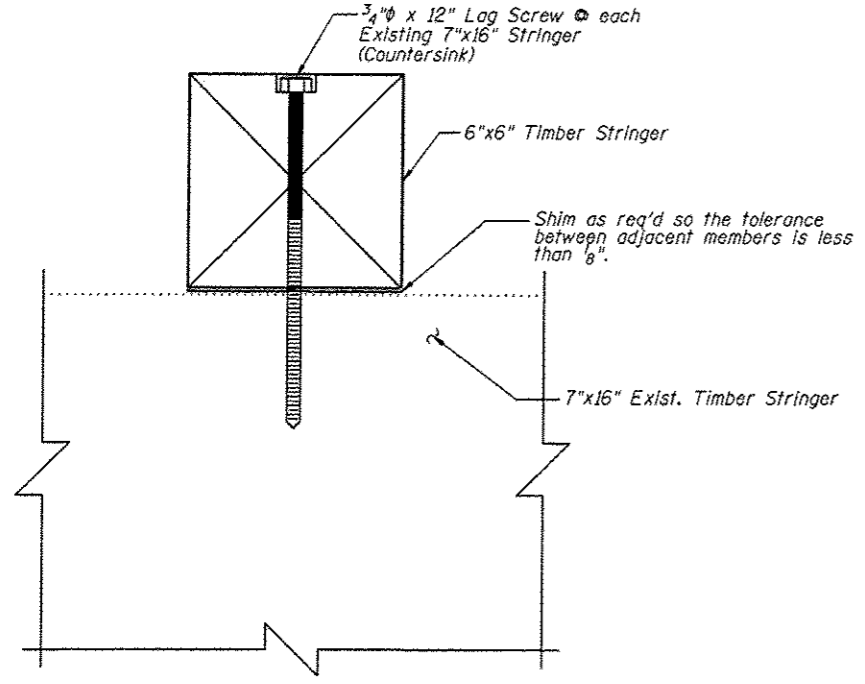
Item	Unit	Quantity
Porous Granular Embankment, Special	Cu. Yd.	17

Note:
All dimensions are approximate.
For Treated Timber quantity, see Sheet No. 4
All new timber members shown shall be included in the pay item Treated Timber.
All items determined by the Engineer to have salvageable value, including the Type A Steel Plate Beam Guardrail, W6x25 Posts, 3"x8" Timber Rail and 7"x16" Timber Stringers in good condition, shall be transported and stored at locations and in a manner approved by the Engineer.

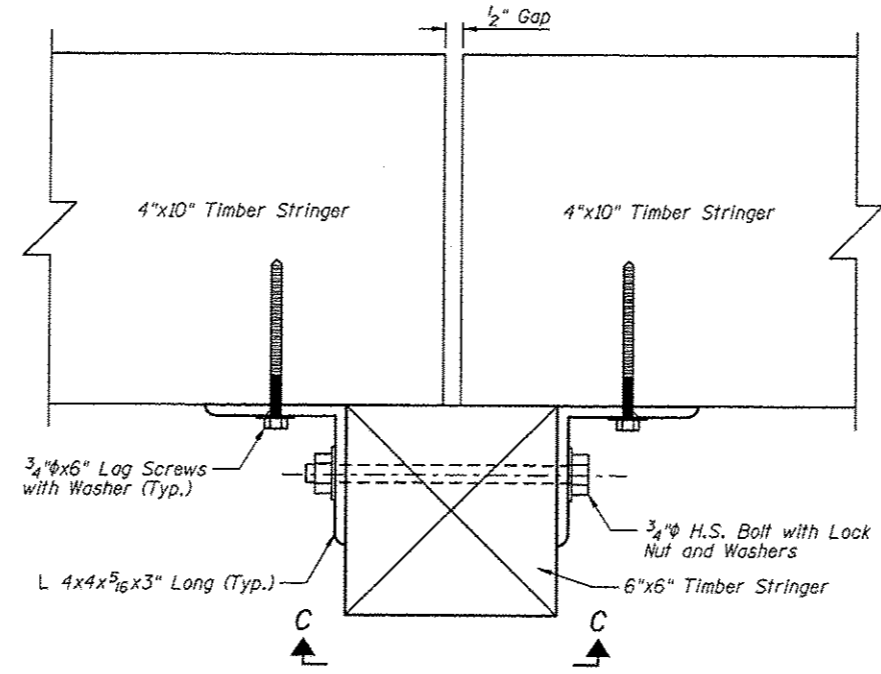
Juneau Associates, Inc. P.C. CONSULTING ENGINEERS AND LAND SURVEYORS 2100 State Street, P.O. Box 1321 Juneau City, Alaska 99801 Phone: (907) 586-1100 Fax: (907) 586-0541		GLEN CARBON HERITAGE BIKE TRAIL OVER AN UNNAMED CREEK MADISON COUNTY STATION 387+75.21 STRUCTURE NO. 11	
REVISIONS NO. DATE BY REMARKS		CROSS SECTIONS SCALE: NOT TO SCALE, FOLLOW DIMENSIONS	
DSN. BY: DB DATE: 10/18/12 SHEET		229	
DWN. BY: EER DATE: 10/18/12		CHB'D: WWH DATE: 10/18/12	
DGN NAME:		JOB NO. E064403 DGN NO. OF 310 BHTS	

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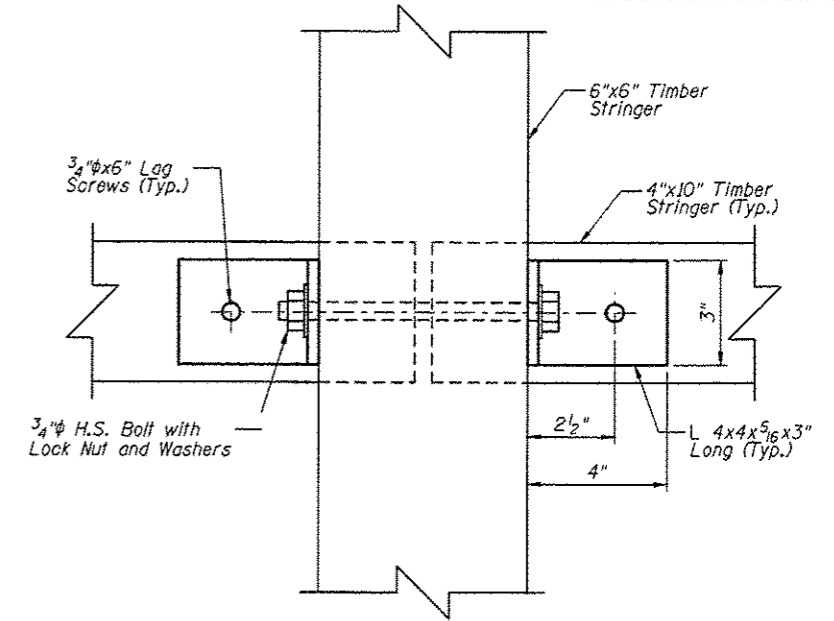
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FED. ROAD DIST. NO.	ILLINOIS	CONTRACT NO.	97433	



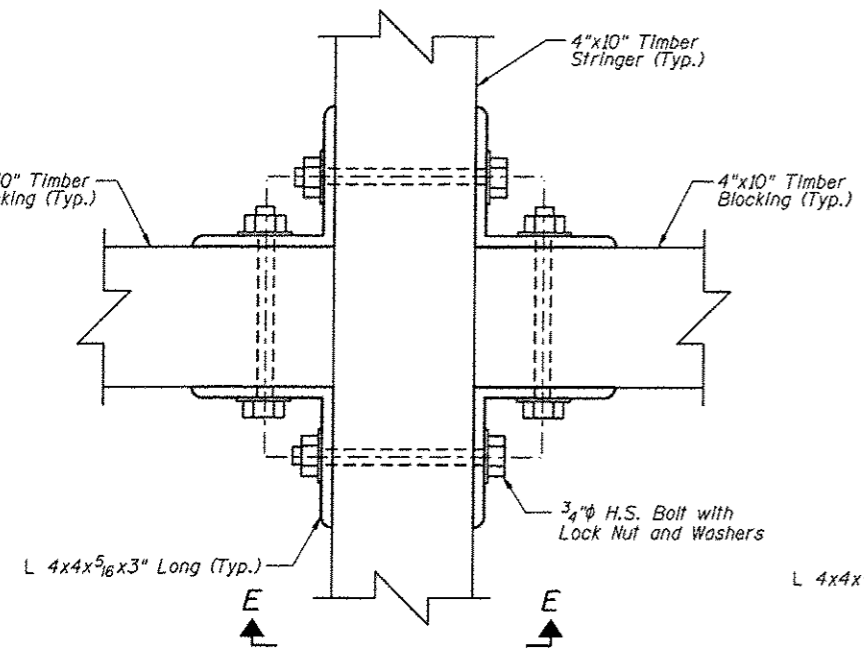
SECTION A-A



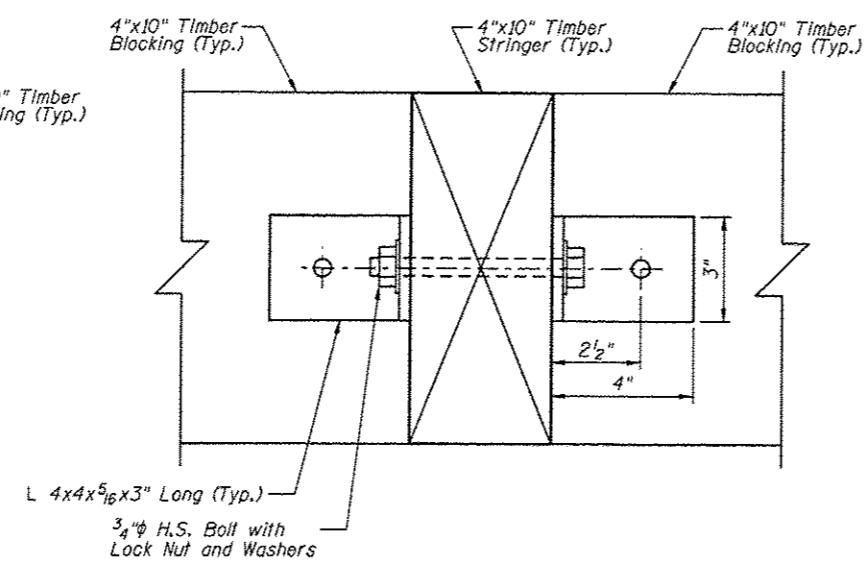
SECTION B-B
(Section G-G Similar)



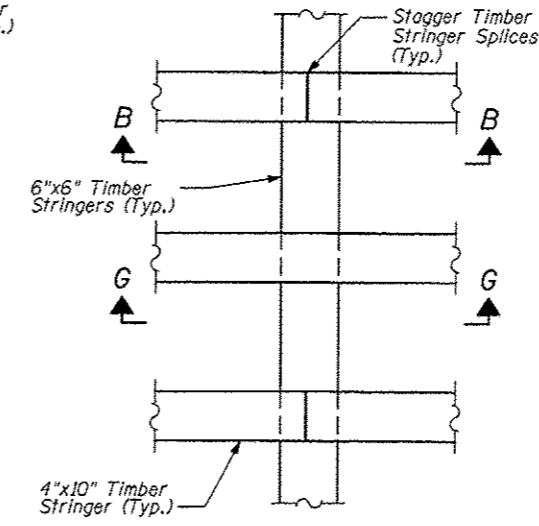
SECTION C-C



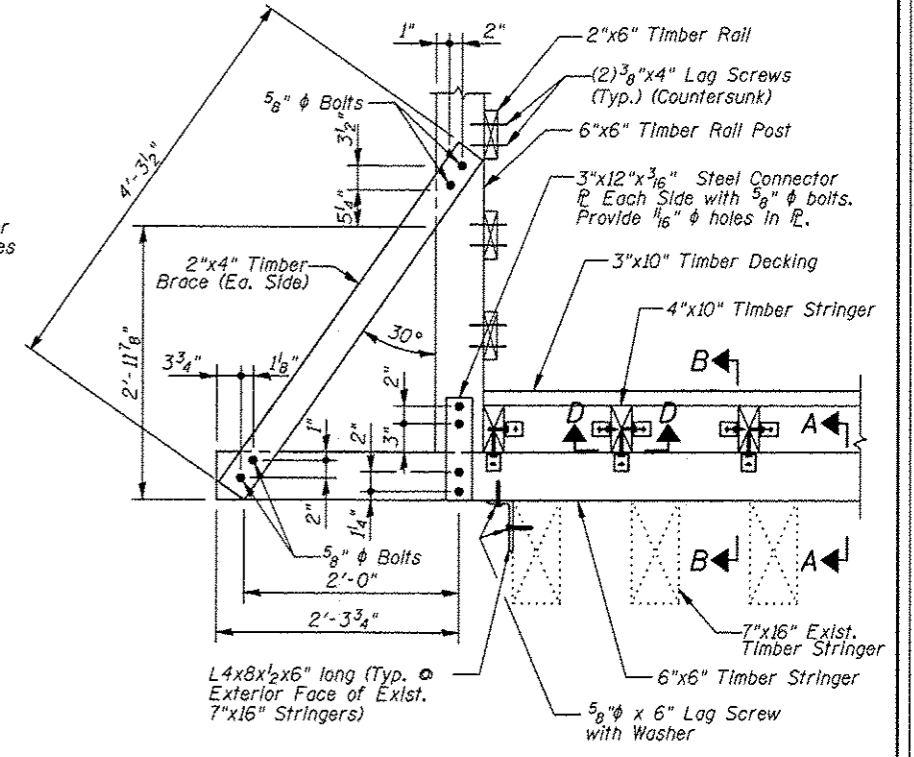
SECTION D-D



SECTION E-E



DETAIL A



DETAIL B

SUPERSTRUCTURE
BILL OF MATERIAL

Item	Unit	Quantity
Treated Timber	F.B.M.	9675

Note:
All new timber members shown shall be included in the pay item Treated Timber.

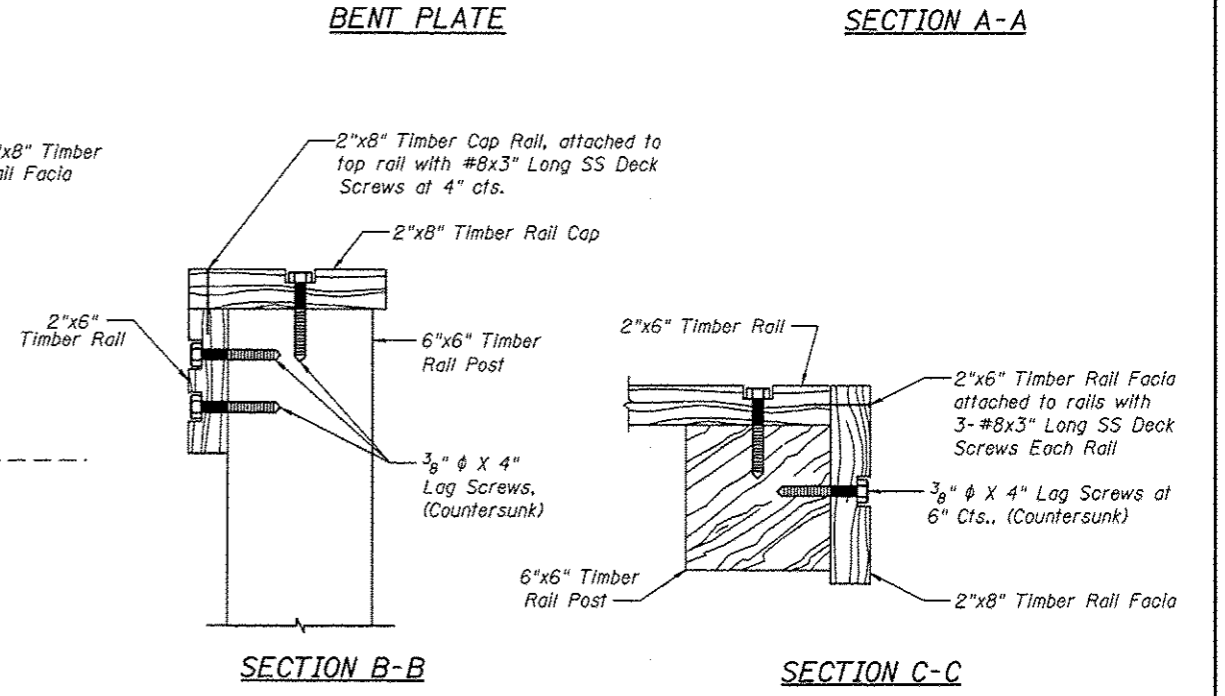
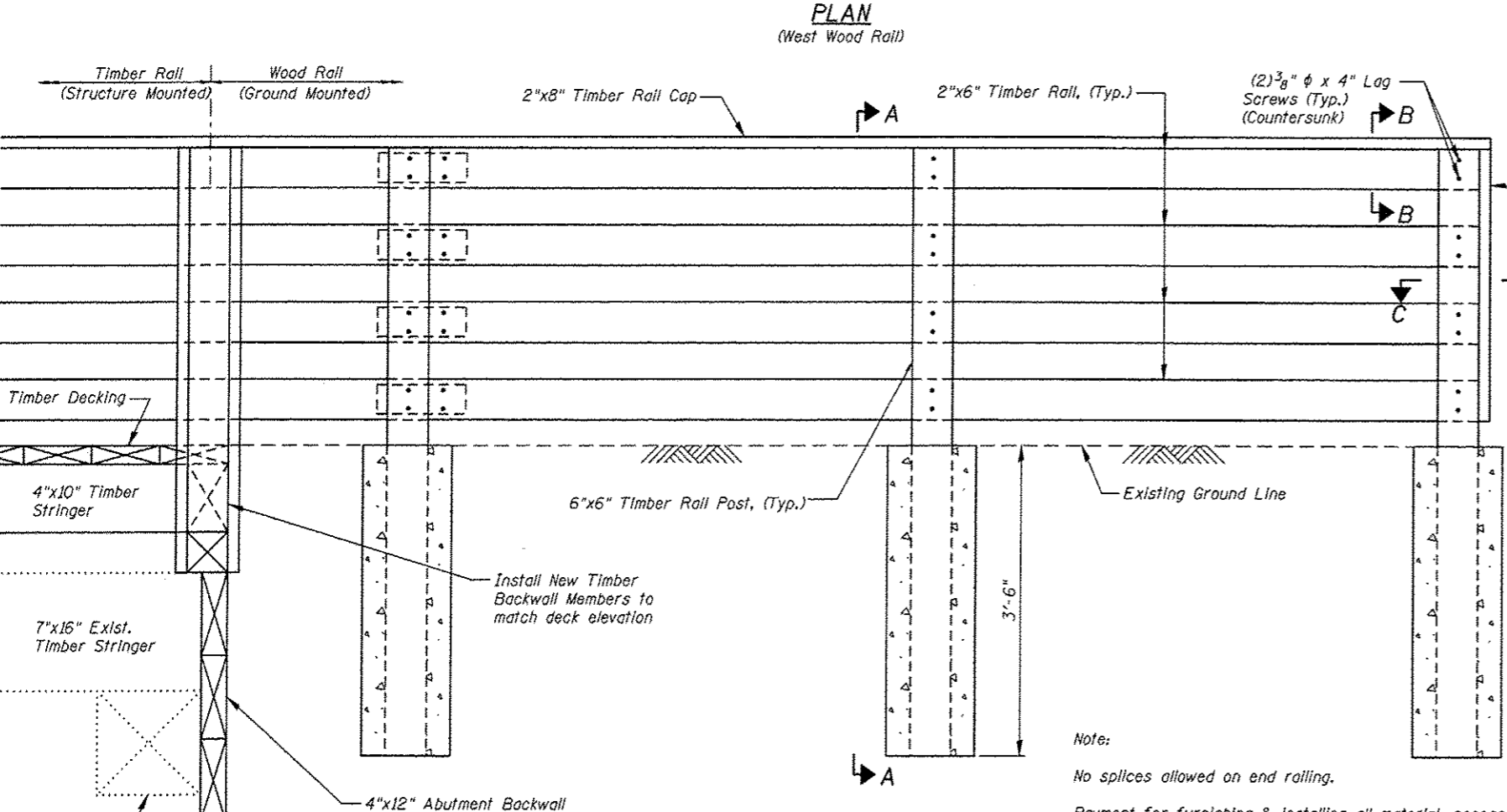
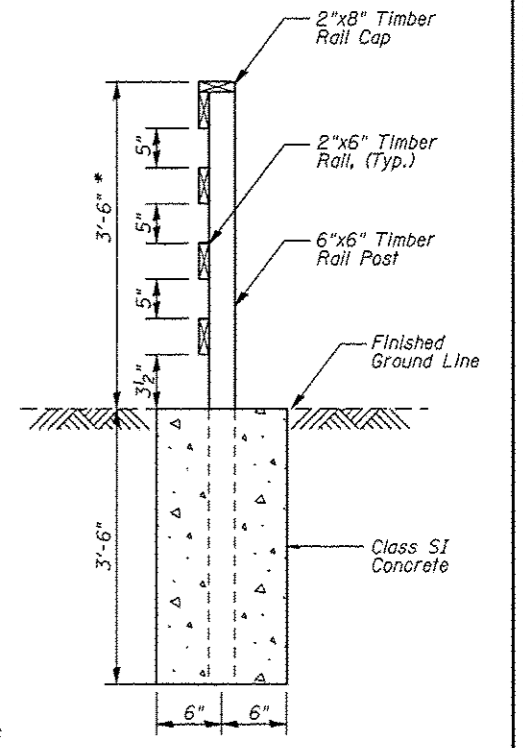
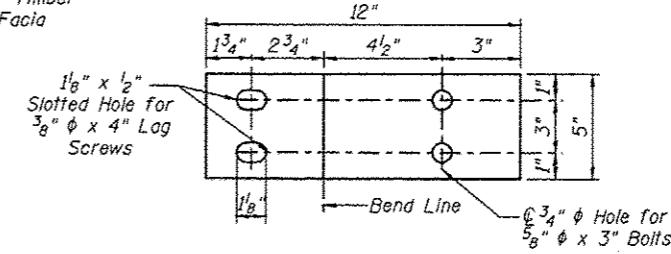
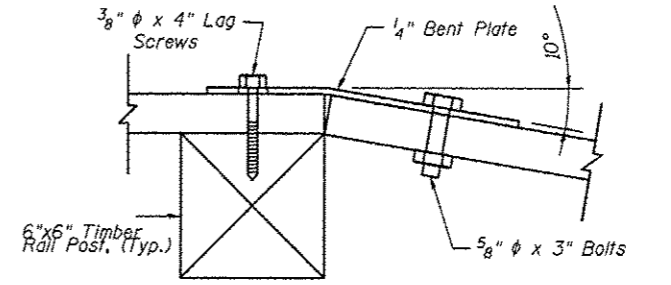
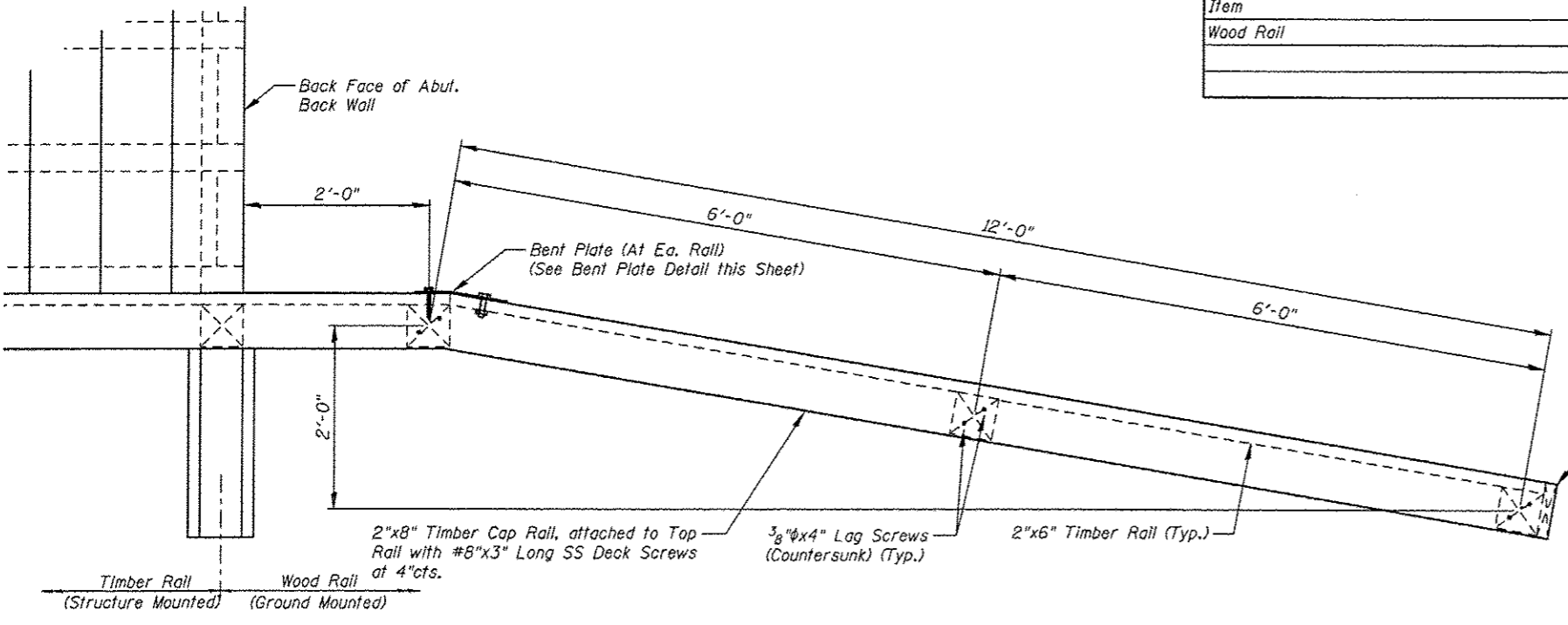
<p>Juneau Associates, Inc. P.C. CONSULTING ENGINEERS AND LAND SURVEYORS 2100 State Street, P.O. Box 1205 Juneau City, Alaska 99801 Phone: (907) 586-1100 Fax: (907) 586-5511</p>		<p>GLEN CARBON HERITAGE BIKE TRAIL OVER AN UNNAMED CREEK MADISON COUNTY STATION 387+75.21 STRUCTURE NO. 11</p>									
<p>REVISIONS</p> <table border="1"> <thead> <tr> <th>NO.</th> <th>DATE</th> <th>BY</th> <th>REMARKS</th> </tr> </thead> <tbody> <tr> <td> </td> <td> </td> <td> </td> <td> </td> </tr> </tbody> </table>				NO.	DATE	BY	REMARKS				
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<p>DGN NAME:</p>		<p>JOB NO. E064403 DGN. NO. OF 310 SHEETS</p>									

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 Connection Details.dgn
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F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	06-00016-00-BT	MADISON	310	231
FED. ROAD DIST. NO.	ILLINOIS	CONTRACT NO. 97433		

WOOD RAIL BILL OF MATERIAL

Item	Unit	Quantity
Wood Rail	Foot	29



Note:
No splices allowed on end railing.

Payment for furnishing & installing all material, necessary to construct the wood rail, including all posts, rails, rail cap, bent plate, hardware, excavation, Class SI concrete and all other appurtenances and incidental work, complete in place, will be considered completely covered by the contract unit price per foot for Wood Rail.

* Top of top timber rail shall be installed a minimum of 3'-6" above the finished groundline. Adjust post length according in field.

REVISIONS				SCALE:	
NO.	DATE	BY	REMARKS	NOT TO SCALE, FOLLOW DIMENSIONS	
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				CHK'D: WWH	DATE: 10/18/12
DGN. NAME:				JOB NO. E064403	DGN. NO.

WOOD RAIL DETAILS

Juneau Associates, Inc. P.C.
 CONSULTING ENGINEERS AND LAND SURVEYORS
 2100 State Street, P.O. Box 1325
 Granite City, Illinois 62040
 Phone: (618) 937-1100
 Fax: (618) 937-0541

GLEN CARBON HERITAGE BIKE TRAIL OVER AN UNNAMED CREEK
 MADISON COUNTY
 STATION 387+75.21
 STRUCTURE NO. 11

SCALE: NOT TO SCALE, FOLLOW DIMENSIONS

DSN. BY: DB DATE: 10/18/12 SHEET
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 CHK'D: WWH DATE: 10/18/12
 JOB NO. E064403 DGN. NO. OF 810 SHEETS

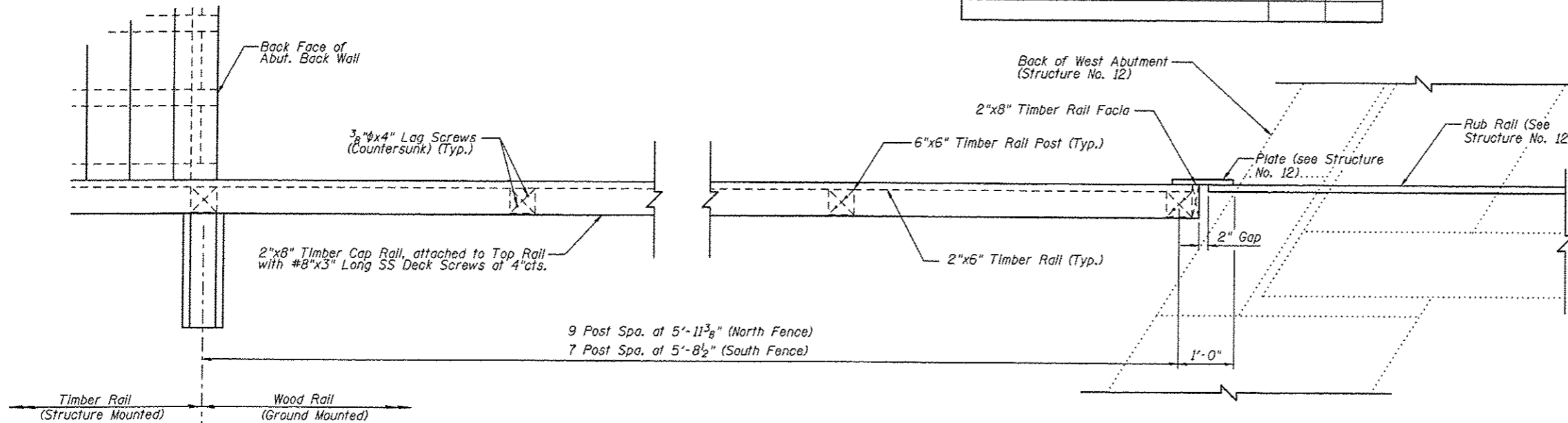
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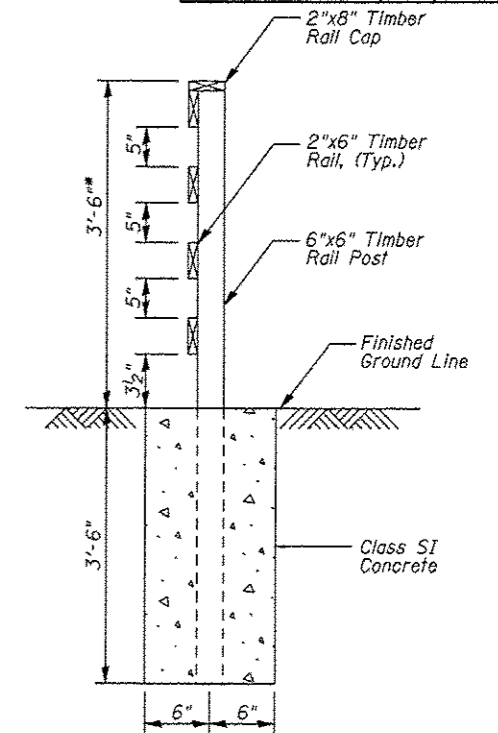
WOOD RAIL BILL OF MATERIAL

Item	Unit	Quantity
Wood Rail	Foot	96

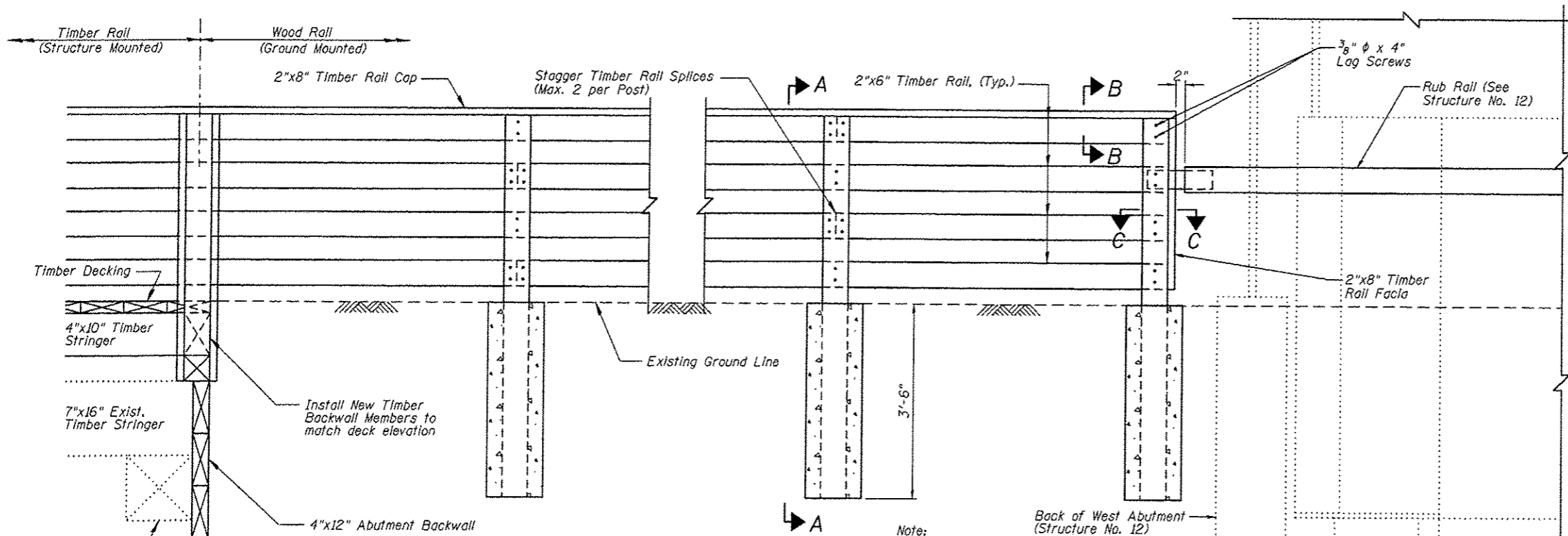
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	06-00016-00-BT	MADISON	310	232
FED. ROAD DIST. NO.	ILLINOIS	CONTRACT NO.	97433	



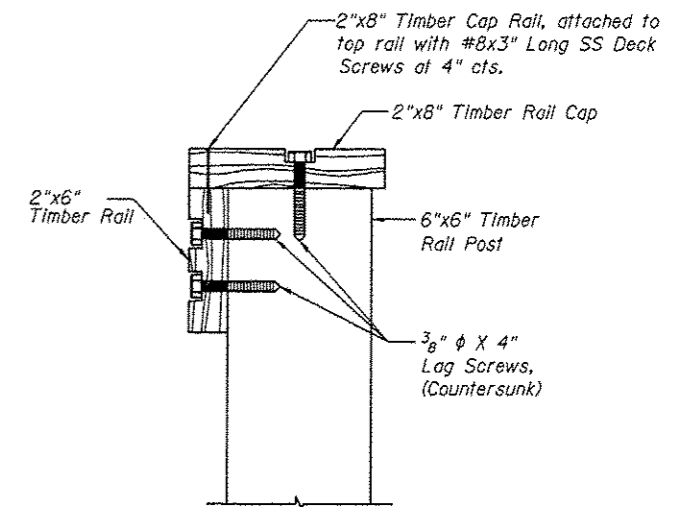
PLAN
(East Wood Rail)



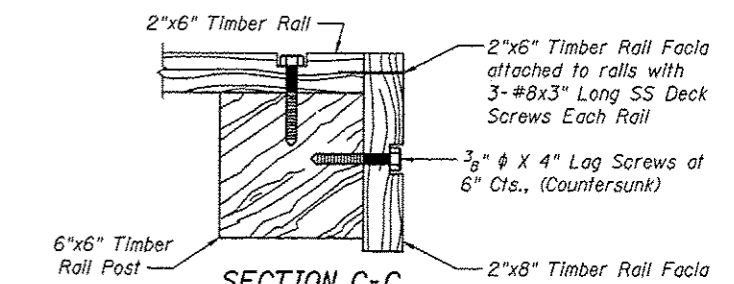
SECTION A-A



ELEVATION
(East Wood Rail)



SECTION B-B



SECTION C-C

Note:

No splices allowed on end railing.

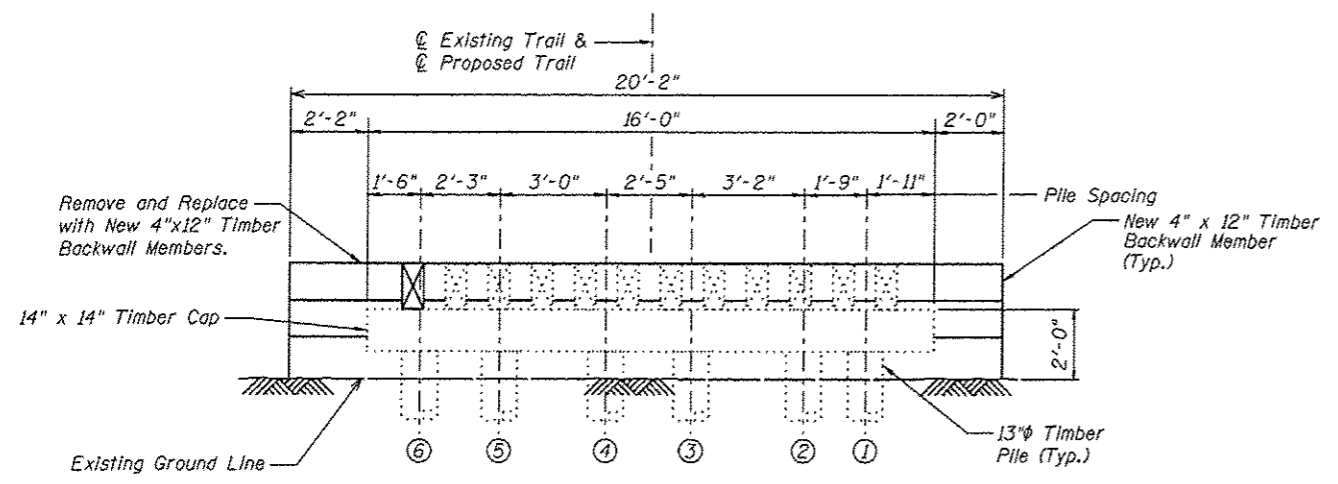
Payment for furnishing & installing all material, necessary to construct the wood rail, including all posts, rails, rail cap, bent plate, hardware, excavation, Class SI concrete and all other appurtenances and incidental work, complete in place, will be considered completely covered by the contract unit price per foot for Wood Rail.

* Top of top timber rail shall be installed a minimum of 3'-6" above the finished groundline. Adjust post length according in field.

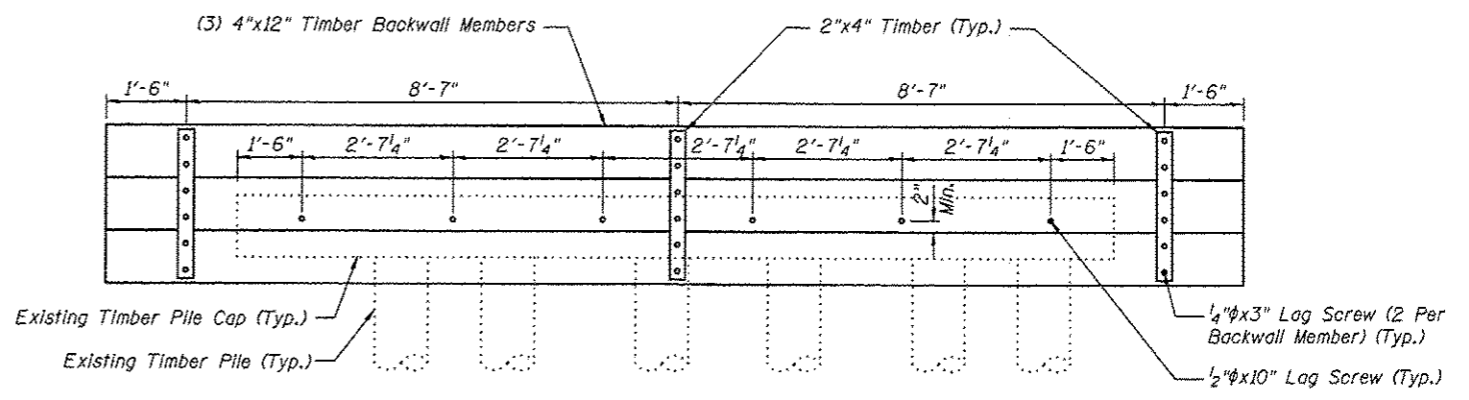
Sheet 6 of 10

WOOD RAIL DETAILS

Juneau Associates, Inc. P.C. CONSULTING ENGINEER AND LAND SURVEYOR 2100 State Street, P.O. Box 1207 South City, Illinois 62406 Phone: (618) 337-1100 Fax: (618) 337-5511		GLEN CARBON HERITAGE BIKE TRAIL OVER AN UNNAMED CREEK MADISON COUNTY STATION 387+75.21 STRUCTURE NO. 11									
REVISIONS <table border="1"> <thead> <tr> <th>NO.</th> <th>DATE</th> <th>BY</th> <th>REMARKS</th> </tr> </thead> <tbody> <tr> <td> </td> <td> </td> <td> </td> <td> </td> </tr> </tbody> </table>		NO.	DATE	BY	REMARKS					SCALE: NOT TO SCALE, FOLLOW DIMENSIONS	
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DSN. BY: DB		DATE: 10/18/12									
DWN. BY: EER		DATE: 10/18/12									
CHK'D: WWH		DATE: 10/18/12									
DGN. NO.		OF 810 SHEETS									



WEST ABUTMENT
(Looking West)



EAST ABUTMENT
(Looking West)

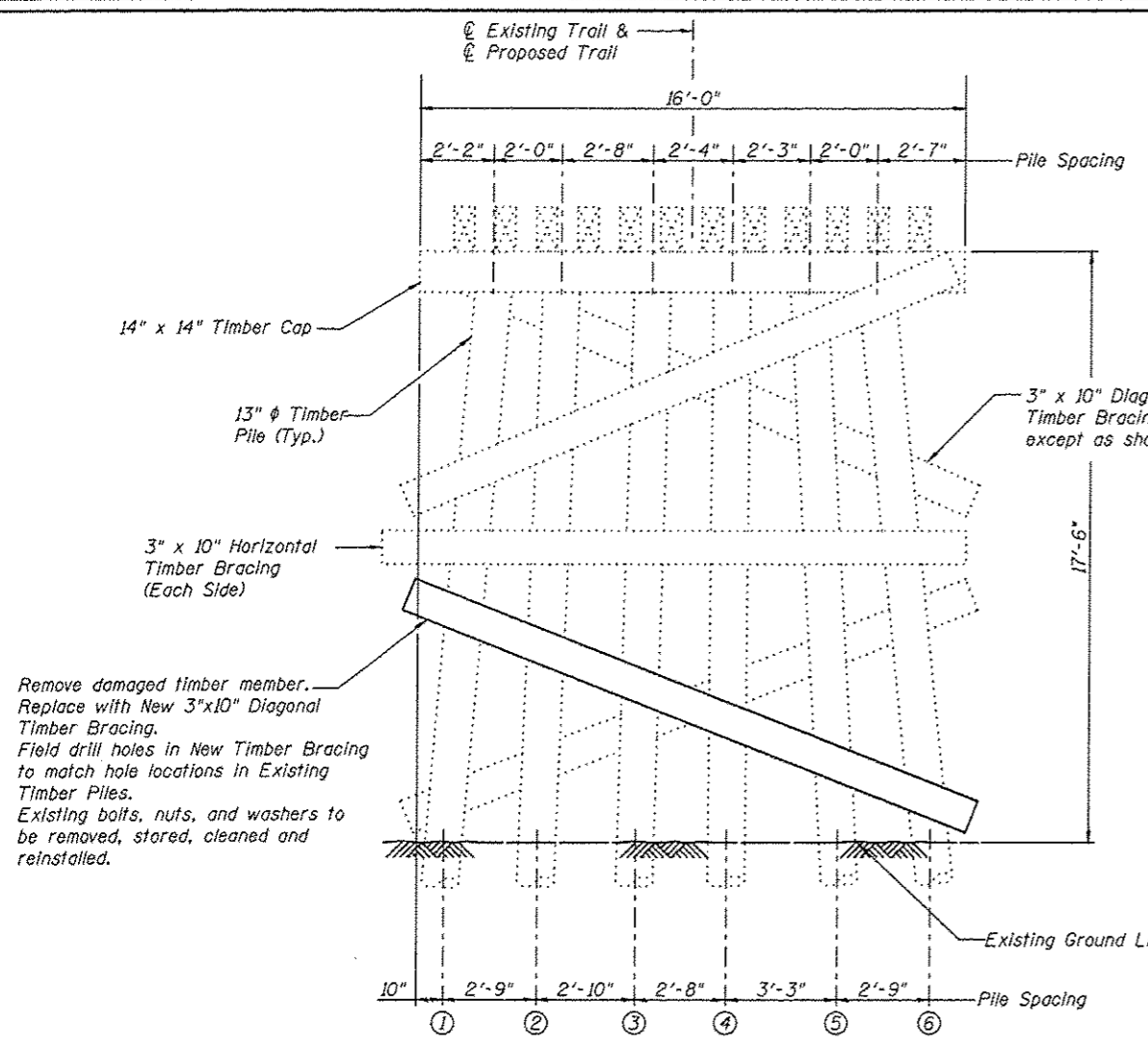
**WEST ABUTMENT
BILL OF MATERIAL**

Item	Unit	Quantity
Treated Timber	F.B.M.	248

		WEST ABUTMENT DETAILS	
Juneau Associates, Inc. P.C. CONSULTING ENGINEERS AND LAND SURVEYORS 2100 State Street, P.O. Box 1205 Granite City, Illinois 62040 Phone: (618) 542-5100 Fax: (618) 542-5541		GLEN CARBON HERITAGE BIKE TRAIL OVER AN UNNAMED CREEK MADISON COUNTY STATION 387+75.21 STRUCTURE NO. 11	
REVISIONS		SCALE: NOT TO SCALE, FOLLOW DIMENSIONS	
NO.	DATE	BY	REMARKS
DGN NAME:		JOB NO. E064403	DGN. NO.
DSN. BY: DB		DATE: 10/18/12	SHEET
DWN. BY: EER		DATE: 10/18/12	233
CHK'D: WHH		DATE: 10/18/12	OF 810 SHEETS

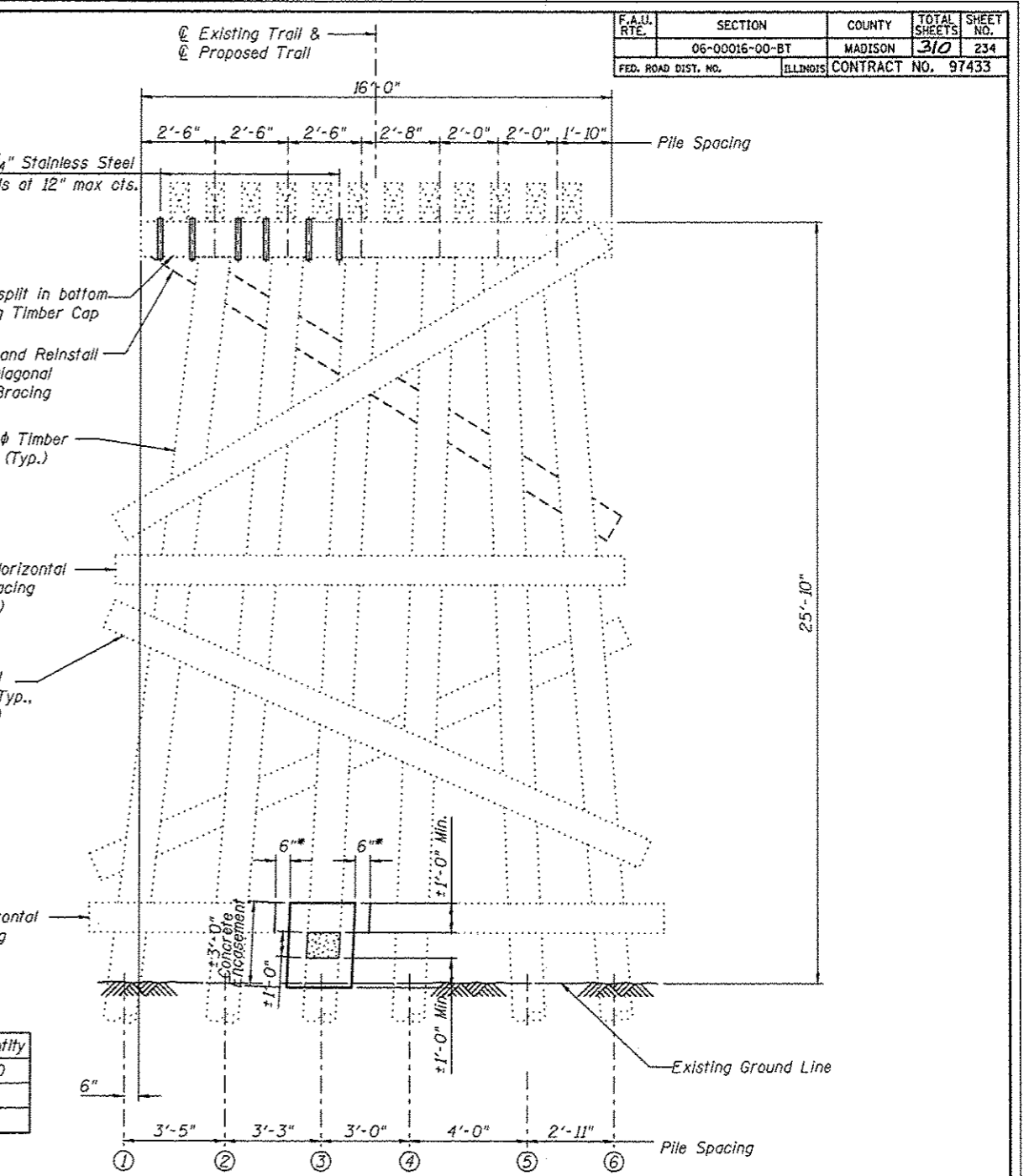
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Printed 10/05/12 AM 12/19/2012 W:\STRUCTURE\Drawings\Structure #1\Proposed Structure 107-2002\081234 Pier 2 & Pier 3.dgn



PIER 2
(Looking East)

** The existing timber bracing shall be reinstalled after the installation of the Stainless Steel Bands. Existing bolts, nuts, and washers to be removed, cleaned and reinstalled. Cost of removing and relocating the existing timber bracing shall be included with Concrete Encasement.



PIER 3
(Looking East)

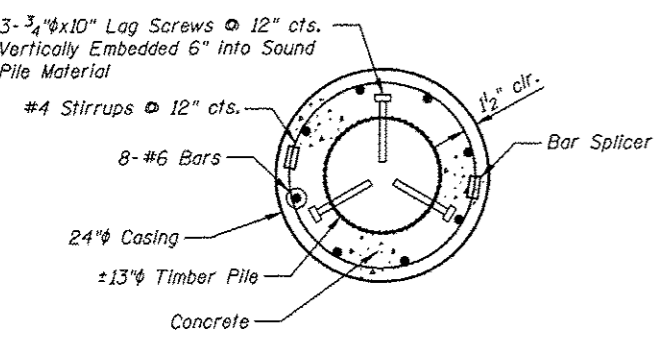
PIER 2
BILL OF MATERIAL

Item	Unit	Quantity
Treated Timber	F.B.M.	50

PIER 3
BILL OF MATERIAL

Item	Unit	Quantity
Concrete Encasement	Cu Yd	0.5
Stainless Steel Bands	Foot	28

For estimated quantities, see Special Provisions.



SECTION A-A

Payment for furnishing all material, labor and excavation necessary to construct the Concrete Encasement, including the casing, lag screws, concrete, reinforcement bars, bar splicers, partial removal of timber bracing, removal of deteriorated timber and all other appurtenances and incidental work as shown on this sheet, complete in place, will be considered completely covered by the contract unit price per cubic yard for Concrete Encasement.

CONCRETE ENCASEMENT DETAILS

Notes:

All dimensions are approximate.

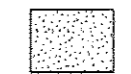
All new timber members shown shall be included in the pay item Treated Timber.

The stainless steel bands shall be stainless steel with a minimum width of 3/4" and a minimum thickness of 0.030" and shall be installed per the manufacturer's recommendation. Product data shall be submitted to the Engineer for approval prior to installation.

Concrete Encasement shall extend above and below the damaged area of the pile a minimum of 1'-0".

* Existing timber bracing that interferes with the Concrete Encasement shall be removed a max distance of 6" beyond the face of the pile encasement. Cost included with Concrete Encasement.

Legend

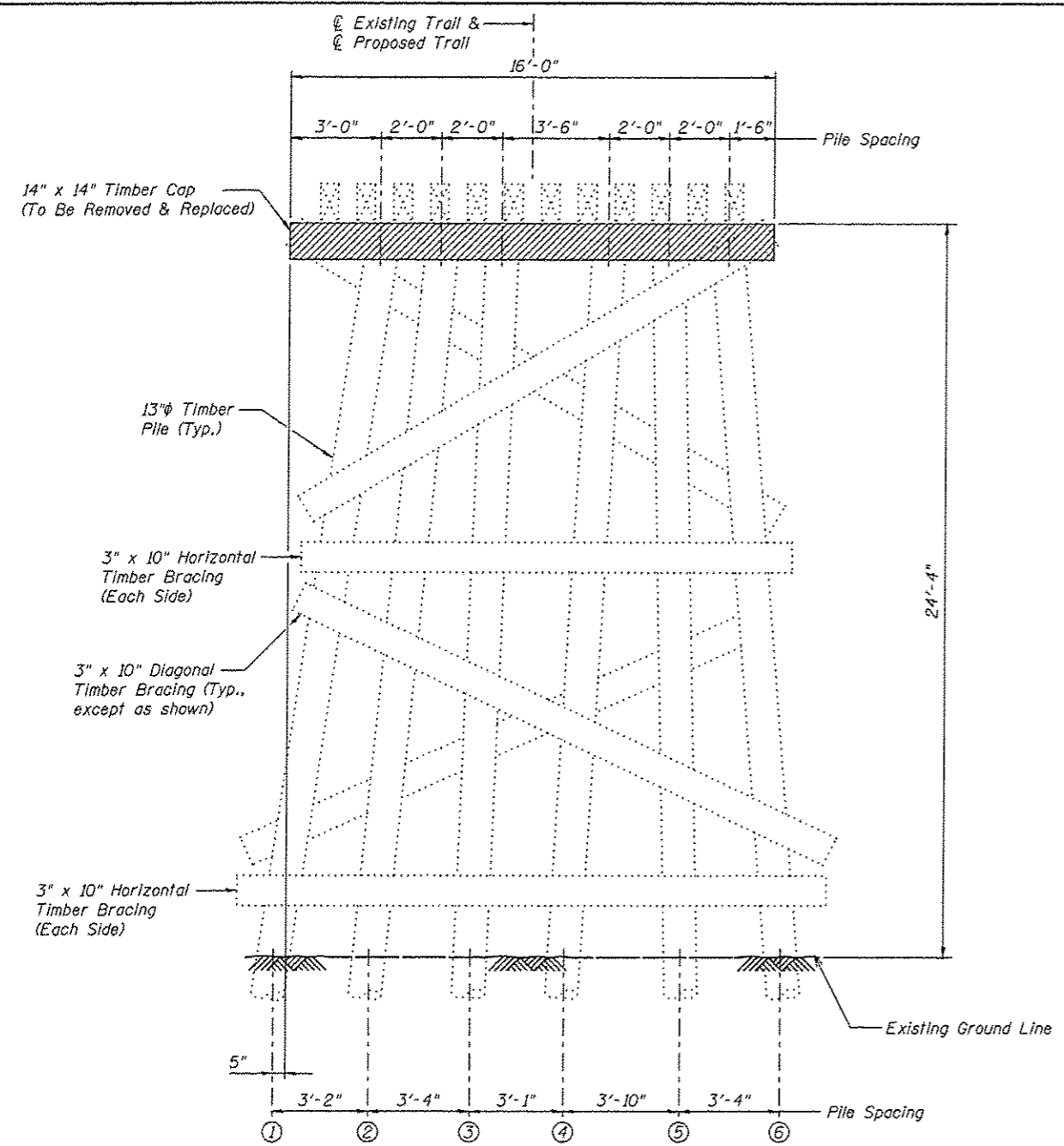


Area of Deterioration

PIER 2 & PIER 3 DETAILS CONSULTING ENGINEERS AND LAND SURVEYORS 2100 State Street, P.O. Box 1325 Granite City, Illinois 62040 Phone: (618) 451-1100 Fax: (618) 451-0541		GLEN CARBON HERITAGE BIKE TRAIL OVER AN UNNAMED CREEK MADISON COUNTY STATION 387+75.21 STRUCTURE NO. 11	
REVISIONS NO. DATE BY REMARKS		SCALE: NOT TO SCALE, FOLLOW DIMENSIONS	
DSN. BY: DB DATE: 10/18/12		SHEET: 234	
DWN. BY: EER DATE: 10/18/12		OF 819 SHTS	
CHK'D: WWH DATE: 10/18/12		JOB NO. E064403 DGN. NO.	
DGN NAME:		CONTRACT NO. 97433	

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 W:\STRUCTURE\064403 04CT Heritage Trail\Drawings\Structure #4\Proposed Structure 107-20021(09)(235) Pier 4 & Pier 5.dgn

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	06-00016-00-BT	MADISON	310	235
FED. ROAD DIST. NO.	ILLINOIS CONTRACT NO.		97433	



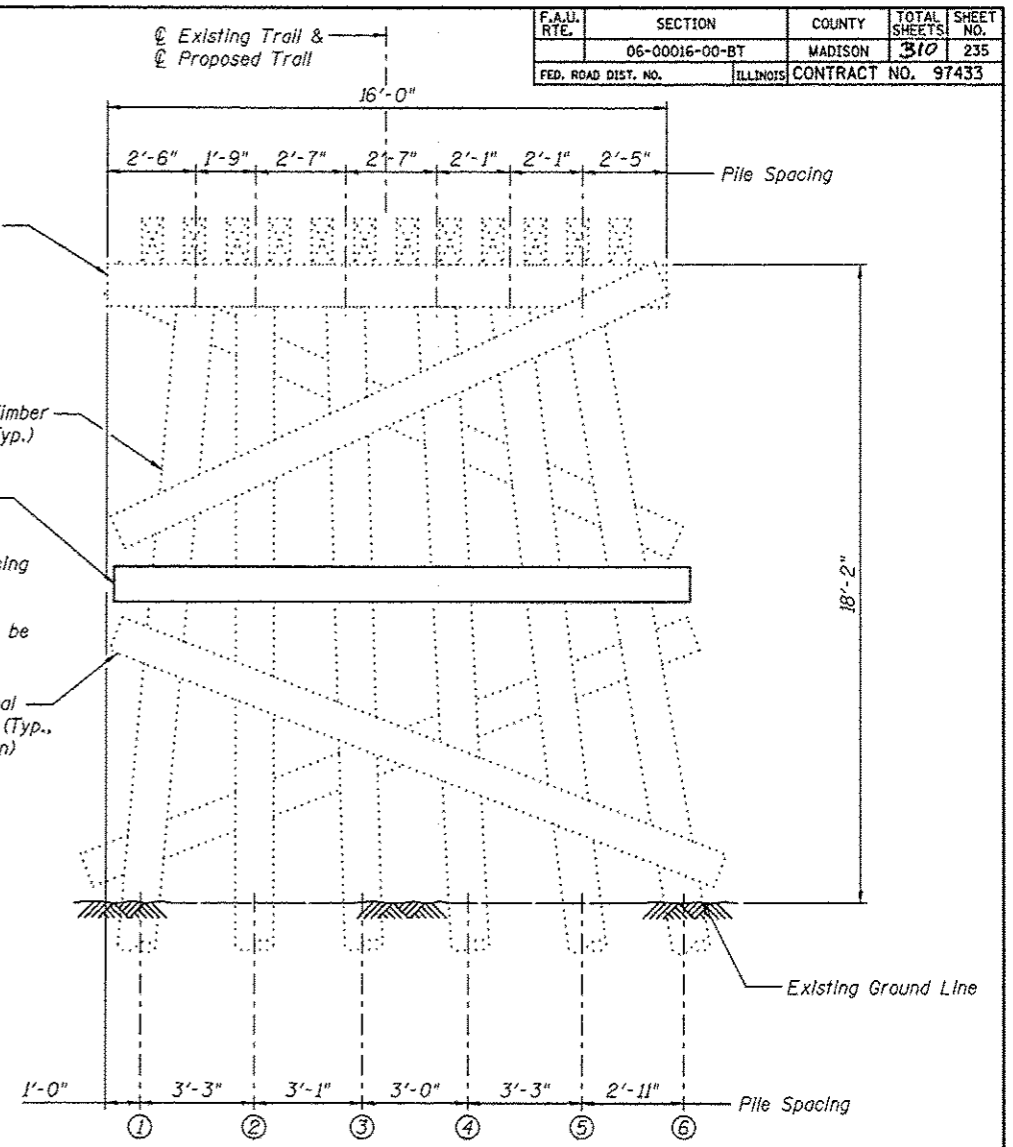
PIER 4
(Looking East)

PIER 4
BILL OF MATERIAL

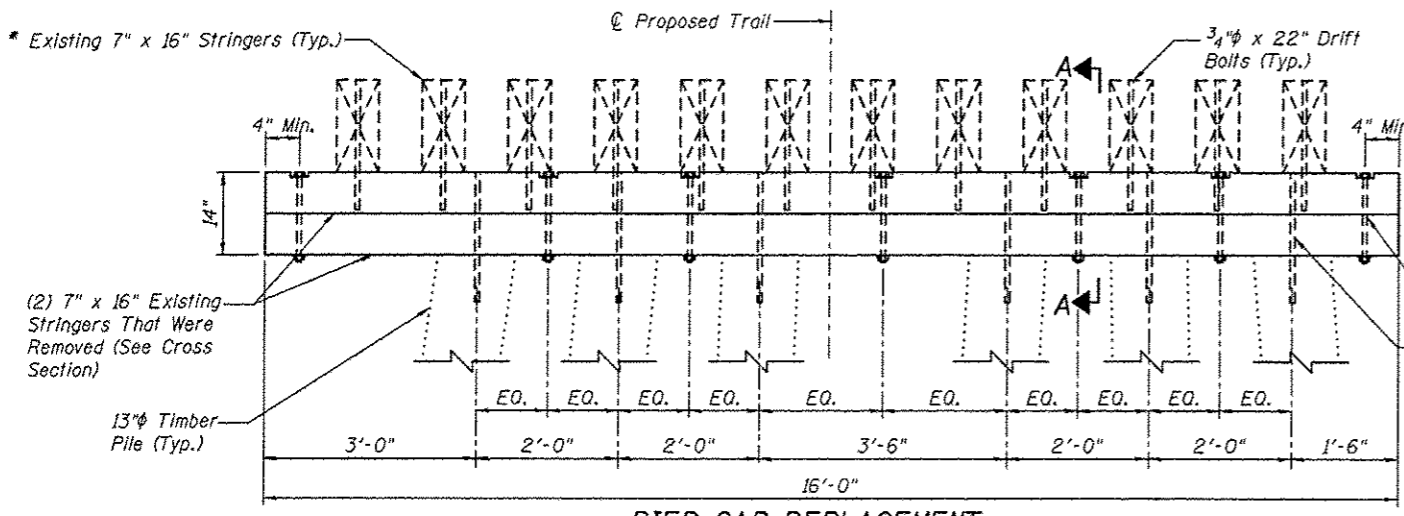
Item	Unit	Quantity
Treated Timber	F.B.M.	299

PIER 5
BILL OF MATERIAL

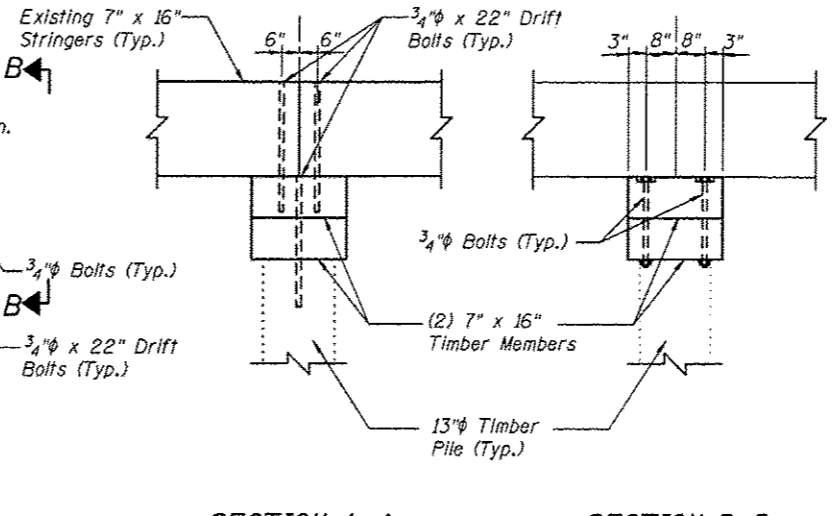
Item	Unit	Quantity
Treated Timber	F.B.M.	40



PIER 5
(Looking East)

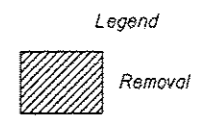


PIER CAP REPLACEMENT



SECTION A-A

SECTION B-B



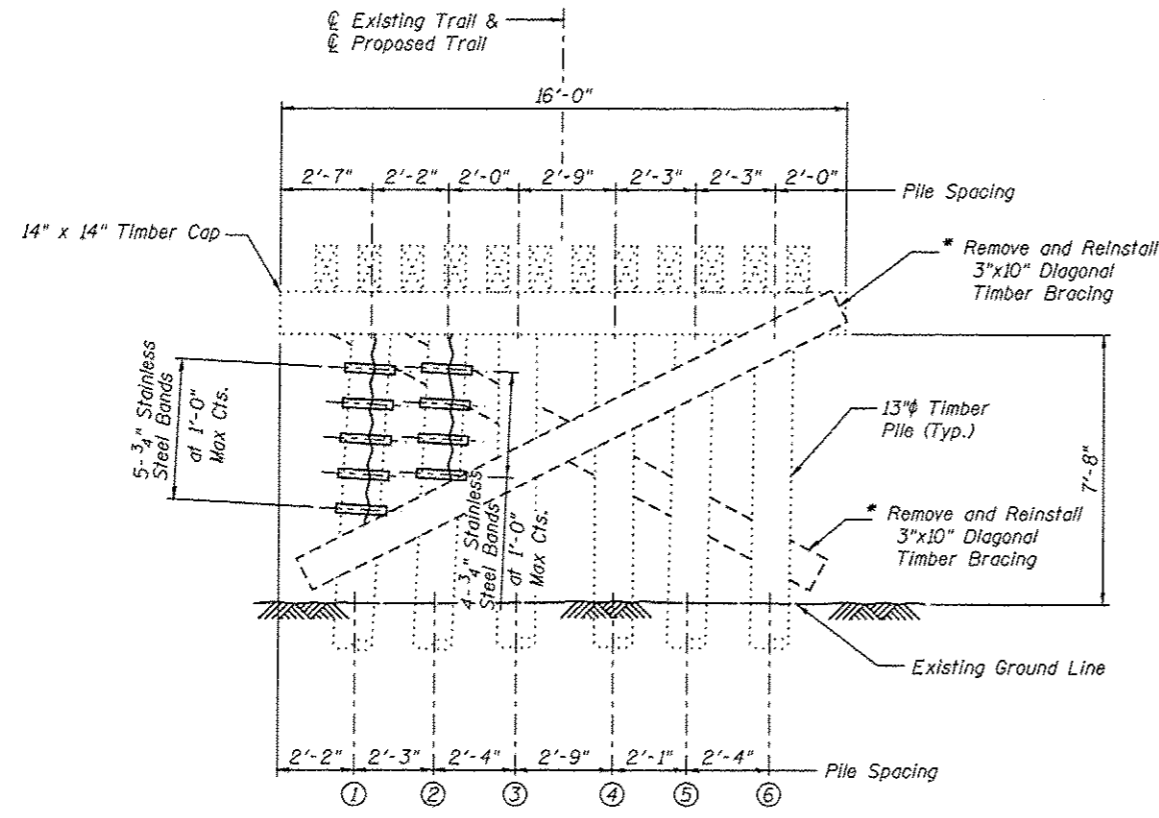
Notes:
 All dimensions are approximate.
 All new timber members shown shall be included in the pay item Treated Timber.

* The existing 7"x16" stringers shall be removed and reinstalled to accommodate the pier cap replacement. Field drill holes in new timber cap to match hole locations in existing timber piles and stringers. Existing bolts, nuts, washers and drift pins to be removed, stored, cleaned and reinstalled. Cost of removing and reinstalling the existing timber stringers shall be included with Treated Timber.

REVISIONS				SCALE:	
NO.	DATE	BY	REMARKS	NOT TO SCALE, FOLLOW DIMENSIONS	
				DSN. BY: DB	DATE: 10/18/12
				DWN. BY: EER	DATE: 10/18/12
				CHK'D: WHH	DATE: 10/18/12
DGN NAME:				JOB NO. E064403	DGN. NO.

 Juneau Associates, Inc. P.C. CONSULTING ENGINEERS AND LAND SURVEYORS 2100 State Street, P.O. Box 1385 Granite City, Illinois 62040 Phone: 618/321-1100 Fax: 618/321-4541	GLEN CARBON HERITAGE BIKE TRAIL OVER AN UNNAMED CREEK MADISON COUNTY STATION 387+75.21 STRUCTURE NO. 11	
	SHEET 235	OF 310 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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FED. ROAD DIST. NO.	ILLINOIS	CONTRACT NO.	97433	

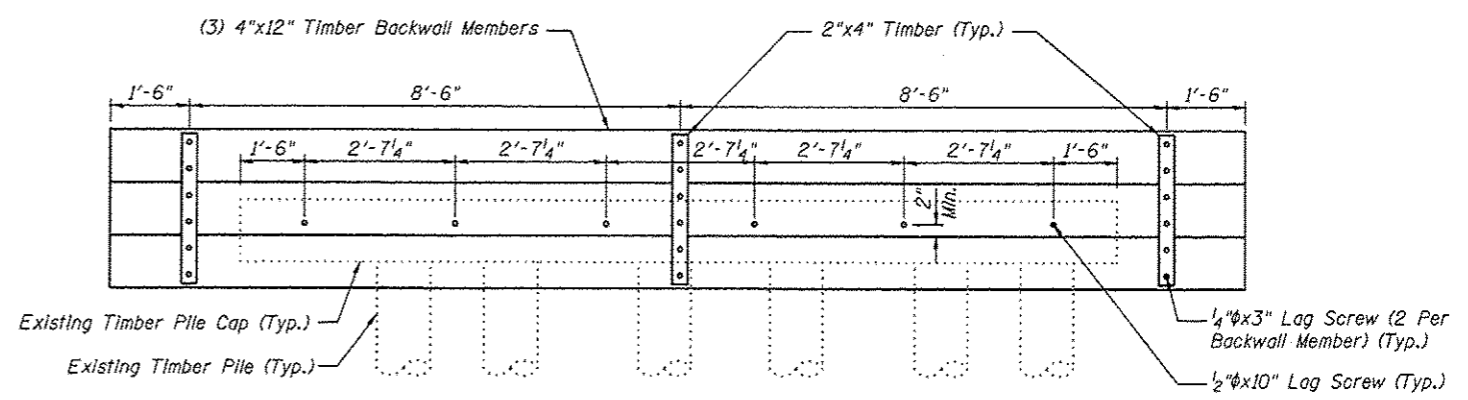
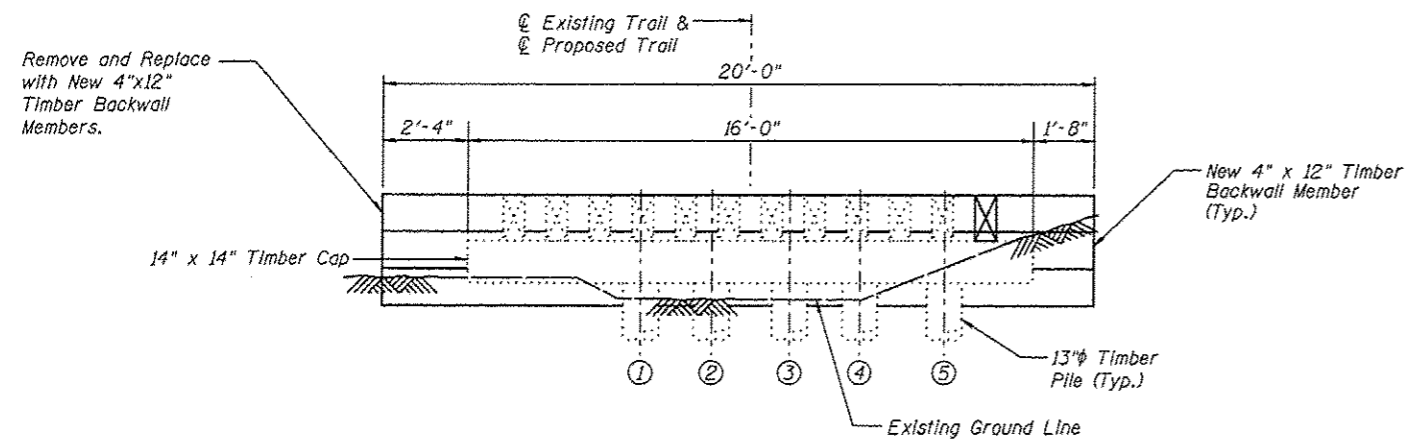


**PIER 6
BILL OF MATERIAL**

Item	Unit	Quantity
Stainless Steel Bands	Foot	31

**EAST ABUTMENT
BILL OF MATERIAL**

Item	Unit	Quantity
Treated Timber	F.B.M.	246



**EAST ABUTMENT
(Looking East)**

**EAST ABUTMENT
(Looking West)**

Notes:

All dimensions are approximate.

All new timber members shown shall be included in the pay item Treated Timber.

* The existing timber bracing shall be reinstalled after the installation of the Stainless Steel Bands. Existing bolts, nuts, and washers to be removed, cleaned and reinstalled. Cost of removing and relocating the existing timber bracing shall be included with Concrete Encasement.

PIER 6 & EAST ABUTMENT DETAILS

Juneau Associates, Inc. P.C.
CONSULTING ENGINEERS AND LAND SURVEYORS
2108 State Street, P.O. Box 1025
Granite City, Illinois 62041
Phone: (618) 651-1900
Fax: (618) 651-1901

**GLEN CARBON HERITAGE
BIKE TRAIL OVER AN UNNAMED CREEK
MADISON COUNTY
STATION 387+75.21
STRUCTURE NO. 11**

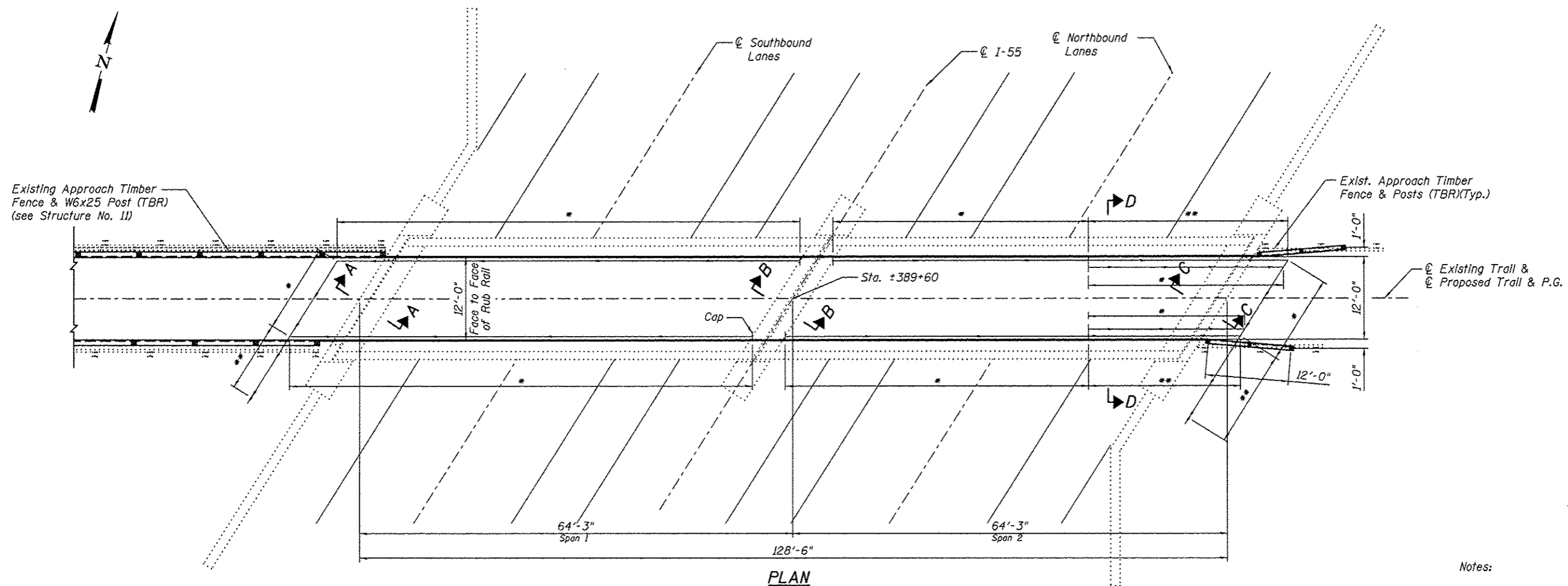
REVISIONS			
NO.	DATE	BY	REMARKS

SCALE: NOT TO SCALE, FOLLOW DIMENSIONS

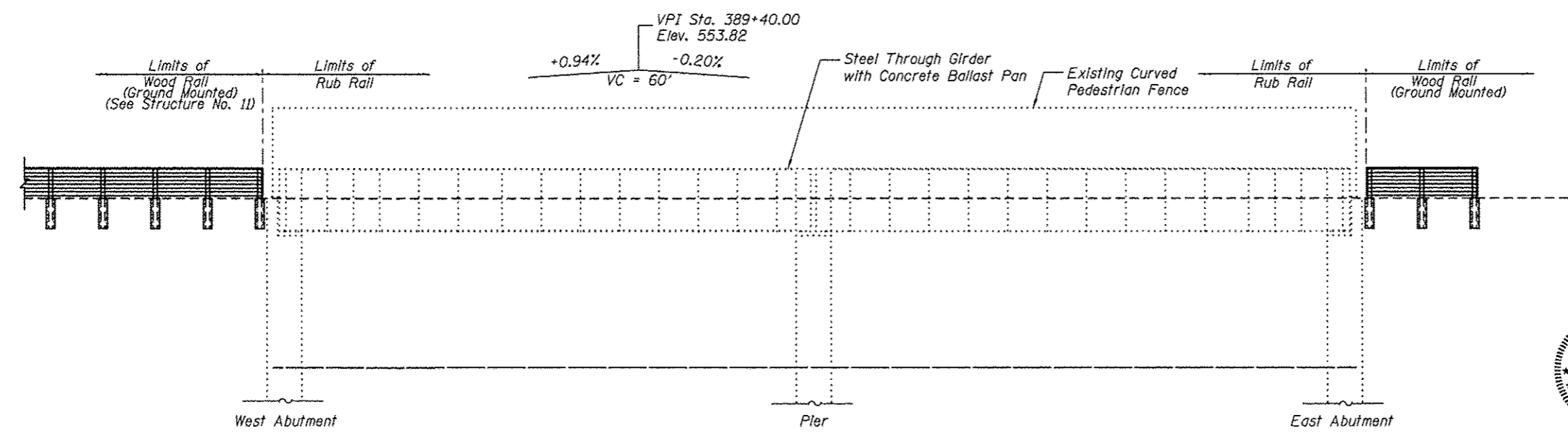
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DWN. BY: EER	DATE: 10/18/12	
CHR'D: WWH	DATE: 10/18/12	

DGN NAME: JOB NO. E064403 DGN. NO. OF 310 SHEETS

Printed 10/06/00 AM 12/18/2012 W:\STRUCTURE\Drawings\Structure #1\Proposed Structure (07-2012)\012361 E Abut.dgn



PLAN



ELEVATION

- Notes:
- For Section A-A, B-B, and C-C, see Sheet 3
 - For Section D-D, see Sheet 5
 - * 4" φ Perforated Pipe Drain
 - ** 4" φ Unperforated Pipe Drain

I certify to the best of knowledge, information and belief, this wood rail design is structurally adequate for the design loading shown on the plans. The design is an economical one for the style of structure and complies with requirements of the current AASHTO Standard Specification for Highway Bridges.



Wesley W. Herndon 1/2/13
 WESLEY W. HERNDON, S.E. DATE

BILL OF MATERIAL

Item	Unit	Quantity
4" φ Perforated Pipe Drain	Foot	294
4" φ Unperforated Pipe Drain	Foot	64

PLAN & ELEVATION

<p>Juneau Associates, Inc. P.C. CONSULTING ENGINEER AND LAND SURVEYOR 1100 State Street, P.O. Box 1100, Springfield, Illinois 62766 Phone: (618) 261-1100 Fax: (618) 261-1101</p>		<p>GLEN CARBON HERITAGE BIKE TRAIL OVER INTERSTATE 55 MADISON COUNTY STATION 389+60 STRUCTURE 12</p>									
<p>REVISIONS</p> <table border="1"> <thead> <tr> <th>NO.</th> <th>DATE</th> <th>BY</th> <th>REMARKS</th> </tr> </thead> <tbody> <tr> <td> </td> <td> </td> <td> </td> <td> </td> </tr> </tbody> </table>		NO.	DATE	BY	REMARKS					<p>SCALE: NOT TO SCALE, FOLLOW DIMENSIONS</p>	
NO.	DATE	BY	REMARKS								
<p>DGN NAME:</p>		<p>DSN. BY: DB DATE: 10/18/12</p>	<p>SHEET</p>								
<p>JOB NO. E064403</p>		<p>DWN. BY: EER DATE: 10/18/12</p>	<p>237</p>								
<p>DGN NO.</p>		<p>CHK'D: WWH DATE: 10/18/12</p>	<p>OF 310 SHTS</p>								

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F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	06-00016-00-BT	MADISON	310	238
FED. ROAD DIST. NO.	ILLINOIS CONTRACT NO.		97433	

GENERAL NOTES

Treated timber shall be according to Sections 507 and 1007 of the Standard Specifications. Wood members shall be visually graded No. 1 Southern Pine or No. 2 Douglas Fir - Larch, or approved equivalent.

Plan dimensions and details relative to existing structure 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.

Bolt holes in lumber shall be in accordance with Article 507.08 of the IDOT Standard Specifications.

All dimensions are shown in inches unless otherwise noted.

Lumber sizes shown are nominal dimensions in inches. Lumber shall be surfaced four sides.

Holes for all hardware shall be predrilled to avoid splitting.

All Structural Steel, including angles, steel tubing and plates, shall conform to AASHTO M270 in accordance with Article 1006.04 and shall be hot dipped galvanized according to AASHTO M232.

See Bikeway Plans for underground utility locations.

Outlet pipe shall extend until intersecting with the side slopes and day lights. The pipes shall drain into concrete headwalls. (See Article 601.05 of the Standard Specifications and Highway Standard 601101)

See Bikeway Plans for profile grade of trail.

Bolts and lag screws shall conform to ASTM A307. All hardware including anchors, plates, bolts, screws, nails, nuts and washers, etc. shall be stainless steel in accordance with Article 1006.17 of the IDOT Standard Specifications, unless otherwise noted.

Payments for furnishing all material & labor necessary to construct the rub rail, including the plates, steel tubing, angles, Hot Dipped Galvanizing, field drilling existing structural steel, cleaning and painting contact surface areas of existing structural steel, timber rail, bolts and all other appurtenances and incidental work as shown, complete in place, will be considered completely covered by the contract unit price for Rub Rail per foot.

The existing structural steel coating contains lead. The Contractor shall take appropriate precautions to deal with the presence of lead on this project.

"Cleaning and painting of the existing structural steel shall be as specified in the special provision for "Cleaning and Painting Existing Steel Structures". All existing steel shall be cleaned per Near White Blast Cleaning - SSPC-SP10. All existing steel shall be painted according to the requirements of Paint System 1 - OZ/E/U. The color of the final finish coat for all interior steel surfaces shall be approved by the Madison County Transit District. The color of the final finish coat for the exterior steel surfaces, top flange and bottom flange of the through girders shall be Interstate Green (Munsell No. 7.5G 4/8)."

The designated areas to be cleaned and painted shall be the exposed surfaces of the existing through girders and misc. steel attachments from back of abutment to back of abutment.

Payments for furnishing all material and labor necessary to construct the concrete overlay including concrete and epoxy coated reinforcement bars and all other appurtenances and incidental work as shown, complete in place, will be considered completely covered by the contract unit price for Bridge Deck Concrete Overlay per square yard.

DESIGN SPECIFICATIONS

2002 AASHTO, 17th Edition
1997 AASHTO Guide Specifications for Design of Pedestrian Bridges

LOADING

Pedestrian Live Load = 85 psf
Vehicle Live Load = H-15

DESIGN STRESSES

FIELD UNITS


f'c = 3,500 psi (Concrete)
fy = 36,000 psi (Structural Steel)
fy = 45,000 psi (Bolts, Nuts, etc.)

Design stresses for wood members shall be as specified in Section 1007 of the IDOT Standard Specifications.

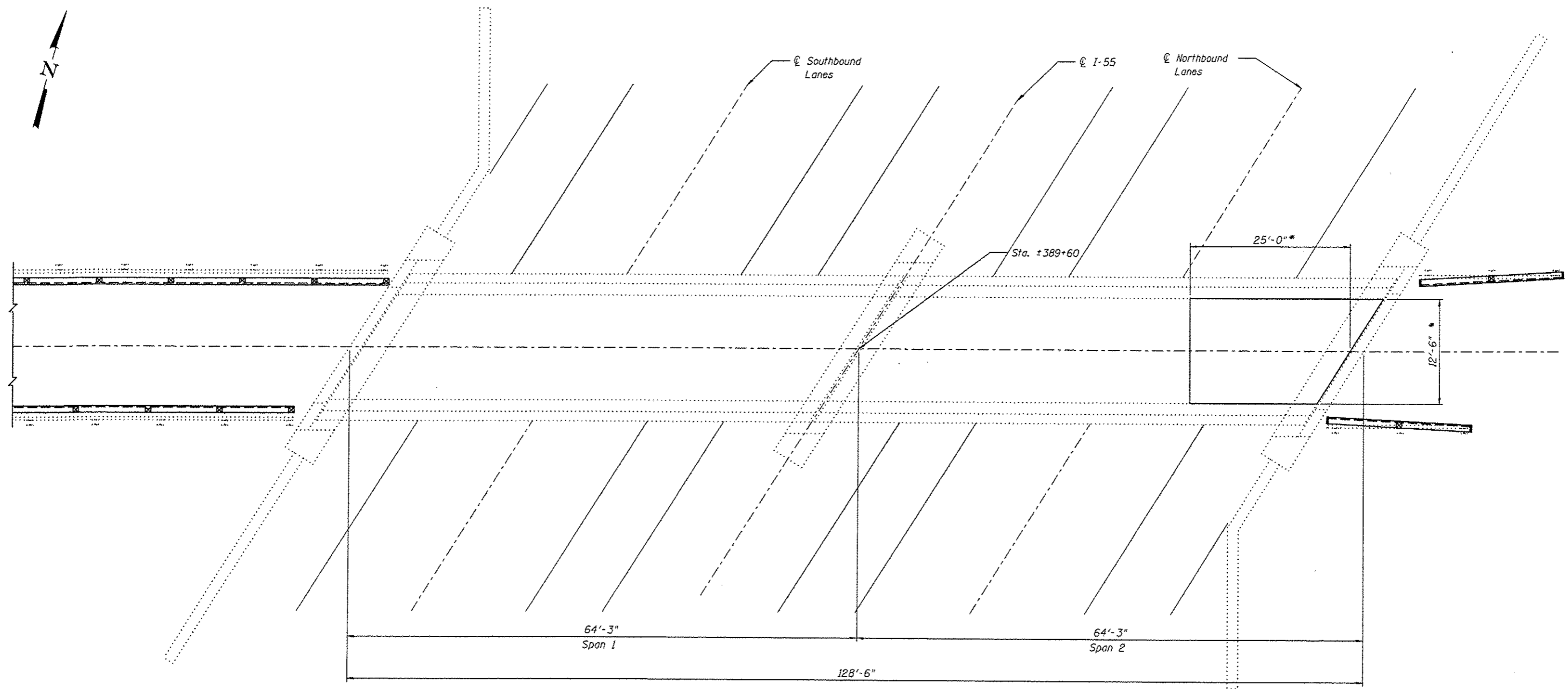
TOTAL BILL OF MATERIAL

ITEM	UNIT	TOTAL
Structural Repair of Concrete (Depth Equal to or less than 5 inches)	Sq Ft	121
Aggregate Base Course, Type A	Cu Yd	123
Hot Mix Asphalt Surface Course, Mix "C", N50	Ton	20
Waterproofing Membrane System	Sq Yd	236
Pipe Underdrains for Structures 4"	Foot	358
Rub Rail	Foot	261
Pavement Removal (Special)	Sq Yd	180
Cleaning and Painting Steel Bridge No. 1	Lump Sum	1
Containment and Disposal of Lead Paint Cleaning Residues No. 1	Lump Sum	1
Bridge Deck Concrete Overlay	Sq Yd	35
Wood Rail	Foot	24

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 Juneau Associates, Inc. P.C. CONSULTING ENGINEERS AND LAND SURVEYORS <small>7166 Stone Street, P.O. Box 1375 Granite City, Illinois 62040 Phone: (618) 381-1450 Fax: (618) 381-2545</small>		GENERAL NOTES GLEN CARBON HERITAGE BIKE TRAIL OVER INERSTATE 55 MADISON COUNTY STATION 389+60 STRUCTURE 12	
REVISIONS NO. DATE BY REMARKS		SCALE: NOT TO SCALE, FOLLOW DIMENSIONS	
DSN. BY: DB DATE: 10/18/12		SHEET	
OWN. BY: EER DATE: 10/18/12		238	
CHK'D: WWH DATE: 10/18/12		DGN NAME:	
JOB NO. E064403		DGN. NO. DF 310 SH15	

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	06-00016-00-BT	MADISON	310	239
FED. ROAD DIST. NO.	ILLINOIS CONTRACT NO. 97433			



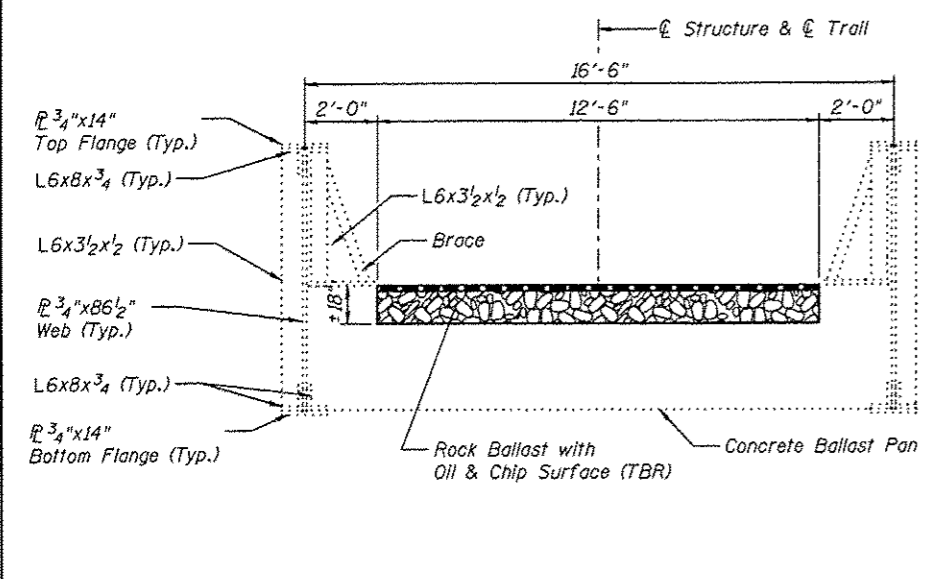
PLAN OF BRIDGE DECK CONCRETE OVERLAY

Legend
* Limits of Concrete Overlay

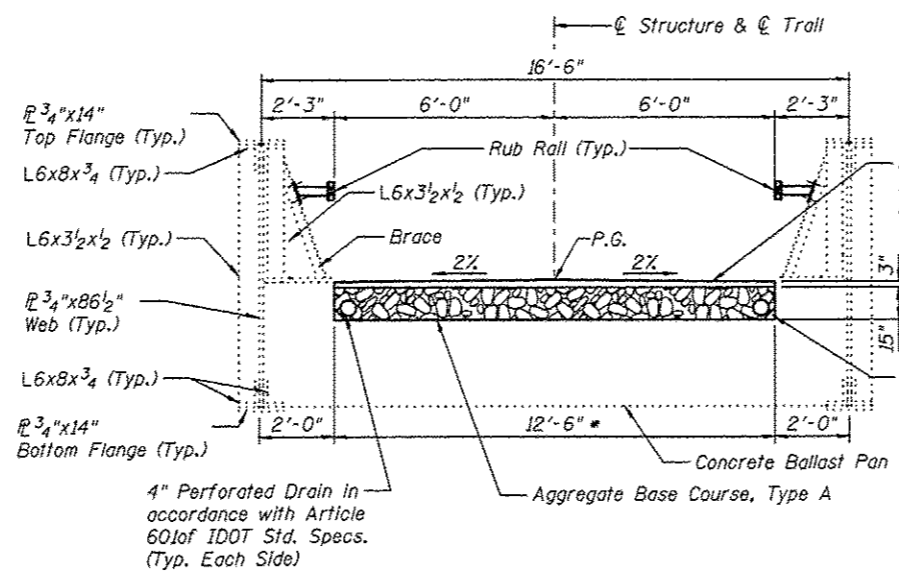
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Juneau Associates, Inc. P.C. CONSULTING ENGINEERS AND LAND SURVEYORS 2100 State Street, P.O. Box 1325 Madison, IL 61704-0132 Phone: (618) 267-1100 Fax: (618) 267-5911		PLAN OF BRIDGE DECK CONCRETE OVERLAY GLEN CARBON HERITAGE BIKE TRAIL OVER INERSTATE 55 MADISON COUNTY STATION 389+60 STRUCTURE 12									
REVISIONS <table border="1"> <thead> <tr> <th>NO.</th> <th>DATE</th> <th>BY</th> <th>REMARKS</th> </tr> </thead> <tbody> <tr> <td> </td> <td> </td> <td> </td> <td> </td> </tr> </tbody> </table>		NO.	DATE	BY	REMARKS					SCALE: NOT TO SCALE, FOLLOW DIMENSIONS DSN. BY: DB DATE: 10/18/12 DWN. BY: EER DATE: 10/18/12 CHK'D: WWH DATE: 10/18/12	
NO.	DATE	BY	REMARKS								
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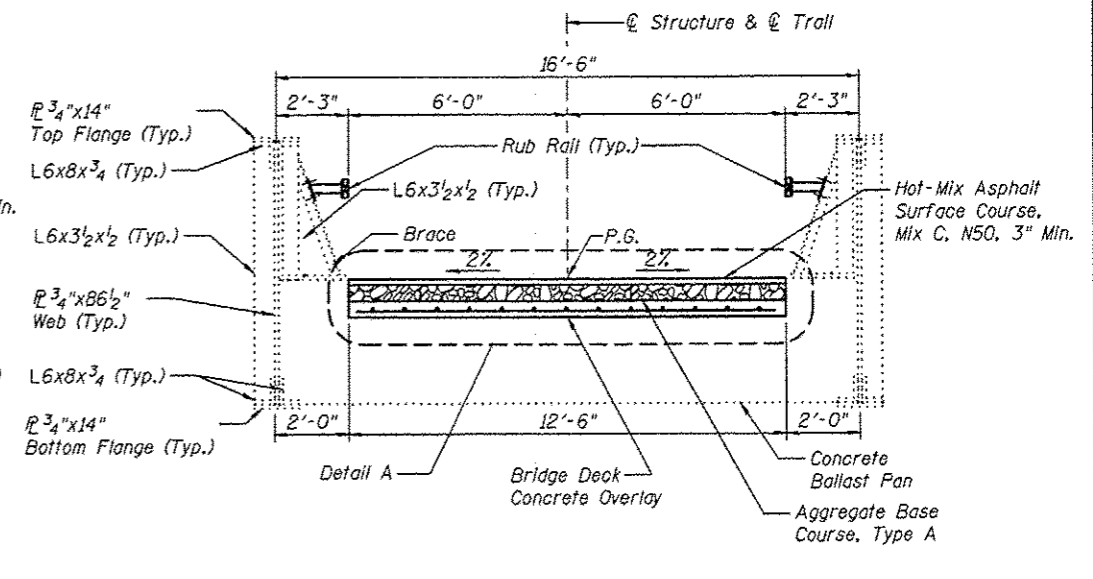
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FED. ROAD DIST. NO.	ILLINOIS CONTRACT NO.		97433	



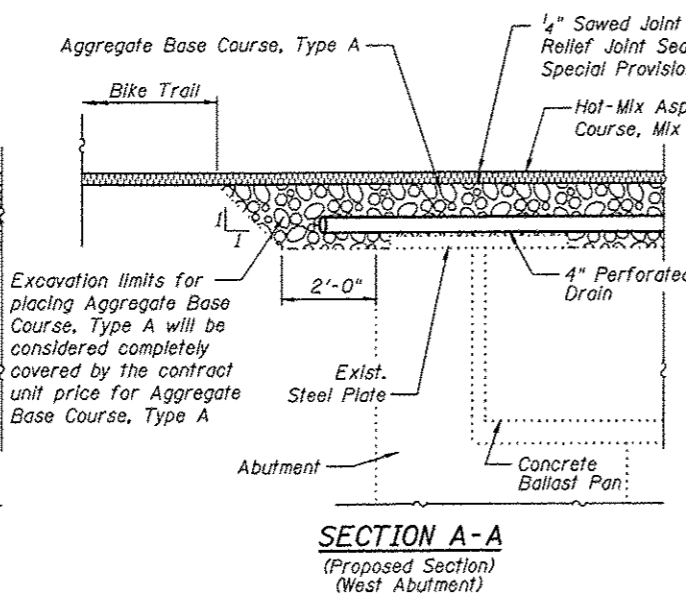
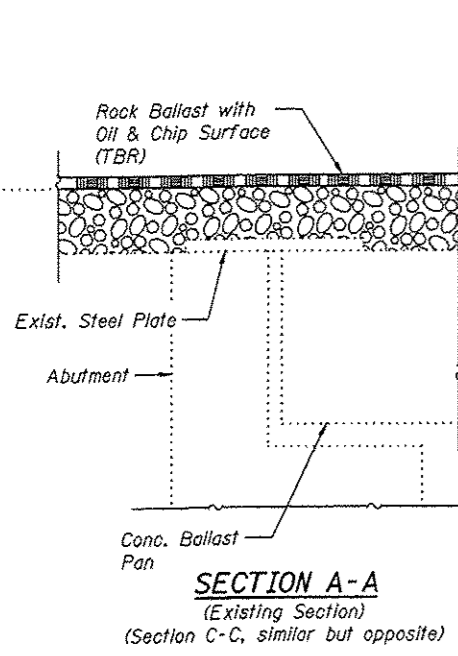
EXISTING CROSS SECTION
(Looking East)



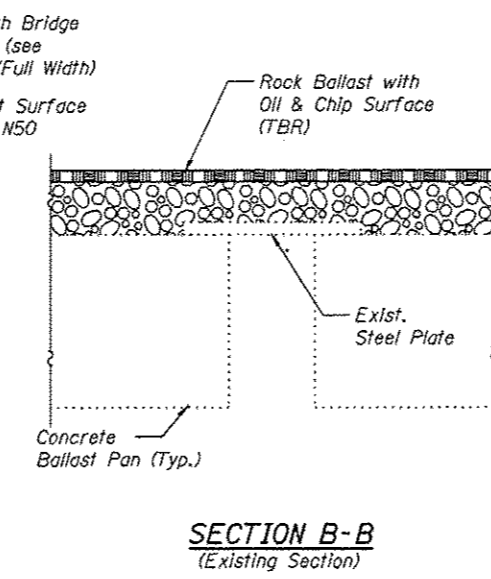
PROPOSED CROSS SECTION
(Looking East)



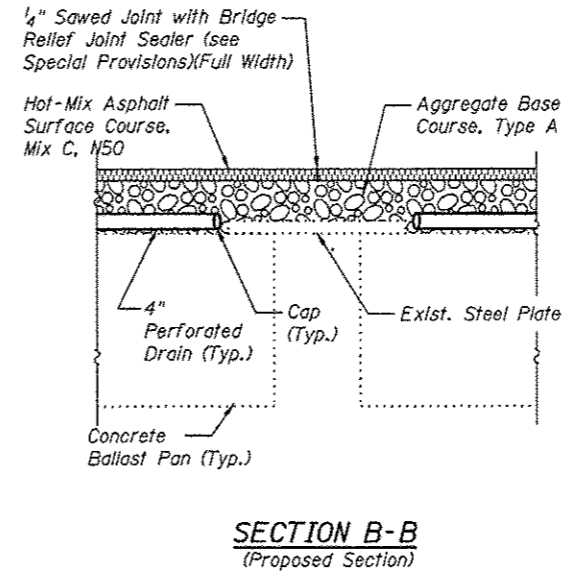
SECTION D-D
(Looking East)



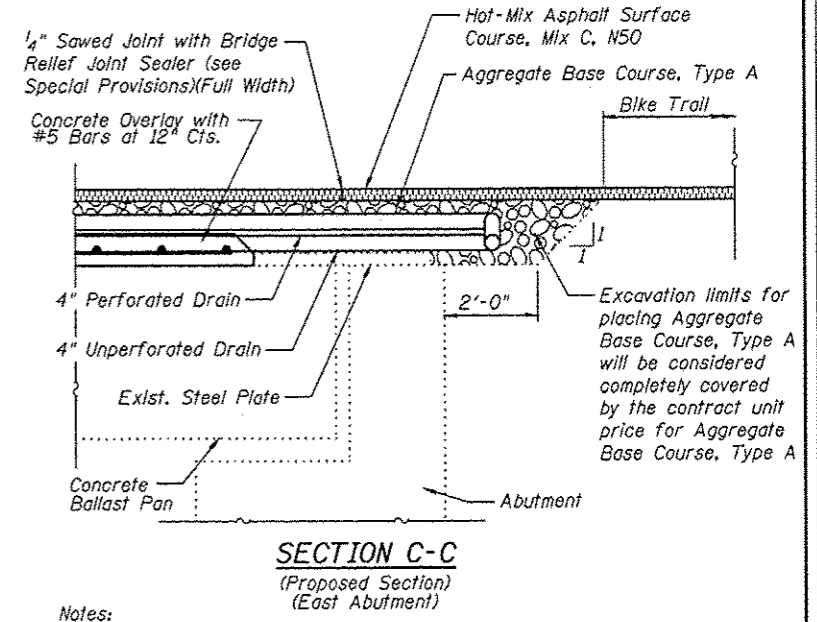
SECTION A-A
(Proposed Section)
(West Abutment)



SECTION B-B
(Existing Section)



SECTION B-B
(Proposed Section)



SECTION C-C
(Proposed Section)
(East Abutment)

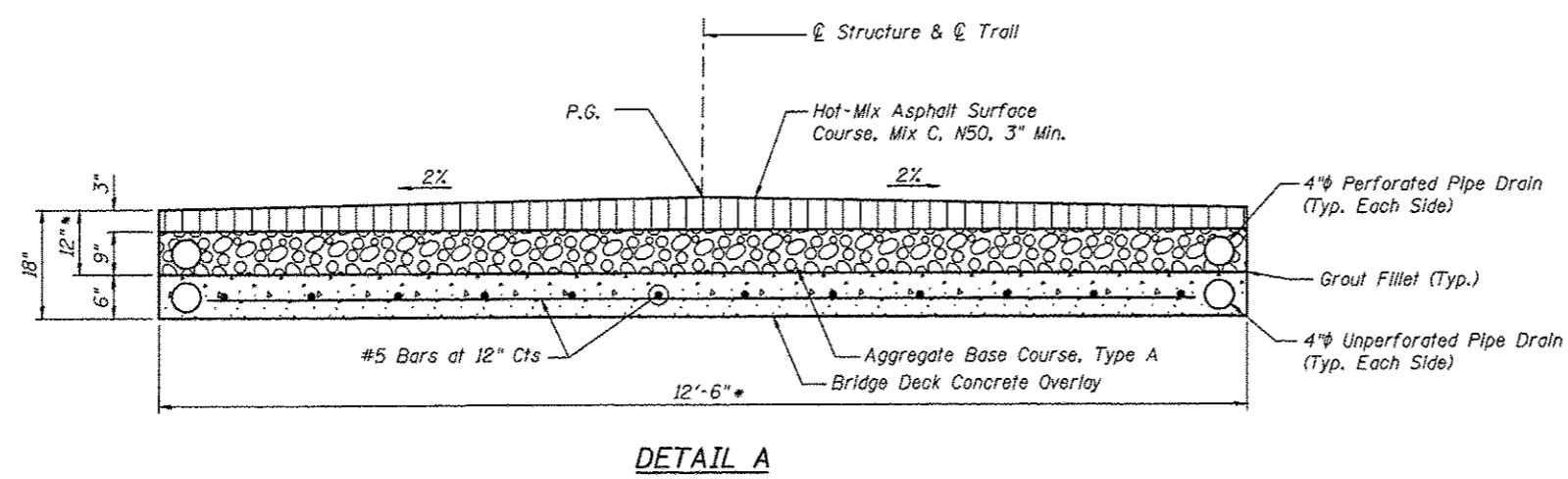
Notes:

All dimensions are approximate.

For location of Section A-A, B-B, C-C and D-D, see Sheet 1

Included in the cost of Pipe Underdrains for Structures.

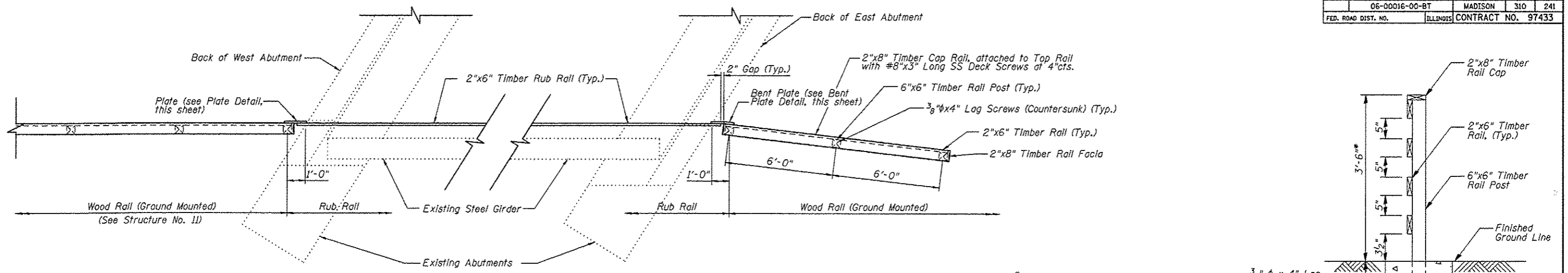
* Limits of Waterproofing Membrane System. The Waterproofing Membrane System shall consist of penetrating primer, a built-up coal tar pitch emulsion membrane with two plies of coated glass fabric, and a 1/2" thick asphalt sand seal protection layer. The Waterproofing Membrane System shall be per Section 581 of the IDOT Standard Specifications for Road and Bridge Construction (Latest Edition)



DETAIL A

REVISIONS				SCALE:	
NO.	DATE	BY	REMARKS	NOT TO SCALE, FOLLOW DIMENSIONS	
				DSN. BY:	DB
				DATE:	10/18/12
				DWN. BY:	EER
				DATE:	10/18/12
				CHK'D:	WWH
				DATE:	10/18/12
DGN NAME:				JOB NO.	E064403
DGN NO.:				DGN NO.:	DF 810 8HTB

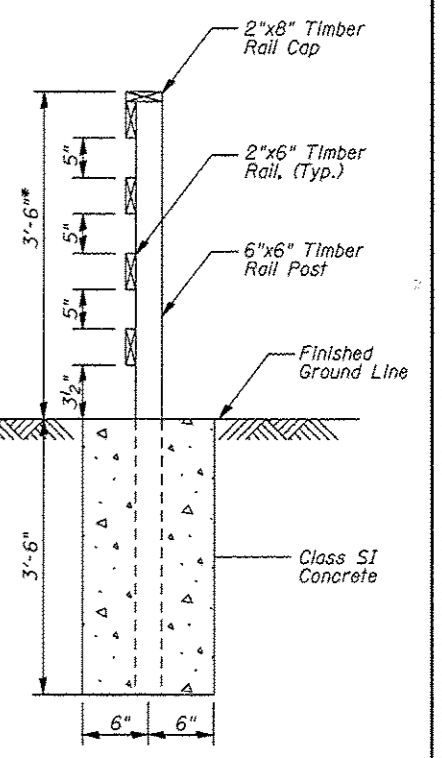
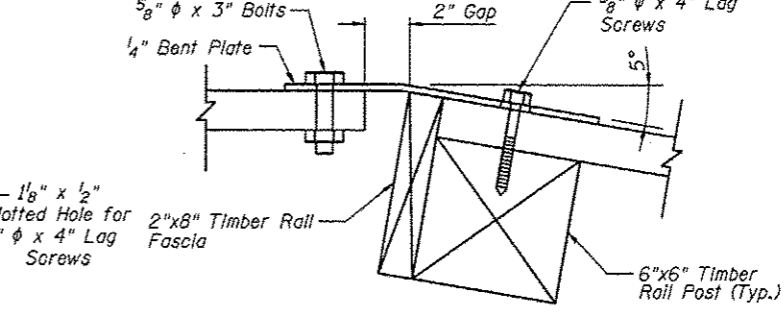
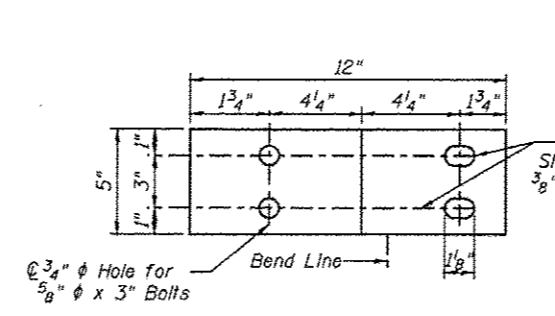
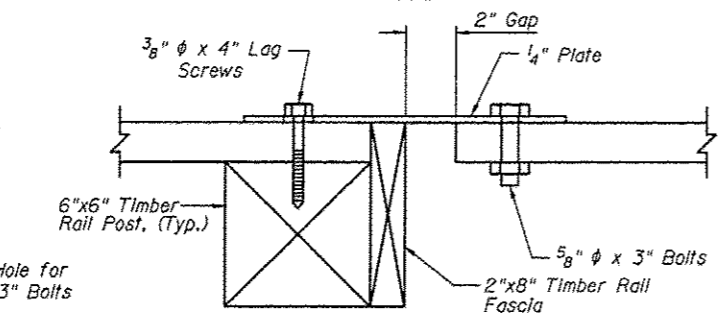
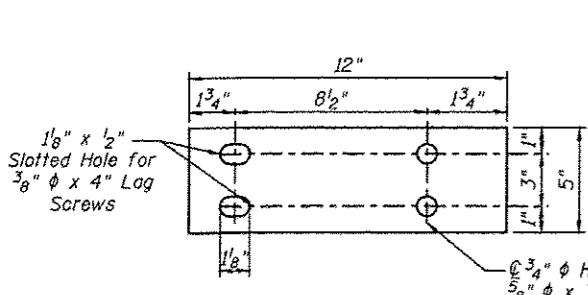
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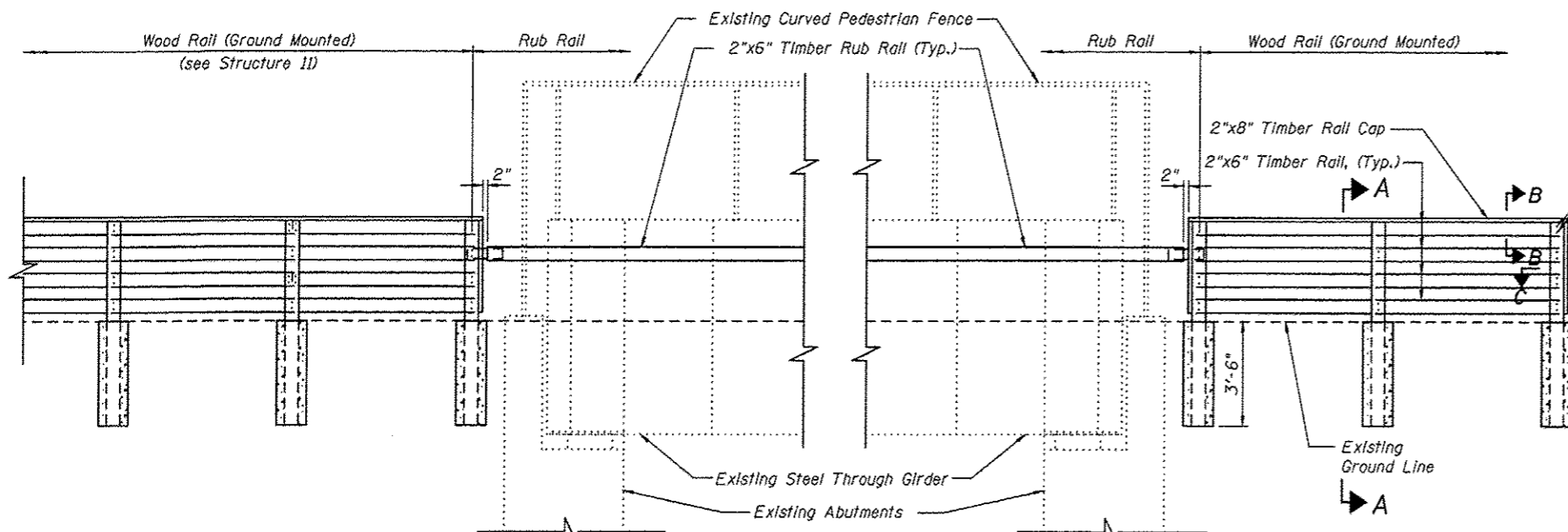
WEST APPROACH

EAST APPROACH

PLAN



SECTION A-A

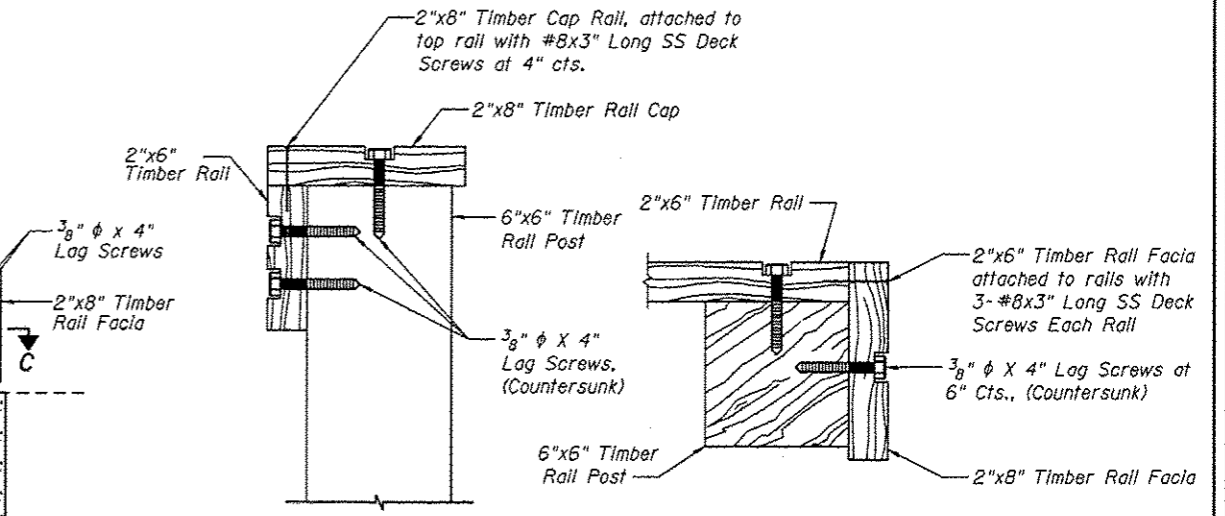


WEST APPROACH

EAST APPROACH

ELEVATION

BENT PLATE DETAIL



SECTION C-C

**WOOD RAIL
BILL OF MATERIAL**

Item	Unit	Quantity
Wood Rail	Foot	24

No splices allowed on end railing.

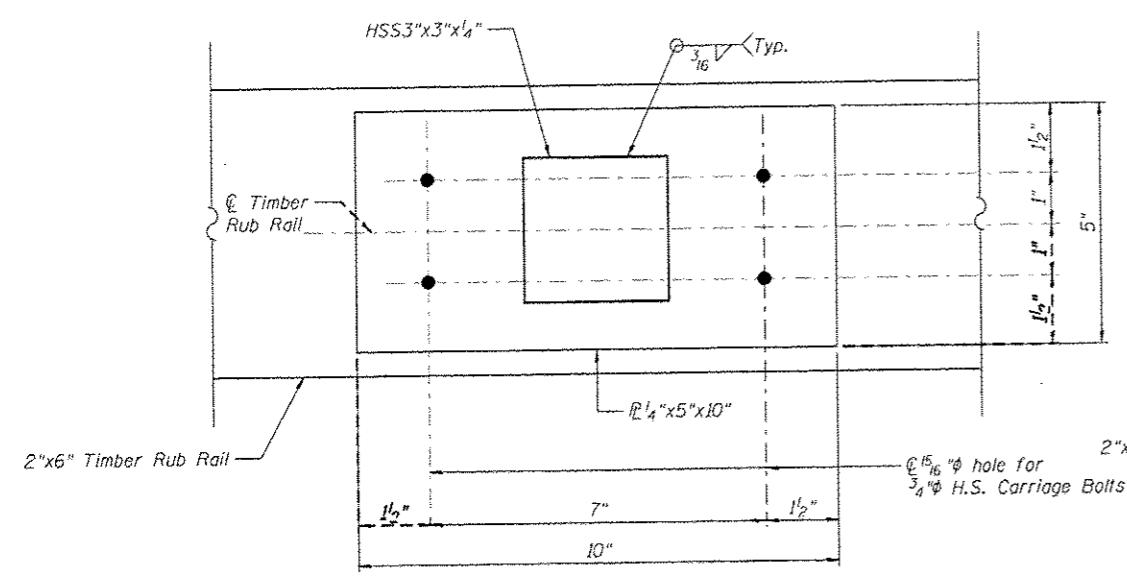
Payment for furnishing & installing all material, necessary to construct the wood rail, including all posts, rails, rail cap, bent plate, hardware, excavation, Class SI concrete and all other appurtenances and incidental work, complete in place, will be considered completely covered by the contract unit price per foot for wood rail.

* Top of top timber rail shall be installed a minimum of 3'-6" above the finished groundline. Adjust post length according in field.

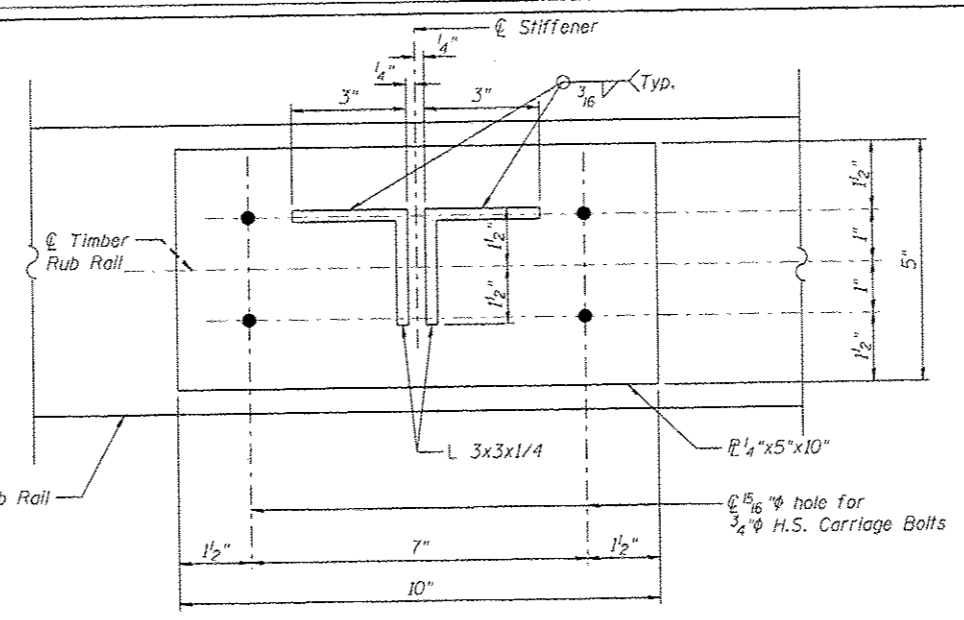
<p>Juneau Associates, Inc. P.C. CONSULTING ENGINEERS AND LAND SURVEYORS 2100 State Street, P.O. Box 1235 Granite City, Illinois 62540 Phone: (618) 317-1400 Fax: (618) 317-5041</p>		<p>GLEN CARBON HERITAGE BIKE TRAIL OVER INERSTATE 55 MADISON COUNTY STATION 389+60 STRUCTURE 12</p>									
<p>REVISIONS</p> <table border="1"> <thead> <tr> <th>NO.</th> <th>DATE</th> <th>BY</th> <th>REMARKS</th> </tr> </thead> <tbody> <tr> <td> </td> <td> </td> <td> </td> <td> </td> </tr> </tbody> </table>		NO.	DATE	BY	REMARKS					<p>SCALE: NOT TO SCALE, FOLLOW DIMENSIONS</p>	
NO.	DATE	BY	REMARKS								
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<p>DWN. BY: EER</p>		<p>DATE: 10/18/12</p>									
<p>CHK'D: WWH</p>		<p>DATE: 10/18/12</p>									
<p>DGN NAME:</p>		<p>JOB NO. E064403 DGN. NO. OF 810 SHEETS</p>									

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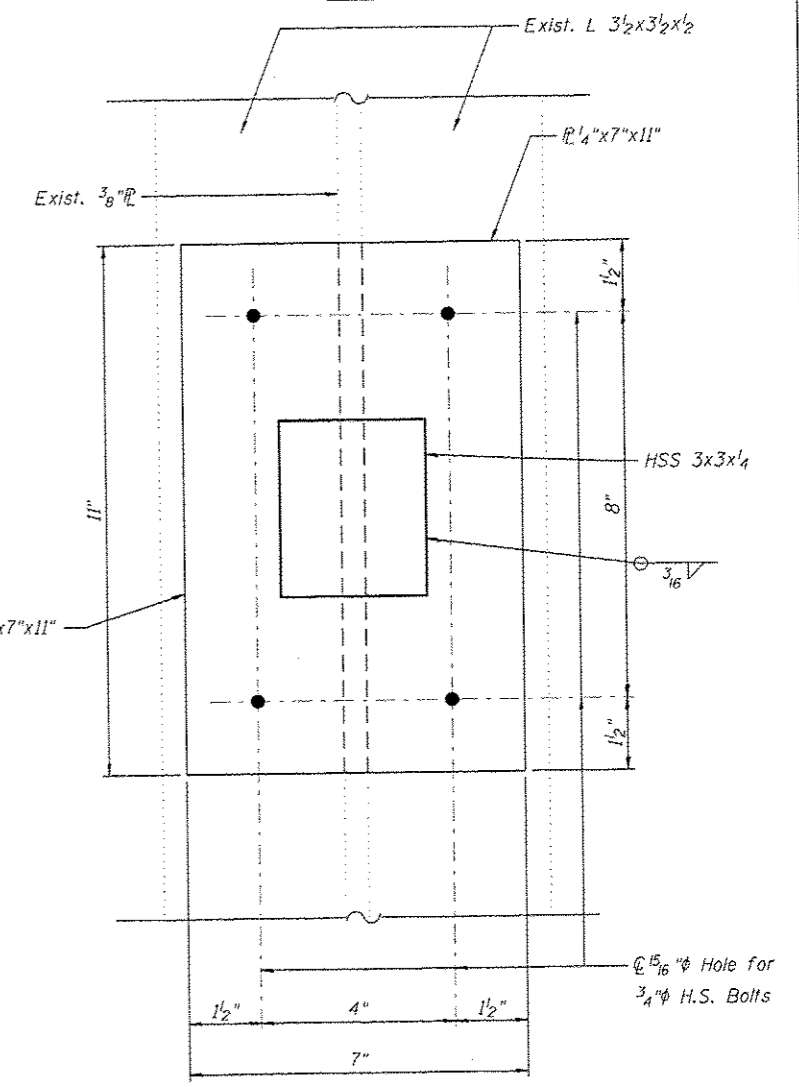
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FED. ROAD DIST. NO.	ILLINOIS	CONTRACT NO. 97433		



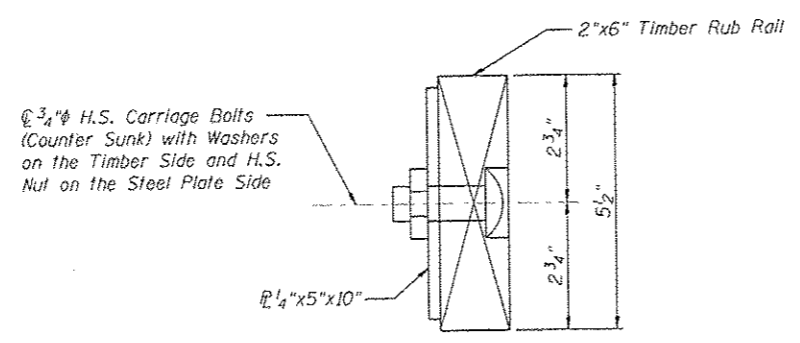
SECTION A-A



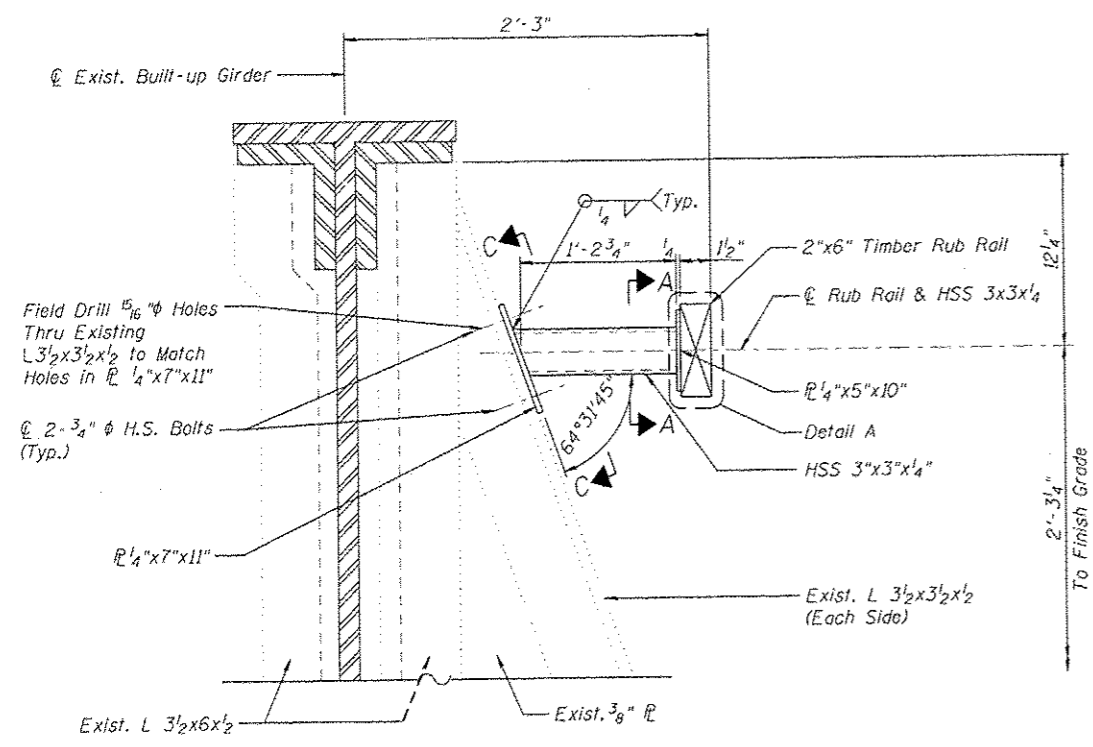
SECTION B-B



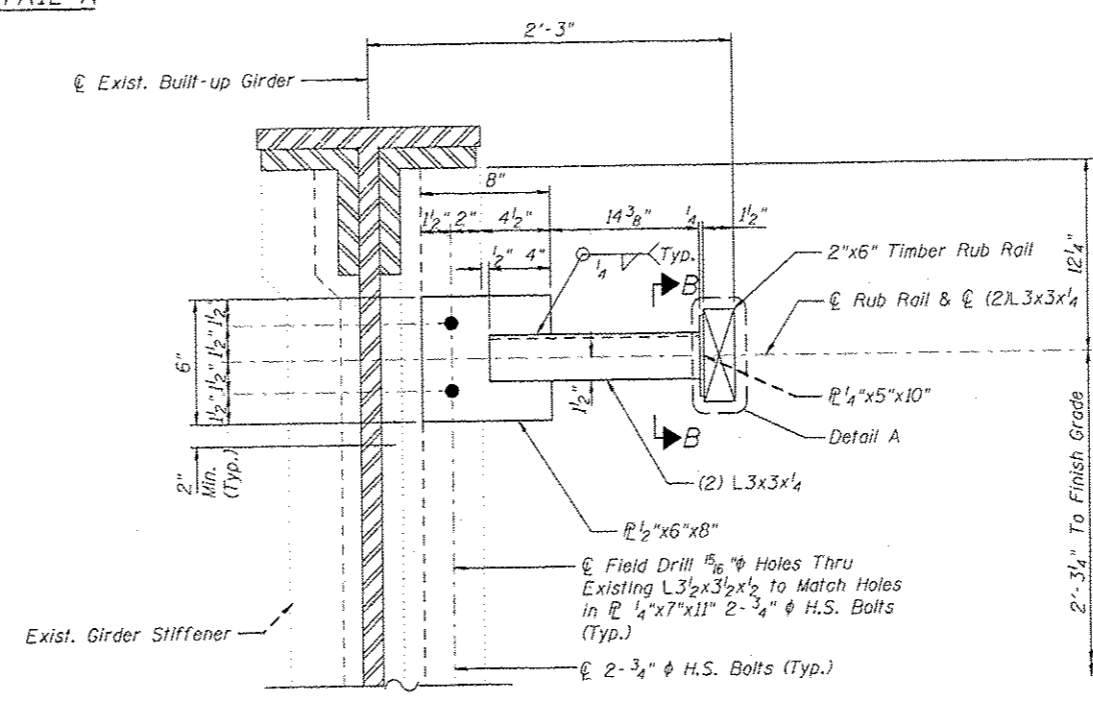
SECTION C-C



DETAIL A



AT REINFORCED STIFFENER
(No. Required = 28)



AT STIFFENER
(No. Required = 28)

Notes:

Rub Rail Steel Support Structure shall be hot dipped galvanized.

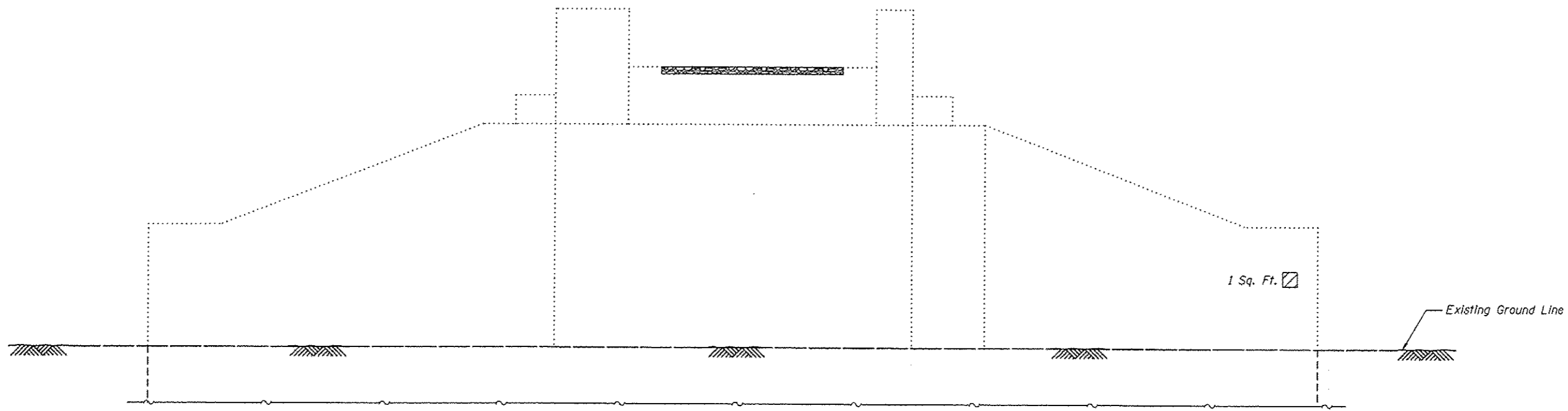
All new structural steel, including hollow tubing, angles and plates, shall conform to AASHTO M270 in accordance with Article 1006.04 and shall be hot dipped galvanized according to AASHTO M232. All hardware including bolts, washers and nuts shall be stainless steel in accordance with Article 1006.29(d) of the Standard Specifications.

Payment for furnishing and installing all material and labor necessary to construct the rub rail, including the plates, steel tubing, angles, hot dipped galvanizing, field drilling existing structural steel, timber rail, bolts, and all other appurtenances and incidental work as shown, complete in place, will be considered completely covered by the contract unit price for Rub Rail per foot.

RUB-RAIL STEEL SUPPORT STRUCTURE DETAIL


		RUB-RAIL DETAILS	
Juneau Associates, Inc. P.C. CONSULTING ENGINEERS AND LAND SURVEYORS 3100 State Street, P.O. Box 1225 Granite City, Illinois 62040 Phone: (618) 337-4100 Fax: (618) 337-4541		GLEN CARBON HERITAGE BIKE TRAIL OVER INERSTATE 55 MADISON COUNTY STATION 389+60 STRUCTURE 12	
REVISIONS NO. DATE BY REMARKS		SCALE: NOT TO SCALE, FOLLOW DIMENSIONS	
DSN. BY: DB DATE: 10/18/12 OWN. BY: EER DATE: 10/18/12 CHK'D: WWH DATE: 10/18/12		SHEET 242	
DGN NAME:		JOB NO. E064403 DGN. NO. DF 310 SHS	

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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FED. ROAD DIST. NO.	ILLINOIS CONTRACT NO.		97433	




WEST ABUTMENT
(Looking West)

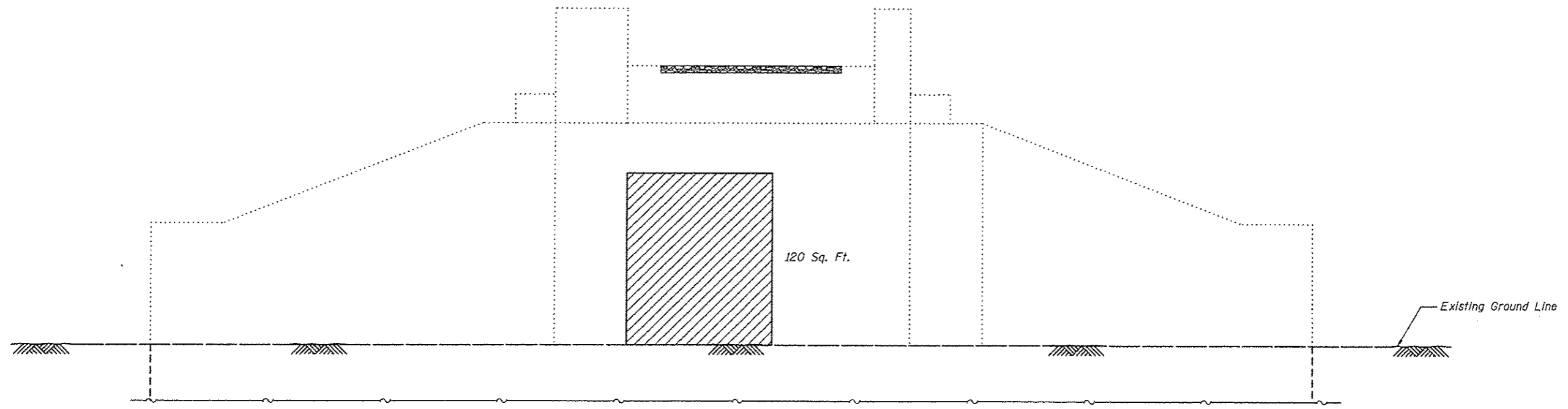
Legend

 Remove deterioration down to sound concrete. Fill Area with Structural Repair Concrete.

Printed 11:06:44 AM 12/21/2012 \\NAS\STRUCT\E064403\IMCT\Heritage Trail\Drawings\Structure #12\Proposed Structure (DT-2012)\107-08\1243-2441 East & West Abutment.dgn


 JunEAU Associates, Inc. P.C. <small>CONSULTING ENGINEERS AND LAND SURVEYORS</small> 2100 State Street, P.O. Box 1205 Granite City, Illinois 62040 Phone: (618) 521-5100 Fax: (618) 521-5541		WEST ABUTMENT GLEN CARBON HERITAGE BIKE TRAIL OVER INERSTATE 55 MADISON COUNTY STATION 389+60 STRUCTURE 12																	
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DSN BY: DB		DATE: 10/18/12																	
DWN BY: EER		DATE: 10/18/12																	
CHK'D: WWH		DATE: 10/18/12																	
SHEET		243																	
DGN NO.		OF 310 SHEETS																	

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	06-00016-00-BT	MADISON	310	244
FED. ROAD DIST. NO.	ILLINOIS	CONTRACT NO. 97433		




East Abutment
(Looking East)

Legend

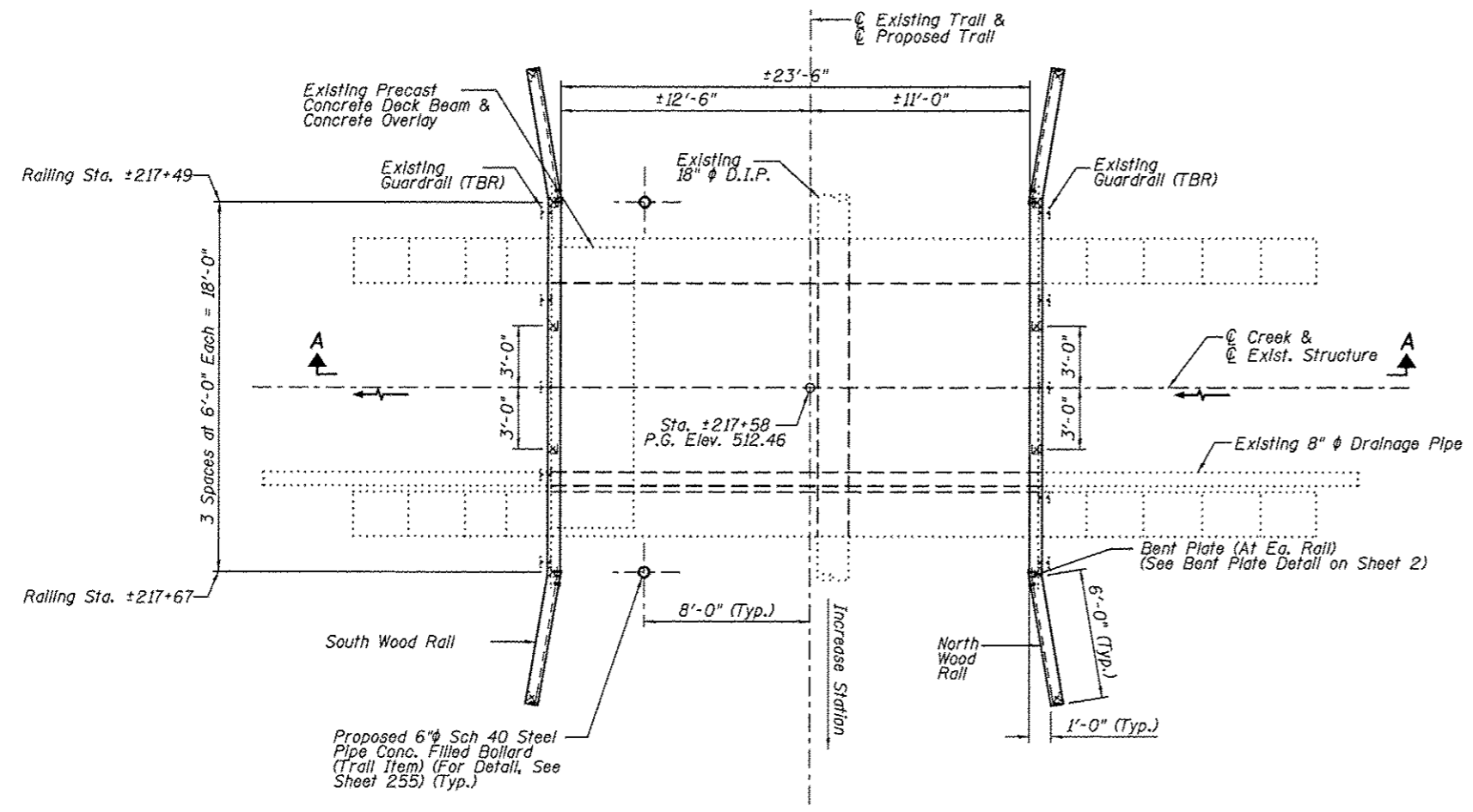
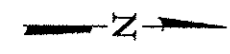
 Remove deterioration down to sound concrete. Fill Area with Structural Repair Concrete.

**SUBSTRUCTURE REPAIR
BILL OF MATERIAL**

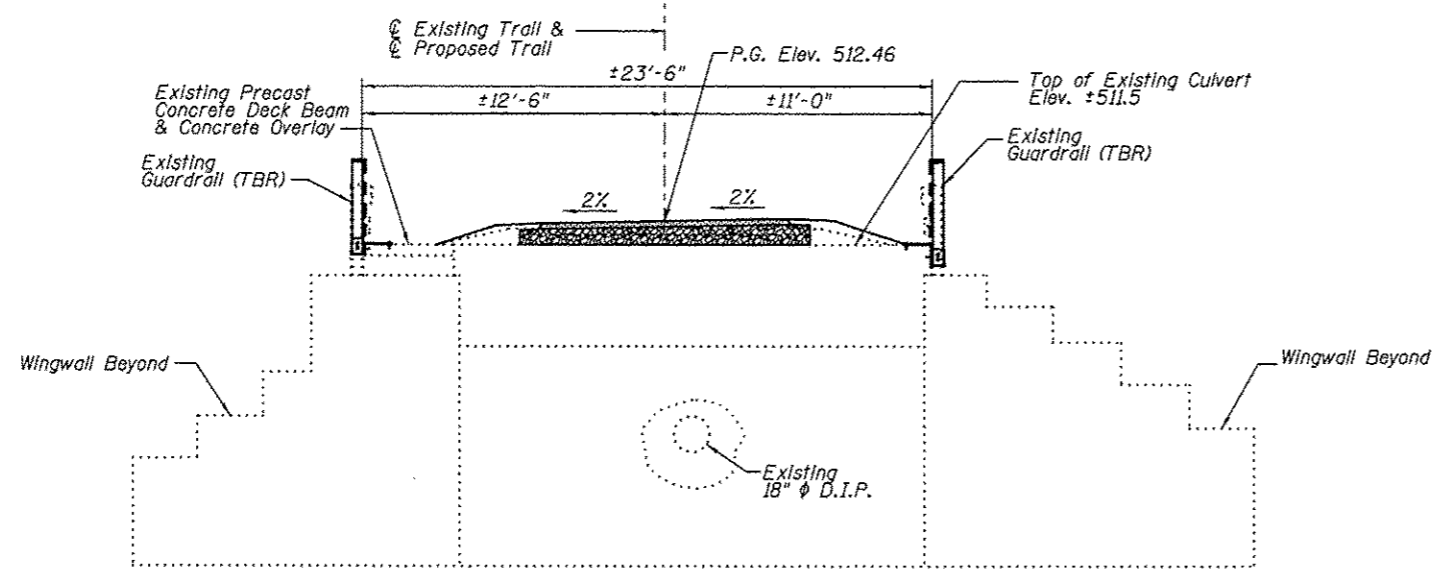
Item	Unit	Quantity
Structural Repair	Sq. Ft.	120

 Juneau Associates, Inc. P.C. CONSULTING ENGINEERS AND LAND SURVEYORS 2180 State Street, P.O. Box 1025 Granite City, Illinois 62040 Phone: (618) 227-1100 Fax: (618) 227-0511		EAST ABUTMENT GLEN CARBON HERITAGE BIKE TRAIL OVER INERSTATE 55 MADISON COUNTY STATION 389+60 STRUCTURE 12	
		SCALE: NOT TO SCALE, FOLLOW DIMENSIONS	
NO.	DATE	BY	REMARKS
DGN NAME:		JOB NO. E064403	DGN. NO.

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PLAN



SECTION A-A
(Looking West)

DUE TO UNKNOWN DESIGN AND DETAIL OF THE 10" DEEP PRECAST CONCRETE DECK BEAM, POSTING OF THIS STRUCTURE IS UNKNOWN.

Notes:

The contractor shall assume full responsibility for imposed construction loading on the existing deteriorated bridge structures prior to the repair work being performed.

All dimensions are approximate.

All new timber members shown shall be included in the pay item Wood Rail.

Treated timber shall be according to Sections 507 and 1007 of the Standard Specifications. Wood members shall be free of knots warping and twisting and visually graded No. 1 Southern Pine or No. 1 Douglas Fir - Larch, or approved equivalent.

Plan dimensions and details relative to existing structure 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.

Bolt holes in lumber shall be in accordance with Article 507.08 of the IDOT Standard Specifications.

All dimensions are shown in inches unless otherwise noted.

Lumber sizes shown are nominal dimensions in inches. Lumber shall be surfaced four sides.

Holes for all hardware shall be predrilled to avoid splitting.

All Structural Steel, including angles and plates, shall conform to AASHTO M270 in accordance with Article 1006.04 and shall be hot dipped galvanized according to AASHTO M232.

Bolts and lag screws shall conform to ASTM A307. All hardware including anchors, plates, bolts, screws, nails, nuts and washers, etc. shall be stainless steel in accordance with Article 1006.17 of the IDOT Standard Specifications, unless otherwise noted.

Fence Rail and Wood Rail are designed for horizontal loading of 50 lb/ft per horizontal rail only, in accordance with AASHTO Article 2.7.3

**WOOD RAIL
BILL OF MATERIAL**

Item	Unit	Quantity
Wood Rail	Foot	60

I certify to the best of knowledge, information and belief, this wood rail design is structurally adequate for the design loading shown on the plans. The design is an economical one for the style of structure and complies with requirements of the current AASHTO Standard Specification for Highway Bridges.

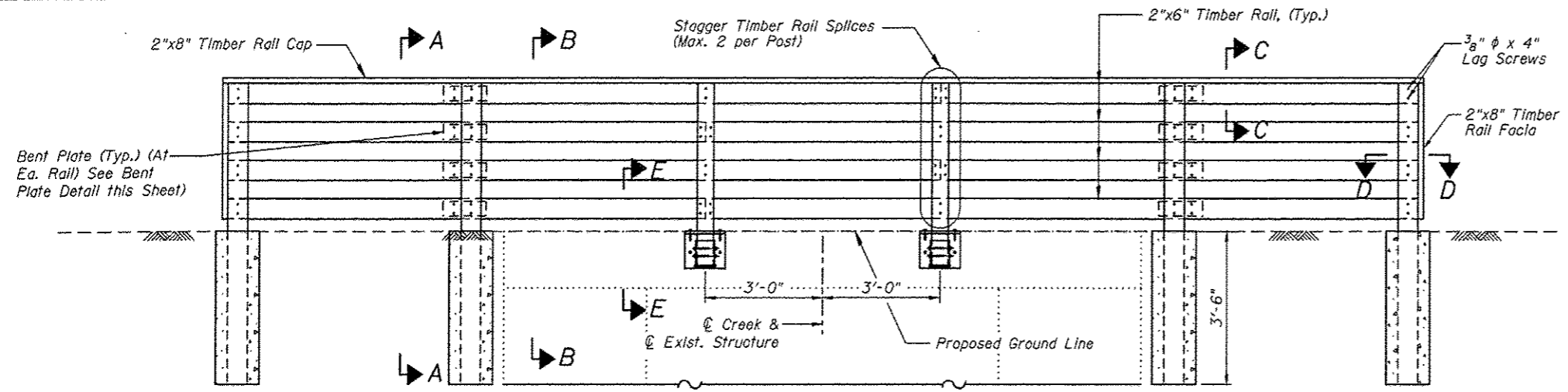


Wesley W. Herndon
WESLEY W. HERNDON, S.E.
DATE: 12/13

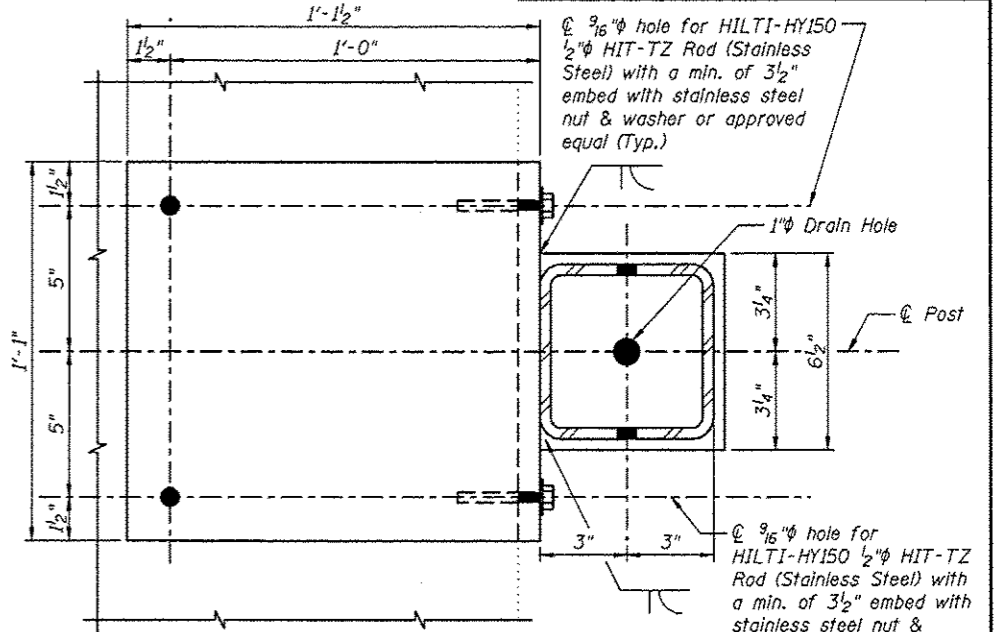
 CONSULTING ENGINEERS AND LAND SURVEYORS 2100 319th Street, P.O. Box 1328 Granite City, Illinois 62040 Phone: (618) 947-1400 Fax: (618) 947-5911		GLEN CARBON HERITAGE BIKE TRAIL OVER JUDY'S BRANCH MADISON COUNTY STATION 217+58 STRUCTURE 13									
REVISIONS <table border="1"> <thead> <tr> <th>NO.</th> <th>DATE</th> <th>BY</th> <th>REMARKS</th> </tr> </thead> <tbody> <tr> <td> </td> <td> </td> <td> </td> <td> </td> </tr> </tbody> </table>		NO.	DATE	BY	REMARKS					SCALE: NOT TO SCALE, FOLLOW DIMENSIONS	
NO.	DATE	BY	REMARKS								
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DWN BY: EER		DATE: 10/18/12									
CHK'D: WWH		DATE: 10/18/12									
SHEET NO. 245		OF 310 SHEETS									

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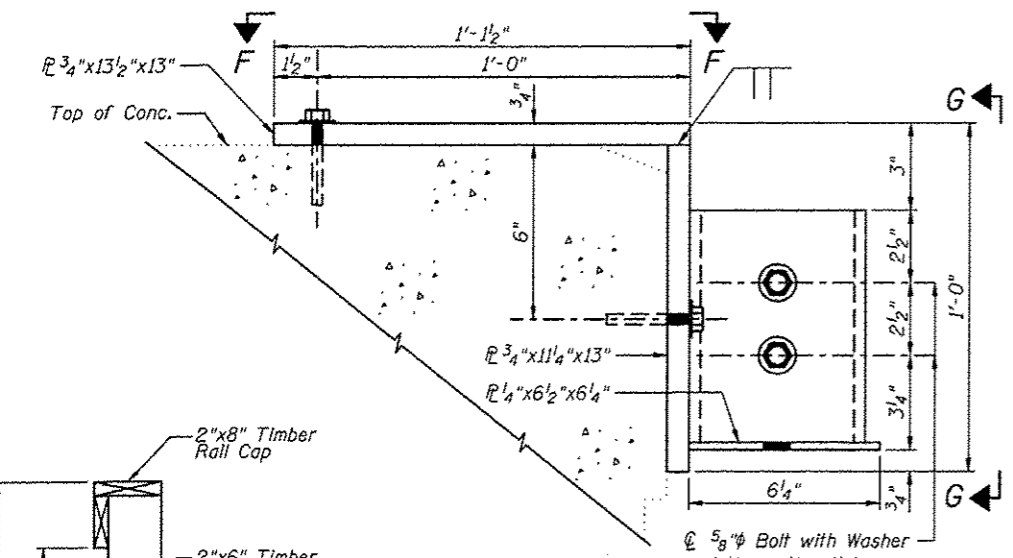
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FED. ROAD DIST. NO.	ILLINOIS CONTRACT NO. 97433			



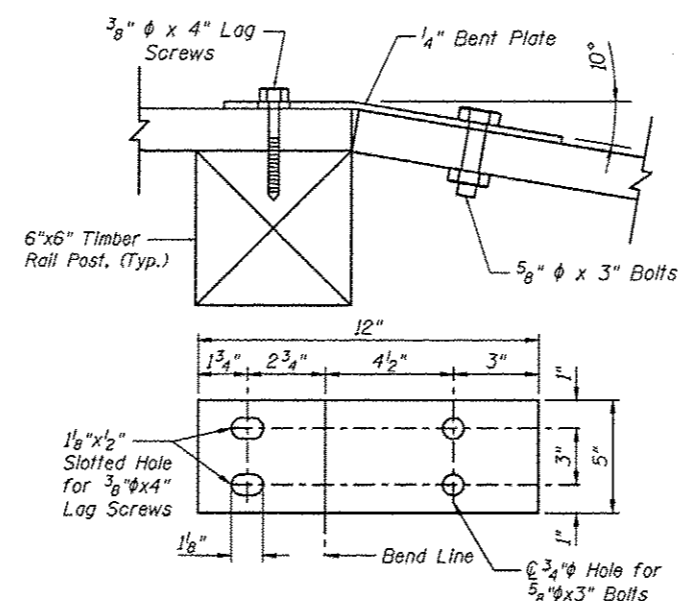
NORTH WOOD RAIL ELEVATION
(Looking South)



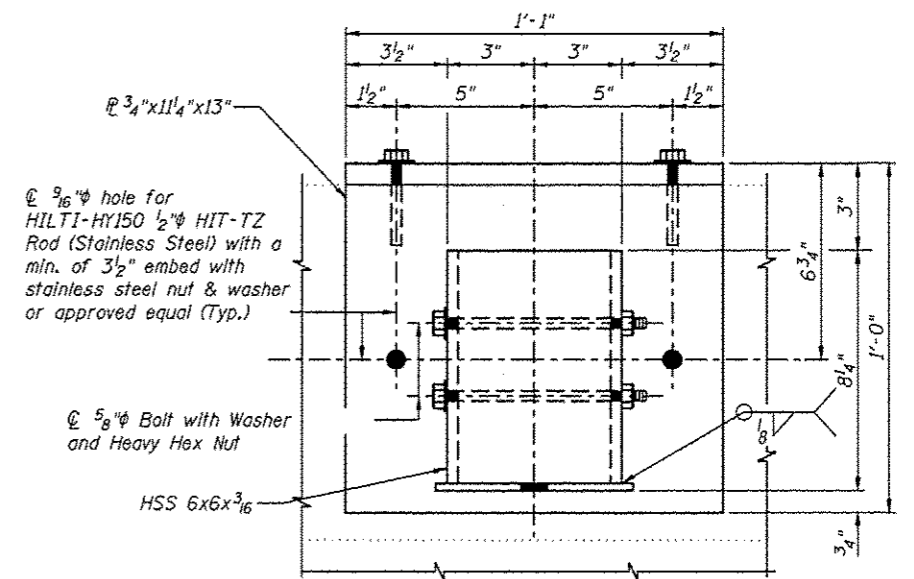
VIEW F-F



SECTION E-E



BENT PLATE DETAIL



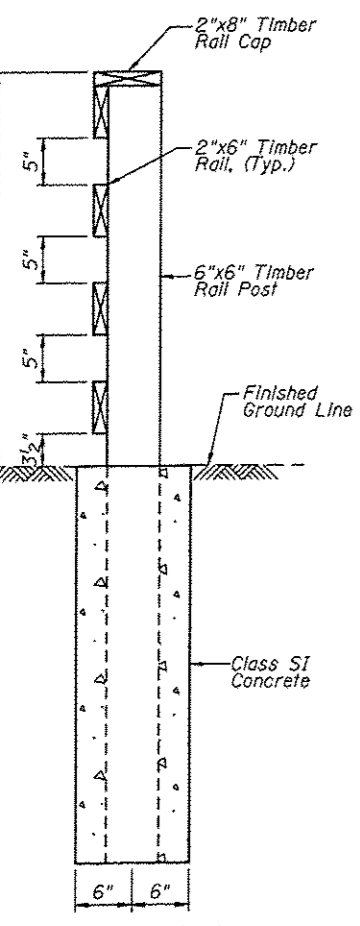
VIEW G-G

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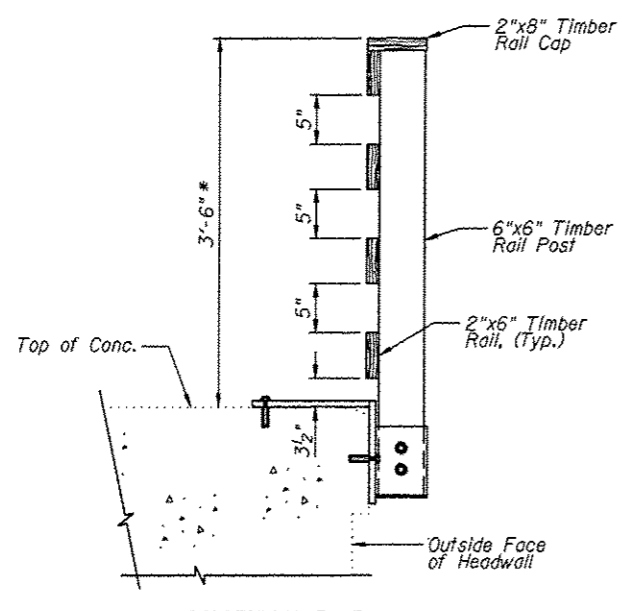
No splices allowed on end railing.

Payment for furnishing & installing all material, necessary to construct the wood rail, including all steel tubing, plates, hot dipped galvanizing, anchors, posts, rails, rail cap, bent plate, hardware, excavation, Class SI concrete, field drilling into existing concrete and all other appurtenances and incidental work, complete in place, will be considered completely covered by the contract unit price per foot for Wood Rail.

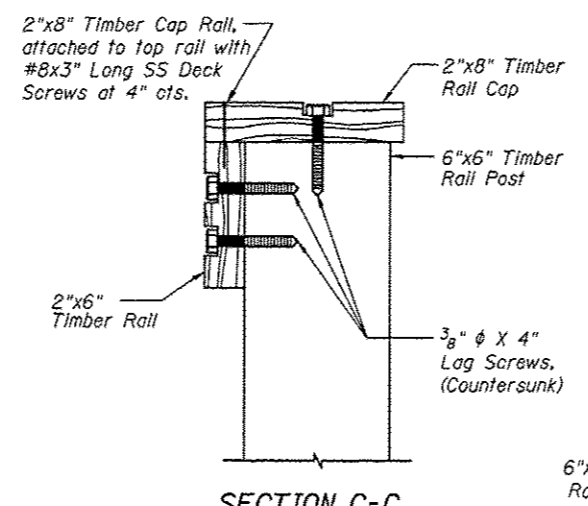
* Top of top timber rail shall be installed a minimum of 3'-6" above the finished groundline. Adjust post length according in field.



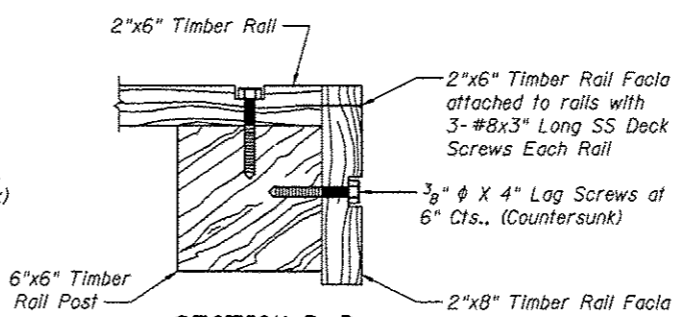
SECTION A-A



SECTION B-B



SECTION C-C



SECTION D-D

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				DATE:	10/18/12
				DWN. BY:	EER
				DATE:	10/18/12
				CHK'D:	WNH
				DATE:	10/18/12
DGN. NAME:				JOB NO. E064403	DGN. NO.

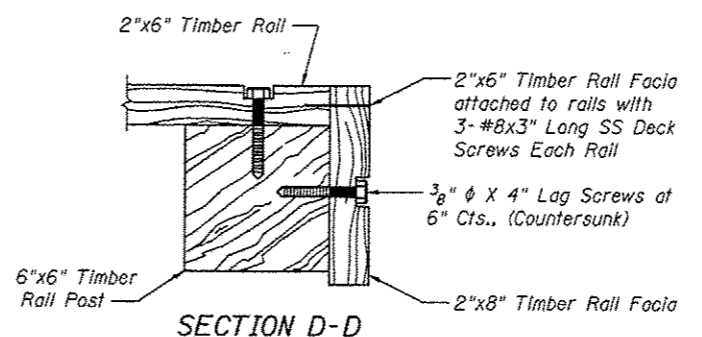
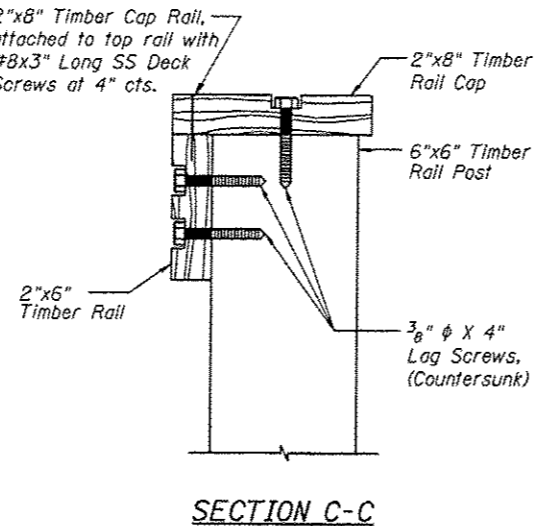
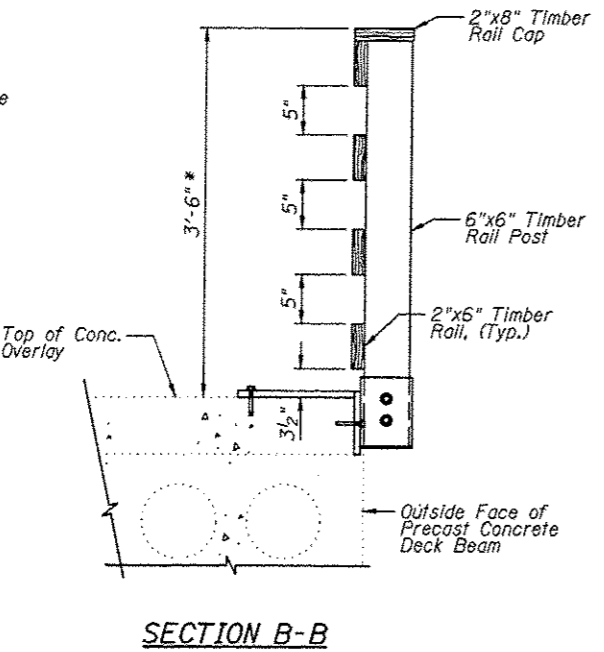
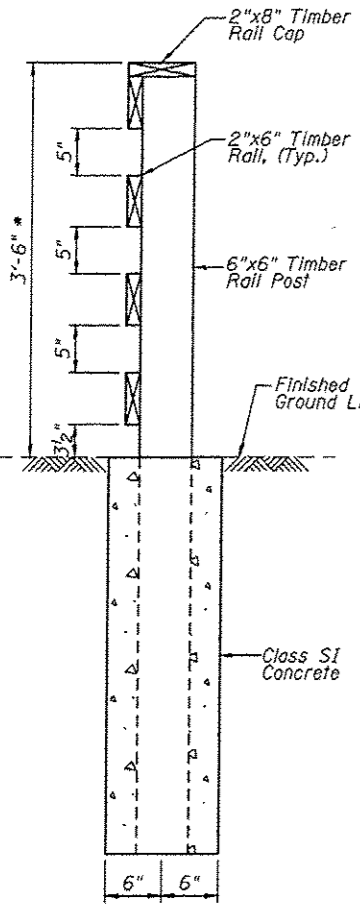
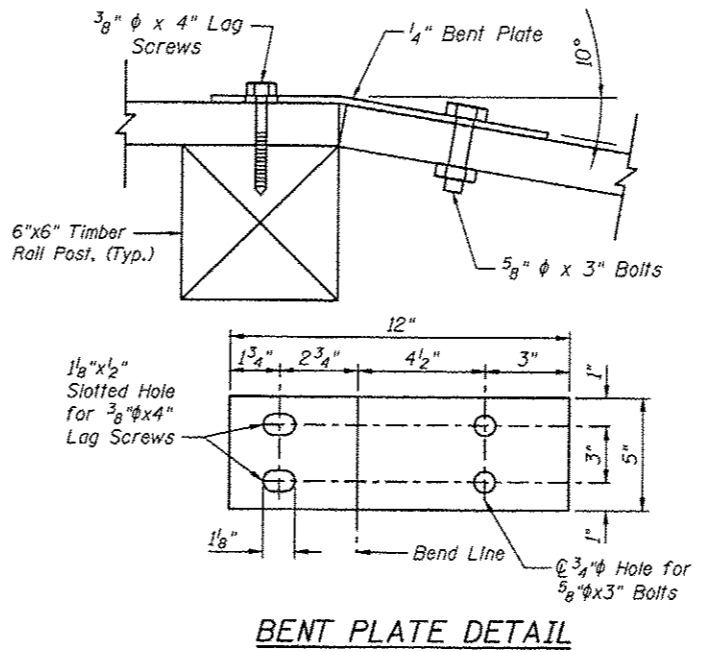
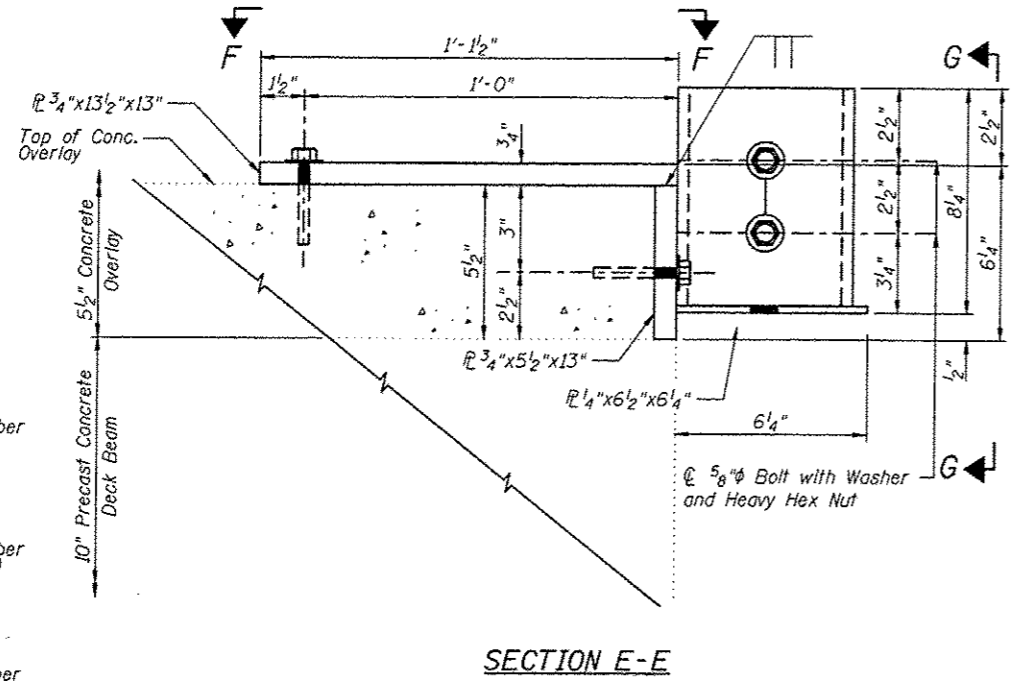
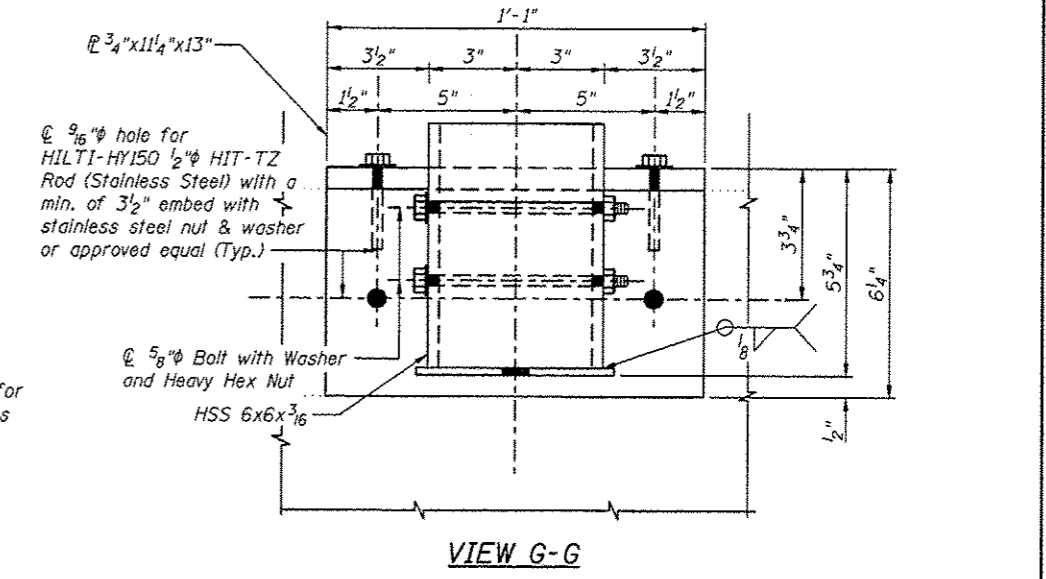
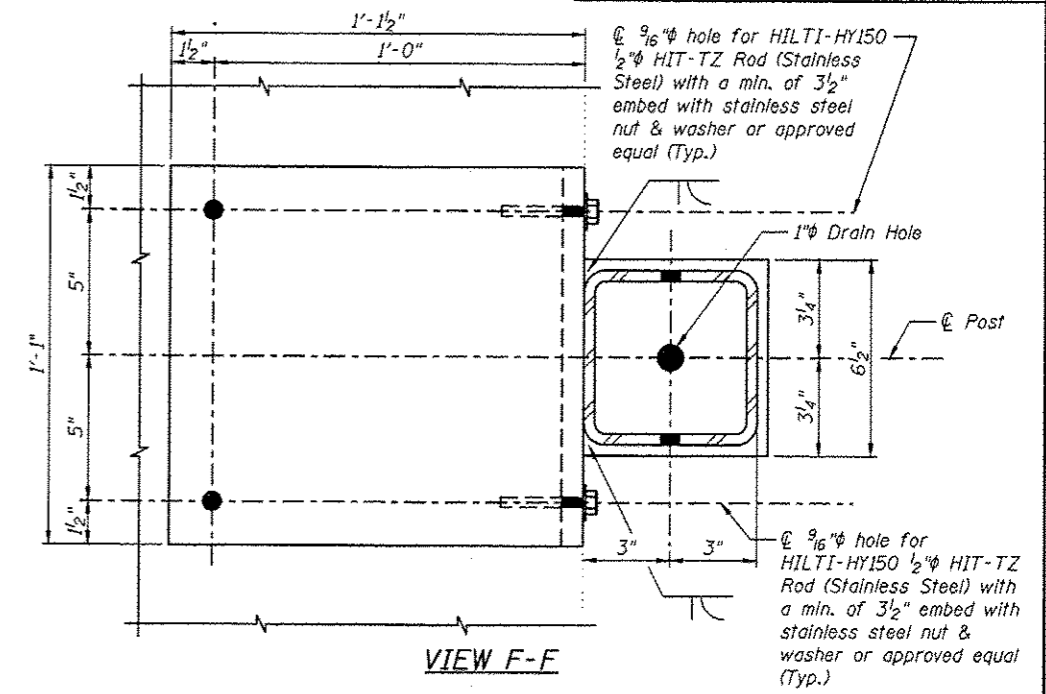
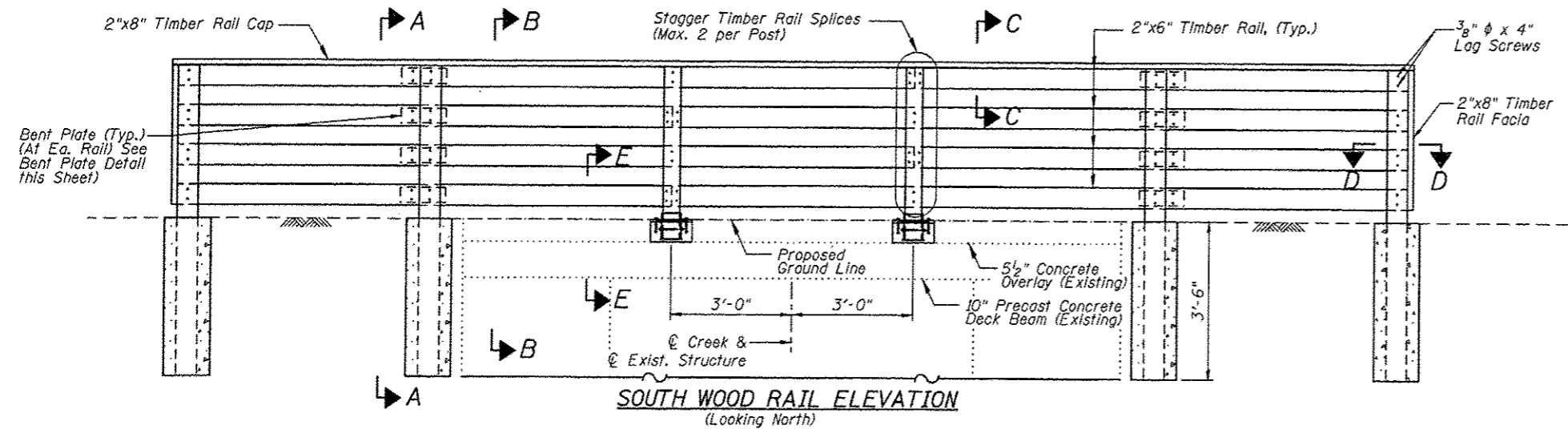
NORTH WOOD RAIL DETAILS
GLEN CARBON HERITAGE
BIKE TRAIL OVER JUDY'S BRANCH
MADISON COUNTY
STATION 217+58
STRUCTURE 13

Juneau Associates, Inc. P.C.
CONSULTING ENGINEERS AND LAND SURVEYORS
2150 North 1st Street, P.O. Box 1525
Madison, IL 61702
Phone: (314) 387-1100
Fax: (314) 387-0911

100 North Research Drive
Lombard, IL 61108
Phone: (630) 261-8000
Fax: (630) 261-9011

Printed: 10/16/12 AM 12/21/2012 \\FA\STRUCT\1064403\MCRT Heritage Trail\Drawings\Structure 13\Proposed Structure 13\Elevations.dgn

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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FED. ROAD DIST. NO.	ILLINOIS	CONTRACT NO.	97433	



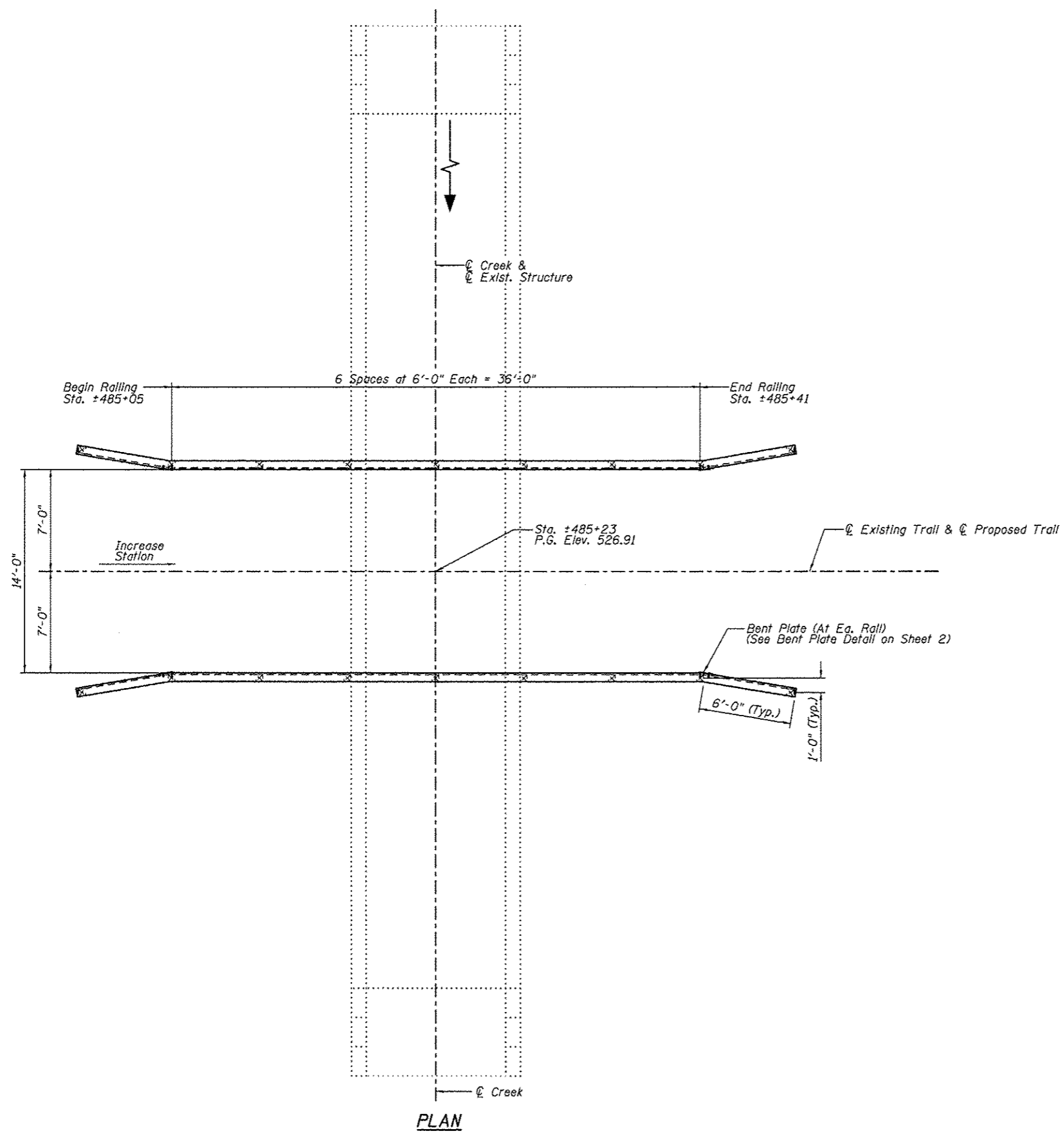
Note:
No splices allowed on end ralling.

Payment for furnishing & installing all material, necessary to construct the wood rail, including all steel tubing, plates, hot dipped galvanizing, anchors, posts, rails, rail cap, bent plate, hardware, excavation, Class SI concrete, field drilling into existing concrete and all other appurtenances and incidental work, complete in place, will be considered completely covered by the contract unit price per foot for Wood Rail.

*Top of top timber rail shall be installed a minimum of 3'-6" above the finished groundline. Adjust post length according in field.

REVISIONS				SCALE: NOT TO SCALE, FOLLOW DIMENSIONS	
NO.	DATE	BY	REMARKS	DEN. BY:	SHEET
				DB	10/18/12
				EER	10/18/12
				WWH	10/18/12
DGN NAME:				JOB NO. E064403	DGN. NO.

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 Printed



PLAN

Notes:

- All dimensions are approximate.
- All new timber members shown shall be included in the pay item Wood Rail.
- Treated timber shall be according to Sections 507 and 1007 of the Standard Specifications. Wood members shall be free of knots warping and twisting and visually graded No. 1 Southern Pine or No. 1 Douglas Fir - Larch, or approved equivalent.
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- All dimensions are shown in inches unless otherwise noted.
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- Fence Rail and Wood Rail are designed for horizontal loading of 50 lb/ft per horizontal rail only. In accordance with AASHTO Article 2.7.3

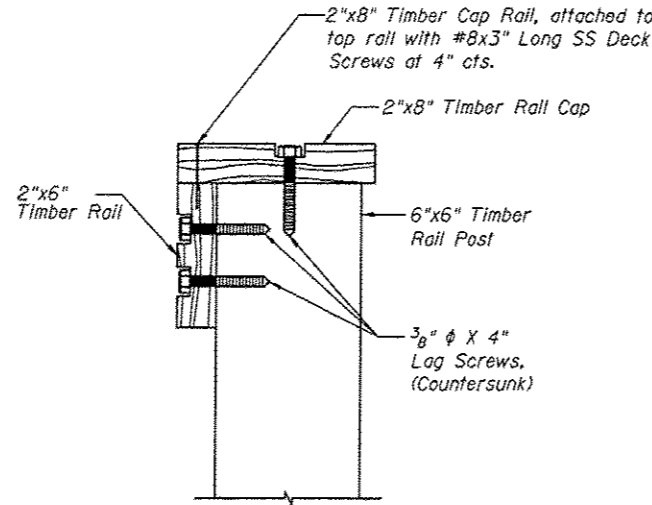
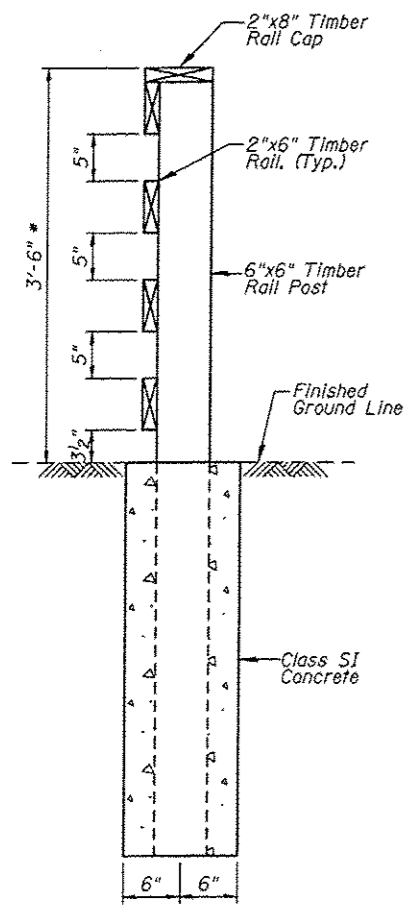
I certify to the best of knowledge, information and belief, this wood rail design is structurally adequate for the design loading shown on the plans. The design is an economical one for the style of structure and complies with requirements of the current AASHTO Standard Specification for Highway Bridges.



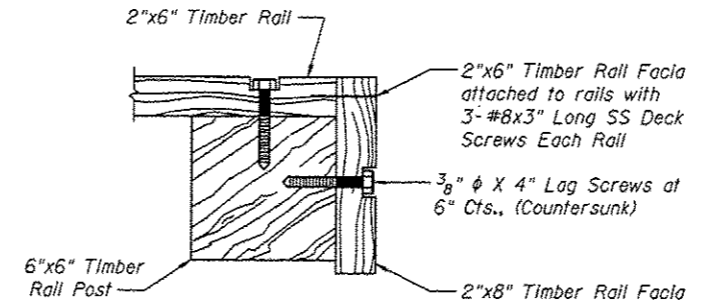
Wesley W. Herndon
 WESLEY W. HERNDON, S.E. DATE 1/2/13

Juneau Associates, Inc. P.C. CONSULTING ENGINEERS AND LAND SURVEYORS 2100 State Street, P.O. Box 1125, Springfield, Illinois 62704 Phone: (618) 242-9941 Fax: (618) 242-9941		PLAN GLEN CARBON HERITAGE BIKE TRAIL OVER CREEK MADISON COUNTY STATION 485+23 STRUCTURE NO. 14	
REVISIONS NO. DATE BY REMARKS		SCALE: NOT TO SCALE, FOLLOW DIMENSIONS	
DSN. BY: DB DATE: 10/18/12		SHEET 248	
DWN. BY: EER DATE: 10/18/12		OF 310 SHTS	
CHK'D: WWH DATE: 10/18/12		DGN NAME:	
DGN NAME:		JOB NO. E064403 DGN NO.	

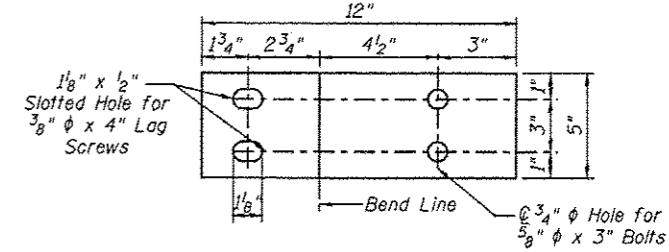
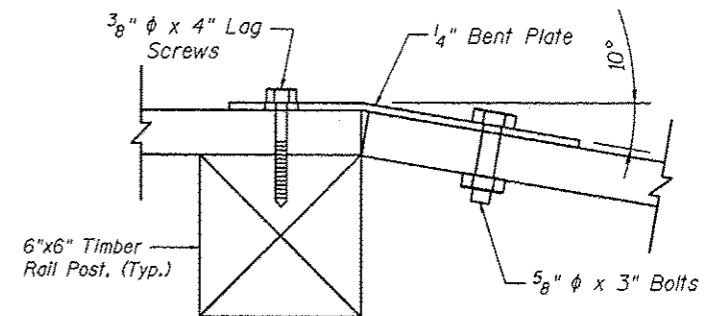
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FED. ROAD DIST. NO.	ILLINOIS	CONTRACT NO. 97433		



SECTION B-B



SECTION C-C

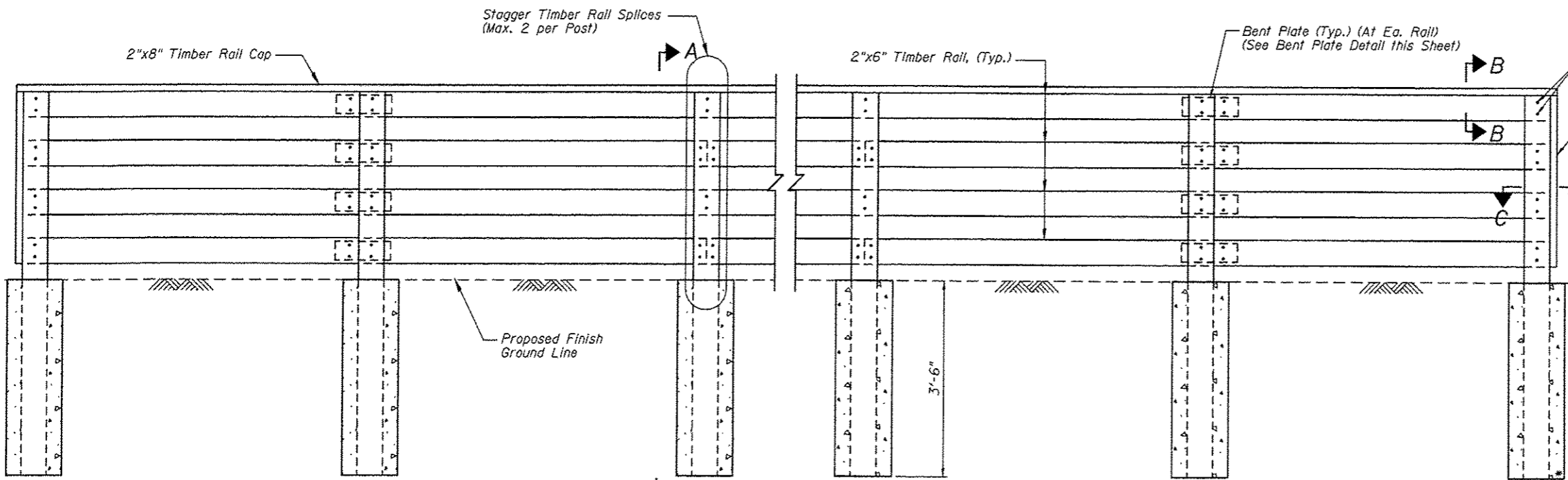


BENT PLATE

SECTION A-A

WOOD RAIL
BILL OF MATERIAL

Item	Unit	Quantity
Wood Rail	Foot	96



ELEVATION

Note:

No splices allowed on end railing.

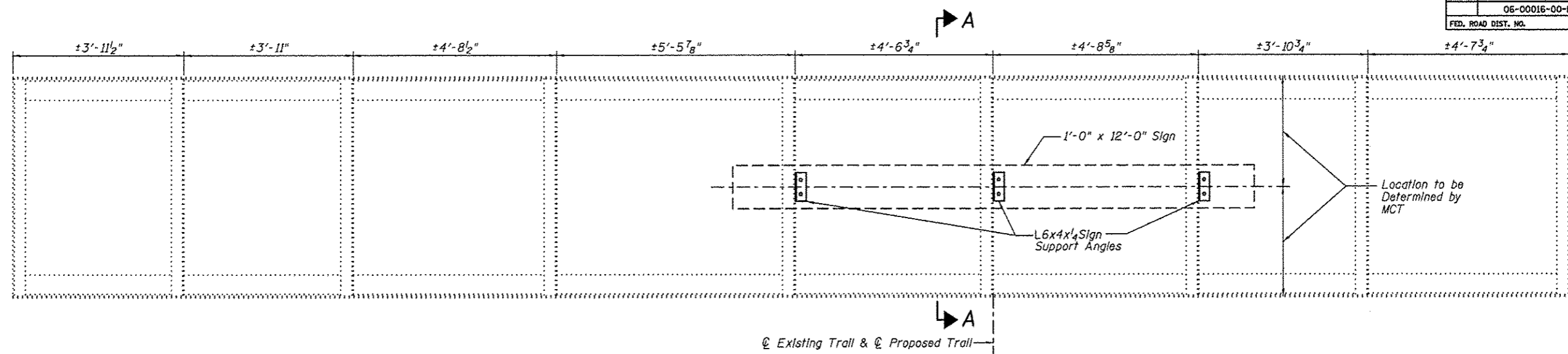
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Top of top timber rail shall be installed a minimum of 3'-6" above the finished groundline. Adjust post length according in field.

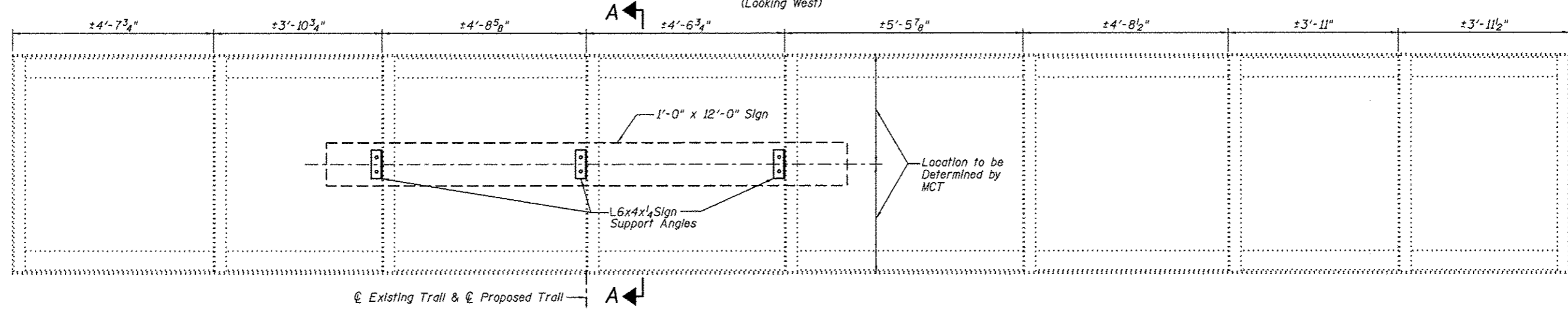
WOOD RAIL DETAILS

Juneau Associates, Inc. P.C. CONSULTING ENGINEERS AND LAND SURVEYORS 2108 State Street, P.O. Box 1225 / 100 North Broadway Drive Granite City, Illinois 62040 / Edwardsville, Illinois 62025 Phone: (618) 261-1100 / Phone: (618) 463-2900 Fax: (618) 261-0541 / Fax: (618) 463-2911		GLEN CARBON HERITAGE BIKE TRAIL OVER CREEK MADISON COUNTY STATION 485+23 STRUCTURE NO. 14	
REVISIONS NO. DATE BY REMARKS		SCALE: NOT TO SCALE, FOLLOW DIMENSIONS	
DSN. BY: DB DATE: 10/18/12 SHEET		DWN. BY: EER DATE: 10/18/12 249	
CHK'D: WNH DATE: 10/18/12		DGN NAME: JOB NO. E064403 DGN. NO. OF 810 BHTS	

Printed 10:06:44 AM 12/18/2012 W:\STRUCTURE\Drawings\Structure 44\021219 Fence Details.dgn



ELEVATION OF EAST GIRDER
(Looking West)



ELEVATION OF WEST GIRDER
(Looking East)

GENERAL NOTES

Plan dimensions and details relative to existing structure 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.

See Bikeway Plans for underground utility locations.
See Bikeway Plans for profile grade of trail.

BILL OF MATERIAL

Item	Unit	Quantity
Furnish and Erect Sign Panel	Sq Ft	24

SIGN NOTES

All traffic control signs shall be manufactured and erected in accordance with the "Manual on Uniform Traffic Control Devices for Streets and Highways" latest edition, as published by the U.S. Department of Transportation and the "Illinois Supplement to the National Manual on Uniform Traffic Control Devices" latest edition, and the "Standard Specifications for Road and Bridge Construction", latest edition, as published by the Illinois Department of Transportation; and as shown on the plans.

All dimensions of all traffic control signs shall be the minimum size shown on the above referenced manual unless otherwise stated on the plans.

Madison County Transit District shall direct the contractor as to the vertical placement of the sign on the through girder.

9/16" round holes shall be field drilled into the aluminum sign to match the final installed placement of the L6x4x1/4 sign support angle.

The sign panel must comply with IDOT Standard Specifications, Section 720.

All Structural Steel, including angles shall conform to AASHTO M270 in accordance with Article 1006.04 and shall be hot dipped galvanized according to AASHTO M232. All hardware including bolts, washers, nuts shall be stainless steel in accordance with Article 1006.29(d) of the Standard Specifications.

Artwork to be provided by the Madison County Transit District.

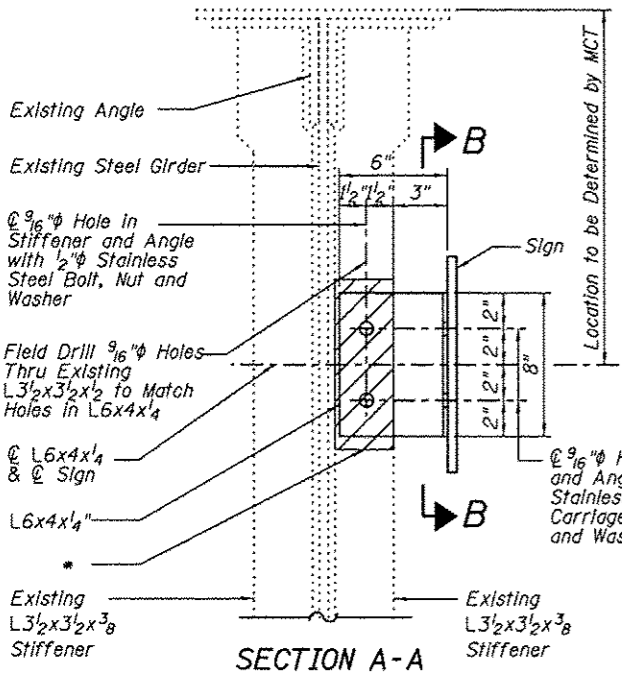
* Surfaces of the existing structural steel that will be in contact with the new structural steel shall be cleaned and painted in accordance with the Special Provision Cleaning and Painting Contact Surface Areas of Existing Structural Steel. The extent of the area shall be a minimum of 2 inches beyond the plate in all directions.

Payment for furnishing and installing all material and labor necessary to construct the signs, including the angles, hot dipped galvanizing, field drilling existing structural steel, field drilling sign, cleaning and painting contact surface areas of existing structural steel, bolts, nuts, washers, and all other appurtenances and incidental work as shown, complete in place, will be considered completely covered by the contract unit price for Furnish and Erect Sign Panel per each.

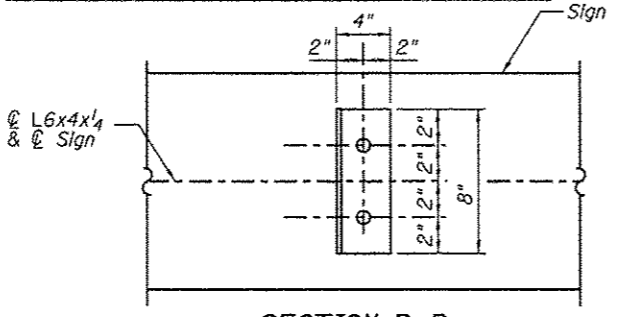
I certify to the best of knowledge, information and belief, this sign support design is structurally adequate for the design loading shown on the plans. The design is an economical one for the style of structure and complies with requirements of the current AASHTO Standard Specification for Highway Bridges.



Wesley W. Herndon
WESLEY W. HERNDON, S.E. DATE 1/2/13



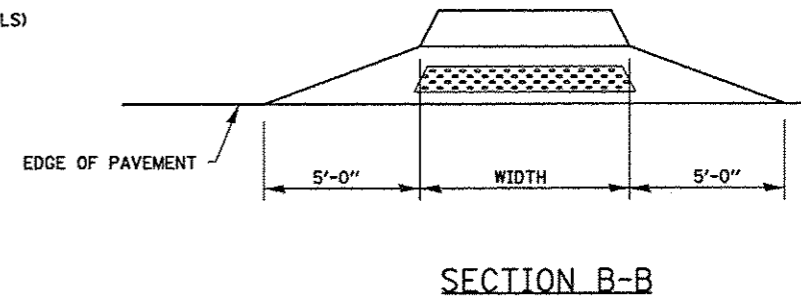
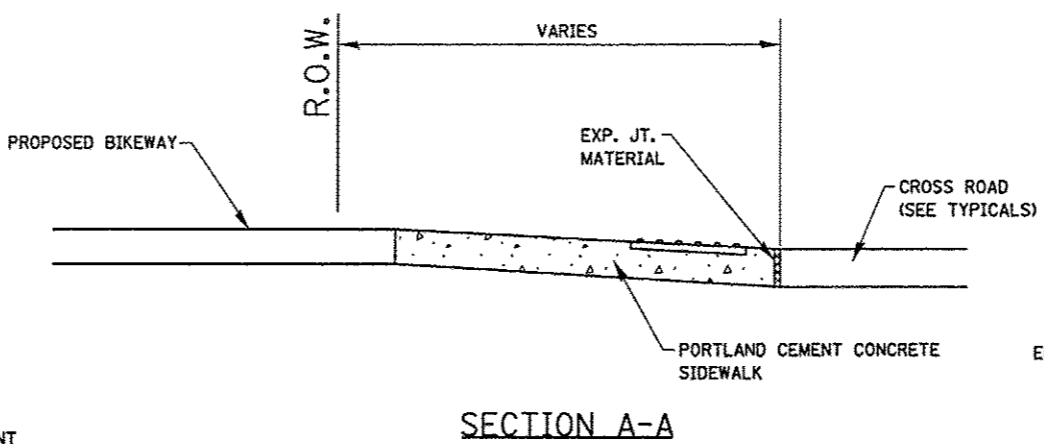
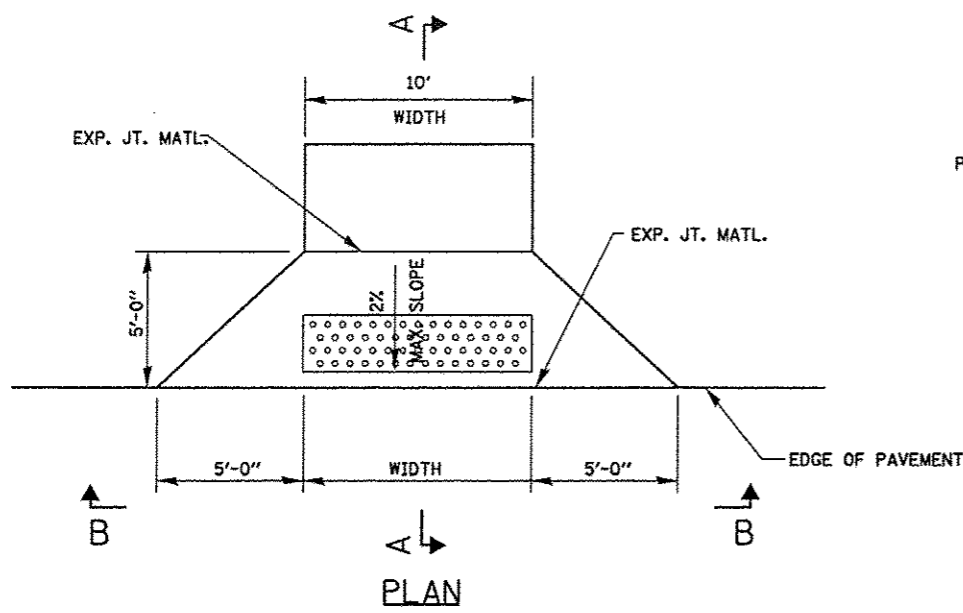
SECTION A-A



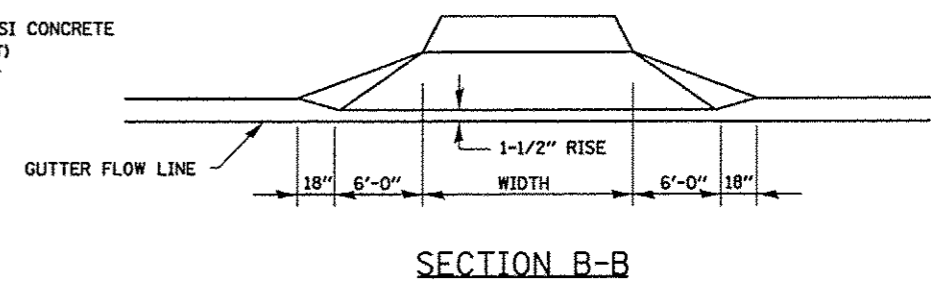
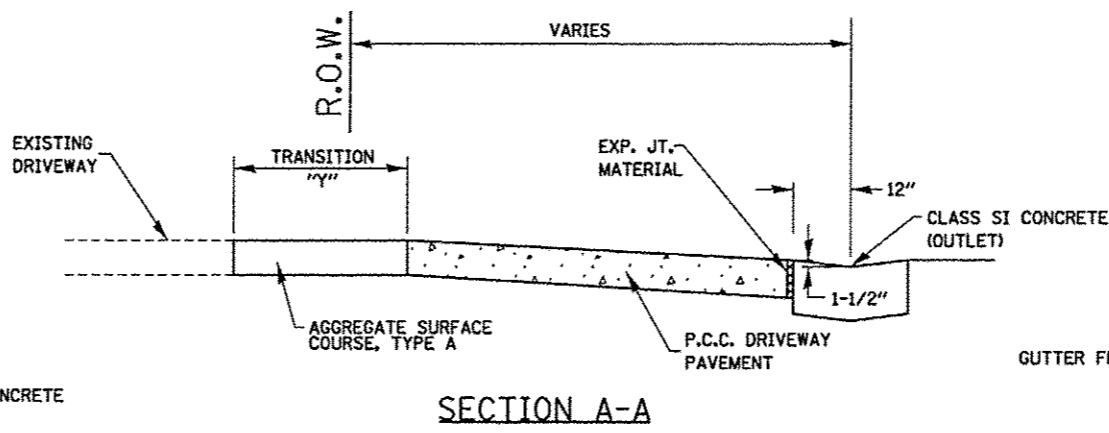
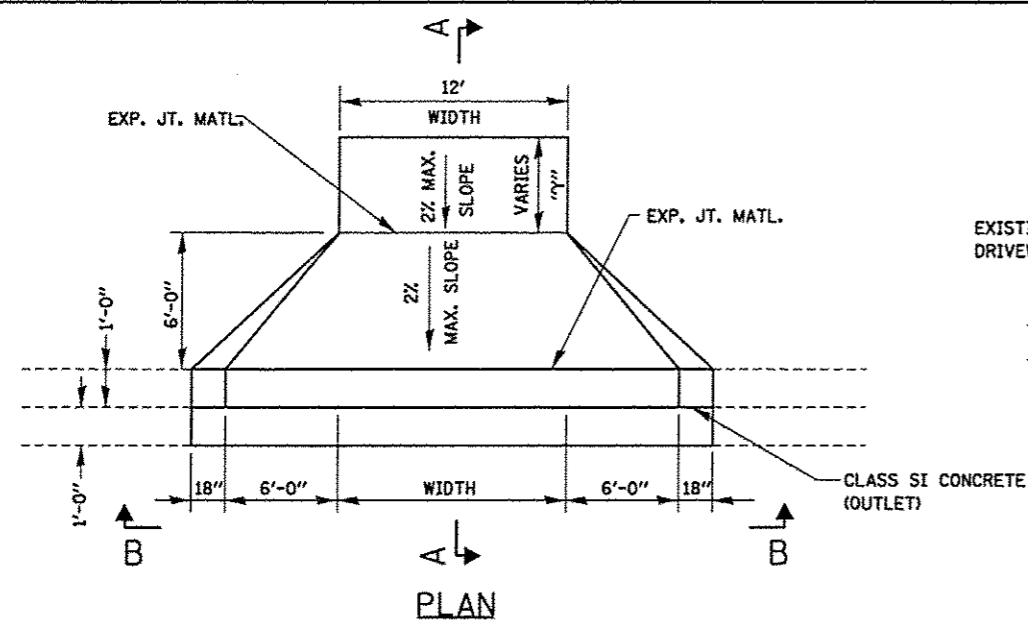
SECTION B-B

SIGN DETAILS FOR GOSHEN TRAIL BRIDGE			
		GLEN CARBON HERITAGE BIKE TRAIL UNDER GOSHEN TRAIL MADISON COUNTY SIGN ATTACHMENT TO EXISTING BRIDGE	
REVISIONS NO. DATE BY REMARKS		SCALE: NOT TO SCALE, FOLLOW DIMENSIONS	
DSN. BY: DB	DATE: 10/18/12	SHEET 250	
DWN. BY: EER	DATE: 10/18/12		
CHK'D: WWH	DATE: 10/18/12		
DGN NAME:	JOB NO. E064403	DGN. NO.	OF 310 SHTS

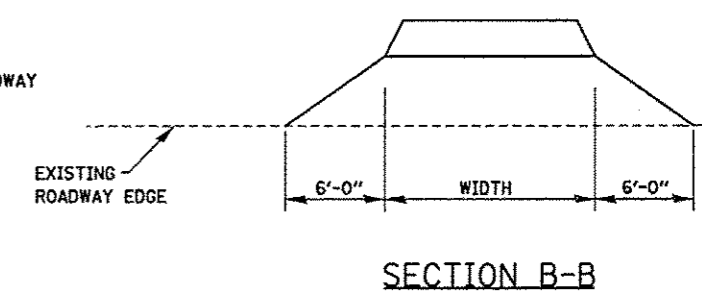
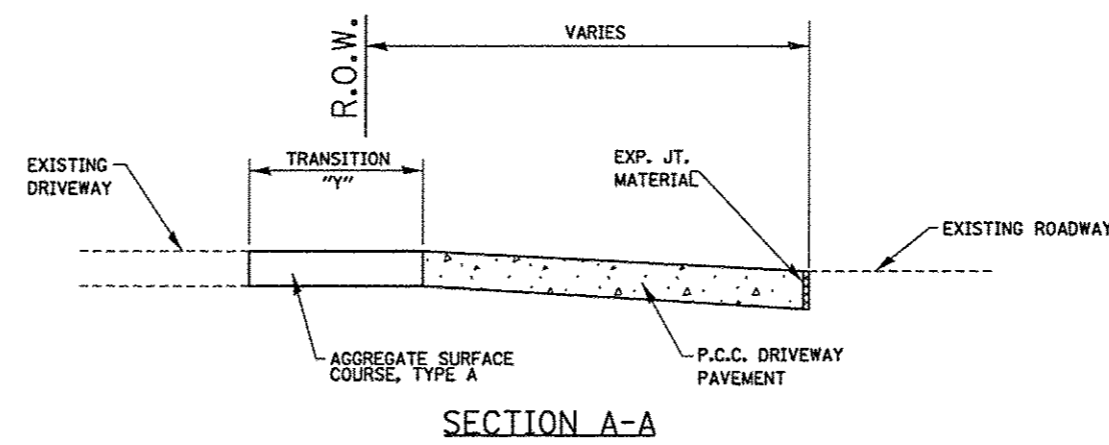
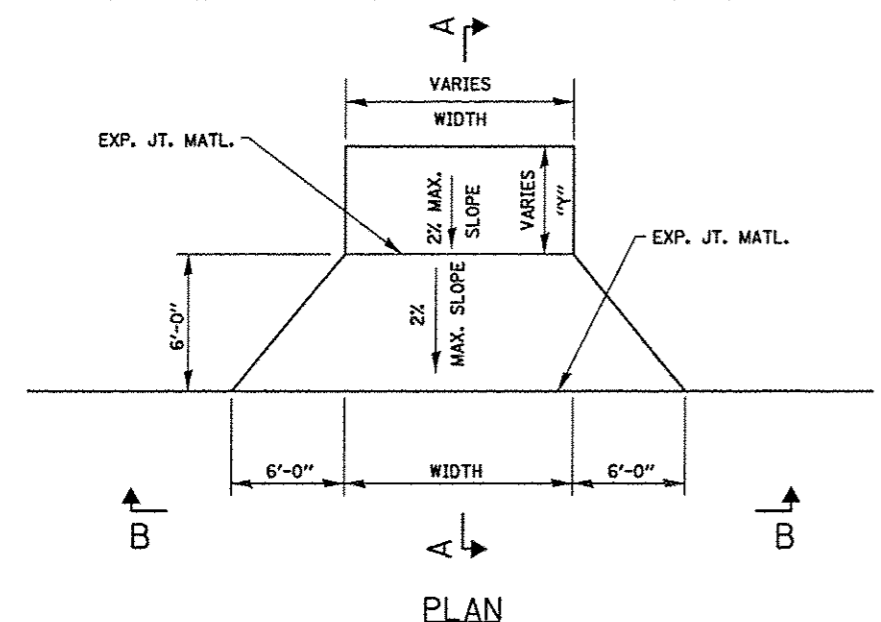
1/2/2013 8:28:53 AM W:\STRUCTURE\064403 MCT Heritage Trail Drawings\Structure 06-00016-00-BT Sign Details.dgn



BIKEWAY ENTRANCE DETAILS
N.T.S.



PRIVATE ENTRANCE DETAILS
N.T.S.



PRIVATE ENTRANCE DETAILS
N.T.S.

FILE NAME *	USER NAME * Jeremy	DESIGNED - SAS	REVISED -	MADISON COUNTY MASS TRANSIT DISTRICT HERITAGE BIKEWAY	ENTRANCE DETAILS			F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FILE#		DRAWN - SAS	REVISED -		SCALE: N.T.S.	SHEET NO. 2 OF 2 SHEETS	STA.	TO STA.	06-00016-00-BT	MADISON	310	252
		CHECKED - SAS	REVISED -						CONTRACT NO. 97433			
		DATE - 11/30/12	REVISED -						ILLINOIS FED. AID PROJECT			



EXISTING R.O.W.

P.C.C. SIDEWALK, 6"

EXISTING R.O.W.

CONCRETE APRON TO BE CONSTRUCTED PER IDOT HWY STANDARD 424001 AND BIKEWAY ENTRANCE DETAILS.

DETECTABLE WARNING

164

31

GLEN CROSSING ROAD

32

CONCRETE

BIKEWAY ENTRANCE TO BE CONSTRUCTED PER IDOT HIGHWAY STANDARD 424001 AND BIKEWAY ENTRANCE DETAILS.

DETECTABLE WARNING

CLASS SI CONCRETE (OUTLET)

163+76.91
28.13' LT
EL=486.51

163+74.91
19.04' LT
EL=486.77

163+72.77
4.86' LT
EL=487.17

163+73.07
5.14' RT
EL=487.37

163+74.33
26.39' RT
EL=488.62

163+74.26
20.73' RT
EL=488.62

MATCH EXISTING

163+68.89
27.91' LT
EL=486.56

163+67.58
20.96' LT
EL=486.72

P.C.C. SIDEWALK, 6"

163+67.22
4.76' LT
EL=487.10

DETECTABLE WARNING

163+68.52
5.24' RT
EL=487.30

P.C.C. SIDEWALK, 6"

DETECTABLE WARNING

163+74.22
31.26' RT
EL=488.71

EXISTING R.O.W.

5'X5' LANDING

163+70.69
26.02' RT
EL=488.62

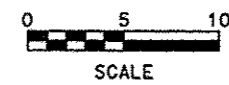
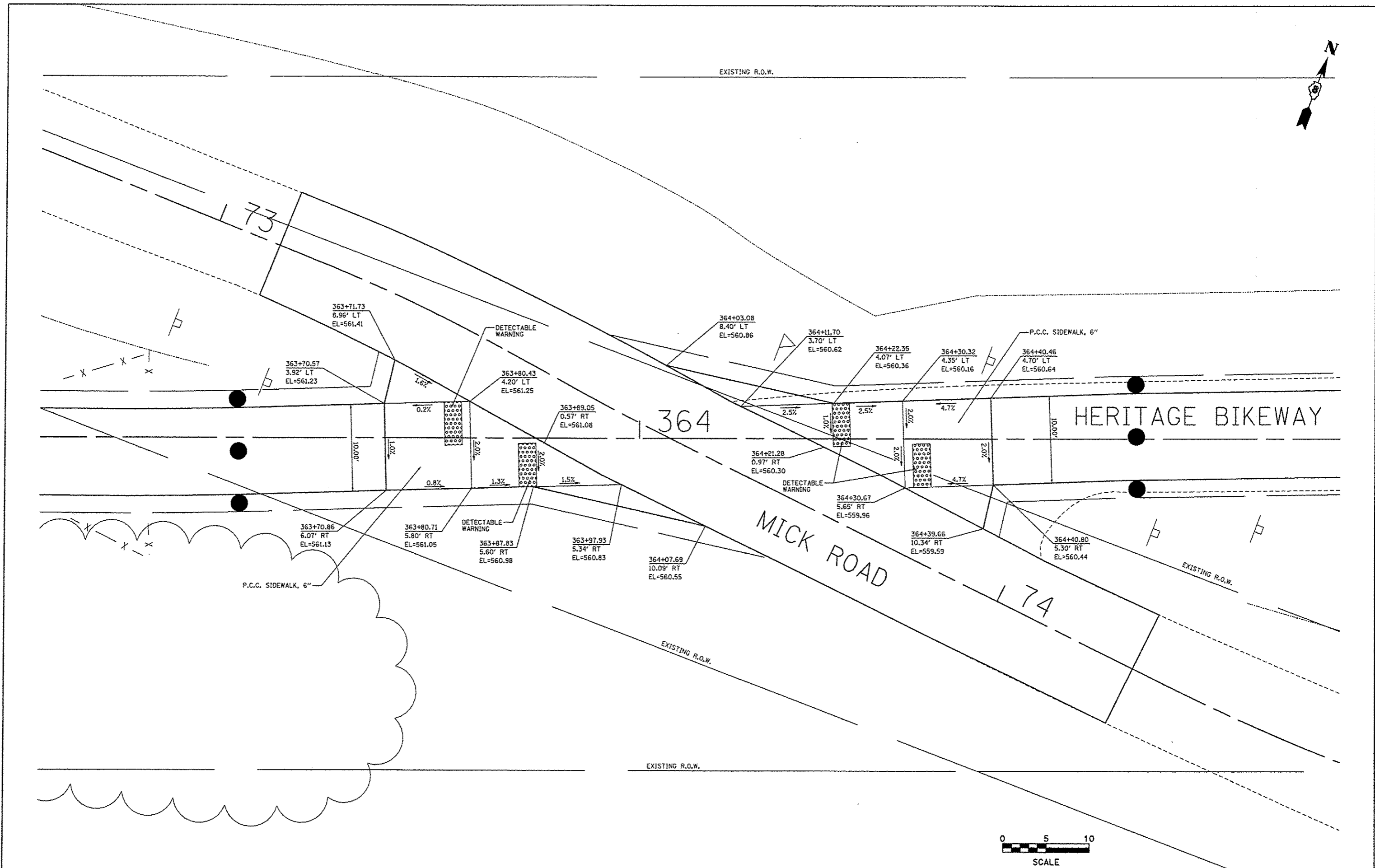
163+70.38
21.04' RT
EL=488.57

HERITAGE BIKEWAY

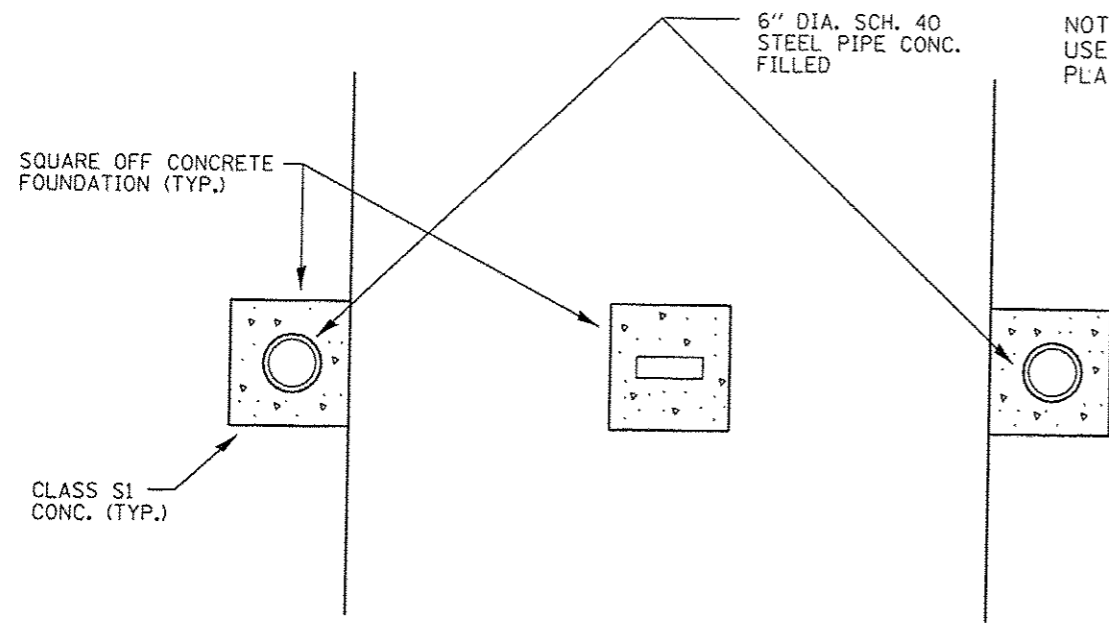
MICHELLE DRIVE



FILE NAME * Sidewalk Ramp Detail.dgn	USER NAME * joremy	DESIGNED - SAS	REVISED -	MADISON COUNTY TRANSIT DISTRICT HERITAGE BIKEWAY	SIDEWALK RAMP DETAIL GLEN CROSSING ROAD		F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	PLOT SCALE * #SCALE*	DRAWN - JJB	REVISED -				06-00016-00-BT	MADISON	310	253	
	PLOT DATE * 12/18/2012	CHECKED - WJB	REVISED -				CONTRACT NO. 97433				
	DATE - 11/30/12	DATE - 11/30/12	REVISED -				ILLINOIS FED. AID PROJECT				
					SCALE: 1"=5'	SHEET NO. 1 OF 2 SHEETS					

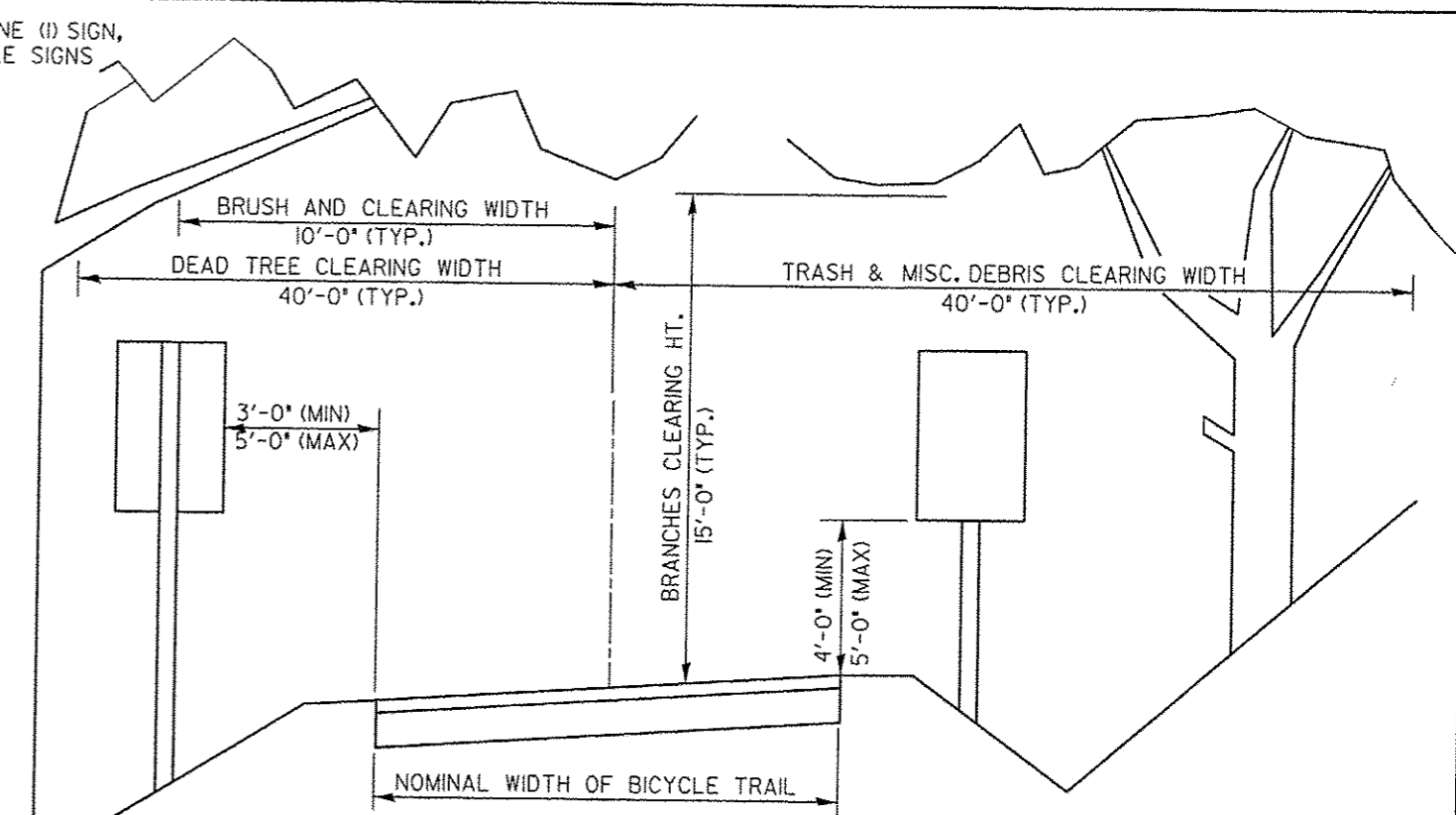


FILE NAME * Sidewalk Ramp Detail 02.dgn	USER NAME * Jeremy	DESIGNED - SAS	REVISED -	MADISON COUNTY TRANSIT DISTRICT HERITAGE BIKEWAY	SIDEWALK RAMP DETAIL MICK ROAD		F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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		DATE - 11/30/12	REVISED -		ILLINOIS FED. AID PROJECT						

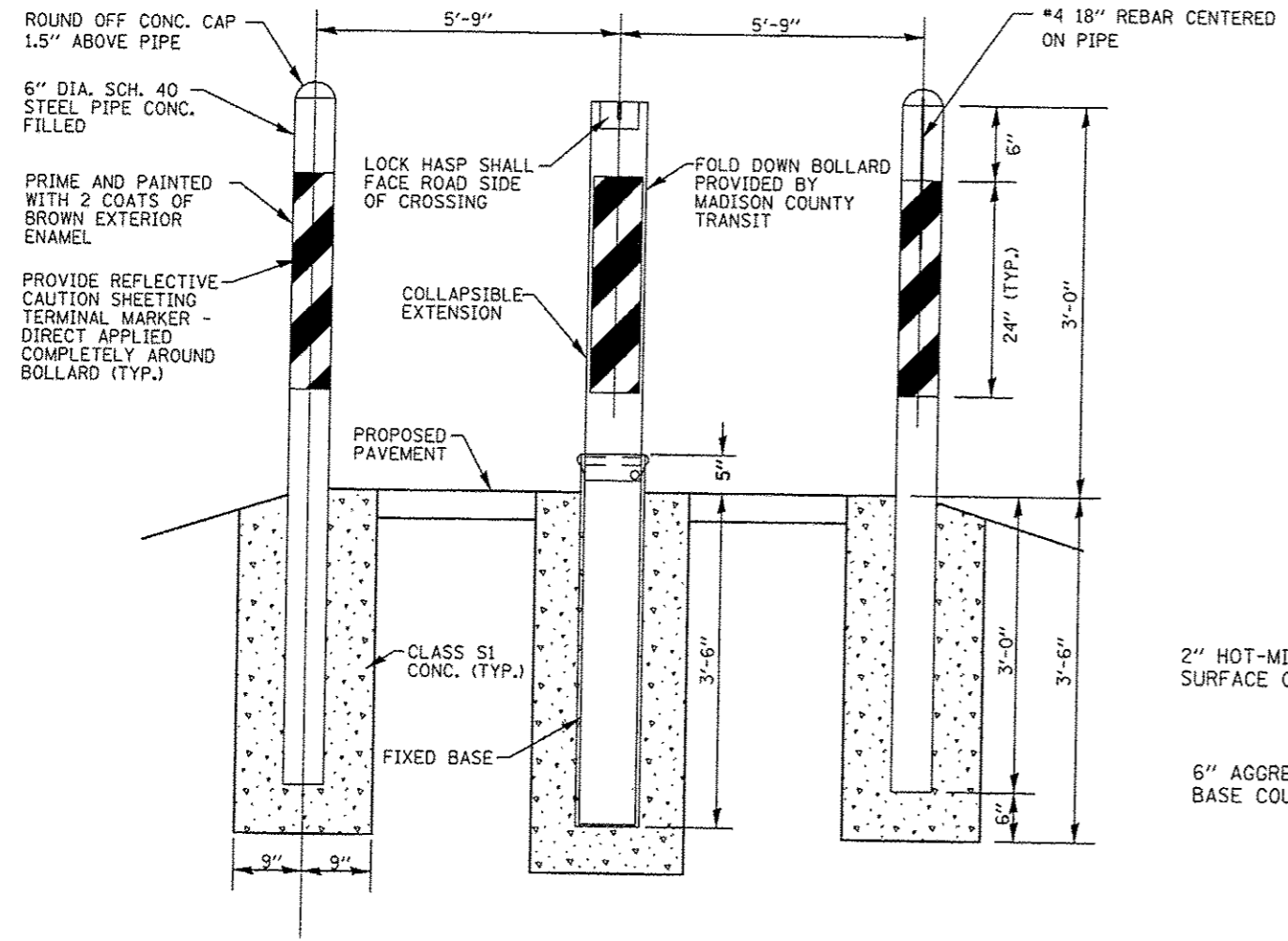


BOLLARD GATE PLAN VIEW

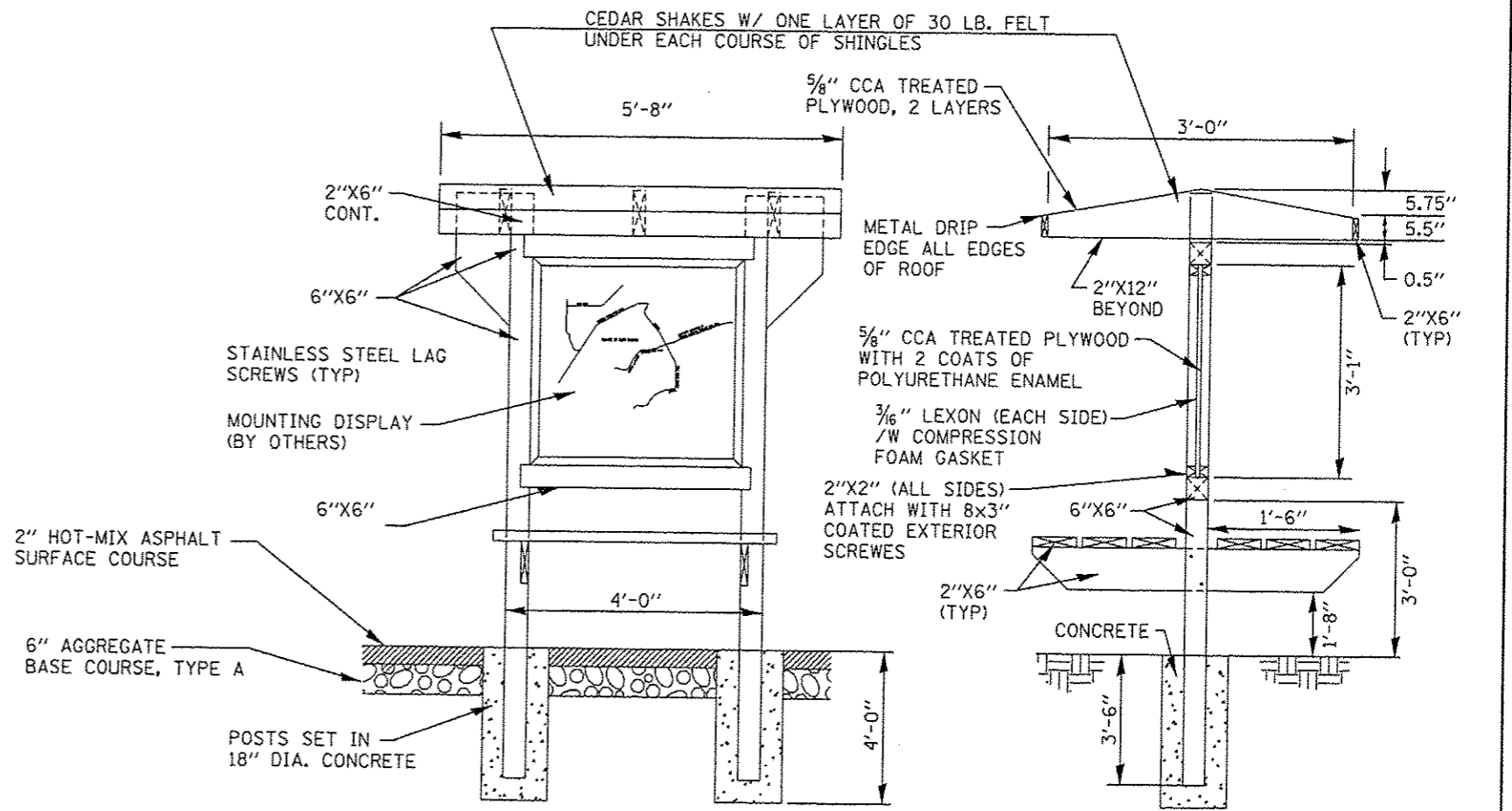
NOTE: USE 5'-0" CLEARANCE WITH ONE (1) SIGN,
USE 4'-0" CLEARANCE WHEN MULTIPLE SIGNS
PLACED ON SAME WOOD POST.



SIGN AND CLEARANCE DETAIL



BOLLARD GATE DETAIL



INFORMATION KIOSK

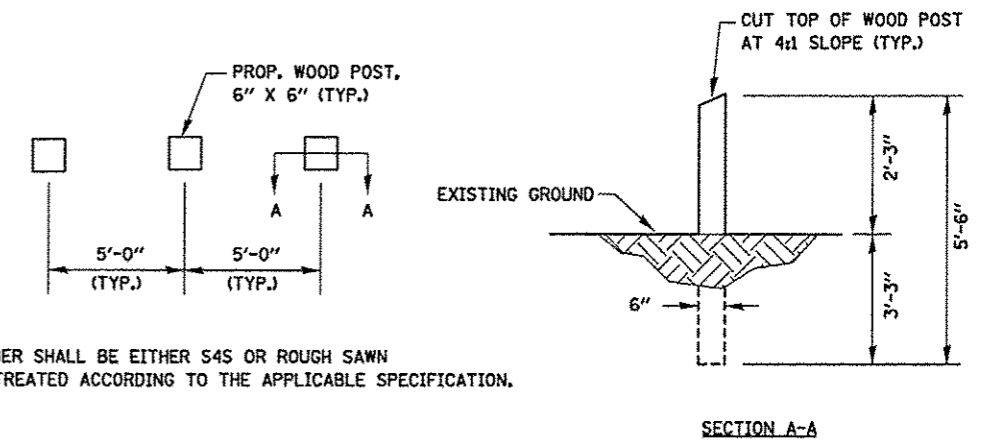
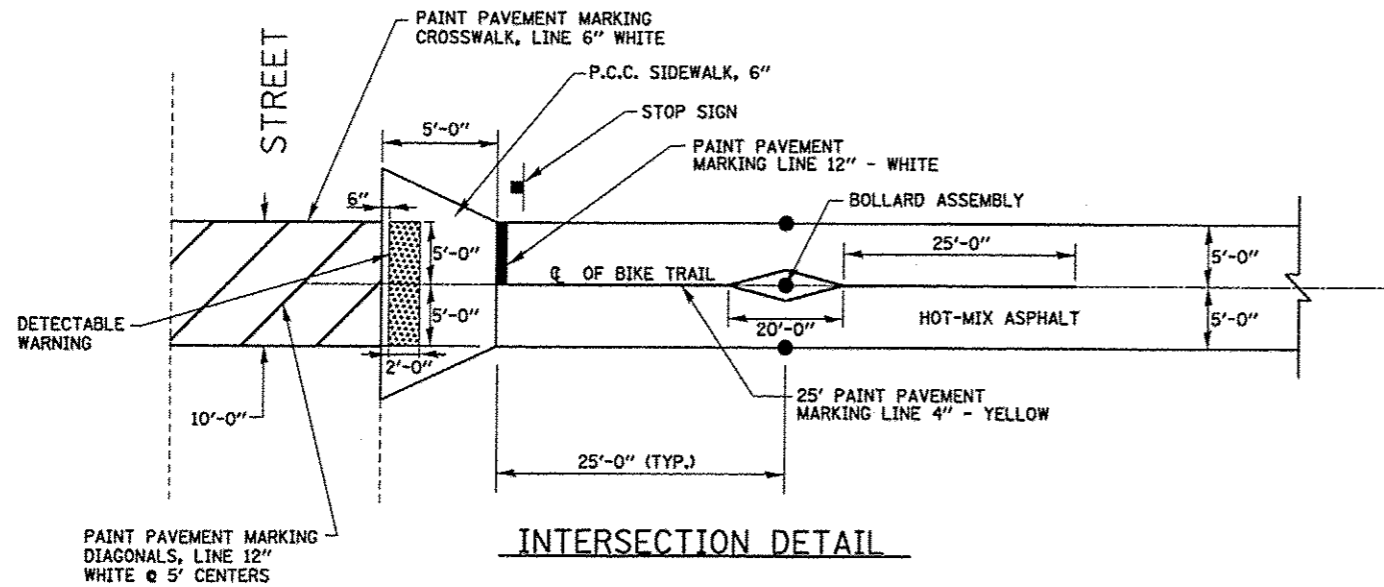
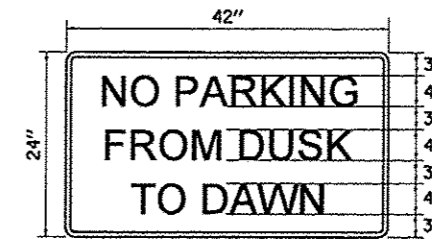
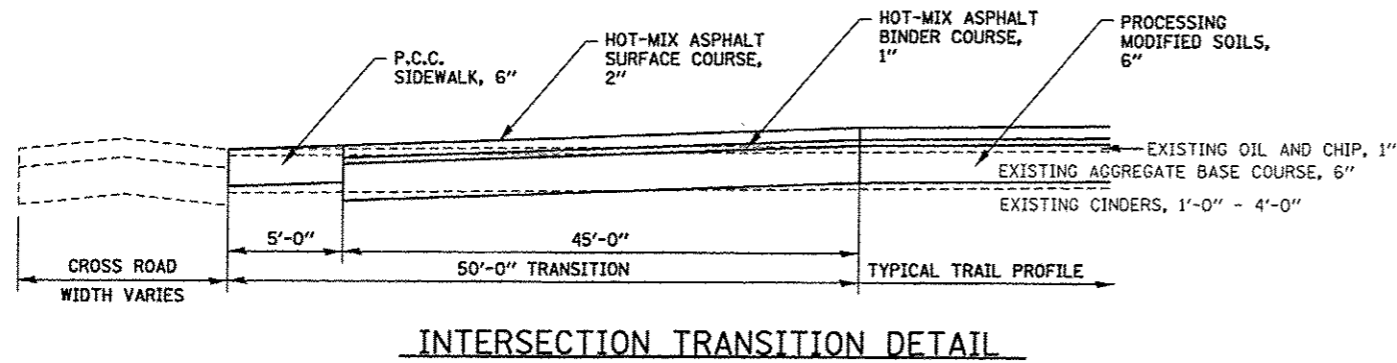
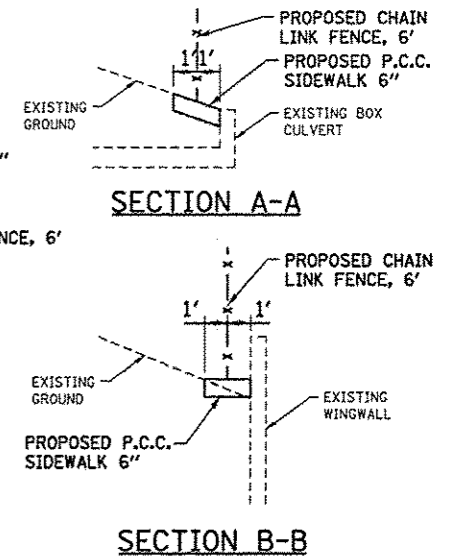
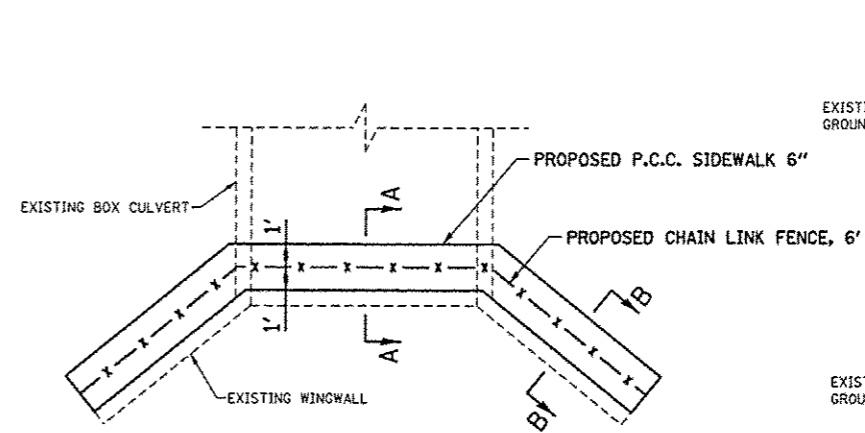
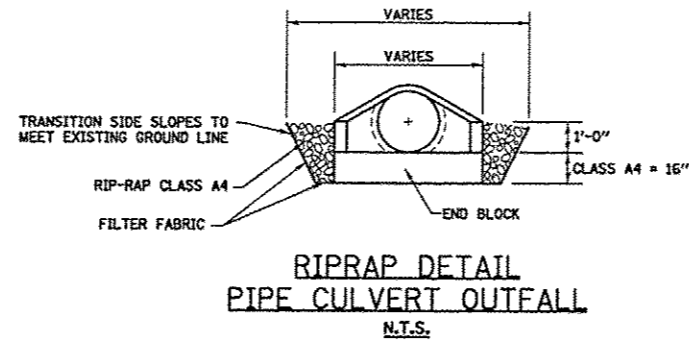
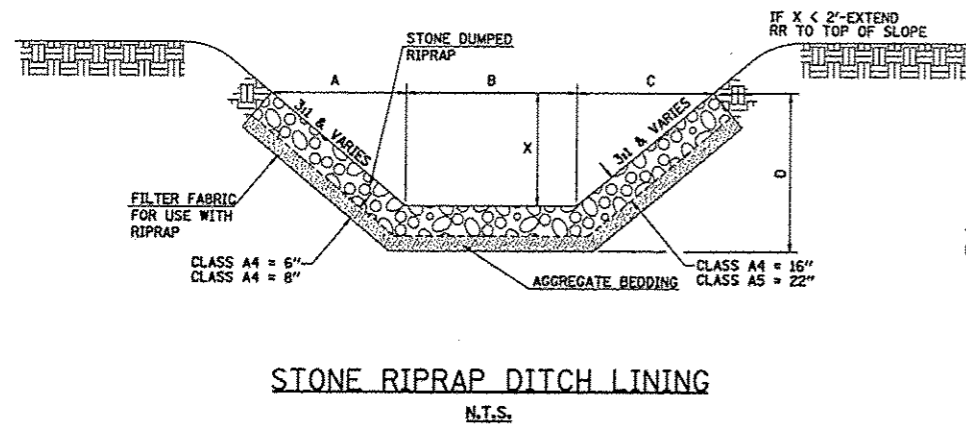
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	PLOT DATE = 12/18/2012	DATE - 11/30/12	REVISED -

**MADISON COUNTY TRANSIT DISTRICT
HERITAGE BIKEWAY**

MISCELLANEOUS DETAILS

SCALE: N.T.S. SHEET NO. 1 OF 3 SHEETS

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	06-00016-00-BT	MADISON	310	255
CONTRACT NO. 97433				



NOTES:
ALL TIMBER SHALL BE EITHER S4S OR ROUGH SAWN
AND BE TREATED ACCORDING TO THE APPLICABLE SPECIFICATION.

FILE NAME *	USER NAME * Jeremy	DESIGNED - SAS	REVISED -
#FILE#		DRAWN - JDH	REVISED -
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	PLOT DATE = 12/10/2012	DATE - 11/30/12	REVISED -

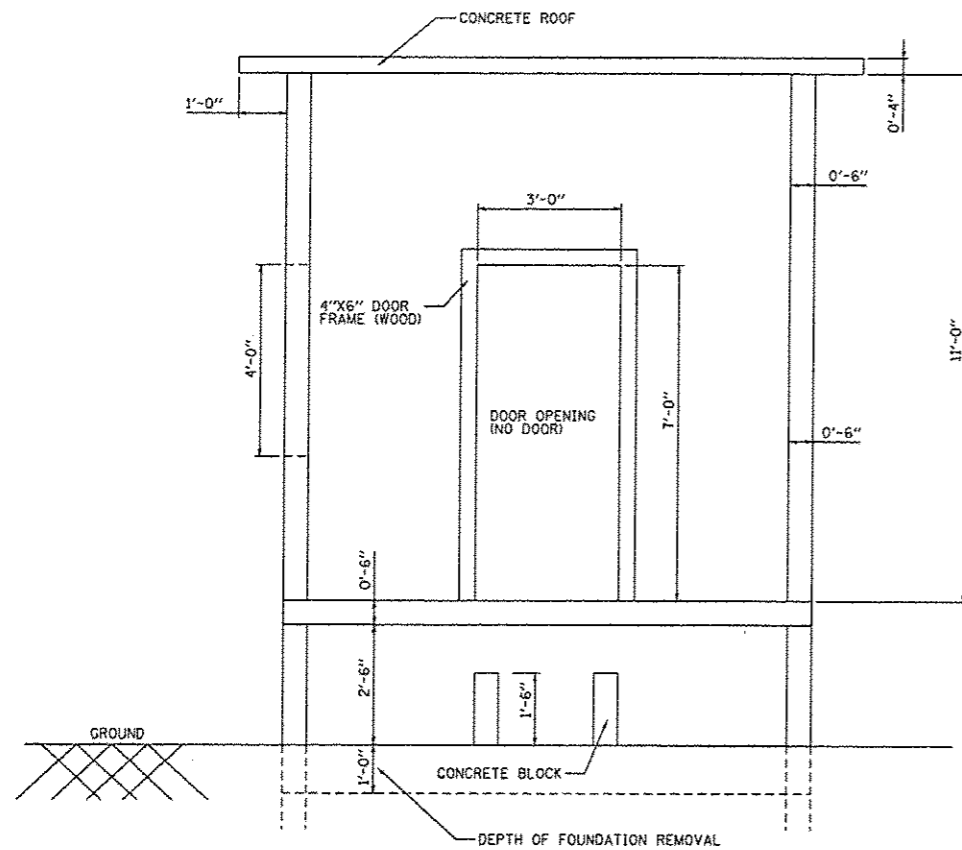
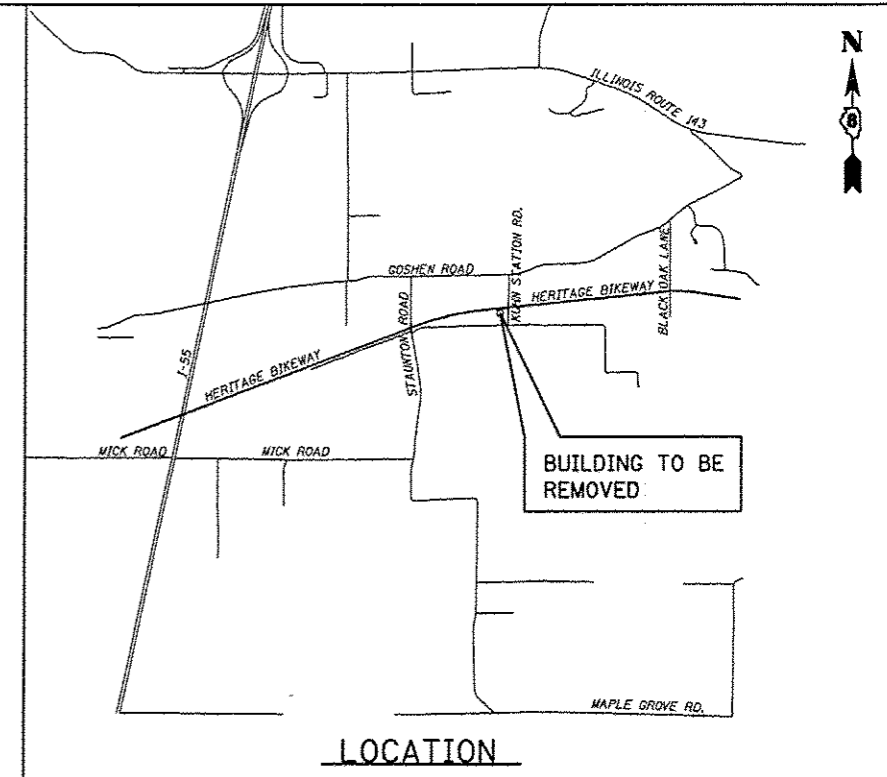
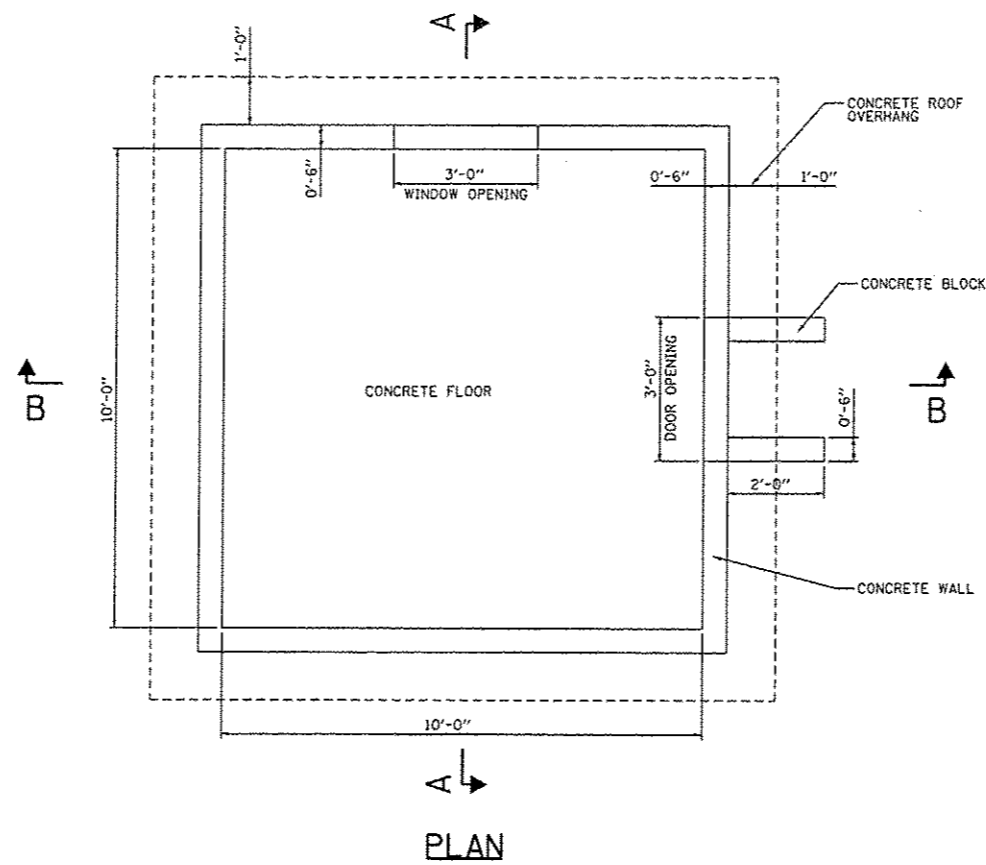
**MADISON COUNTY TRANSIT DISTRICT
HERITAGE TRAIL**

SCALE: N.T.S.		SHEET NO. 2 OF 3 SHEETS	
MISCELLANEOUS DETAILS			

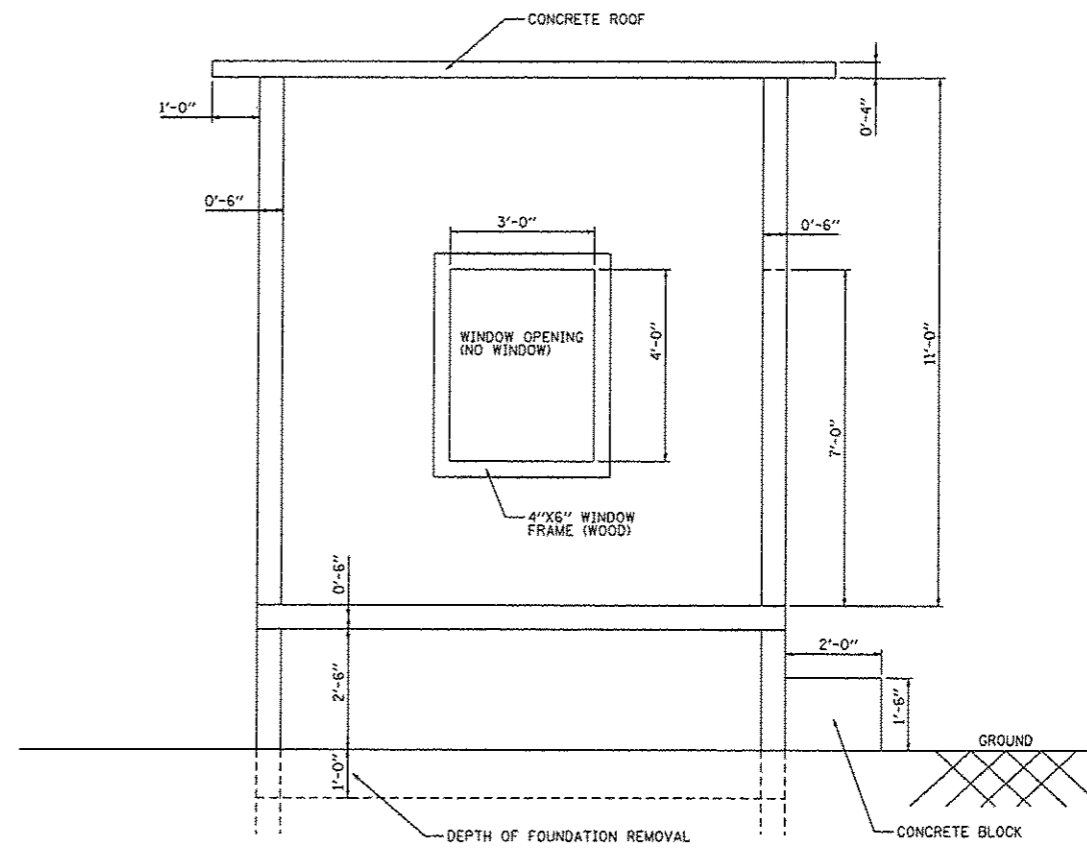
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	06-00016-00-BT	MADISON	310	256
FED. ROAD DIST. NO.			ILLINOIS FED. AID PROJECT	
			CONTRACT NO. 97433	

GENERAL NOTES

1. REMOVAL OF EXISTING BUILDING STRUCTURE SHALL BE DONE ACCORDING TO SECTION 501 OF THE STANDARD SPECIFICATION. EXISTING STRUCTURE SHALL BE REMOVED AT LEAST 1 FT BELOW GROUND SURFACE.
2. FILLING OF THE FOUNDATION SHALL CONSIST OF THE CONSTRUCTION OF EMBANKMENT ACCORDING TO SECTION 205 OF THE STANDARD SPECIFICATION. COMPACTION SHALL BE DONE AS DIRECTED BY THE ENGINEER. THE COST OF REPLACEMENT FILL MATERIAL SHALL BE INCLUDED IN BUILDING REMOVAL.



SECTION A - A



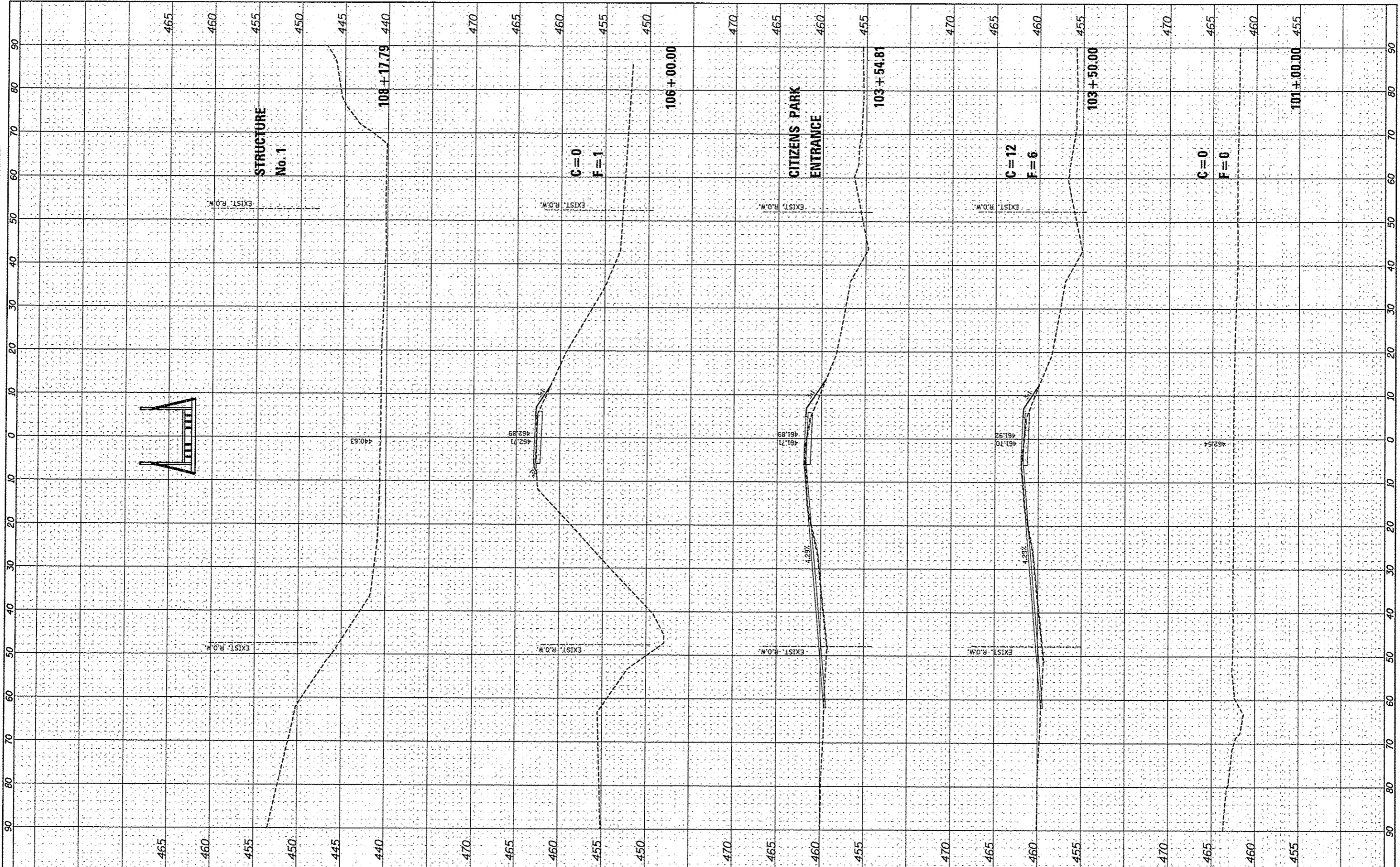
SECTION B - B

BUILDING REMOVAL DETAIL

FILE NAME * #FILE#	USER NAME * jorony	DESIGNED - SAS	REVISED -	MADISON COUNTY MASS TRANSIT DISTRICT HERITAGE BIKEWAY	MISCELLANEOUS DETAILS			F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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	PLOT DATE = 12/18/2012	DATE - 11/30/12	REVISED -		SCALE: N.T.S.	SHEET NO. 3 OF 3 SHEETS	STA.	TO STA.	FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT		
								CONTRACT NO. 97433				

DATE	
BY	
FINISHED	
PLOTTED	
NOTE BOOK	
AREAS CHECKED	

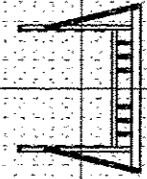
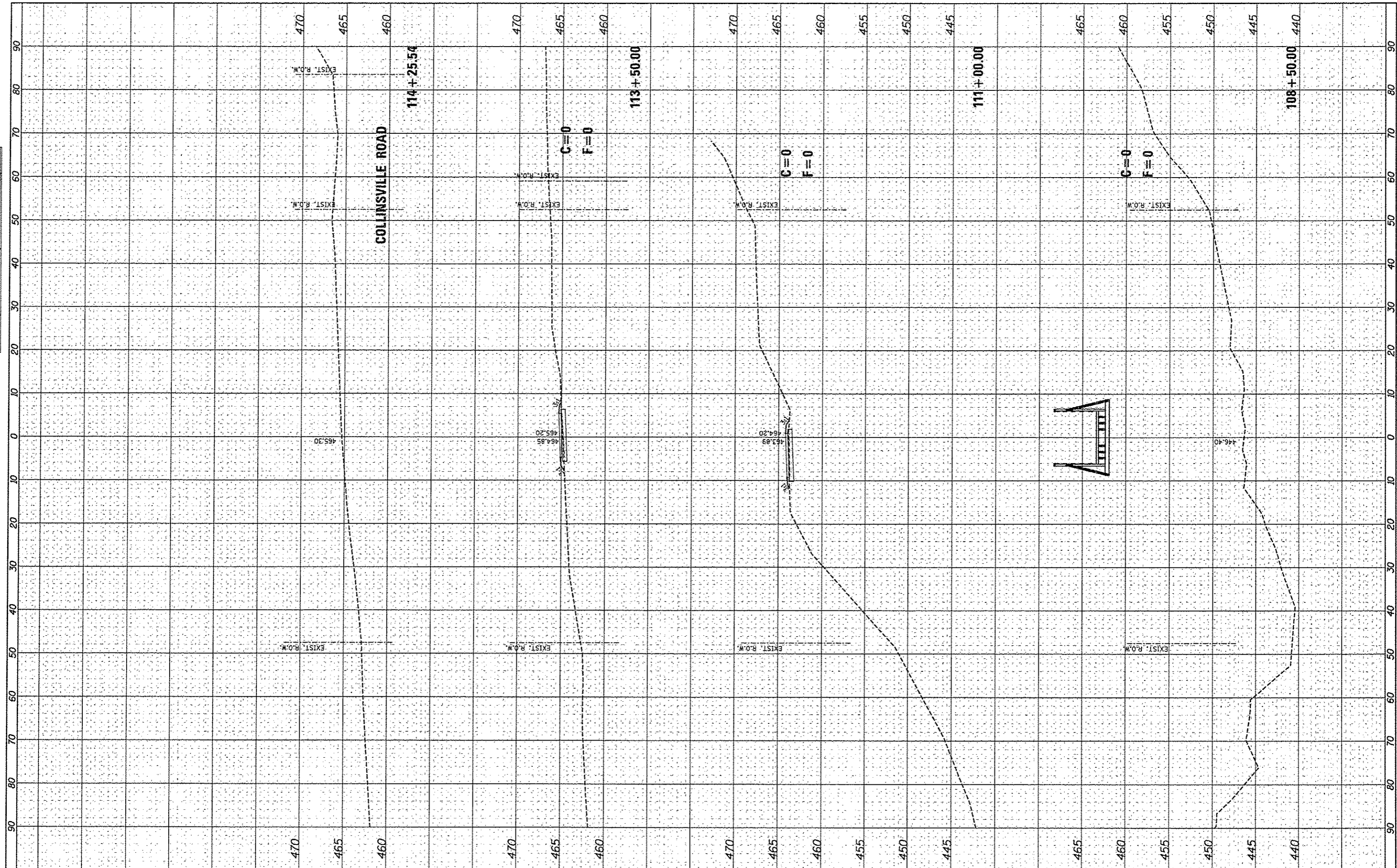
DATE	
BY	
ORIGINAL SURVEY	
PLOTTED	
NOTE BOOK	
AREAS CHECKED	



FILE NAME *	USER NAME * Jeremy	DESIGNED - SAS	REVISED -	MADISON COUNTY TRANSIT DISTRICT HERITAGE BIKEWAY	HERITAGE BIKEWAY CROSS SECTIONS	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
#FILE#		DRAWN - JOH	REVISED -			06-00016-00-BT	MADISON	310	259	
PLOT SCALE * 1/4"=1'		CHECKED - WJB	REVISED -			CONTRACT NO. 97433				
PLOT DATE * 12/19/2012		DATE - 11/30/12	REVISED -			ILLINOIS FED. AID PROJECT				
				SCALE: 1"=10'		SHEET NO. 1 OF 46 SHEETS		STA. 101+00.00 TO STA. 108+17.79		

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

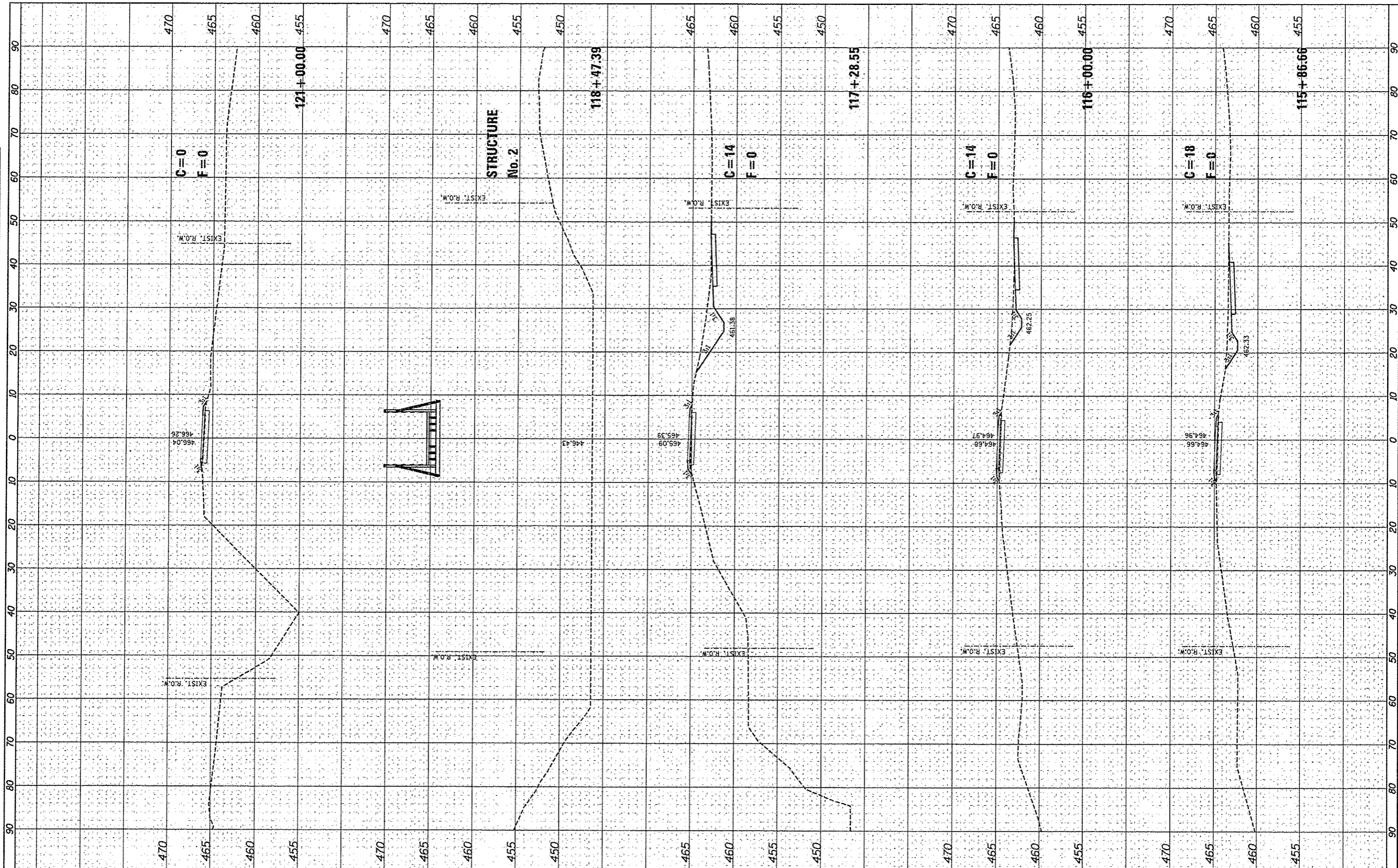
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SURVEYED		
PLOTTED		
TEMPLATE		
AREAS		
AREAS CHECKED		
NO.		



FILE NAME *	USER NAME * jeramy	DESIGNED - SAS	REVISED -	MADISON COUNTY TRANSIT DISTRICT HERITAGE BIKEWAY	HERITAGE BIKEWAY CROSS SECTIONS	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*FILE#		DRAWN - JOH	REVISED -			06-00016-00-BT	MADISON	310	259	
		CHECKED - WJB	REVISED -			CONTRACT NO. 97433				
		DATE - 11/30/12	REVISED -			ILLINOIS FED. AID PROJECT				
		PLOT SCALE * SCALE*		SCALE: 1"=10'		SHEET NO. 2 OF 46 SHEETS		STA. 108+50.00 TO STA. 114+25.54		

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

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



FILE NAME *
#FILE#

USER NAME * Jeremy
DESIGNED - SAS
DRAWN - JQH
CHECKED - WJB
PLOT SCALE * #SCALE*
PLOT DATE * 12/19/2012

DESIGNED - SAS
DRAWN - JQH
CHECKED - WJB
DATE - 11/30/12

REVISED -
REVISED -
REVISED -
REVISED -

**MADISON COUNTY TRANSIT DISTRICT
HERITAGE BIKEWAY**

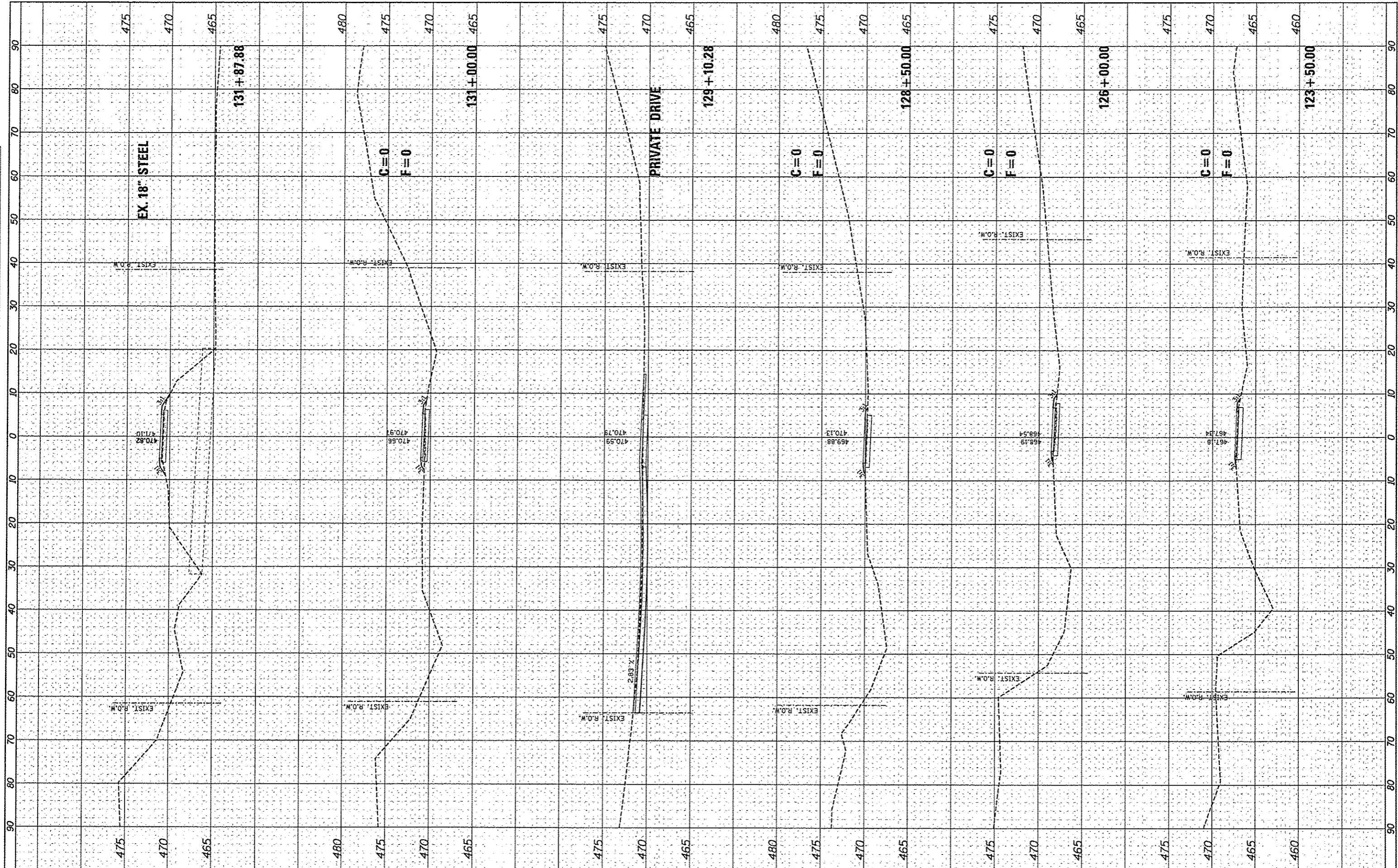
**HERITAGE BIKEWAY
CROSS SECTIONS**

SCALE: 1"=10' SHEET NO. 3 OF 46 SHEETS STA. 115+86.66 TO STA. 121+00.00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	06-00016-00-BT	MADISON	310	260
CONTRACT NO. 97433				

DATE	
BY	
FINISHED SURVEY	
PLOTTED	
TEMPLATE	
NOTE BOOK	
NO.	
AREAS CHECKED	

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



FILE NAME *	
FILEL	

USER NAME =	jeromy
DESIGNED -	SAS
DRAWN -	JDH
CHECKED -	WJB
DATE -	11/30/12
REVISIONS	
REVISED -	
REVISED -	
REVISED -	

DESIGNED -	SAS
DRAWN -	JDH
CHECKED -	WJB
DATE -	11/30/12
REVISIONS	
REVISED -	
REVISED -	
REVISED -	

**MADISON COUNTY TRANSIT DISTRICT
HERITAGE BIKEWAY**

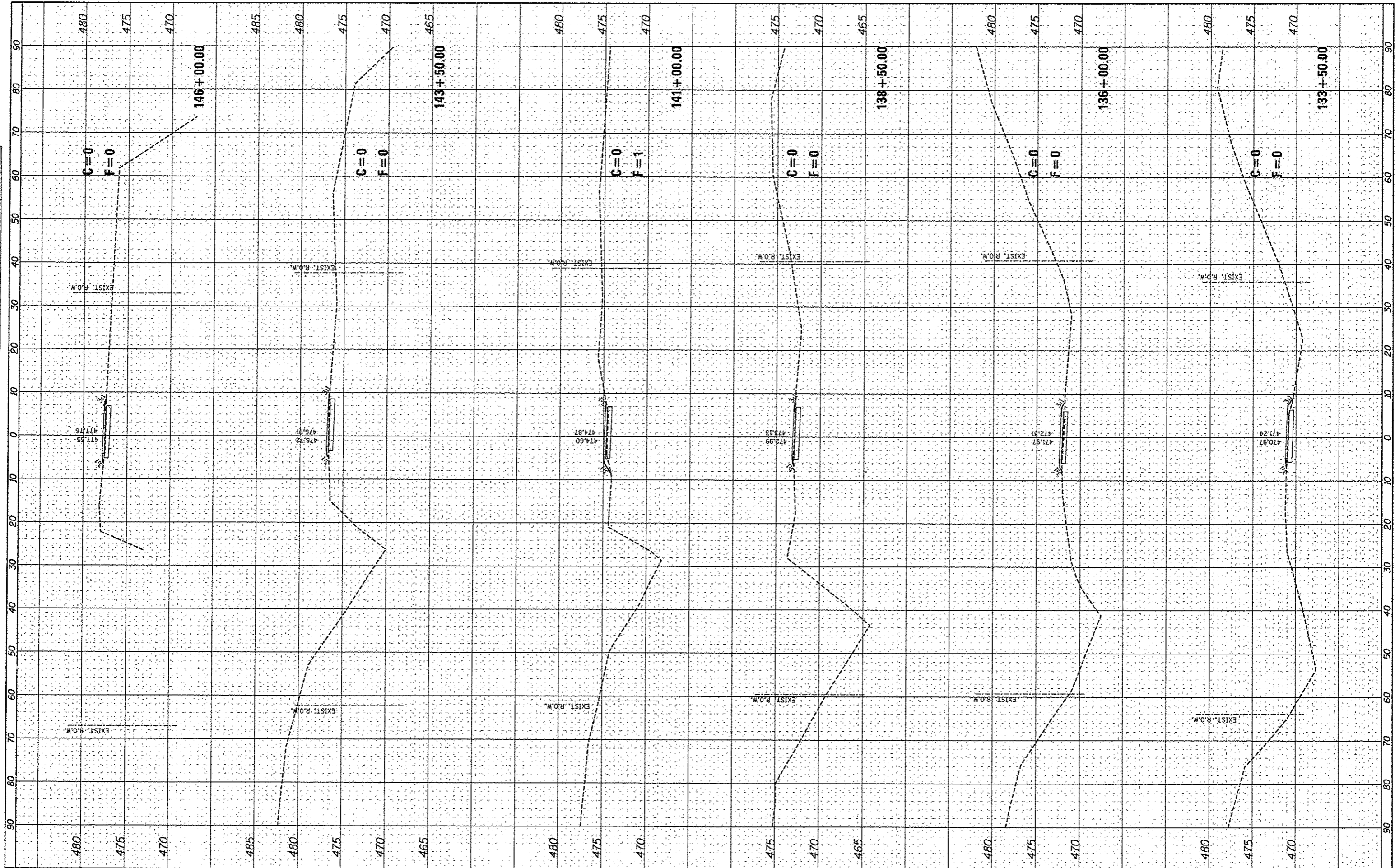
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SHEET NO.	4 OF 46 SHEETS
STA.	123+50.00 TO STA. 131+87.88

**HERITAGE BIKEWAY
CROSS SECTIONS**

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	06-00016-00-BT	MADISON	310	261
CONTRACT NO. 97433				
ILLINOIS FED. AID PROJECT				

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

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



FILE NAME *
#FILE#

USER NAME = jaromj	DESIGNED - SAS	REVISED -
DRAWN - JDH	CHECKED - WJB	REVISED -
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PLLOT DATE = 12/19/2012		

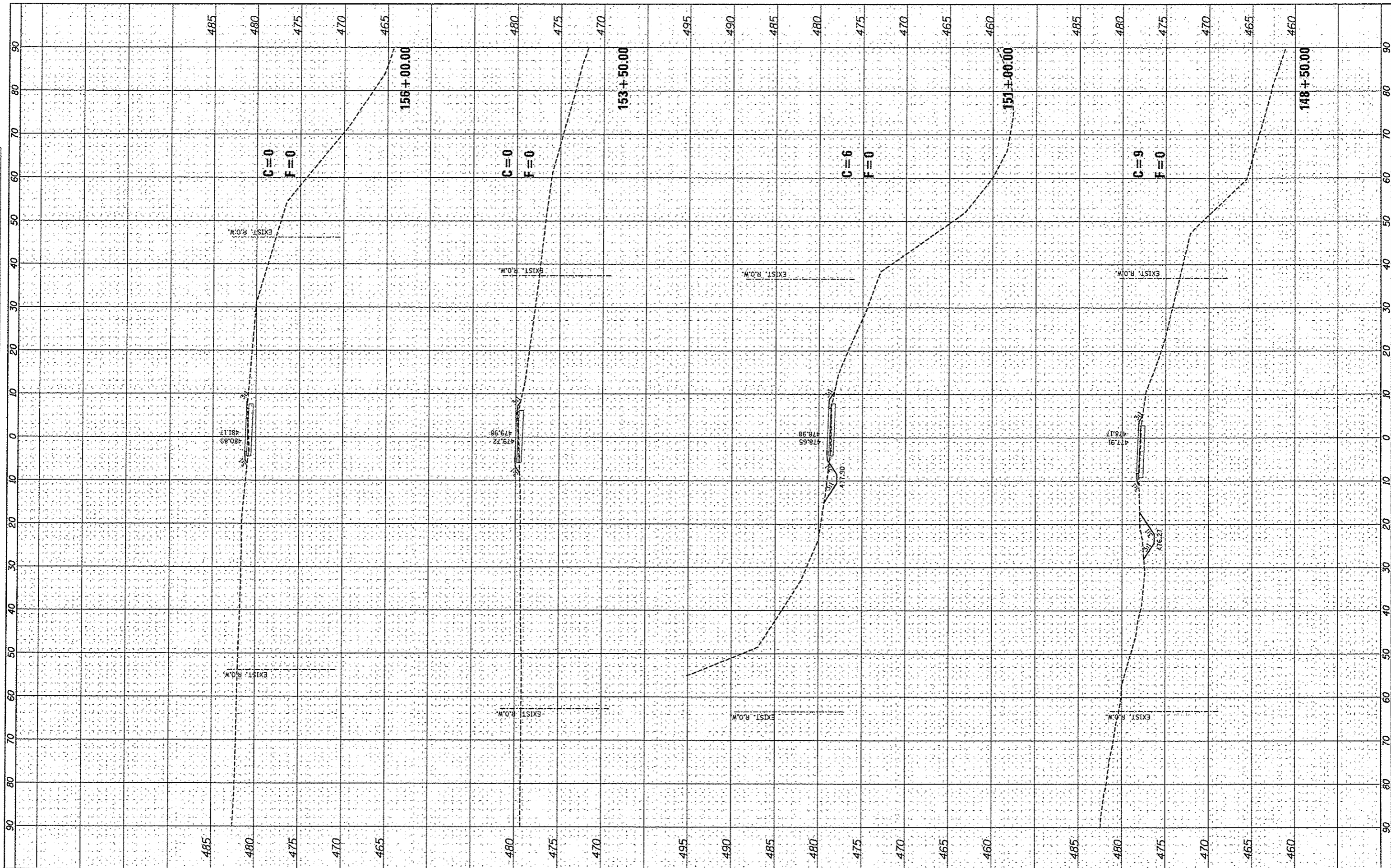
**MADISON COUNTY TRANSIT DISTRICT
HERITAGE BIKEWAY**

**HERITAGE BIKEWAY
CROSS SECTIONS**
SCALE: 1"=10' SHEET NO. 5 OF 46 SHEETS STA. 133+50.00 TO STA. 146+00.00

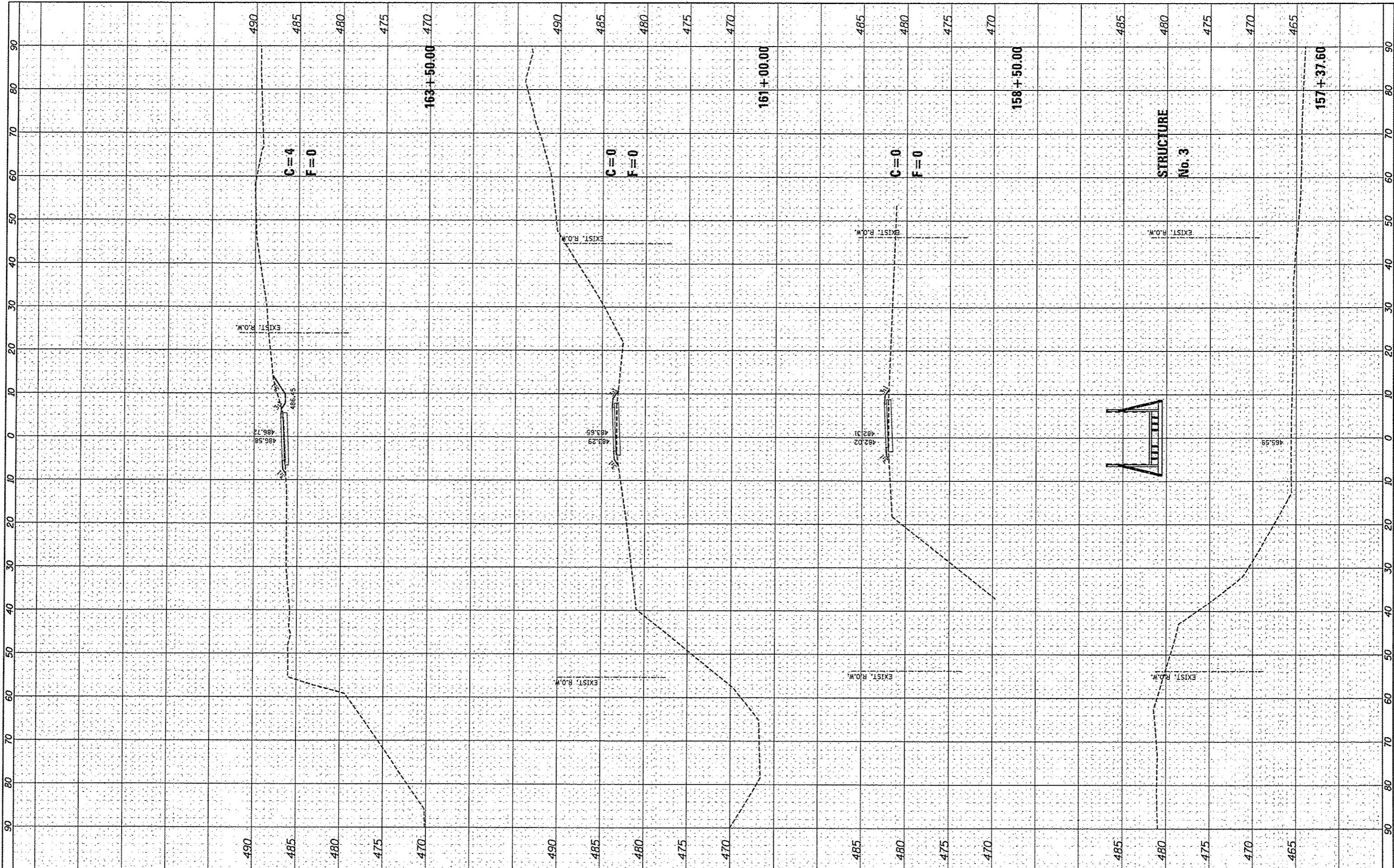
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	06-00016-00-BT	MADISON	310	262
				CONTRACT NO. 97433
				ILLINOIS FED. AID PROJECT

FINAL SURVEY	DATE
SURVEYED	BY
PLOTTED	
TEMPLATE	
AREAS	
CHECKED	
NO.	

ORIGINAL SURVEY	DATE
SURVEYED	BY
PLOTTED	
TEMPLATE	
AREAS	
CHECKED	
NO.	



FILE NAME *	USER NAME = jeromy	DESIGNED - SAS	REVISED -	MADISON COUNTY TRANSIT DISTRICT HERITAGE BIKEWAY	HERITAGE BIKEWAY CROSS SECTIONS			F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*FILE#		DRAWN - JDH	REVISED -		SCALE: 1"=10'			06-00016-00-BT	MADISON	310	263	
		CHECKED - WJB	REVISED -		SHEET NO. 6 OF 46 SHEETS					CONTRACT NO. 97433		
		DATE - 11/30/12	REVISED -		STA. 148+50.00 TO STA. 156+00.00					ILLINOIS FED. AID PROJECT		



DATE	BT
DATE	BT
SURVEYED	PLOTTED
NOTE BOOK	AREAS CHECKED
NO.	NO.

DATE	BT
DATE	BT
SURVEYED	PLOTTED
NOTE BOOK	AREAS CHECKED
NO.	NO.

FILE NAME	USER NAME - jeromy	DESIGNED - SAS	REVISED -
*FILE#		DRAWN - JDH	REVISED -
		CHECKED - WJB	REVISED -
		DATE - 11/30/12	REVISED -
PLOT SCALE - #SCALE#			
PLOT DATE - 12/19/2012			

**MADISON COUNTY TRANSIT DISTRICT
HERITAGE BIKEWAY**

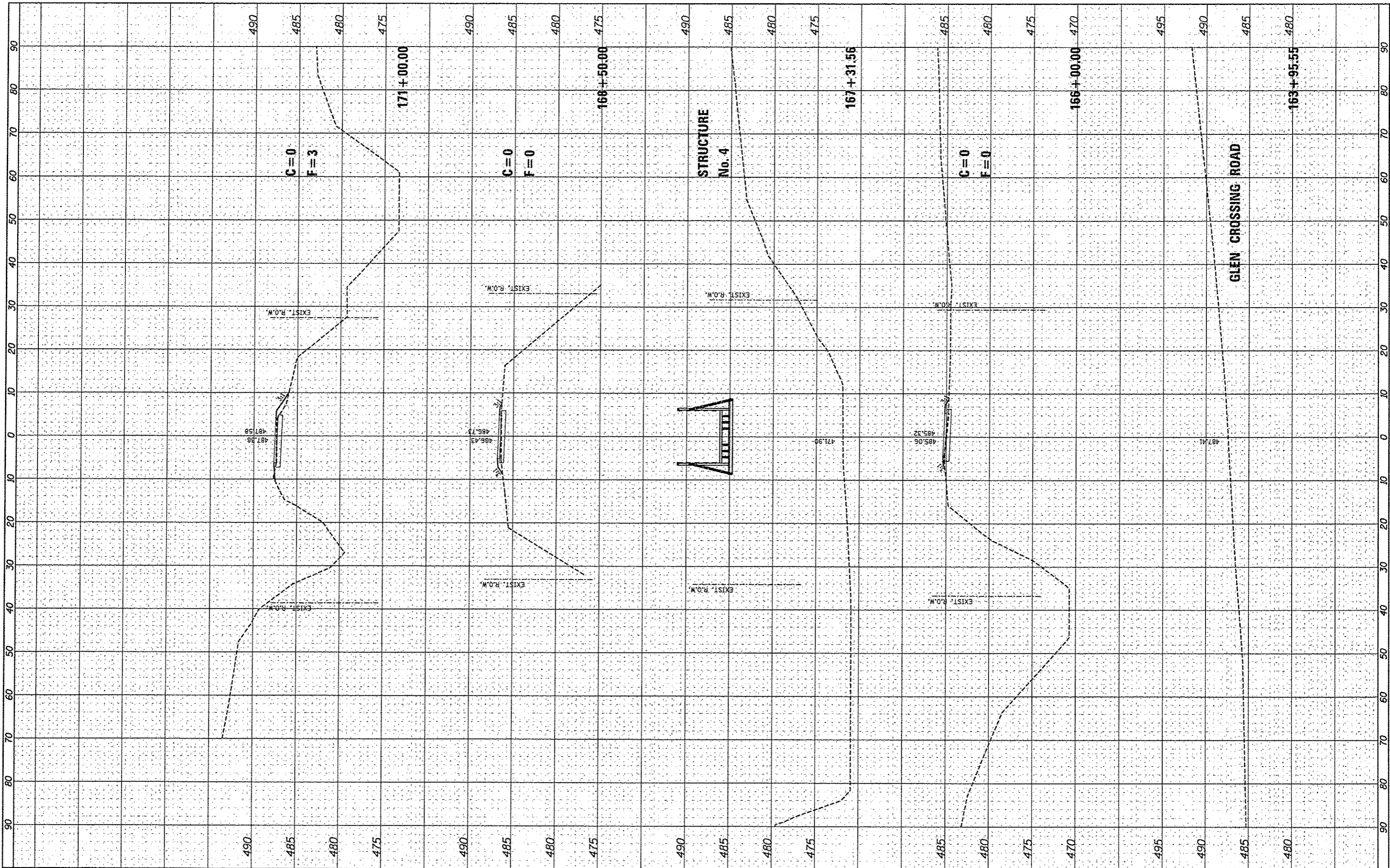
**HERITAGE BIKEWAY
CROSS SECTIONS**

SCALE: 1"=10' SHEET NO. 7 OF 46 SHEETS STA. 157+37.60 TO STA. 163+50.00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	06-00016-00-BT	MADISON	310	264
			CONTRACT NO. 97433	
ILLINOIS FED. AID PROJECT				

FINAL	DATE
SURVEY	BY
NOTED	
PLOTTED	
TEMPLATE	
AREAS	
CHECKED	
NO.	

ORIGINAL	DATE
SURVEY	BY
NOTED	
PLOTTED	
TEMPLATE	
AREAS	
CHECKED	
NO.	



FILE NAME *
#FILE#

USER NAME * Jeremy
DESIGNED - SAS
DRAWN - JDH
CHECKED - WJB
DATE - 11/30/12

REVISED -
REVISED -
REVISED -
REVISED -

**MADISON COUNTY TRANSIT DISTRICT
HERITAGE BIKEWAY**

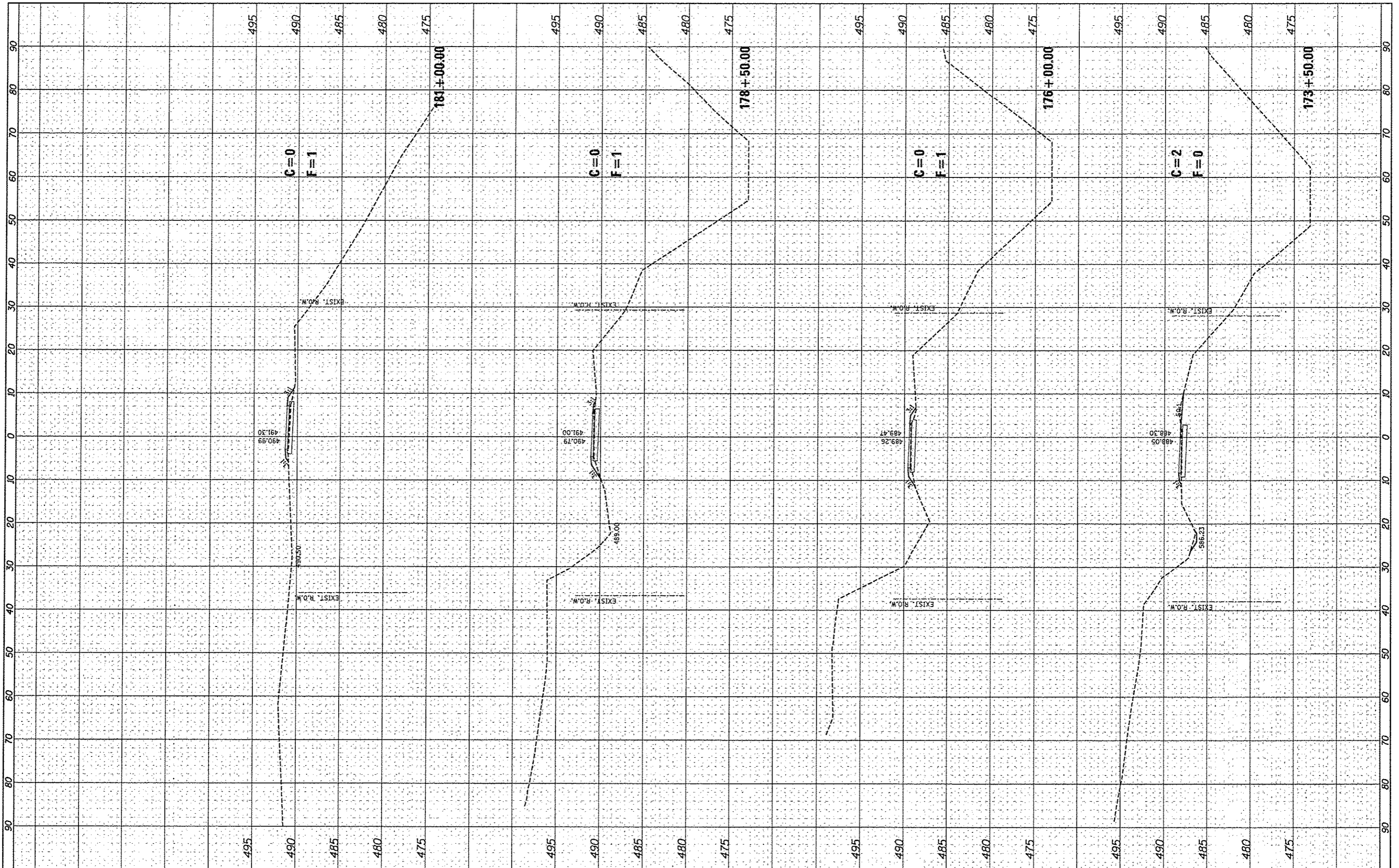
**HERITAGE BIKEWAY
CROSS SECTIONS**

SCALE: 1"=10'
SHEET NO. 8 OF 46 SHEETS
STA. 163+95.55 TO STA. 171+00.00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	06-00016-00-BT	MADISON	310	265
CONTRACT NO. 97433			ILLINOIS FED. AID PROJECT	

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

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



FILE NAME = #FILE#

USER NAME = Jeremy
 DESIGNED - SAS
 DRAWN - JDH
 CHECKED - WJB
 DATE - 11/30/12

REVISIONS
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 REVISED -

**MADISON COUNTY TRANSIT DISTRICT
 HERITAGE BIKEWAY**

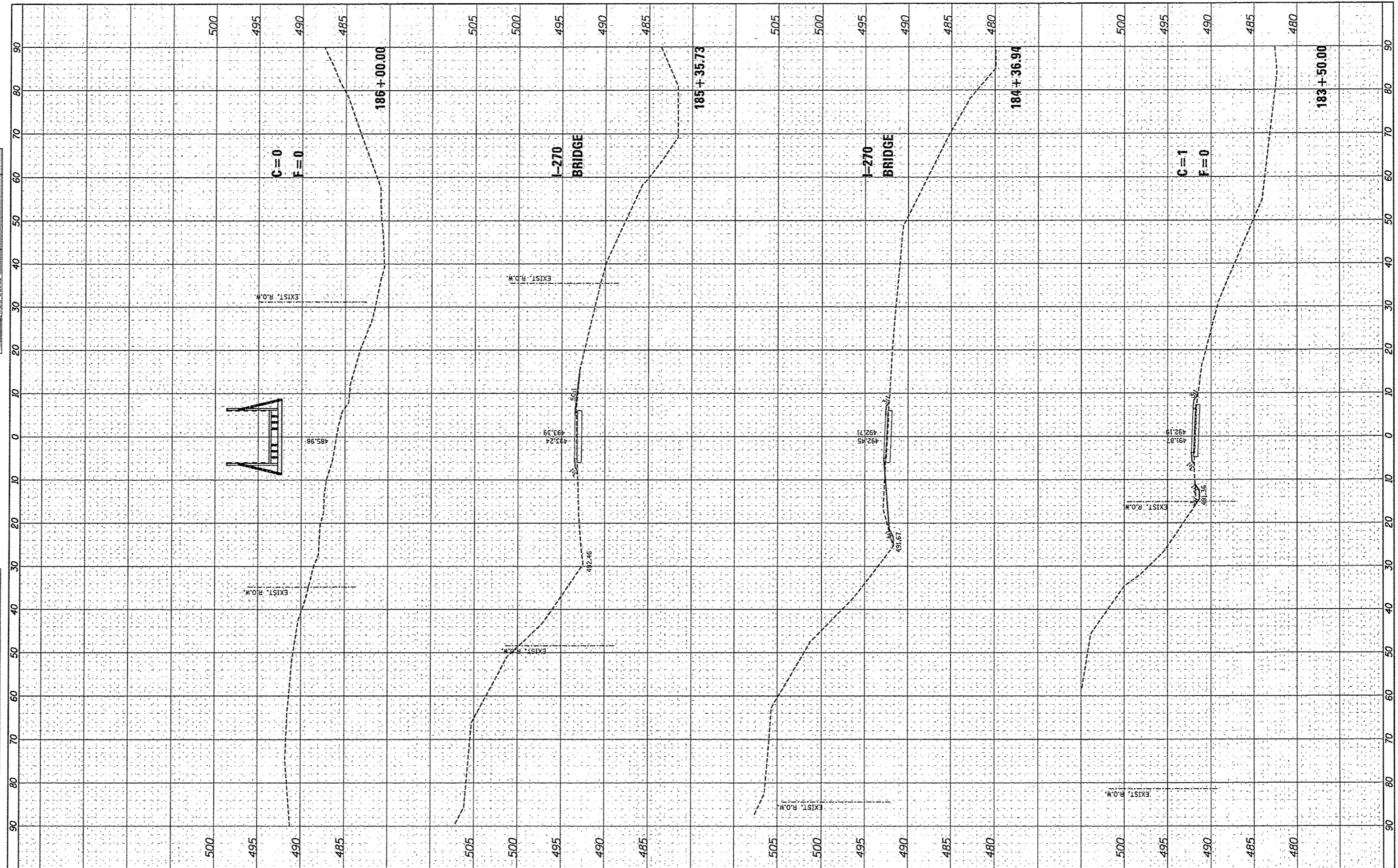
**HERITAGE BIKEWAY
 CROSS SECTIONS**

SCALE: 1"=10' SHEET NO. 9 OF 46 SHEETS STA. 173+50.00 TO STA. 181+00.00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	06-00016-00-BT	MADISON	310	266
CONTRACT NO. 97433				
ILLINOIS FED. AID PROJECT				

FINAL SURVEY	BY	DATE
SURVEYED		
PLOTTED		
NOTE BOOK		
AREAS CHECKED		
AREAS CHECKED		

ORIGINAL SURVEY	BY	DATE
SURVEYED		
PLOTTED		
NOTE BOOK		
AREAS CHECKED		
AREAS CHECKED		



FILE NAME *
FILEL

USER NAME * jeremy
DESIGNED - SAS
DRAWN - JOH
CHECKED - WJB
DATE - 11/30/12

REVISIONS
REVISOR
DATE

REVISOR
DATE

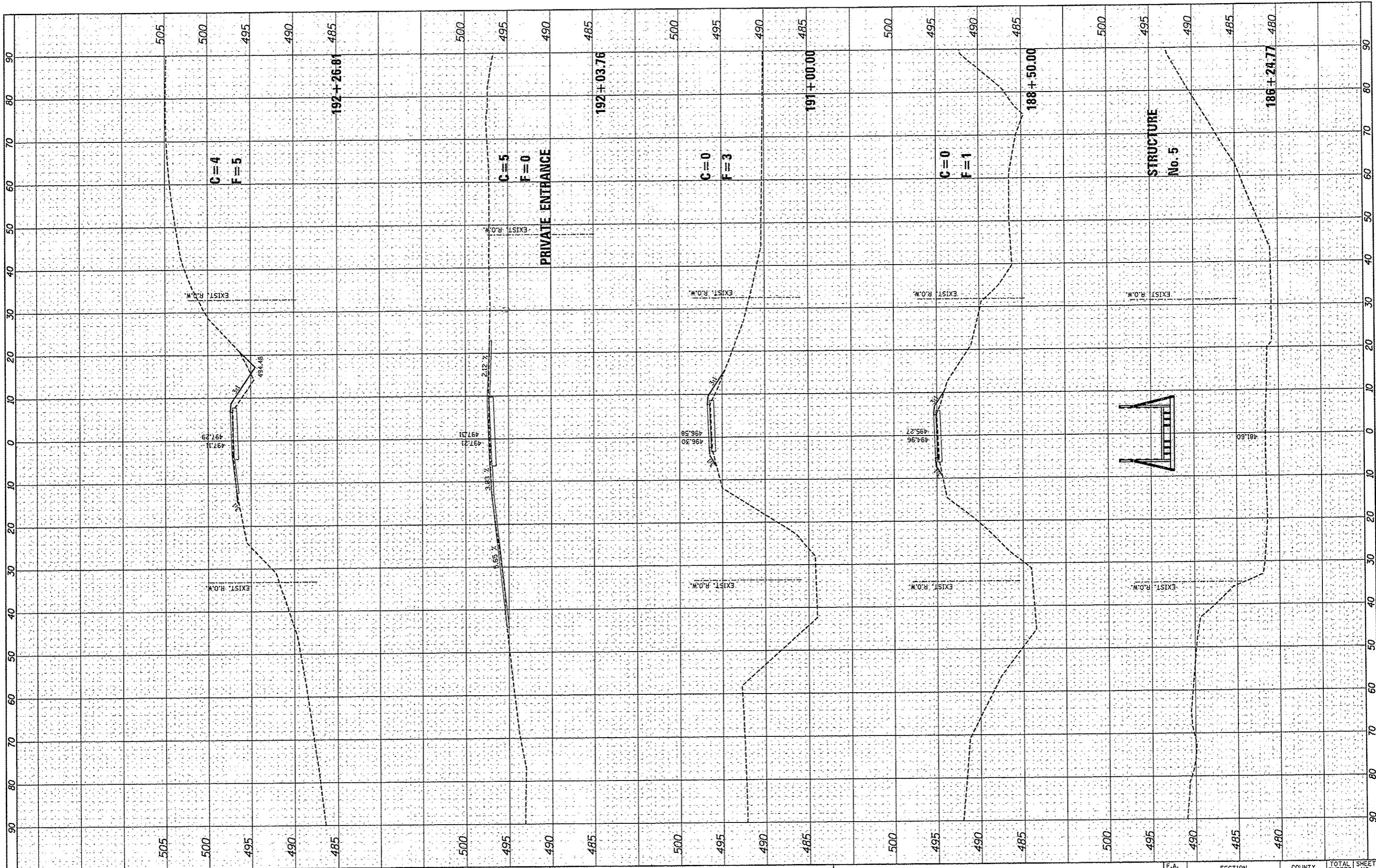
**MADISON COUNTY TRANSIT DISTRICT
HERITAGE BIKEWAY**

**HERITAGE BIKEWAY
CROSS SECTIONS**
SCALE: 1"=10'
SHEET NO. 10 OF 46 SHEETS
STA. 183+50.00 TO STA. 186+00.00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	06-0016-00-BT	MADISON	310	267
CONTRACT NO. 97433			ILLINOIS FED. AID PROJECT	

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

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



FILE NAME *
FILEL

USER NAME * jaronj
DESIGNED - SAS
DRAWN - JDH
CHECKED - WJB
DATE - 11/30/12
PLOT SCALE * #SCALE*
PLOT DATE * 12/19/2012

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REVISED -
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REVISED -

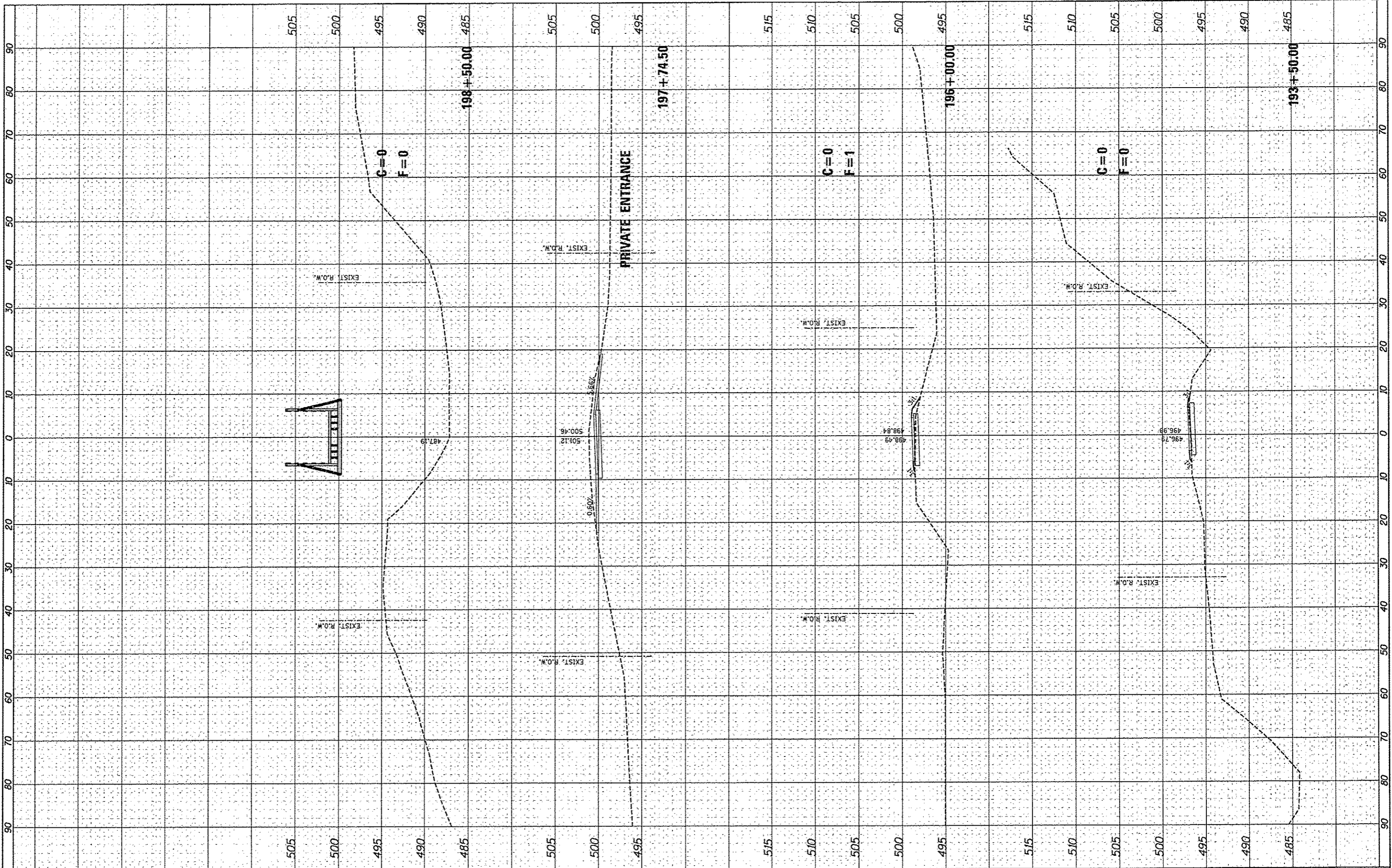
**MADISON COUNTY TRANSIT DISTRICT
HERITAGE BIKEWAY**

**HERITAGE BIKEWAY
CROSS SECTIONS**
SCALE: 1"=10'
SHEET NO. 11 OF 46 SHEETS
STA. 186+24.77 TO STA. 192+26.81

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	06-00016-00-BT	MADISON	310	268
			CONTRACT NO. 97433	
ILLINOIS FED. AID PROJECT				

DATE	
BY	
FINISHED SURVEY	
PLOTTED	
NOTE BOOK	
AREAS CHECKED	

DATE	
BY	
ORIGINAL SURVEY	
PLOTTED	
NOTE BOOK	
AREAS CHECKED	



FILE NAME *
#FILEL#

USER NAME * Jeremy
DESIGNED - SAS
DRAWN - JDH
CHECKED - WJB
DATE - 11/30/12

REVISIONS
REVISED -
REVISED -
REVISED -
REVISED -

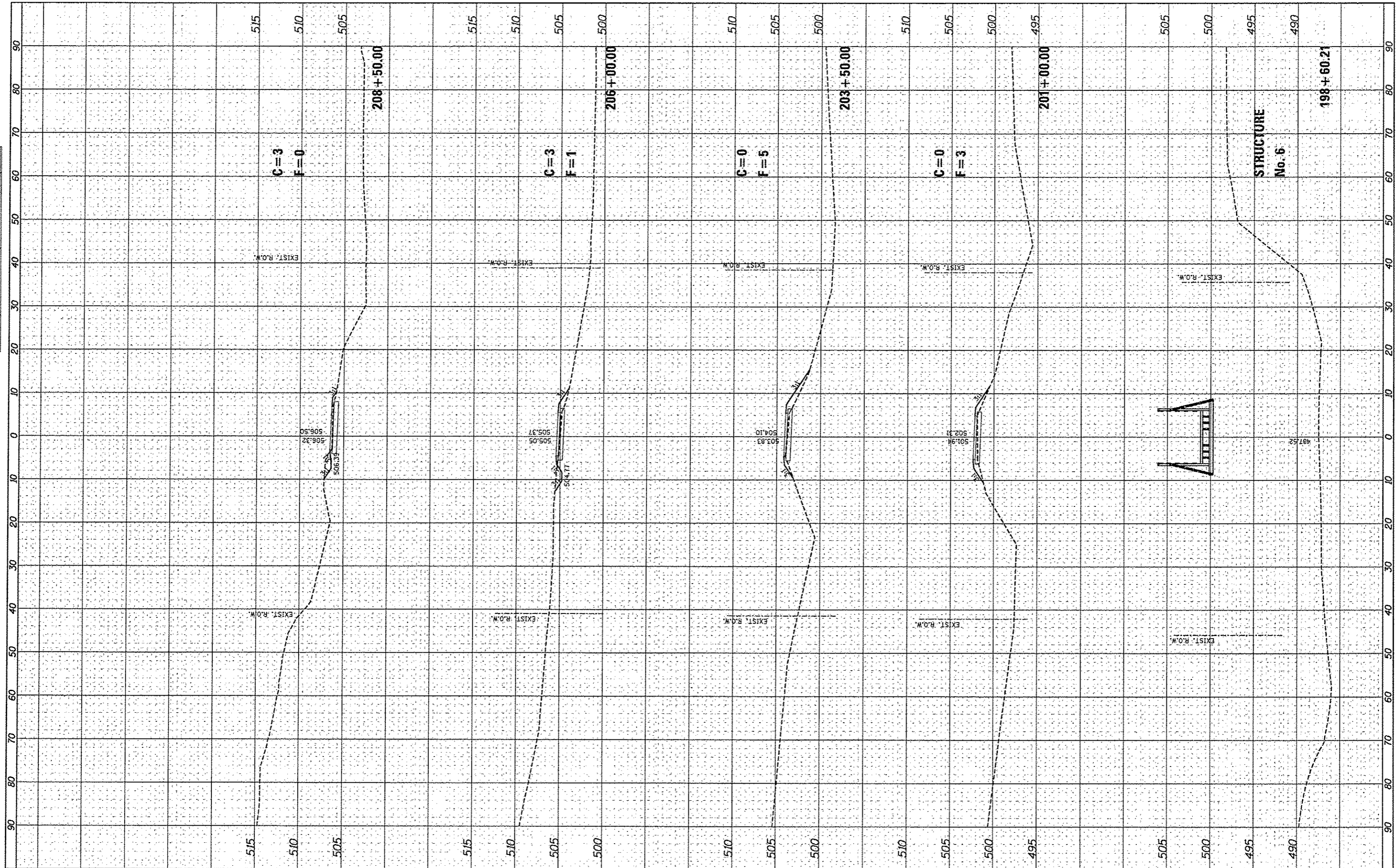
**MADISON COUNTY TRANSIT DISTRICT
HERITAGE BIKEWAY**

**HERITAGE BIKEWAY
CROSS SECTIONS**
SCALE: 1"=10'
SHEET NO. 12 OF 46 SHEETS
STA. 193+50.00 TO STA. 198+50.00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	06-00016-00-BT	MADISON	310	269
CONTRACT NO. 97433				
ILLINOIS FED. AID PROJECT				

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

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



FILE NAME *
#FILE#

USER NAME = jeramy
DESIGNED - SAS
DRAWN - JQH
CHECKED - WJB
DATE - 11/30/12

REVISED -
REVISED -
REVISED -
REVISED -

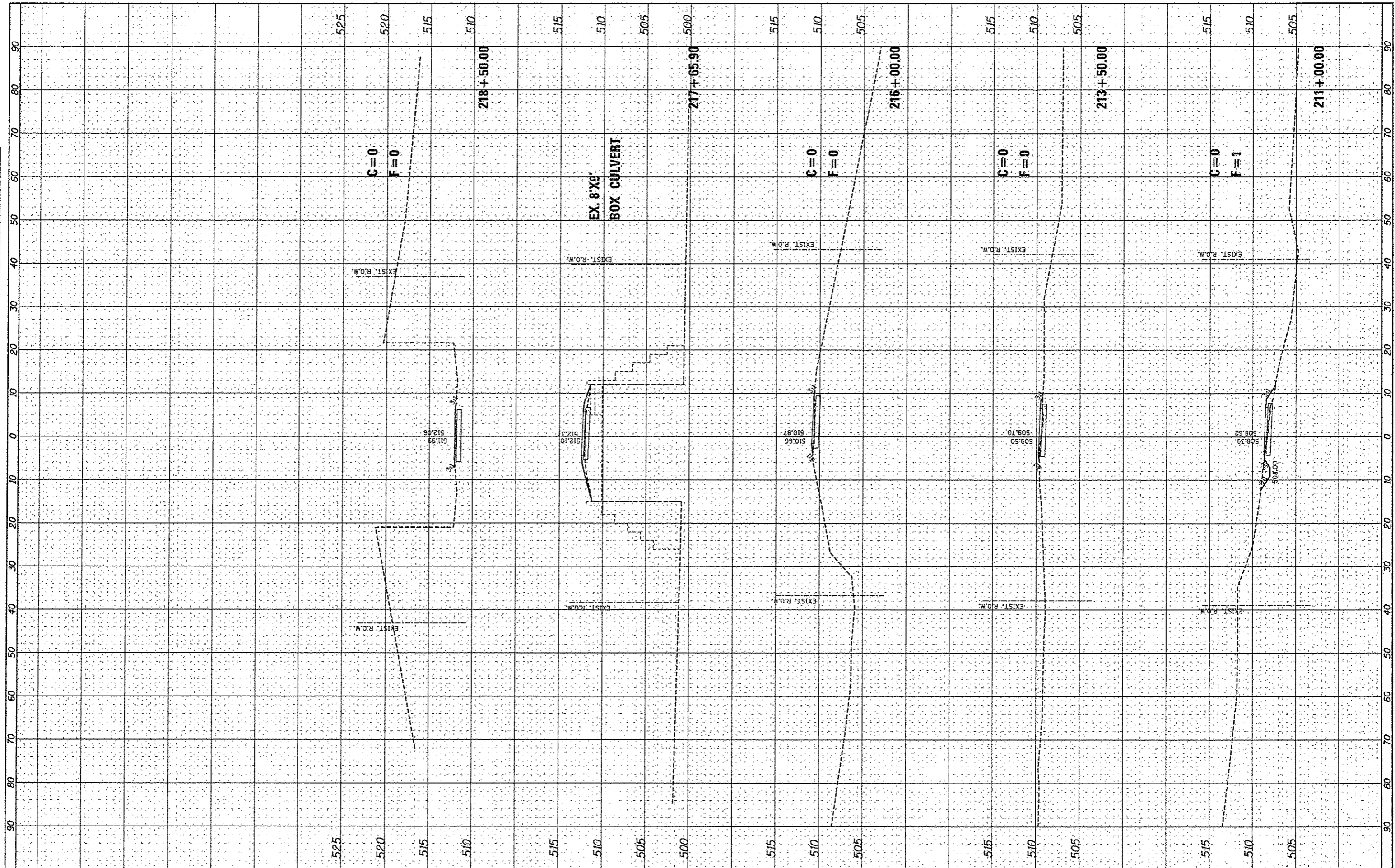
**MADISON COUNTY TRANSIT DISTRICT
HERITAGE BIKEWAY**

**HERITAGE BIKEWAY
CROSS SECTIONS**
SCALE: 1"=10'
SHEET NO. 13 OF 46 SHEETS
STA. 198+60.21 TO STA. 208+50.00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	06-00016-00-BT	MADISON	310	270
			CONTRACT NO. 97433	
[ILLINOIS] FED. AID PROJECT				

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

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



FILE NAME *
FILE

USER NAME * Jeremy
PLOT SCALE * SCALE *
PLOT DATE = 12/19/2012

DESIGNED - SAS
DRAWN - JDH
CHECKED - WJB
DATE - 11/30/12

REVISED -
REVISED -
REVISED -
REVISED -

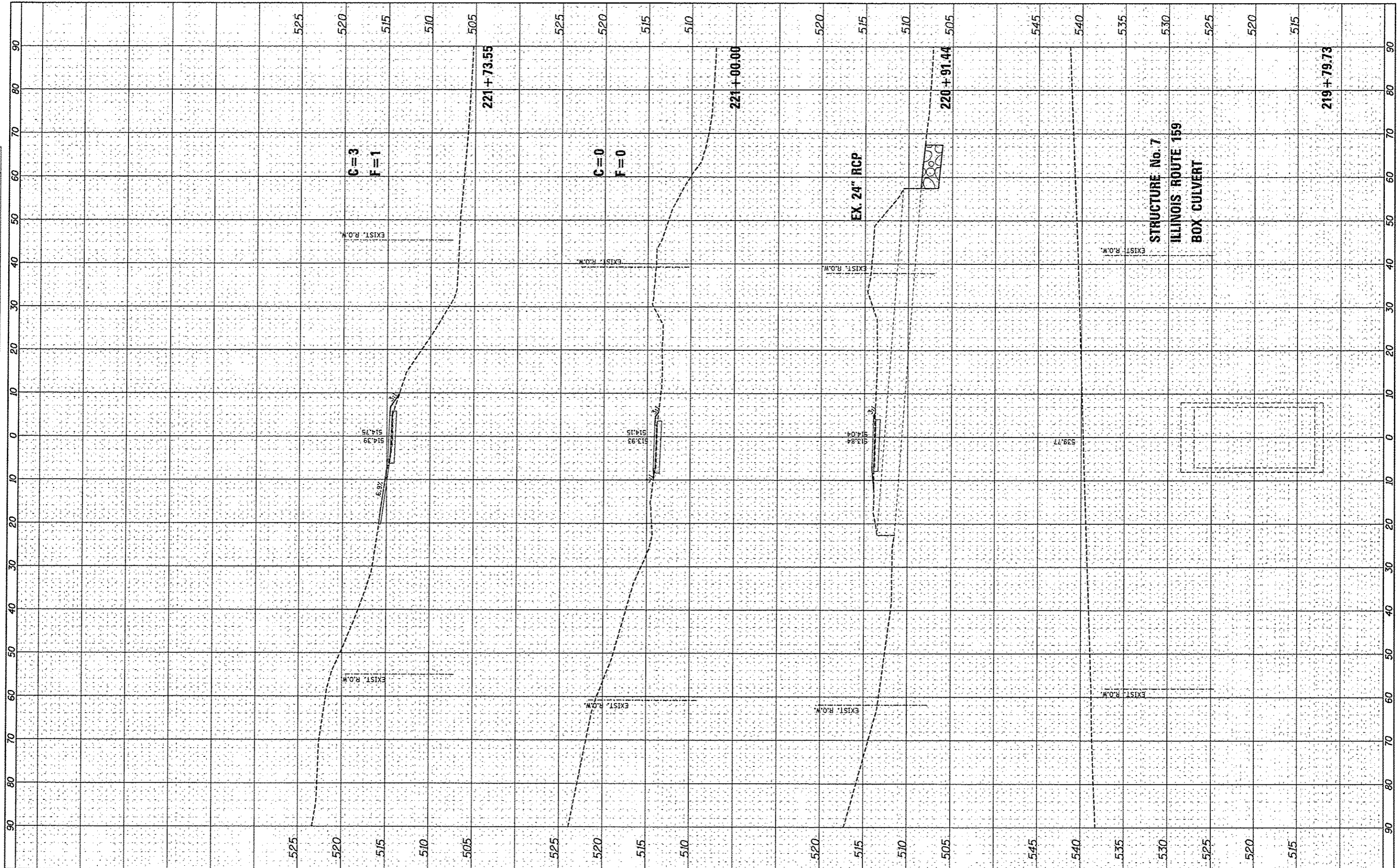
**MADISON COUNTY TRANSIT DISTRICT
HERITAGE BIKEWAY**

**HERITAGE BIKEWAY
CROSS SECTIONS**
SCALE: 1"=10'
SHEET NO. 14 OF 46 SHEETS
STA. 211+00.00 TO STA. 218+50.00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	06-00016-00-BT	MADISON	310	271
			CONTRACT NO. 97433	
ILLINOIS FED. AID PROJECT				

DATE	
BY	
SURVEYED	
PLOTTED	
TEMPLATE	
NOTE BOOK	
ASAS CHECKED	
NO.	

DATE	
BY	
SURVEYED	
PLOTTED	
TEMPLATE	
NOTE BOOK	
ASAS CHECKED	
NO.	



FILE NAME	
#FILE#	

USER NAME	Jeremy
DESIGNED	SAS
DRAWN	JDH
CHECKED	WJB
DATE	11/30/12
PLLOT SCALE	#SCALE#
PLLOT DATE	12/19/2012

DESIGNED	SAS	REVISED	-
DRAWN	JDH	REVISED	-
CHECKED	WJB	REVISED	-
DATE	11/30/12	REVISED	-

DESIGNED	SAS	REVISED	-
DRAWN	JDH	REVISED	-
CHECKED	WJB	REVISED	-
DATE	11/30/12	REVISED	-

**MADISON COUNTY TRANSIT DISTRICT
HERITAGE BIKEWAY**

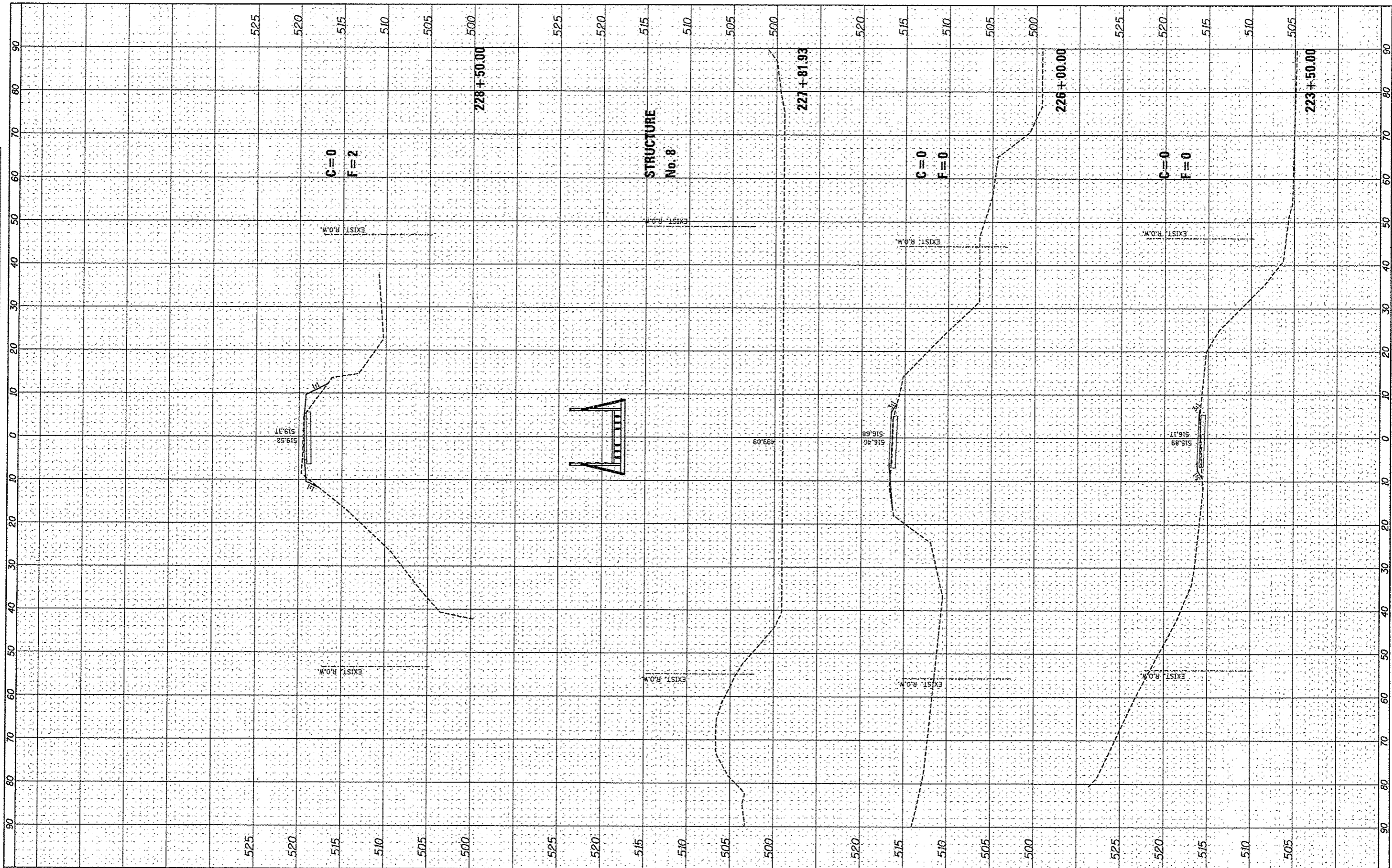
**HERITAGE BIKEWAY
CROSS SECTIONS**

SCALE: 1"=10' SHEET NO. 15 OF 46 SHEETS STA. 219+79.73 TO STA. 221+73.55

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	06-00016-00-BT	MADISON	310	272
			CONTRACT NO. 97433	
ILLINOIS FED. AID PROJECT				

FINAL SURVEY	DATE
PLOTTED	
NOTE BOOK	
TEMPERATURE	
ASSETS CHECKED	
NO.	

ORIGINAL SURVEY	DATE
PLOTTED	
NOTE BOOK	
TEMPERATURE	
ASSETS CHECKED	
NO.	



FILE NAME *
#FILE#

USER NAME * Jeremy
DESIGNED - SAS
DRAWN - JDB
CHECKED - WJB
DATE - 11/30/12

REVISED -
REVISED -
REVISED -
REVISED -

**MADISON COUNTY TRANSIT DISTRICT
HERITAGE BIKEWAY**

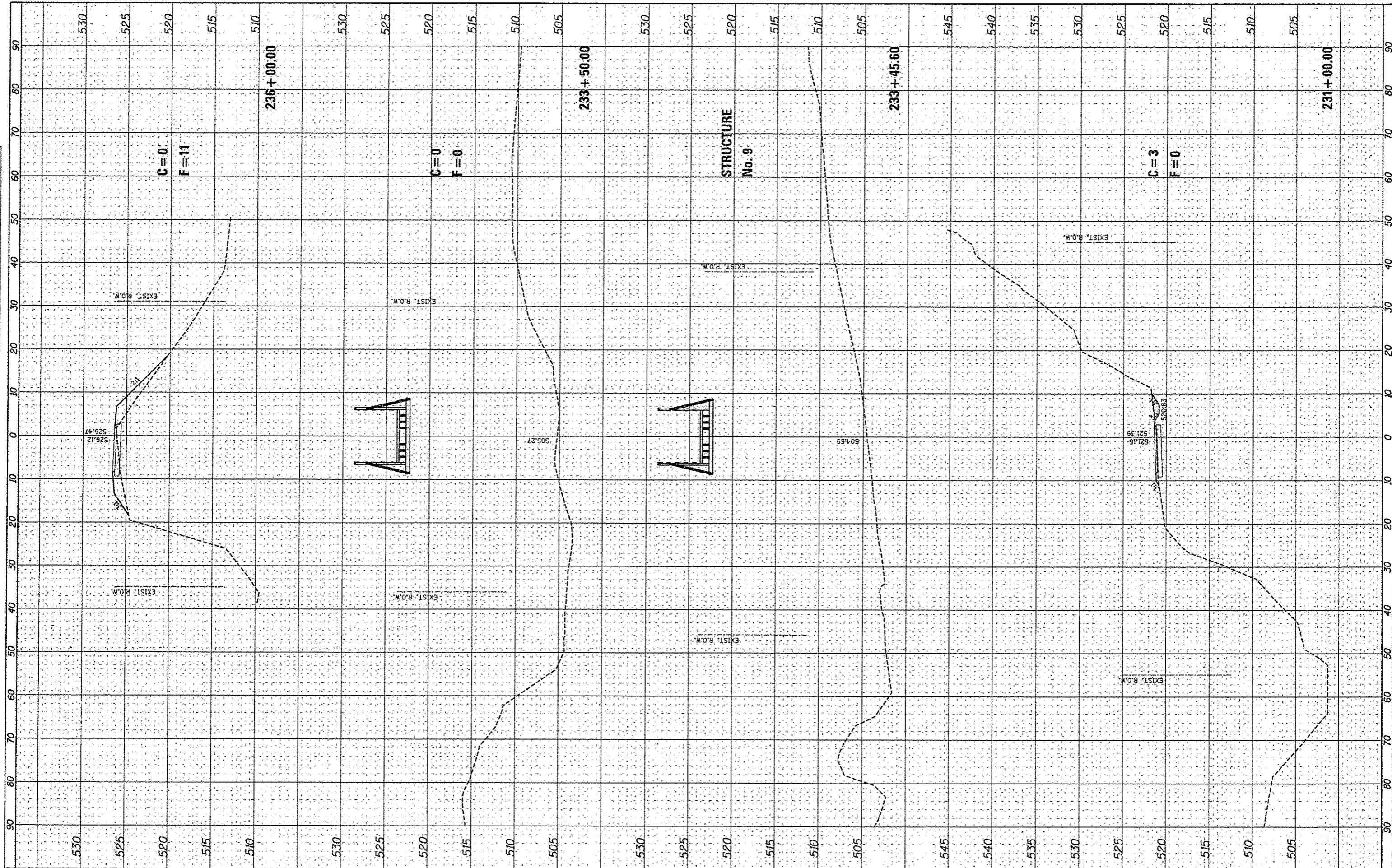
SCALE: 1"=10'
SHEET NO. 16 OF 46 SHEETS
STA. 223+50.00 TO STA. 228+50.00

**HERITAGE BIKEWAY
CROSS SECTIONS**

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	06-00016-00-BT	MADISON	310	273
			CONTRACT NO. 97433	
ILLINOIS PED. AID PROJECT				

FINAL SURVEY	DATE
PROFITED	
NOTE BOOK	
TEMPLATE	
AREAS CHECKED	
NO.	

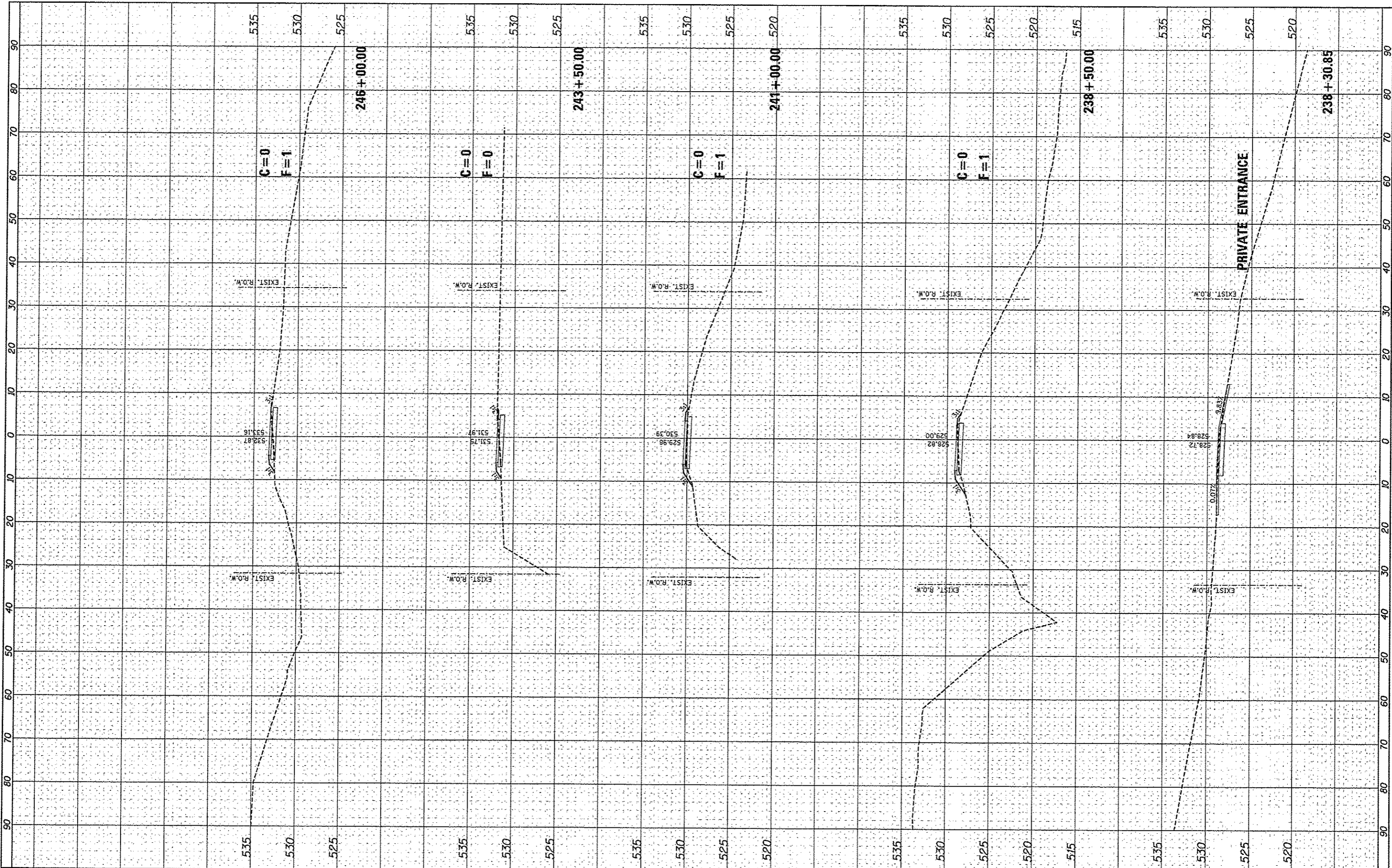
ORIGINAL SURVEY	DATE
PROFITED	
NOTE BOOK	
TEMPLATE	
AREAS CHECKED	
NO.	



FILE NAME *	USER NAME = Jeremy	DESIGNED - SAS	REVISED -	MADISON COUNTY TRANSIT DISTRICT HERITAGE BIKEWAY	HERITAGE BIKEWAY CROSS SECTIONS			F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
#FILE#		DRAWN - JDH	REVISED -					06-00016-00-BT	MADISON	310	274	
		CHECKED - WJB	REVISED -					CONTRACT NO. 97433				
		DATE - 11/30/12	REVISED -					ILLINOIS FED. AID PROJECT				
				SCALE: 1"=10'		SHEET NO. 17 OF 46 SHEETS		STA. 231+00.00 TO STA. 236+00.00				

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

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



FILE NAME *	USER NAME = Jeremy
#FILE#	DESIGNED - SAS
	DRAWN - JDH
	CHECKED - WJB
	DATE - 11/30/12
	PLOT SCALE = #SCALE#
	PLOT DATE = 12/19/2012

REVISED -	REVISED -
REVISED -	REVISED -
REVISED -	REVISED -
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**MADISON COUNTY TRANSIT DISTRICT
HERITAGE BIKEWAY**

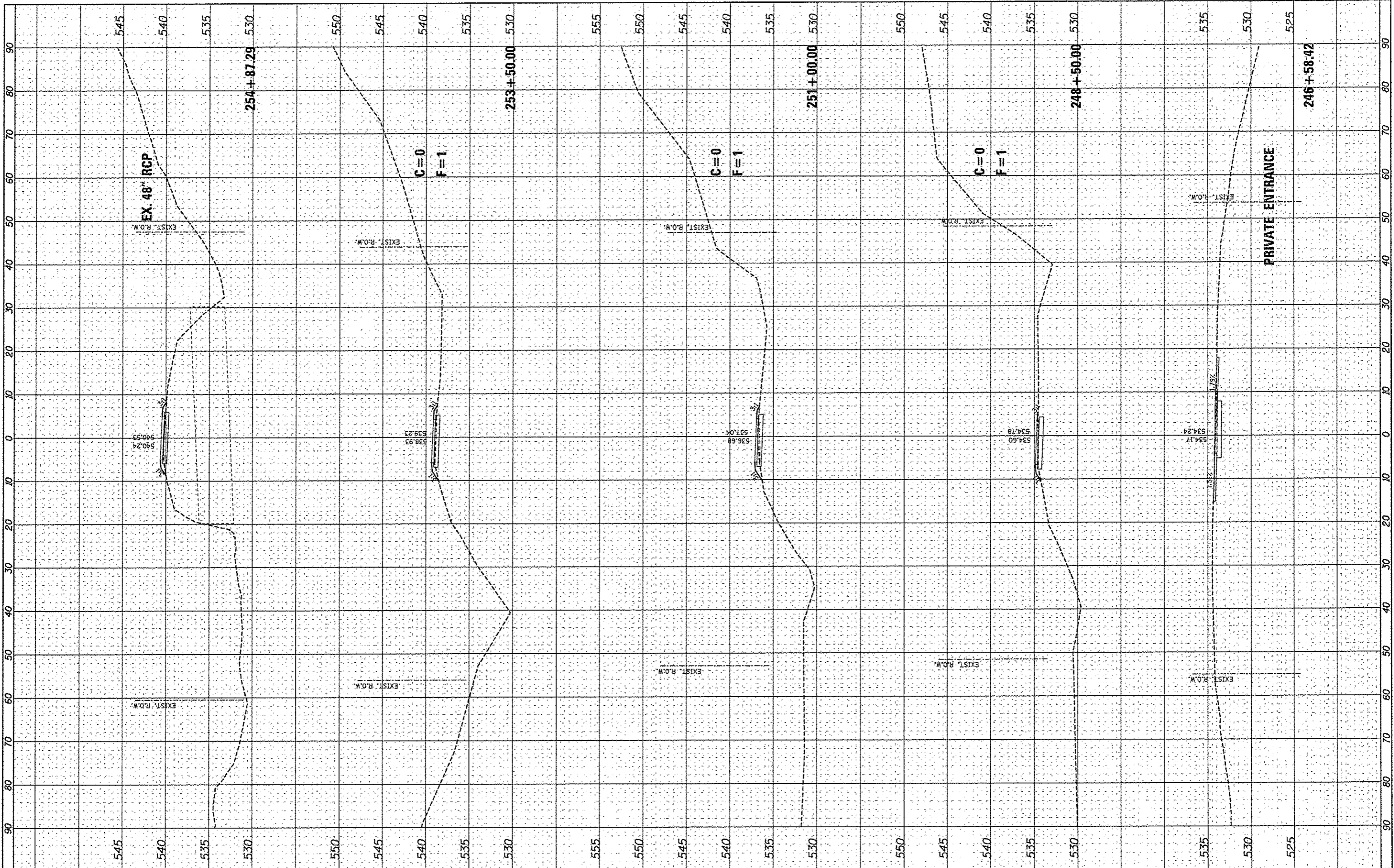
SCALE: 1"=10'	SHEET NO. 18 OF 46 SHEETS	STA. 238+30.85 TO STA. 246+00.00
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**HERITAGE BIKEWAY
CROSS SECTIONS**

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	06-00016-00-8T	MADISON	310	275
			CONTRACT NO. 97433	
ILLINOIS/FEQ. AID PROJECT				

FINAL SURVEY	BY	DATE
SURVEYED		
PLOTTED		
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AREAS CHECKED		
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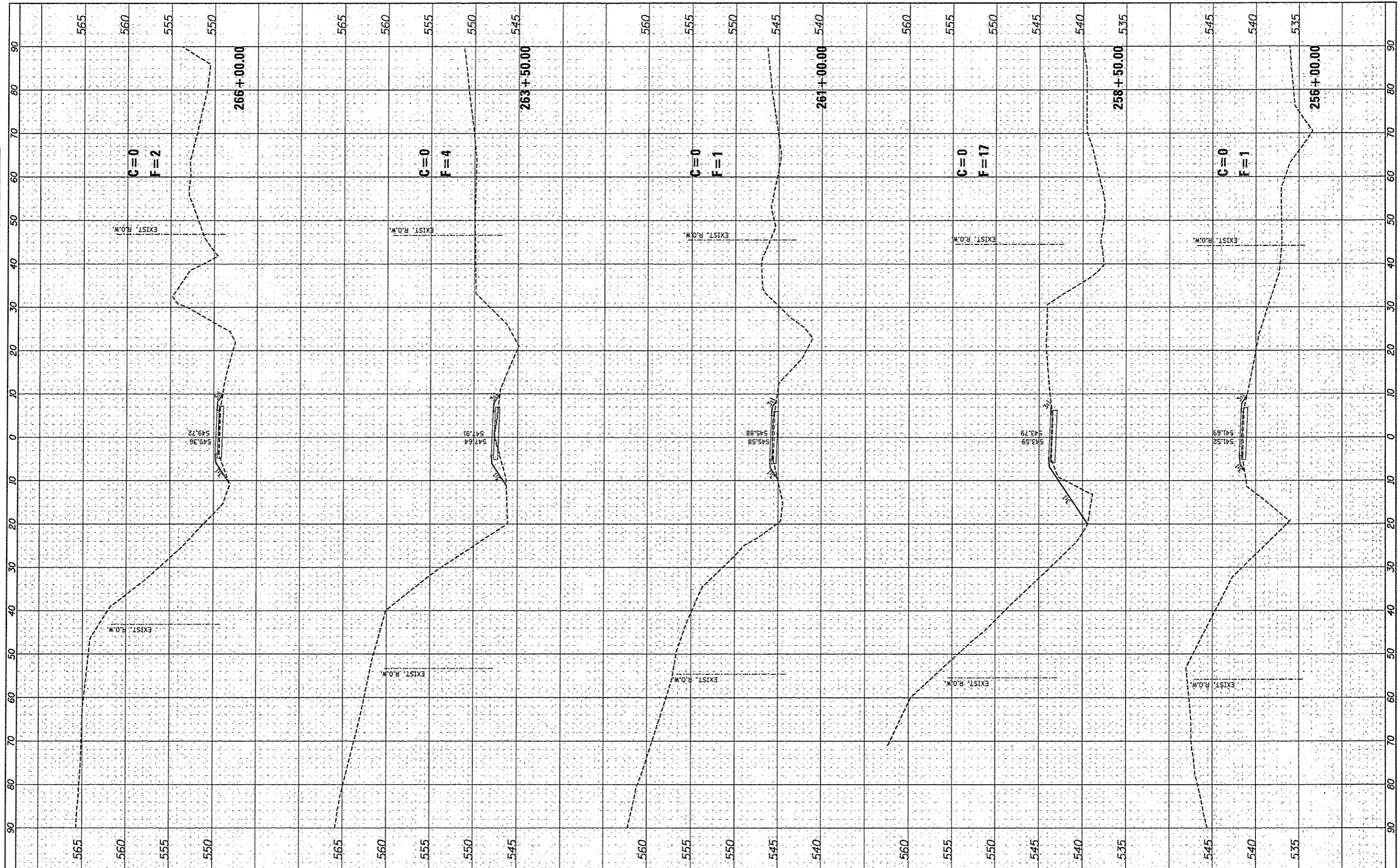
ORIGINAL SURVEY	BY	DATE
SURVEYED		
PLOTTED		
INSTRUMENT		
AREAS CHECKED		
NO.		



FILE NAME *	USER NAME * Jeremy	DESIGNED - SAS	REVISED -	MADISON COUNTY TRANSIT DISTRICT HERITAGE BIKEWAY	HERITAGE BIKEWAY CROSS SECTIONS			F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
#FILE#		DRAWN - JDH	REVISED -		SCALE: 1"=10'	SHEET NO. 19 OF 46 SHEETS	STA. 246+58.42 TO STA. 254+87.29	06-00016-00-BT	MADISON	310	276	
		CHECKED - WJB	REVISED -									
		PLLOT DATE = 12/19/2012	DATE - 11/30/12									
			REVISED -									CONTRACT NO. 97433
												ILLINOIS FED. AID PROJECT

BY	DATE

BY	DATE



FILE NAME *	
*FILE#	

USER NAME *	Jeremy
DESIGNED -	SAS
DRAWN -	JDH
CHECKED -	WJB
DATE -	11/30/12

REVISED -	
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REVISED -	

REVISIONS	

**MADISON COUNTY TRANSIT DISTRICT
HERITAGE BIKEWAY**

SCALE:	1"=10'
SHEET NO. 20 OF 46 SHEETS	
STA. 256+00.00 TO STA. 266+00.00	

**HERITAGE BIKEWAY
CROSS SECTIONS**

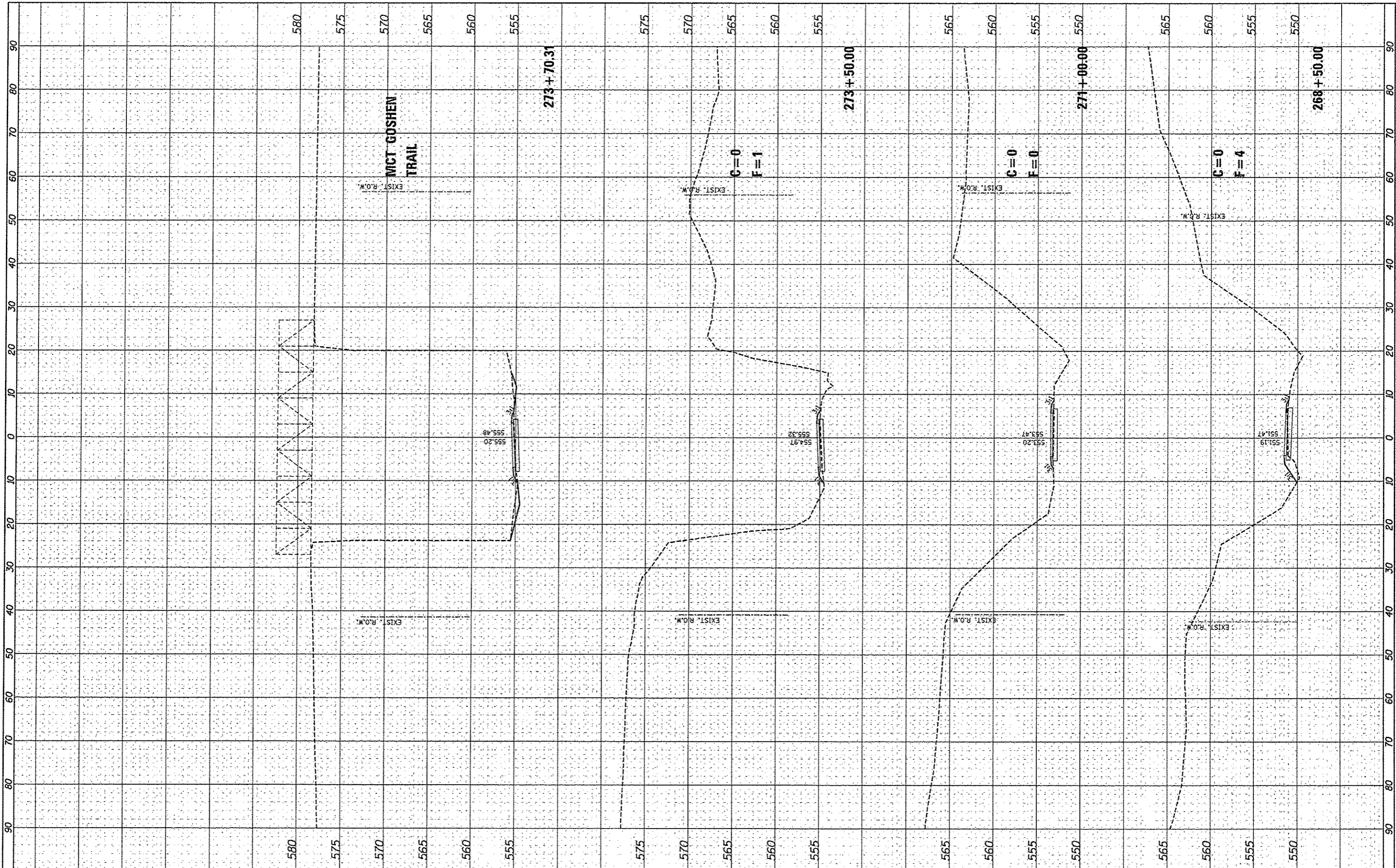
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	06-00016-00-BT	MADISON	310	277

CONTRACT NO. 97433

ILLINOIS FED. AID PROJECT

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

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



FILE NAME *
#FILE#

USER NAME * jeremy
DESIGNED - SAS
DRAWN - JDH
CHECKED - WJB
DATE - 11/30/12

REVISIONS
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**MADISON COUNTY TRANSIT DISTRICT
HERITAGE BIKEWAY**

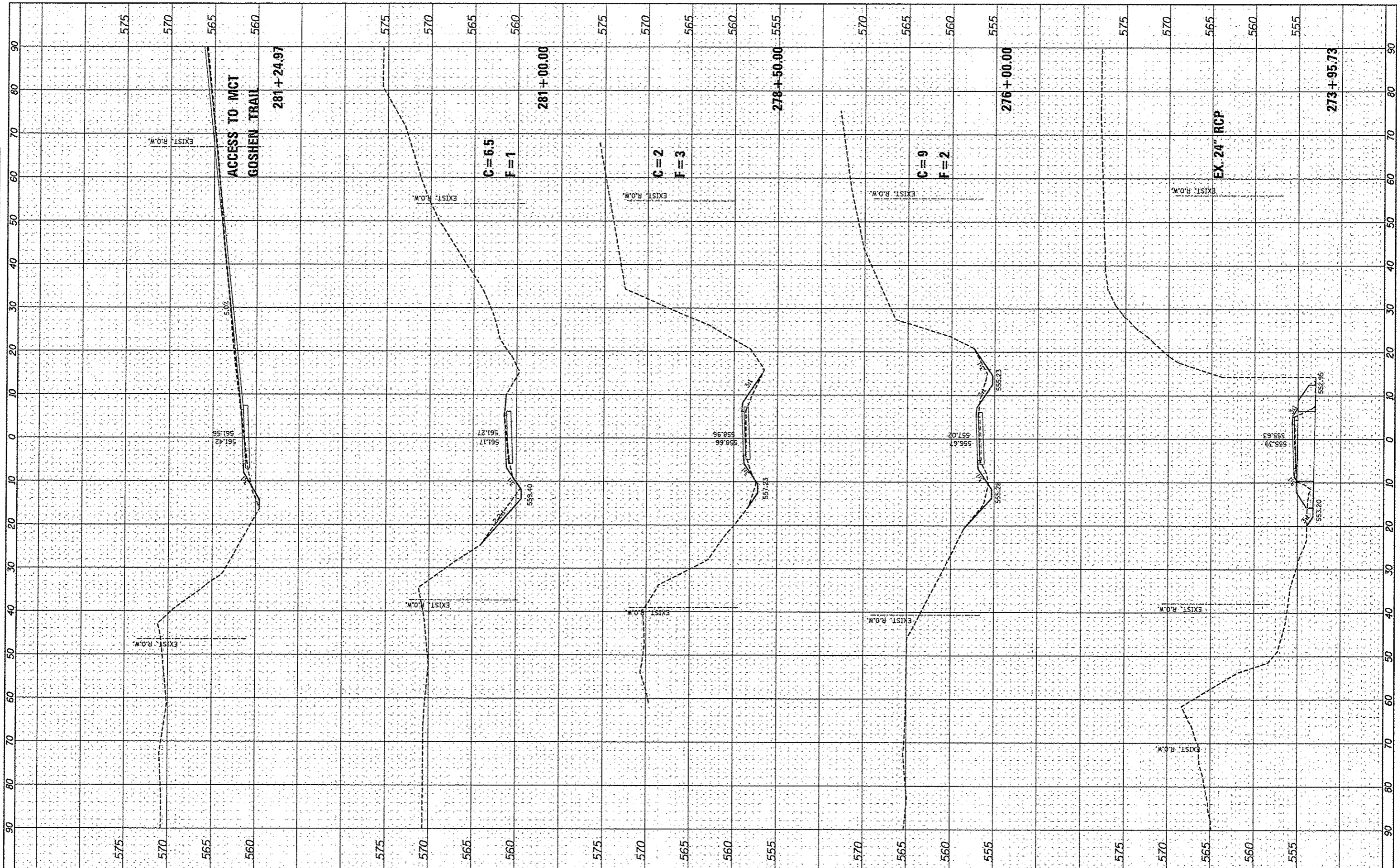
**HERITAGE BIKEWAY
CROSS SECTIONS**

SCALE: 1"=10'
SHEET NO. 21 OF 46 SHEETS
STA. 268+50.00 TO STA. 273+70.31

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	06-00016-00-BT	MADISON	310	278
CONTRACT NO. 97433				
ILLINOIS FED. AID PROJECT				

DATE	BY
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SURVEYED	
PLOTTED	
NOTE BOOK	
AREAS CHECKED	

DATE	BT
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ORIGINAL SURVEY	
PLOTTED	
NOTE BOOK	
AREAS CHECKED	



FILE NAME *	USER NAME • Jeremy	DESIGNED - SAS	REVISED -
#FILE#		DRAWN - JDH	REVISED -
		CHECKED - WJB	REVISED -
		DATE - 11/30/12	REVISED -
		PLOT DATE = 12/19/2012	

**MADISON COUNTY TRANSIT DISTRICT
HERITAGE BIKEWAY**

**HERITAGE BIKEWAY
CROSS SECTIONS**

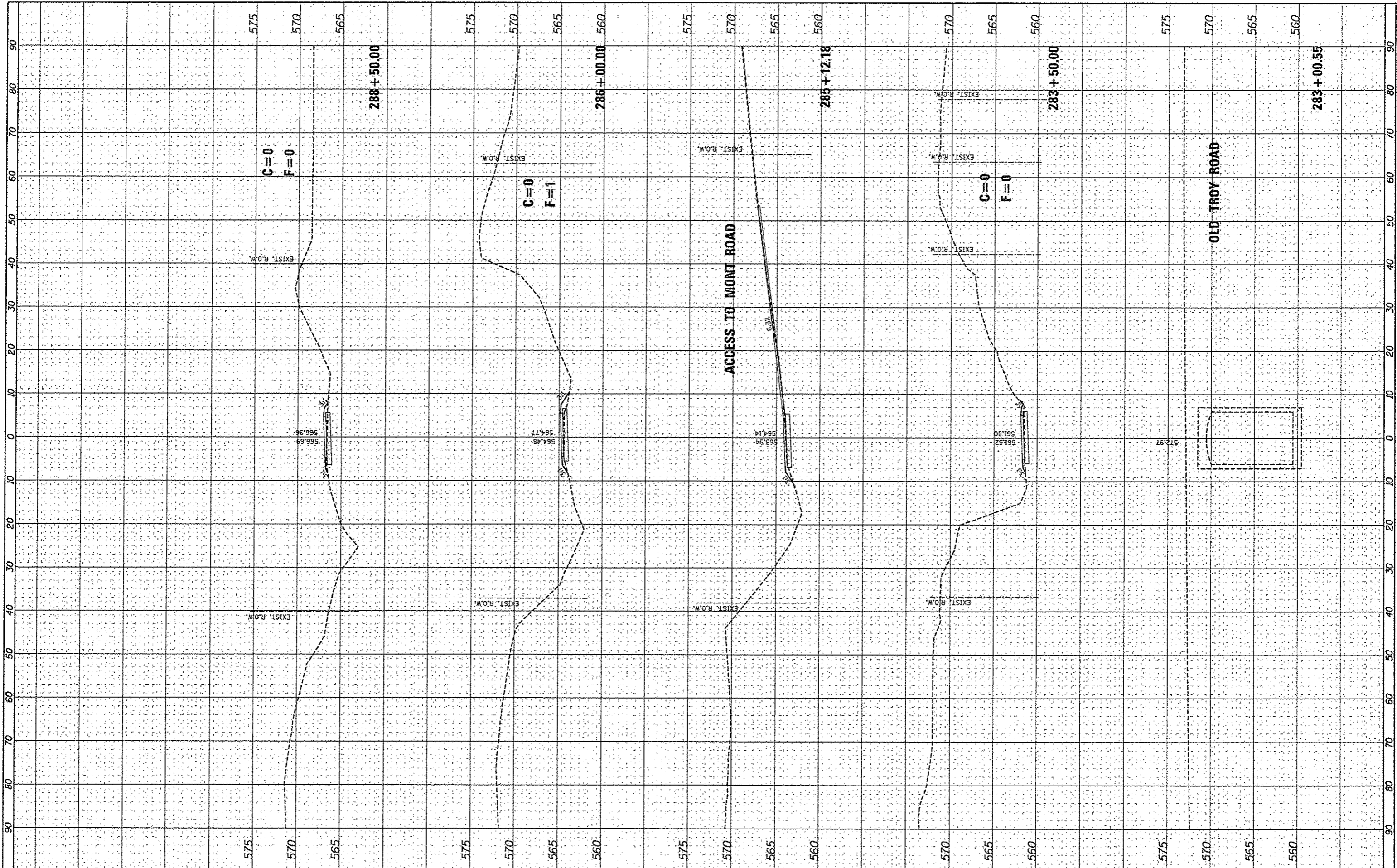
SCALE: 1"=10' SHEET NO. 22 OF 46 SHEETS STA. 273+95.73 TO STA. 281+24.97

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	06-00016-00-BT	MADISON	310	279
			CONTRACT NO. 97433	

ILLINOIS FED. AID PROJECT

DATE	
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FILE NAME *
#FILE#

USER NAME * Jeremy
DESIGNED - SAS
DRAWN - JDH
CHECKED - WJB
DATE - 11/30/12

REVISED -
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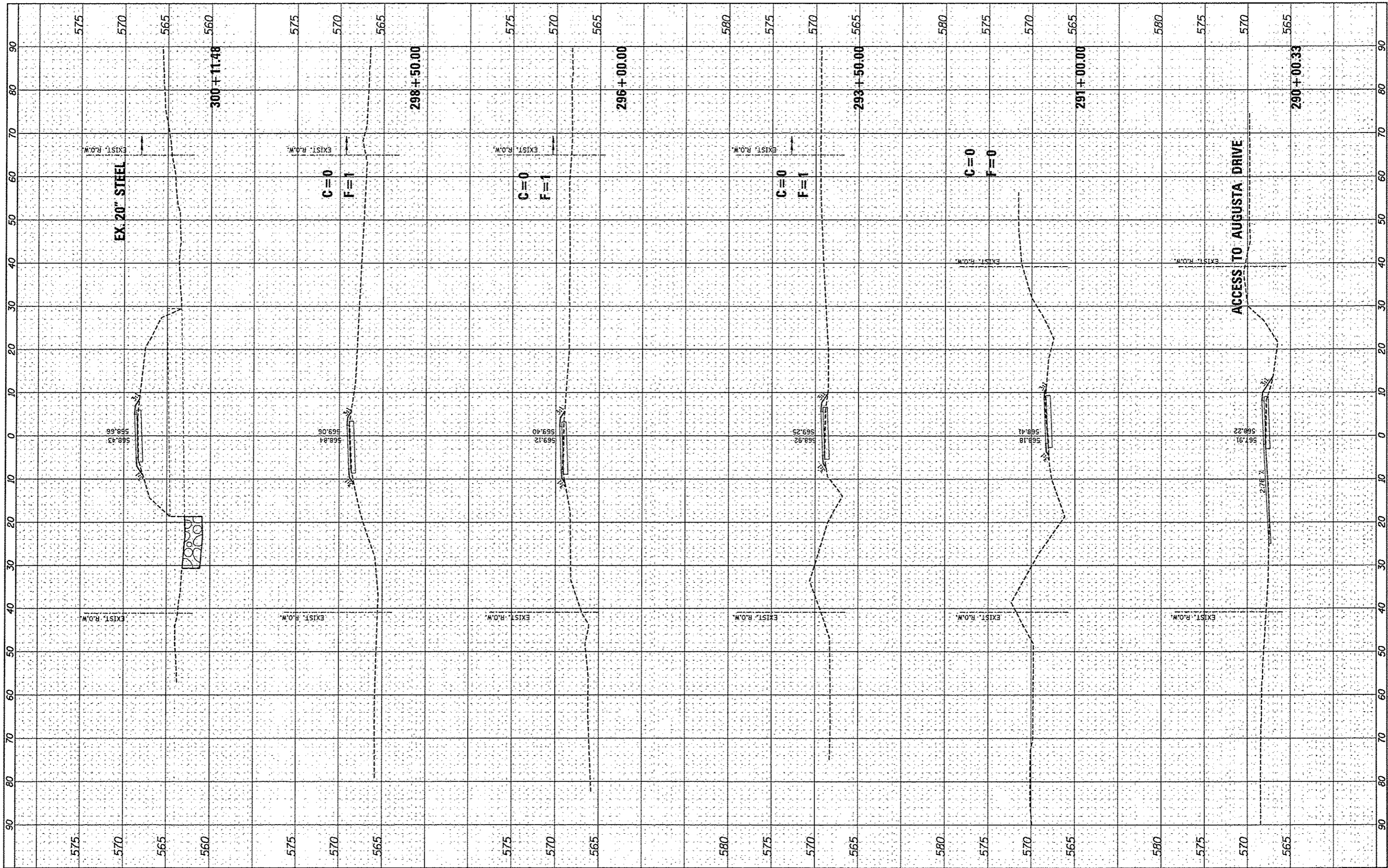
**MADISON COUNTY TRANSIT DISTRICT
HERITAGE BIKEWAY**

**HERITAGE BIKEWAY
CROSS SECTIONS**
SCALE: 1"=10'
SHEET NO. 23 OF 46 SHEETS
STA. 283+00.55 TO STA. 288+50.00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	06-00016-00-BT	MADISON	310	280
			CONTRACT NO. 97433	
ILLINOIS FED. AID PROJECT				

FINAL SURVEY	DATE
NOTED	BY
NO. 1	
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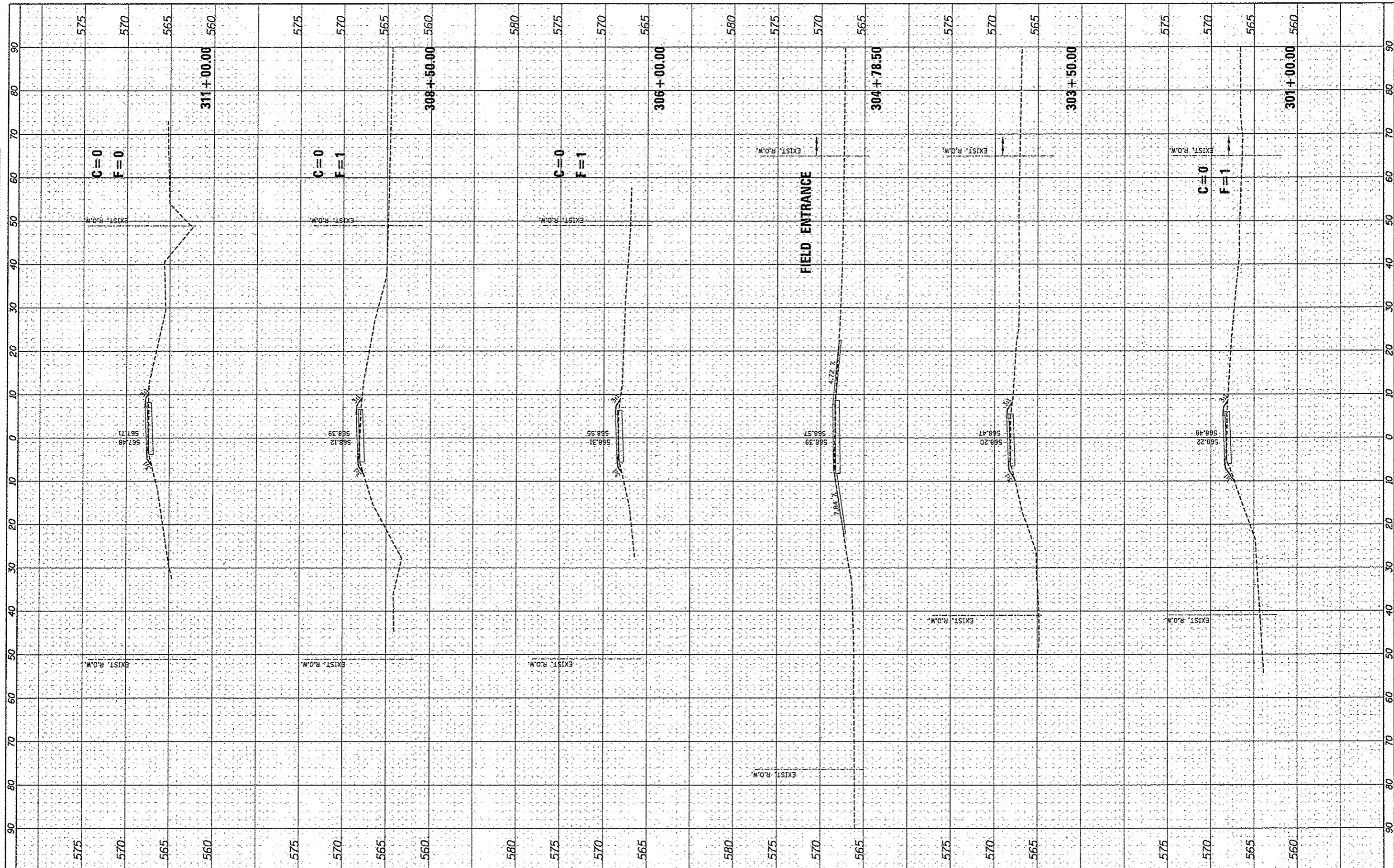
ORIGINAL SURVEY	DATE
NOTED	BY
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NO. 98	
NO. 99	
NO. 100	



FILE NAME	USER NAME = jeramy	DESIGNED - SAS	REVISED -	MADISON COUNTY TRANSIT DISTRICT HERITAGE BIKEWAY	HERITAGE BIKEWAY CROSS SECTIONS		F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
#FILE#		DRAWN - JQH	REVISED -		SCALE: 1"=10'	SHEET NO. 24 OF 46 SHEETS	STA. 290+00.33 TO STA. 300+11.48	06-00016-00-BT	MADISON	310	281
		CHECKED - WJB	REVISED -								
		DATE - 11/30/12	REVISED -								
ILLINOIS FED. AID PROJECT											

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

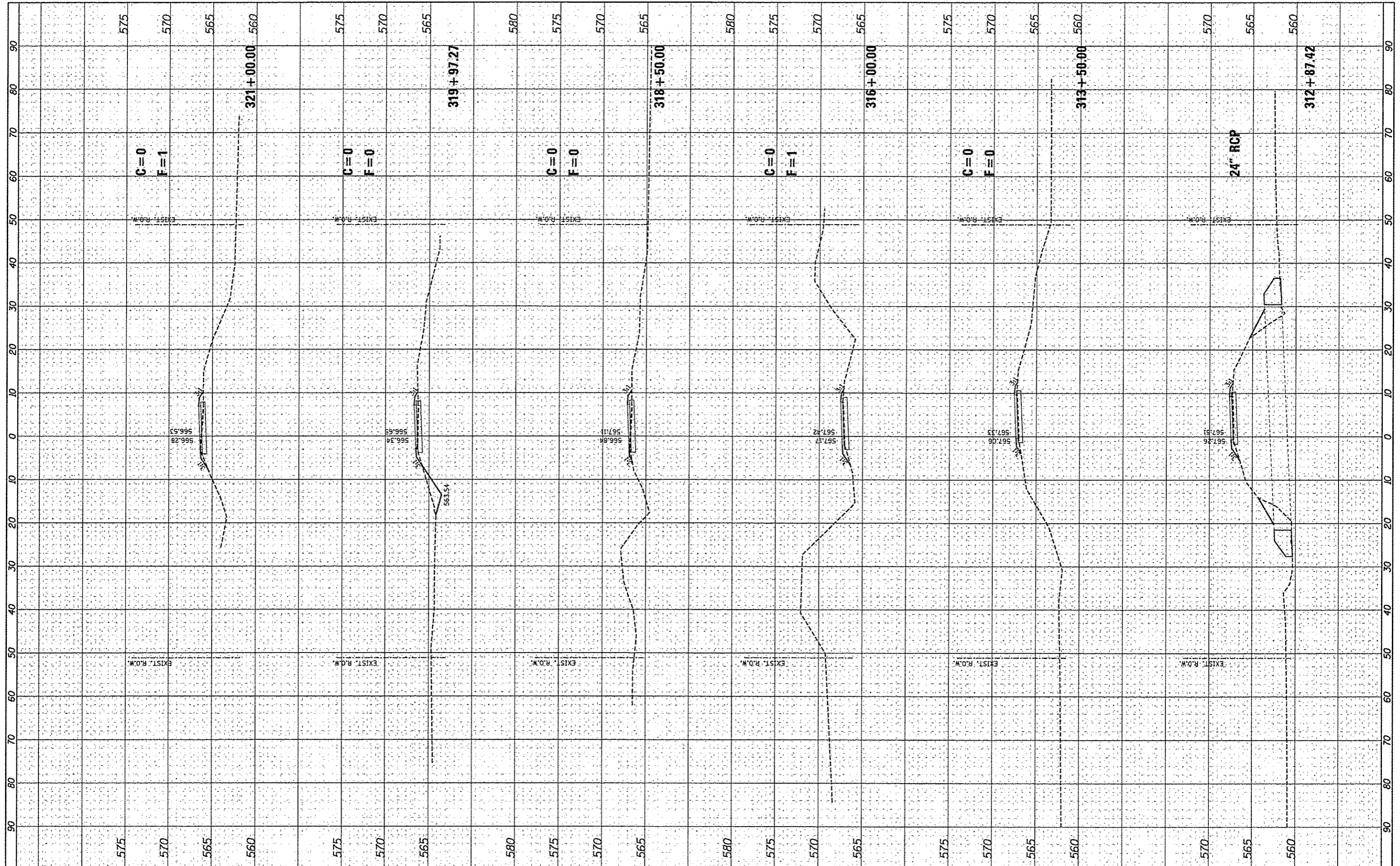
ORIGINAL SURVEY	BY	DATE
SURVEY		
PLOTTED		
TEMPLATE		
NOTE BOOK		
AREAS CHECKED		
NO.		



FILE NAME *	USER NAME * Jeremy	DESIGNED - SAS	REVISED -	MADISON COUNTY TRANSIT DISTRICT HERITAGE BIKEWAY	HERITAGE BIKEWAY CROSS SECTIONS			F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
#FILE#		DRAWN - JDH	REVISED -		SCALE: 1"=10'			06-00016-00-BT	MADISON	310	282	
		CHECKED - WJB	REVISED -		SHEET NO. 25 OF 46 SHEETS							
		DATE - 11/30/12	REVISED -		STA. 301+00.00 TO STA. 311+00.00							
					CONTRACT NO. 97433			ILLINOIS FED. AID PROJECT				

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

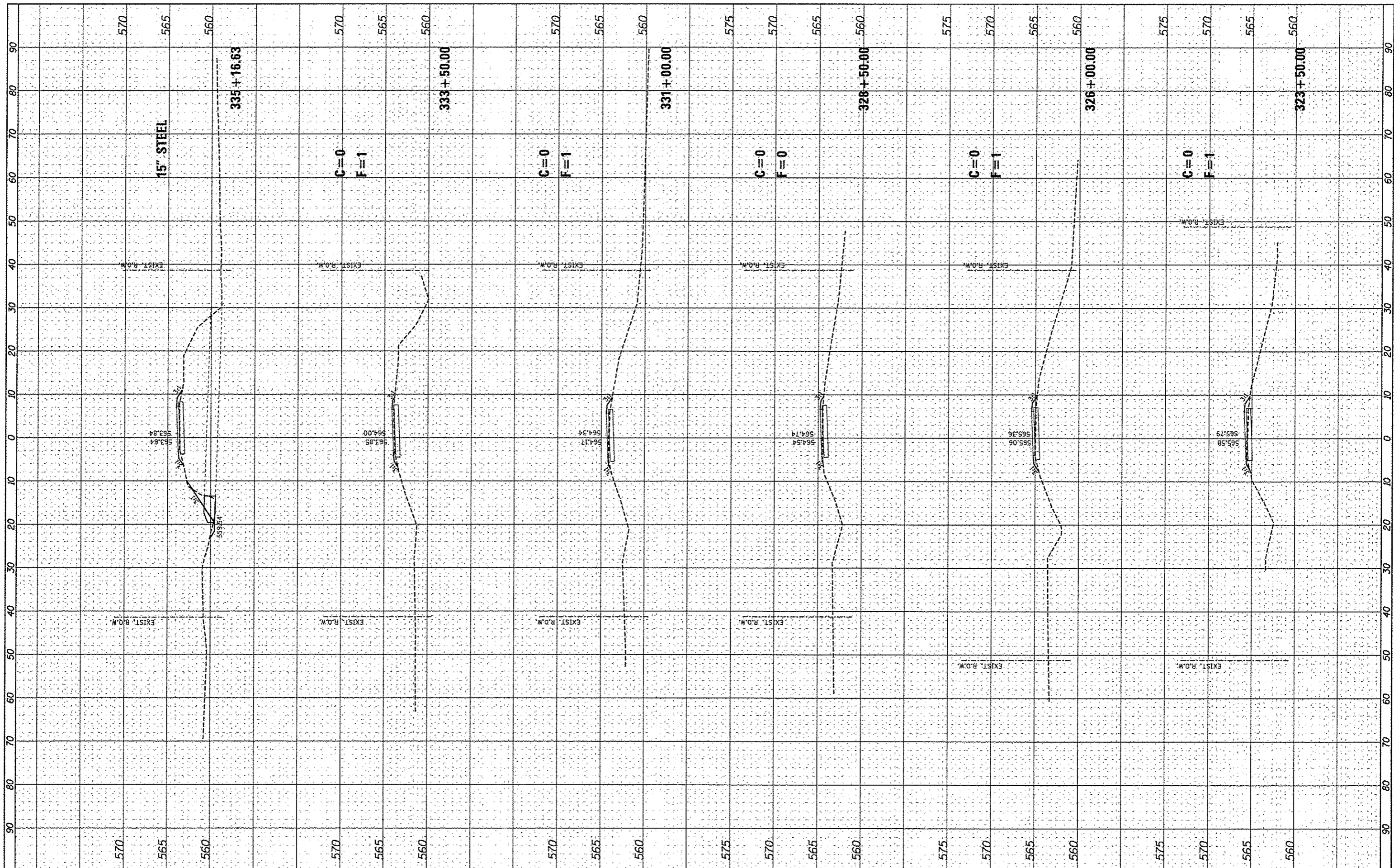
ORIGINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
NO.	TEMPLATE		
	AREAS CHECKED		



FILE NAME *	USER NAME * Jeremy	DESIGNED - SAS	REVISED -	MADISON COUNTY TRANSIT DISTRICT HERITAGE BIKEWAY	HERITAGE BIKEWAY CROSS SECTIONS	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
#FILE#		DRAWN - JQH	REVISED -			06-00016-00-BT	MADISON	310	283	
PLOT SCALE * 1/4"=10'		CHECKED - WJB	REVISED -			CONTRACT NO. 97433				
PLOT DATE * 12/19/2012		DATE - 11/30/12	REVISED -			ILLINOIS FED. AID PROJECT				
					SCALE: 1"=10'	SHEET NO. 28 OF 46 SHEETS		STA. 312+87.42 TO STA. 321+00.00		

FINISH	SURVEYED	BY	DATE
SHEET	PLOTTED		
NOTE BOOK	TEMPLATE		
NO.	AREAS CHECKED		

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



FILE NAME *	USER NAME * Jeremy	DESIGNED - SAS	REVISED -
#FILE#		DRAWN - JDH	REVISED -
	PLOT SCALE = *SCALE*	CHECKED - WJB	REVISED -
	PLOT DATE = 12/19/2012	DATE - 11/30/12	REVISED -

**MADISON COUNTY TRANSIT DISTRICT
HERITAGE BIKEWAY**

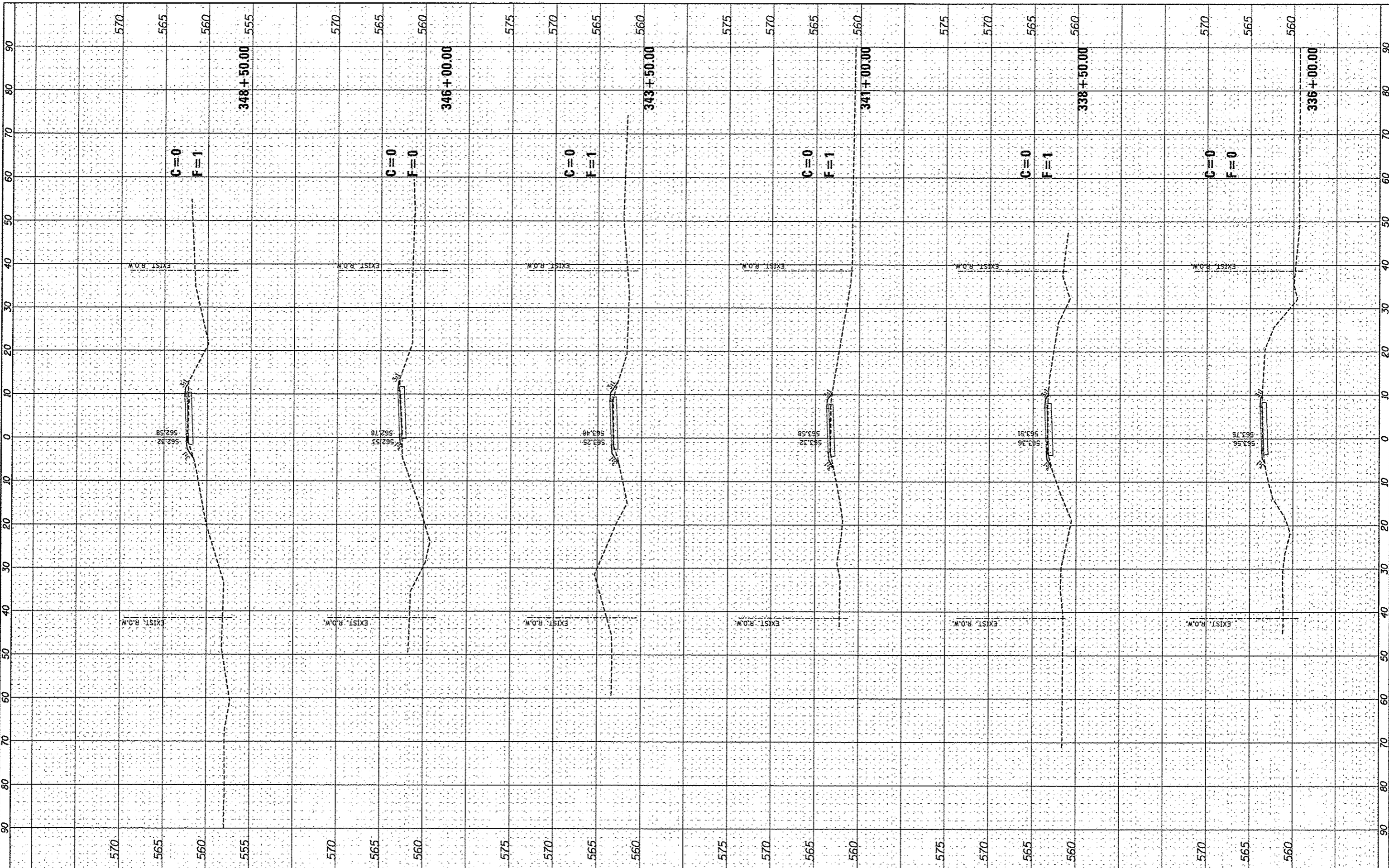
**HERITAGE BIKEWAY
CROSS SECTIONS**

SCALE: 1"=10' SHEET NO. 27 OF 46 SHEETS STA. 323+50.00 TO STA. 335+16.63

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	06-00016-00-BT	MADISON	310	284
			CONTRACT NO. 97433	
<small>ILLINOIS FED. AID PROJECT</small>				

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

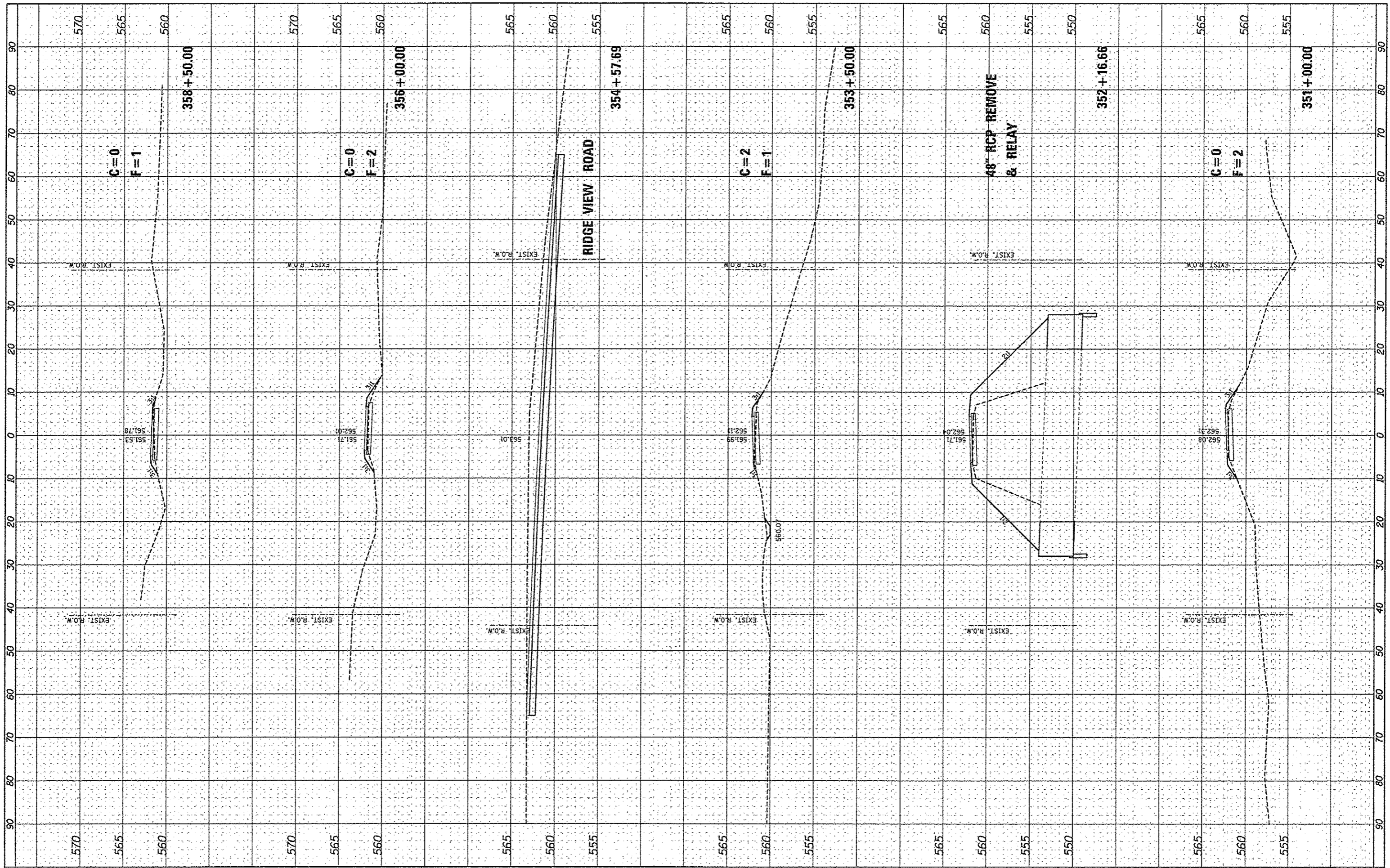
ORIGINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
NO.	TEMPLATE		
	AREAS CHECKED		



FILE NAME *	USER NAME * Jeremy	DESIGNED - SAS	REVISED -	MADISON COUNTY TRANSIT DISTRICT HERITAGE BIKEWAY	HERITAGE BIKEWAY CROSS SECTIONS			F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
#FILE#		DRAWN - JQH	REVISED -		SCALE: 1"=10'			06-00016-00-BT	MADISON	310	285	
		CHECKED - WJB	REVISED -		SHEET NO. 28 OF 46 SHEETS					CONTRACT NO. 97433		
		DATE - 11/30/12	REVISED -		STA. 336+00.00 TO STA. 348+50.00					ILLINOIS FED. AID PROJECT		

FINISHED SURVEY	BY	DATE
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NOTE BOOK		
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ORIGINAL SURVEY	BY	DATE
TEMP. PLATE		
AREAS CHECKED		
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FILE NAME *
#FILE#

USER NAME * Jeremy
DESIGNED - SAS
DRAWN - JDH
CHECKED - WJB
DATE - 11/30/12

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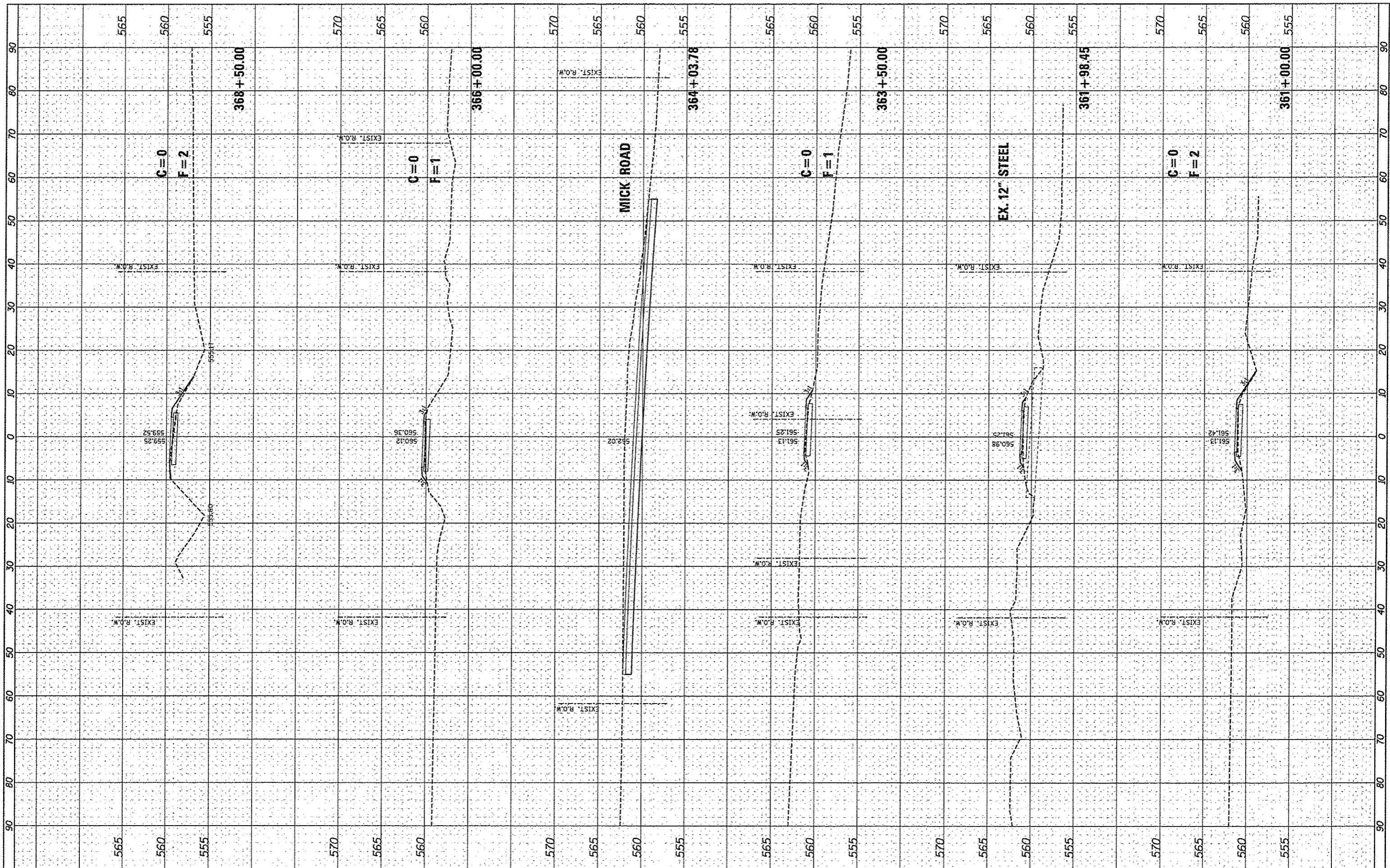
**MADISON COUNTY TRANSIT DISTRICT
HERITAGE BIKEWAY**

**HERITAGE BIKEWAY
CROSS SECTIONS**
SCALE: 1"=10'
SHEET NO. 29 OF 46 SHEETS
STA. 351+00.00 TO STA. 358+50.00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	06-00016-00-BT	MADISON	310	286
				CONTRACT NO. 97433
ILLINOIS FED. AID PROJECT				

DATE	
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FINAL SURVEY	
NOTE BOOK	
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EXISTS TO	
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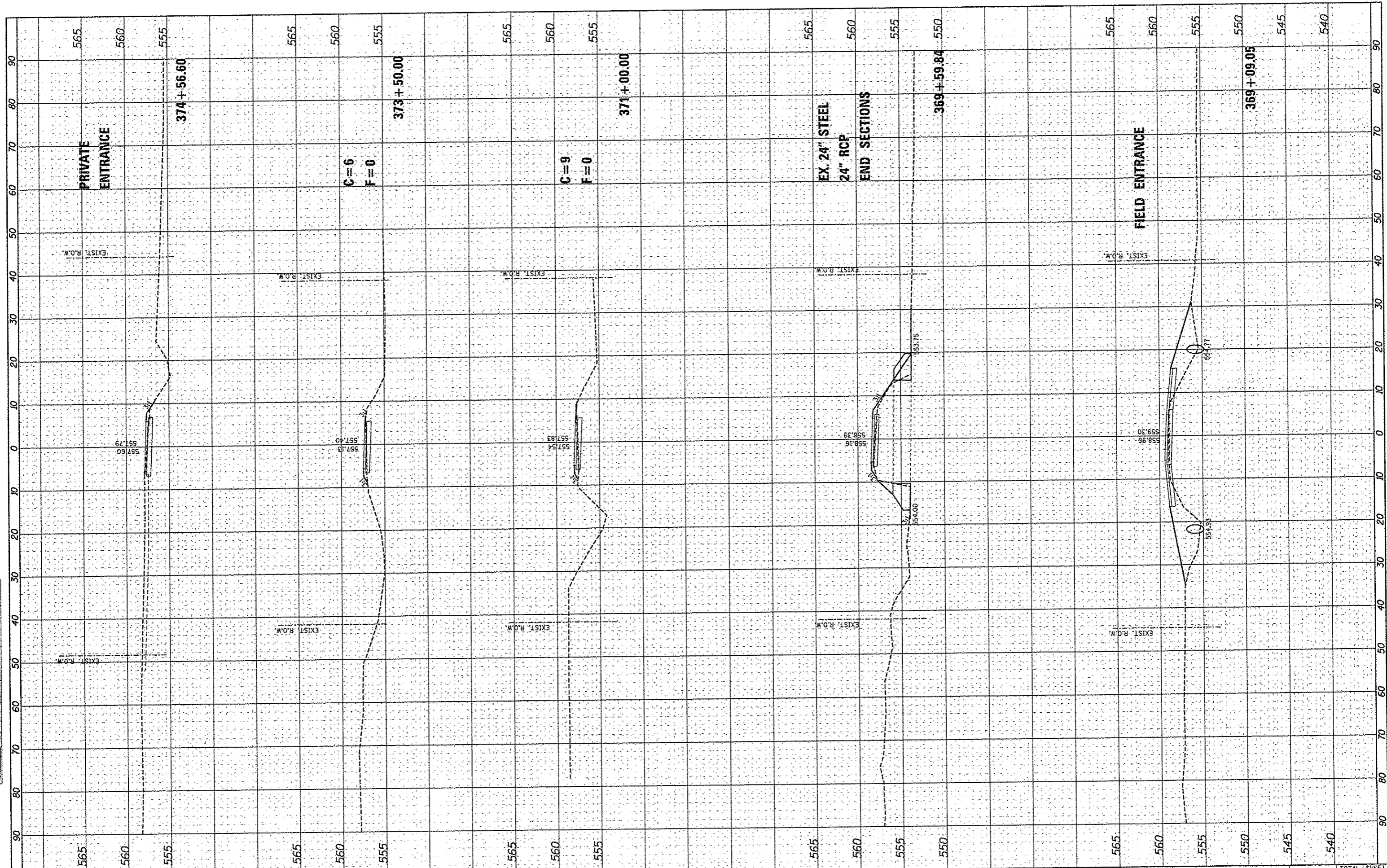
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BY	
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NOTE BOOK	
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EXISTS TO	
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FILE NAME *	USER NAME * Jeremy	DESIGNED - SAS	REVISED -	MADISON COUNTY TRANSIT DISTRICT HERITAGE BIKEWAY	HERITAGE BIKEWAY CROSS SECTIONS			F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
#FILCL*		DRAWN - JQH	REVISED -		SCALE: 1"=10' SHEET NO. 30 OF 46 SHEETS STA. 361+00.00 TO STA. 368+50.00			06-00016-00-BT	MADISON	310	287	
		CHECKED - WJB	REVISED -		ILLINOIS FED. AID PROJECT			CONTRACT NO. 97433				
		DATE - 11/30/12	REVISED -									

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

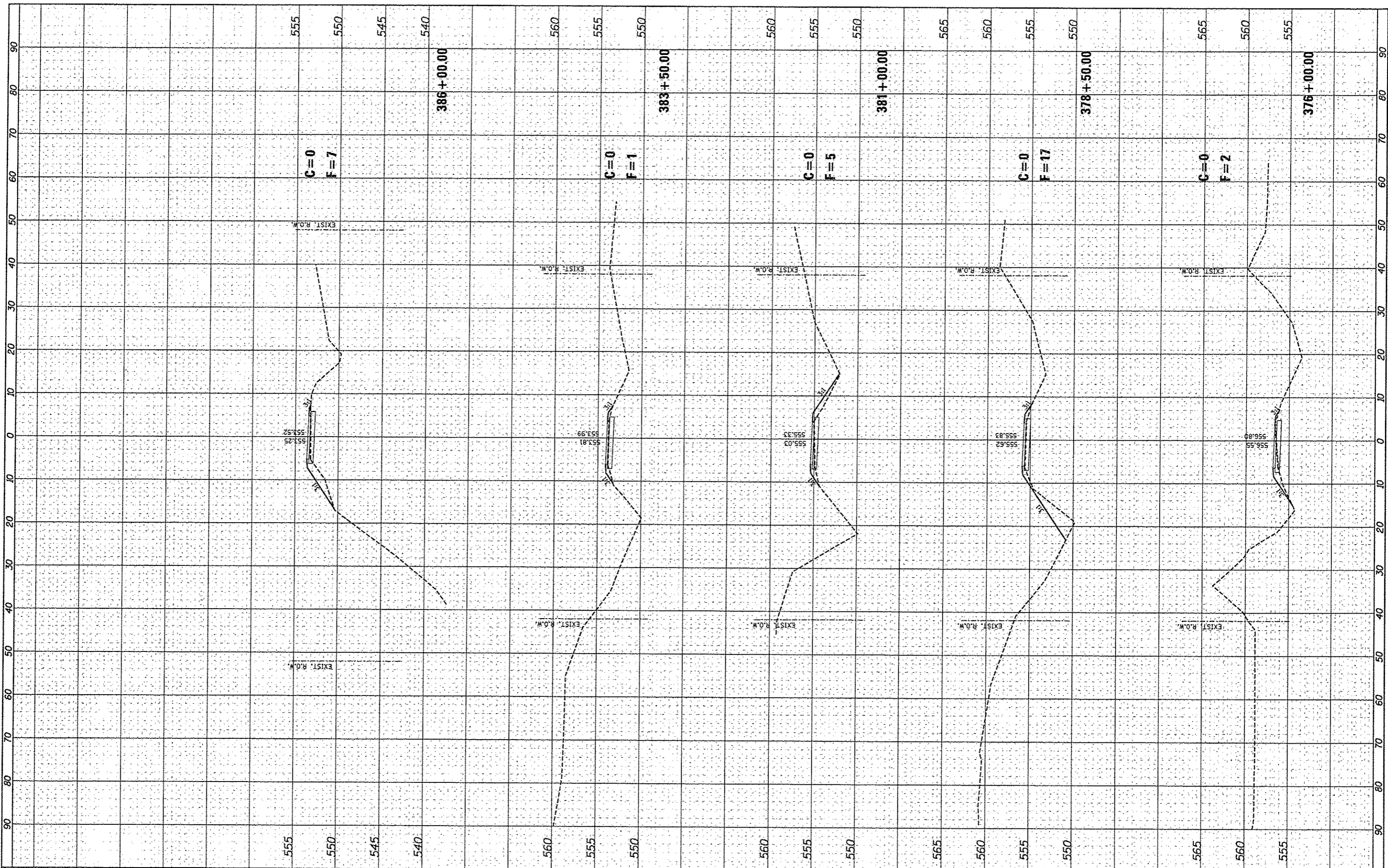
ORIGINAL SURVEY	SURVEYED	BY	DATE
SURVEY	PLOTTED		
NOTE BOOK	TEMPLATE		
NO.	AREAS CHECKED		



FILE NAME *	USER NAME * jeromy	DESIGNED - SAS	REVISED -	MADISON COUNTY TRANSIT DISTRICT HERITAGE BIKEWAY	HERITAGE BIKEWAY CROSS SECTIONS			F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
#FILE#		DRAWN - JOH	REVISED -		SCALE: 1"=10'	SHEET NO. 31 OF 46 SHEETS	STA. 369+09.05 TO STA. 374+56.60	06-00016-00-BT	MADISON	310	288	
		CHECKED - WJB	REVISED -					CONTRACT NO. 97433		ILLINOIS FED. AID PROJECT		
		DATE - 11/30/12	REVISED -									

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

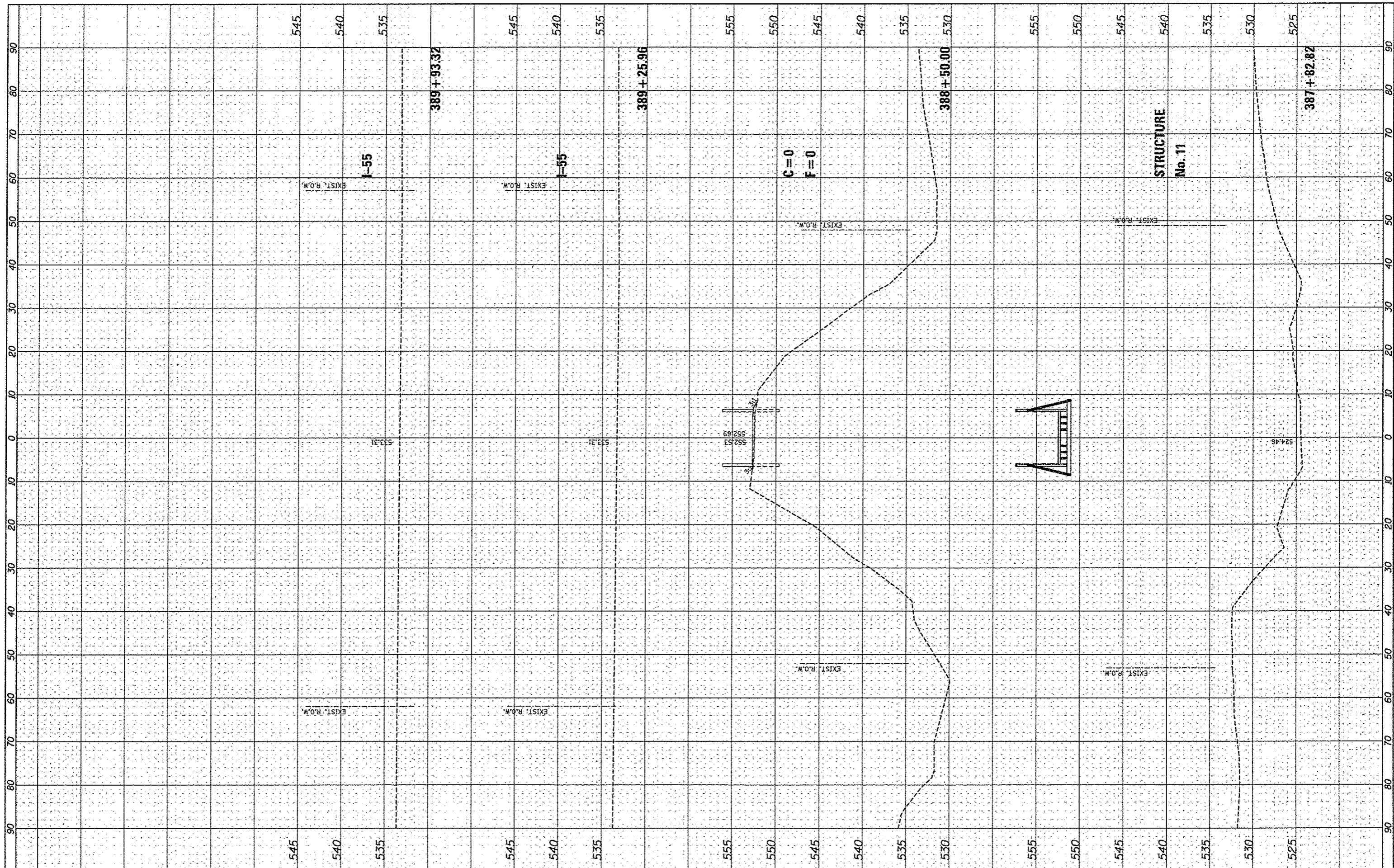
DATE	
BY	
ORIGINAL SURVEY	SURVEYED
NOTE BOOK	PLOTTED
NO.	TEMPLATE
	AREAS CHECKED



FILE NAME *	USER NAME * Jeremy	DESIGNED - SAS	REVISED -	MADISON COUNTY TRANSIT DISTRICT HERITAGE BIKEWAY	HERITAGE BIKEWAY CROSS SECTIONS	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
#FILECL*		DRAWN - JDH	REVISED -			06-00016-00-BT	MADISON	310	289	
		CHECKED - WJB	REVISED -			CONTRACT NO. 97433				
		DATE - 11/30/12	REVISED -			ILLINOIS FED. AID PROJECT				
					SCALE: 1"=10'	SHEET NO. 32 OF 46 SHEETS		STA. 376+00.00 TO STA. 386+00.00		

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

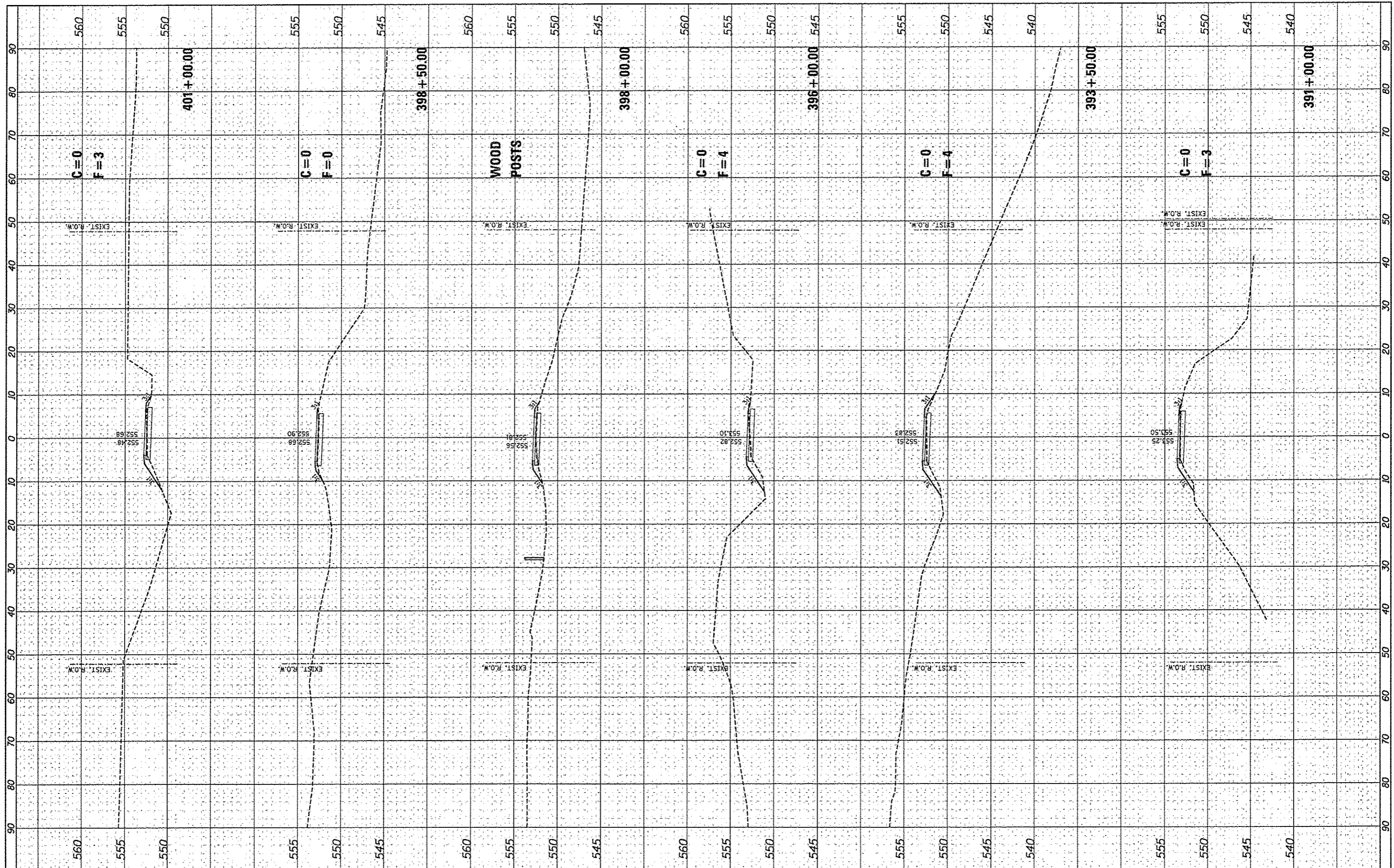
ORIGINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
NO.	TEMPLATE		
	AREAS		
	CHECKED		



FILE NAME *	USER NAME = Jeremy	DESIGNED - SAS	REVISED -	MADISON COUNTY TRANSIT DISTRICT HERITAGE BIKEWAY	HERITAGE BIKEWAY CROSS SECTIONS			F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
#FILE#		DRAWN - JDH	REVISED -		SCALE: 1"=10'	SHEET NO. 33 OF 46 SHEETS	STA. 387+82.82 TO STA. 389+93.32	06-00016-00-BT	MADISON	310	290	
		CHECKED - WJB	REVISED -							CONTRACT NO. 97433		
		DATE - 11/30/12	REVISED -					ILLINOIS FED. AID PROJECT				

FINAL SURVEY	DATE
SURVEY	
NOTE BOOK	
TEMPLATE	
AREAS CHECKED	
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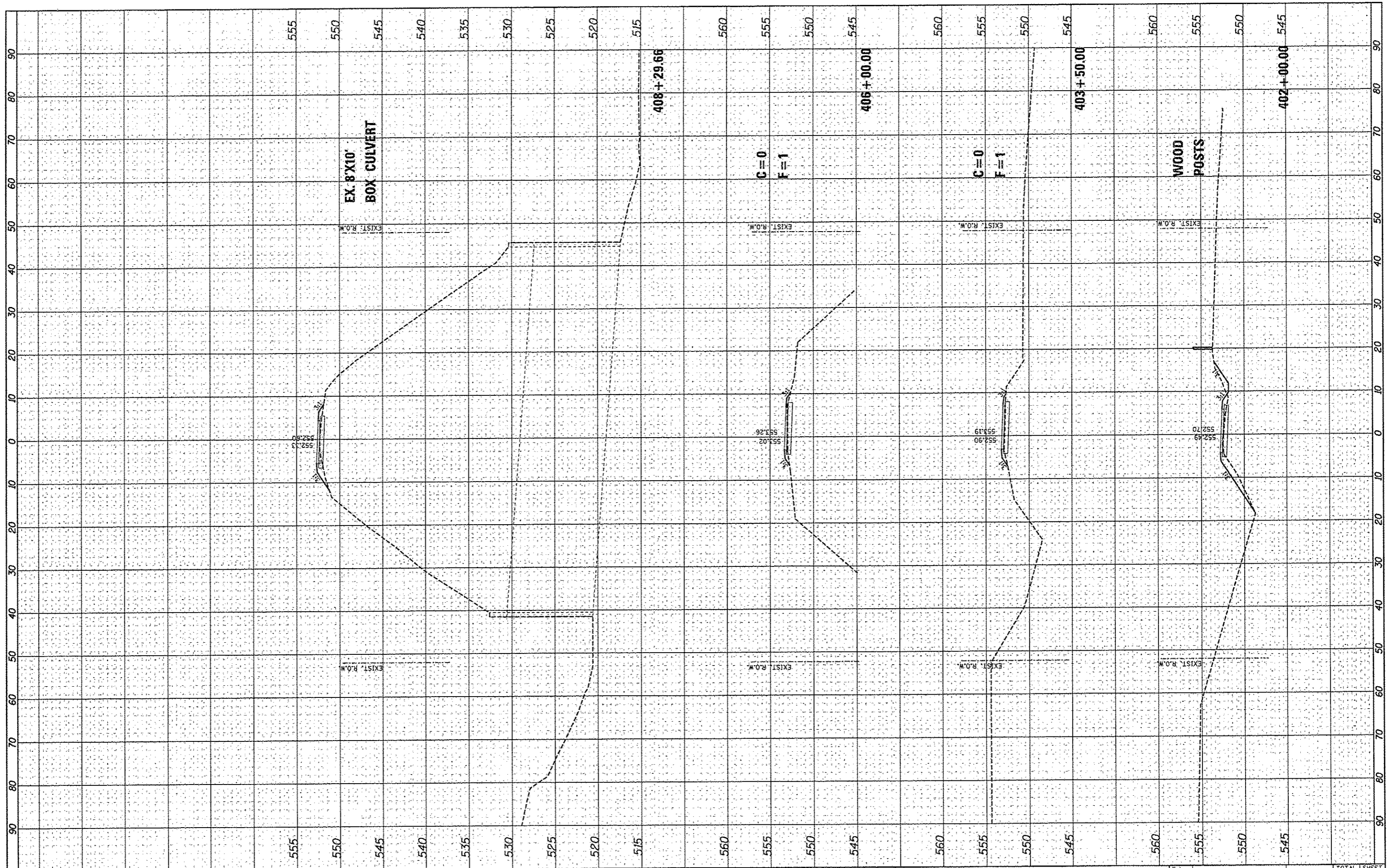
ORIGINAL SURVEY	DATE
SURVEY	
NOTE BOOK	
TEMPLATE	
AREAS CHECKED	
NO.	



FILE NAME *	USER NAME * Jeremy	DESIGNED - SAS	REVISED -	MADISON COUNTY TRANSIT DISTRICT HERITAGE BIKEWAY	HERITAGE BIKEWAY CROSS SECTIONS			F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
#FILE#		DRAWN - JDH	REVISED -		SCALE: 1"=10'	SHEET NO. 34 OF 46 SHEETS	STA. 391+00.00 TO STA. 401+00.00	06-00016-00-BT	MADISON	310	291	
		CHECKED - WJB	REVISED -					CONTRACT NO. 97433				
		DATE - 11/30/12	REVISED -		ILLINOIS FED. AID PROJECT							

DATE	
BY	
FINAL SURVEY	
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PLOTTED	
NOTE BOOK	
AREAS CHECKED	
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DATE	
BY	
ORIGINAL SURVEY	
SURVEY	
PLOTTED	
NOTE BOOK	
AREAS CHECKED	
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FILE NAME *
#FILE#

USER NAME * Jeremy
PLLOT SCALE * #SCALE#
PLLOT DATE * 12/19/2012

DESIGNED - SAS
DRAWN - JOH
CHECKED - WJB
DATE - 11/30/12

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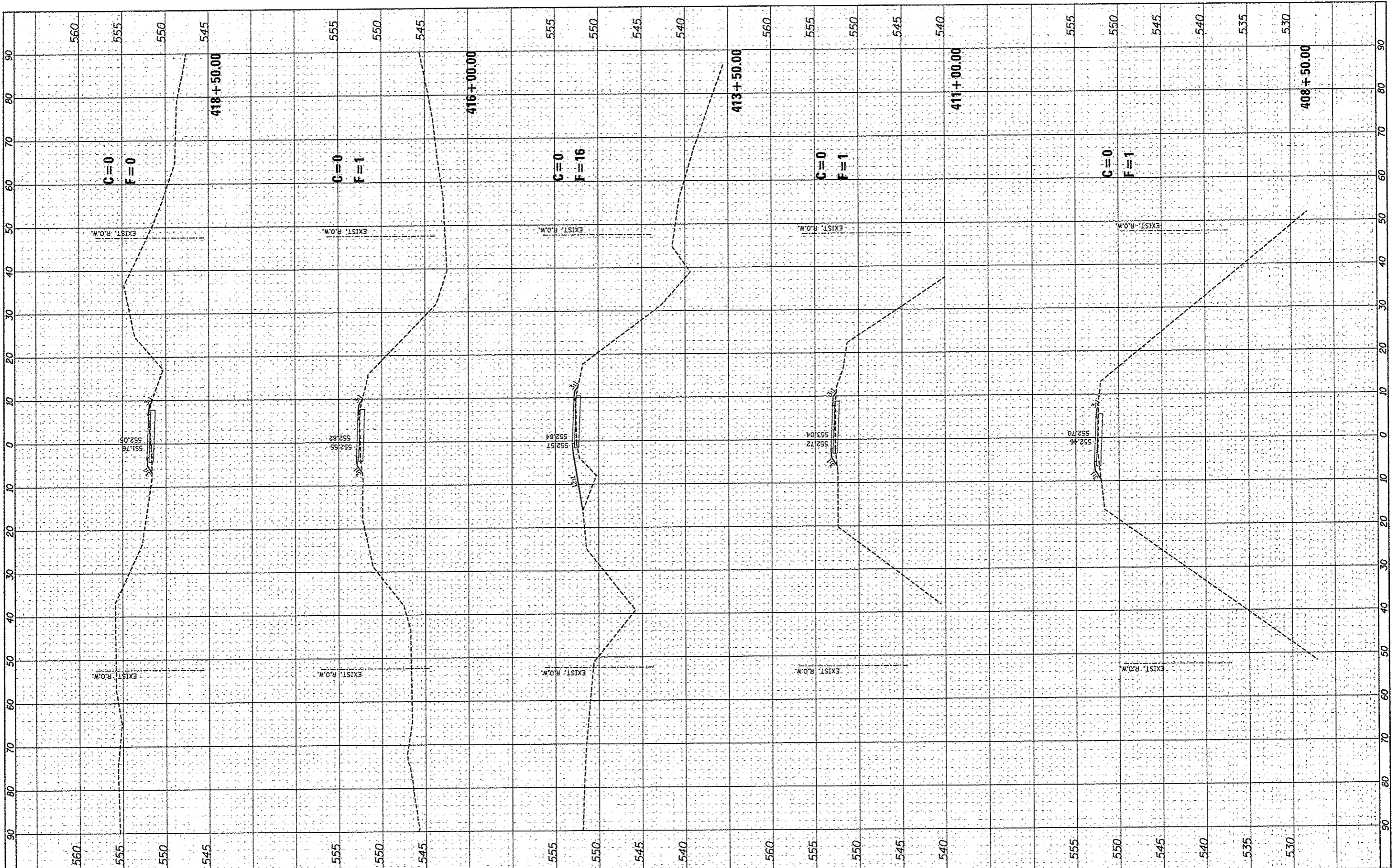
**MADISON COUNTY TRANSIT DISTRICT
HERITAGE BIKEWAY**

**HERITAGE BIKEWAY
CROSS SECTIONS**
SCALE: 1"=10'
SHEET NO. 35 OF 46 SHEETS
STA. 402+00.00 TO STA. 408+29.66

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	06-00016-00-BT	MADISON	310	292
CONTRACT NO. 97433			ILLINOIS FED. AID PROJECT	

FINN	DATE
SURVEYED	
PLOTTED	
NOTE BOOK	
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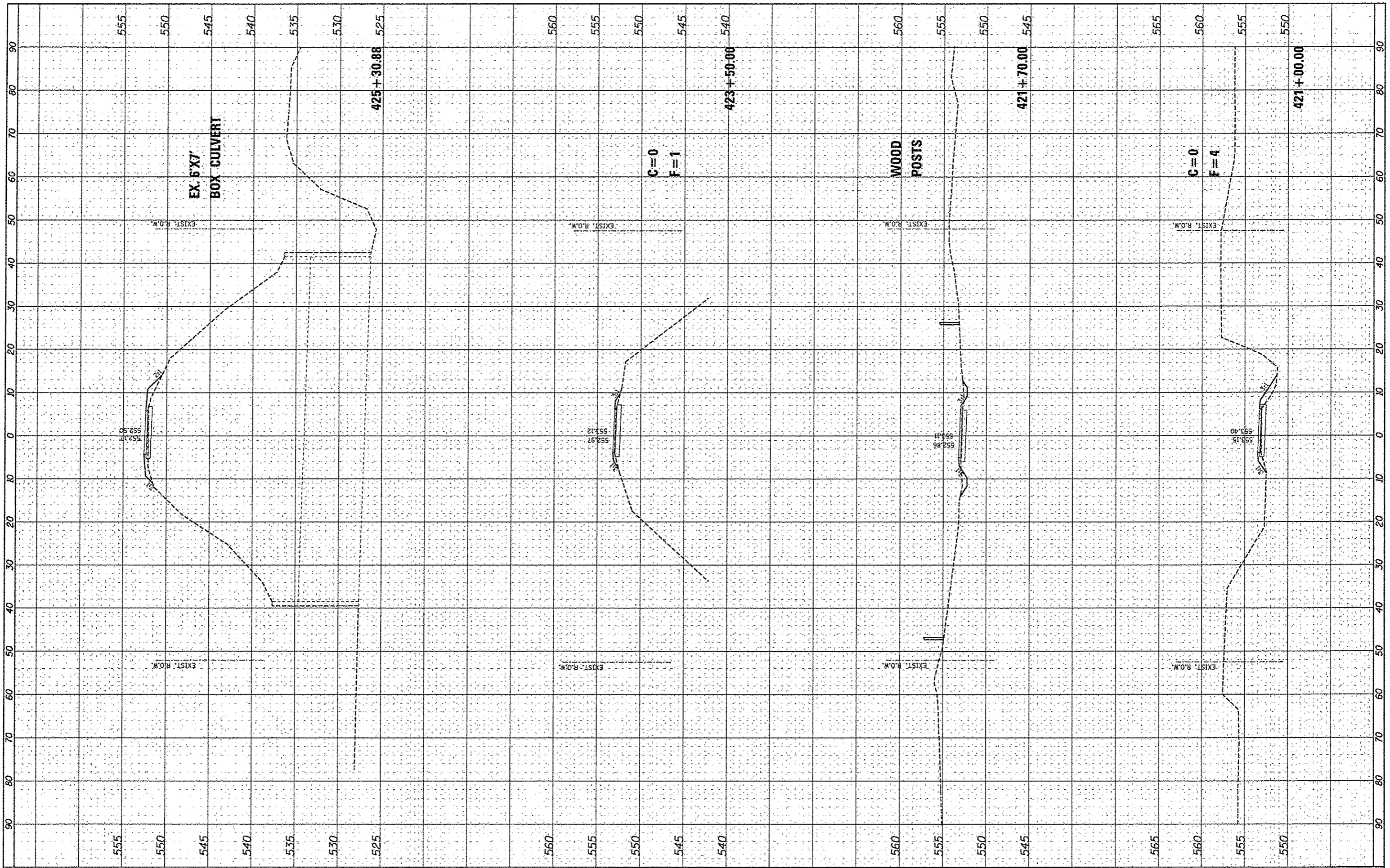
ORIGINAL	DATE
SURVEY	
PLOTTED	
NOTE BOOK	
NO.	



FILE NAME *	USER NAME * jeremy	DESIGNED - SAS	REVISED -	MADISON COUNTY TRANSIT DISTRICT HERITAGE BIKEWAY	HERITAGE BIKEWAY CROSS SECTIONS			F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
#FILE#		DRAWN - JQH	REVISED -		SCALE: 1"=10'			06-00016-00-BT	MADISON	310	293	
		CHECKED - WJB	REVISED -		SHEET NO. 36 OF 46 SHEETS			STA. 408+50.00 TO STA. 418+50.00		CONTRACT NO. 97433		
		DATE - 11/30/12	REVISED -		ILLINOIS FED. AID PROJECT							

BY	DATE

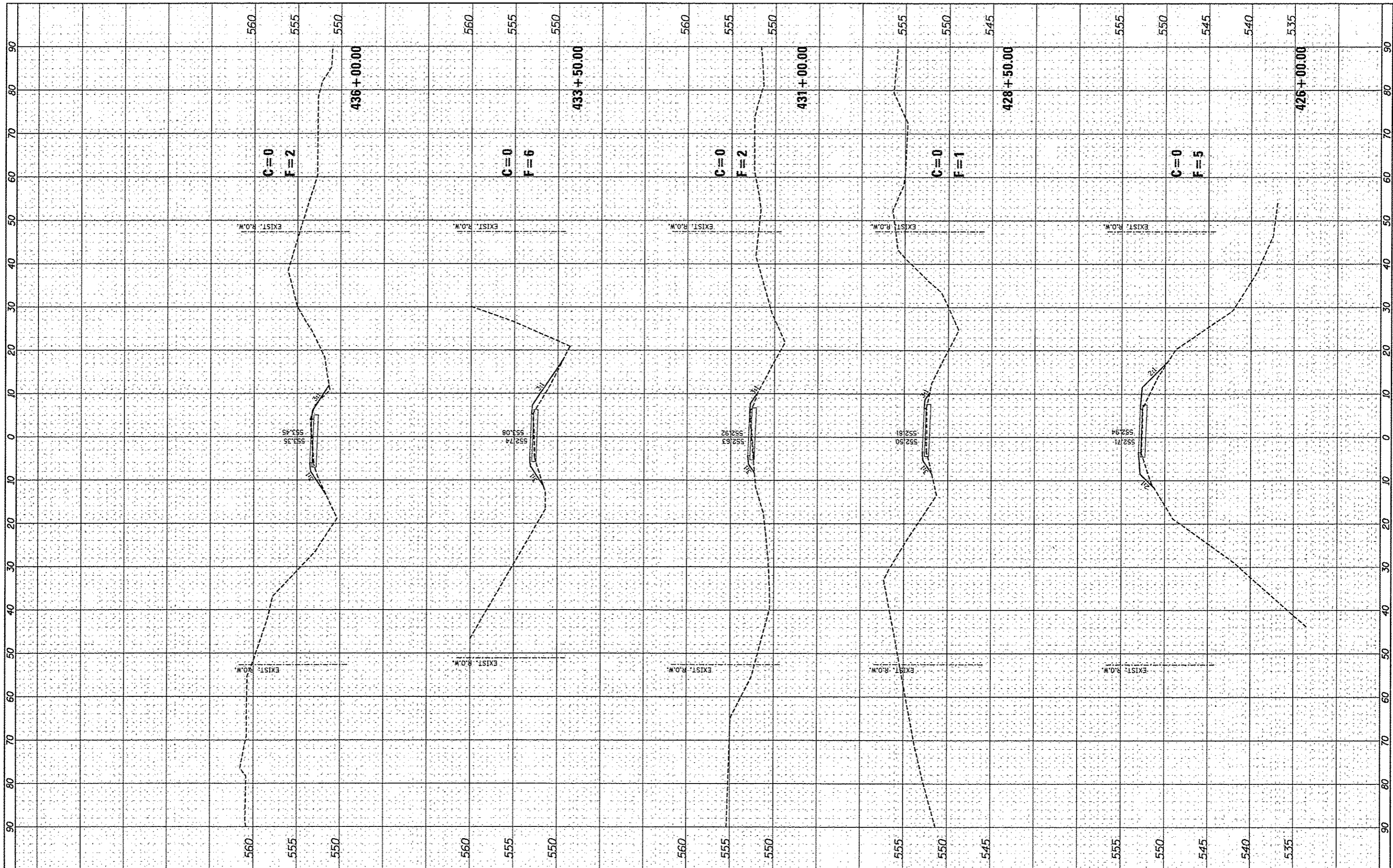
BY	DATE



FILE NAME *	USER NAME * Jeremy	DESIGNED - SAS	REVISED -	MADISON COUNTY TRANSIT DISTRICT HERITAGE BIKEWAY	HERITAGE BIKEWAY CROSS SECTIONS	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
#FILE#		DRAWN - JDH	REVISED -			06-00016-00-BT	MADISON	310	294	
PLOT SCALE * #SCALE*		CHECKED - WJB	REVISED -			CONTRACT NO. 97433				
PLOT DATE * 12/19/2012		DATE - 11/30/12	REVISED -			ILLINOIS FED. AID PROJECT				
				SCALE: 1"=10'		SHEET NO. 37 OF 46 SHEETS		STA. 421+00.00 TO STA. 425+30.88		

FINAL	DATE
SURVEY	
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NOTE BOOK	
TEMPLATE	
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ORIGINAL	DATE
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NOTE BOOK	
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AREAS CHECKED	
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FILE NAME *
#FILE#

USER NAME * Jeremy
PLOT SCALE * #SCALE#
PLOT DATE * 12/19/2012

DESIGNED - SAS
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CHECKED - WJB
DATE - 11/30/12

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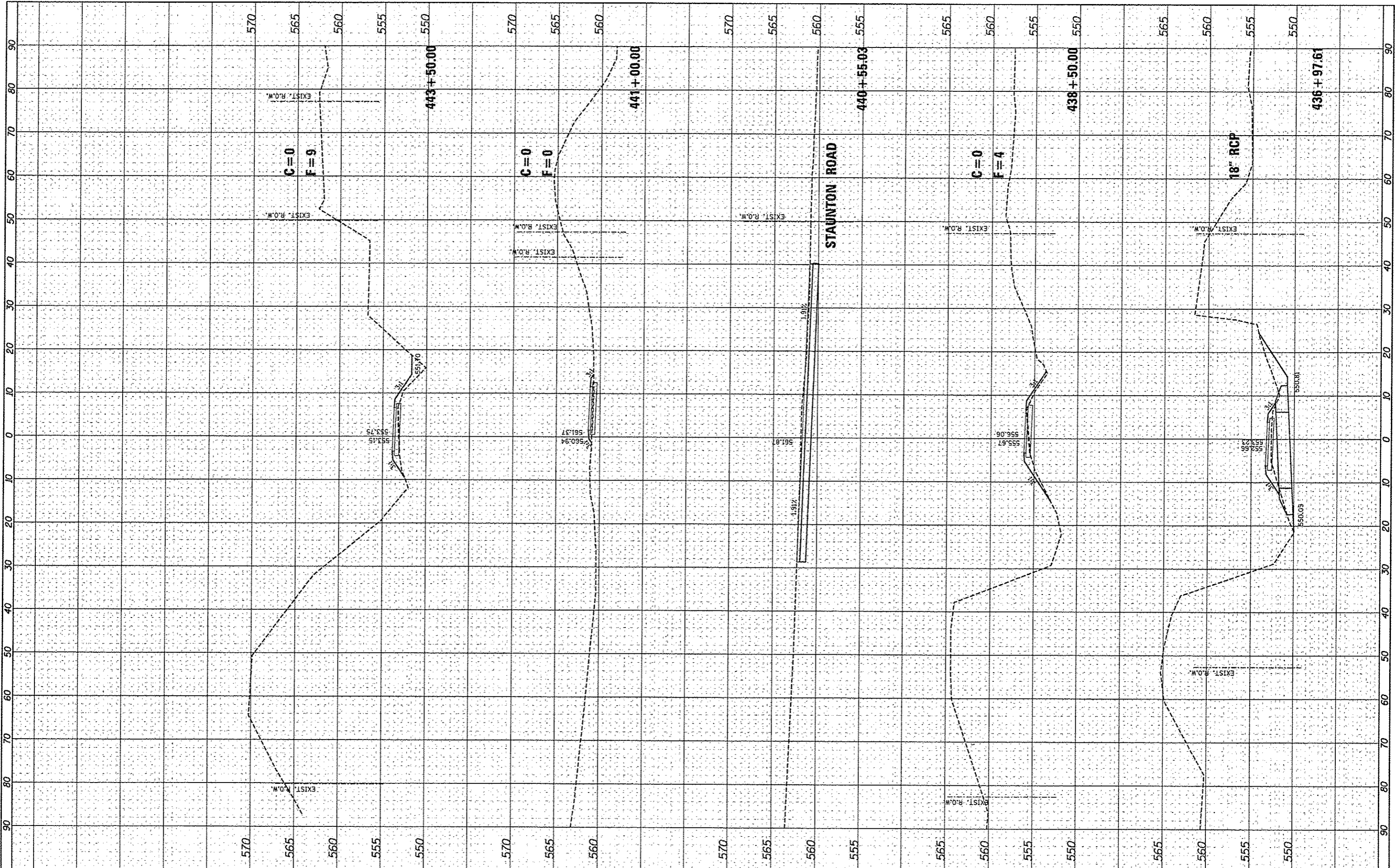
**MADISON COUNTY TRANSIT DISTRICT
HERITAGE BIKEWAY**

**HERITAGE BIKEWAY
CROSS SECTIONS**
SCALE: 1"=10'
SHEET NO. 38 OF 46 SHEETS
STA. 426+00.00 TO STA. 436+00.00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	06-00016-00-BT	MADISON	310	295
CONTRACT NO. 97433				
ILLINOIS FED. AID PROJECT				

BY	DATE

ORIGINAL SURVEY	SURVEYED
NOTE BOOK	PLOTTED
NO.	TEMPLATE
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	CHECKED



FILE NAME *
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USER NAME * Jeremy
DESIGNED - SAS
DRAWN - JDH
CHECKED - WJB
DATE - 11/30/12

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**MADISON COUNTY TRANSIT DISTRICT
HERITAGE BIKEWAY**

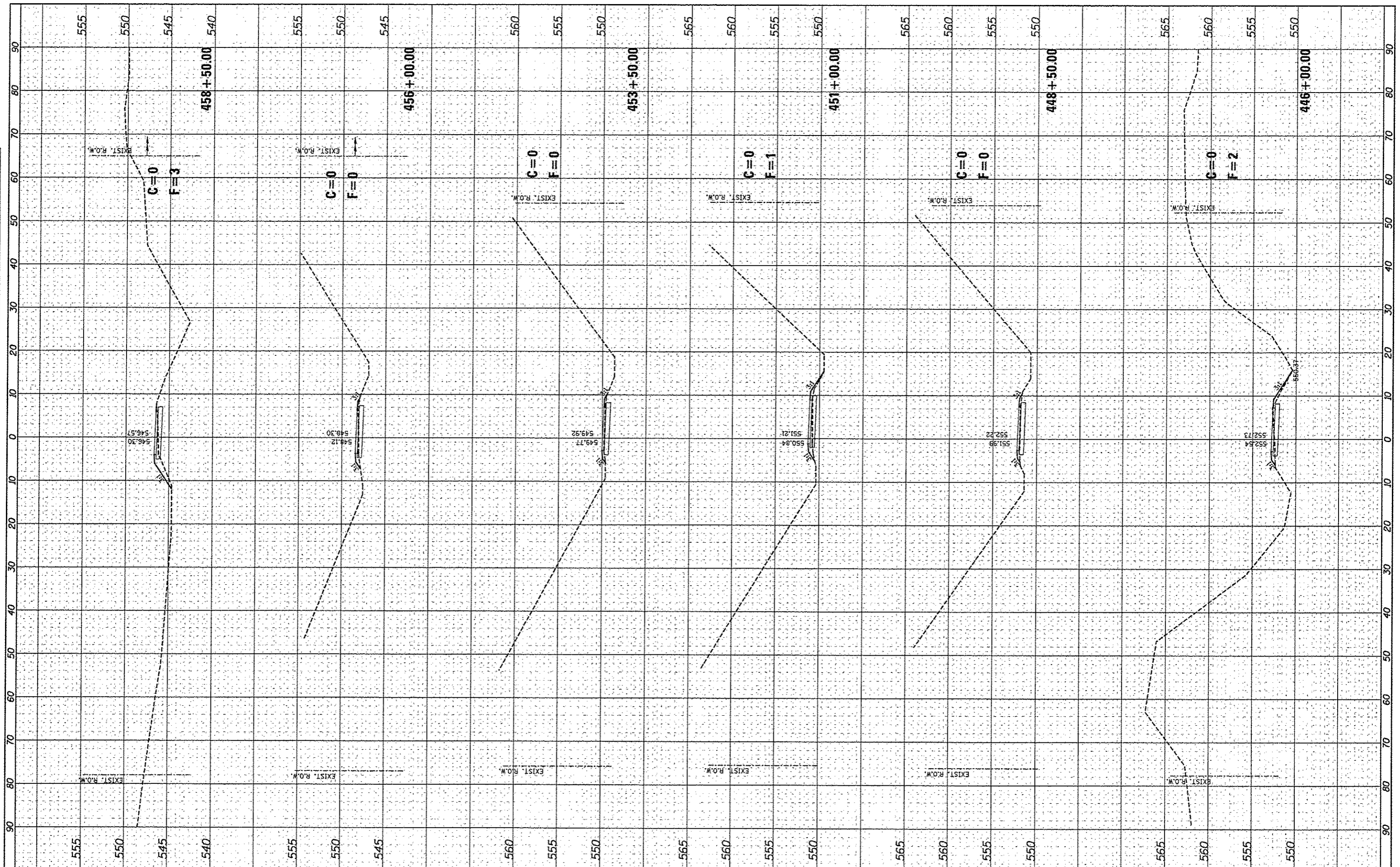
**HERITAGE BIKEWAY
CROSS SECTIONS**

SCALE: 1"=10'
SHEET NO. 39 OF 46 SHEETS
STA. 436+97.61 TO STA. 443+50.00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	06-00016-00-BT	MADISON	310	296
CONTRACT NO. 97433			ILLINOIS FED. AID PROJECT	

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

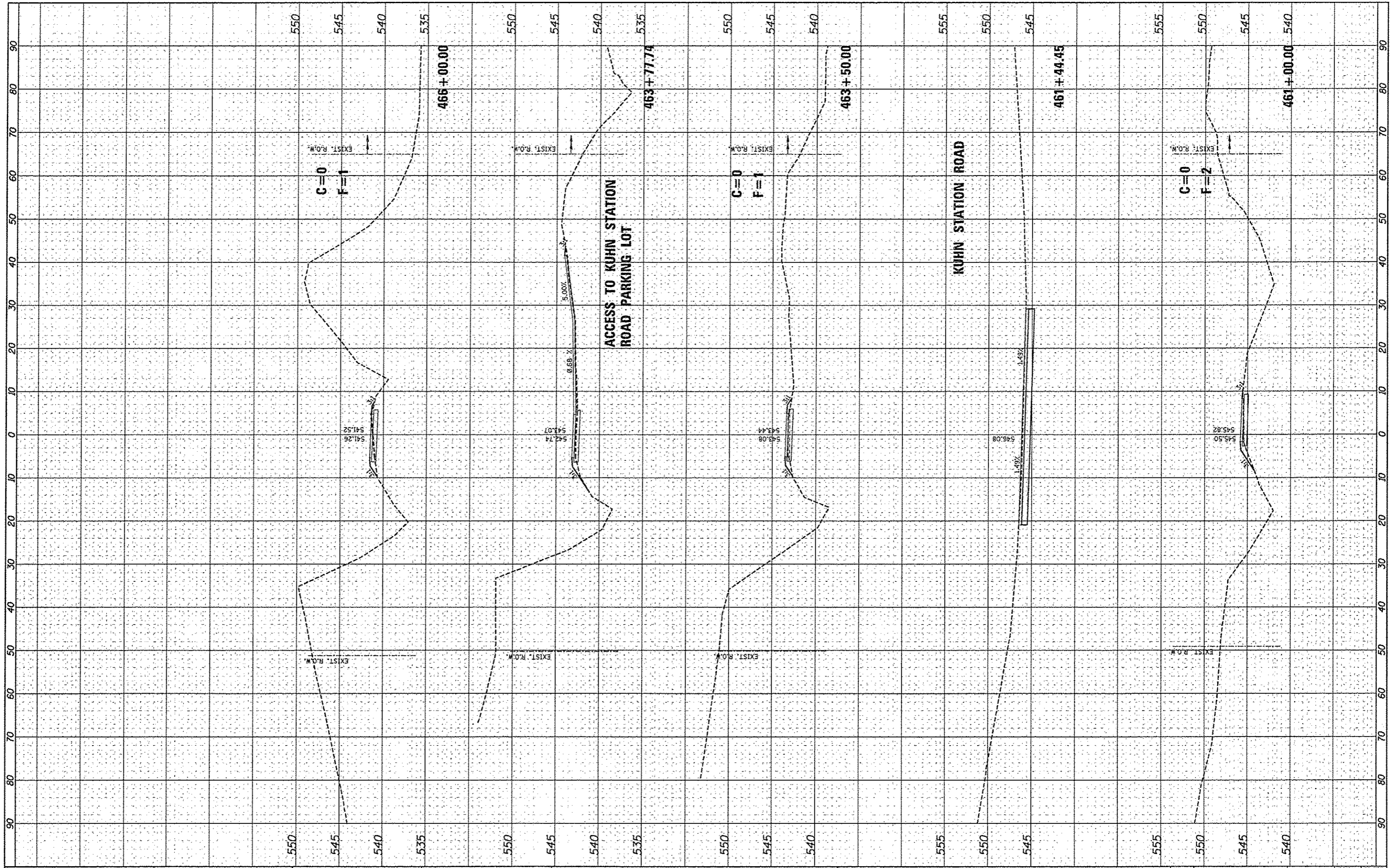
ORIGINAL SURVEY	BY	DATE
SURVEYED		
PLOTTED		
TEMPLATE		
NOTE BOOK		
AREAS CHECKED		
NO.		



FILE NAME *	USER NAME * Jeremy	DESIGNED - SAS	REVISED -	MADISON COUNTY TRANSIT DISTRICT HERITAGE BIKEWAY	HERITAGE BIKEWAY CROSS SECTIONS			F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
#FILE#		DRAWN - JDH	REVISED -		SCALE: 1"=10'			06-00015-00-BT	MADISON	310	297	
		CHECKED - WJB	REVISED -		SHEET NO. 40 OF 46 SHEETS					CONTRACT NO. 97433		
		DATE - 11/30/12	REVISED -		STA. 446+00.00 TO STA. 458+50.00					[ILLINOIS] FED. AID PROJECT		

FINAL SURVEY	BY	DATE
SURVEYED		
PLOTTED		
NOTE BOOK		
NO.		

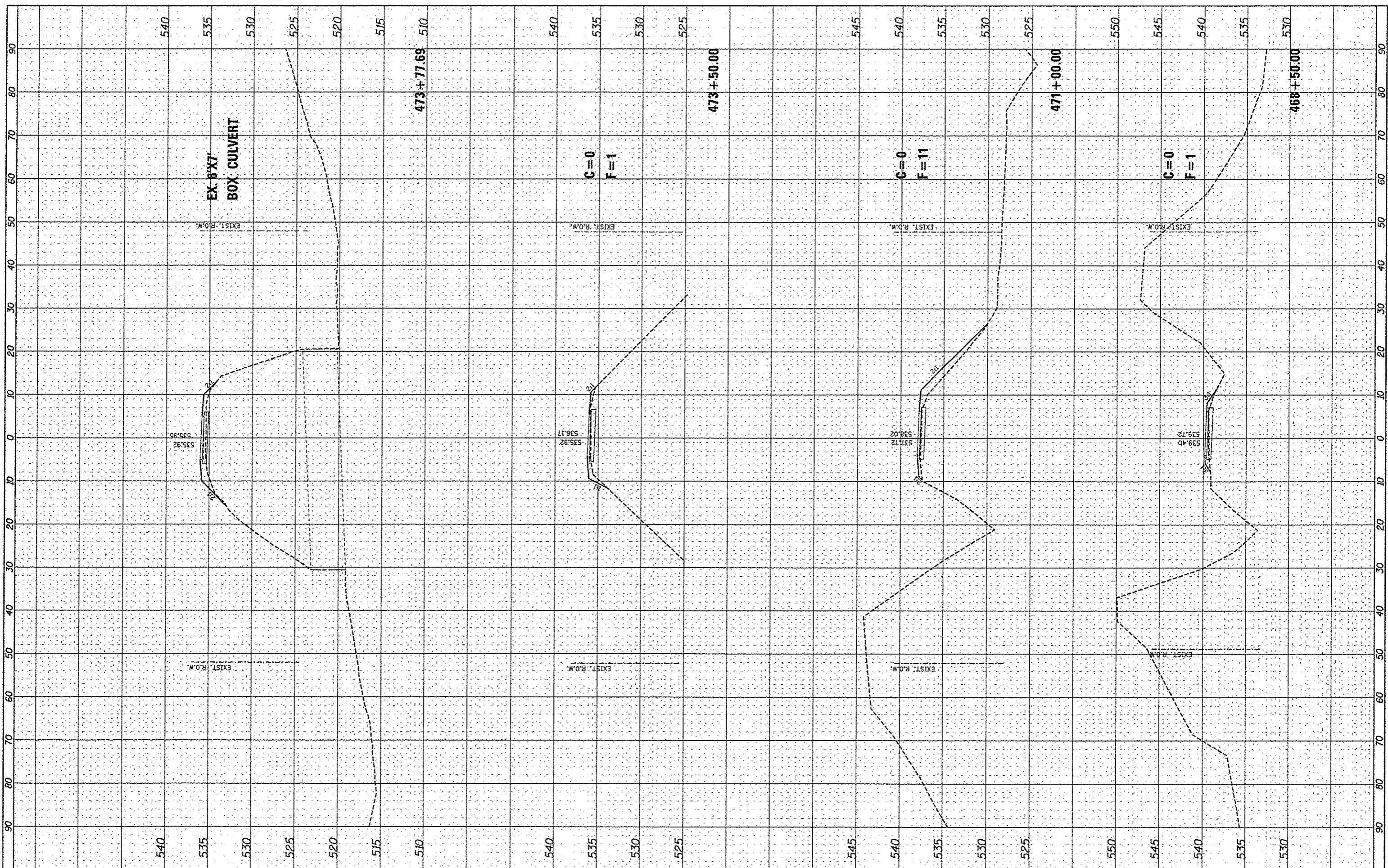
ORIGINAL SURVEY	BY	DATE
SURVEYED		
PLOTTED		
NOTE BOOK		
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FILE NAME *	USER NAME * Jeremy	DESIGNED - SAS	REVISED -	MADISON COUNTY TRANSIT DISTRICT HERITAGE BIKEWAY	HERITAGE BIKEWAY CROSS SECTIONS		F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
#FILE#		DRAWN - JDH	REVISED -		SCALE: 1"=10'	SHEET NO. 41 OF 46 SHEETS	STA. 461+00.00 TO STA. 466+00.00	06-00016-00-BT	MADISON	310	298	
		CHECKED - WJB	REVISED -									CONTRACT NO. 97433
		DATE - 11/30/12	REVISED -									ILLINOIS FED. AID PROJECT

DATE	BY

DATE	BY



FILE NAME *
#FILE#

USER NAME * Jeremy
DESIGNED - SAS
DRAWN - JDH
CHECKED - WJB
PLOT DATE = 12/19/2012

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DATE - 11/30/12

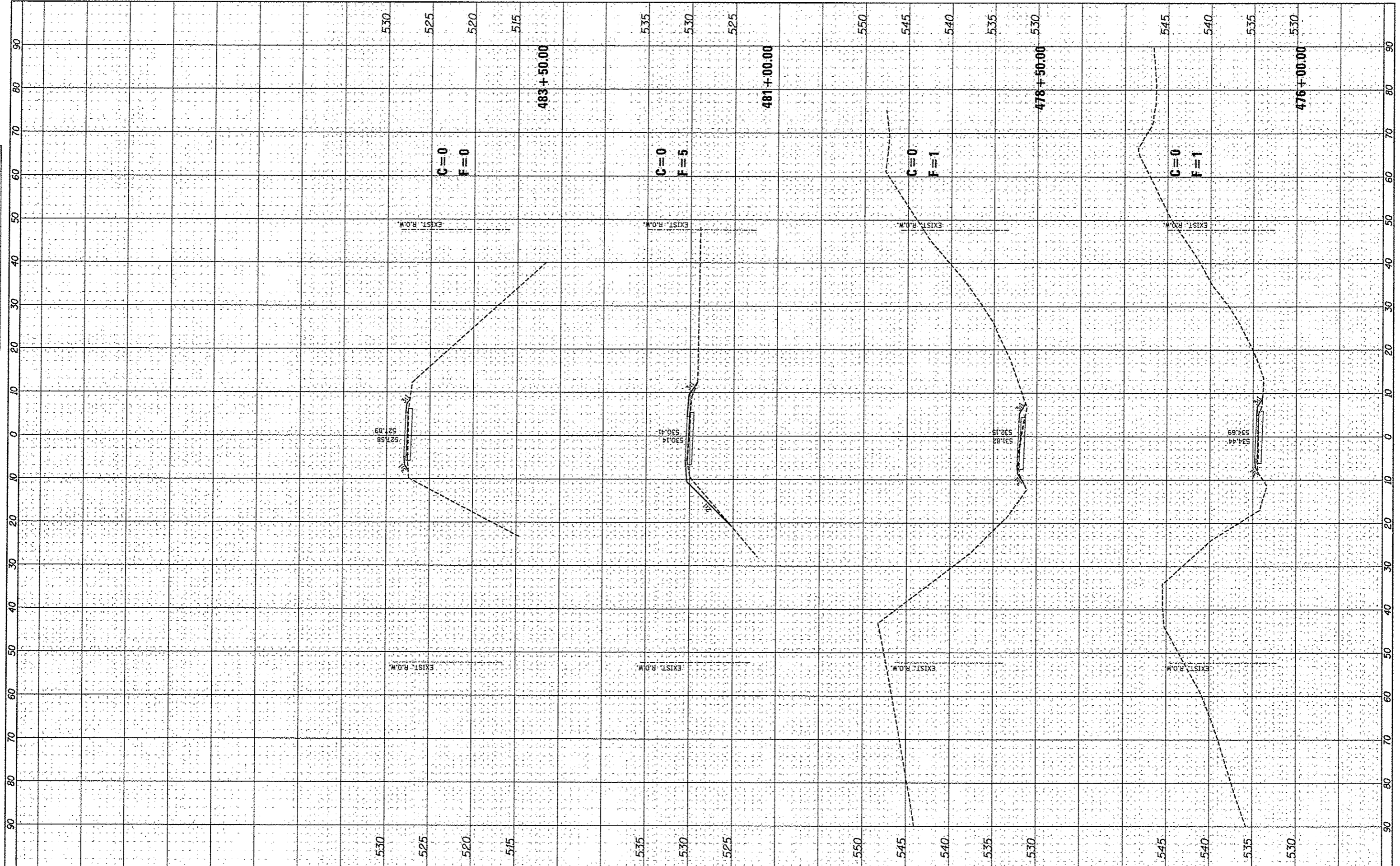
**MADISON COUNTY TRANSIT DISTRICT
HERITAGE BIKEWAY**

**HERITAGE BIKEWAY
CROSS SECTIONS**
SCALE: 1"=10'
SHEET NO. 42 OF 46 SHEETS
STA. 468+50.00 TO STA. 473+77.69

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	06-00016-00-BT	MADISON	310	299
CONTRACT NO. 97433			ILLINOIS FED. AID PROJECT	

FINAL SURVEY	BY	DATE
REVISIONS		
NOTE BOOK		
AREAS DESIGNED		
NO.		

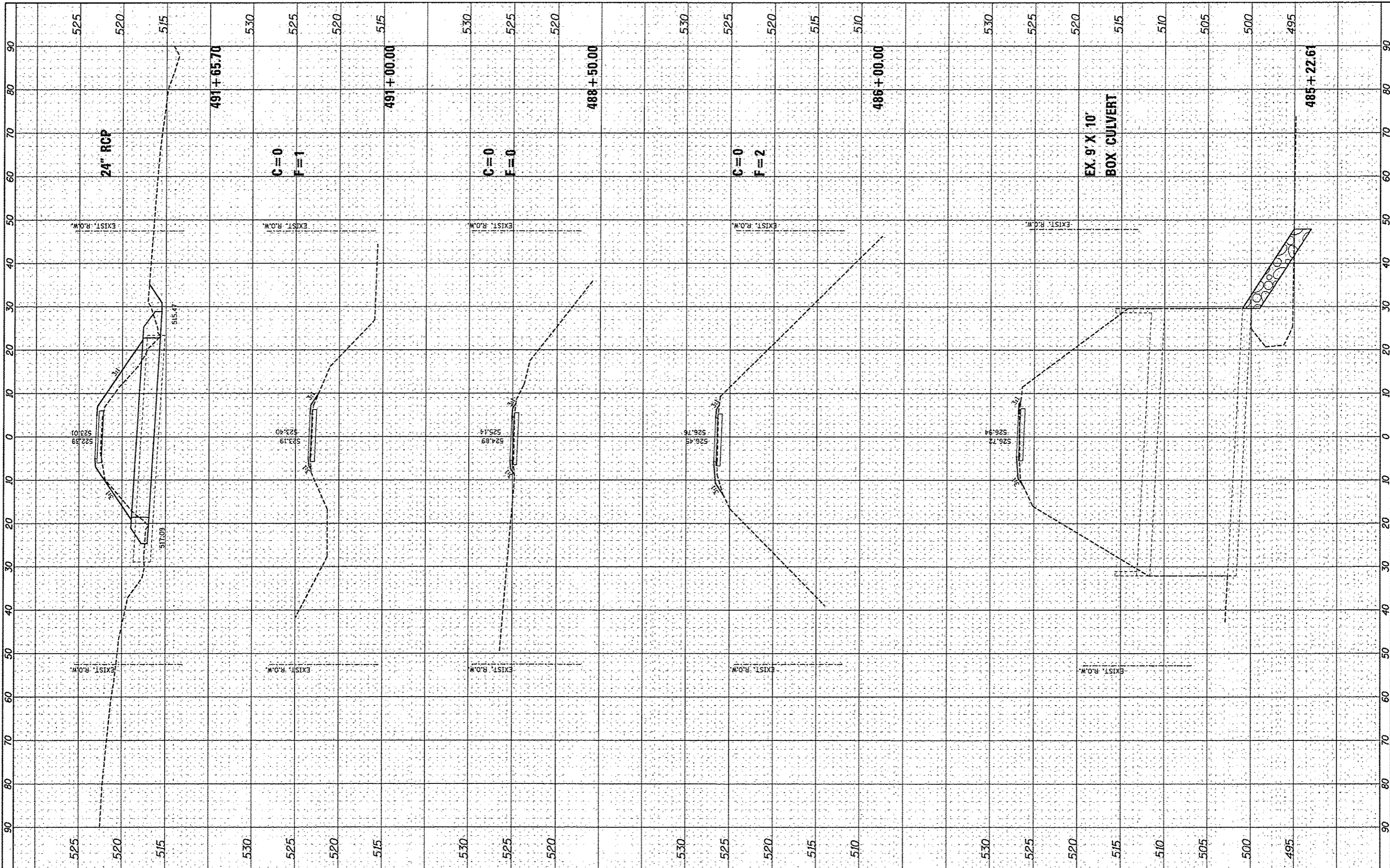
ORIGINAL SURVEY	BY	DATE
REVISIONS		
NOTE BOOK		
AREAS DESIGNED		
NO.		



FILE NAME *	USER NAME = Jeremy	DESIGNED - SAS	REVISED -	MADISON COUNTY TRANSIT DISTRICT HERITAGE BIKEWAY	HERITAGE BIKEWAY CROSS SECTIONS		F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
#FILE#		DRAWN - JDH	REVISED -		SCALE: 1"=10'	SHEET NO. 43 OF 46 SHEETS	STA. 476+00.00 TO STA. 483+50.00	06-00016-00-BT	MADISON	310	300	
		CHECKED - WJB	REVISED -									CONTRACT NO. 97433
		DATE - 11/30/12	REVISED -									ILLINOIS FED. AID PROJECT

FINAL	DATE
SURVEY	BY
NOTE BOOK	
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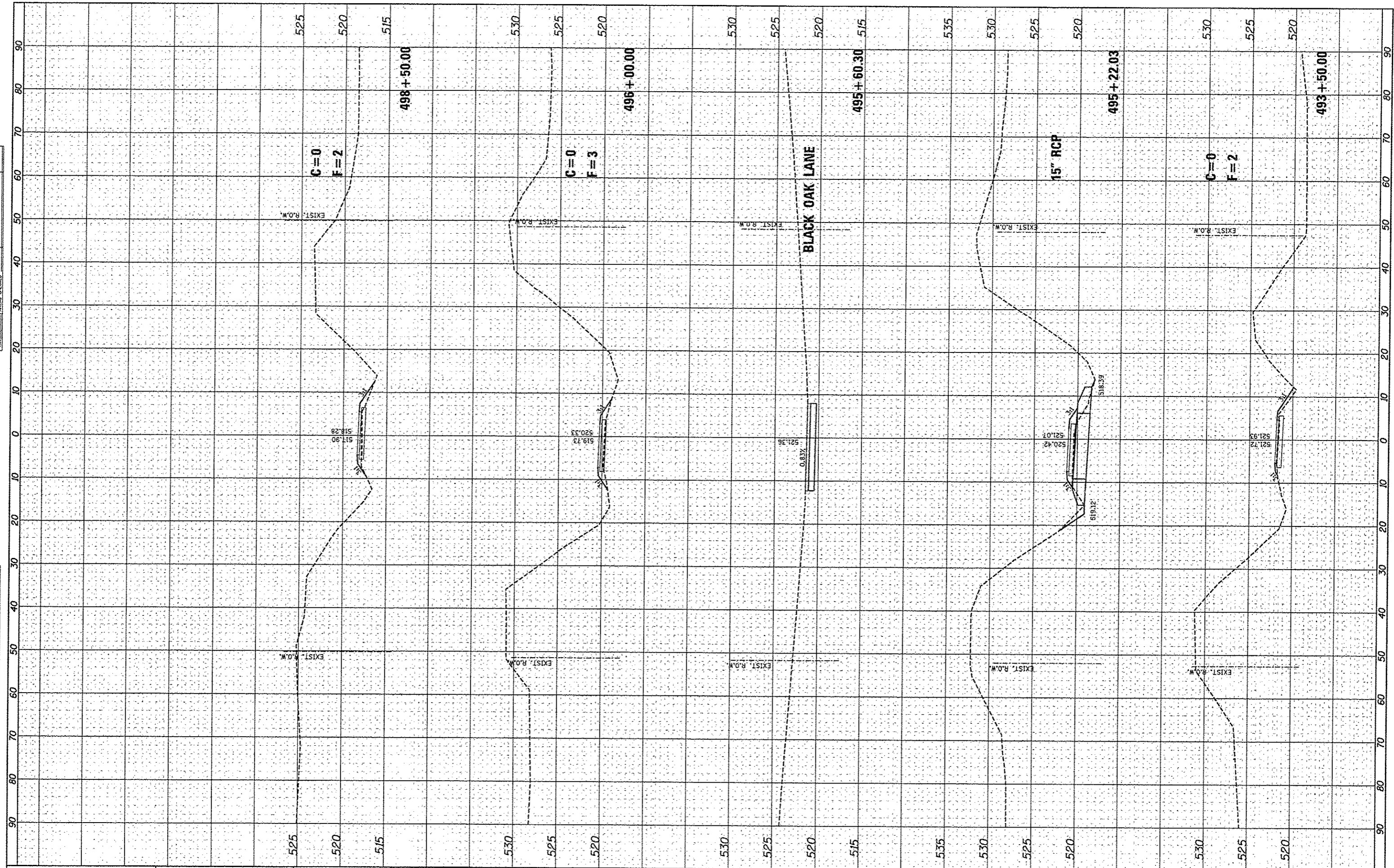
ORIGINAL	DATE
SURVEY	BY
NOTE BOOK	
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REVISED	
PLOTTED	
TEMPLATE	
AREAS	
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FILE NAME *	USER NAME * Jeremy	DESIGNED - SAS	REVISED -	MADISON COUNTY TRANSIT DISTRICT HERITAGE BIKEWAY	HERITAGE BIKEWAY CROSS SECTIONS	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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PLOT SCALE * #SCALE#		CHECKED - WJB	REVISED -			CONTRACT NO. 97433				
PLOT DATE * 12/19/2012		DATE - 11/30/12	REVISED -			ILLINOIS FED. AID PROJECT				
					SCALE: 1"=10'	SHEET NO. 44 OF 46 SHEETS	STA. 485+22.61 TO STA. 491+65.70			

BY	DATE

ORIGINAL SURVEY	DATE



FILE NAME *	
*FILE#	

USER NAME *	Jeremy
DESIGNED -	SAS
REVISOR -	
DRAWN -	JDH
REVISOR -	
CHECKED -	WJB
REVISOR -	
DATE -	11/30/12
REVISOR -	

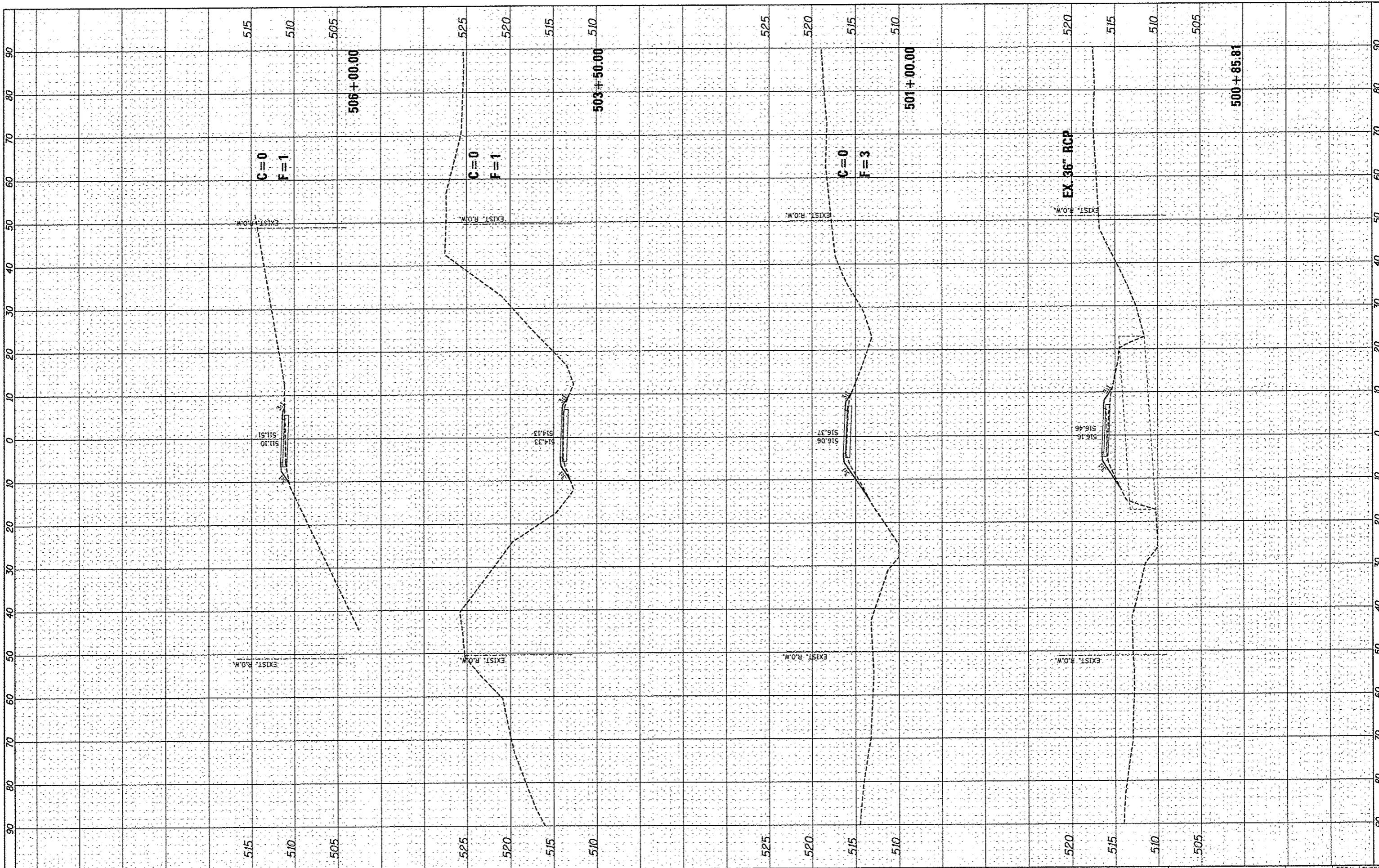
**MADISON COUNTY TRANSIT DISTRICT
HERITAGE BIKEWAY**

HERITAGE BIKEWAY CROSS SECTIONS	
SCALE: 1"=10'	SHEET NO. 45 OF 46 SHEETS
STA. 493+50.00 TO STA. 498+50.00	

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	06-00016-00-BT	MADISON	310	302
CONTRACT NO. 97433				
ILLINOIS FED. AID PROJECT				

BY	DATE
SURVEYED	
PLOTTED	
NOTE BOOK	
AREAS CHECKED	
NO.	

BY	DATE
SURVEYED	
PLOTTED	
NOTE BOOK	
AREAS CHECKED	
NO.	



FILE NAME *
#FILE#

USER NAME = Jeremy
DESIGNED - SAS
DRAWN - JQH
CHECKED - WJB
DATE - 11/30/12

REVISED -
REVISED -
REVISED -
REVISED -

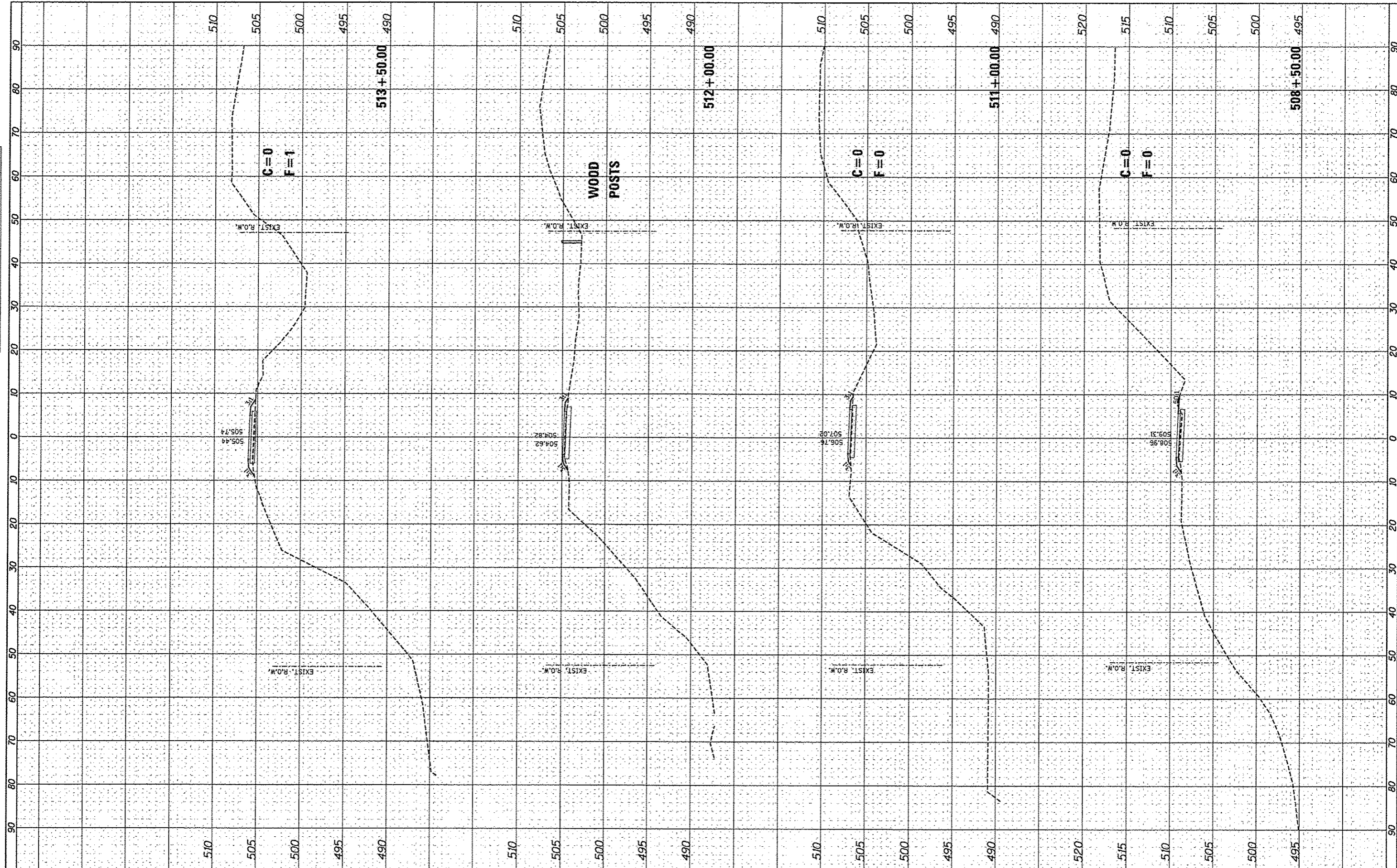
**MADISON COUNTY TRANSIT DISTRICT
HERITAGE BIKEWAY**

**HERITAGE BIKEWAY
CROSS SECTIONS**
SCALE: 1"=10'
SHEET NO. 45 OF 46 SHEETS
STA. 500+85.81 TO STA. 506+00.00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	06-00016-00-BT	MADISON	310	303
			CONTRACT NO. 97433	
ILLINOIS FED. AID PROJECT				

DATE	
BY	
NO.	
FINN	
SHREY	
NOTE BOOK	
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SURVEYED	
PLOTTED	
TEMPLATE	
AREAS CHECKED	

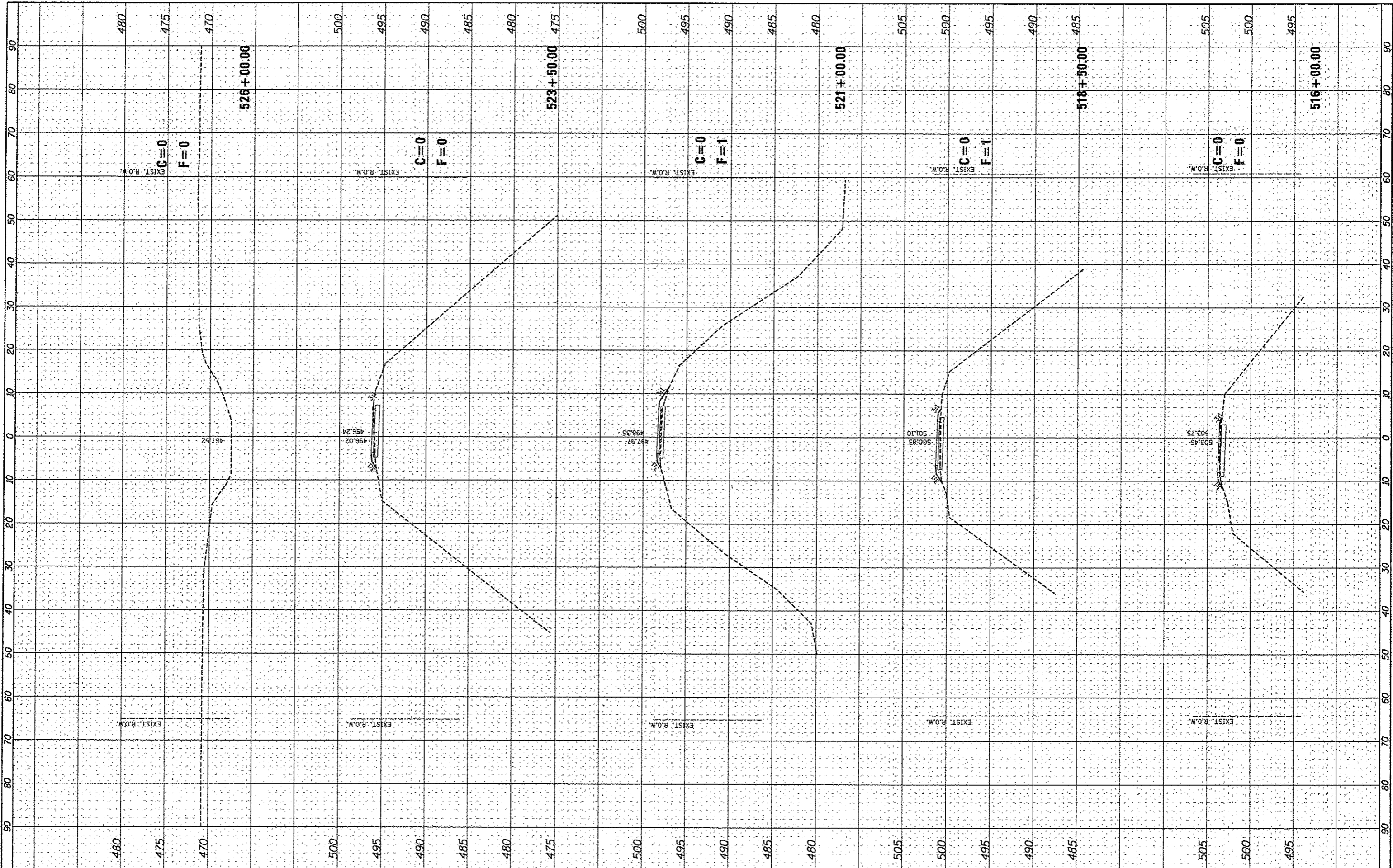
DATE	
BY	
NO.	
ORIGINAL	
SHREY	
NOTE BOOK	
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SURVEYED	
PLOTTED	
TEMPLATE	
AREAS CHECKED	



FILE NAME *	USER NAME * Jeremy	DESIGNED - SAS	REVISED -	MADISON COUNTY TRANSIT DISTRICT HERITAGE BIKEWAY	HERITAGE BIKEWAY CROSS SECTIONS				F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
#FILE#		DRAWN - JQH	REVISED -		SCALE: 1"=10'	SHEET NO. 46 OF 46 SHEETS	STA. 508+50.00	TO STA. 513+50.00	06-00016-00-BT	MADISON	310	304	
		CHECKED - WJB	REVISED -		CONTRACT NO. 97433								
		DATE - 11/30/12	REVISED -		ILLINOIS FED. AID PROJECT								

BY	DATE

BY	DATE



FILE NAME *
#FILE#

USER NAME * Jeremy
PLOT SCALE * #SCALE#
PLOT DATE * 12/19/2012

DESIGNED - SAS
DRAWN - JDH
CHECKED - WJB
DATE - 11/30/12

REVISED -
REVISED -
REVISED -
REVISED -

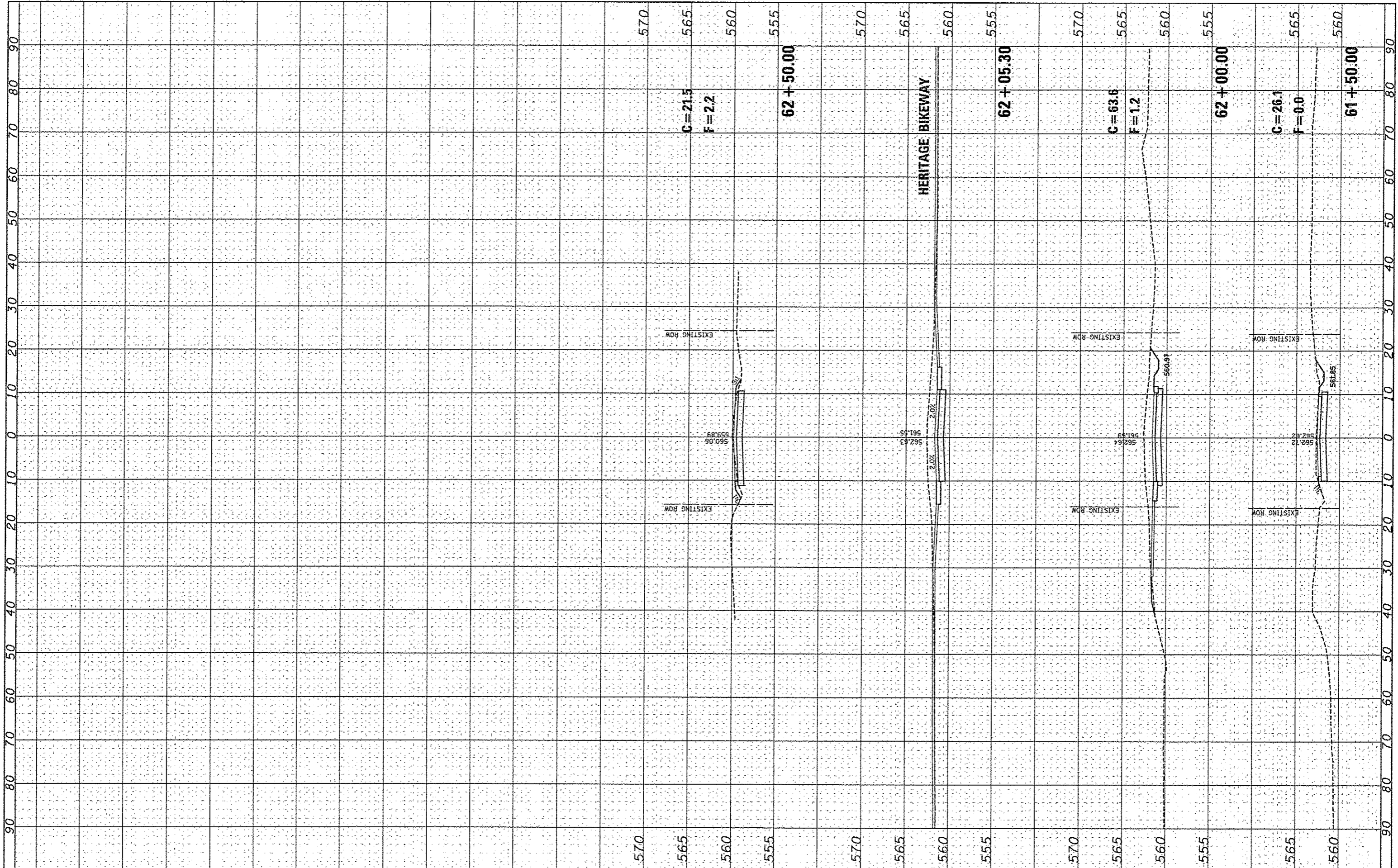
**MADISON COUNTY TRANSIT DISTRICT
HERITAGE BIKEWAY**

**HERITAGE BIKEWAY
CROSS SECTIONS**
SCALE: 1"=10'
SHEET NO. 46 OF 46 SHEETS
STA. 516+00.00 TO STA. 526+00.00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	06-00016-00-BT	MADISON	310	305
				CONTRACT NO. 97433
ILLINOIS FED. AID PROJECT				

FINAL SURVEY	BY	DATE
PLOTTED		
NOTE BOOK		
AREAS CHECKED		
NO.		

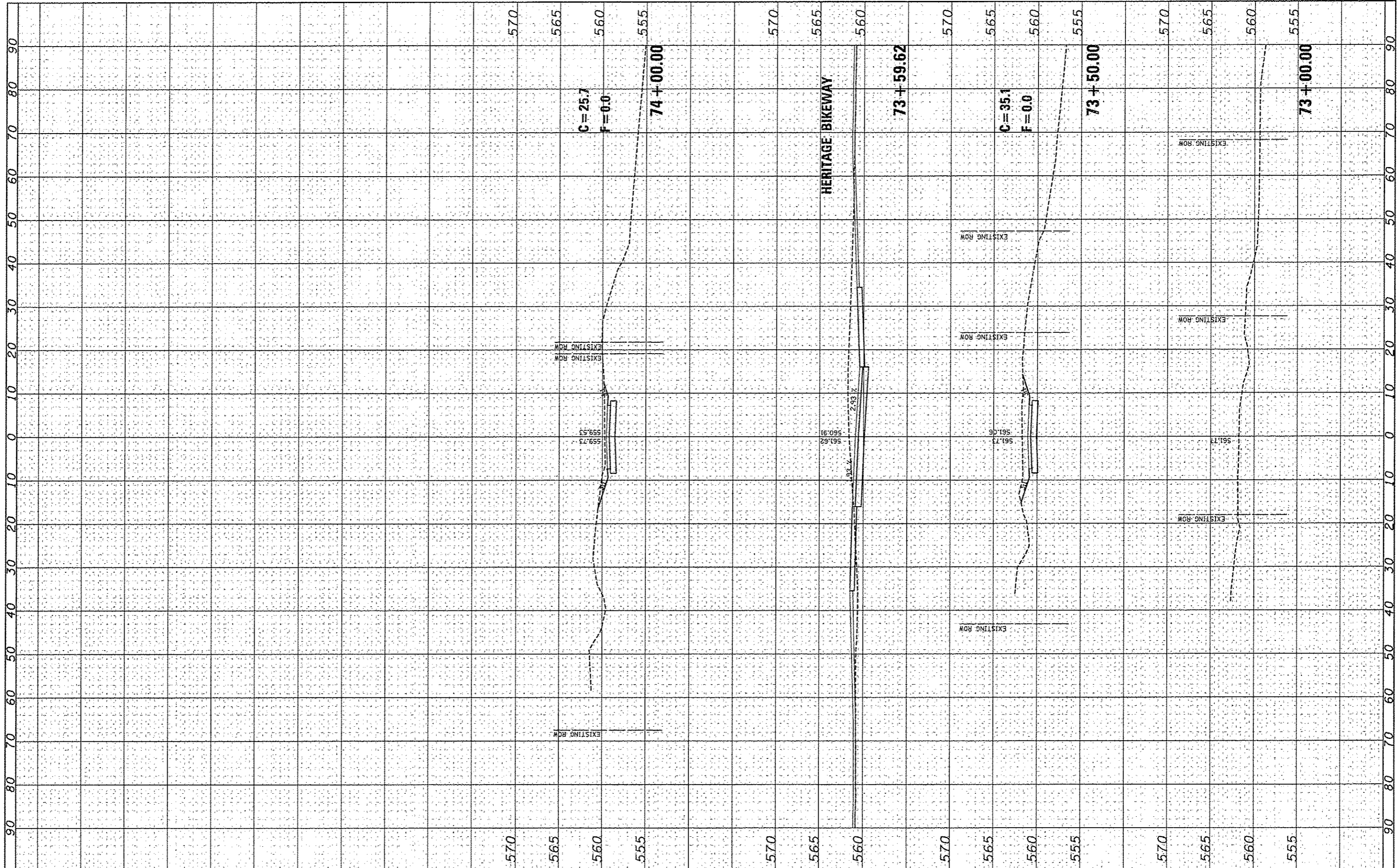
ORIGINAL SURVEY	BY	DATE
SKETCHED		
NOTE BOOK		
AREAS CHECKED		
NO.		



FILE NAME *	USER NAME * Jeremy	DESIGNED - SAS	REVISED -	MADISON COUNTY TRANSIT DISTRICT HERITAGE BIKEWAY	RIDGE VIEW ROAD CROSS SECTIONS			F.A. RT.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
#FILE#		DRAWN - JDH	REVISED -		SCALE: 1"=10'	SHEET NO. 1 OF 1 SHEETS	STA. 61+50.00 TO STA. 62+50.00	06-00016-00-BT	MADISON	310	306	
		CHECKED - WJB	REVISED -									CONTRACT NO. 97433
		DATE - 11/30/12	REVISED -									ILLINOIS FED. AID PROJECT

BY _____ DATE _____
 SURVEYED _____
 PLOTTED _____
 FINAL SURVEY _____
 NOTE BOOK _____
 NO. _____

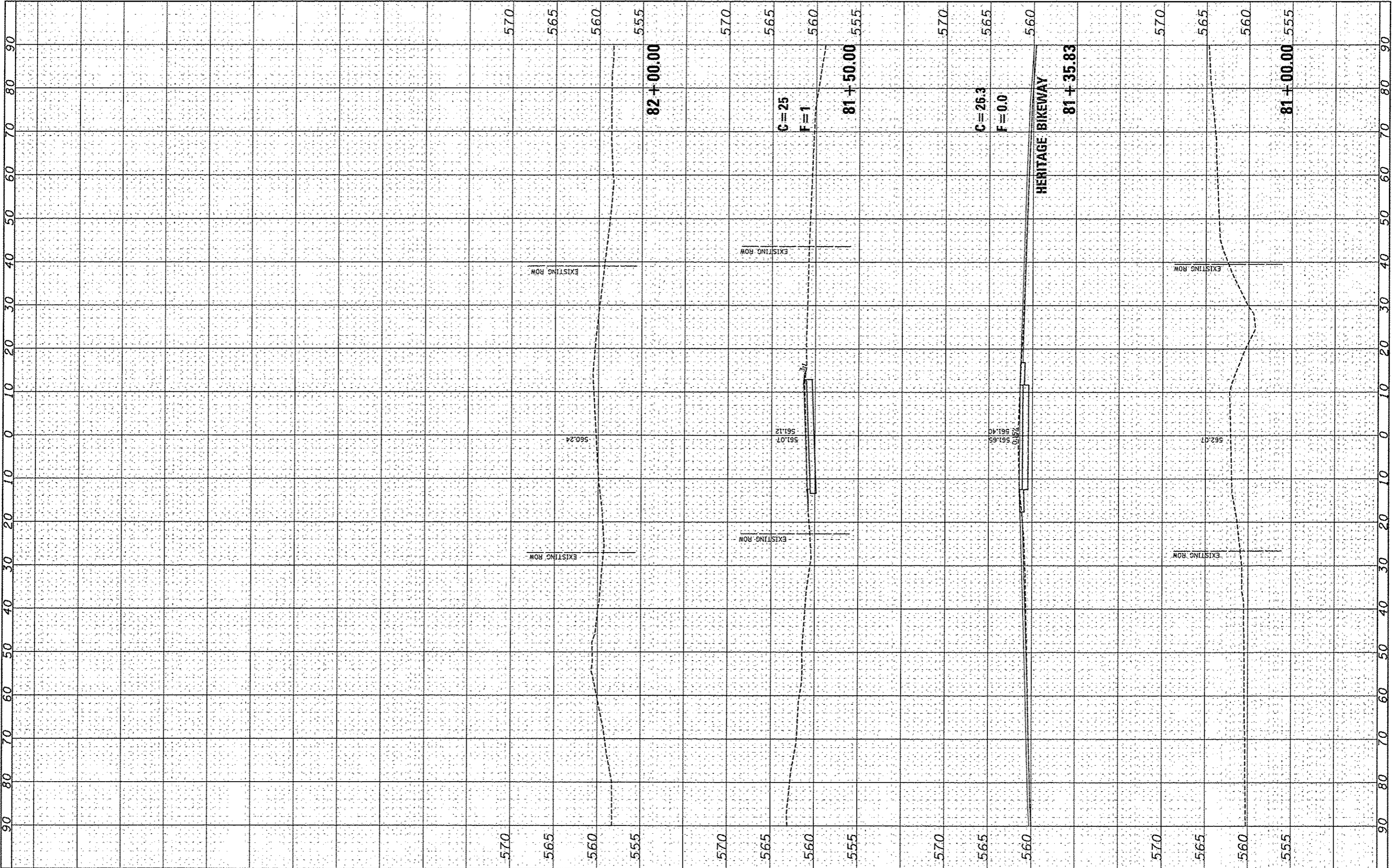
BY _____ DATE _____
 SURVEYED _____
 PLOTTED _____
 ORIGINAL SURVEY _____
 NOTE BOOK _____
 NO. _____



FILE NAME * #FILE#	USER NAME * Jeremy	DESIGNED - SAS	REVISED -	MADISON COUNTY TRANSIT DISTRICT HERITAGE BIKEWAY	MICK ROAD CROSS SECTIONS		F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		DRAWN - JDH	REVISED -		SCALE: 1"=10'	SHEET NO. 1 OF 1 SHEETS	STA. 73+00.00	06-00016-00-BT	MADISON	310	307
		CHECKED - WJB	REVISED -				TO STA. 74+00.00				
		PLLOT DATE * 12/10/2012	REVISED -								
		DATE - 11/30/12	REVISED -				ILLINOIS FED. AID PROJECT CONTRACT NO. 97433				

BY	DATE

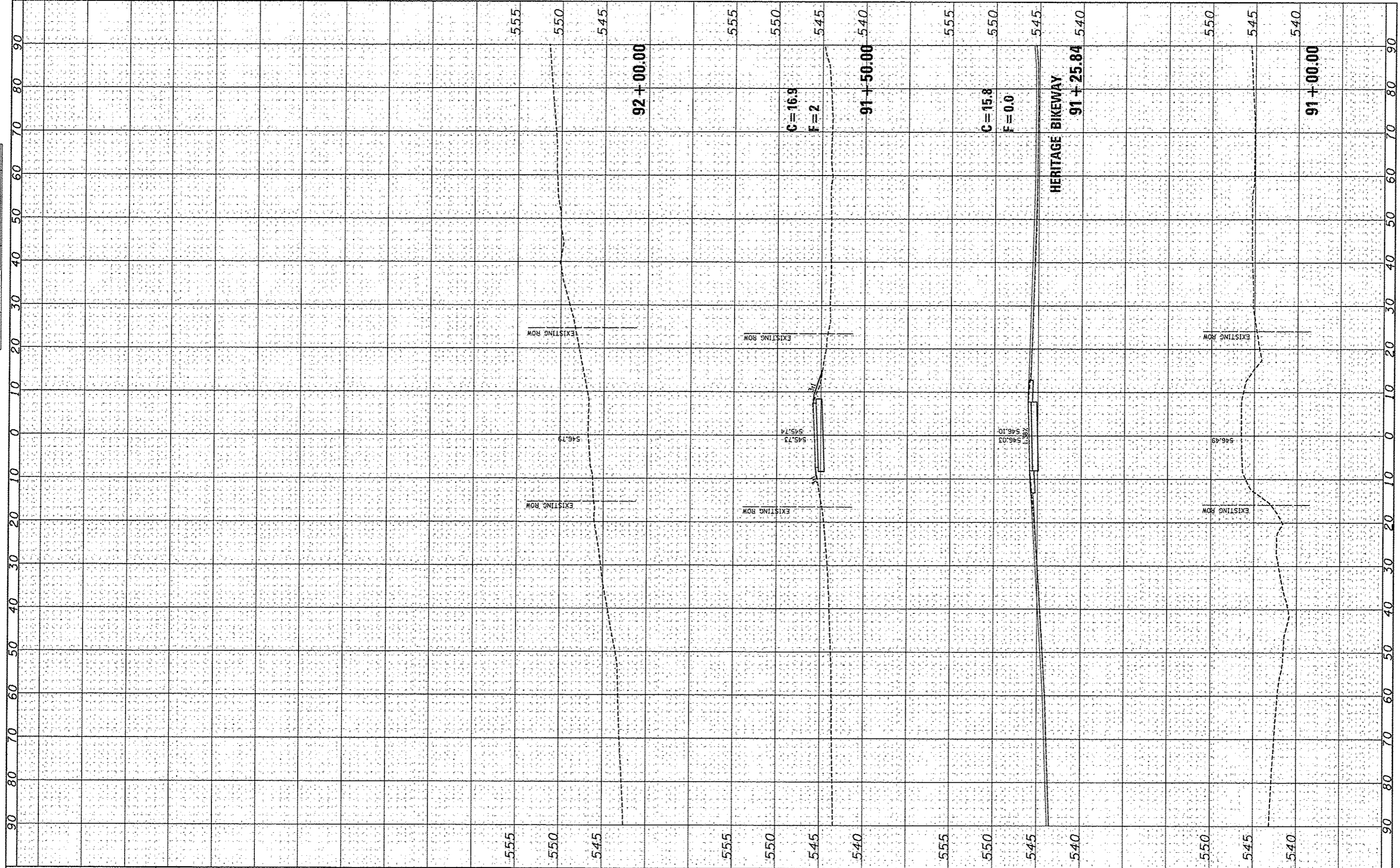
BY	DATE



FILE NAME *	USER NAME * Jeremy	DESIGNED - SAS	REVISED -	MADISON COUNTY TRANSIT DISTRICT HERITAGE BIKEWAY	STAUNTON ROAD CROSS SECTIONS SCALE: 1"=10' SHEET NO. 1 OF 1 SHEETS STA. 81+00.00 TO STA. 82+00.00			F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
#FILE#		DRAWN - JDH	REVISED -					06-00016-00-BT	MADISON	310	308	
		CHECKED - WJB	REVISED -					CONTRACT NO. 97433				
		DATE - 11/30/12	REVISED -					ILLINOIS FED. AID PROJECT				

BY	DATE
SURVEYED	
PLANNED	
DESIGNED	
NOTE BOOK	
NO.	
AREAS CHECKED	

BY	DATE
SURVEYED	
PLANNED	
DESIGNED	
NOTE BOOK	
NO.	
AREAS CHECKED	



FILE NAME *	USER NAME * Jeremy	DESIGNED - SAS	REVISED -
#FILE#		DRAWN - JDH	REVISED -
		CHECKED - WJB	REVISED -
		DATE - 11/30/12	REVISED -

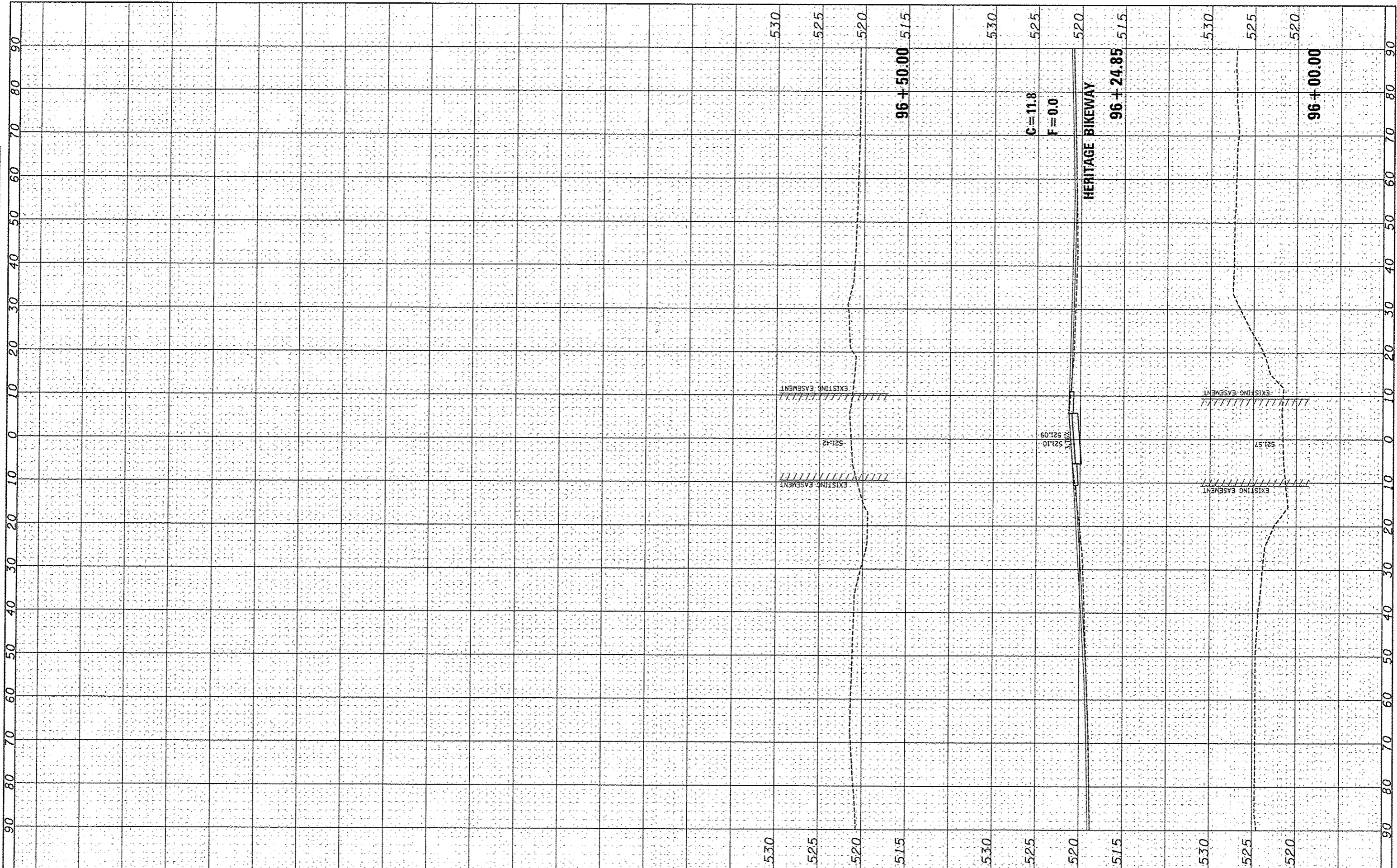
**MADISON COUNTY TRANSIT DISTRICT
HERITAGE BIKEWAY**

KUHN STATION ROAD CROSS SECTIONS		
SCALE: 1"=10'	SHEET NO. 1 OF 1 SHEETS	STA. 91+00.00 TO STA. 92+00.00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	06-00016-00-BT	MADISON	310	309
CONTRACT NO. 97433				
ILLINOIS FED. AID PROJECT				

DATE	
BY	
SAVED	
PLOTTED	
TEMPLATE	
NOTE BOOK	
AREAS CHECKED	

DATE	
BY	
SAVED	
PLOTTED	
TEMPLATE	
NOTE BOOK	
AREAS CHECKED	



FILE NAME *	USER NAME * Jeremy	DESIGNED - SAS	REVISED -	MADISON COUNTY TRANSIT DISTRICT HERITAGE BIKEWAY	BLACK OAK LANE CROSS SECTIONS		F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
#FILE#		DRAWN - JDH	REVISED -		06-0016-00-BT	MADISON	310	310			
		CHECKED - WJB	REVISED -		CONTRACT NO. 97433						
		DATE - 11/30/12	REVISED -		SCALE: 1"=10'	SHEET NO. 1 OF 1 SHEETS	STA. 96+00.00	TO STA. 96+50.00	ILLINOIS FED. AID PROJECT		