8-4-06 Letting, Item 079

RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
T.R. 137	*	JERSEY	9	1
FEDERAL AID PROJECT				

CONTRACT NO. 97277

04-07118-00-BR

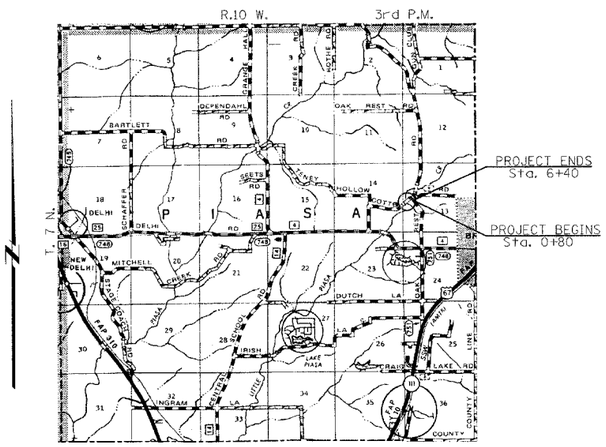
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PLANS FOR PROPOSED HIGHWAY BRIDGE REPLACEMENT AND REHABILITATION PROGRAM PROJECT NO. BROS-083 (038) T.R. 137 OVER PIASA CREEK SECTION 04-07118-00-BR JERSEY COUNTY C-98-310-06

INDEX OF SHEETS

STANDARDS

STANDARD 515001-02
STANDARD 701201-02
STANDARD 701301-02
STANDARD 702001-06
STANDARD BLR 21-6



LOCATION MAP

Length of Section - 560.00 Feet = 0.106 Miles

Scale: 1" = 1 Mile

LOCATION OF SECTION INDICATED THUS: ■

Scale in Feet

0 50 100 = Profile - Plan
0 50 100 = Profile - Horizontal
0 5 10 = Profile - Vertical
0 5 10 = Cross Sections - Horizontal
0 5 10 = Cross Sections - Vertical

EXISTING STRUCTURE: SINGLE SPAN CAST IN PLACE CONCRETE DECK, WINGWALLS AND RAIL, ±31'-0" BK.-BK. ABUTMENTS, ±16'-9" CLEAR DECK WIDTH, 0° SKEW.
EXISTING STRUCTURE NO. 042-3074

PROPOSED STRUCTURE: SINGLE SPAN PRECAST PRESTRESSED CONCRETE DECK BEAMS (27") ON OPEN CONCRETE ABUTMENTS, 24'-0" CLEAR DECK WIDTH, TYPE S1 RAILING, 10° SKEW LT. FORWARD.
PROPOSED STRUCTURE NO. 042-3139

Land Section - 13
Land Quarter Section - S.W.
Political Township - Piasa

DESIGN DESIGNATION

Design Speed = 30 m.p.h.
Functional Classification: Local Road
ADT: 175 (2006)
214 (2026)

CHRISTOPHER P. KOHLRUS 062-046868 LICENSED PROFESSIONAL ENGINEER OF ILLINOIS

Christopher P. Kohlrus 3/16/06
Expiration: 11/30/07

APPROVED 3/6, 20 06
COUNTY ENGINEER

APPROVED 3/6, 20 06
ROAD COMMISSIONER

PASSED April 6, 20 06
DISTRICT EIGHT ENGINEER OF LOCAL ROADS & STREETS

April 6, 20 06
MARY C. LAMIE, P.E.
DEPUTY DIRECTOR OF HIGHWAYS
REGION FIVE ENGINEER
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TOLL FREE
"JOINT UTILITY LOCATION INFORMATION FOR EXCAVATORS"
(J.U.L.I.E.) TELEPHONE NUMBER
1-800-892-0123

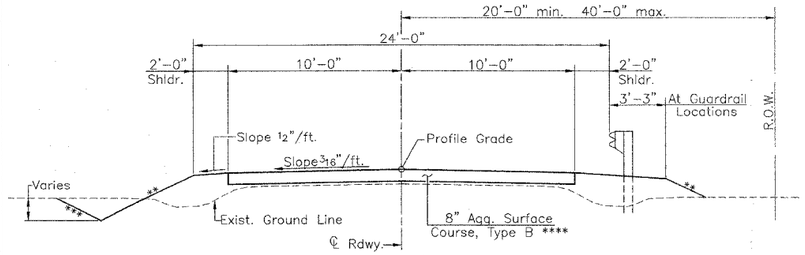
CONTRACT NO. 97277

FILE NAME: jo137s (REV. 3/8/06)

RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
T.R. 137	*	JERSEY	9	2
FEDERAL AID PROJECT BROS-083(038)				

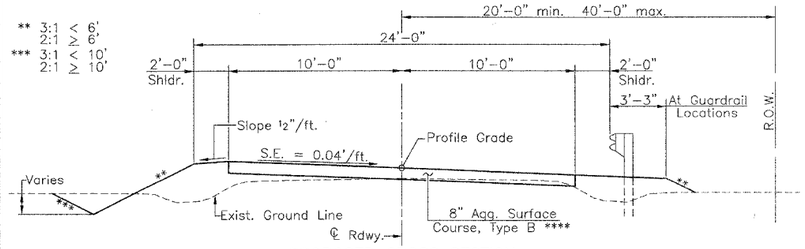
* 04-07118-00-BR

CONTRACT NO. 97277



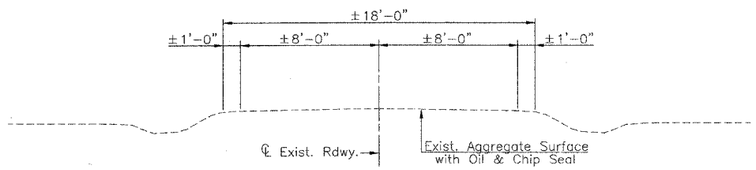
PROPOSED CROSS SECTION

(Sta. 0+80 to Sta. 1+31 & Sta. 3+58.81 to Sta. 6+40)



PROPOSED CROSS SECTION

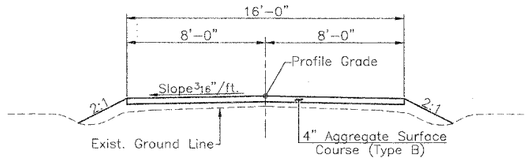
(Sta. 1+31 to Sta. 3+58.81)



EXISTING CROSS SECTION

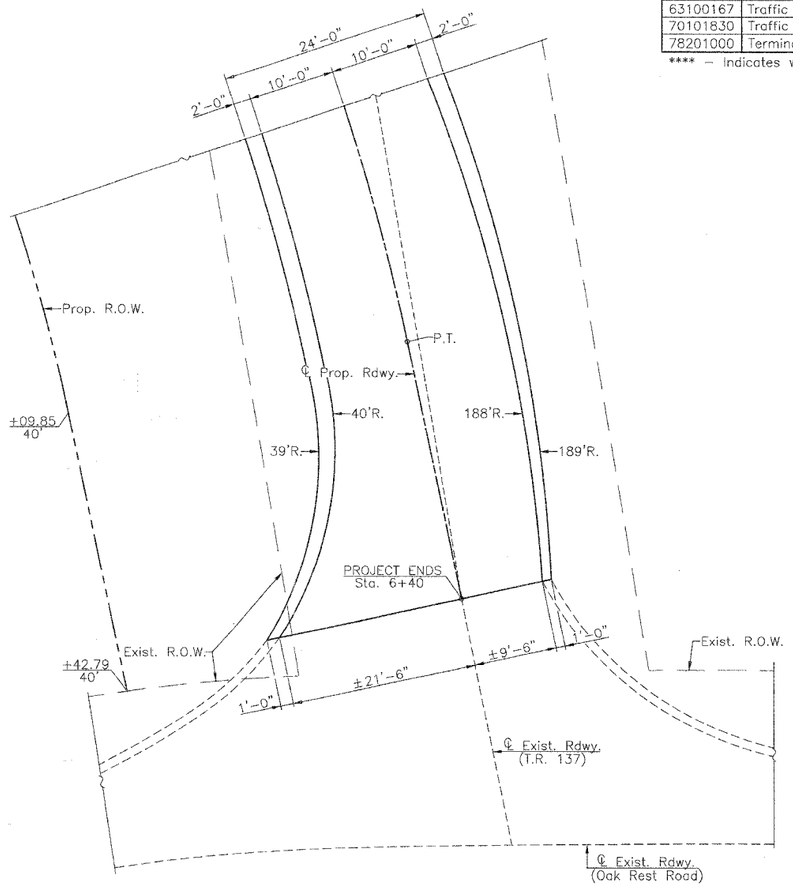
EARTHWORK SCHEDULE

Location	Earth Excavation	Earth Excavation Adjusted For Shrinkage	Embankment	Earthwork Balance Waste (+) or Shortage (−)
	Cubic Yard	Cubic Yard	Cubic Yard	Cubic Yard
Sta. 0+80 to Sta. 1+00	4	3	0	+3
Sta. 1+00 to Sta. 1+90	23	17	35	−18
Sta. 1+90 to Sta. 3+00	31	23	179	−156
Sta. 3+00 to Sta. 3+50	25	19	147	−128
Sta. 3+50 to Sta. 3+73	13	10	78	−68
Bridge Omission − Sta. 3+73 to Sta. 4+29	−	−	−	−
Sta. 4+29 to Sta. 4+40	31	23	87	−64
Sta. 4+40 to Sta. 5+00	101	76	402	−326
Sta. 5+00 to Sta. 6+00	30	23	357	−335
Sta. 6+00 to Sta. 6+40	0	0	33	−33
Total	258	194	1328	−1125

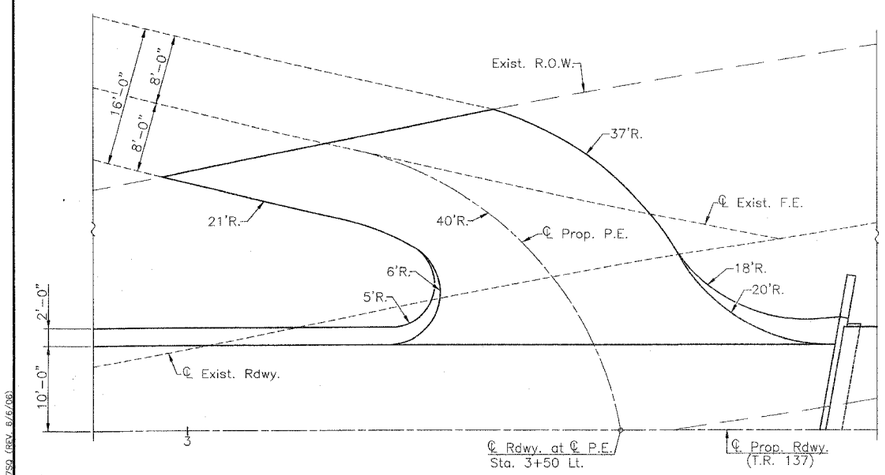


TYPICAL PRIVATE ENTRANCE

(P.E. Sta. 2+84 Lt.)



PLAN



PLAN

SUMMARY OF QUANTITIES

X081-2A

	CODE NO.	ITEM	UNIT	QUANTITY
	20100500	Tree Removal, Acres	Acre	0.2
	20200100	Earth Excavation	Cu. Yd.	258
	20300100	Channel Excavation	Cu. Yd.	51
	20400800	Furnished Excavation	Cu. Yd.	1125
	25001000	Seeding, Class 2 (Special)	Acre	0.60
	28100807	Stone Dumped Riprap, Class A4	Ton	314
	28200200	Filter Fabric	Sq. Yd.	544
****	40200800	Aggregate Surface Course, Type B	Ton	531
	50100100	Removal of Existing Structures	Each	1
	50200100	Structure Excavation	Cu. Yd.	67
	50300225	Concrete Structures	Cu. Yd.	45.5
	50400505	Precast Prestressed Concrete Deck Beams (27" Depth)	Sq. Ft.	1312
	50800105	Reinforcement Bars	Pound	3970
	50900205	Steel Railing, Type S1	Foot	112
	51201400	Furnishing Steel Piles HP10x42	Foot	222
	51202700	Driving Steel Piles	Foot	222
	51203400	Test Pile, Steel HP10x42	Each	1
	51500100	Name Plates	Each	1
	67100100	Mobilization	L. Sum	1
	63100075	Traffic Barrier Terminal, Type 5A	Each	2
	63100167	Traffic Barrier Terminal, Type 1 Special (Tangent)	Each	2
	70101830	Traffic Control & Protection Standard BLR 21	L. Sum	1
	78201000	Terminal Marker − Direct Applied	Each	2

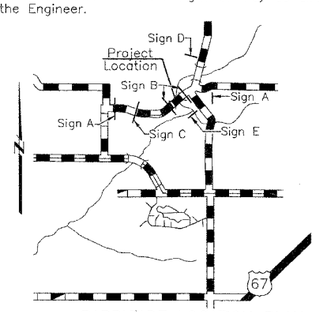
**** − Indicates work to be performed by County Forces

GENERAL NOTES

Where section or subsection markers are encountered, the Engineer shall be notified before such markers are removed. The contractor shall protect and preserve all property markers and monuments until the owner, authorized surveyor, or agent has witnessed or referenced their location.

Seeding: Fertilizer nutrients shall be applied at a ratio of 1:1:1 and at a rate of 270 pounds per acre. Mulch and Agricultural Ground Limestone shall be applied at the rate of 2 tons per acre. See Special Provisions.

Areas to be seeded shall consist of all disturbed earth surfaces within the right-of-way as directed by the Engineer.



BARRICADE LOCATION PLAN

(Refer to Highway Standards 702001 & BLR 21)

Legend

Sign A − "Road Closed Ahead" W20-3(0) 4848

Sign B − BLR Standard 21

Sign C − "Road Closed 500 Feet" W20-3(0) 4848

Sign D − "Road Closed Ahead" W20-3(0) 4848 with M4-9R 3024

Sign E − "Road Closed Ahead" W20-3(0) 4848 with M4-9L 3024

SUMMARY OF QUANTITIES, DETAILS & TYPICAL SECTIONS
T.R. 137 OVER PIASA CREEK
SECTION 04-07118-00-BR
JERSEY COUNTY

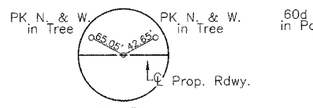
FILE NAME: jlc13750 (REV. 6/6/08)

ALLEN HENDERSON & ASSOCIATES, INC. CONSULTING CIVIL AND STRUCTURAL ENGINEERS SPRINGFIELD,IL. PHONE: (217) 544-8033

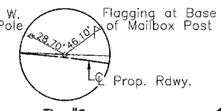
RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
T.R.137	*	JERSEY	9	3
FEDERAL AID PROJECT BROS-083(038)				

* 04-07118-00-BR

CONTRACT NO. 97277

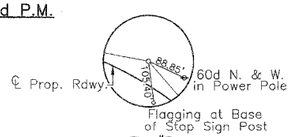


Tie #1
Sta. 0+80
(#5 Rebar)



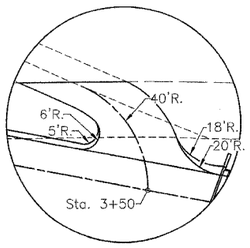
Tie #2
P.I. Sta. 2+45
(#5 Rebar)

SECTION 13 T. 7 N. R.10 W. 3rd P.M.

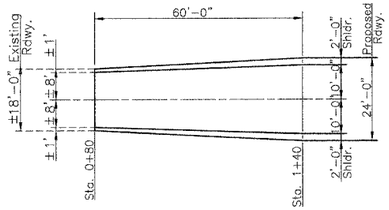


Tie #4
Sta. 6+58
(#5 Rebar)

Tie #3
P.I. Sta. 5+28.41
(#5 Rebar)

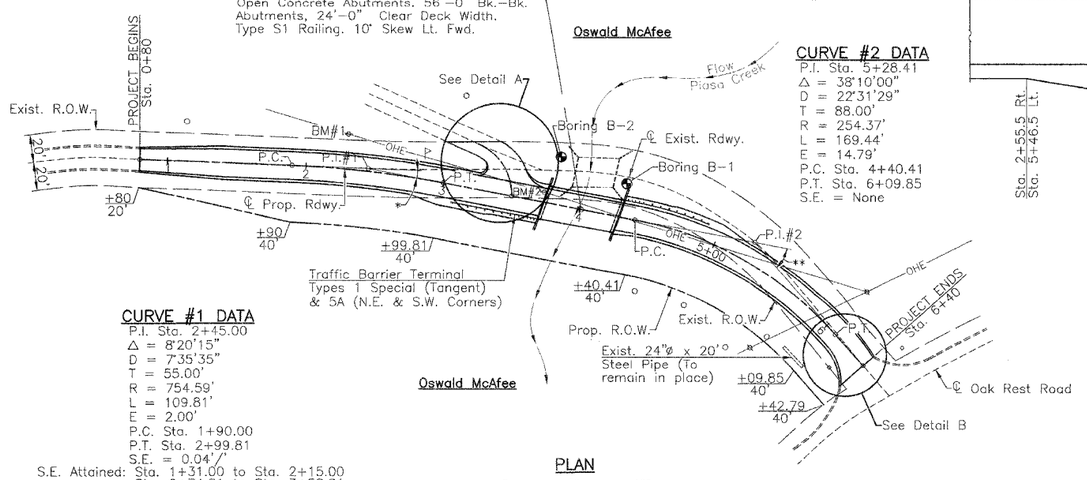


DETAIL A



ROADWAY TRANSITION DETAIL

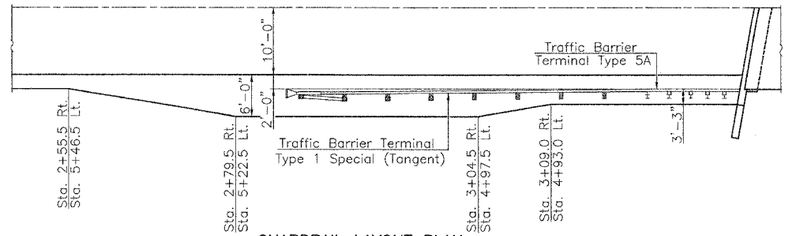
Sta. 4+01.00 – ℄ Rdwy. at ℄ Structure
Proposed Structure: Single Span Precast Prestressed Concrete Deck Beams (27") on Open Concrete Abutments. 56'-0" Bk.-Bk. Abutments, 24'-0" Clear Deck Width. Type S1 Railing. 10° Skew Lt. Fwd.



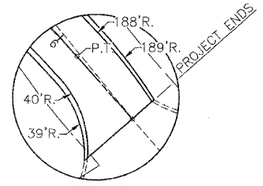
CURVE #1 DATA
P.I. Sta. 2+45.00
Δ = 8°20'15"
D = 7°35'35"
T = 55.00'
R = 754.59'
L = 109.81'
E = 2.00'
P.C. Sta. 1+90.00
P.T. Sta. 2+99.81
S.E. = 0.04"/'
S.E. Attained: Sta. 1+31.00 to Sta. 2+15.00
Sta. 2+74.81 to Sta. 3+58.81

CURVE #2 DATA
P.I. Sta. 5+28.41
Δ = 38°10'00"
D = 22°31'29"
T = 88.00'
R = 254.37'
L = 169.44'
E = 14.79'
P.C. Sta. 4+40.41
P.T. Sta. 6+09.85
S.E. = None

PLAN
0 50 100
Scale: 1"=50'



GUARDRAIL LAYOUT PLAN
(N.E. & S.W. Corners)



DETAIL B

Seeding: Sta. 0+80 to Sta. 6+40 R.O.W. to R.O.W. – 0.6 Acre
Tree Removal – Sta. 3+70 to Sta. 6+10 Rt. – 0.20 Acre

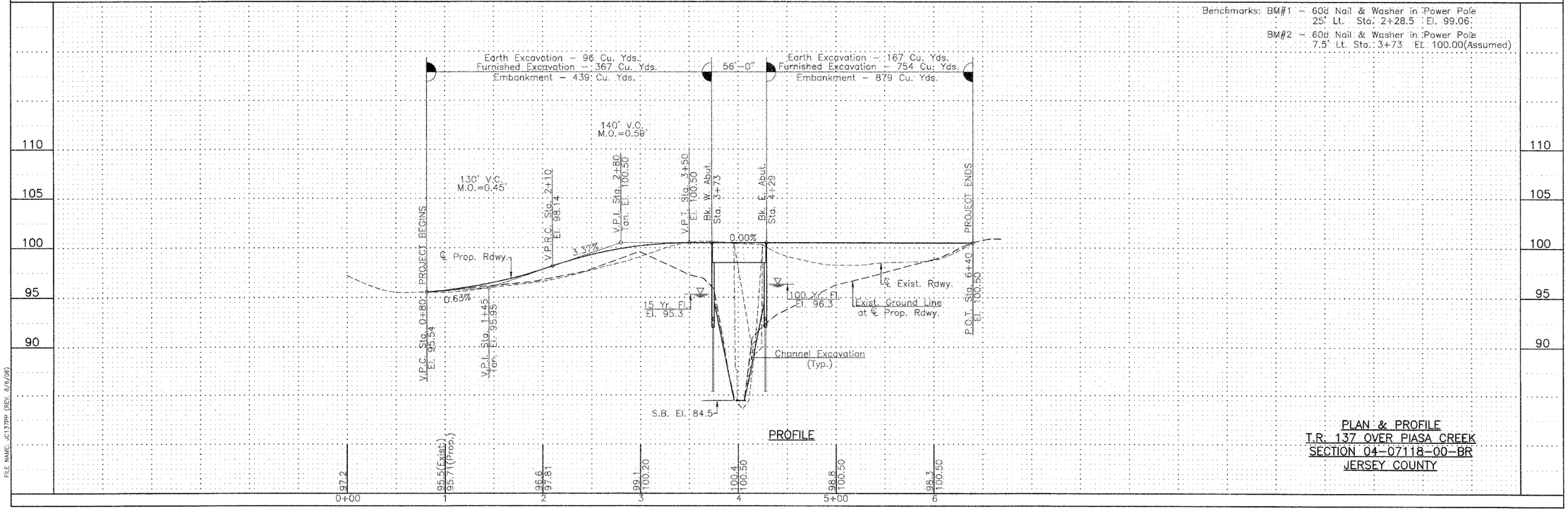
UTILITIES

S.B.C.
Collinsville, Illinois 62234
1-800-244-4444

M.J.M. Electric Cooperative, Inc.
P.O. Box 80
Carlinville, Illinois 62626
1-217-854-3137

Jersey County Rural Water
1009 E. Shipman Road
Jerseyville, Illinois 62052
1-618-498-9534

Benchmarks: BM#1 – 60d Nail & Washer in Power Pole 25' Lt. Sta. 2+28.5 El. 99.06
BM#2 – 60d Nail & Washer in Power Pole 7.5' Lt. Sta. 3+73 El. 100.00(Assumed)



PROFILE

PLAN & PROFILE
T.R. 137 OVER PIASA CREEK
SECTION 04-07118-00-BR
JERSEY COUNTY

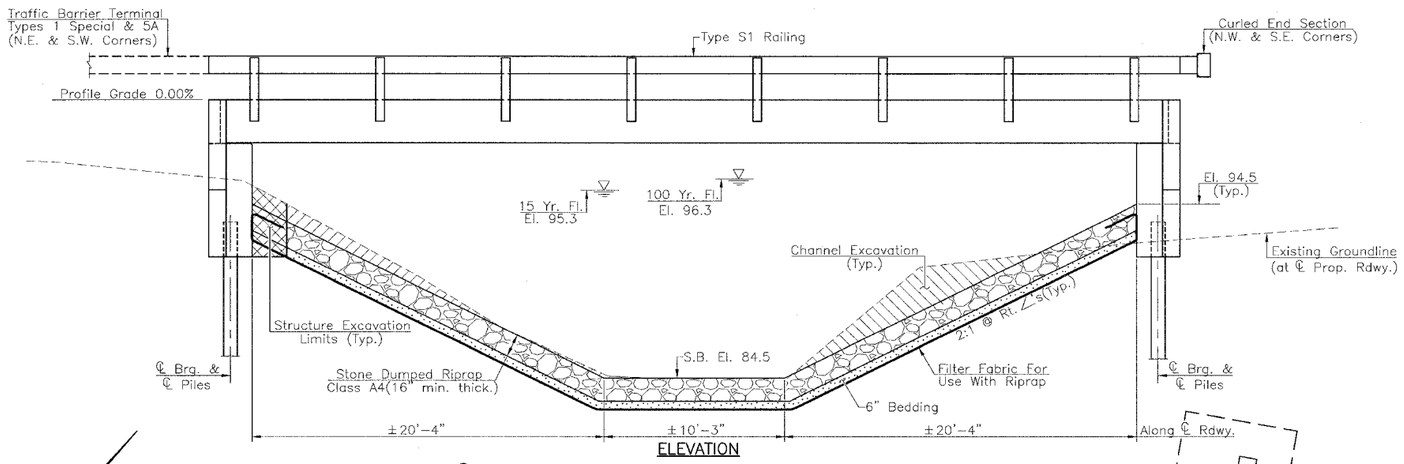
FILE NAME: JC137PP (REV. 6/6/06)

Existing Structure: Single Span Cast In Place Concrete Deck Bridge on Closed Concrete Abutments.
±30'-0" Bk.-Bk. Abutments, ±16'-9" Face to Face of Curb Width. Concrete Railing.
±0° Skew. Existing Structure No. 042-3074.

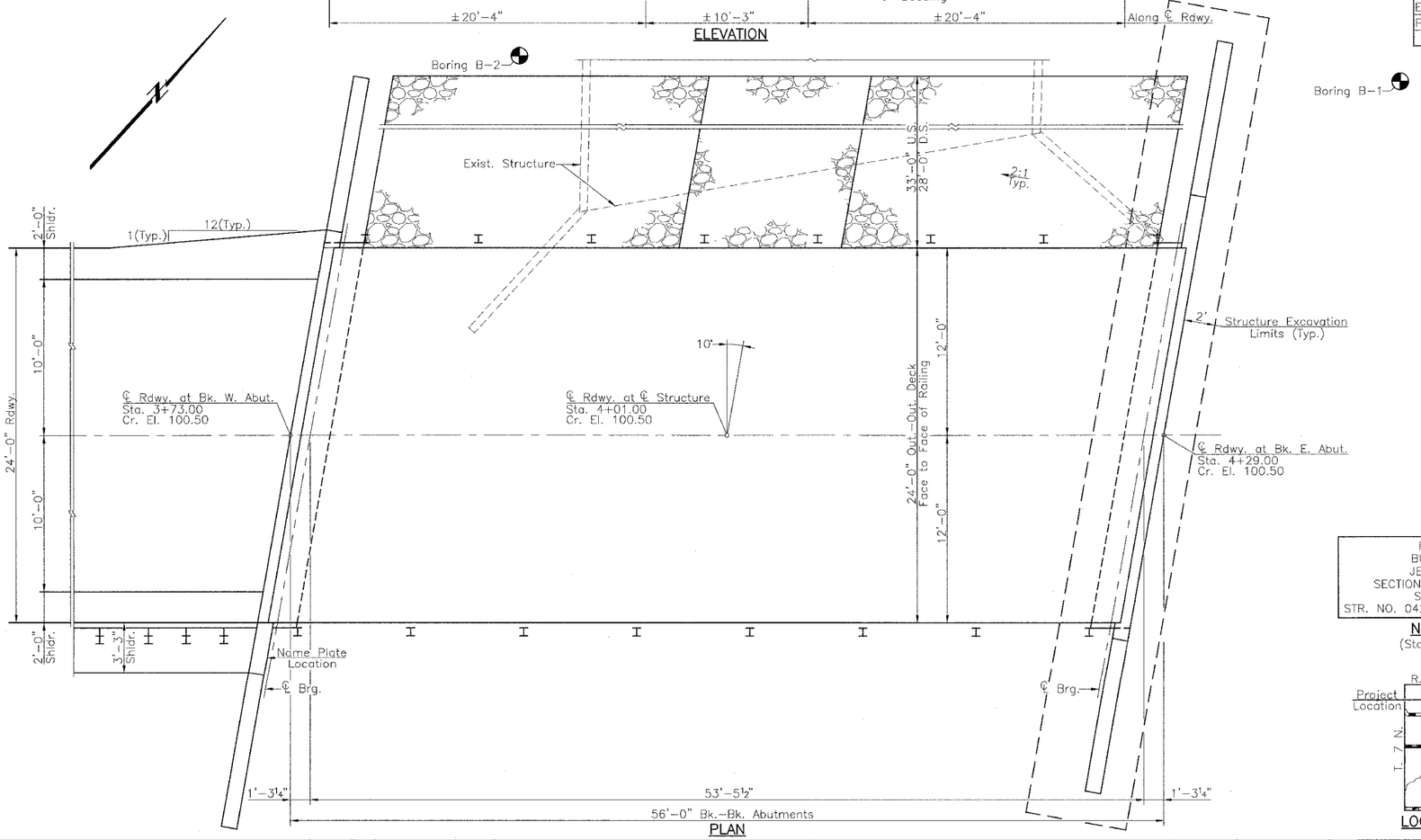
Benchmarks: BM#1 – 60d Nail & Washer in Power Pole
25' Lt. Sta. 2+28.5 El. 99.06
BM#2 – 60d Nail & Washer in Power Pole
7.5' Lt. Sta. 3+73 El. 100.00(Assumed)

RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
T.R. 137	*	JERSEY	9	4
FEDERAL AID PROJECT BROS-083(038)				

* 04-07118-00-BR
CONTRACT NO. 97277



ELEVATION



PLAN

TOTAL BILL OF MATERIAL

Item		Super	Sub	Total
Channel Excavation	Cu. Yd.			51
Stone Dumped Riprap, Class A4	Ton			314
Filter Fabric	Sq. Yd.			544
Removal of Existing Structures	Each			1
Structure Excavation	Cu. Yd.			67
Concrete Structures	Cu. Yd.		45.5	45.5
Precast Prestressed Concrete Deck Beams (27" Depth)	Sq. Ft.	1312		1312
Reinforcement Bars	Pound		3970	3970
Steel Railing Type S1	Foot	112		112
Furnishing Steel Piles HP 10x42	Foot		222	222
Driving Steel Piles	Foot		222	222
Test Pile, Steel HP 10x42	Each		1	1
Name Plates	Each		1	1

WATERWAY INFORMATION

Drainage Area = 3.45 Sq. Miles Low Grade Elev. = 95.54 @ Sta. 0+80

Flood	Freq. Yr.	Q C.F.S.	Opening Sq. Ft. Exist.	Opening Sq. Ft. Prop.	Nat. H.W.E.	Head-Ft. Exist.	Head-Ft. Prop.	Headwater El. Exist.	Headwater El. Prop.
Design	15	1314	243	343	95.3	0.0	0.2	95.3	95.5
Base	100	2168	271	393	96.3	0.3	0.4	96.6	96.7
Exist. Overtop	Greater than 500 years								
Prop. Overtop	Greater than 500 years								
Max. Calc.	500	2887	288	423	96.9	0.9	0.5	97.8	97.4

DESIGN STRESSES

FIELD UNITS
fc = 1400 psi
vc = 56.2 psi
fs = 24000 psi
n = 9

PRECAST PRESTRESSED UNITS
½"ø Strands: f'c = 5000 psi; f'ci = 4000 psi; f's = 270000 psi; f'si = 189000 psi

GENERAL NOTES

See Proposal for Boring Data.

Reinforcement bars shall conform to the requirements of A.A.S.H.T.O. M-31, M-42, or M-53, Grade 60.

The layout of the riprap slopewall may be varied to suit conditions in the field as determined by the engineer.

The contractor shall drive one test pile in a permanent location at the East Abutment as directed by the Engineer in the field prior to ordering the remainder of piles.

DESIGN SPECIFICATIONS

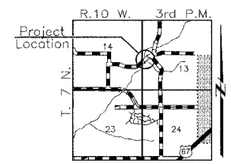
2002 A.A.S.H.T.O. Specifications with 2003 & 2004 Interim Specifications.

LOADING HS 20-44

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

PIASA CREEK
BUILT 200 BY
JERSEY COUNTY
SECTION 04-07118-00-BR
STA. 4+01.00
STR. NO. 042-3139 LOADING HS20

NAME PLATE
(Standard 515001)



LOCATION SKETCH

MARK A. HENDERSON 5513 LICENSED STRUCTURAL ENGINEER STATE OF ILLINOIS

I certify that to the best of my 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 "A.A.S.H.T.O. Standard Specifications For Highway Bridges".

Mark A Henderson 3/15/06
Expiration Date 11/30/2006

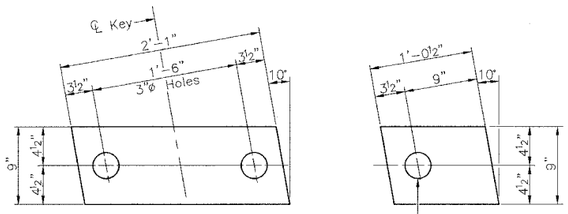
GENERAL PLAN & ELEVATION
T.R. 137 OVER PIASA CREEK
SECTION 04-07118-00-BR
JERSEY COUNTY

FILE NAME: d:\137bff.dgn 3/15/06

ALLEN HENDERSON & ASSOCIATES, INC. CONSULTING CIVIL AND STRUCTURAL ENGINEERS SPRINGFIELD, IL. PHONE: (217) 544-8033

RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
T.R. 137	*	JERSEY	9	5
FEDERAL AID PROJECT BROS-083(038)				

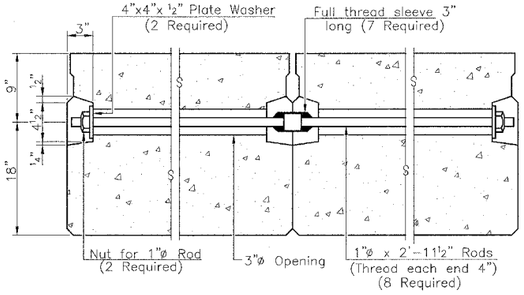
* 04-07118-00-BR
CONTRACT NO. 97277



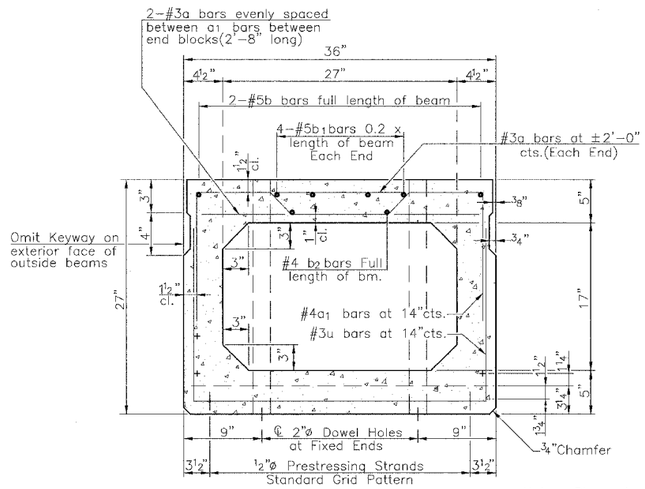
FABRIC BEARING PAD
Interior Wo
(12 Required)

FABRIC BEARING PAD
Exterior W
(8 Required)

FIXED

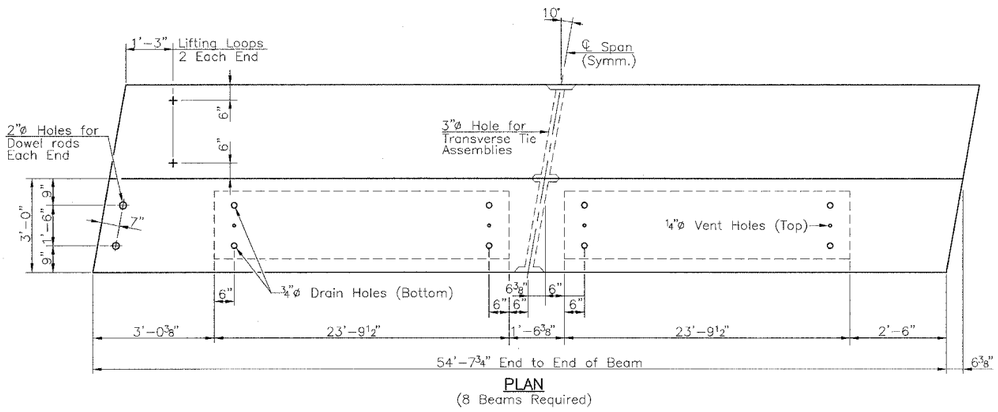


TYPICAL TRANSVERSE TIE ASSEMBLY

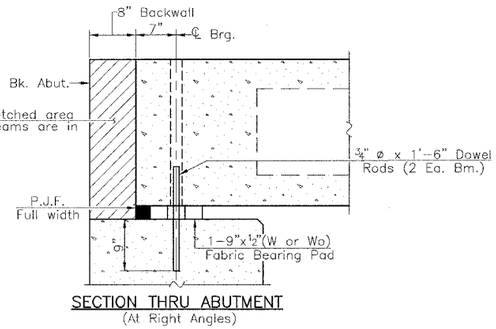


TYPICAL SECTION
13-½"ø Strands, Each Strand Stressed to 30,900 Lbs.
7-Strands 1¾" up, 4 Strands 3¼" up
2 Strands 4½" up.

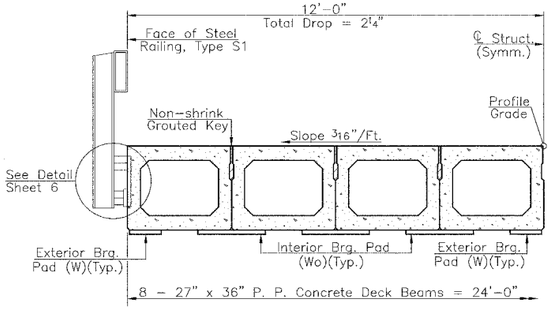
Note: Place strands symmetrically about ℄ of beam



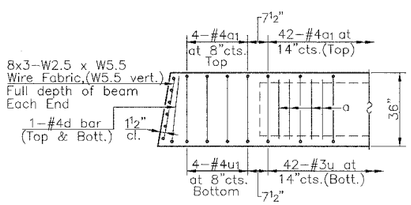
PLAN
(8 Beams Required)



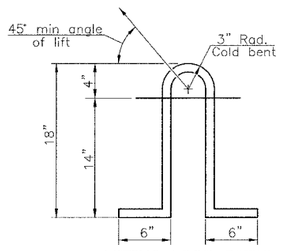
SECTION THRU ABUTMENT
(At Right Angles)



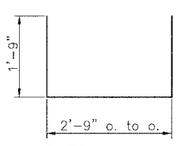
HALF CROSS SECTION



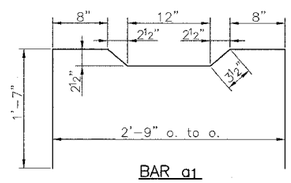
END PLAN



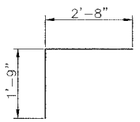
LIFTING LOOP DETAIL



BARS u & u1



BAR a1



BAR d

NOTES

Prestressing steel shall be uncoated high strength, low-relaxation 7-wire strand, Grade 270.

The nominal diameter shall be ½" and the nominal cross-sectional area shall be 0.153 sq. in.

Lifting loops shall be 2-½" diameter 270 ksi strands, as shown.

Non-prestressing steel shall conform to AASHTO M-31, M-42 or M-53, Grade 60.

The bearing seat surfaces shall be adjusted by shimming to assure firm and even bearing. Two ⅛" fabric adjusting shims of the dimensions of the Exterior Bearing Pad shall be provided for each bearing.

Keyway surfaces shall be cleaned to remove form oil or other bond breaking material prior to shipment of the beams. Cleaning shall be done by sandblasting the keyway areas between top of the beams and the bottom edge of the key.

Required Release Strength, f'ci, shall be 4000 p.s.i.

The 1"ø rods in the transverse tie assembly shall be tightened to a snug fit and the threads set. Pockets that receive transverse tie bar on outside shall be filled with grout after transverse tie assembly is in place.

Corrosion Inhibitor, as covered in the Special Provisions, shall be used in the concrete for Precast Prestressed Concrete Deck beams.

Rail post anchor devices shall be cast into exterior face of outside beams as shown on Sheet No. 6.

BILL OF MATERIAL

BAR	NO.	SIZE	LENGTH	SHAPE
Precast Prestressed Concrete Deck Beams (27" Depth)			Sq. Ft.	1312

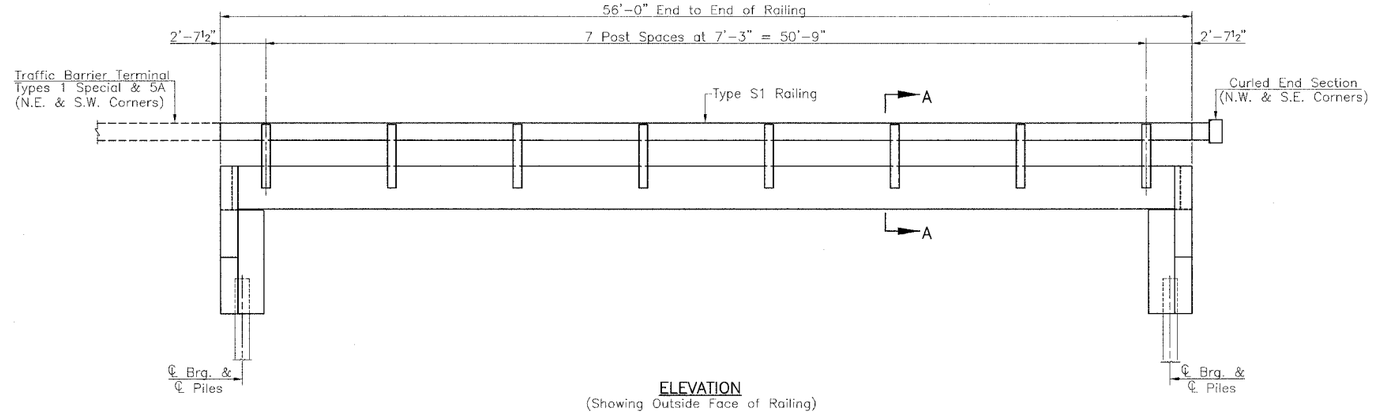
SUPERSTRUCTURE
T.R. 137 OVER PIASA CREEK
SECTION 04-07118-00-BR
JERSEY COUNTY

FILE NAME: JC137SW (REV. 3/14/06)

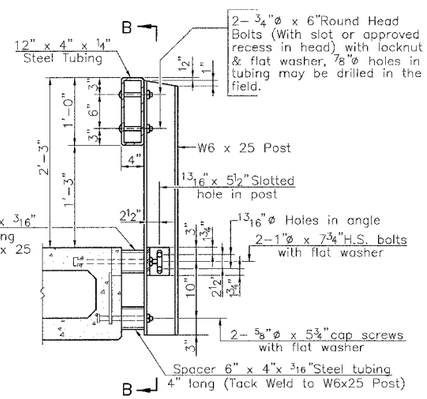
RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
T.R. 137	*	JERSEY	9	6
FEDERAL AID PROJECT BROS-083(038)				

* 04-07118-00-BR

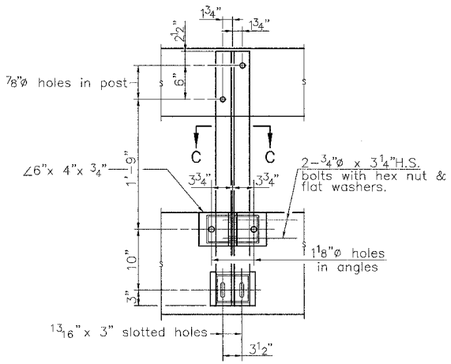
CONTRACT NO. 97277



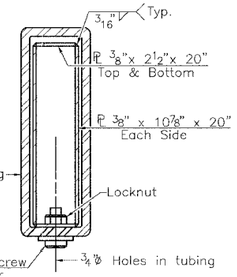
ELEVATION
(Showing Outside Face of Railing)



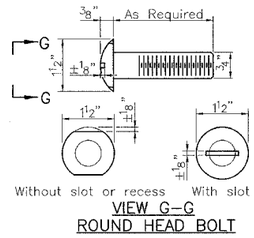
SECTION A–A



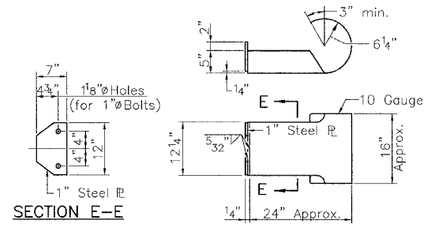
SECTION B–B



SECTION AT RAIL SPLICE



VIEW G–G
ROUND HEAD BOLT



SECTION E–E

CURLED END SECTION DETAILS (4 Required)

NOTES

Hollow structural steel tubing shall conform to the requirements of A.S.T.M. A–500 Grade B Structural Steel Tubing and shall meet the longitudinal CVN requirements of 15 ft–lbs at 0° F.

All other steel shapes and plates shall conform to the requirements of A.A.S.H.T.O. M–270 Grade 36 except posts and angles shall conform to A.A.S.H.T.O. M–270, Grade 50.

Bolts, cap screws, and nuts shall conform to the requirement of A.S.T.M. designation A–307 except for high strength bolts, nuts, and washers noted which shall conform to A.A.S.H.T.O. M–164.

All posts, railing, rail splices, anchor devices, angles and tube spacers shall be galvanized after shop fabrication in accordance with A.A.S.H.T.O. M–111 and A.S.T.M. A–385. Galvanized rail shall not be painted.

All bolts, nuts, cap screws, washers and lock washers shall be galvanized in accordance with A.A.S.H.T.O. M–232.

Railing shall be in accordance with Section 509 of the Standard Specifications, except as noted, and will be paid for at the contract unit price per foot for Steel Railing, Type S1.

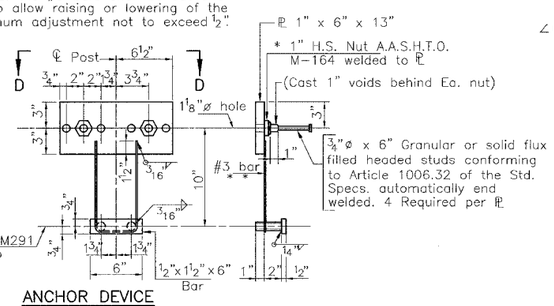
All field drilled holes shall be coated with an approved zinc rich paint before erection.

The lower portion of the post flange in contact with concrete shall receive two coats of asphalt paint conforming to Section 1060.07 Type II or place a ⅛" fabric bearing pad between the plate and concrete.

The ¾"ø high strength bolts used to connect the 6 x 4 x ¾ angles to the post shall be tightened in accordance with Article 505.04(f)(2) of the Standard Specifications. The 1"ø high strength bolts connecting the angles to the concrete shall be tightened to a snug fit and given an additional ⅛ turn. The ⅝"ø cap screws in bottom of posts shall be tightened to a snug fit only.

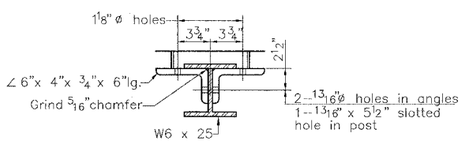
The cost of curled end sections shall be incidental to the contract unit price per foot for Steel Railing, Type S1.

** Whenever the lower insert assemblies interfere with strand locations, the #3 bars shall be cut and adjusted in order to allow raising or lowering of the lower inserts. Maximum adjustment not to exceed ½".

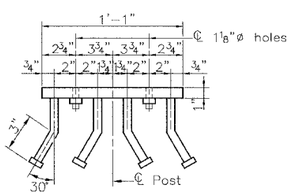


ANCHOR DEVICE

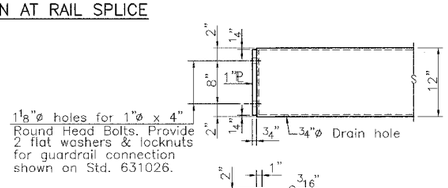
* Threaded areas shall be plugged or blocked off during casting of beam.



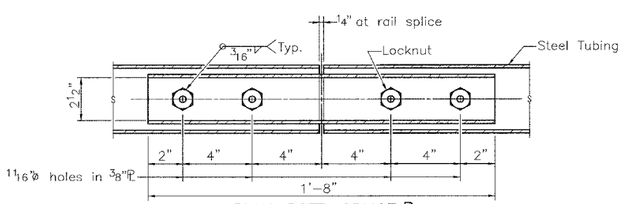
SECTION C–C



SECTION D–D



END OF RAIL DETAILS



PLAN–BOTT. SPLICE ℙ
TYPICAL

BILL OF MATERIAL

Item		Total
Steel Railing, Type S1	Foot	112

RAILING
T.R. 137 OVER PIASA CREEK
SECTION 04-07118-00-BR
JERSEY COUNTY

FILE NAME: JC137R (REV. 2/18/06)

NOTES

All exposed edges shall have standard ¾" chamfer.
Space reinforcement in cap to miss beam anchor dowels.
Wingwalls and Backwalls may, at the contractor's option, be cast monolithically.

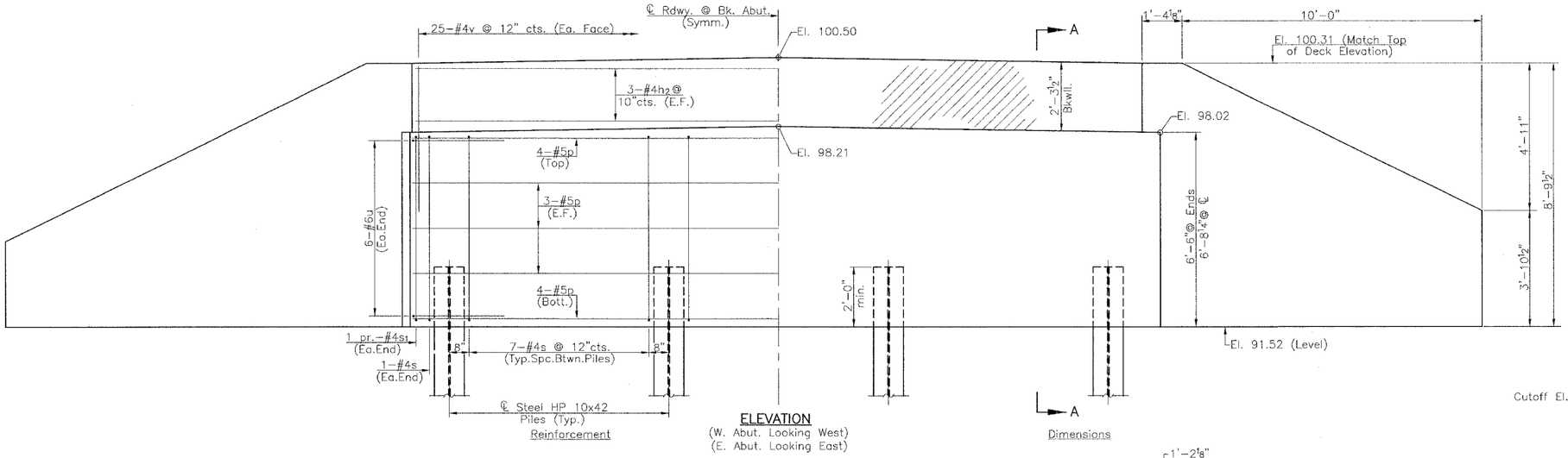
PILE DATA

	W. Abut.	E. Abut.
Type:	Steel HP 10x42	Steel HP 10x42
Capacity:	Refusal	Refusal
Est. Length:	30'	34'
No. Req'd.:	4	3 + 1 Test Pile

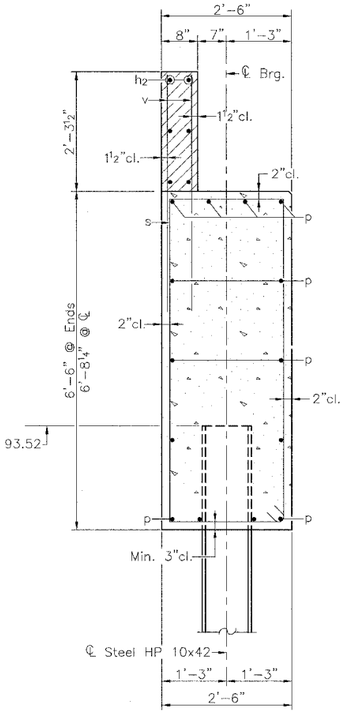
Note: Hatched area and wingwalls shall be poured after deck beams are anchored in place. Quantity for Concrete Structures is included in Bill of Material, this sheet.

RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
T.R. 137	*	JERSEY	9	7
FEDERAL AID PROJECT BROS-083(038)				

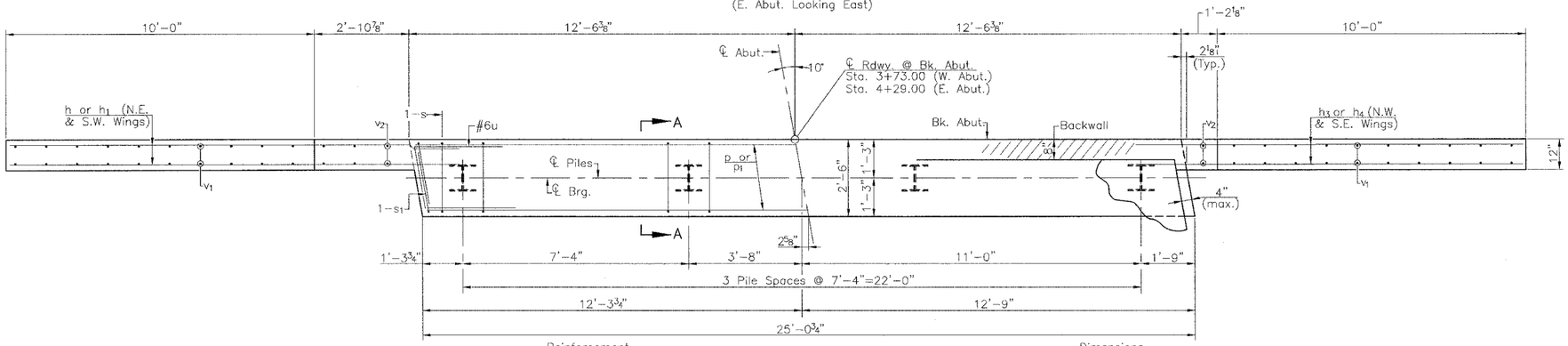
* 04-07118-00-BR
CONTRACT NO. 97277



ELEVATION
(W. Abut. Looking West)
(E. Abut. Looking East)



SECTION A-A

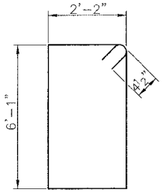


PLAN

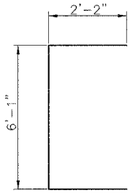
TWO ABUTMENTS BILL OF MATERIAL

BAR	NO.	SIZE	LENGTH	SHAPE
h	28	#6	15'-6"	——
h1	8	#5	12'-7"	——
h2	12	#4	27'-0"	——
h3	28	#6	13'-8"	——
h4	8	#5	10'-10"	——
p	28	#5	24'-8"	——
s	46	#4	17'-3"	⌐
s1	8	#4	10'-5"	⌐
u	24	#6	10'-3"	⊏
v	100	#4	3'-9"	——
v1	40	#4	11'-11"	——
v2	16	#4	8'-5"	——

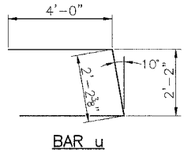
Concrete Structures	Cu. Yd.	45.5
Reinforcement Bars	Pound	3970
Furnishing Steel Piles HP10x42	Foot	222
Driving Steel Piles	Foot	222
Test Pile, Steel HP10x42	Each	1
Structure Excavation	Cu. Yd.	67



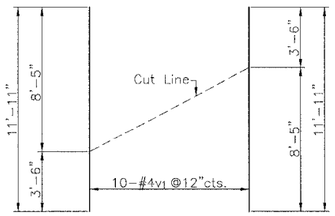
BAR s



BAR s1

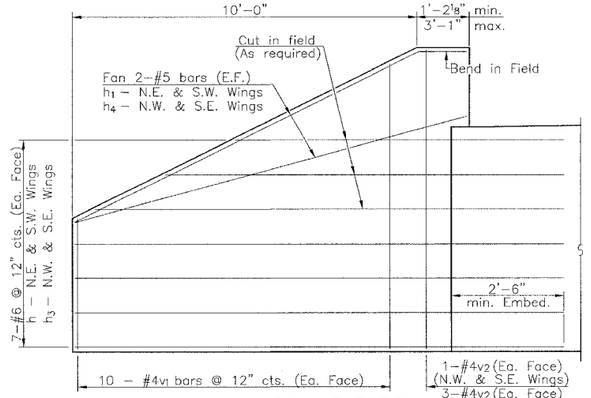


BAR u



v1 — BAR CUT DIAGRAM

Order v_1 bars full length: Layout in field according to diagram. Cut v_1 bars along cut line. Use remainder of each bar in opposite face.



WINGWALL ELEVATION
(Showing Reinforcement)
* See v_1-bar cut diagram

ABUTMENTS
T.R. 137 OVER PIASA CREEK
SECTION 04-07118-00-BR
JERSEY COUNTY

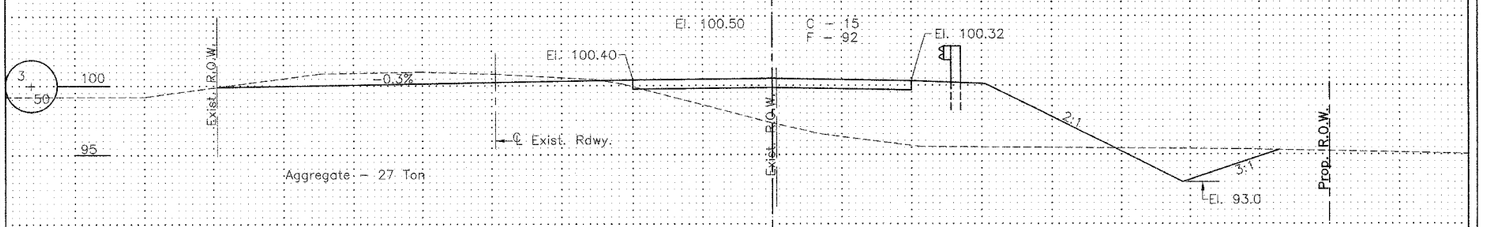
FILE NAME: 083138 (REV. 3/15/06)

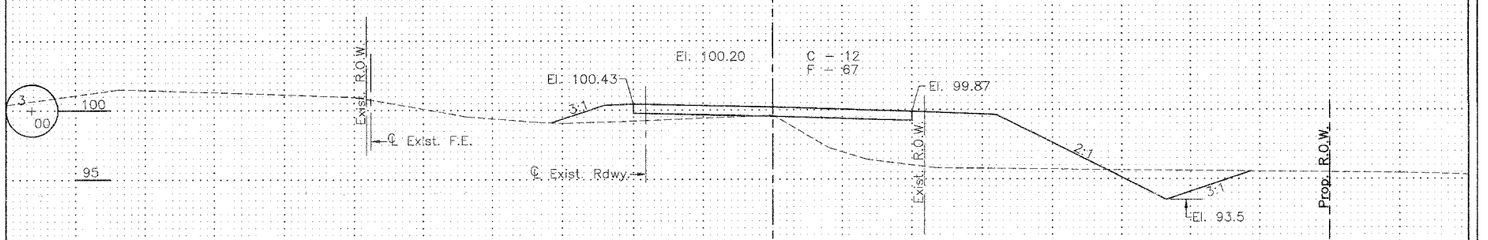
FILE NAME: 30137XS (REV. 3/9/09)

Bk. W. Abut. – Sta. 3+73

End Superelevation – Sta. 3+58.81

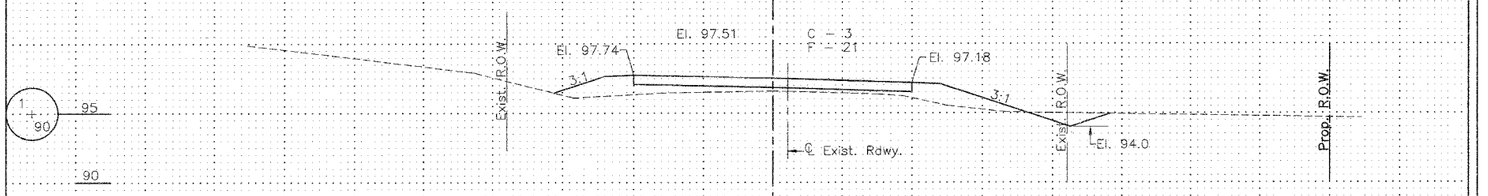
F.F. Lt. – Sta. 3+50



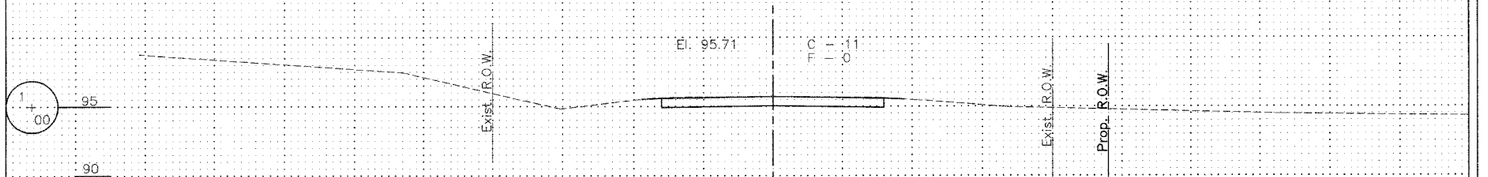


Begin Traffic Barrier Terminal Type 1
Special (Tangent) – Sta. 2+89.5 Rt.

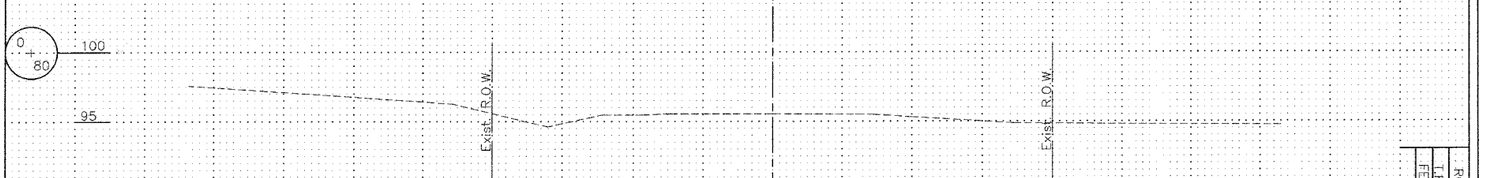
Begin Shoulder Widening – Sta. 2+55.5 Rt.



Begin Superelevation – Sta. 1+31.00



PROJECT BEGINS – Sta. 0+80



CROSS SECTIONS
T.R. 137 OVER PIASA CREEK
SECTION 04-07118-00-BR
JERSEY COUNTY

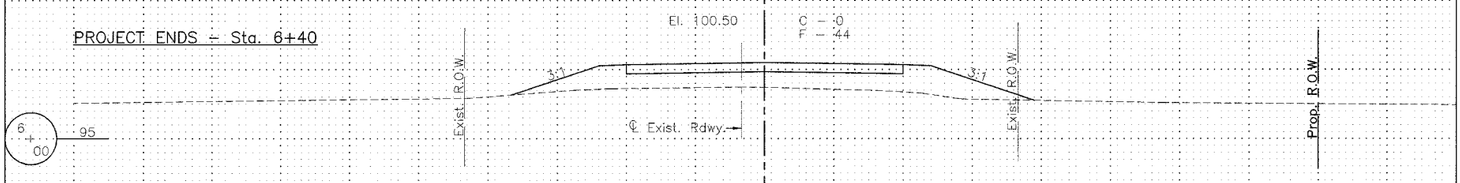
50 40 30 20 10 ℄ 10 20 30 40 50

ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
T.R. 137	*	JERSEY	9	8

FEDERAL AID PROJECT BROS-083(038)
* 04-07118-00-BR
CONTRACT NO. 97277

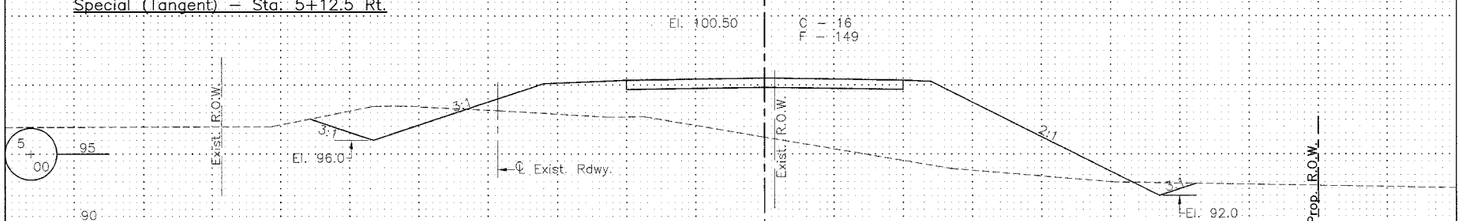
FILE NAME: JC137XS (REV. 3/6/08)

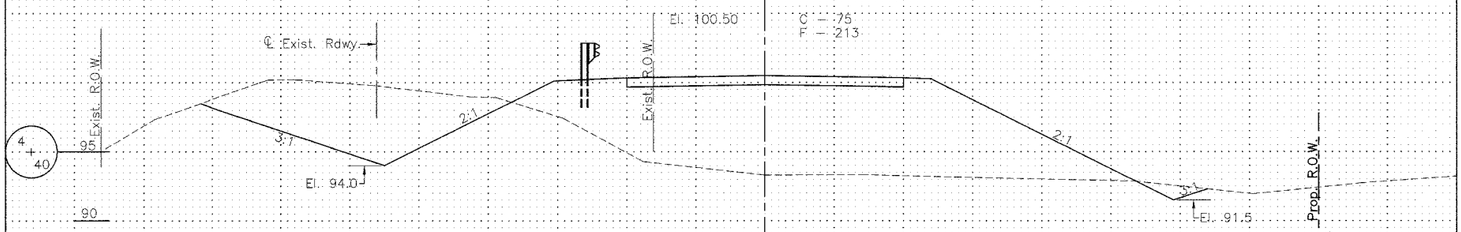
PROJECT ENDS – Sta. 6+40



End Shoulder Widening – Sta. 5+46.5 Rt.

End Traffic Barrier Terminal Type 1
Special (Tangent) – Sta. 5+12.5 Rt.





Bk. E. Abut. – Sta. 4+29

CROSS SECTIONS
T.R. 137 OVER PIASA CREEK
SECTION 04-07118-00-BR
JERSEY COUNTY

ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
T.R.137	*	JERSEY	9	9

FEDERAL AID PROJECT BROS-083(038)
* 04-07118-00-BR
CONTRACT NO. 97277

50 40 30 20 10 ℄ 10 20 30 40 50