

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
M.S. 2700	05-00186-00-BR 06-00001-00-BR	JEFFERSON BLUFORD	31	1
FED. ROAD DIST. NO.	ILLINOIS CONTRACT NO. 99297			

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HIGHWAY STANDARDS:

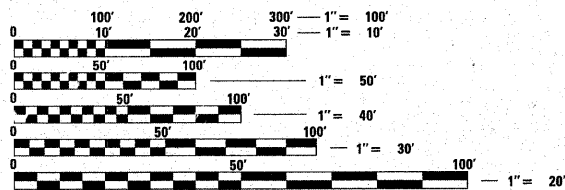
- 000001-04 STANDARD SYMBOLS, ABBREVIATIONS, AND PATTERNS
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- 630001-07 *STEEL PLATE BEAM Guardrail*
- 631026-03 TRAFFIC BARRIER TERMINAL, TYPE 5
- 702001-06 TRAFFIC CONTROL DEVICES
- BLR 21-6 TYPICAL APPLICATION OF TRAFFIC CONTROL DEVICES FOR CONSTRUCTION ON RURAL LOCAL HIGHWAYS
- BLR 23-1 TRAFFIC BARRIER TERMINAL TYPE 1

UTILITIES

TRI-COUNTY ELECTRIC COOPERATIVE, INC.
P.O. BOX 309
3906 BROADWAY STREET
MOUNT VERNON, ILLINOIS 62864
ATTN: SUE ECHOLS
618-244-5151

VILLAGE OF BLUFORD
GAS & WATER DEPARTMENT
1005 WEST 4TH STREET
BLUFORD, ILLINOIS 62814-1303

DESIGN FUNCTIONAL CLASSIFICATION:
LOCAL ROAD 0-250 ADT
DESIGN TRAFFIC: 150 ADT
DESIGN SPEED: 30 M.P.H.



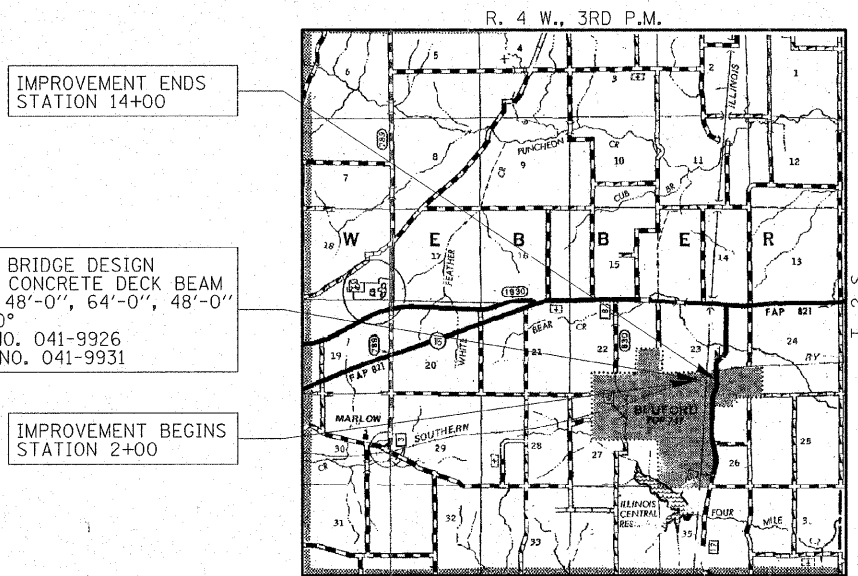
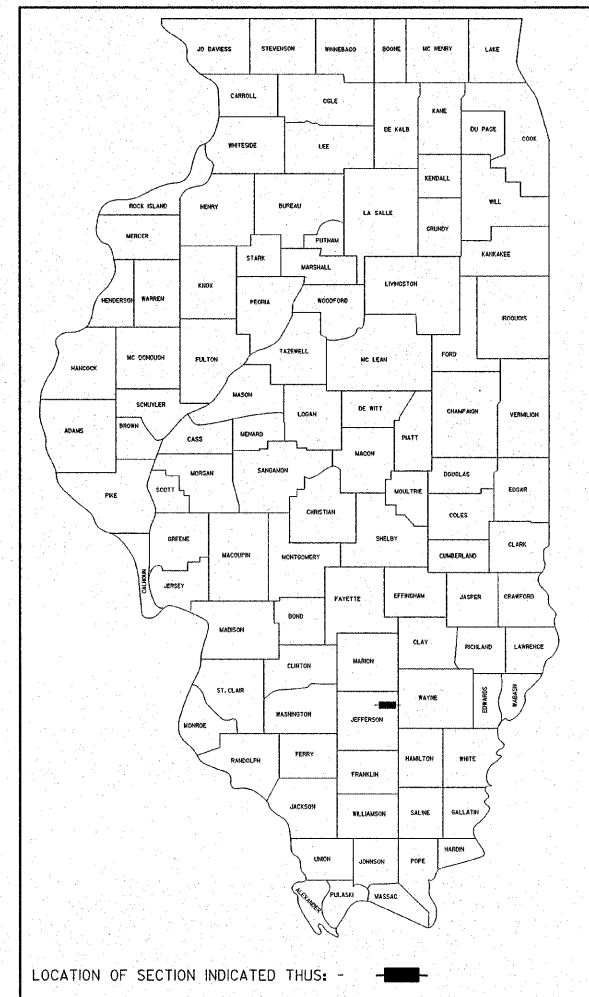
FULL SIZE PLANS HAVE BEEN PREPARED USING STANDARD ENGINEERING SCALES. REDUCED SIZED PLANS WILL NOT CONFORM TO STANDARD SCALES. IN MAKING MEASUREMENTS ON REDUCED PLANS, THE ABOVE SCALES MAY BE USED.

CONTRACT NO. 99297

JEFFERSON COUNTY / VILLAGE OF BLUFORD

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION DIVISION OF HIGHWAYS PLANS FOR PROPOSED G.C.P.F. / HIGHWAY BRIDGE PROGRAM

SECTIONS 05-00186-00-BR / 06-00001-00-BR JEFFERSON COUNTY / VILLAGE OF BLUFORD SHORT STREET / MS 2700 OVER C.N. / I.C. RAILROAD AT M.P. 40.8 PROJECT BROS-081(49) C-99-575-06



STA. 10+00 - SPECIAL BRIDGE DESIGN
PRECAST PRESTRESSED CONCRETE DECK BEAM
BRIDGE. THREE SPANS: 48'-0", 64'-0", 48'-0"
33'-0" DECK; SKEW = 0°
EXISTING STRUCTURE NO. 041-9926
PROPOSED STRUCTURE NO. 041-9931

LAYOUT

APPROXIMATE SCALE. 1" = 1 MILE
M.L. NET LENGTH OF SECTION = 1,200.00 FEET = 0.227 MILES
S.R. NET LENGTH OF SECTION = 249.77 FEET = 0.047 MILES
TOTAL = 0.275 MILES



AGENCY RESPONSIBLE FOR LETTING	
APPROVED	<i>March 27, 2007</i> <i>Steve Schurba</i> JEFFERSON COUNTY
APPROVED	<i>March 27, 2007</i> <i>William C. Johnson</i> VILLAGE OF BLUFORD
PASSED	<i>APRIL 4, 2007</i> <i>Dennis W. Hill</i> DISTRICT NINE ENGINEER OF LOCAL ROADS & STREETS
Releasing For Bid Based on Limited Review	<i>4-4, 2007</i> <i>Mary C. Lami</i> DEPUTY DIRECTOR OF HIGHWAYS REGION FIVE ENGINEER STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

DATE: *March 22, 2007*
BY: *Steven W. Megginson*
LICENSE EXPIRES: NOVEMBER 30, 2007



HAMPTON, LENZINI & RENWICK, INC.
CIVIL & STRUCTURAL ENGINEERS
LAND SURVEYORS
HLR
3085 STEVENSON DRIVE, SUITE 201
SPRINGFIELD, ILLINOIS 62703
(217) 546-3400
ELGIN • SPRINGFIELD
PROJECT NUMBER: 12-49-0005-1 | DATE: 03/21/07

SECTIONS 05-00186-00-BR / 06-00001-00-BR

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
M.S. 2700	05-00186-00-BR 06-00001-00-BR	JEFFERSON BLUFORD	31	2
FED. ROAD DIST. NO.	ILLINOIS CONTRACT NO. 99297			

GENERAL NOTES

- ALL CONSTRUCTION SHALL BE DONE IN ACCORDANCE WITH THE STATE OF ILLINOIS "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, ADOPTED JANUARY 1, 2007," THESE PLANS AND THE SPECIAL PROVISIONS INCLUDED IN THE CONTRACT DOCUMENTS.
- ALL CLEARING AND GRUBBING AND REMOVAL OF EXISTING DRAINAGE STRUCTURES SHALL BE CONSIDERED INCIDENTAL TO THE CONTRACT. THE REMOVAL OF THE EXISTING AGGREGATE BASE COURSE AND A-2 SURFACE WILL BE PAID FOR AS EARTH EXCAVATION. ALL BITUMINOUS MATERIAL SHALL BE PROPERLY DISPOSED OF AS APPROVED BY THE ENGINEER
- THE LOCATIONS OF EXISTING ELECTRIC POWER LINES, TELEPHONE LINES AND OTHER UTILITIES AS SHOWN ON THE PLANS ARE BASED ON CAREFUL FIELD INVESTIGATION AND THE BEST INFORMATION AVAILABLE, BUT THE LOCATIONS ARE NOT GUARANTEED. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO ASCERTAIN THEIR EXACT LOCATION FROM THE INDIVIDUAL UTILITY COMPANIES AND BY FIELD INSPECTION.
- THE CONTRACTOR SHALL PROTECT AND CAREFULLY PRESERVE ALL SECTION OR SUBSECTION MONUMENTS UNTIL THE OWNER, HIS AGENT, PROFESSIONAL LAND SURVEYOR HAS WITNESSED OR OTHERWISE REFERENCED THEIR LOCATION.
- THE REVISION NUMBER INDICATED FOR THE STANDARDS LISTED IN THE INDEX OF SHEETS SHALL BE USED IN THE CONSTRUCTION OF THIS SECTION.
- THE FOLLOWING RATES OF APPLICATION HAVE BEEN USED IN CALCULATING PLAN QUANTITIES
 AGGREGATE SURF. CSE. 2.05 TON/CU YD
 RIPRAP SPECIAL 1.75 TON/CU YD
- TREES WITHIN THE RIGHT-OF-WAY WHICH INTERFERE WITH CONSTRUCTION SHALL BE REMOVED ONLY AT THE DIRECTION OF THE ENGINEER. ESTIMATED QUANTITY: TREE REMOVAL (6-15 UNITS) = 300 UNITS
 TREE REMOVAL (OVER 15 UNITS) = 40 UNITS
- THE CONTRACTOR SHALL CONSULT THE ENGINEER IN REGARD TO THE EXACT LENGTH OF PIPE CULVERTS BEFORE ORDERING THESE ITEMS.

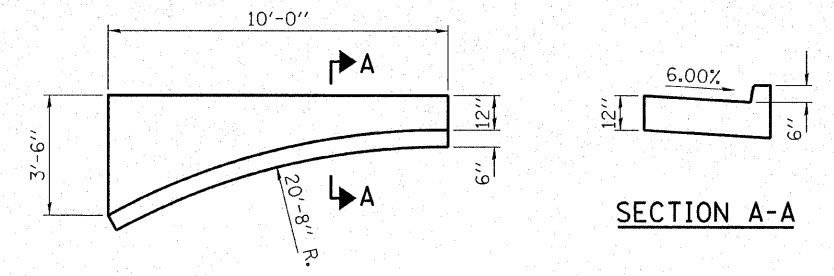
SUMMARY OF QUANTITIES

		CONSTRUCTION CODE X180-5B	
CODE NO	ITEM	UNIT	QUANTITY
20100110	TREE REMOVAL (6 TO 15 UNITS DIAMETER)	UNIT	300
20100210	TREE REMOVAL (OVER 15 UNITS DIAMETER)	UNIT	40
20200100	EARTH EXCAVATION	CU YD	970
20200200	ROCK EXCAVATION	CU YD	15
20400800	FURNISHED EXCAVATION	CU YD	4,380
> 25001000	SEEDING, CLASS 2 (SPECIAL)	ACRE	1.3
28000250	TEMPORARY EROSION CONTROL SEEDING	POUND	260
28000300	TEMPORARY DITCH CHECKS	EACH	19
28000400	PERIMETER EROSION BARRIER	FOOT	810
40200800	AGGREGATE SURFACE COURSE, TYPE B	TON	1,625
> 40201000	AGGREGATE FOR TEMPORARY ACCESS	TON	100
40300300	BITUMINOUS MATERIALS (COVERS AND SEAL COATS)	GALLON	1000
40300500	COVER COAT AGGREGATE	TON	84
40300600	SEAL COAT AGGREGATE	TON	42
42001300	PROTECTIVE COAT	SQ YD	100
42400100	PORTLAND CEMENT CONCRETE SIDEWALK, 4 INCH	SQ FT	552
48101200	AGGREGATE SHOULDERS, TYPE B	TON	110
50100100	REMOVAL OF EXISTING STRUCTURES	EACH	1
50200100	STRUCTURE EXCAVATION	CU YD	120
50300225	CONCRETE STRUCTURES	CU YD	175.0
50300255	CONCRETE SUPERSTRUCTURE	CU YD	44.6
50300280	CONCRETE ENCASEMENT	CU YD	2.6
50400405	PRECAST PRESTRESSED CONCRETE DECK BEAMS (21" DEPTH)	SQ FT	3,168
50400505	PRECAST PRESTRESSED CONCRETE DECK BEAMS (27" DEPTH)	SQ FT	2,112
50500505	STUD SHEAR CONNECTORS	EACH	20
50800105	REINFORCEMENT BARS	POUND	40,940
50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	4,320
50900105	ALUMINUM RAILING, TYPE L	FOOT	160
50901050	STEEL RAILING, TYPE SM	FOOT	165
> 51100500	BITUMINOUS COATED AGGREGATE SLOPEWALL 6"	SQ YD	481
51201400	FURNISHING STEEL PILES HP10X42	FOOT	230
51202305	DRIVING PILES	FOOT	230
51203400	TEST PILE STEEL HP10X42	EACH	1
51500100	NAME PLATES	EACH	1
542A0220	PIPE CULVERTS, CLASS A, TYPE 1 15"	FOOT	272
542A1909	PIPE CULVERTS, CLASS A, TYPE 3 24"	FOOT	106
54213660	PRECAST REINFORCED CONCRETE FLARED END SECTIONS, 15"	EACH	3
54213669	PRECAST REINFORCED CONCRETE FLARED END SECTIONS, 24"	EACH	2
59300100	CONTROLLED LOW STRENGTH MATERIAL	CU YD	37
60236200	INLETS, TYPE A, TYPE 8 GRATE	EACH	1
60603800	COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.12	FOOT	108
> * 63000005	STEEL PLATE BEAM GUARDRAIL, TYPE B	FOOT	50
> * 63100070	TRAFFIC BARRIER TERMINAL, TYPE 5	EACH	2
> * 63100075	TRAFFIC BARRIER TERMINAL, TYPE 5A	EACH	2
> 67100100	MOBILIZATION	L SUM	1
* 78201000	TERMINAL MARKER - DIRECT APPLIED	EACH	4
> Z0048665	RAILROAD PROTECTIVE LIABILITY INSURANCE	L SUM	1
> * LR631020	TRAFFIC BARRIER TERMINAL, TYPE 1	EACH	4

> SEE SPECIAL PROVISIONS
 * SPECIALTY ITEMS

EARTHWORK SCHEDULE						
LOCATION	EARTH EXCAVATION (CU YD)	SHRINKAGE FACTOR	PERCENT USED	AVAILABLE EXCAVATION (CU YD)	EMBANKMENT REQUIRED (CU YD)	EARTHWORK BALANCE (CU YD)
STA. 2+00 TO STA. 9+19.25	700	25%	100%	525	2,102	-1,576
STA. 9+19.25 TO STA. 10+80.75	58	25%	100%	43	177	-134
STA. 10+80.75 TO STA. 14+00	115	25%	100%	87	2,395	-2,308
STA. 99+50 TO STA. 101+79	93	25%	100%	69	320	-250
ENTRANCES					110	-110
TOTAL	966			724	5,104	-4,379
USE:	970					4,380

* AVAILABLE EXCAVATION = EXC. x (1-SHRINKAGE FACTOR) x % USED (FURN EXC)



B6.12 GUTTER OUTLET
 COST INCLUDED PER FOOT FOR CONC. CURB AND GUTTER TYPE B-6.12

TRAFFIC BARRIER TERMINAL, TYPE 5		
LOCATION		EACH
RT. STA. 9+04.58 TO STA. 9+19.25		1
RT. STA. 10+80.75 TO STA. 10+95.42		1
TOTAL		2

TRAFFIC BARRIER TERMINAL, TYPE 5A		
LOCATION		EACH
LT. STA. 9+04.58 TO STA. 9+17.83		1
LT. STA. 10+82.17 TO STA. 10+95.42		1
TOTAL		2

STEEL PLATE BEAM GUARDRAIL, TYPE B		
LOCATION		FOOT
RT. STA. 8+92.1 TO STA. 9+04.6		12.5
LT. STA. 8+92.1 TO STA. 9+04.6		12.5
RT. STA. 10+95.4 TO STA. 11+07.9		12.5
LT. STA. 10+95.4 TO STA. 11+07.9		12.5
TOTAL		50

TRAFFIC BARRIER TERMINAL, TYPE 1		
LOCATION		EACH
RT. STA. 8+67.1 TO STA. 8+92.1		1
LT. STA. 8+67.1 TO STA. 8+92.1		1
RT. STA. 11+07.9 TO STA. 11+32.9		1
LT. STA. 11+07.9 TO STA. 11+32.9		1
TOTAL		4

PORTLAND CEMENT CONCRETE SIDEWALK			
LOCATION	WIDTH		SQ FT
RT. & LT. STA. 8+65.0 TO STA. 9+19.25	5'-1"		276
RT. & LT. STA. 10+80.75 TO STA. 11+35.0	5'-1"		276
TOTAL			552

AGGREGATE SHOULDERS, TYPE B		
LOCATION		TON
RT. & LT. STA. 8+25 TO STA. 9+19		55
RT. & LT. STA. 10+80 TO STA. 11+35		55
TOTAL		110

COMB. CONC. CURB & GUTTER, TYPE B-6.12		
LOCATION		FOOT
RT. & LT. STA. 8+65.0 TO STA. 9+19.25		54
RT. & LT. STA. 10+80.75 TO STA. 11+35.0		54
TOTAL		108

HAMPTON, LENZINI & RENWICK, INC.
 CIVIL & STRUCTURAL ENGINEERS
 LAND SURVEYORS

HLR

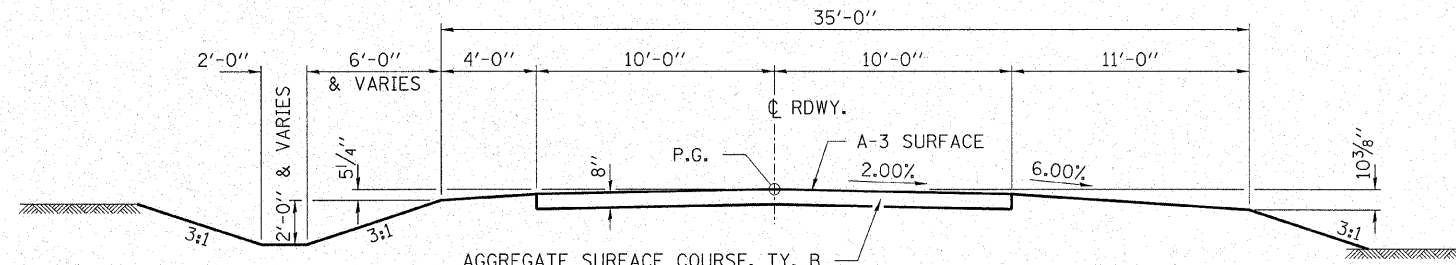
3085 STEVENSON DRIVE, SUITE 201
 SPRINGFIELD, ILLINOIS 62703
 (217) 546-3400

ELGIN • SPRINGFIELD

PROJECT NUMBER: 12-49-0005-1 DATE: 03/21/07
 DESIGNED: J.W.F. CHECKED: S.W.M. DRAWN: D.B.

SUMMARY OF QUANTITIES AND GENERAL NOTES
 SECTIONS 05-00186-00-BR / 06-00001-00-BR
 VILLAGE OF BLUFORD
 JEFFERSON COUNTY

ROUTE No.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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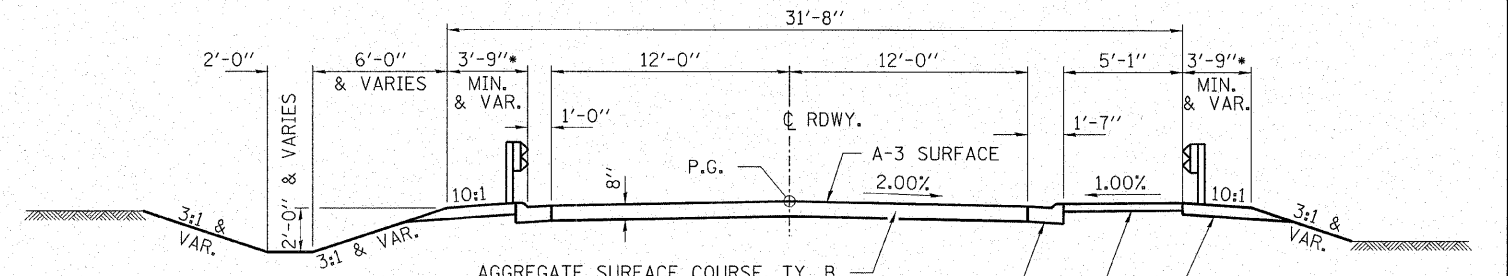
SUGGESTED CUT SECTION
CONSTRUCT AS SHOWN IN
STATION CROSS SECTIONS

SUGGESTED FILL SECTION
CONSTRUCT AS SHOWN IN
STATION CROSS SECTIONS

TYPICAL CROSS SECTION

STA. 7+20 TO STA. 8+25
STA. 11+75 TO STA. 12+55

TRANSITION PROPOSED SECTION FROM
STA. 8+25 TO STA. 8+65 AND FROM
STA. 11+35 TO STA. 11+75.



SUGGESTED CUT SECTION
CONSTRUCT AS SHOWN IN
STATION CROSS SECTIONS

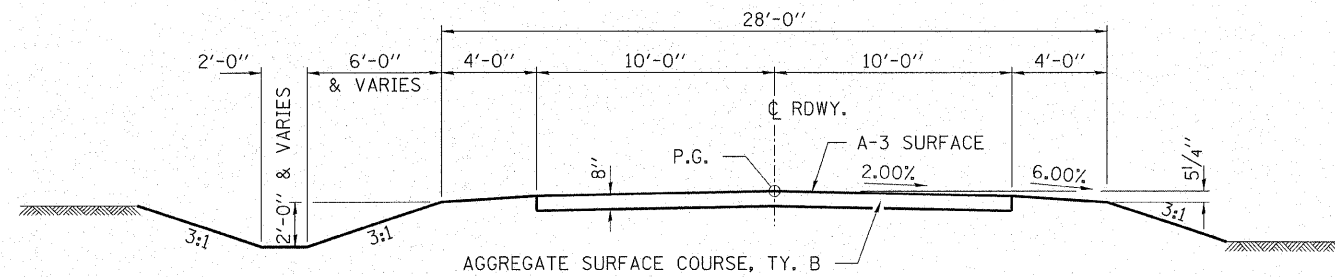
SUGGESTED FILL SECTION
CONSTRUCT AS SHOWN IN
STATION CROSS SECTIONS

TYPICAL CROSS SECTION

STA. 8+65.0 TO STA. 9+19.25
STA. 10+80.75 TO STA. 11+35.0

TRANSITION TO ADJACENT TYPICAL CROSS SECTION
TO BE CONSTRUCTED FROM STA. 8+25 TO STA. 8+65
AND STA. 11+35 TO STA. 11+75.

* SEE STD. 630301 FOR WIDENING
AT TERMINAL SECTIONS.



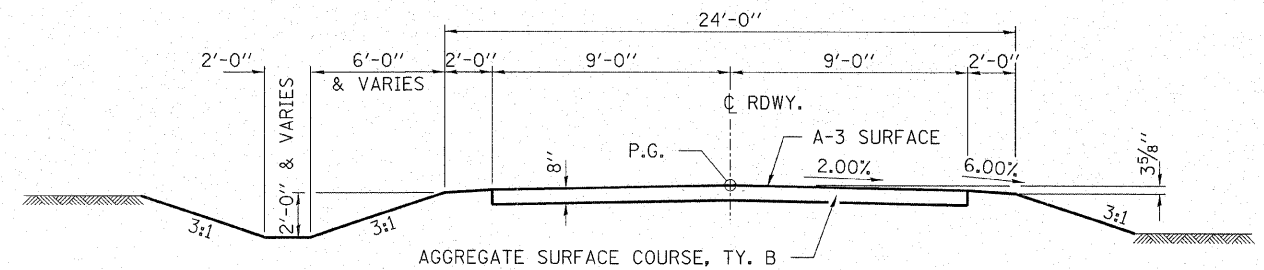
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CONSTRUCT AS SHOWN IN
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SUGGESTED FILL SECTION
CONSTRUCT AS SHOWN IN
STATION CROSS SECTIONS

TYPICAL CROSS SECTION

STA. 2+50 TO STA. 7+20
STA. 12+55 TO STA. 14+00

TRANSITION FROM THE PROPOSED ROADWAY TO
THE EXISTING ROADWAY IS TO BE CONSTRUCTED
FROM STA. 2+00 TO STA. 2+50 AND FROM
STA. 13+50 TO STA. 14+00.



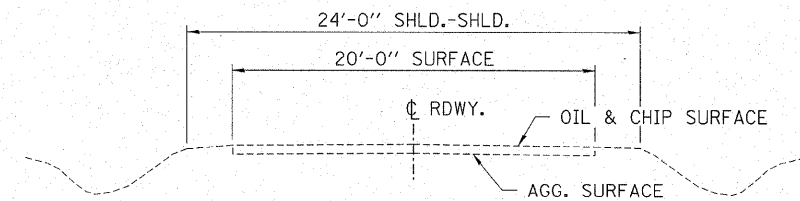
SUGGESTED CUT SECTION
CONSTRUCT AS SHOWN IN
STATION CROSS SECTIONS

SUGGESTED FILL SECTION
CONSTRUCT AS SHOWN IN
STATION CROSS SECTIONS

TYPICAL CROSS SECTION - SIDE ROAD

STA. 99+50 TO STA. 101+89.77

TRANSITION FROM THE PROPOSED ROADWAY TO
THE EXISTING ROADWAY IS TO BE CONSTRUCTED
FROM STA. 99+50 TO STA. 100+00.



EXISTING CROSS SECTION

HAMPTON, LENZINI & RENWICK, INC.
CIVIL & STRUCTURAL ENGINEERS
LAND SURVEYORS

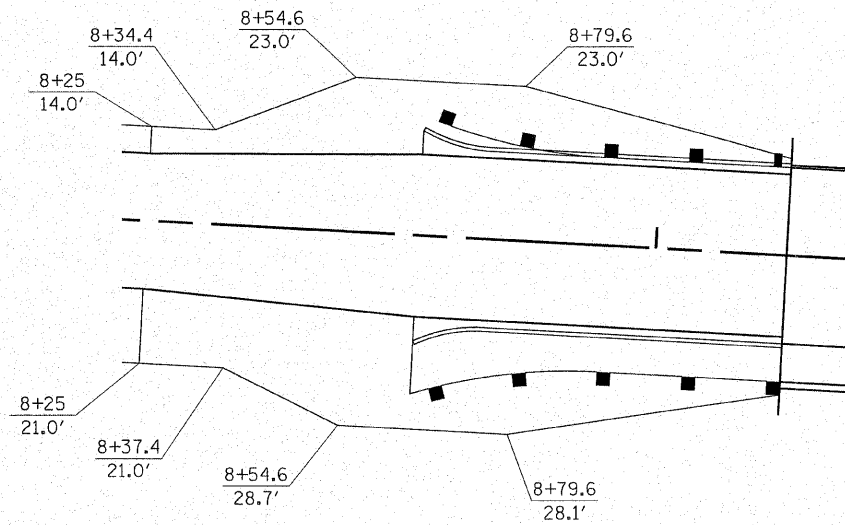
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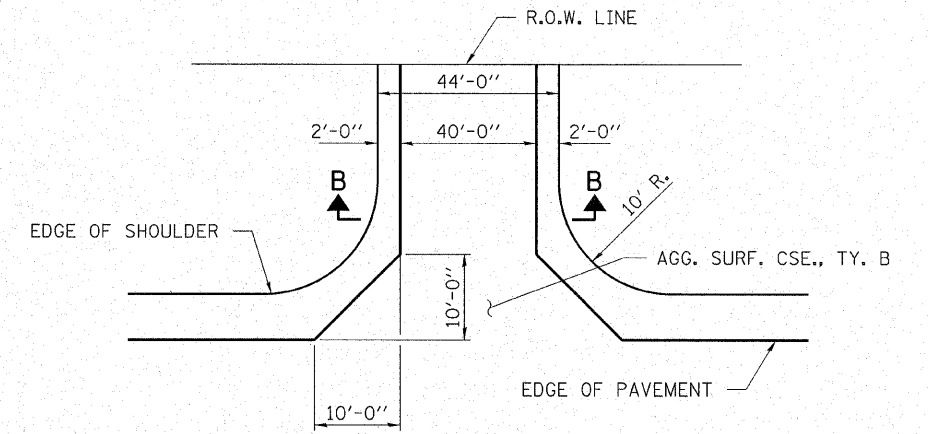
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TYPICAL CROSS SECTIONS
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VILLAGE OF BLUFORD
JEFFERSON COUNTY

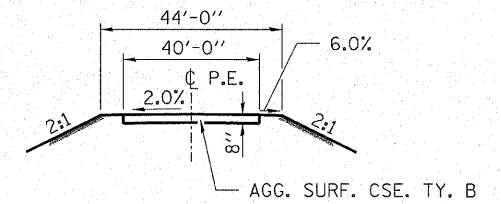
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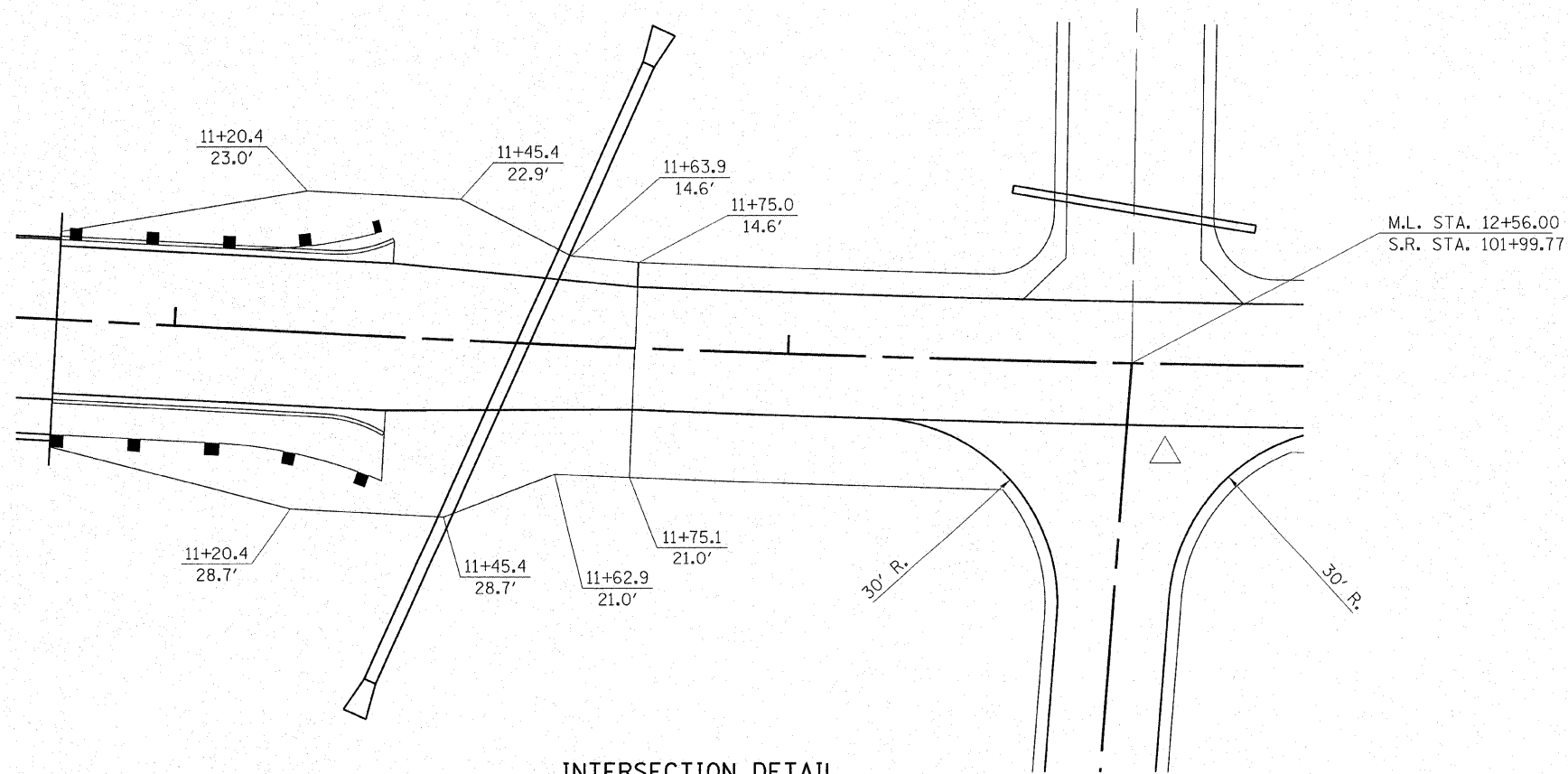
GUARDRAIL WIDENING DETAIL



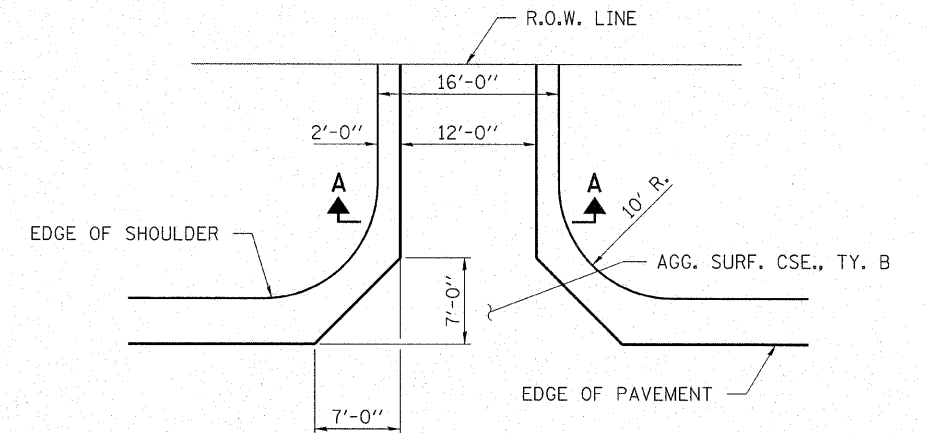
COMMERCIAL ENTRANCE DETAIL



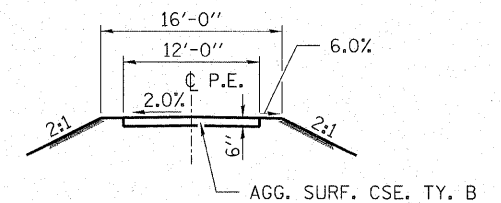
SECTION B-B



INTERSECTION DETAIL



PRIVATE ENTRANCE DETAIL



SECTION A-A

HAMPTON, LENZINI & RENWICK, INC.
 CIVIL & STRUCTURAL ENGINEERS
 LAND SURVEYORS

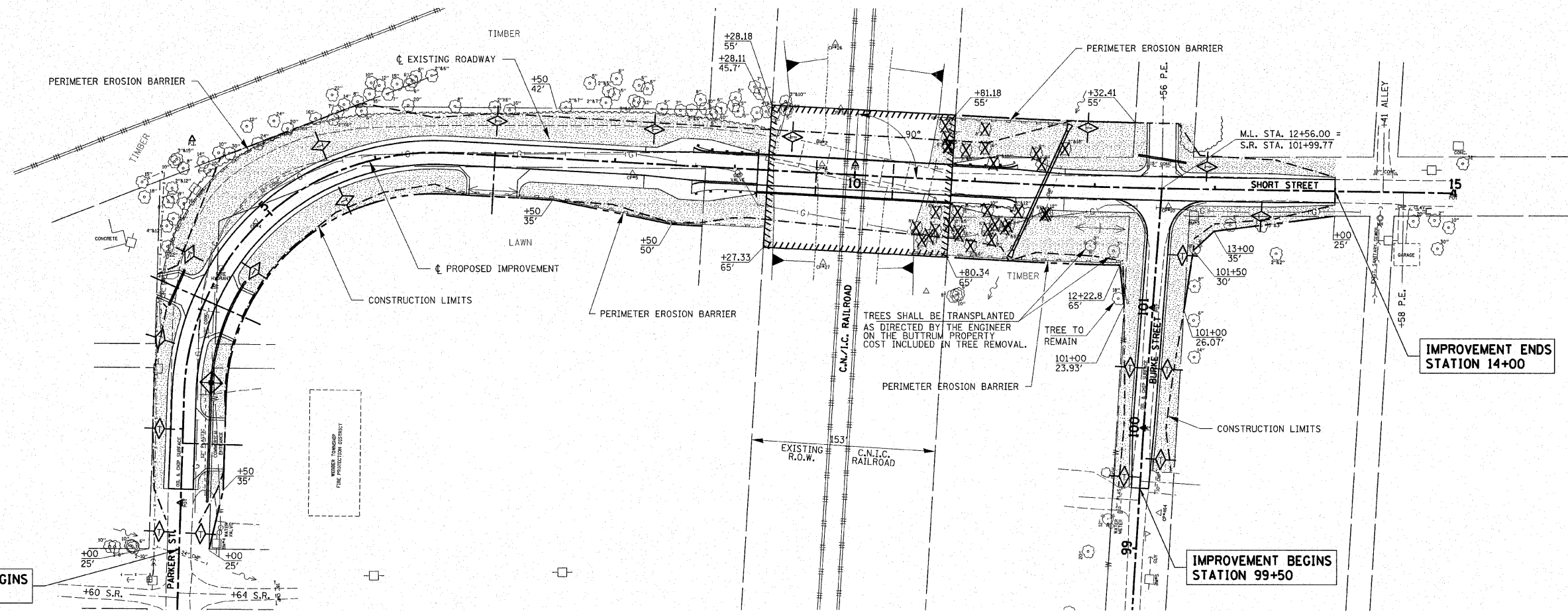
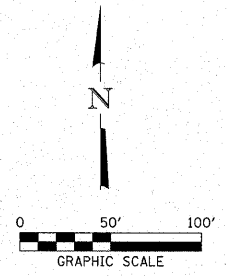
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EROSION CONTROL PLAN & STORMWATER POLLUTION PREVENTION PLAN

THIS PROJECT DISTURBS 1.6 ACRES OF TOTAL LAND AREA. COMPLIANCE WITH THE NATIONAL POLLUTION DISCHARGE ELIMINATION SYSTEM (NPDES) STORMWATER PERMIT IS ONLY NECESSARY IF A PROJECT DISTURBS 1 OR MORE ACRES OF TOTAL LAND AREA; AN NPDES STORMWATER PERMIT WILL BE REQUIRED FOR THIS PROJECT.



IMPROVEMENT ENDS
STATION 14+00

IMPROVEMENT BEGINS
STATION 2+00

IMPROVEMENT BEGINS
STATION 99+50

GENERAL NOTES FOR SOIL EROSION CONTROL

- SOIL EROSION AND SEDIMENT CONTROL FEATURES SHALL BE CONSTRUCTED PRIOR TO THE COMMENCEMENT OF UPLAND DISTURBANCE. SOIL DISTURBANCE SHALL BE CONDUCTED IN SUCH A MANNER TO MINIMIZE EROSION. SOIL STABILIZATION MEASURES SHALL CONSIDER THE TIME OF YEAR, SITE CONDITIONS AND THE USE OF TEMPORARY OR PERMANENT MEASURES.
- THE EROSION CONTROL MEASURES INDICATED ON THE PLANS ARE THE MINIMUM REQUIREMENTS. THE CONTRACTOR SHALL ALSO TAKE SPECIAL NOTE TO THE CONTRACT SPECIAL PROVISION "EROSION CONTROL PLAN". ADDITIONAL MEASURES MAY BE REQUIRED, AS DIRECTED BY THE ENGINEER. ALL MEASURES SHALL BE IN PLACE WITHIN 4 DAYS OF DISTURBANCE.
- ALL TEMPORARY EROSION CONTROL MEASURES MUST BE MAINTAINED AND IMMEDIATELY REPLACED AS NEEDED AND AS DIRECTED BY THE ENGINEER. THE CONTRACTOR WILL BE RESPONSIBLE FOR ALL INSPECTION AND REPAIR. THE CONTRACTOR SHALL INSPECT AND COMPLETE MAINTENANCE OF ALL ITEMS A MINIMUM OF EVERY 7 DAYS AND WITHIN 24 HOURS OF A ONE-HALF INCH RAINFALL. ALL TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES SHALL BE REMOVED WITHIN 30 DAYS AFTER FINAL SEEDING IS ACHIEVED.
- PERIMETER EROSION BARRIER SHALL BE INSTALLED AT LOCATIONS SPECIFIED IN THE PLANS AT 5 FEET OUTSIDE THE TOE OF SLOPE OR INSIDE THE RIGHT-OF-WAY WHICHEVER IS CLOSER TO THE CENTERLINE, OR AS DIRECTED BY THE ENGINEER PRIOR TO THE START OF ANY EARTHWORK, CULVERT, OR STORM SEWER CONSTRUCTION. STAKES SHALL BE PLACED AT A MINIMUM OF 5 FOOT INTERVALS. SEE STD. 280001.
- THE PERIMETER EROSION BARRIER SHALL BE REMOVED WITHIN 30 DAYS AFTER ALL DISTURBED AREAS HAVE BEEN STABILIZED WITH VEGETATION. AFTER THE PERIMETER EROSION BARRIER IS REMOVED, ALL AREAS DAMAGED BY THE FENCE INSTALLATION SHALL BE RESTORED BY THE CONTRACTOR.
- THE FENCE INSTALLATION, MAINTENANCE, REMOVAL AND THE RESTORATION OF THE AREA DISTURBED BY THE FENCE INSTALLATION IS INCLUDED IN COST OF THE PAY ITEM PERIMETER EROSION BARRIER.
- TEMPORARY DITCH CHECKS SHALL BE CONSTRUCTED AS PER CONTRACT SPECIAL PROVISIONS ON 100 FEET CENTERS AS SHOWN HEREON OR AS DIRECTED BY THE ENGINEER. THE DITCH CHECKS SHALL BE INSTALLED IMMEDIATELY AS GRADING PROGRESSES THROUGH THE PROJECT. THE PAY ITEM FOR TEMPORARY DITCH CHECK SHALL INCLUDE THE COST OF INSTALLATION, MAINTENANCE AND REMOVAL. ONLY AGGREGATE DITCH CHECKS SHALL BE USED. SEE STD. 280001.
- REMOVAL OF TRAPPED SEDIMENT SHALL BE PAID FOR AS EARTH EXCAVATION. SEDIMENT SHALL BE REMOVED WHEN SILTATION REACHES 50% CAPACITY OF STRUCTURE. SEE APPLICABLE STANDARDS, SPECIFICATIONS, AND CONTRACT SPECIAL PROVISIONS.
- THE CONTRACTOR SHALL CLEAN UP AND GRADE THE WORK AREA AS THE PROJECT PROGRESSES TO ELIMINATE THE CONCENTRATION OF RUNOFF. THE PAVEMENT SHALL BE CLEANED DAILY TO REMOVE EARTH MATERIAL TO THE SATISFACTION OF THE ENGINEER.
- THE CONTRACTOR SHALL CONTACT THE COUNTY HIGHWAY DEPARTMENT AS SOON AS INITIAL EROSION CONTROL PRACTICES ARE INSTALLED.
- TEMPORARY SEEDING SHALL BE COMPLETED ACCORDING TO THE ITEM TEMPORARY EROSION CONTROL SEEDING ON ALL AREAS THAT WILL NOT BE BROUGHT TO FINAL GRADE OR ON WHICH CONSTRUCTION WILL BE STOPPED FOR A PERIOD OF MORE THAN 15 WORKING DAYS.
- THE COST OF ALL REQUIRED TEMPORARY SEEDING SHALL BE PAID FOR AS PER THE ITEM TEMPORARY EROSION CONTROL SEEDING.
- ALL DISTURBED AREAS SHALL BE SEEDDED AS DIRECTED BY THE ENGINEER. FINAL SEEDING SHALL CONFORM TO SEEDING CLASS 2 (SPECIAL) AS PER IDOT STANDARD SPECIFICATIONS AND CONTRACT SPECIAL PROVISIONS.
- THE CONTRACTOR SHALL MAINTAIN AND PRESERVE ANY EXISTING SUB SURFACE DRAINAGE SYSTEMS (i.e. FIELD TILES) ACCORDING TO SECTION 611 OF THE IDOT STANDARD SPECIFICATIONS.

SEEDING, CLASS 2 SPECIAL

THE AREA TO BE SEEDDED SHALL CONSIST OF ALL EARTH SURFACES DISTURBED DURING CONSTRUCTION AS DIRECTED BY THE ENGINEER. EST. QUANTITY = 1.3 ACRES

TEMPORARY EROSION CONTROL SEEDING

2 APPLICATIONS 100LB/ACRE EST. QUANTITY = 260 POUNDS

INLET AND PIPE PROTECTION

RT. STA. 3+40 = 1 EACH

TEMPORARY DITCH CHECKS

TOTAL = 19 EACH
FINAL LOCATION TO BE APPROVED BY ENGINEER.

PERIMETER EROSION BARRIER

LT. STA. 3+50 TO 5+50 = 200 FT
RT. STA. 6+50 TO 9+25 = 275 FT
LT. STA. 10+60 TO 11+75 = 115 FT
RT. STA. 10+50 TO 101+00 = 220 FT
TOTAL = 810 FT

LEGEND

- PERIMETER EROSION BARRIER
- TEMPORARY DITCH CHECKS
- INLET AND PIPE PROTECTION
- SEEDING, CLASS 2 SPECIAL

HAMPTON, LENZINI & RENWICK, INC.
CIVIL & STRUCTURAL ENGINEERS
LAND SURVEYORS

3085 STEVENSON DRIVE, SUITE 201
SPRINGFIELD, ILLINOIS 62703
(217) 546-3400

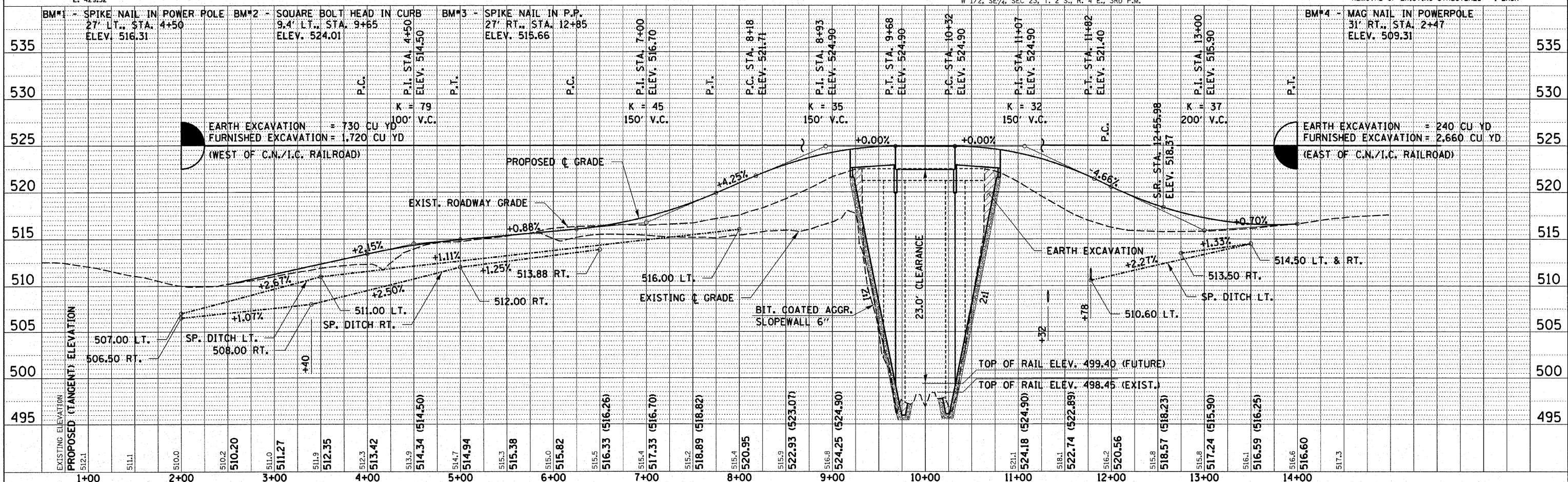
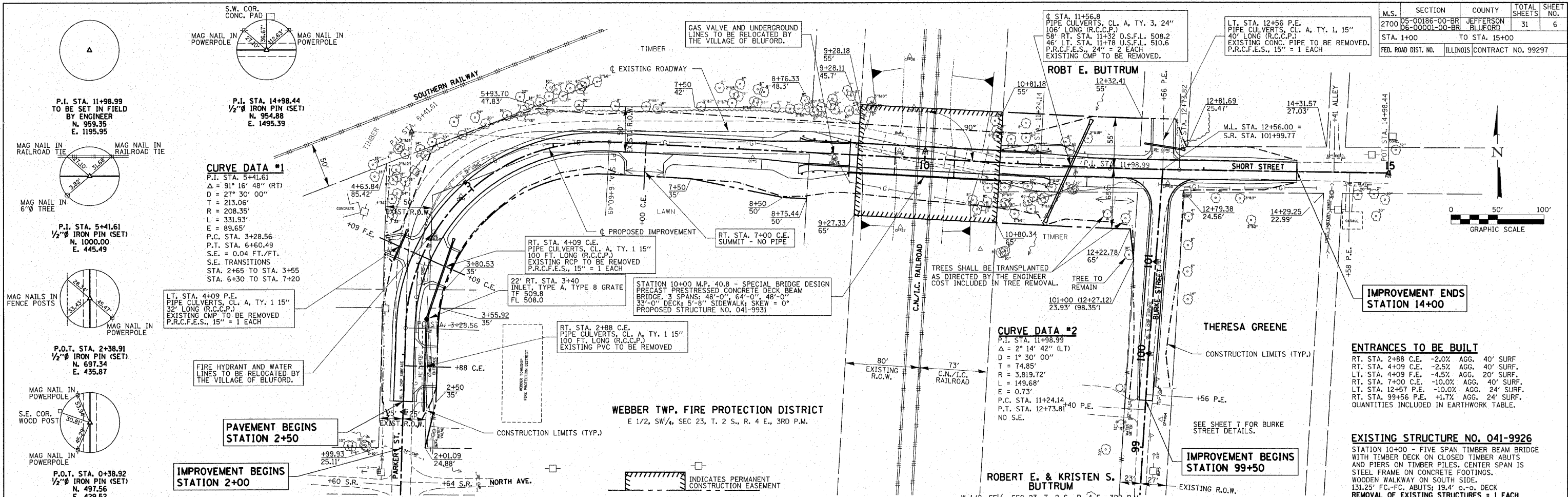
ELGIN • SPRINGFIELD

PROJECT NUMBER: 12-49-0005-1 DATE: 02/06/07
DESIGNED: J.W.F. CHECKED: S.W.M. DRAWN: D.T.M.

EROSION CONTROL PLAN
SECTIONS 05-00186-00-BR / 06-00001-00-BR
VILLAGE OF BLUFORD
JEFFERSON COUNTY

DATE	BY	REVISION

DATE	BY	REVISION



CURVE DATA #1
P.I. STA. 5+41.61
Δ = 91° 16' 48" (RT)
D = 27° 30' 00"
T = 213.06'
R = 208.35'
L = 331.93'
E = 89.65'
P.C. STA. 3+28.56
P.T. STA. 6+60.49
S.E. = 0.04 FT./FT.
S.E. TRANSITIONS
STA. 2+65 TO STA. 3+55
STA. 6+30 TO STA. 7+20

CURVE DATA #2
P.I. STA. 11+98.99
Δ = 2° 14' 42" (LT)
D = 1° 30' 00"
T = 74.85'
R = 3,819.72'
L = 149.68'
E = 0.73'
P.C. STA. 11+24.14
P.T. STA. 12+73.81
NO S.E.

ENTRANCES TO BE BUILT
RT. STA. 2+88 C.E. -2.0% AGG. 40' SURF
RT. STA. 4+09 C.E. -2.5% AGG. 40' SURF.
LT. STA. 4+09 F.E. -4.5% AGG. 20' SURF.
RT. STA. 7+00 C.E. -10.0% AGG. 40' SURF.
LT. STA. 12+57 P.E. -10.0% AGG. 24' SURF.
RT. STA. 99+56 P.E. +1.7% AGG. 24' SURF.
QUANTITIES INCLUDED IN EARTHWORK TABLE.

EXISTING STRUCTURE NO. 041-9926
STATION 10+00 - FIVE SPAN TIMBER BEAM BRIDGE WITH TIMBER DECK ON CLOSED TIMBER ABUTS AND PIERS ON TIMBER PILES. CENTER SPAN IS STEEL FRAME ON CONCRETE FOOTINGS. WOODEN WALKWAY ON SOUTH SIDE. 131.25' FC-FC. ABUTS; 19.4' o.c. DECK. REMOVAL OF EXISTING STRUCTURES = 1 EACH

PAVEMENT BEGINS STATION 2+50
IMPROVEMENT BEGINS STATION 2+00

IMPROVEMENT BEGINS STATION 99+50

IMPROVEMENT ENDS STATION 14+00

WEBBER TWP. FIRE PROTECTION DISTRICT
E 1/2, SW 1/4, SEC 23, T. 2 S., R. 4 E., 3RD P.M.

ROBERT E. & KRISTEN S. BUTTRUM
W 1/2, SE 1/4, SEC 23, T. 2 S., R. 4 E., 3RD P.M.

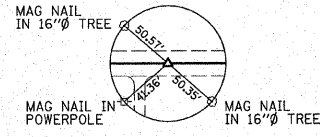
EARTH EXCAVATION = 730 CU YD
FURNISHED EXCAVATION = 1,720 CU YD
(WEST OF C.N./I.C. RAILROAD)

EARTH EXCAVATION = 240 CU YD
FURNISHED EXCAVATION = 2,660 CU YD
(EAST OF C.N./I.C. RAILROAD)

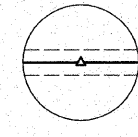
BIT. COATED AGGR. SLOPEWALL 6"

TOP OF RAIL ELEV. 499.40 (FUTURE)
TOP OF RAIL ELEV. 498.45 (EXIST.)

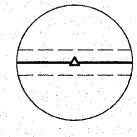
M.S.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2700	05-00186-00-BR	JEFFERSON	31	7
	06-00001-00-BR	BLUFORD		
STA. 97+25.09		TO STA. 101+99.77		
FED. ROAD DIST. NO.		ILLINOIS CONTRACT NO. 99297		



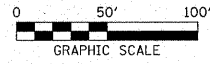
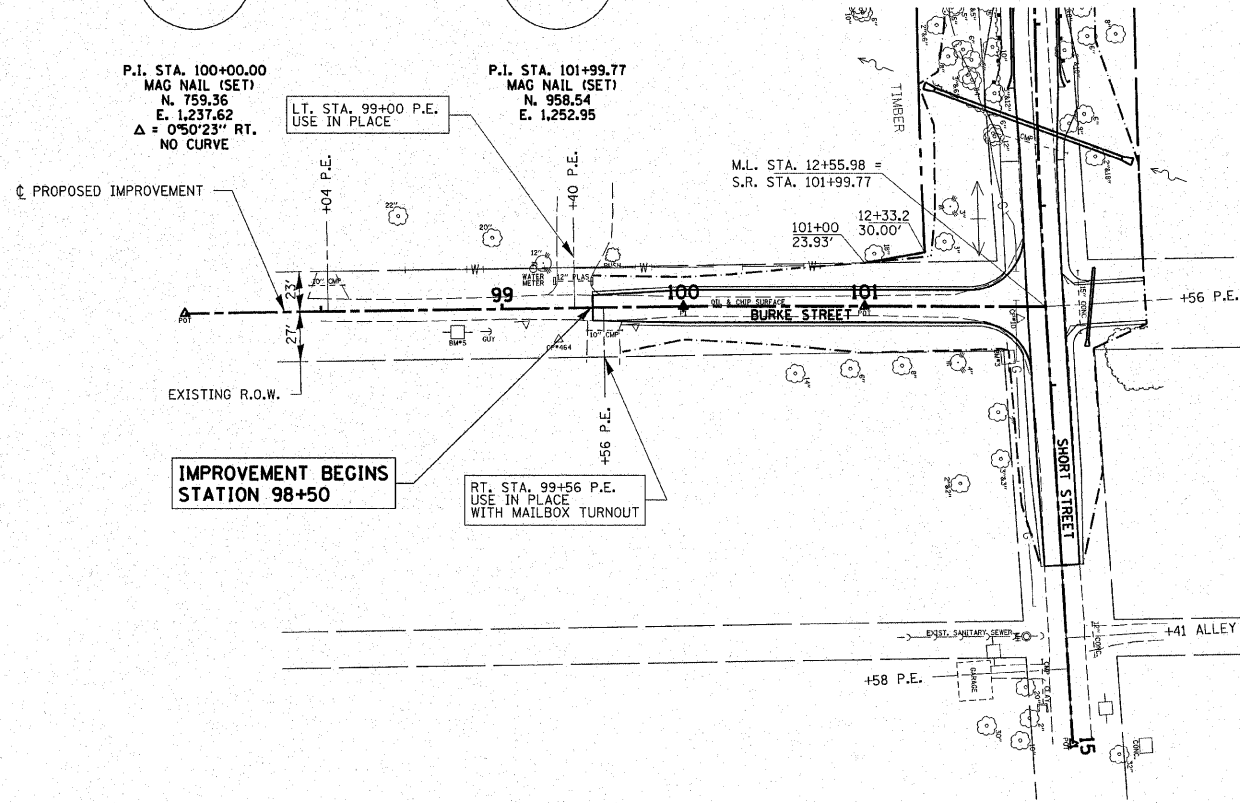
P.O.T. STA. 97+25.09
MAG NAIL (SET)
N. 484.98
E. 1,220.55



P.I. STA. 100+00.00
MAG NAIL (SET)
N. 759.36
E. 1,237.62
 $\Delta = 0^{\circ}50'23''$ RT.
NO CURVE

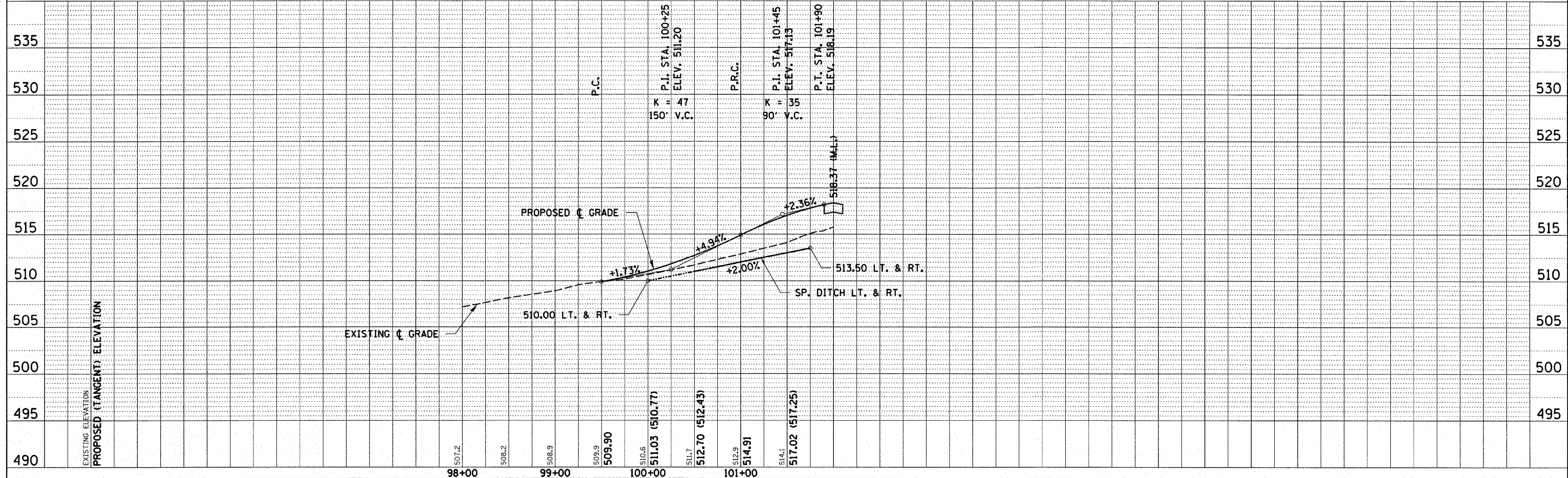


P.I. STA. 101+99.77
MAG NAIL (SET)
N. 958.54
E. 1,252.95

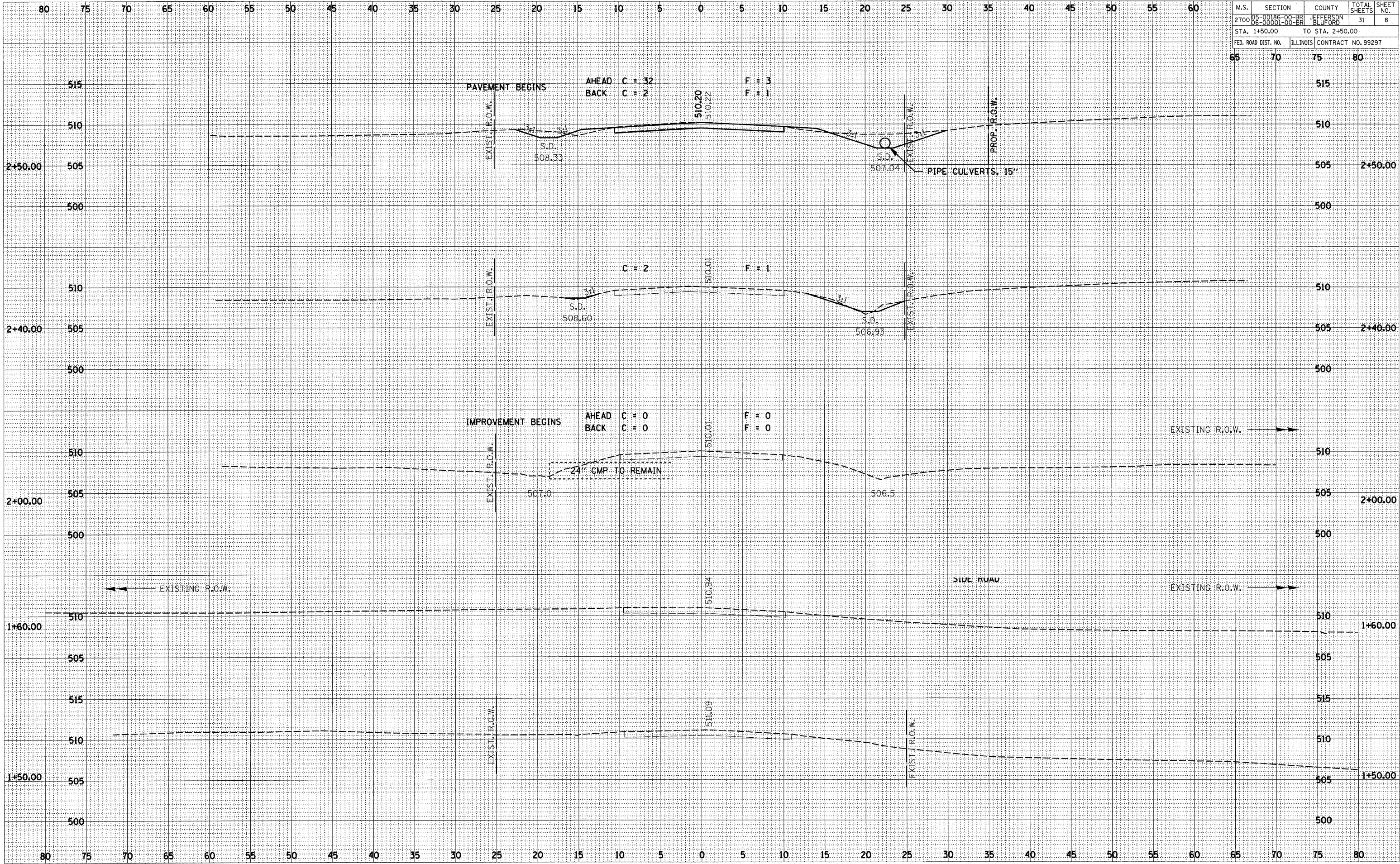


PLAN	SURVEYED	DATE
NOTED	BY	
CHECKED	BY	
PLotted	BY	
NOTE BOOK		
NO. OF PAGES		
NO. OF SHEETS		
NO. OF FIGURES		
NO. OF TABLES		
NO. OF PLANS		
NO. OF PROFILES		
NO. OF SECTIONS		
NO. OF DETAILS		
NO. OF ELEVATIONS		
NO. OF VOLUMES		
NO. OF SHEETS		
NO. OF FIGURES		
NO. OF TABLES		
NO. OF PLANS		
NO. OF PROFILES		
NO. OF SECTIONS		
NO. OF DETAILS		
NO. OF ELEVATIONS		
NO. OF VOLUMES		
NO. OF SHEETS		

PROFILE	SURVEYED	DATE
NOTED	BY	
CHECKED	BY	
PLotted	BY	
NOTE BOOK		
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NO. OF SHEETS		
NO. OF FIGURES		
NO. OF TABLES		
NO. OF PLANS		
NO. OF PROFILES		
NO. OF SECTIONS		
NO. OF DETAILS		
NO. OF ELEVATIONS		
NO. OF VOLUMES		
NO. OF SHEETS		



M.S.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2700	05-00186-00-BR	JEFFERSON	31	8
STA. 1+50.00 TO STA. 2+50.00		ILLINOIS	CONTRACT NO. 99297	



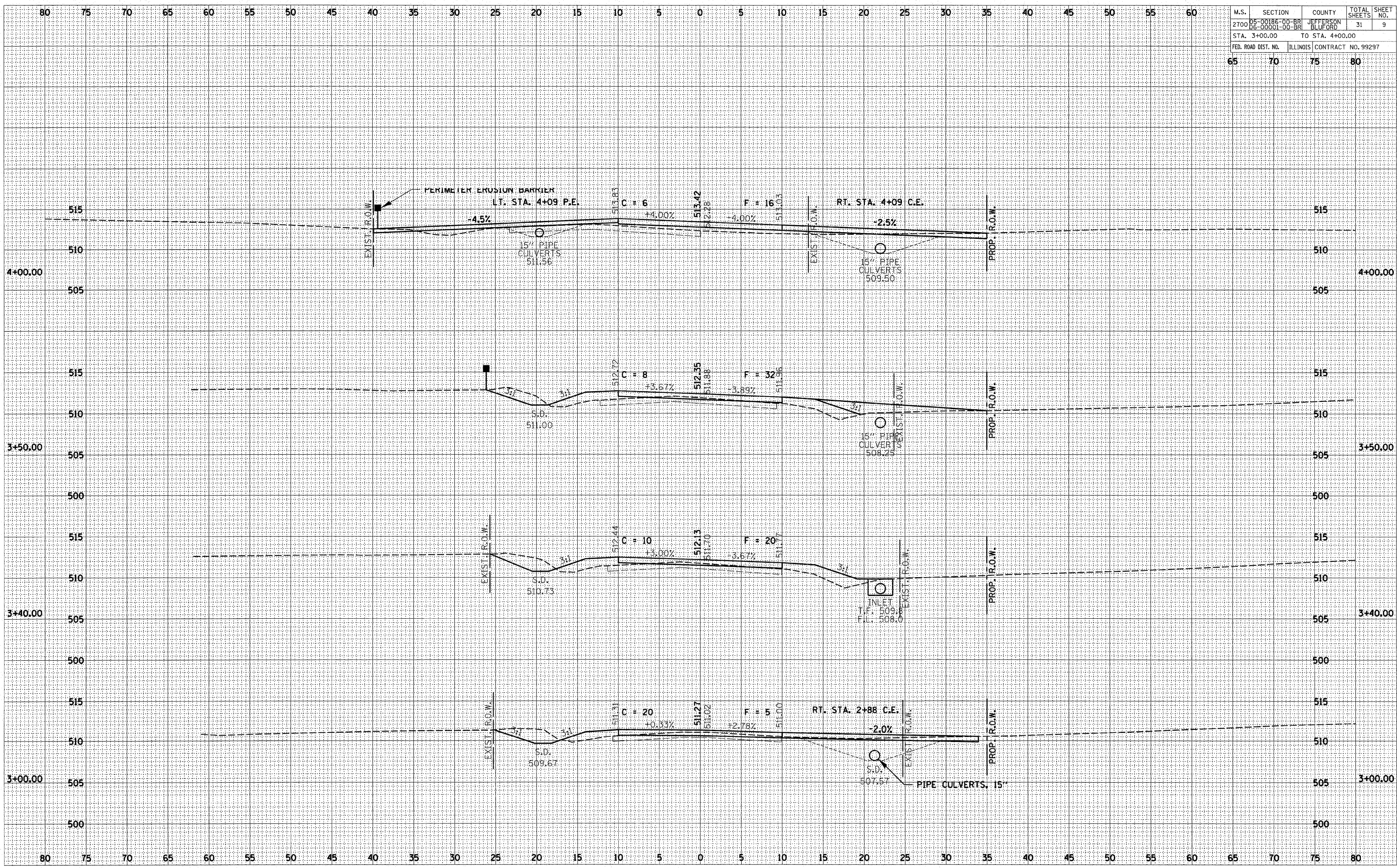
FINAL SURVEYED PLOTTED NOTE BOOK NO. BY DATE

ORIGINAL SURVEYED PLOTTED NOTE BOOK NO. BY DATE

M.S.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2700	05-00186-00-BR 06-00001-00-BR	JEFFERSON BLUFORD	31	9
STA. 3+00.00		TO STA. 4+00.00		
FED. ROAD DIST. NO.		ILLINOIS	CONTRACT NO. 99297	
65	70	75	80	

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

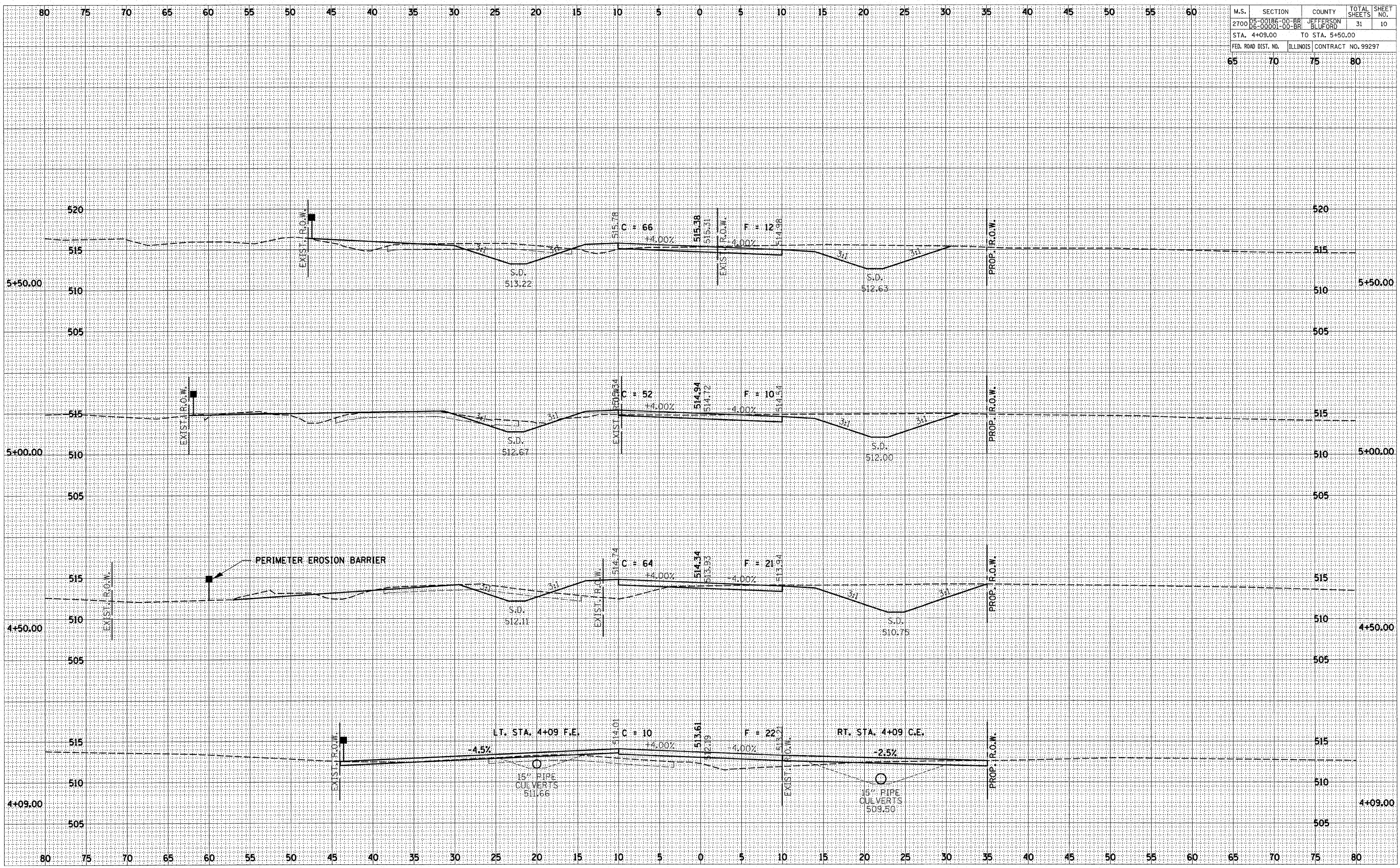
BY	DATE
ORIGINAL SURVEY	SURVEYED
NOTE BOOK NO.	PLOTTED
	TEMPLATE
	AREAS CHECKED



M.S.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2700	05-00186-00-BR	JEFFERSON	31	10
STA. 4+09.00		TO STA. 5+50.00		
FED. ROAD DIST. NO.		ILLINOIS CONTRACT NO. 99297		
65	70	75	80	

BY	DATE
FINAL SURVEYED	
PLOTTED	
NOTE BOOK	
NO.	
AREAS CHECKED	

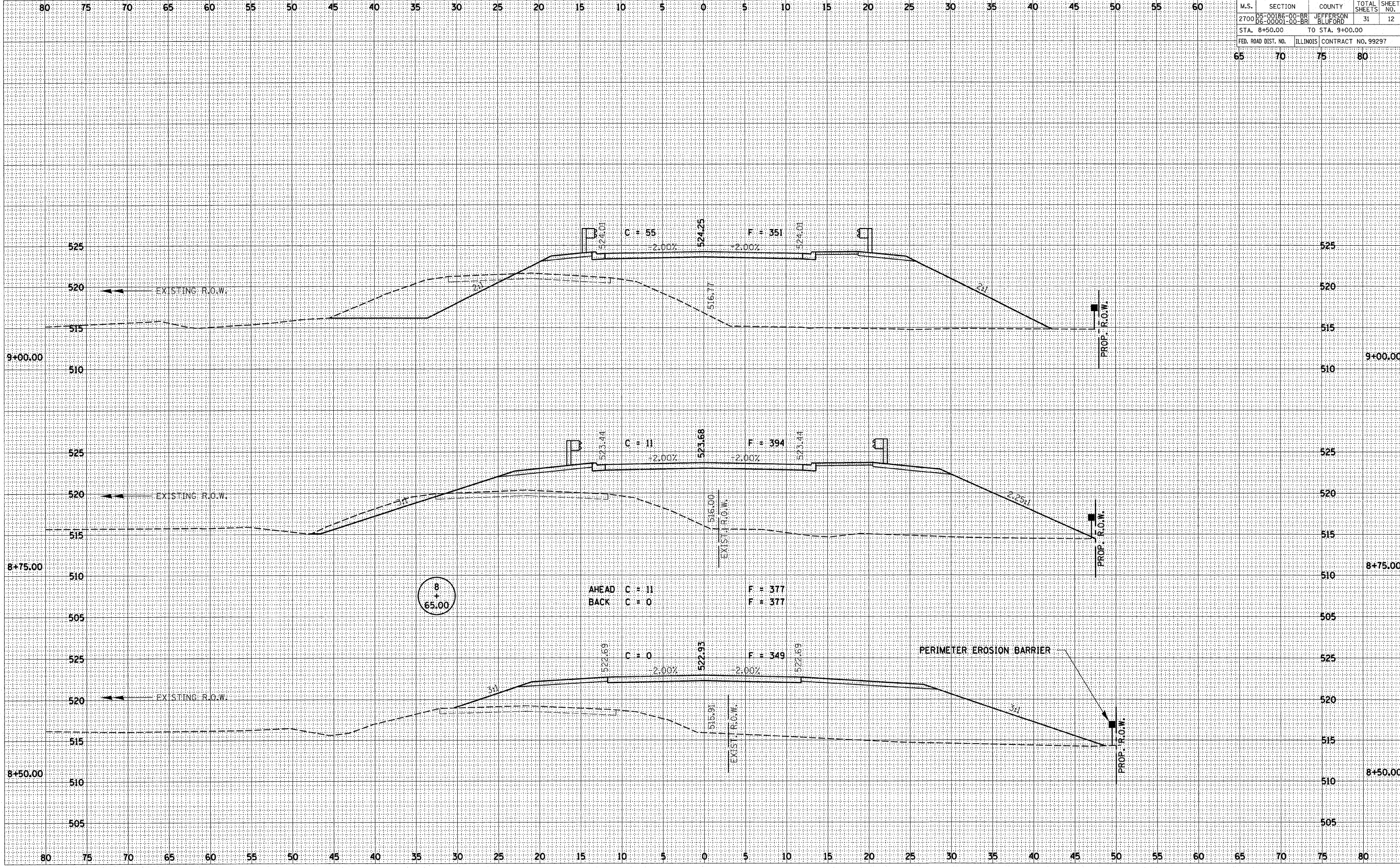
BY	DATE
ORIGINAL SURVEYED	
PLOTTED	
NOTE BOOK	
NO.	
AREAS CHECKED	



M.S.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2700	05-00186-00-BR 06-00001-00-BR	JEFFERSON BLUFORD	31	12
	STA. 8+50.00	TO STA. 9+00.00		
FED. ROAD DIST. NO.		ILLINOIS	CONTRACT NO. 99297	
65	70	75	80	

DATE	BY

DATE	BY



8
+
65.00

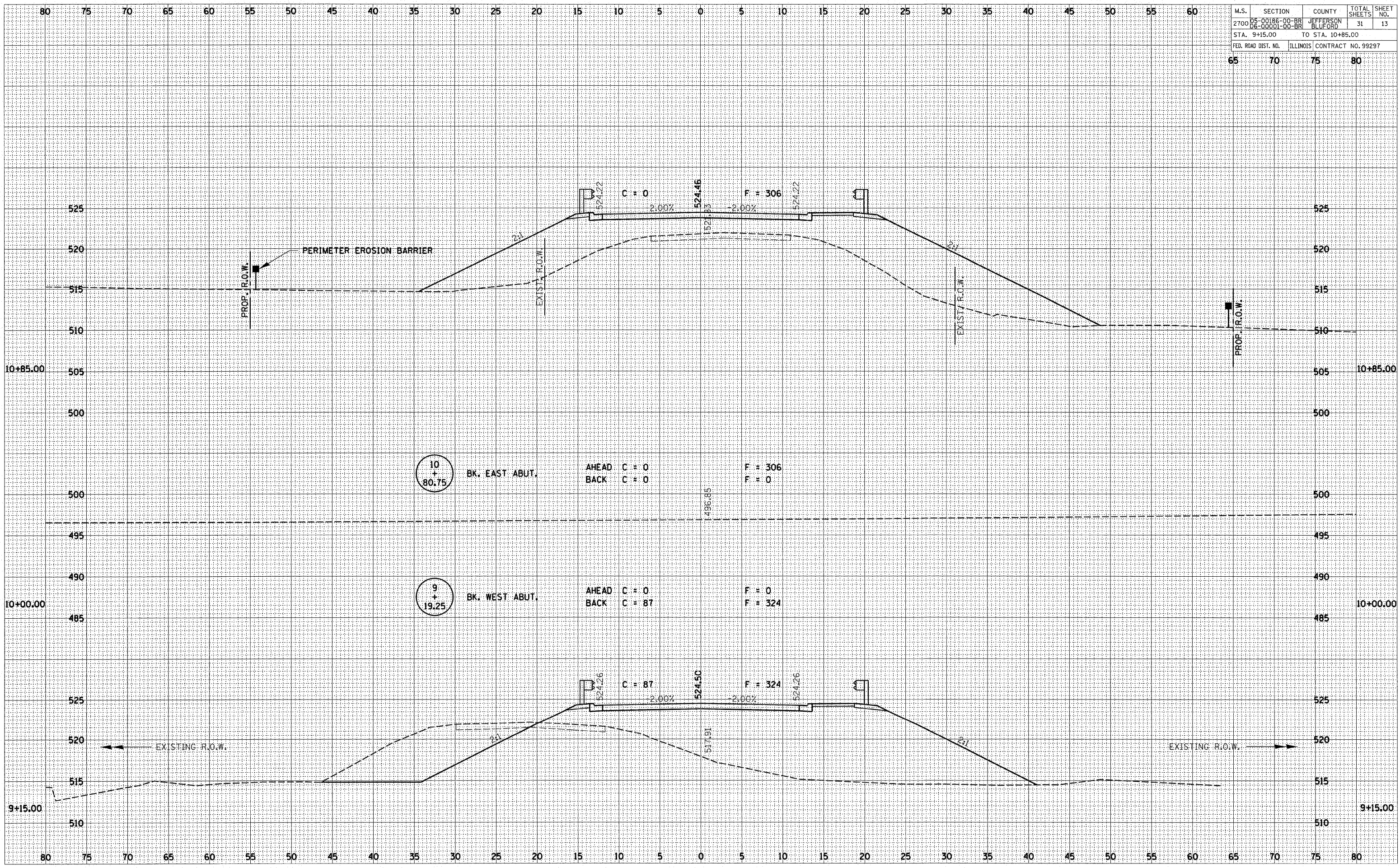
AHEAD C = 11 F = 377
BACK C = 0 F = 377

PERIMETER EROSION BARRIER

M.S.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2700	05-00186-00-BR 06-00001-00-BR	JEFFERSON BLUFORD	31	13
STA. 9+15.00		TO STA. 10+85.00		
FED. ROAD DIST. NO.	ILLINOIS	CONTRACT NO. 99297		
65	70	75	80	

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

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



M.S.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2700	05-00186-00-BR 06-00001-00-BR	JEFFERSON BLUFORD	31	14
STA. 11+00.00		TO STA. 11+32.00		
FED. ROAD DIST. NO.		ILLINOIS	CONTRACT NO. 99297	

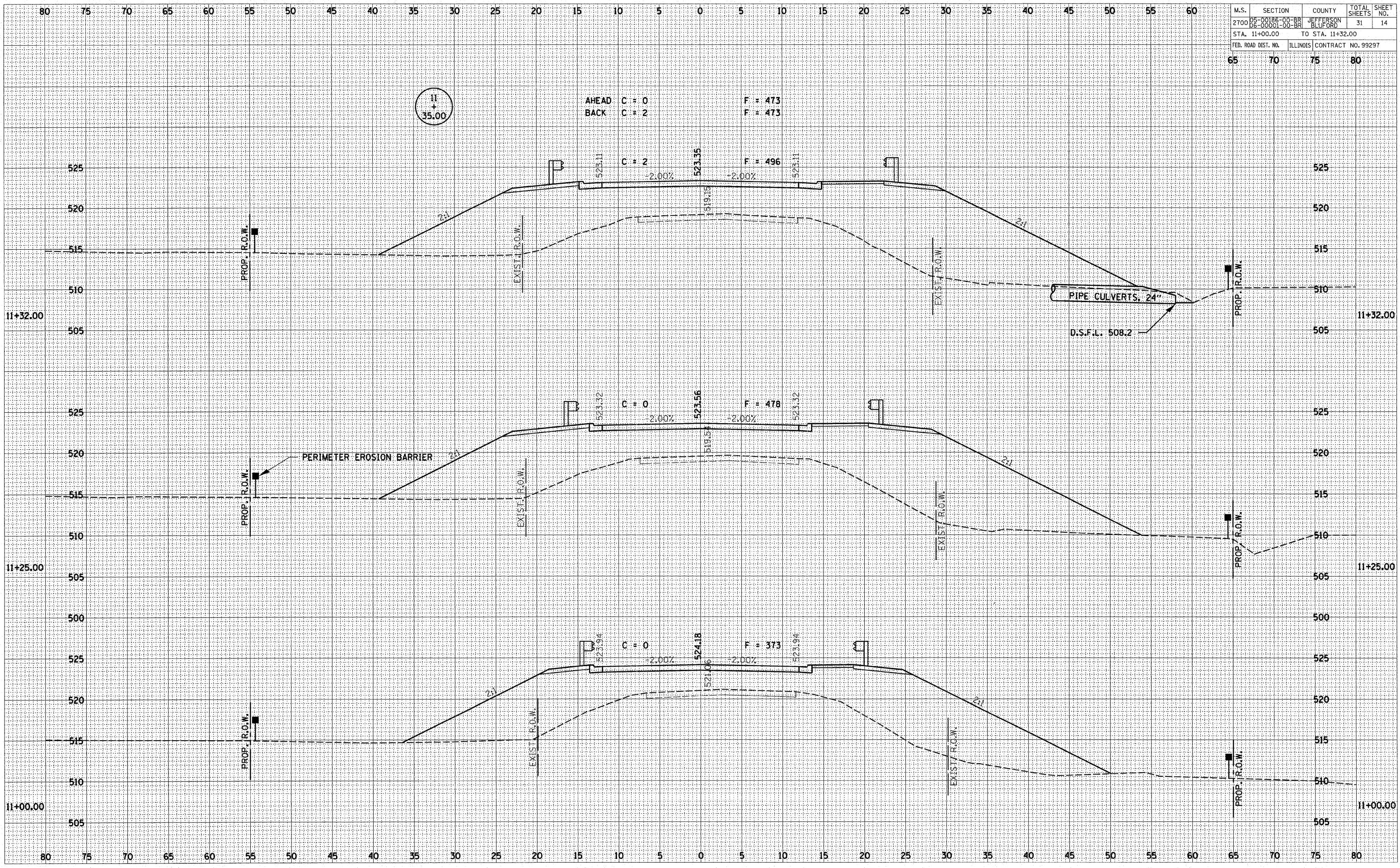
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BY	DATE

FINAL SURVEY	SURVEYED	PLOTTED	NO. OF AREAS CHECKED

BY	DATE

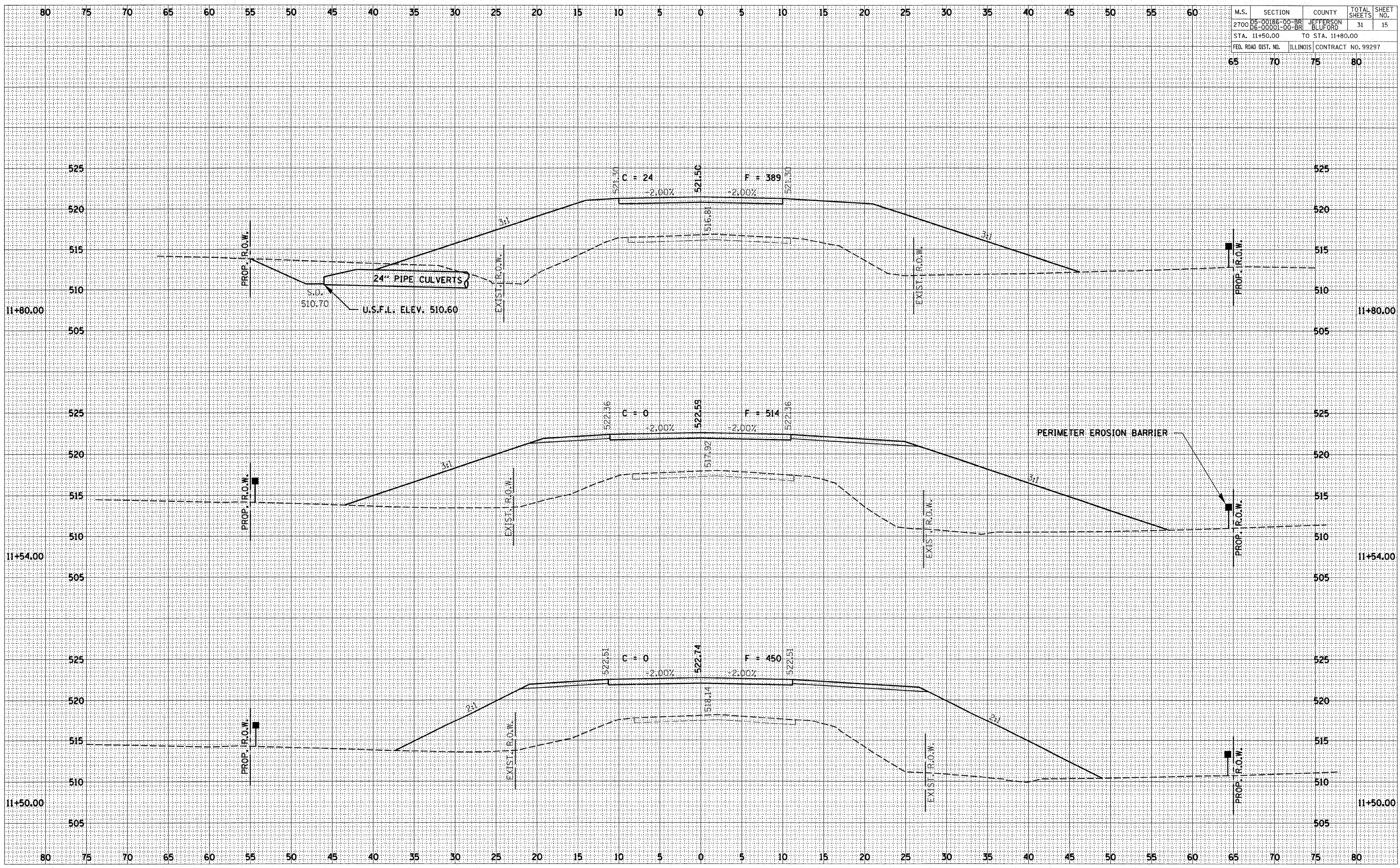
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2700	05-00186-00-BR 06-00001-00-BR	JEFFERSON BLUFORD	31	15
STA. 11+50.00		TO STA. 11+80.00		
FED. ROAD DIST. NO.	ILLINOIS	CONTRACT NO. 99297		
65	70	75	80	

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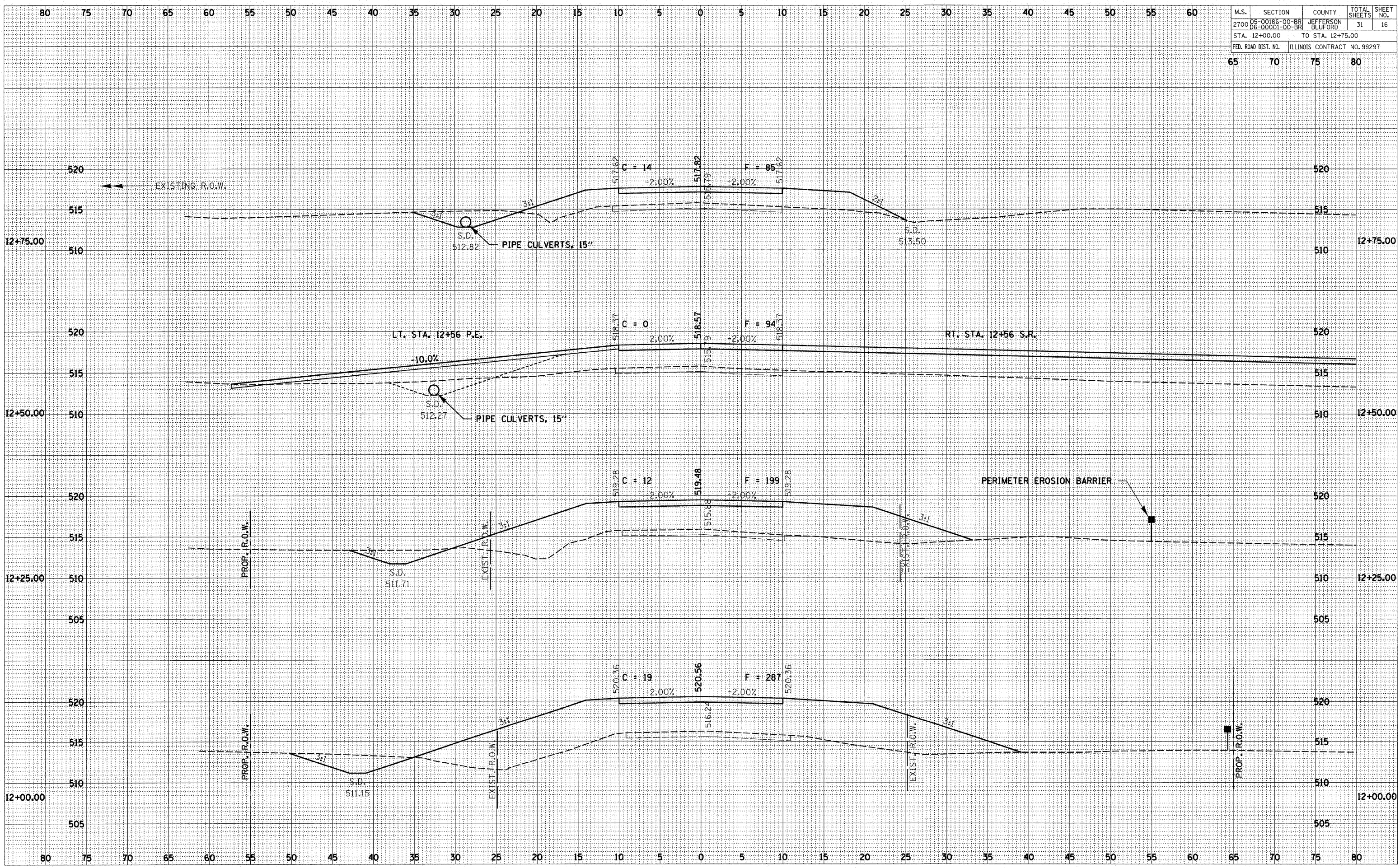
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NO. _____	PLOTTED	_____
NO. _____	TEMPLATE	_____
NO. _____	AREAS CHECKED	_____



M.S.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2700	05-00186-00-BR 06-00001-00-BR	JEFFERSON BLUFORD	31	16
STA. 12+00.00		TO STA. 12+75.00		
FED. ROAD DIST. NO.	ILLINOIS	CONTRACT NO. 99297		
65	70	75	80	

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

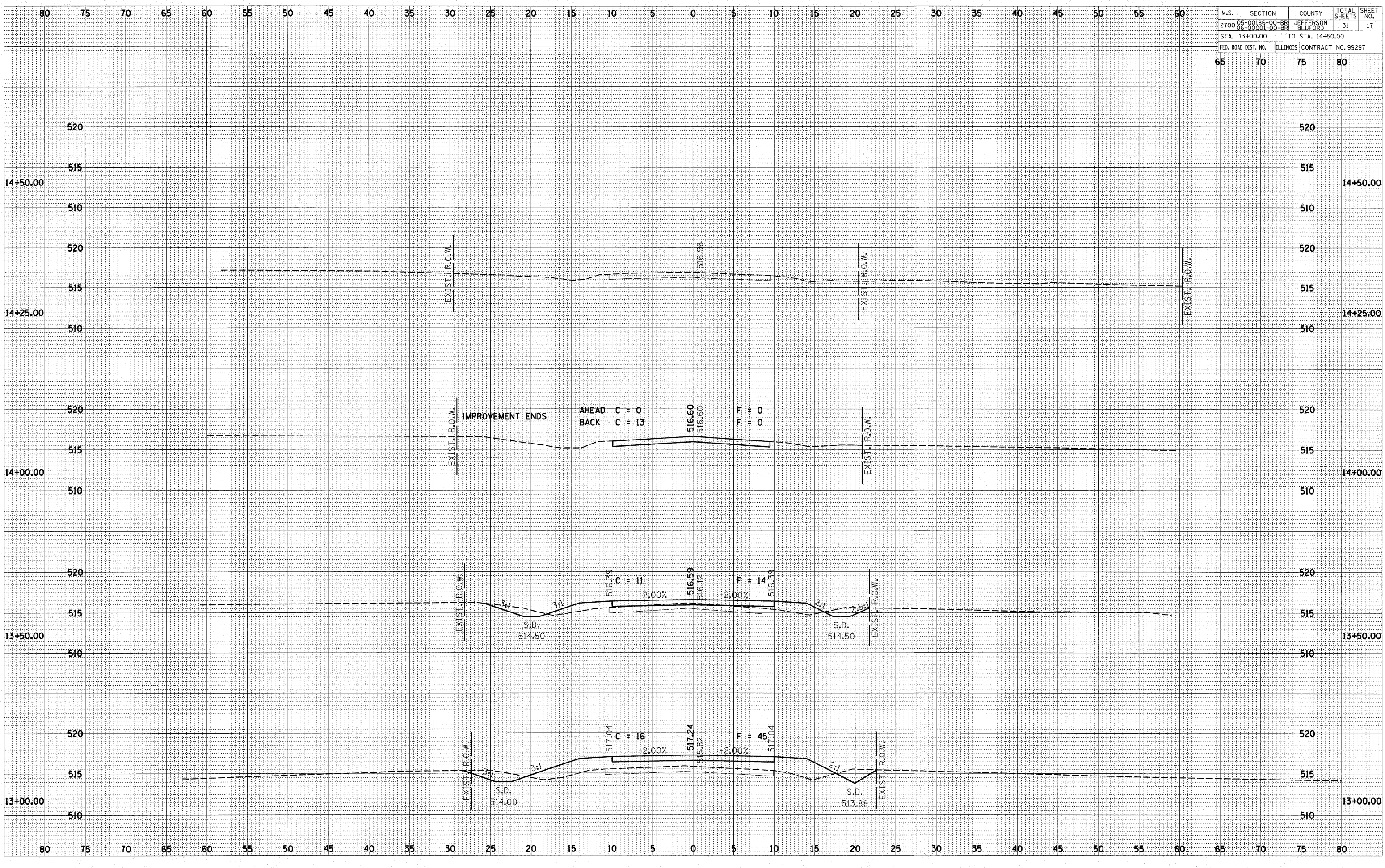
BY	DATE
ORIGINAL SURVEY	SURVEYED
NOTE BOOK	PLOTTED
NO.	TEMPLATE
	AREAS CHECKED



M.S.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2700	05-00186-00-BR 06-00001-00-BR	JEFFERSON BLUFORD	31	17
STA. 13+00.00		TO STA. 14+50.00		
FED. ROAD DIST. NO.	ILLINOIS	CONTRACT NO. 99297		
65	70	75	80	

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

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



80 75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60

14+50.00

14+25.00

14+00.00

13+50.00

13+00.00

14+50.00

14+25.00

14+00.00

13+50.00

13+00.00

65 70 75 80

80 75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60

AHEAD C = 0
BACK C = 13

IMPROVEMENT ENDS

C = 11
F = 14

C = 16
F = 45.04

EXIST. R.O.W.

EXIST. R.O.W.

EXIST. R.O.W.

EXIST. R.O.W.

EXIST. R.O.W.

EXIST. R.O.W.

EXIST. R.O.W.

EXIST. R.O.W.

EXIST. R.O.W.

EXIST. R.O.W.

EXIST. R.O.W.

EXIST. R.O.W.

516.96

516.60

516.59

517.24

S.D.
514.50

S.D.
514.50

S.D.
514.00

S.D.
513.88

-2.00%

-2.00%

-2.00%

+2.00%

3.2

3.1

3.7

3.1

2.1

2.5

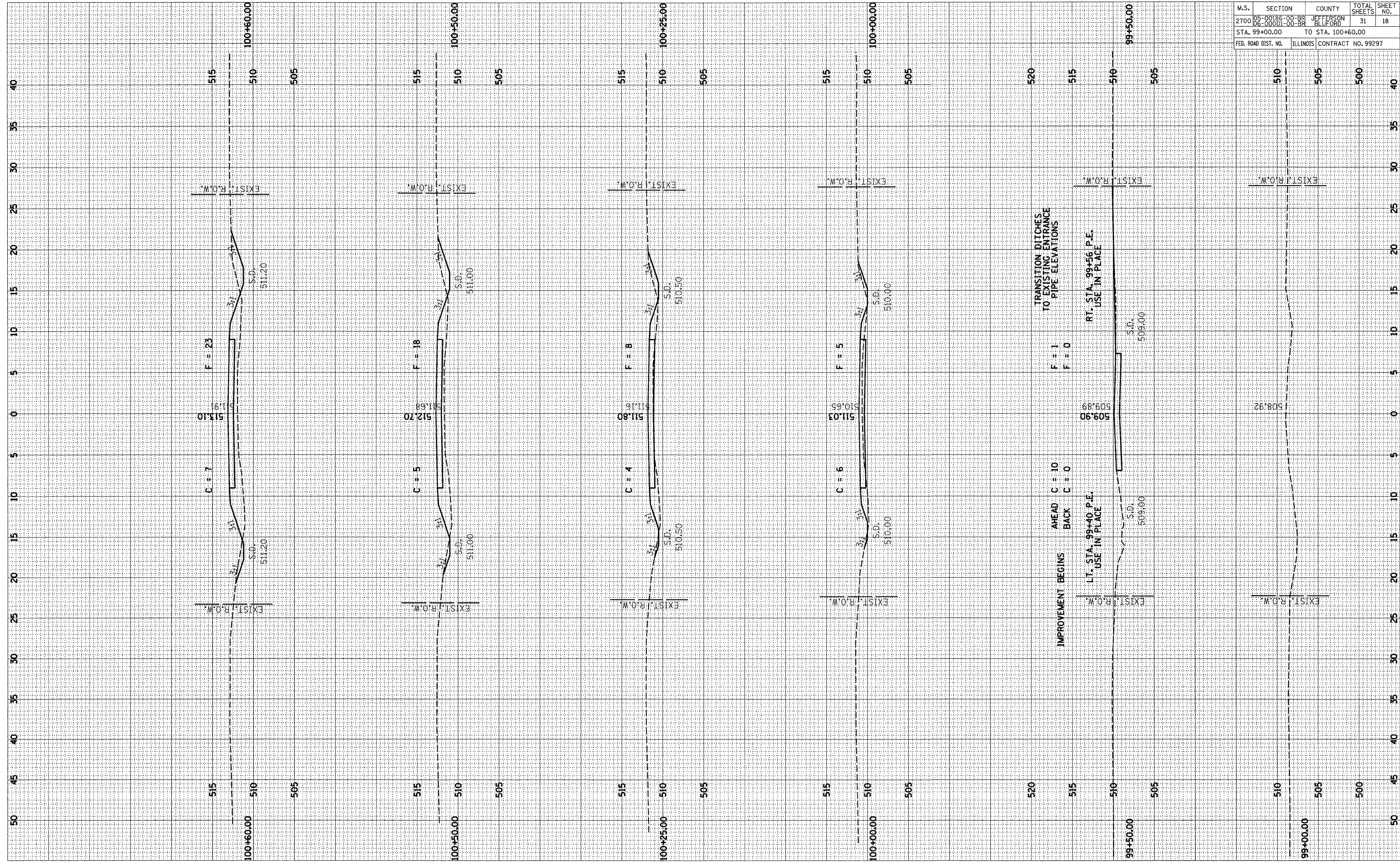
2.1

2.1

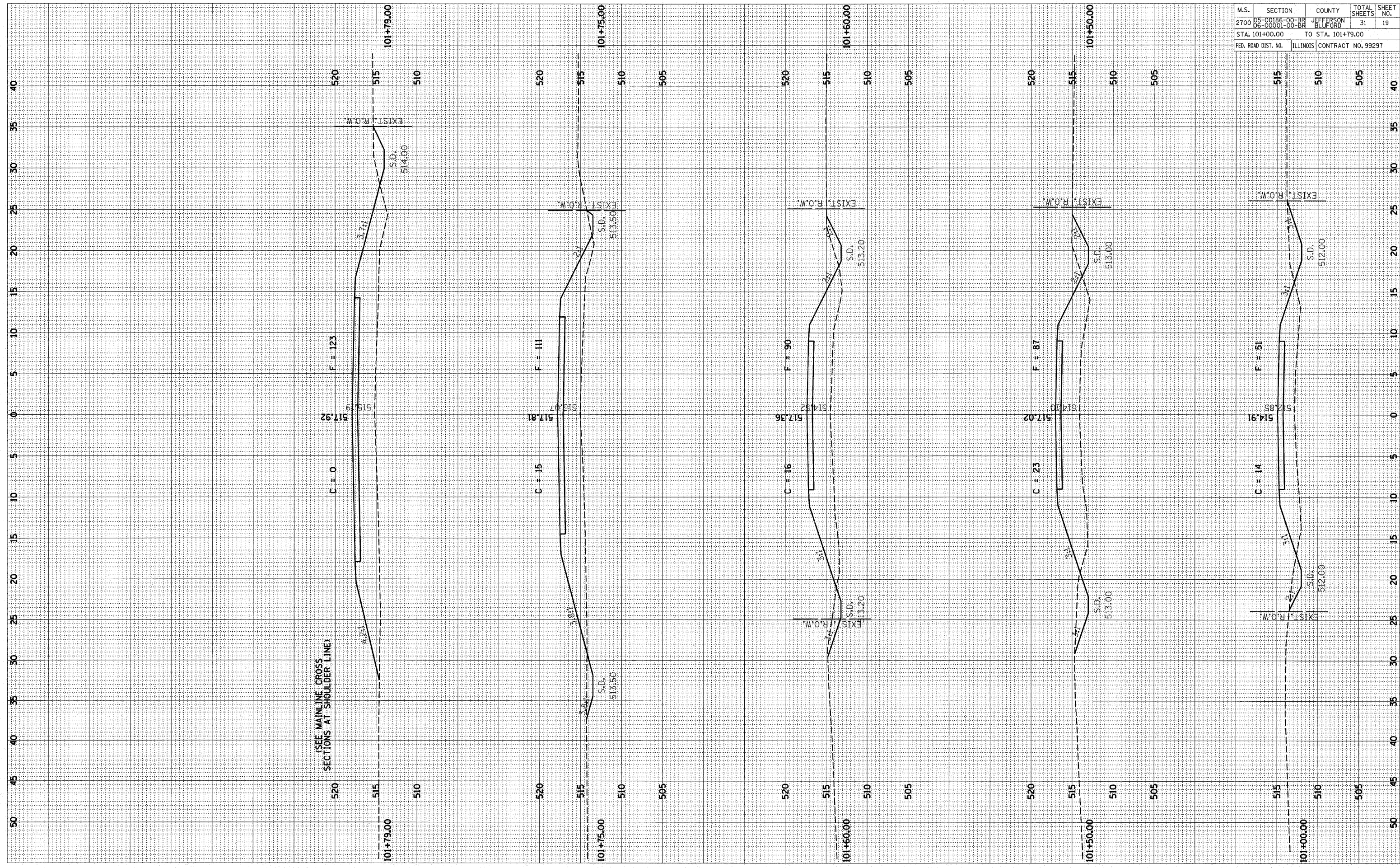
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STA. 99+00.00		TO STA. 100+60.00		
FED. ROAD DIST. NO.	ILLINOIS	CONTRACT NO. 99297		

FINAL SURVEY	BY	DATE
SURVEYED		
NOTE BOOK		
TEMPLATE		
AREAS		
CHECKED		

ORIGINAL SURVEY	BY	DATE
SURVEYED		
NOTE BOOK		
TEMPLATE		
AREAS		
CHECKED		



M.S.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2700	05-00186-00-BR 06-00001-00-BR	JEFFERSON BLUFORD	31	19
STA. 101+00.00		TO STA. 101+79.00		
FED. ROAD DIST. NO.	ILLINOIS CONTRACT NO. 99297			



FINAL SURVEY	BY	DATE
SURVEYED		
NOTE BOOK		
AREAS		
AREAS CHECKED		

ORIGINAL SURVEY	BY	DATE
SURVEYED		
NOTE BOOK		
AREAS		
AREAS CHECKED		

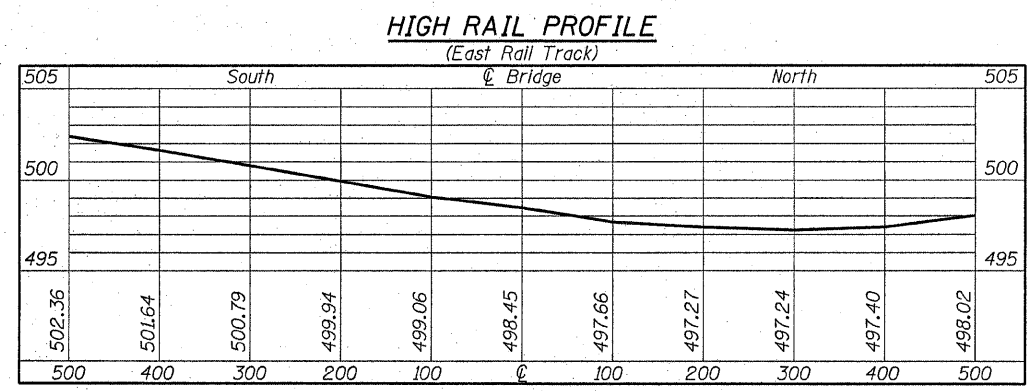
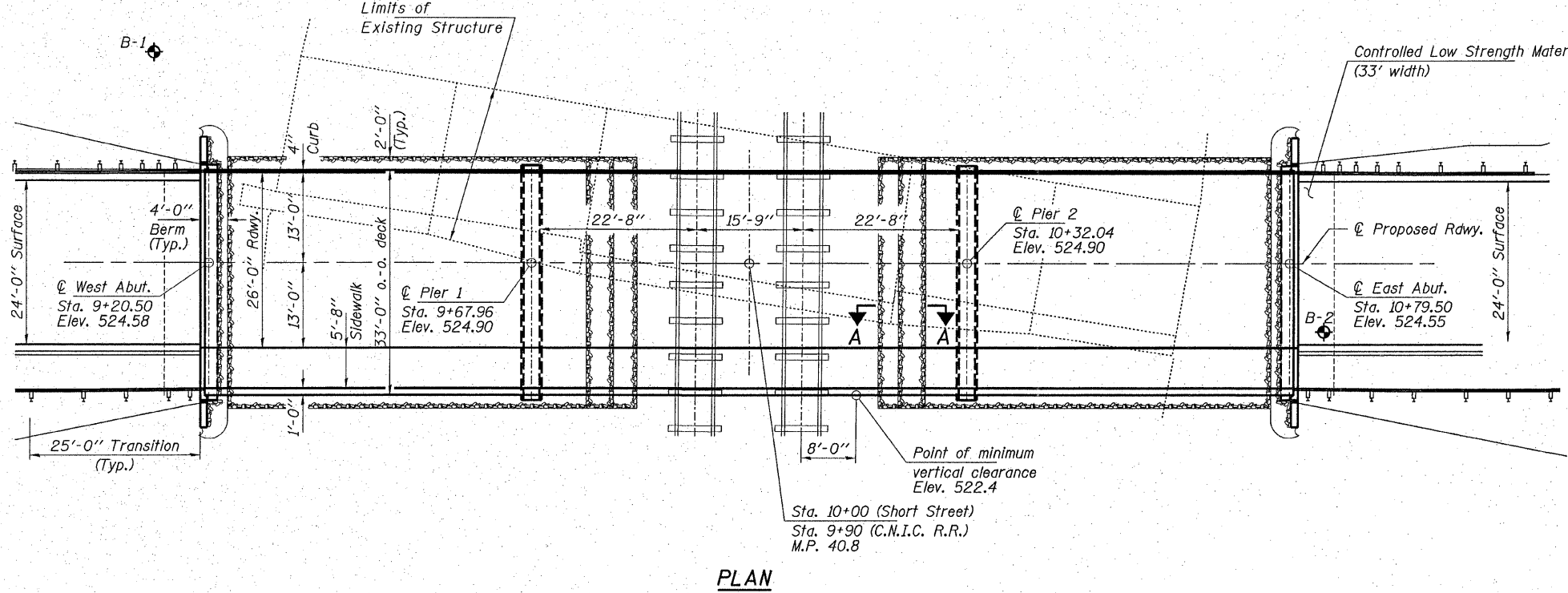
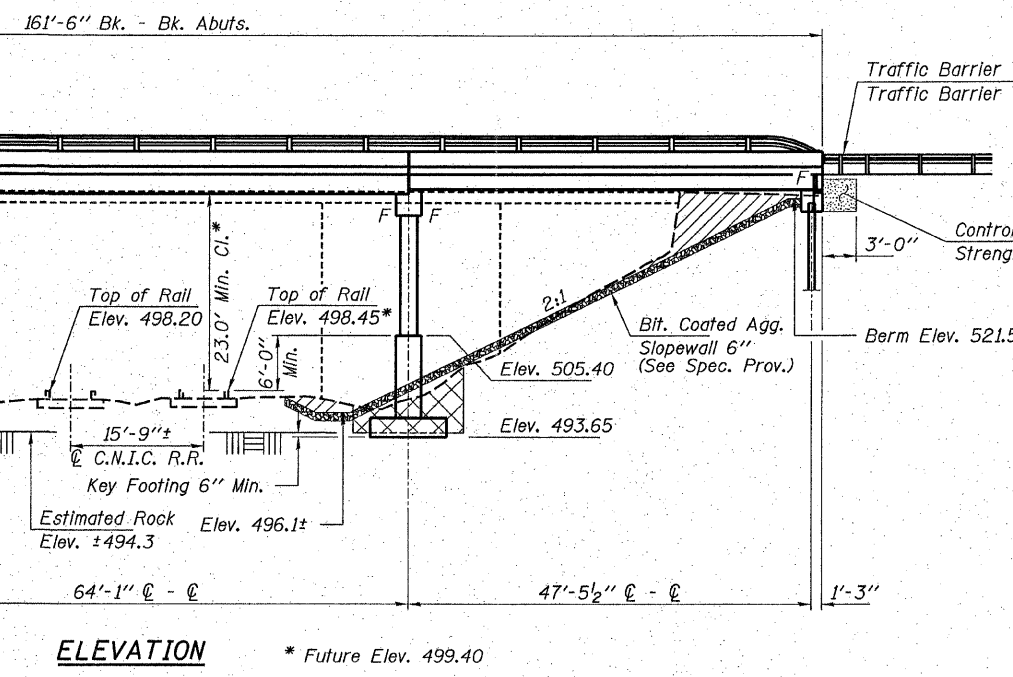
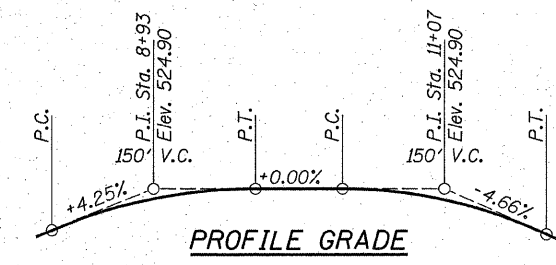
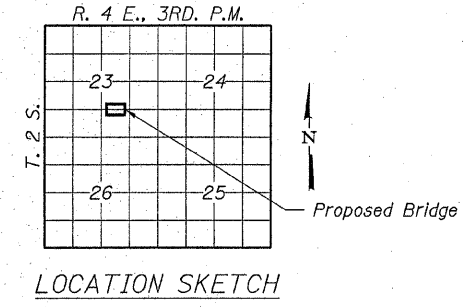
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
M.S. 2700	05-00186-00-BR 06-00001-00-BR	JEFFERSON	31	20
FED. ROAD DIST. NO.		ILLINOIS	CONTRACT NO. 99297	

C.N./I.C. RAILROAD
BUILT 200_ BY
JEFFERSON COUNTY
SEC. 05-00186-00-BR
VILLAGE OF BLUFORD
SEC. 06-00001-00-BR
STR. NO. 041-9931 LOADING HS 20

NAME PLATE
See Std. 515001

GENERAL NOTES

Layout of slope protection system may be varied in the field to suit ground conditions as directed by the Engineer.
Excavation required to construct the Abutments shall be included in the cost of Concrete Structures. No additional compensation will be allowed for Structure Excavation.
The Contractor shall drive test piles to 110% of the nominal required bearing specified in production locations at West Abutment or approved by the Engineer before ordering the remainder of piles.
Reinforcement bars shall conform to the requirements of ASTM A706 Gr 60 (IL Modified). See Special Provisions.
Contractor shall provide 1 1/2:1 maximum excavated slope from bottom of the pier footing to the existing ground surface.
See sheet 31 for Borings.



TOTAL BILL OF MATERIAL

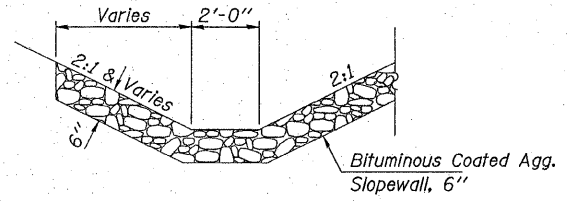
ITEM	UNIT	SUPER	SUB	TOTAL
Rock Excavation	Cu. Yd.		15	15
Bituminous Coated Aggregate Slopewall, 6"	Sq. Yd.			481
Structure Excavation	Cu. Yd.		120	120
Concrete Structures	Cu. Yd.		175.0	175.0
Concrete Superstructure	Cu. Yd.	44.6		44.6
Concrete Encasement	Cu. Yd.		2.6	2.6
Precast Prestressed Concrete Deck Beams (21" Depth)	Sq. Ft.	3,168		3,168
Precast Prestressed Concrete Deck Beams (27" Depth)	Sq. Ft.	2,112		2,112
Protective Coat	Sq. Yd.	100		100
Stud Shear Connectors	Each		20	20
Reinforcement Bars	Pound		40,940	40,940
Reinforcement Bars, Epoxy Coated	Pound	4,320		4,320
Aluminum Railing, Type L	Foot	160		160
Steel Bridge Rail, Type SM	Foot	165		165
Steel Piles HP10x42	Foot		230	230
Test Pile Steel HP10x42	Each		1	1
Name Plates	Each		1	1
Controlled Low Strength Material	Cu. Yd.		37	37

DESIGN STRESSES

FIELD UNITS
f'c = 3,500 psi
fy = 60,000 psi (Reinf.)

PRECAST PRESTRESSED UNITS
f'c = 5,000 psi
f'ci = 4,000 psi
f's = 270,000 psi (1/2" low lax. strands)
f'si = 201,960 psi (1/2" low lax. strands)
fy = 60,000 psi (Reinf.)

Loading HS 20-44
Design Specifications: 2002 AASHTO & all applicable Interims.
50#/Sq. Ft. included in dead load for future wearing surface.



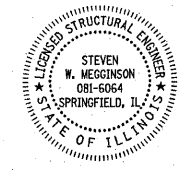
SECTION A-A

SEISMIC DATA

Seismic Performance Category (SPC) = B
Bedrock Acceleration Coefficient (A) = 0.10g
Site Coefficient (S) = 1.0

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 "AASHTO Standard Specifications for Highway Bridges".

Steven W. Megginson 3-22-07
ILLINOIS STRUCTURAL NO. 081-6064



Expires 11-30-08

HAMPTON, LENZINI & RENWICK, INC.
CIVIL & STRUCTURAL ENGINEERS
LAND SURVEYORS

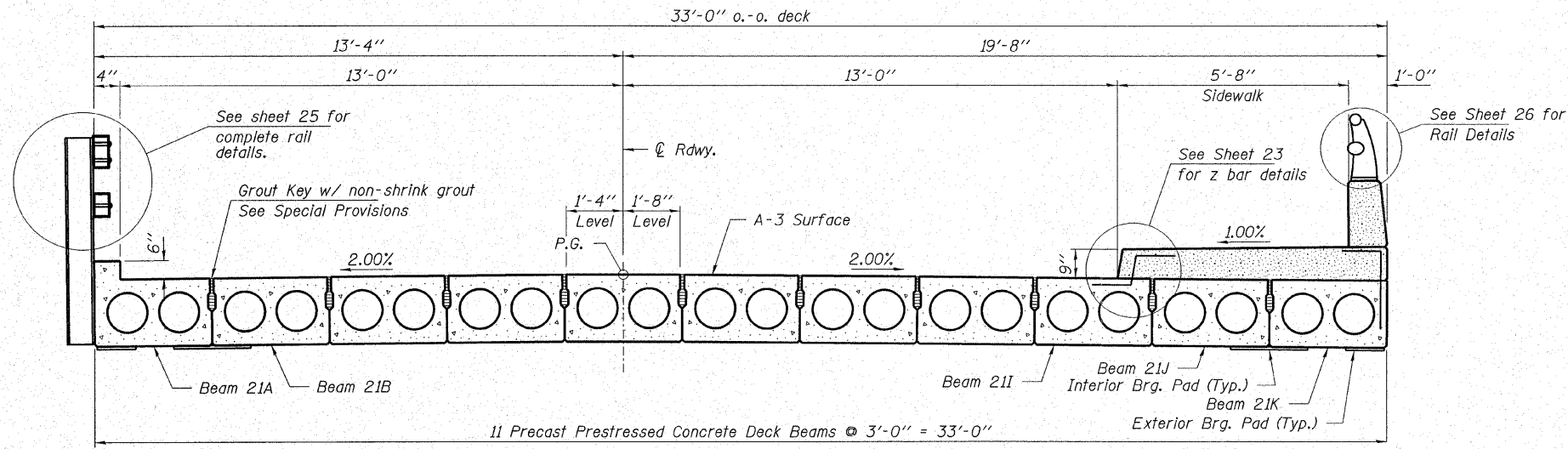
ELGIN • SPRINGFIELD

3085 STEVENSON DRIVE, SUITE 201
SPRINGFIELD, ILLINOIS 62703
(217) 546-3400

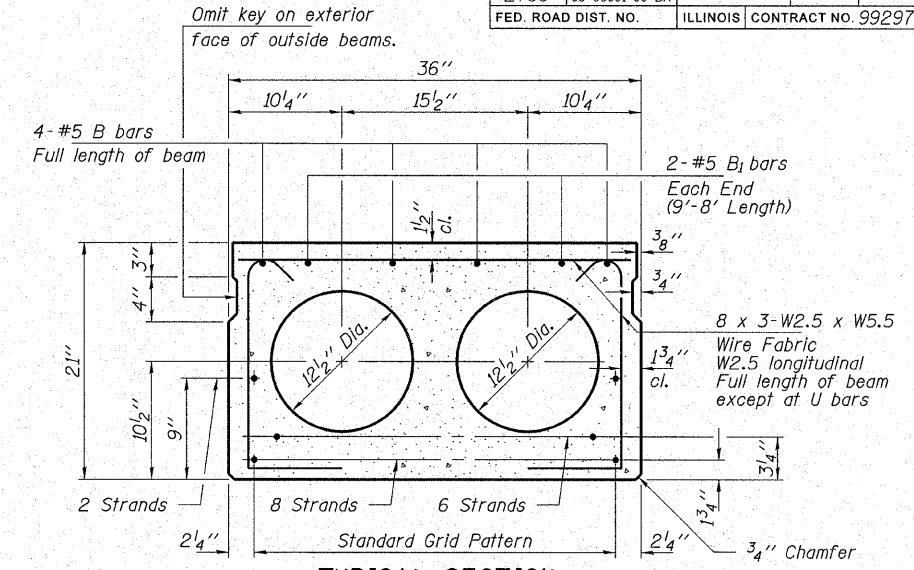
PROJECT NUMBER: 12-49-0005-1 DATE: 03/21/07
DESIGNED: R.J.F. CHECKED: S.W.M. DRAWN: D.B.

GENERAL PLAN AND ELEVATION
SECTIONS 05-00186-00-BR / 06-00001-00-BR
VILLAGE OF BLUFORD
JEFFERSON COUNTY
STRUCTURE NO. 041-9931 / STATION 10+00

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
M.S. 2700	05-00186-00-BR 06-00001-00-BR	JEFFERSON	31	21
FED. ROAD DIST. NO.		ILLINOIS	CONTRACT NO. 99297	



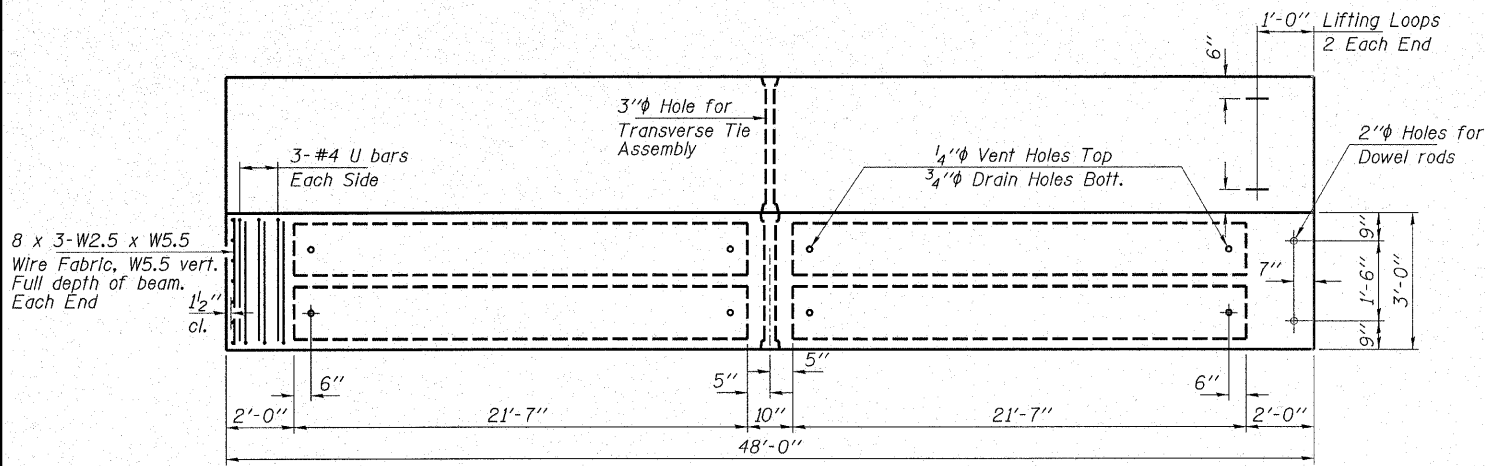
CROSS SECTION
(Looking East)



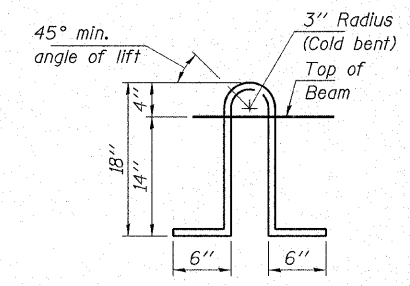
TYPICAL SECTION

16-1/2" Strands, Each Strand Stressed to 30,900 Lbs.
8-Strands 1 3/4" up, 6-Strands 3/4" up, 2-Strands 9" up
Expected Camber = 1/2"

Note: Place strands symmetrically about center of beam.



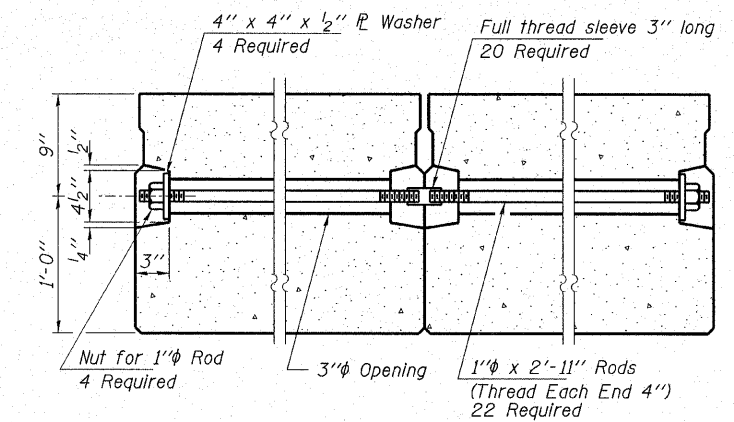
PLAN



LIFTING LOOP DETAIL

Approved alternate may be substituted for the above.

Note: The loop shall be formed in a manner such that all strands are engaged during lifting. Loops shall be cut off after beams have been erected.



TYPICAL TRANSVERSE TIE ASSEMBLY

NOTES

Prestressing steel shall be uncoated high strength, low-relaxation 7-wire strand, Grade 270. The nominal diameter shall be 2" and the nominal cross-sectional area shall be 0.153 sq. in. Lifting loops shall be 2-2" phi-270 ksi strands, as shown. Reinforcement bars shall conform to the requirements of ASTM A 706 Gr 60 (IL Modified). See Special Provisions.

The bearing seat surfaces shall be adjusted by shimming to assure firm and even bearing. Two 1/2" 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 beam and the bottom edge of the key.

Required Release Strength, f'cl, shall be 4,000 p.s.i.

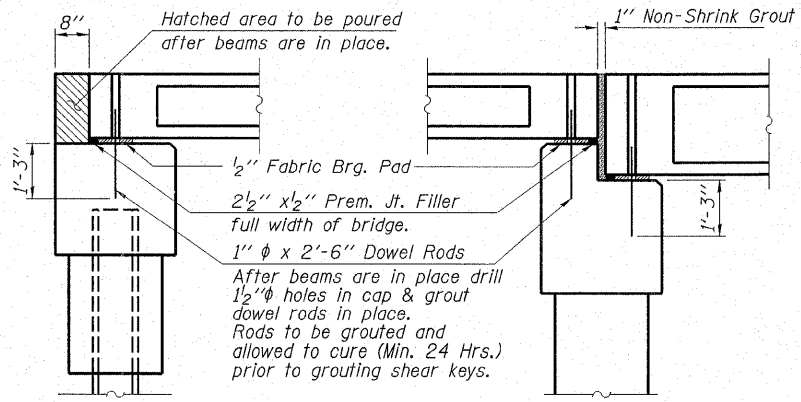
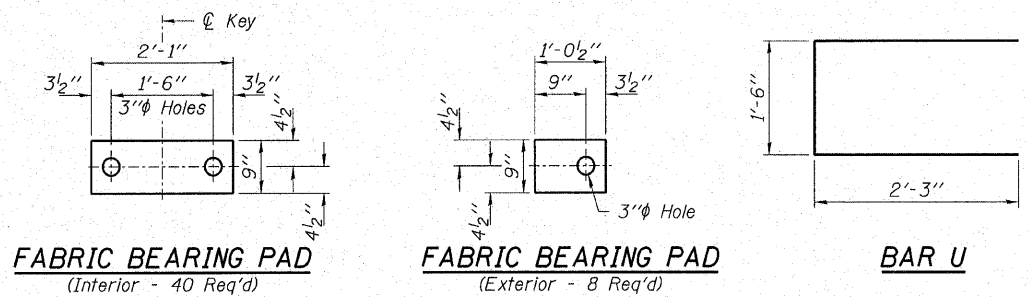
The 1" rods in the transverse tie assembly shall be tightened to a snug fit and the threads set. Pockets that receive transverse tie bar on outside shall be filled with grout after transverse tie assembly is in place.

A calcium nitrate corrosion inhibitor shall be used in the concrete for precast prestressed concrete deck beams.

See Sheet 23 for additional beam details.

BILL OF MATERIAL

ITEM	UNIT	QUANTITY
Precast Prestressed Concrete Deck Beams (21" Depth)	Sq. Ft.	3,168



SECTION AT ABUTMENTS

SECTION AT PIERS

HAMPTON, LENZINI & RENWICK, INC.
CIVIL & STRUCTURAL ENGINEERS
LAND SURVEYORS

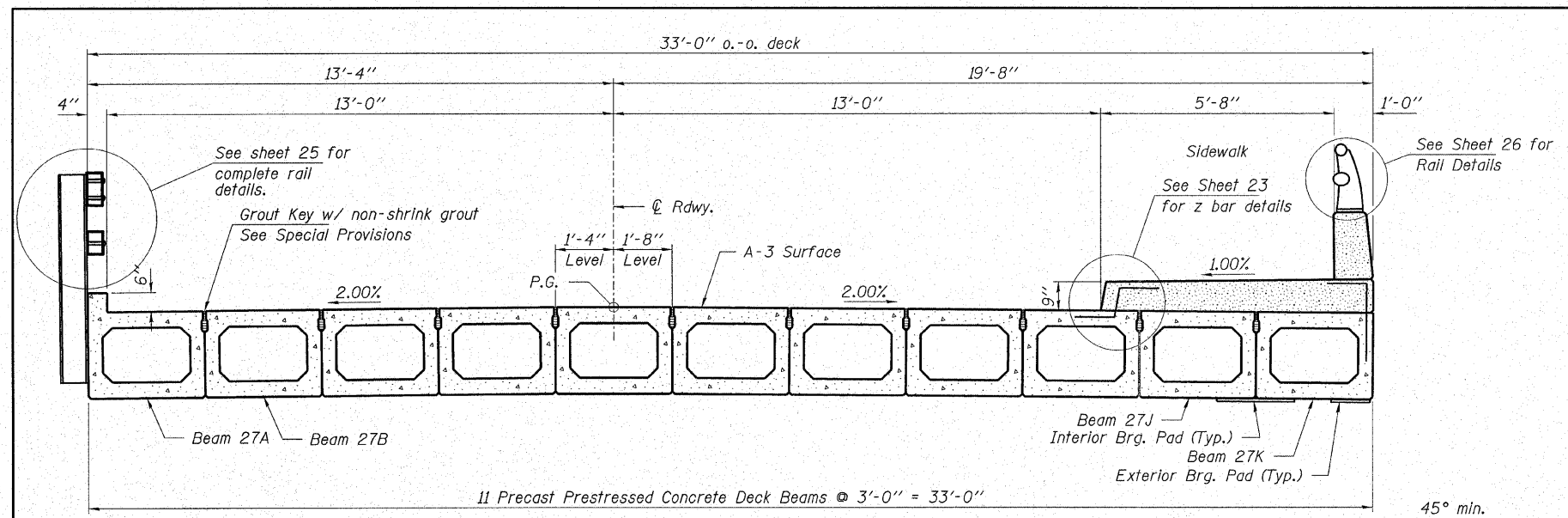
3085 STEVENSON DRIVE, SUITE 201
SPRINGFIELD, ILLINOIS 62703
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ELGIN • SPRINGFIELD

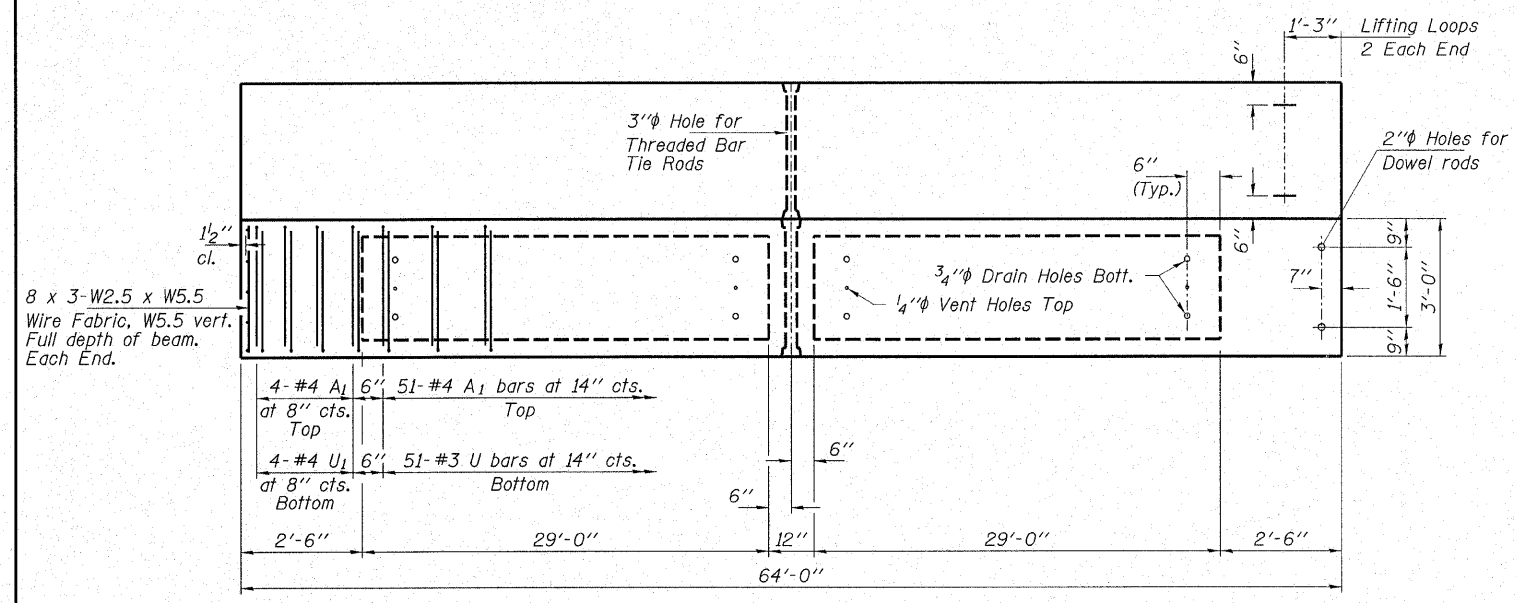
PROJECT NUMBER: 12-49-0005-1 DATE: 03/21/07
DESIGNED: R.J.P. CHECKED: S.W.M. DRAWN: D.B.

SUPERSTRUCTURE - SPAN 1 & 3
SECTIONS 05-00186-00-BR / 06-00001-00-BR
VILLAGE OF BLUFORD
JEFFERSON COUNTY
STRUCTURE NO. 041-9931 / STATION 10+00

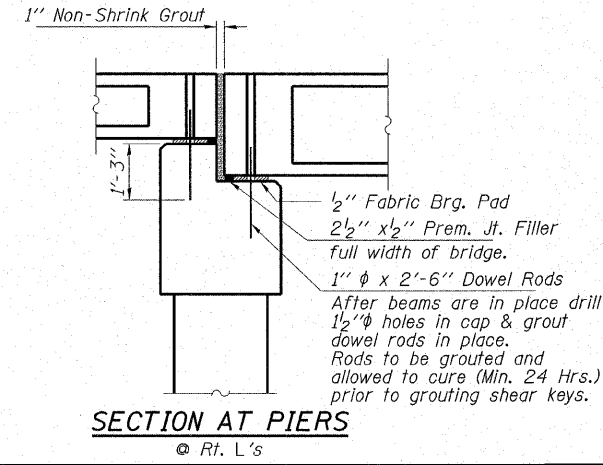
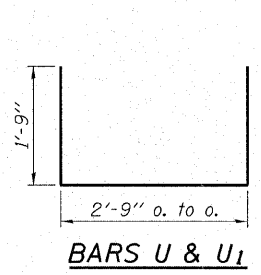
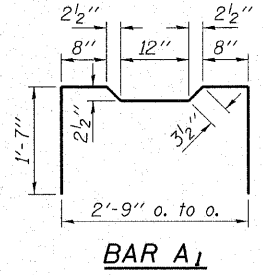
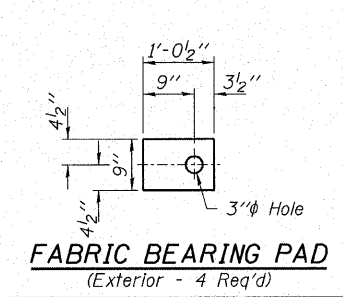
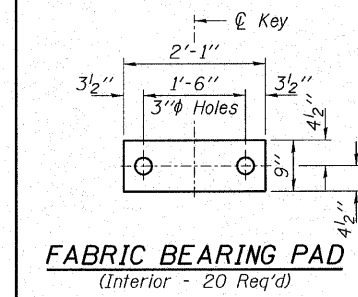
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
M.S. 2700	05-00186-00-BR 06-00001-00-BR	JEFFERSON	31	22
FED. ROAD DIST. NO.	ILLINOIS CONTRACT NO. 99297			



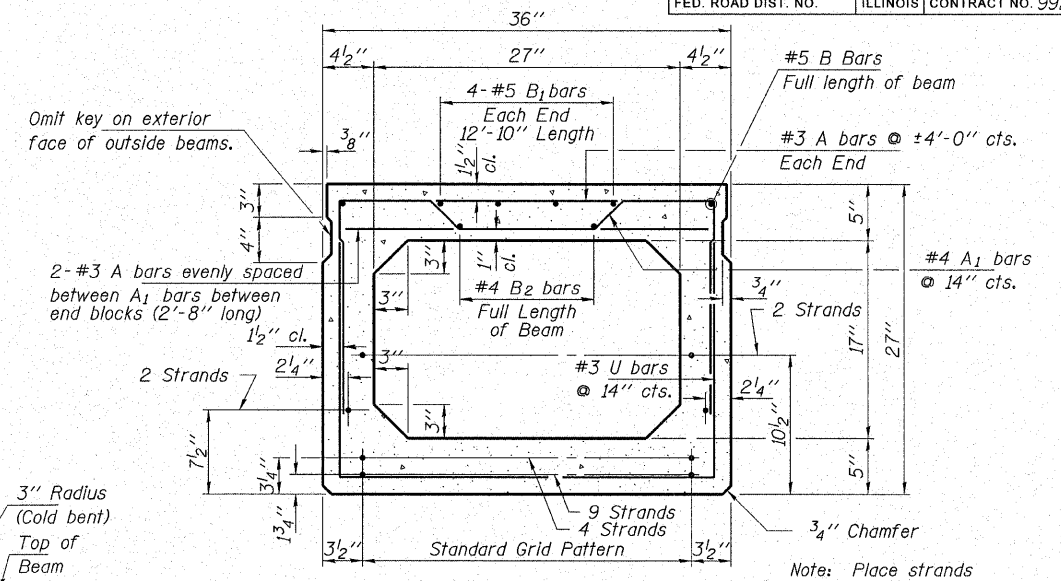
CROSS SECTION
(Looking East)



PLAN

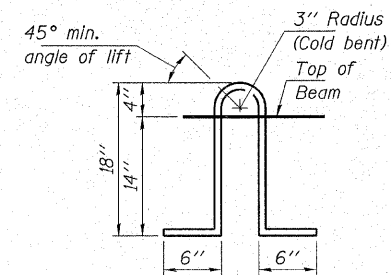


SECTION AT PIERS
@ Rt. L's



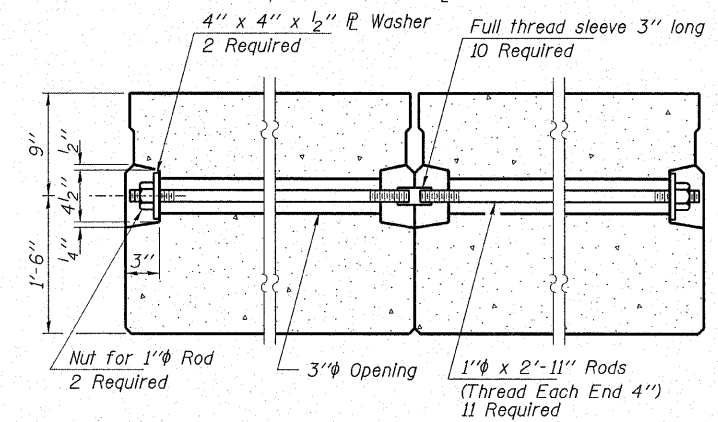
TYPICAL SECTION

Note: Place strands symmetrically about \bar{c} of beam.
17-1/2" ϕ Strands Each Strand Stressed to 30,900 Lbs.
9-Strands 13 3/4" up, 4-Strands 3 3/4" up, 2-Strands 7 1/2" up, 2-Strands 10 1/2" up
Expected Camber = 1/2"



LIFTING LOOP DETAIL

Approved alternate may be substituted for the above.
Note: The loop shall be formed in a manner such that all strands are engaged during lifting. Loops shall be cut off after beams have been erected.



TYPICAL TRANSVERSE TIE ASSEMBLY

NOTES

Prestressing steel shall be uncoated high strength, low-relaxation 7-wire strand, Grade 270. The nominal diameter shall be 1/2" and the nominal cross-sectional area shall be 0.153 sq. in. Lifting loops shall be 2-2" ϕ -270 ksi strands, as shown. Reinforcement bars shall conform to the requirements of ASTM A 706 Gr 60 (IL Modified). See Special Provisions.
The bearing seat surfaces shall be adjusted by shimming to assure firm and even bearing. Two 1/8" 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 beam and the bottom edge of the key.
Required Release Strength, f'ci, shall be 4,000 p.s.i.
The 1" ϕ 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.
A calcium nitrate corrosion inhibitor shall be used in the concrete for precast prestressed concrete deck beams.
See Sheet 23 for additional beam details.

BILL OF MATERIAL

ITEM	UNIT	QUANTITY
Precast Prestressed Concrete Deck Beams (27" Depth)	Sq. Ft.	2,112

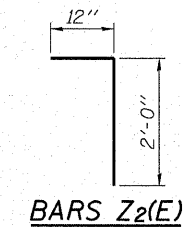
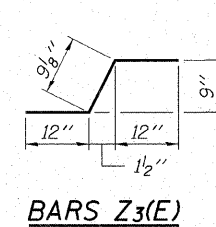
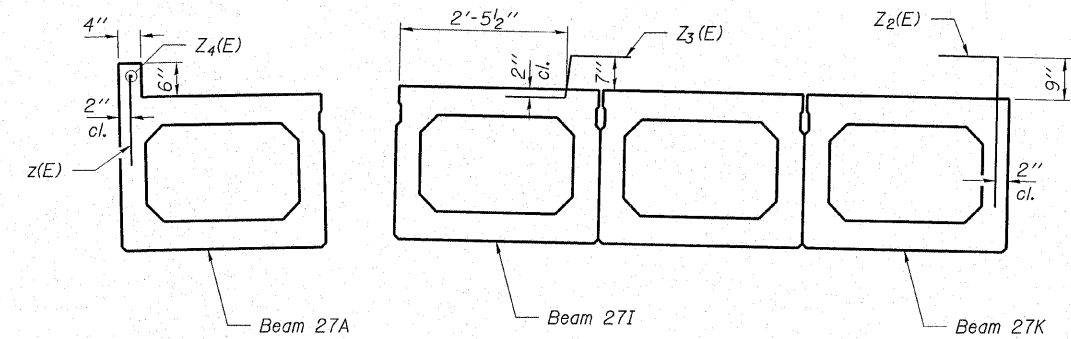
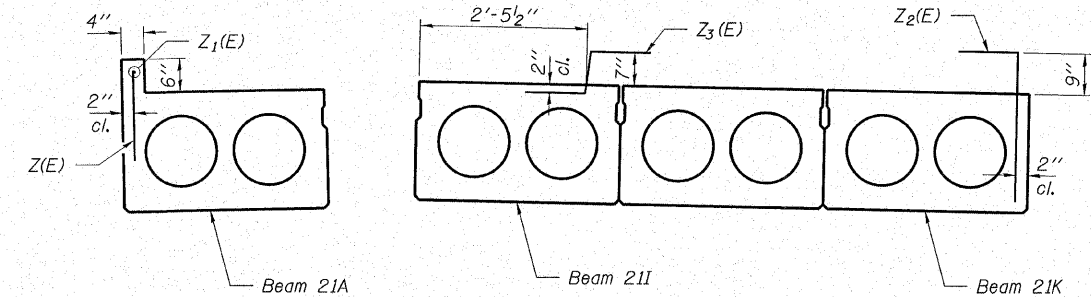
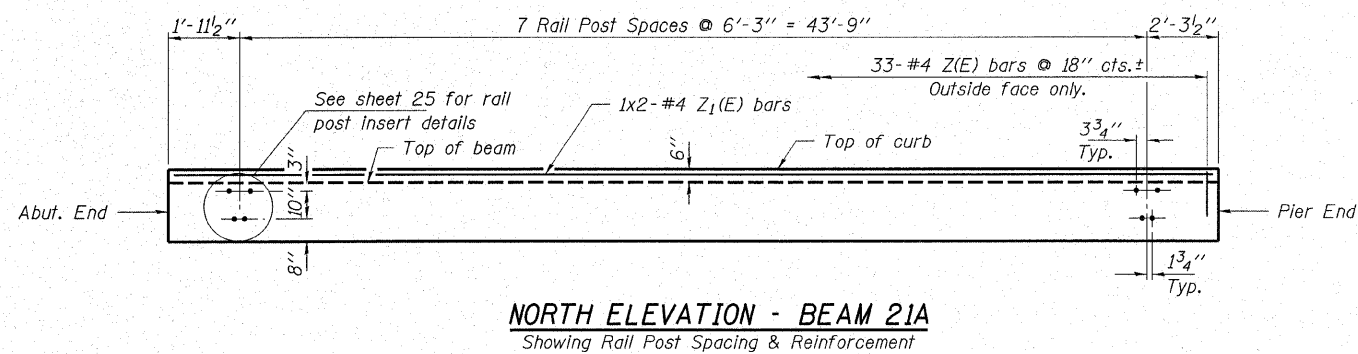
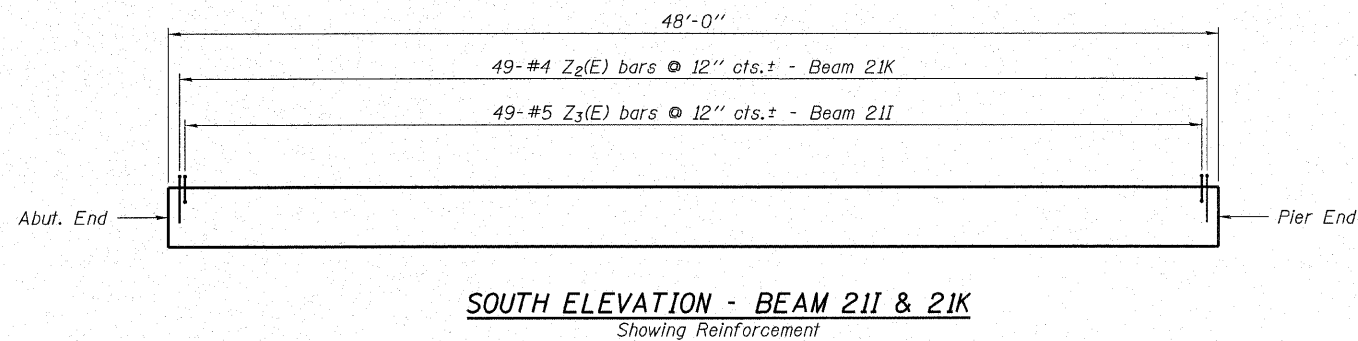
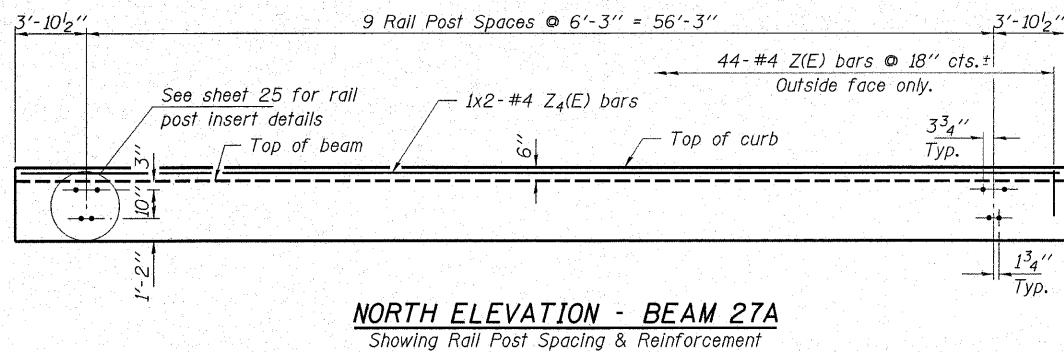
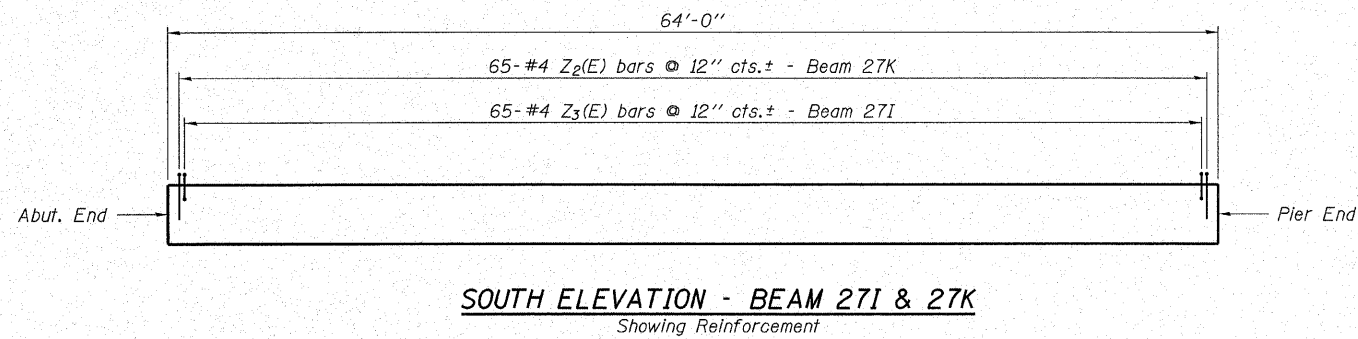
HAMPTON, LENZINI & RENWICK, INC.
CIVIL & STRUCTURAL ENGINEERS
LAND SURVEYORS
3085 STEVENSON DRIVE, SUITE 201
SPRINGFIELD, ILLINOIS 62703
(217) 546-3400

ELGIN • SPRINGFIELD

PROJECT NUMBER: 12-49-0005-1 DATE: 03/21/07
DESIGNED: R.J.P. CHECKED: S.W.M. DRAWN: D.B.

SUPERSTRUCTURE - SPAN 2
SECTIONS 05-00186-00-BR / 06-00001-00-BR
VILLAGE OF BLUFORD
JEFFERSON COUNTY
STRUCTURE NO. 041-9931 / STATION 10+00

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
M.S. 2700	05-00186-00-BR 06-00001-00-BR	JEFFERSON	31	23
FED. ROAD DIST. NO.		ILLINOIS CONTRACT NO. 99297		



FOR INFORMATION ONLY

BAR	NO.	SIZE	LENGTH	SHAPE
Z(E)	110	#4	1'-4"	—
Z1(E)	4	#4	24'-6"	—
Z2(E)	163	#4	3'-0"	—
Z3(E)	163	#5	2'-9"	┘
Z4(E)	2	#4	32'-6"	—

Cost of reinforcement shall be included in deck beams. Reinforcement bars designated (E) shall be epoxy coated.

MIN. BAR LAP
#4.....1'-3"

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LAND SURVEYORS

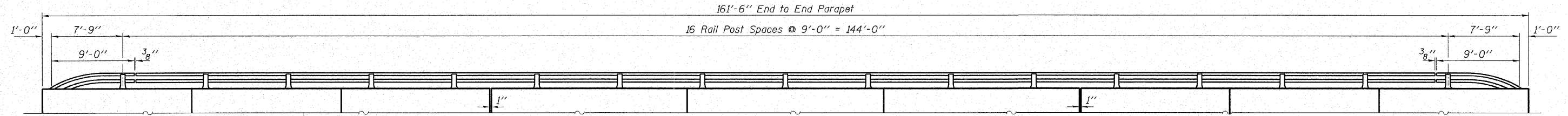
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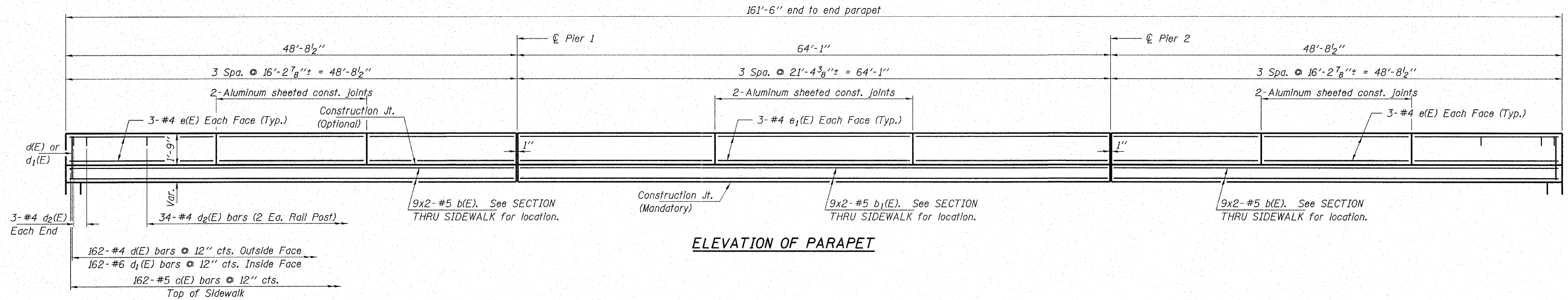
ELGIN • SPRINGFIELD

PROJECT NUMBER: 12-49-0005-1 DATE: 03/21/07
DESIGNED: R.J.P. CHECKED: S.W.M. DRAWN: D.B.

SUPERSTRUCTURE DETAILS
SECTIONS 05-00186-00-BR / 06-00001-00-BR
VILLAGE OF BLUFORD
JEFFERSON COUNTY
STRUCTURE NO. 041-9931 / STATION 10+00

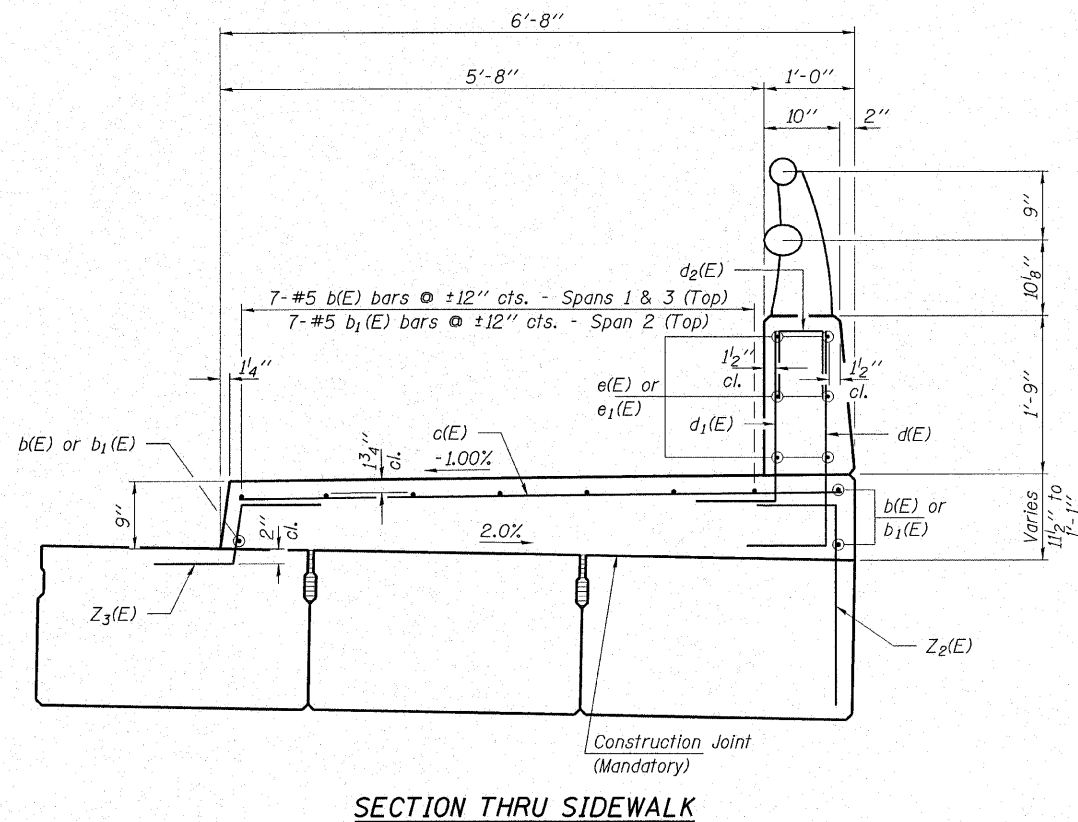


ELEVATION OF RAILING



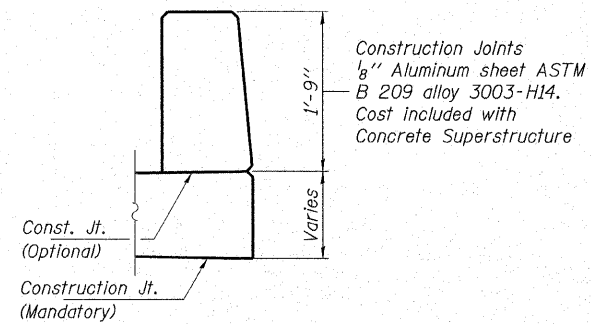
ELEVATION OF PARAPET

MIN. BAR LAPS
#5.....1'-7"



SECTION THRU SIDEWALK

Note: Sidewalk thickness shall be adjusted based on camber of beam to pour sidewalk on longitudinal grade parallel with profile grade.

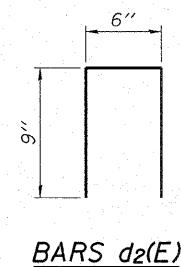
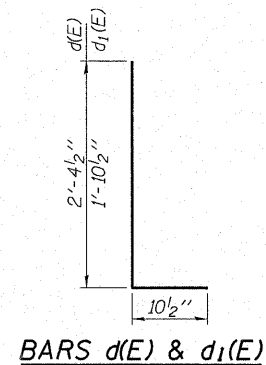


PARAPET JOINT DETAILS

**SUPERSTRUCTURE
BILL OF MATERIAL**

Bar	No.	Size	Length	Shape
b(E)	36	#5	25'-0"	—
b1(E)	18	#5	32'-8"	—
c(E)	162	#5	6'-4"	—
d(E)	162	#4	3'-3"	—
d1(E)	162	#6	2'-9"	—
d2(E)	40	#4	2'-0"	—
e(E)	36	#4	15'-11"	—
e1(E)	18	#4	21'-1"	—
Concrete Superstructures			Cu. Yd.	44.6
Protective Coat			Sq. Yd.	100
Reinforcement Bars, Epoxy Coated			Pound	4,320

Note: Quantity for Protective Coat includes parapet and sidewalk.



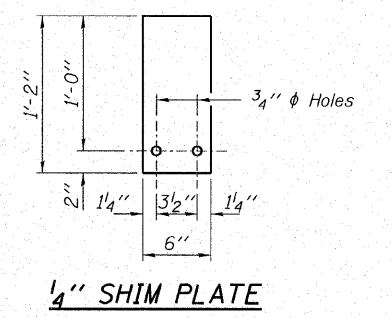
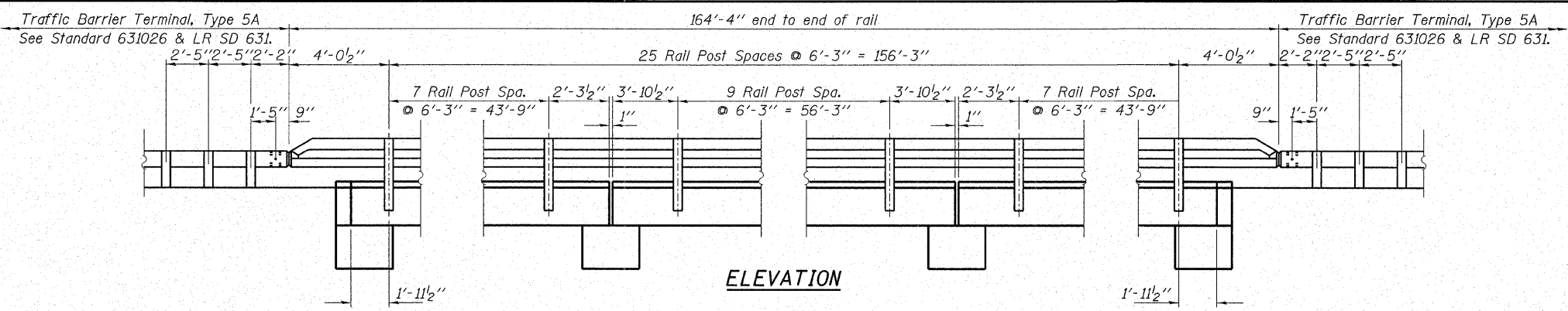
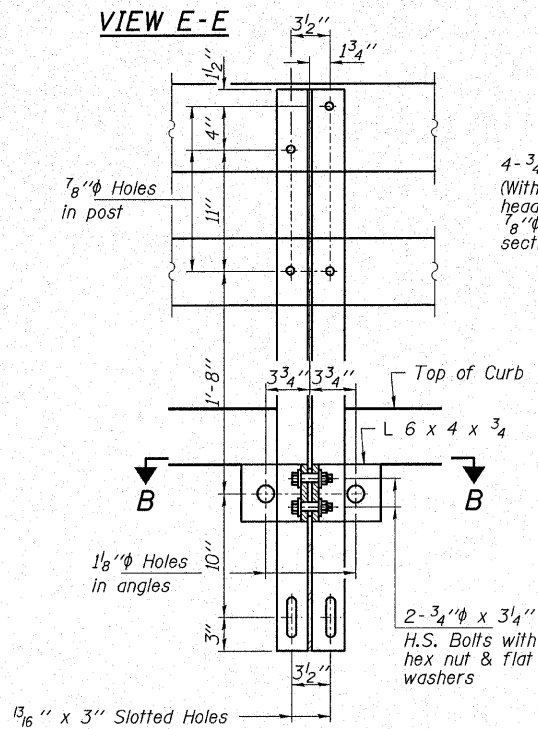
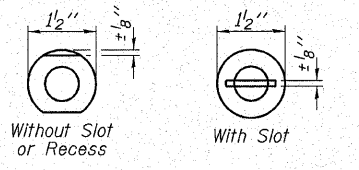
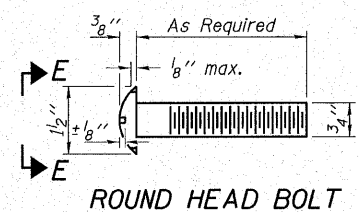
HAMPTON, LENZINI & RENWICK, INC.
CIVIL & STRUCTURAL ENGINEERS
LAND SURVEYORS
3085 STEVENSON DRIVE, SUITE 201
SPRINGFIELD, ILLINOIS 62703
(217) 546-3400

ELGIN • SPRINGFIELD

PROJECT NUMBER: 12-49-0005-1 DATE: 03/21/07
DESIGNED: R.J.P. CHECKED: S.W.M. DRAWN: D.B.

PARAPET DETAILS
SECTIONS 05-00186-00-BR / 06-00001-00-BR
VILLAGE OF BLUFORD
JEFFERSON COUNTY
STRUCTURE NO. 041-9931 / STATION 10+00

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
M.S. 2700	05-00186-00-BR 06-00001-00-BR	JEFFERSON	31	25
FED. ROAD DIST. NO.	ILLINOIS CONTRACT NO. 99297			



NOTES

Hollow structural sections shall conform to the requirements of ASTM designation 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 AASHTO M 270, Grade 36 except posts and angles shall conform to AASHTO M 270, Grade 50.

Bolts, cap screws, and nuts shall conform to the requirements of ASTM designation A 307 except for high strength bolts, nuts and washers noted which shall conform to AASHTO M 164.

All bolts, nuts, cap screws, washers and lockwashers shall be galvanized according to AASHTO M 232.

All posts, railing, rail splices, anchor devices and angles shall be galvanized after shop fabrication according to AASHTO M 111 and ASTM A 385. Galvanized rail shall not be painted.

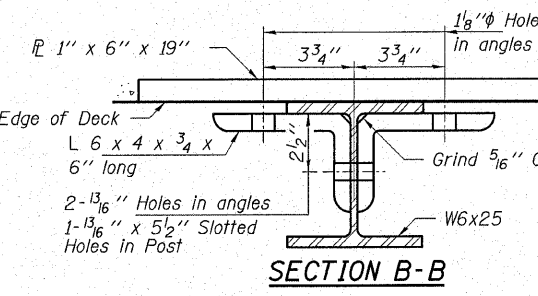
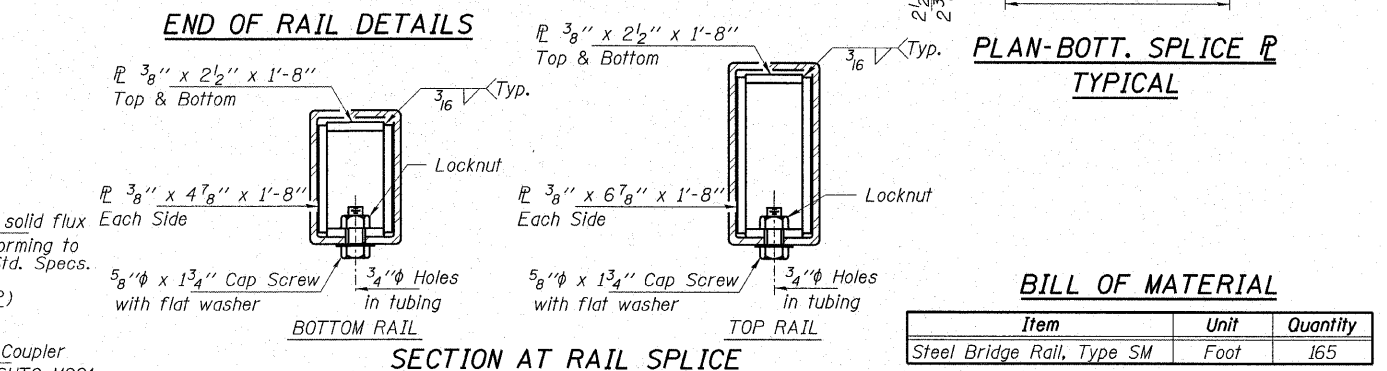
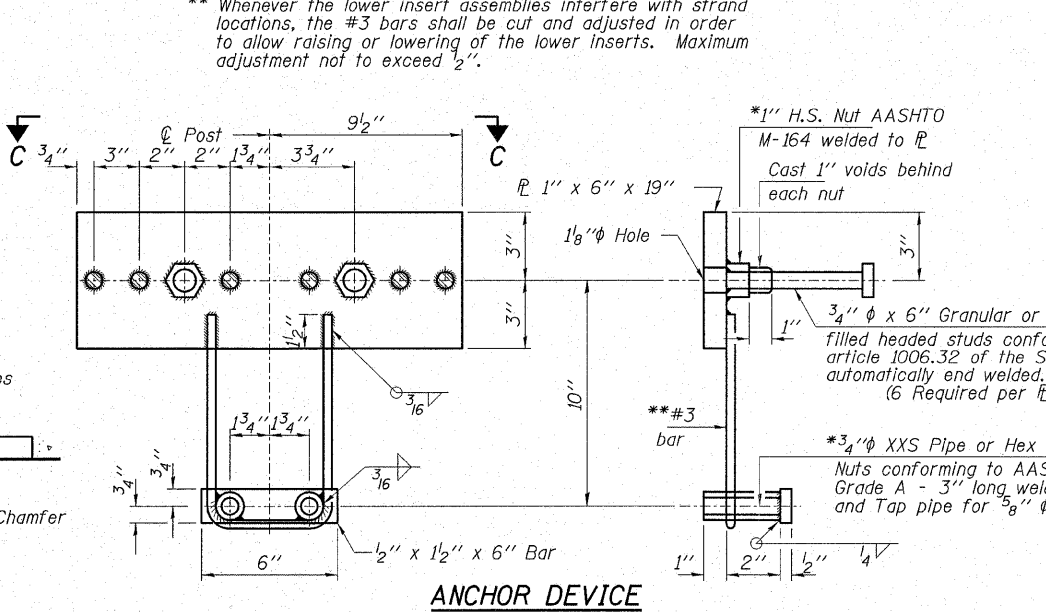
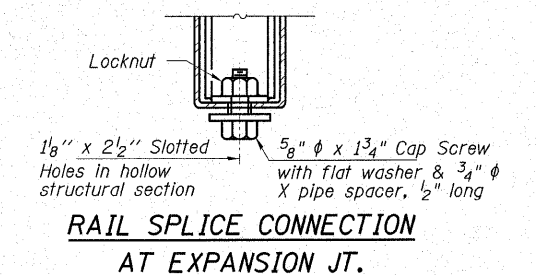
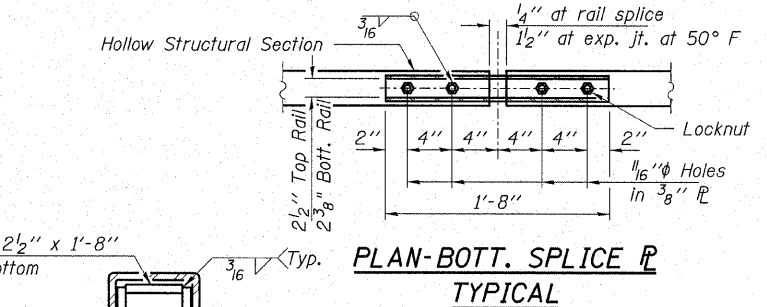
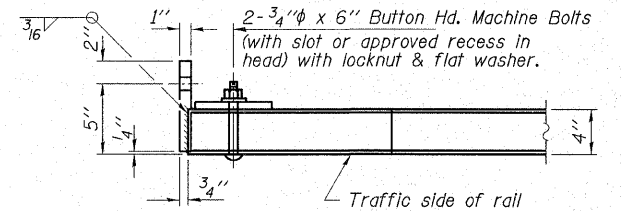
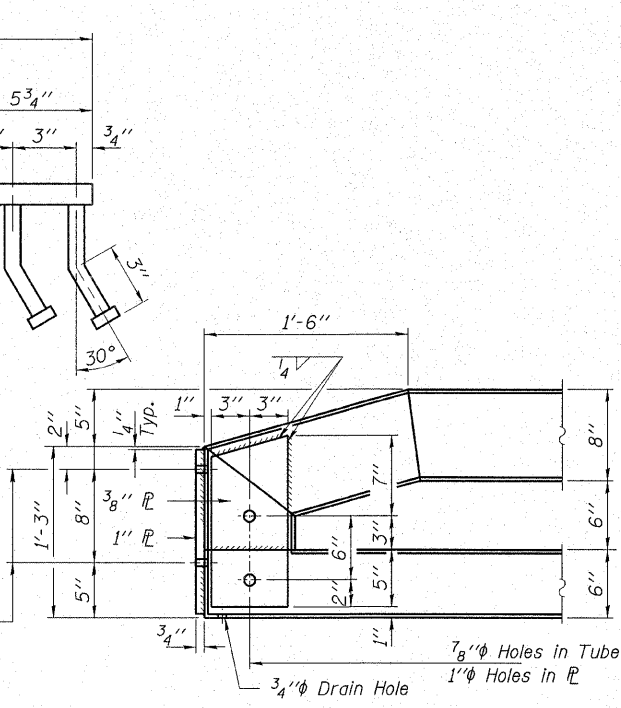
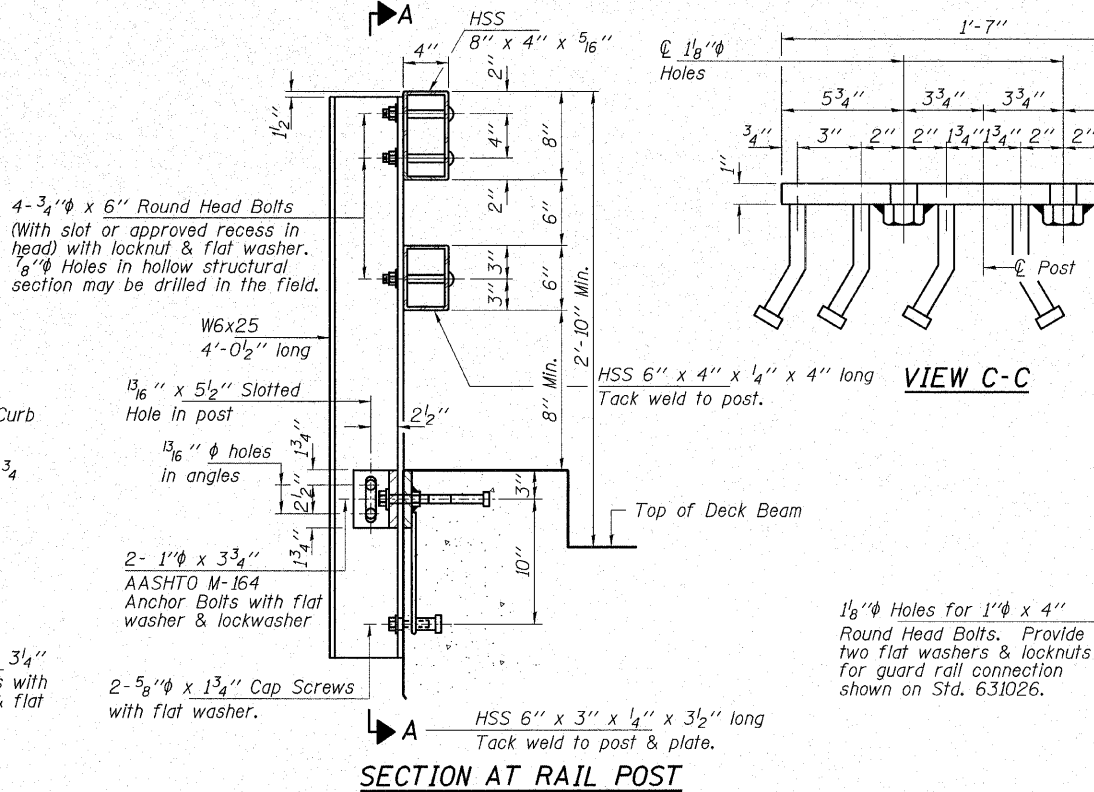
Railing shall be according to Section 509 of the Standard Specifications, except as noted, and will be paid for at the contract unit price per foot for STEEL BRIDGE RAIL, TYPE SM.

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

The 1/2" x 7" x 6" plates that come in contact with concrete shall receive two coats of asphalt paint conforming to Section 1060.07 Type II or place 1/8" fabric bearing pads between the plates and concrete.

The 3/4" diameter high strength bolts used to connect the 6 x 4 x 3/4 angles to the post shall be tightened according to Art. 505.04(F)(2) of the Standard Specifications. The 1" diameter high strength bolts connecting the angles to the concrete shall be tightened to a snug fit and given an additional 1/2 turn. The 5/8" diameter cap screws in bottom of posts shall be tightened to a snug fit only.

For multi-span bridges, sufficient 1/4" x 6" x 1'-2" galvanized steel shims shall be provided to align rail between adjacent spans. Cost included with Steel Railing, Type SM.



BILL OF MATERIAL

Item	Unit	Quantity
Steel Bridge Rail, Type SM	Foot	165

** 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 2".

1/8" diameter Holes for 1" x 4" Round Head Bolts. Provide two flat washers & locknuts for guard rail connection shown on Std. 631026.

*1" H.S. Nut AASHTO M-164 welded to R
Cast 1" voids behind each nut

3/4" x 6" Granular or solid flux filled headed studs conforming to article 1006.32 of the Std. Specs. automatically end welded. (6 Required per R)

*3/4" XXS Pipe or Hex Coupler Nuts conforming to AASHTO M291. Grade A - 3" long welded to #3 bar and Tap pipe for 5/8" Cap Screw.

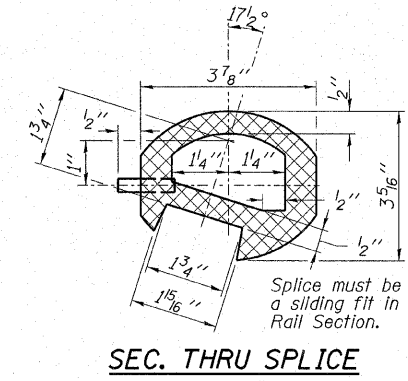
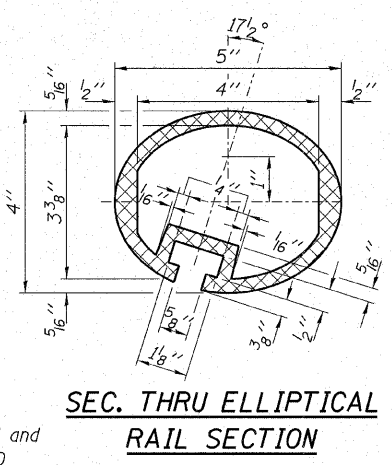
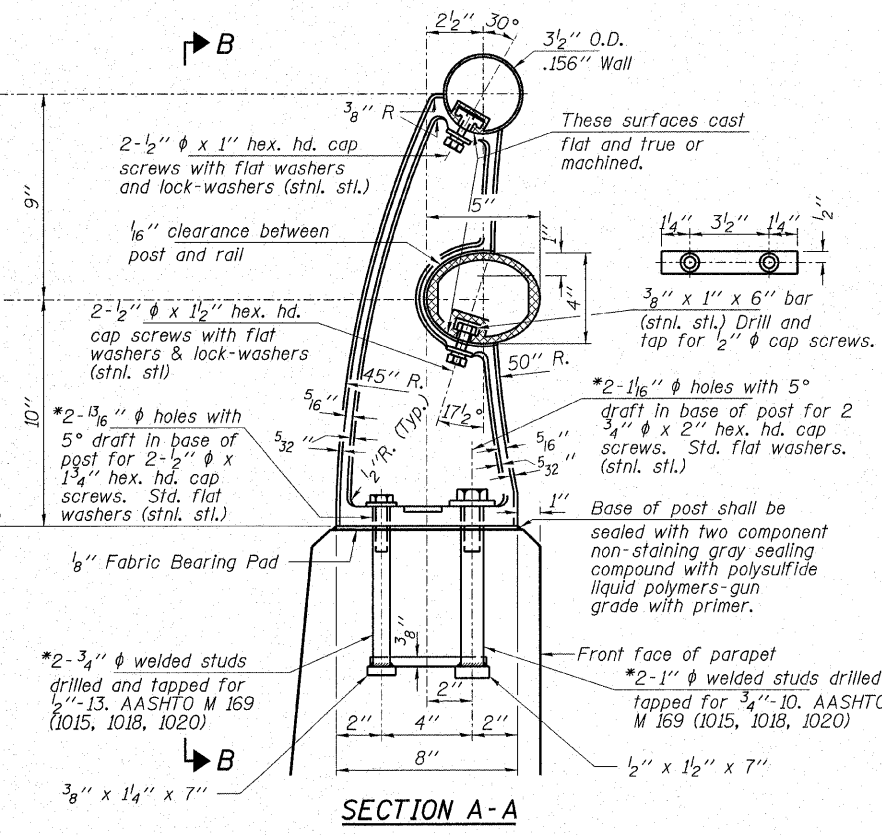
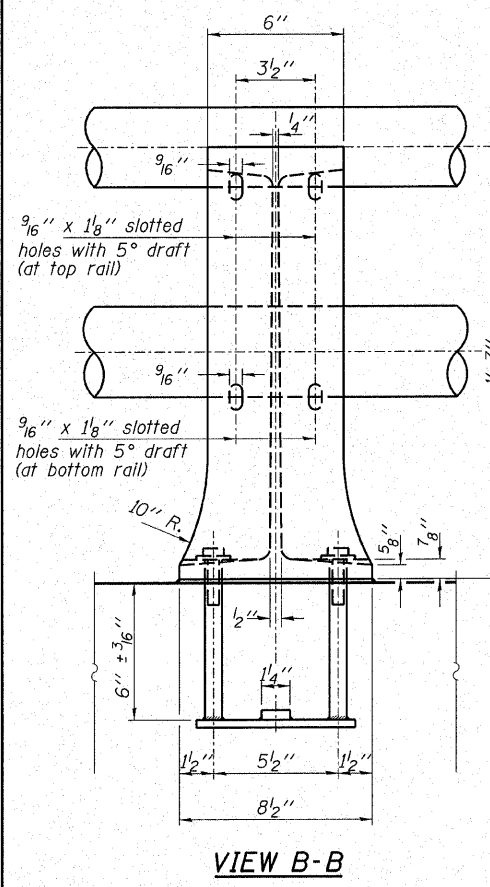
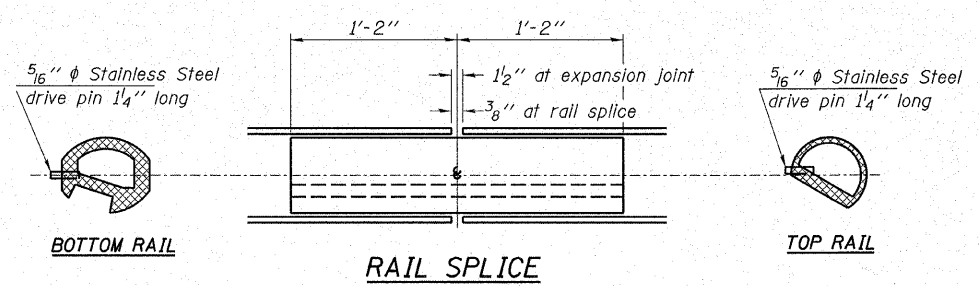
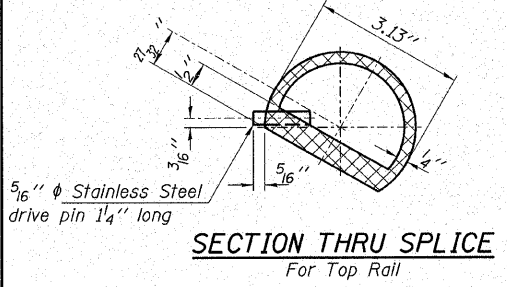
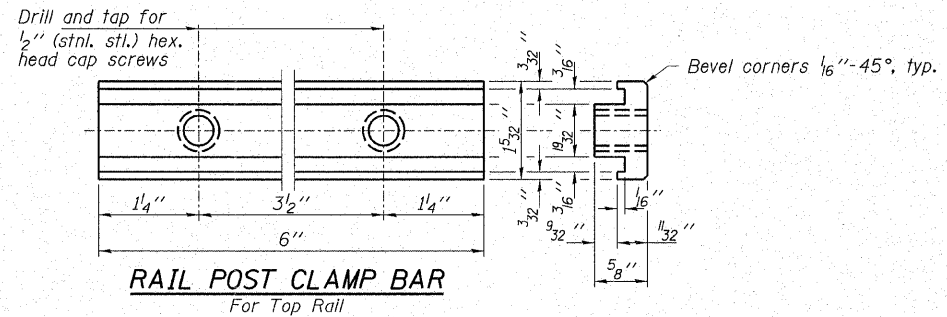
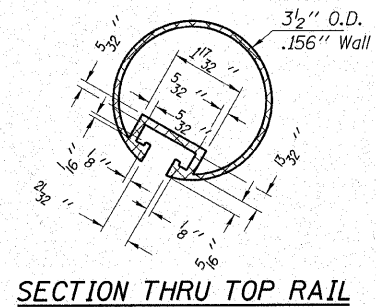
* Threaded areas shall be plugged or blocked off during casting of beam. Galvanized after fabrication.

HAMPTON, LENZINI & RENWICK, INC.
 CIVIL & STRUCTURAL ENGINEERS
 LAND SURVEYORS
 3085 STEVENSON DRIVE, SUITE 201
 SPRINGFIELD, ILLINOIS 62703
 (217) 546-3400

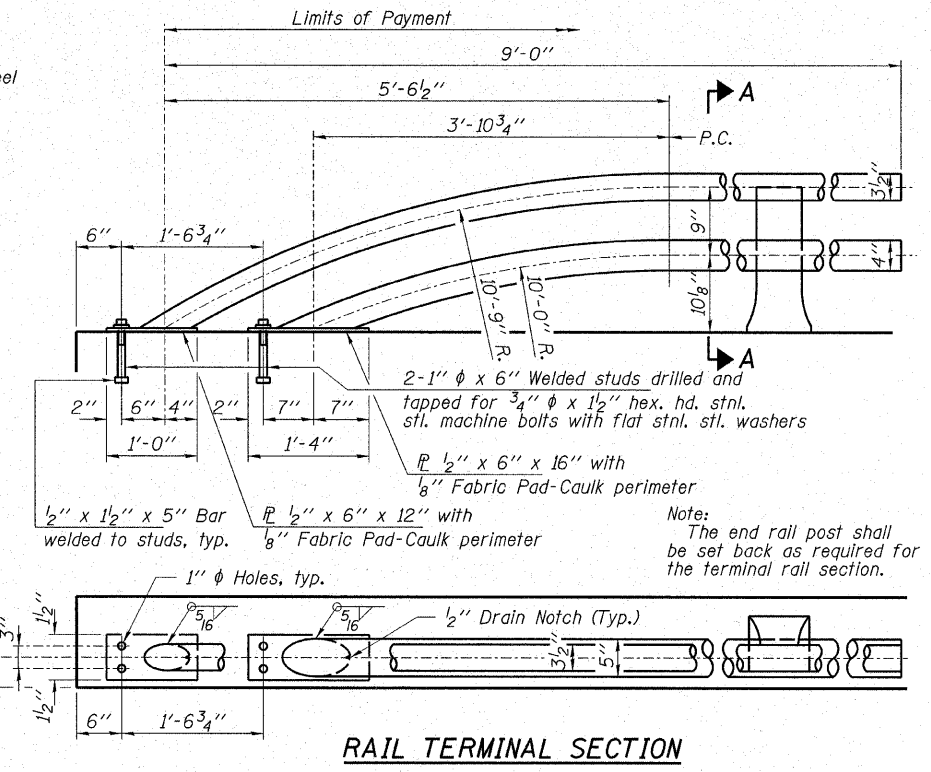
ELGIN • SPRINGFIELD

PROJECT NUMBER: 12-49-0005-1 DATE: 03/21/07
 DESIGNED: R.J.P. CHECKED: S.W.M. DRAWN: D.B.

RAILING DETAILS
 SECTIONS 05-00186-00-BR / 06-00001-00-BR
 VILLAGE OF BLUFORD
 JEFFERSON COUNTY
 STRUCTURE NO. 041-9931 / STATION 10+00



Notes:
 All Posts shall be normal to parapet.
 All Aluminum Alloy Extruded Rail shall be supplied in modular lengths of 30 feet, except at the end of bridge or over open joints in bridge deck where the rail shall be attached to a minimum of 2 posts. If the rail is on a horizontal curve of 2300 foot radius or less, the modular lengths may be reduced but shall be attached to a minimum of 2 posts.
 All joints in rail shall be spliced per detail.
 Provide 1-8 inch and 2-1/16 inch Aluminum Shims for 25% of the Posts.
 Rail elements shall be parallel to Grade-high spots will be ground and low spots shimmed.
 Railing shall be according to Section 509 of the Standard Specifications, except as noted, and will be paid for at the contract unit price per foot for ALUMINUM RAILING, TYPE L.
 Aluminum alloy rail shall conform to ASTM B 221 alloy 6061-T6 or 6351-T5 with min. yield 35 ksi, min. tensile 38 ksi, and elongation of 10% in 2 inches.



RAIL POST DETAILS

SEC. THRU ELLIPTICAL RAIL SECTION

SEC. THRU SPLICE

RAIL TERMINAL SECTION

BILL OF MATERIAL

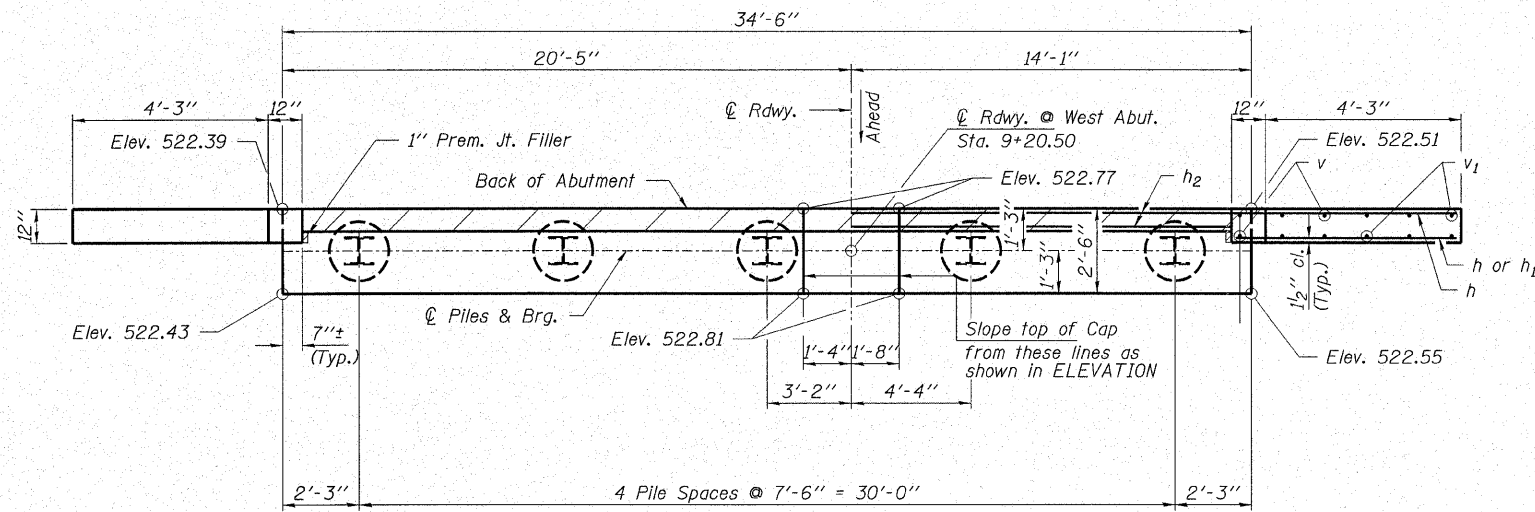
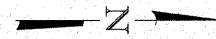
Item	Unit	Quantity
Aluminum Railing, Type L	Foot	160

*In lieu of the cast-in-place anchor device shown, the Contractor has the option of drilling and epoxy grouting stainless steel anchor rods of the same diameter and grade as the specified cap screws. Embedment shall be according to the manufacturer's specifications.

HAMPTON, LENZINI & RENWICK, INC.
 CIVIL & STRUCTURAL ENGINEERS
 LAND SURVEYORS
 3085 STEVENSON DRIVE, SUITE 201
 SPRINGFIELD, ILLINOIS 62703
 (217) 546-3400
 ELGIN • SPRINGFIELD
 PROJECT NUMBER: 12-49-0005-1 DATE: 03/21/07
 DESIGNED: R.J.P. CHECKED: S.W.M. DRAWN: D.B.

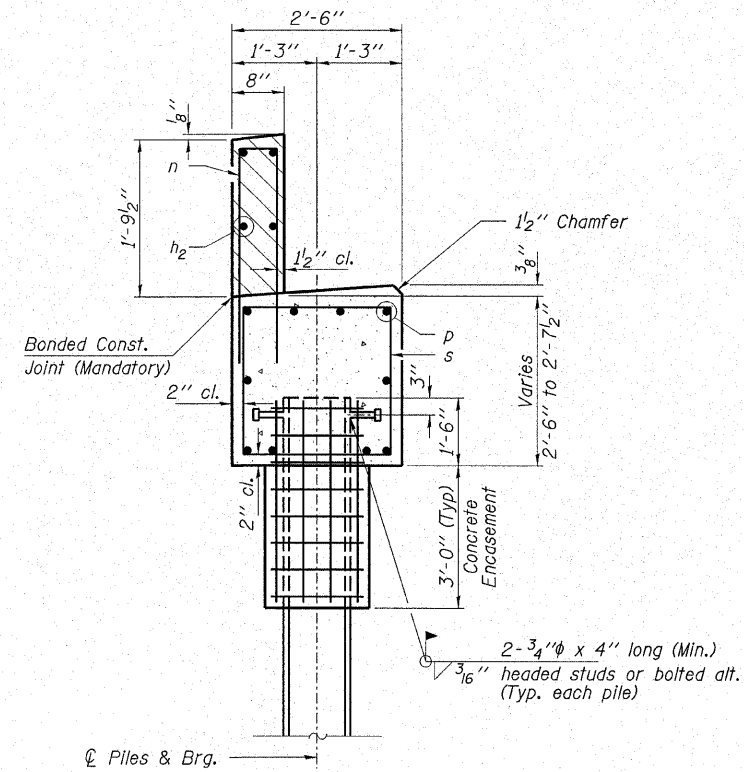
RAILING DETAILS
 SECTIONS 05-00186-00-BR / 06-00001-00-BR
 VILLAGE OF BLUFORD
 JEFFERSON COUNTY
 STRUCTURE NO. 041-9931 / STATION 10+00

ROUTE NO. M.S. 2700	SECTION 05-00186-00-BR 06-00001-00-BR	COUNTY JEFFERSON	TOTAL SHEETS 31	SHEET NO. 27
FED. ROAD DIST. NO.		ILLINOIS CONTRACT NO. 99297		



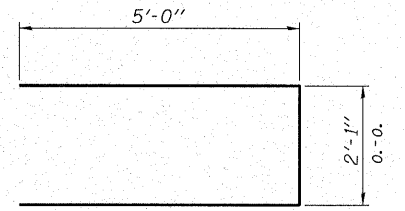
PLAN

Note: Elevations shown in PLAN are to Top of Cap.

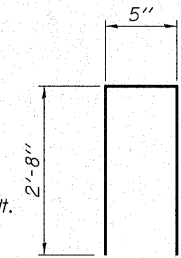


SECTION A-A

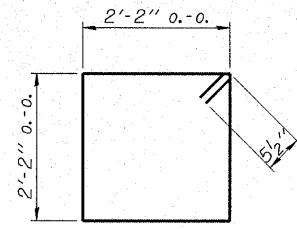
Hatched area to be poured after beams are in place.



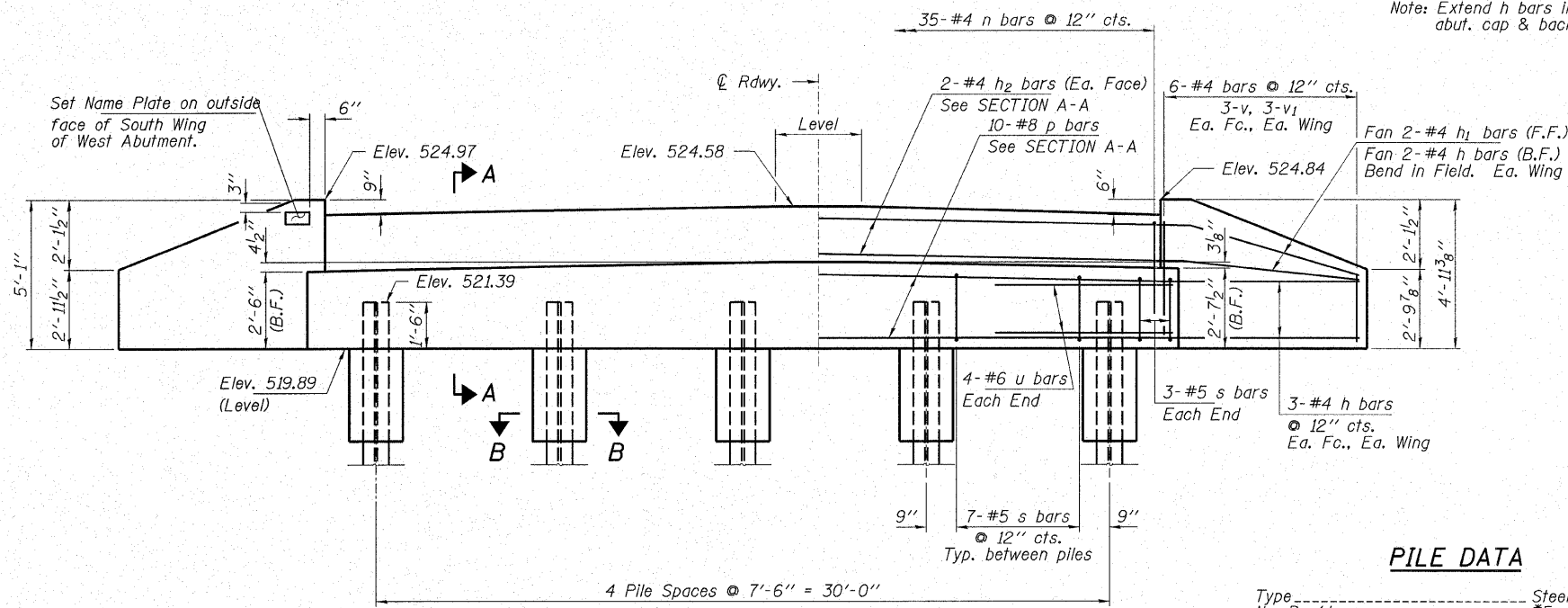
BAR u



BAR n

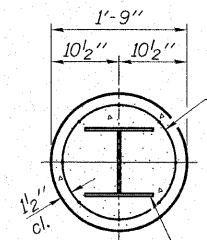


BAR s



ELEVATION
(Looking West)

Note: Extend h bars into abut. cap & backwall.



SECTION B-B

Steel Pile HP10x42

PILE DATA

Type	Steel HP10x42
No. Req'd	*5
Nominal Req'd Bearing	335 Kips/Pile
Allowable Resistance Available	112 Kips/Pile
Est. Lengths	20 Ft./Pile

Notes: The Steel H-Piles shall be according to AASHTO M270 Grade 50.

The test piles shall be driven to 110 percent of the Nominal Required Bearing indicated in the pile data information

* Includes one test pile to be driven in permanent location at the West Abutment.

BILL OF MATERIAL - WEST ABUT.

BAR	NO.	SIZE	LENGTH	SHAPE
h	16	#4	6'-6"	—
h1	4	#4	5'-0"	—
h2	4	#4	34'-2"	—
n	35	#4	5'-9"	—
p	10	#8	34'-2"	—
s	34	#5	9'-7"	□
u	8	#6	12'-1"	—
v	12	#4	3'-9"	—
v1	12	#4	2'-3"	—
Concrete Structures		Cu. Yd.	12.0	
Concrete Encasement		Cu. Yd.	1.3	
Stud Shear Connectors		Each	10	
Reinforcement Bars		Pound	1,750	
Steel Piles HP10x42		Foot	80	
Test Pile Steel HP10x42		Each	1	
Name Plates		Each	1	

HAMPTON, LENZINI & RENWICK, INC.
CIVIL & STRUCTURAL ENGINEERS
LAND SURVEYORS

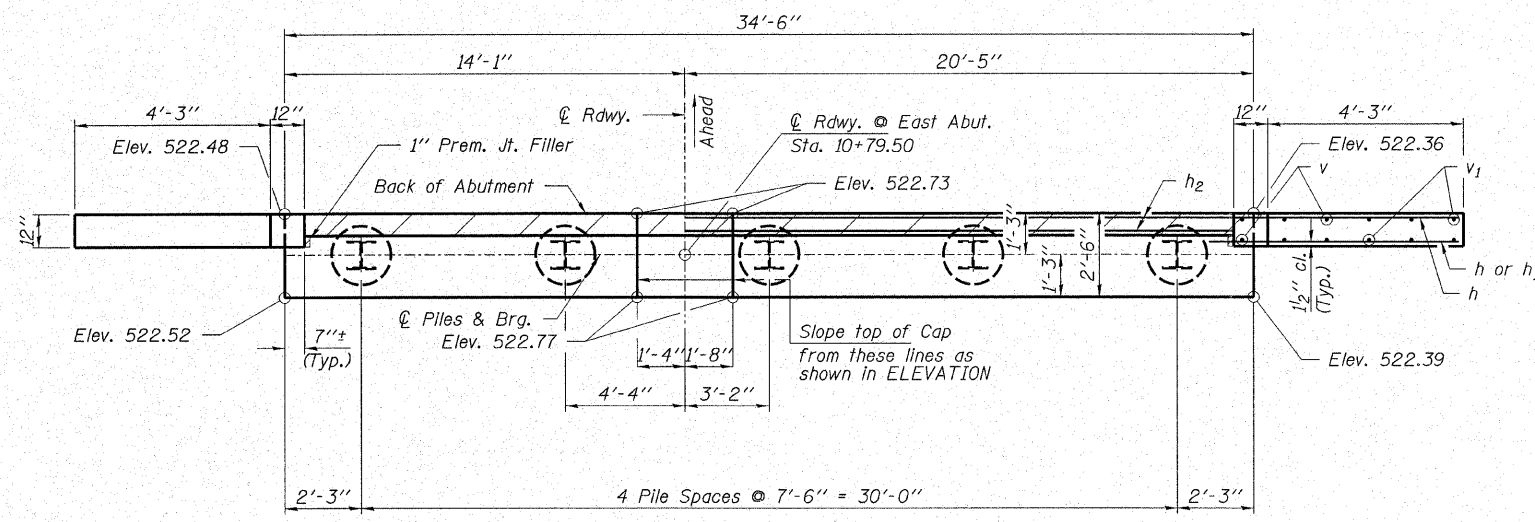
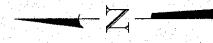
3085 STEVENSON DRIVE, SUITE 201
SPRINGFIELD, ILLINOIS 62703
(217) 546-3400

HLR

ELGIN • SPRINGFIELD

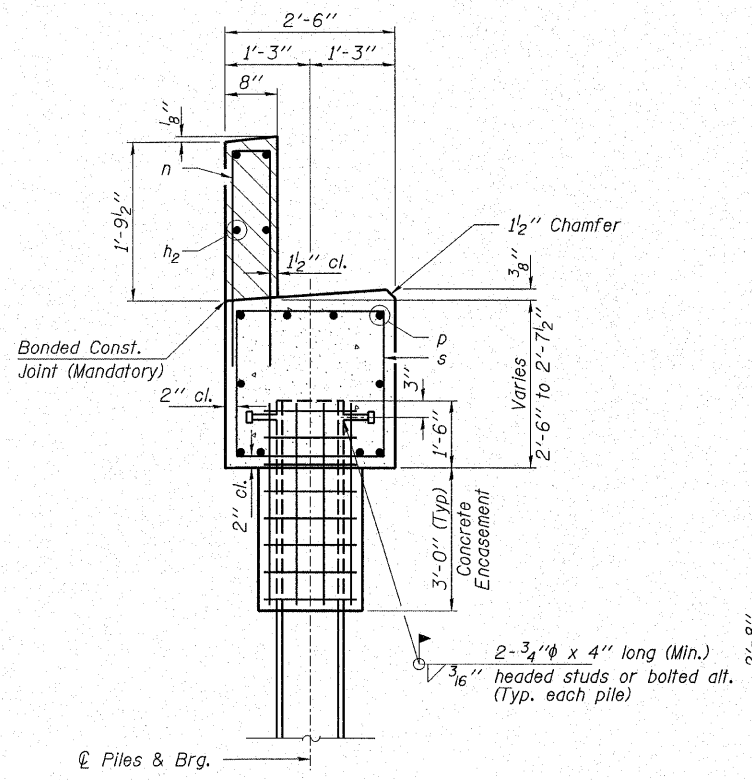
PROJECT NUMBER: 12-49-0005-1 DATE: 03/21/07
DESIGNED: R.J.P. CHECKED: S.W.M. DRAWN: D.B.

WEST ABUTMENT
SECTIONS 05-00186-00-BR / 06-00001-00-BR
VILLAGE OF BLUFORD
JEFFERSON COUNTY
STRUCTURE NO. 041-9931 / STATION 10+00



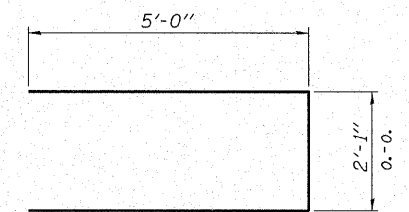
PLAN

Note: Elevations shown in PLAN are to Top of Cap.

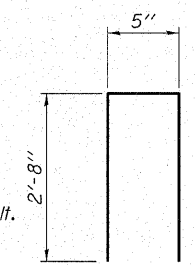


SECTION A-A

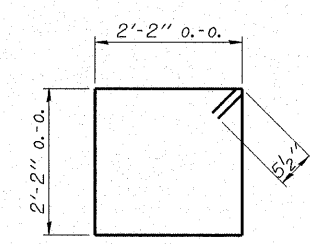
Hatched area to be poured after beams are in place.



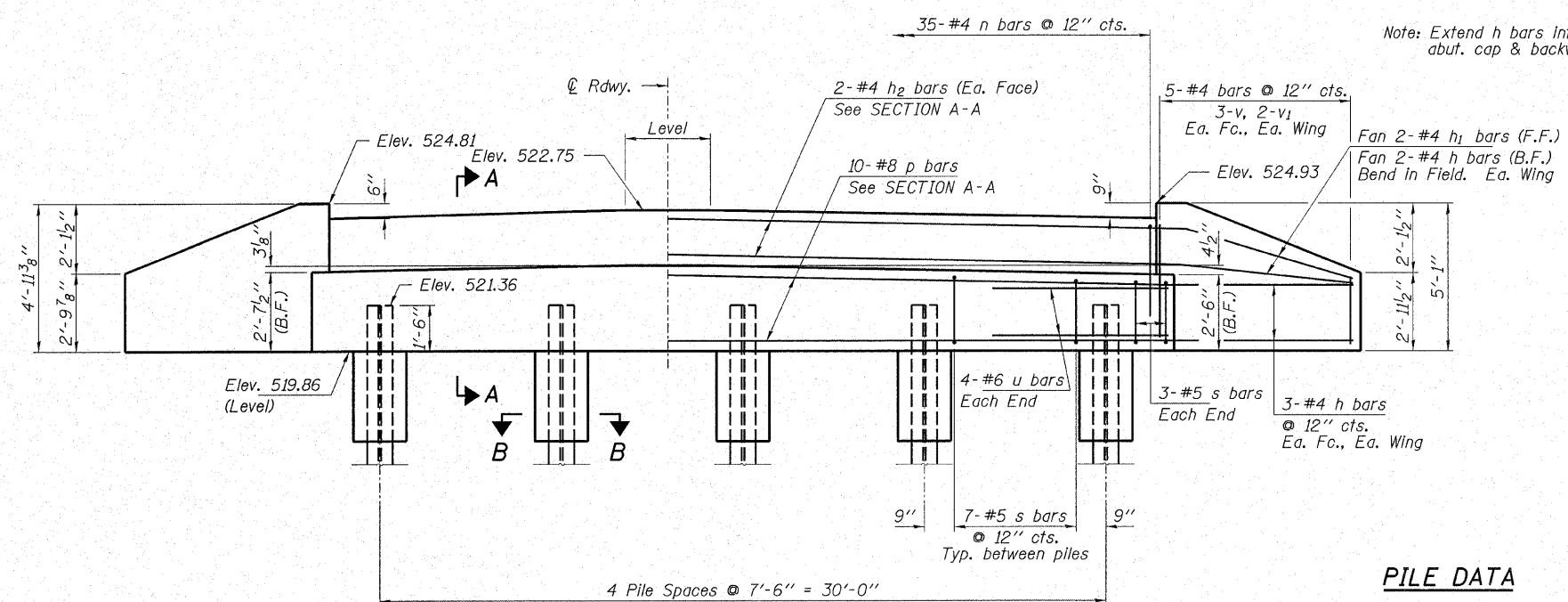
BAR u



BAR n



BAR s



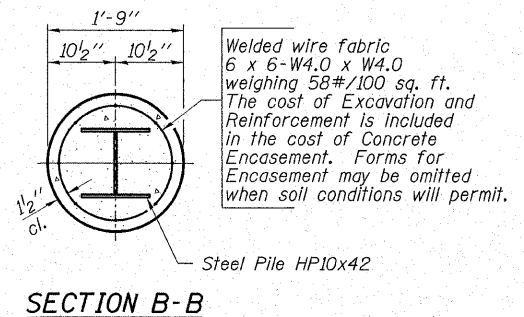
ELEVATION

(Looking East)

PILE DATA

Type	Steel HPI0x42
No. Req'd	5
Nominal Req'd Bearing	335 Kips/Pile
Allowable Resistance Available	112 Kips/Pile
Est. Lengths	30 Ft/Pile

Notes: The Steel H-Piles shall be according to AASHTO M270 Grade 50.



SECTION B-B

BILL OF MATERIAL - EAST ABUT.

BAR	NO.	SIZE	LENGTH	SHAPE
h	16	#4	6'-6"	—
h1	4	#4	5'-0"	—
h2	4	#4	34'-2"	—
n	35	#4	5'-9"	⊓
p	10	#8	34'-2"	—
s	34	#5	9'-7"	□
u	8	#6	12'-1"	⊓
v	12	#4	3'-9"	—
v1	12	#4	2'-3"	—
Concrete Structures			Cu. Yd.	12.0
Concrete Encasement			Cu. Yd.	1.3
Stud Shear Connectors			Each	10
Reinforcement Bars			Pound	1,750
Steel Piles HPI0x42			Foot	150

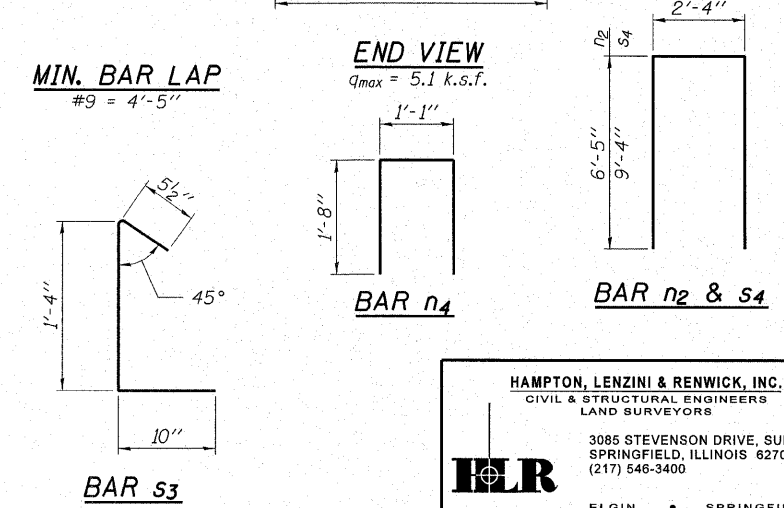
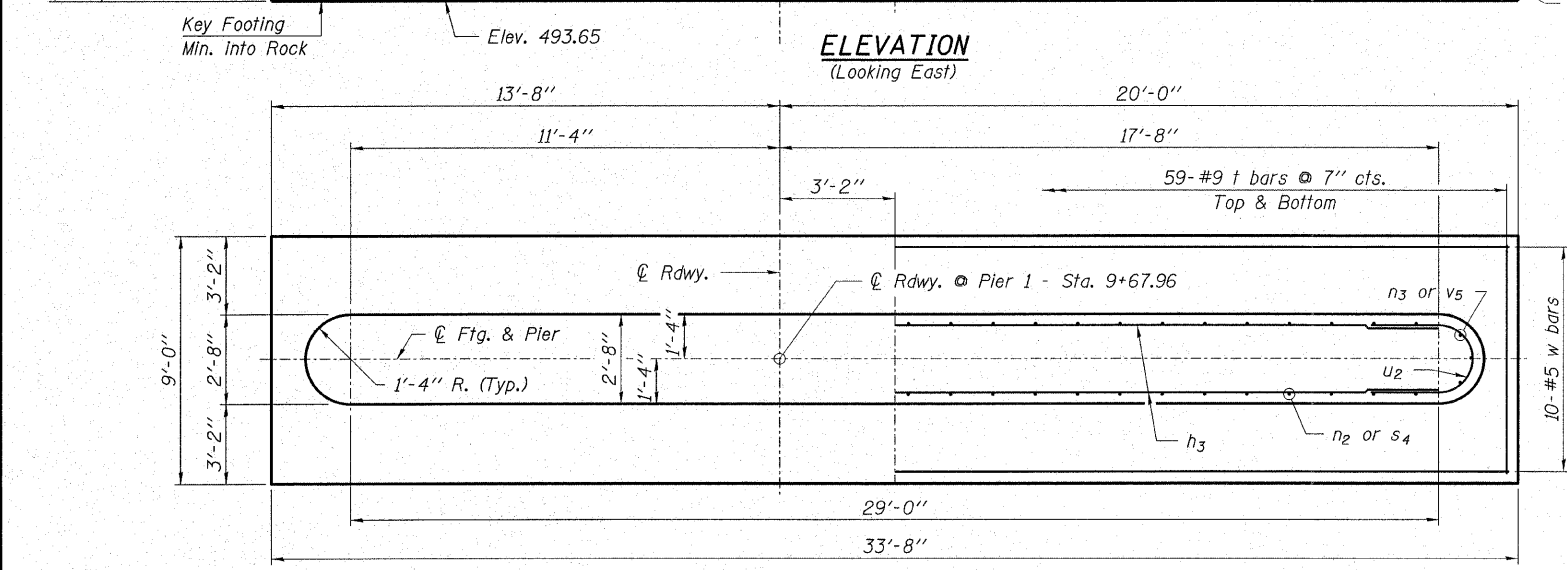
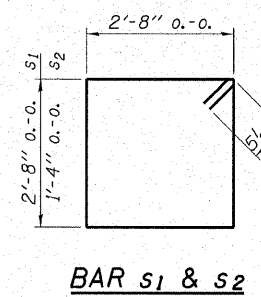
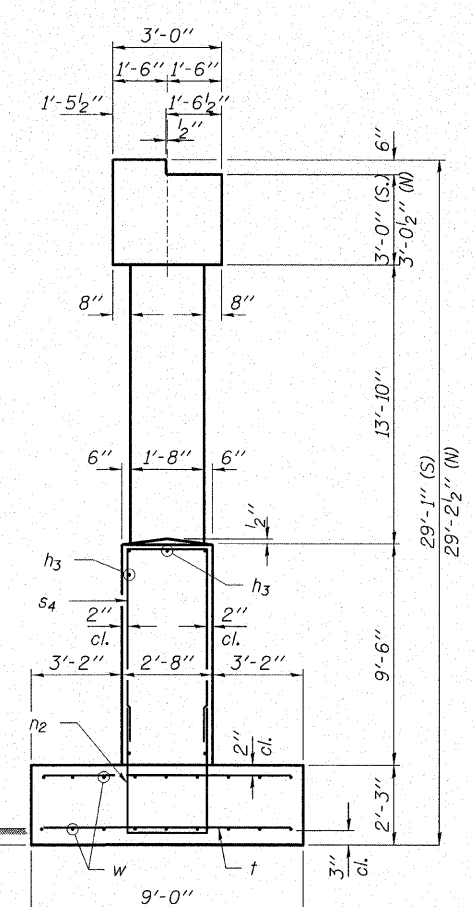
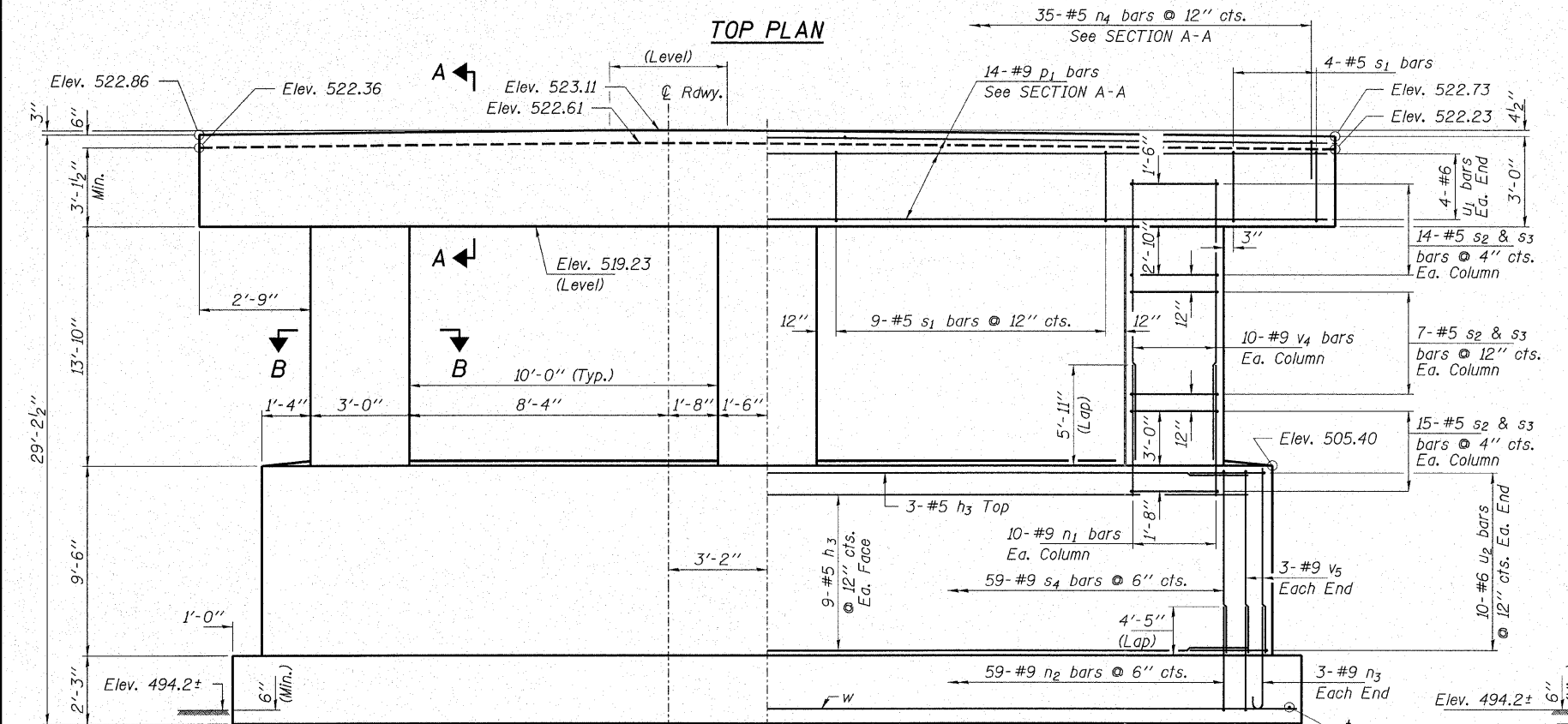
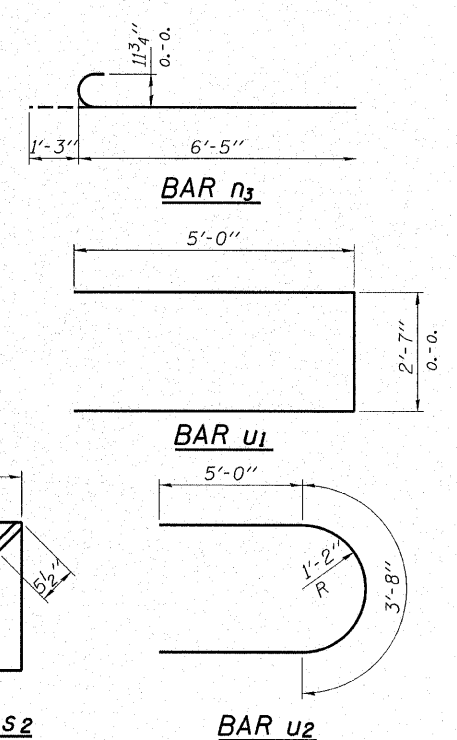
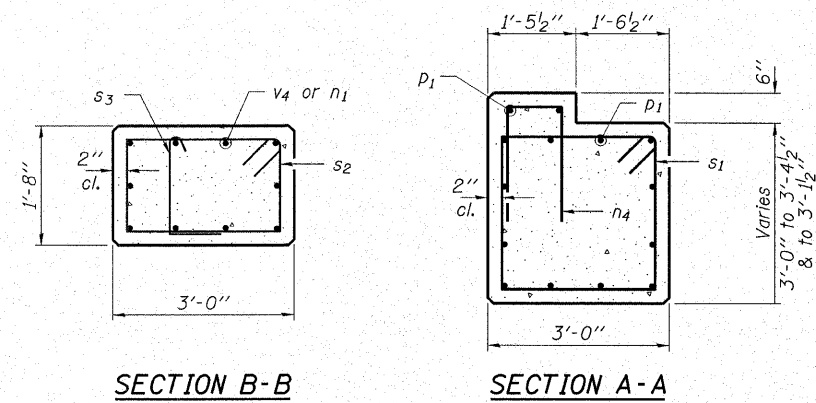
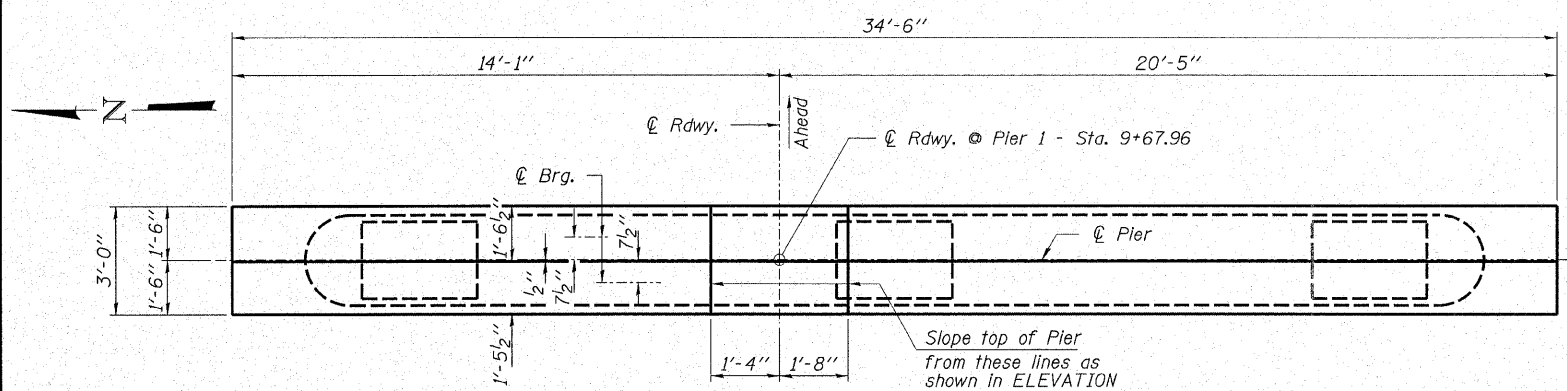
HAMPTON, LENZINI & RENWICK, INC.
 CIVIL & STRUCTURAL ENGINEERS
 LAND SURVEYORS
 3085 STEVENSON DRIVE, SUITE 201
 SPRINGFIELD, ILLINOIS 62703
 (217) 546-3400

ELGIN • SPRINGFIELD

PROJECT NUMBER: 12-49-0005-1 DATE: 03/21/07
 DESIGNED: R.J.P. CHECKED: S.W.M. DRAWN: D.B.

EAST ABUTMENT
 SECTIONS 05-00186-00-BR / 06-00001-00-BR
 VILLAGE OF BLUFORD
 JEFFERSON COUNTY
 STRUCTURE NO. 041-9931 / STATION 10+00

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
M.S. 2700	05-00186-00-BR 06-00001-00-BR	JEFFERSON	31	29
FED. ROAD DIST. NO.	ILLINOIS CONTRACT NO. 99297			



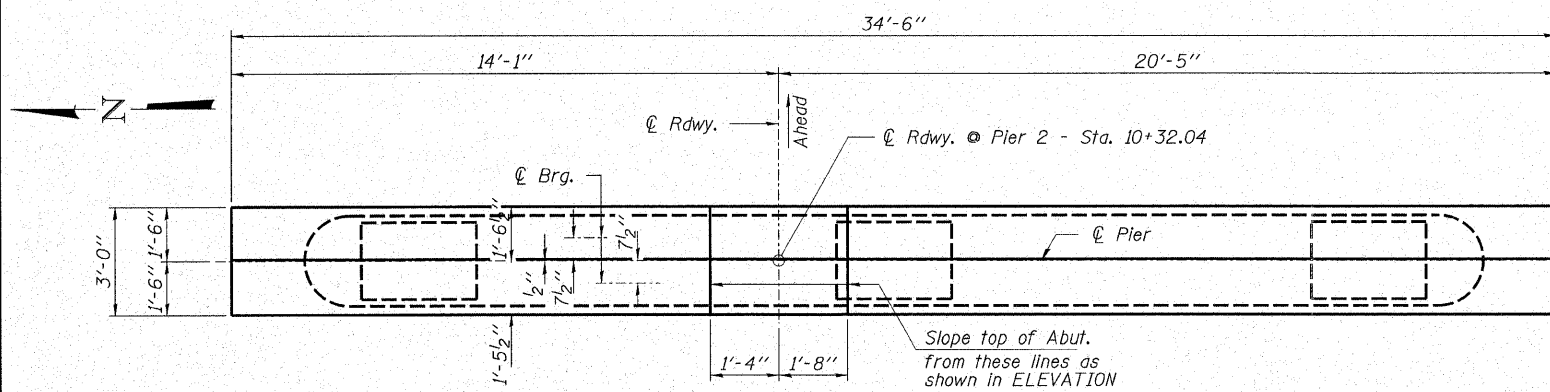
Notes:
Space reinforcement in cap to miss dowel rods.
All edges shall have standard 3/4" chamfer except as noted.

BILL OF MATERIAL - PIER 1

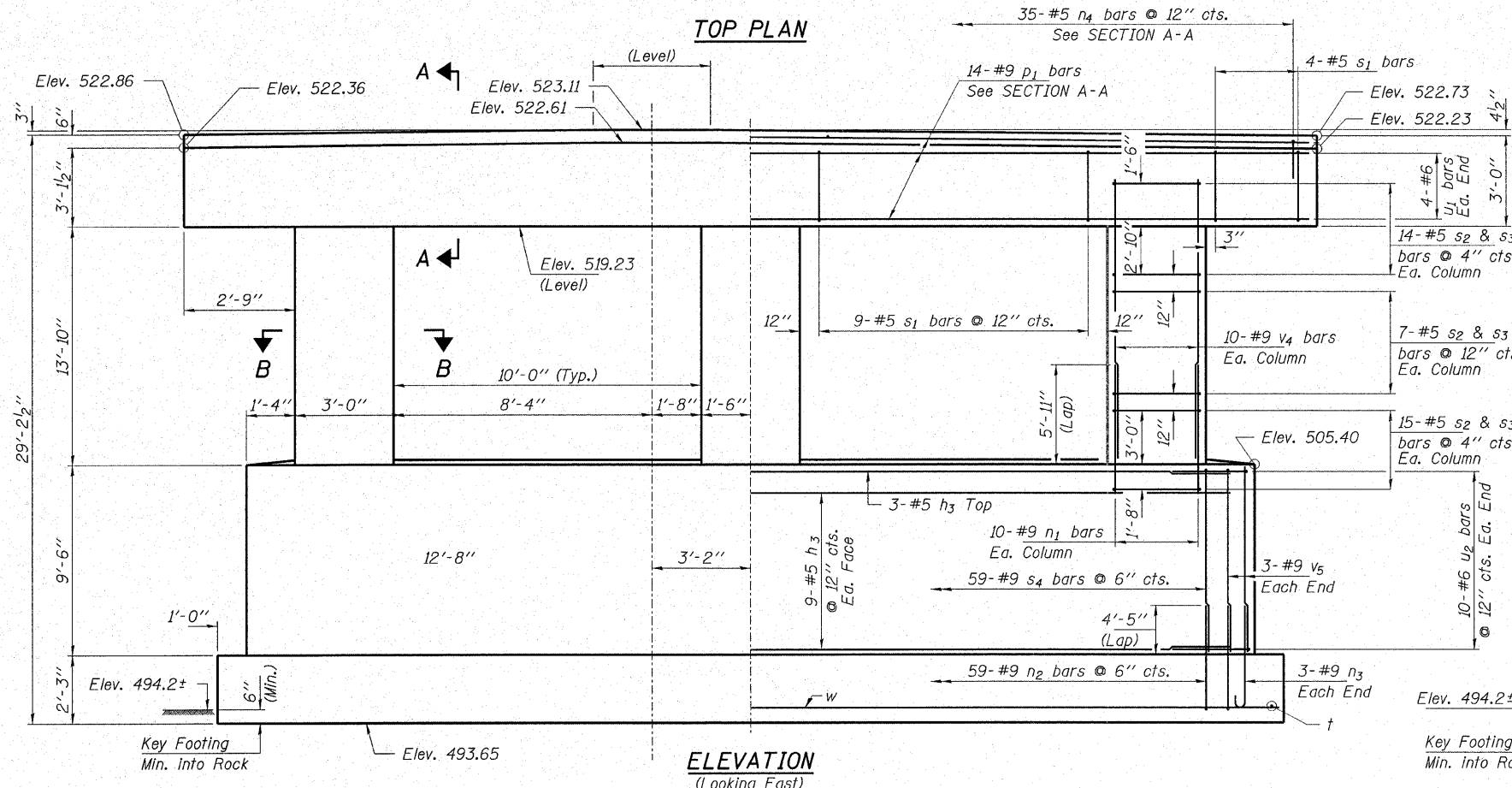
BAR NO.	SIZE	LENGTH	SHAPE
h3	#5	29'-0"	—
n1	#9	7'-8"	—
n2	#9	15'-2"	U
n3	#9	7'-8"	J
n4	#5	4'-5"	U
p1	#9	34'-2"	—
s1	#5	11'-7"	□
s2	#5	8'-11"	□
s3	#5	2'-8"	□
s4	#9	21'-0"	U
t	#9	8'-8"	—
u1	#6	12'-7"	U
u2	#6	13'-8"	U
v4	#9	15'-4"	—
v5	#9	9'-4"	—
w	#5	33'-4"	—
Concrete Structures	Cu. Yd.	75.5	
Reinforcement Bars	Pound	18,720	
Rock Excavation	Cu. Yd.	7.5	
Structure Excavation	Cu. Yd.	60	

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LAND SURVEYORS
3085 STEVENSON DRIVE, SUITE 201
SPRINGFIELD, ILLINOIS 62703
(217) 546-3400
ELGIN • SPRINGFIELD
PROJECT NUMBER: 12-49-0005-1 DATE: 03/21/07
DESIGNED: R.J.P. CHECKED: S.W.M. DRAWN: D.B.

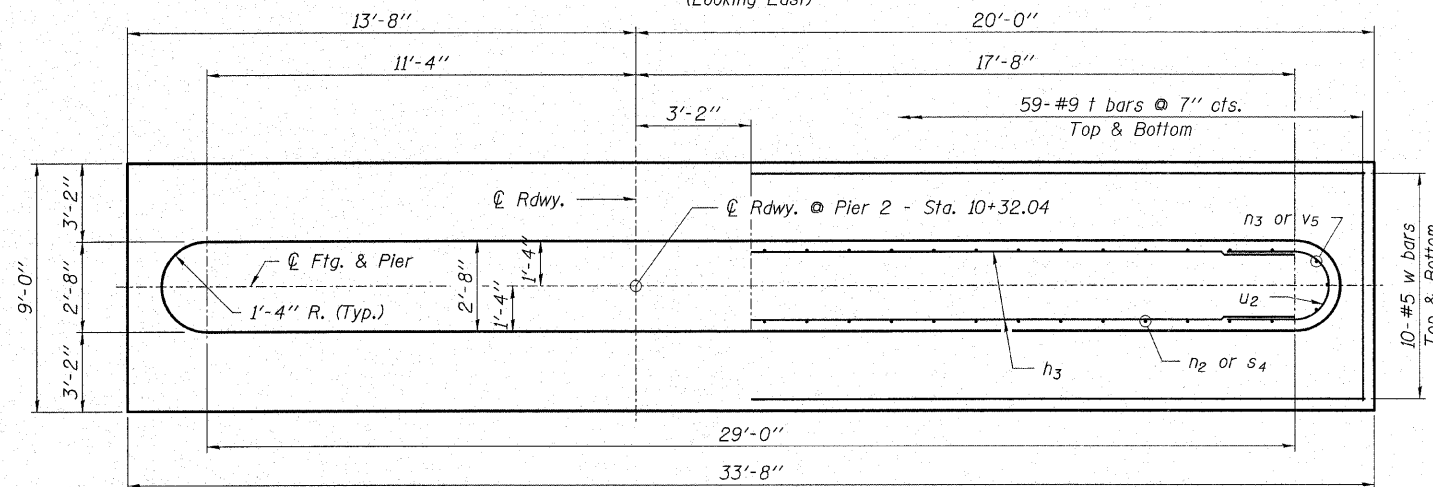
PIER 1
SECTIONS 05-00186-00-BR / 06-00001-00-BR
VILLAGE OF BLUFORD
JEFFERSON COUNTY
STRUCTURE NO. 041-9931 / STATION 10+00



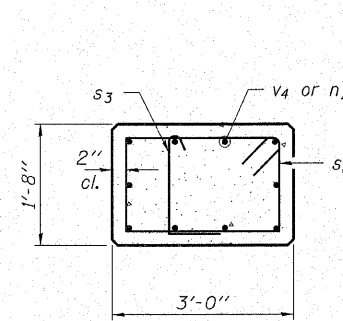
TOP PLAN



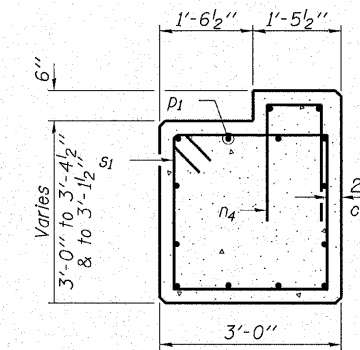
ELEVATION
(Looking East)



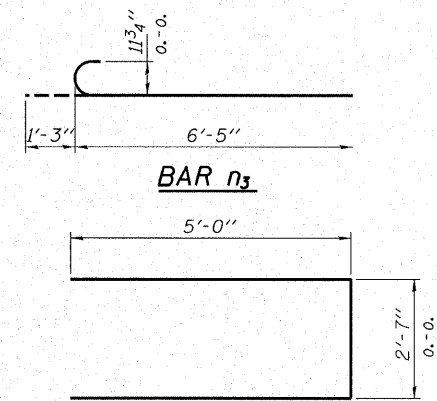
FOOTING PLAN



SECTION B-B

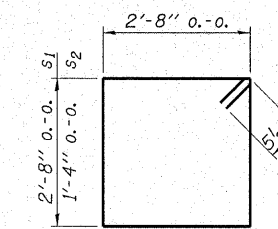


SECTION A-A

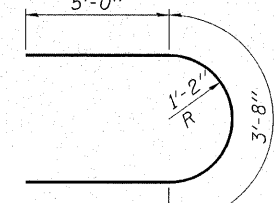


BAR n3

BAR u1



BAR s1 & s2



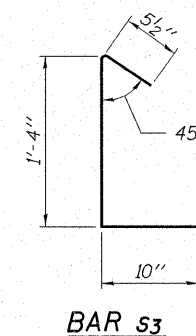
BAR u2

Notes:
Space reinforcement in cap to miss dowel rods.
All edges shall have standard 3/4" chamfer except as noted.

BILL OF MATERIAL - PIER 2

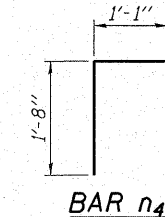
BAR NO.	SIZE	LENGTH	SHAPE
h3	#5	29'-0"	—
n1	#9	7'-8"	—
n2	#9	15'-2"	U
n3	#9	7'-8"	J
n4	#5	4'-5"	U
p1	#9	34'-2"	—
s1	#5	11'-7"	U
s2	#5	8'-11"	U
s3	#5	2'-8"	U
s4	#9	21'-0"	U
t	#9	8'-8"	—
u1	#6	12'-7"	U
u2	#6	13'-8"	U
v4	#9	15'-4"	—
v5	#9	9'-4"	—
w	#5	33'-4"	—
Concrete Structures			Cu. Yd. 75.5
Reinforcement Bars			Pound 18,720
Rock Excavation			Cu. Yd. 7.5
Structure Excavation			Cu. Yd. 60

MIN. BAR LAP
#9 = 4'-5"

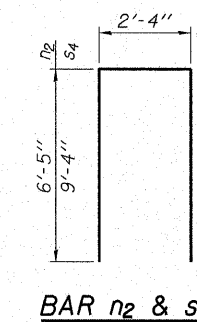


BAR s3

END VIEW
q_{max} = 5.1 k.s.f.



BAR n4



BAR n2 & s4

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LAND SURVEYORS
3085 STEVENSON DRIVE, SUITE 201
SPRINGFIELD, ILLINOIS 62703
(217) 546-3400

ELGIN • SPRINGFIELD

PROJECT NUMBER: 12-49-0005-1 DATE: 03/21/07
DESIGNED: R.J.P. CHECKED: S.W.M. DRAWN: D.B.

PIER 2
SECTIONS 05-00186-00-BR / 06-00001-00-BR
VILLAGE OF BLUFORD
JEFFERSON COUNTY
STRUCTURE NO. 041-9931 / STATION 10+00



Illinois Department of Transportation
Division of Highways
Ill. Dept. of Trans. 57

SOIL BORING LOG

Page 1 of 2

Date 5/27/05

ROUTE Short Road DESCRIPTION Short Road over CN/IC Railroad LOGGED BY E. Sandshafer

SECTION 05-00186-00-BR LOCATION SE 1/4, SEC. 23, TWP. 2 S. RNG. 4 E. 3 PM

COUNTY Jefferson DRILLING METHOD Hollow stem auger & split spoon HAMMER TYPE Auto 140#

STRUCT. NO. 041-9926
Station _____

BORING NO. 1 (W Abut)
Station 16' W of exist W Abut
Offset 5.00' N of centerline
Ground Surface Elev. 194.80 ft

DEPTH (ft)	DESCRIPTION	WATER	TEMPERATURE	REMARKS
0.0	1" oil & chip surface over estimated soil cement base w/ gravel.			
0.1	Brown, CLAY.			
0.5	Stiff, damp, gray, CLAY w/ silt.			
1.2				
1.5				
1.6	Red mottled gray, w/ some sand, sample broken.			
1.8				
2.2	Soft to medium, damp, brown, SILTY LOAM.			
2.5				
2.7				
3.0	Stiff, damp, brown mottled red, CLAY w/ silt.			
3.7				
3.9				
4.2	Stiff, damp, gray marbled red, SILTY CLAY.			
4.6				
5.0				
5.7	Stiff, damp, gray marbled red, CLAY w/ black specks and sandstone fragment.			
6.4				
6.5				
6.8				
7.0				

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)
RRS, from 187 (Rev. 8-98)



Illinois Department of Transportation
Division of Highways
Ill. Dept. of Trans. 57

ROCK CORE LOG

Page 2 of 2

Date 5/27/05

ROUTE Short Road DESCRIPTION Short Road over CN/IC Railroad LOGGED BY E. Sandshafer

SECTION 05-00186-00-BR LOCATION SE 1/4, SEC. 23, TWP. 2 S. RNG. 4 E. 3 PM

COUNTY Jefferson CORING METHOD Rotary, surf set diamond bit

STRUCT. NO. 041-9926
Station _____

BORING NO. 1 (W Abut)
Station 16' W of exist W Abut
Offset 5.00' N of centerline
Ground Surface Elev. 194.80 ft

DEPTH (ft)	DESCRIPTION	RECORDED	REMARKS
0.0	Brown, slightly weathered, SANDY CLAY SHALE.	67	501-3 174.10
100		88	0.7
184.10	Brown and gray, moderately weathered, SANDY CLAY SHALE.	100	84 0.7
189.10	Extent of exploration.		

Color pictures of the cores _____
Cores will be stored for examination until _____
The "Strength" column represents the uniaxial compressive strength of the core sample (ASTM D-2938)
BBS, Form 188 (Rev. 8-98)



Illinois Department of Transportation
Division of Highways
Ill. Dept. of Trans. 57

SOIL BORING LOG

Page 1 of 1

Date 6/9/05

ROUTE Short Road DESCRIPTION Short Road over CN/IC Railroad LOGGED BY E. Sandshafer

SECTION 05-00186-00-BR LOCATION SE 1/4, SEC. 23, TWP. 2 S. RNG. 4 E. 3 PM

COUNTY Jefferson DRILLING METHOD Hollow stem auger & split spoon HAMMER TYPE Auto 140#

STRUCT. NO. 041-9926
Station _____

BORING NO. 2 (E Abut)
Station 16' E of exist E Abut
Offset 4.00' S of centerline
Ground Surface Elev. 194.80 ft

DEPTH (ft)	DESCRIPTION	WATER	TEMPERATURE	REMARKS
0.0	1" oil & chip surface over estimated soil cement base w/ gravel.			
0.1	Gray, SILTY LOAM.			
0.5	Stiff, damp, red mottled gray, CLAY.			
1.7				
1.8	Medium, damp, red w/ gray veining, CLAY.			
2.2				
2.5				
2.7	Very stiff, very moist, red mottled gray, SANDY CLAY TILL.			
3.0				
3.3				
3.6	Medium, damp, red mottled gray, SILTY CLAY.			
3.8				
4.0				
4.3	Very dense, moist, gray to red, SANDY CLAY SHALE.			
4.9				
5.0	Medium to stiff, damp, gray mottled red, CLAY w/ silt.			
5.2				
5.3	Extent of exploration.			
5.4				
5.5				
5.6				
5.7	Stiff, damp, gray/black/red, CLAY TILL.			
5.8				
5.9				
6.0				

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)
BBS, from 187 (Rev. 8-98)

BORING 1

BORING 2

<p>HAMPTON, LENZINI & RENWICK, INC. CIVIL & STRUCTURAL ENGINEERS LAND SURVEYORS</p> <p>HLR</p> <p>ELGIN • SPRINGFIELD</p> <p>PROJECT NUMBER: 12-49-0005-1 DATE: 03/21/07 DESIGNED: R.J.P. CHECKED: S.W.M. DRAWN: D.B.</p>	<p>BORINGS</p> <p>SECTIONS 05-00186-00-BR / 06-00001-00-BR</p> <p>VILLAGE OF BLUFORD</p> <p>JEFFERSON COUNTY</p> <p>STRUCTURE NO. 041-9931 / STATION 10+00</p>
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