

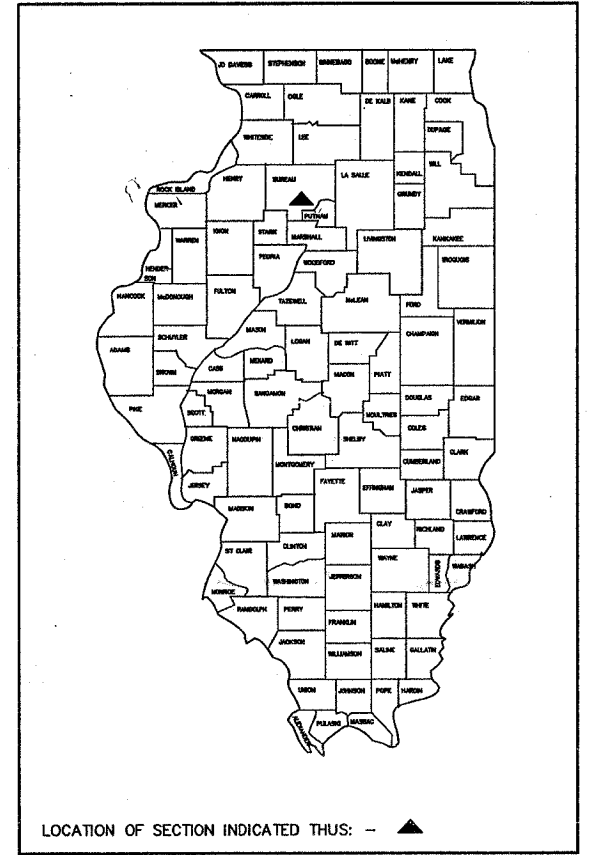
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
MS 1090	*	BUREAU COUNTY	27	1
* SECTION 01-00008-00-BR		ILLINOIS	FED. AID PROJECT	

85381

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS**

**PROPOSED
HIGHWAY PLANS**

**MS 1090
SECTION 01-00008-00-BR
PROJECT NO. BR-OS-011 (65)
BUREAU COUNTY
BRIDGE REPLACEMENT AT HIGH STREET OVER
BURLINGTON NORTHERN SANTA FE RAILWAY
JOB NO. C-92-082-04
STRUCTURE NO. 006-6600
CONTRACT NO. 85381**

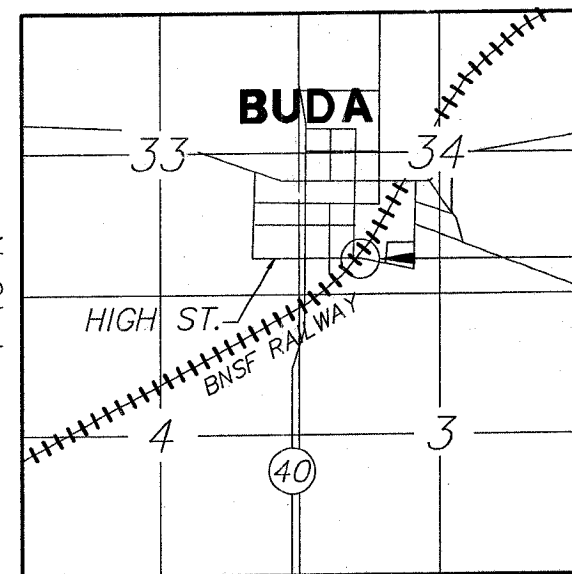


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HIGHWAY STANDARDS

- 000001-04 STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS
- 001001 AREAS OF REINFORCEMENT REBARS
- 001006 DECIMAL OF AN INCH AND OF A FOOT
- 280001-02 TEMPORARY EROSION CONTROL SYSTEMS
- 424001-04 CURB RAMPS FOR SIDEWALKS
- 515001-02 NAME PLATE FOR BRIDGES
- 542401 METAL END SECTION FOR PIPE CULVERTS
- 606001-02 CONCRETE CURB TYPE B AND COMBINATION CONCRETE CURB AND GUTTER
- 630001-06 STEEL PLATE BEAM GUARDRAIL
- 630201-03 PCC/BITUMINOUS STABILIZATION AT STEEL PLATE BEAM GUARDRAIL
- 630301-03 SHOULDER WIDENING FOR TYPE 1 (SPECIAL) GUARDRAIL TERMINALS
- 631011-02 TRAFFIC BARRIER TERMINAL TYPE 2
- 631031-05 TRAFFIC BARRIER TERMINAL, TYPE 6
- 631032-02 TRAFFIC BARRIER TERMINAL, TYPE 6A
- 635006-02 REFLECTOR AND TERMINAL MARKER PLACEMENT
- 635011-01 REFLECTOR MARKER AND MOUNTING DETAILS
- 702001-06 TRAFFIC CONTROL DEVICES
- 780001-01 TYPICAL PAVEMENT MARKINGS
- B.L.R. 21-6 TYPICAL APPLICATION OF TRAFFIC CONTROL DEVICES FOR CONSTRUCTION ON RURAL LOCAL HIGHWAYS

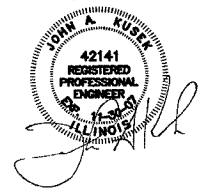


R 7 E OF THE 4TH P.M.

LOCATION MAP

GROSS LENGTH OF PROJECT = 872 FEET = 0.165 MI.
NET LENGTH OF PROJECT = 872 FEET = 0.165 MI.

THE PROPOSED BRIDGE WILL CONSIST OF A 36 FOOT WIDE THREE SPAN PRECAST CONCRETE DECK BEAM BRIDGE. THE PROPOSED STRUCTURE NUMBER IS 006-6600. THE STRUCTURE LOCATION IS STA. 5+36.11.



LOCAL ROAD
ADT: 450 (2026): 3% TRUCKS
30 MPH DESIGN SPEED

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

BUREAU COUNTY SECTION 01-00008-00-BR

APPROVED Feb 7 20 06
Paul Van Dusen
LOCAL AGENCY OFFICIAL

PASSED February 23 20 06
John T. Johnson
DISTRICT ENGINEER OF LOCAL ROADS & STREETS

APPROVED FOR BIDDING February 23 20 06
George A. Mowbray
DISTRICT ENGINEER

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

**McCLURE
ENGINEERING
ASSOCIATES, INC.**
1138 Columbus Drive Ottawa, Illinois 61350
(815) 433-2080 FAX (815) 433-5930
DESIGN FIRM LICENSE: ILLINOIS #184-000816
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ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
MS 1090	*	BUREAU COUNTY	27	2
* SECTION 01-00008-00-BR		ILLINOIS	FED. AID PROJECT	

GENERAL NOTES

1. THE THICKNESS OF BITUMINOUS MIXTURES SHOWN ON THE PLANS IS THE NORMAL THICKNESS. DEVIATIONS FROM THE NORMAL THICKNESS WILL BE PERMITTED WHEN SUCH DEVIATIONS OCCUR DUE TO IRREGULARITIES IN THE EXISTING SURFACE OR BASE ON WHICH THE BITUMINOUS MIXTURE IS PLACED.
2. NO BITUMINOUS LIFT SHALL EXCEED 1½".
3. THE BITUMINOUS SURFACE OF ALL MAILBOX TURNOUTS, PRIVATE ENTRANCES, COMMERCIAL ENTRANCES, AND SIDE ROADS SHALL BE MADE NEATLY, IN A WORKMANLIKE MANNER, AND SHALL ACCURATELY CONFORM TO THE SHAPES AND DIMENSIONS SHOWN ON THE PLAN DETAILS. IF REQUIRED BY THE ENGINEER, THE CONTRACTOR SHALL BE REQUIRED TO SAW CUT THE BITUMINOUS SURFACE TO CONFORM TO THE SHAPES AND DIMENSIONS SHOWN ON THE PLAN DETAILS. THIS WORK SHALL BE INCLUDED IN THE COST OF THE BITUMINOUS SURFACE.
4. EXCEPT AS NOTED ON THE PLANS, PAVEMENT GRADES SHOWN ARE AT THE TOP OF PAVEMENT SURFACES.
5. AGGREGATE (PRIME COAT): FA 20 MAY BE USED IN ADDITION TO THE GRADATIONS LISTED IN THE 3RD PARAGRAPH OF ARTICLE 1003.03(c) OF THE STANDARD SPECIFICATIONS.
6. THE ENGINEER WILL BE THE SOLE JUDGE CONCERNING CURING TIME FOR THE VARIOUS BITUMINOUS LIFTS.
7. FOR STABILIZATION, ALL TYPE III BARRICADES SHALL REQUIRE A MINIMUM OF FOUR SAND BAGS PER BARRICADE.
8. WHERE SECTION OR SUBSECTION MONUMENTS ARE ENCOUNTERED, THE ENGINEER SHALL BE NOTIFIED BEFORE SUCH MONUMENTS ARE REMOVED. THE CONTRACTOR SHALL PROTECT OR PERSONALLY PRESERVE ALL MONUMENTS UNTIL AN AUTHORIZED SURVEYOR OR AGENT HAS WITNESSED OR OTHERWISE REFERENCED THEIR LOCATION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR HAVING AN AUTHORIZED SURVEYOR RE-ESTABLISH ANY SECTION OR SUBSECTION MONUMENTS DESTROYED BY HIS OPERATIONS.
9. SEEDING SHALL NOT BE PERMITTED AT ANY TIME WHEN THE GROUND IS FROZEN, WET, OR IN AN UNTILLABLE CONDITION. LOCATIONS TO BE SEEDED WILL BE DETERMINED BY THE ENGINEER.
10. ONLY THOSE TREES DESIGNATED BY THE ENGINEER OR LISTED IN THE TREE REMOVAL SCHEDULE SHALL BE REMOVED. THE CONTRACTOR SHALL PROTECT ALL REMAINING TREES FROM DAMAGE DUE TO HIS OPERATIONS.
11. THE FINISHED EARTHWORK SHALL HAVE A VEGETATION SUSTAINING SOIL COVERING THE TOP FOUR INCHES IN AREAS TO BE SEEDED OR SODDED. THE VEGETATION SUSTAINING SOIL REQUIRED WILL NOT BE PAID FOR SEPARATELY BUT SHALL BE INCLUDED IN THE COST OF FURNISHED EXCAVATION.
12. ABANDONED UNDERGROUND UTILITIES THAT CONFLICT WITH CONSTRUCTION SHALL BE DISPOSED OF OUTSIDE THE LIMITS OF THE RIGHT-OF-WAY ACCORDING TO ARTICLE 202.03 OF THE STANDARD SPECIFICATIONS AND AS DIRECTED BY THE ENGINEER. THIS WORK SHALL NOT BE PAID FOR SEPARATELY BUT SHALL BE INCLUDED IN THE COST OF FURNISHED EXCAVATION.
13. ANY REFERENCE TO A STANDARD IN THESE PLANS SHALL BE INTERPRETED TO MEAN THE EDITION AS INDICATED BY THE SUBNUMBER LISTED ON THE INDEX OF SHEETS OR THE COPY OF THE STANDARD INCLUDED IN THESE PLANS.
14. BEFORE ORDERING STORM SEWERS, CATCH BASINS, PIPE CULVERTS, PIPE DRAINS AND MANHOLES, THE CONTRACTOR SHALL CONTACT THE ENGINEER AS TO THE EXACT LENGTH AND QUANTITY REQUIRED.
15. THE LOCATIONS OF EXISTING WATERMANS, GAS MAINS, SEWERS, ELECTRIC POWER LINES, TELEPHONE LINES AND OTHER UTILITIES AS SHOWN ON THE PLANS ARE BASED ON THE BEST INFORMATION AVAILABLE, BUT THEY ARE NOT GUARANTEED. ALL UTILITY LOCATIONS SHOWN ARE SUPPLIED BY THE UTILITY COMPANIES. IT IS THE CONTRACTOR'S RESPONSIBILITY TO ASCERTAIN THEIR EXACT LOCATION FROM THE UTILITY COMPANIES AND BY FIELD INSPECTION.
16. ENGLISH UNITS OF MEASUREMENT SHALL GOVERN OVER AND SUPERSEDE ANY METRIC UNITS SHOWN IN THIS CONTRACT. WHERE INCLUDED, METRIC UNITS ARE FOR INFORMATION ONLY.
17. THE REMOVAL OF GUARDRAIL TERMINAL SECTIONS SHALL BE INCLUDED IN THE UNIT PRICE PER FOOT FOR GUARDRAIL REMOVAL.
18. RETAINING WALL SHALL BE MODULAR BLOCK RETAINING WALL AND SHALL BE DESIGNED BY THE MANUFACTURER. DESIGN SUBMITTALS SHALL BE FURNISHED TO THE ENGINEER FOR REVIEW.

19. THE FOLLOWING RATES OF APPLICATION HAVE BEEN USED IN CALCULATING PLAN QUANTITIES:

GRANULAR MATERIALS	2.05	TONS / CU YD
BITUMINOUS MAT PRIME COAT	0.30	GAL / SQ YD
AGGREGATE PRIME COAT	0.002	TONS / SQ YD
BITUMINOUS CONCRETE	112	LBS / SQ YD / IN
SHORT TERM PAVEMENT MARKING	10	FT /100 FT OF APPLICATION
MIX. FOR CRACKS, JOINTS & FLANGEWAYS	0.0003	TONS / SQ YD
LEVEL BINDER (HAND METHOD)	0.0005	TONS / SQ YD
SUPPLEMENTAL WATERING	3	GAL / SQ YD / APPLICATION
TEMPORARY DITCH CHECKS	9 5	BALES OR TONS AGGREGATE

20. MEMBERS OF J.U.L.I.E. KNOWN TO BE WITHIN THE LIMITS OF THE IMPROVEMENT ARE:
(J.U.L.I.E. 1-800-892-0123)

VILLAGE OF BUDA
AMEREN IP
VERIZON NORTH, INC.
MEDIACOM

21. NON-MEMBERS OF J.U.L.I.E. KNOWN TO BE WITHIN THE LIMITS OF THE IMPROVEMENT ARE:

NONE KNOWN

COMMITMENTS

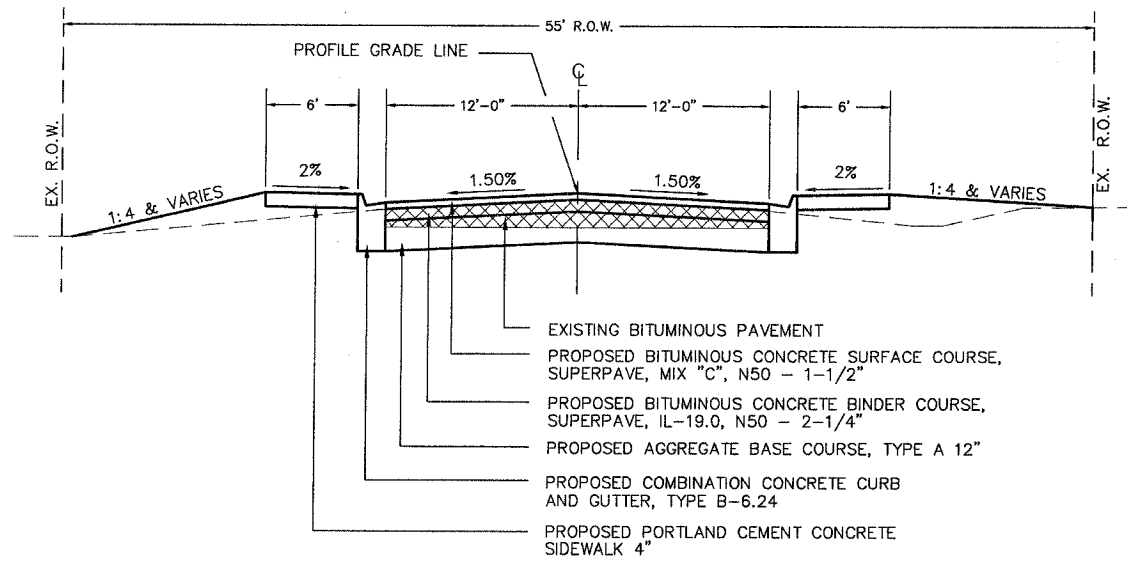
THERE HAVE BEEN NO COMMITMENTS ADOPTED FOR THIS PROJECT.

REVISIONS	
NAME	DATE

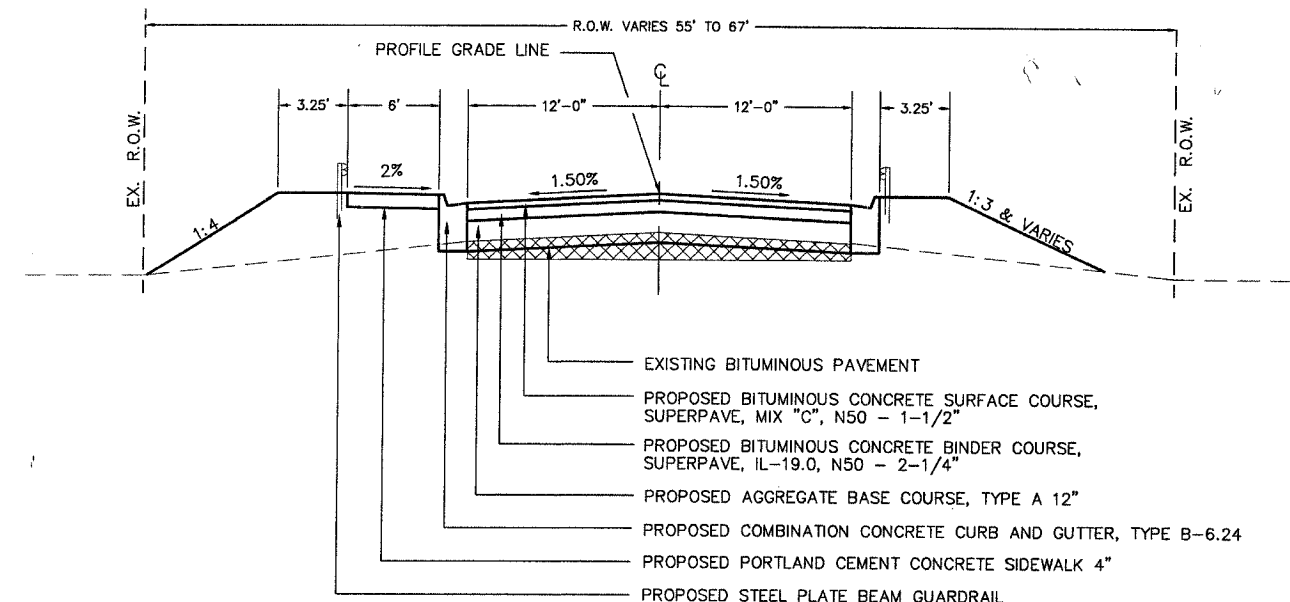
GENERAL NOTES & COMMITMENTS

SCALE: NONE DRAWN BY: SMI
DATE: JANUARY 6, 2006 CHECKED BY: JAK/SAS
FILE: M:\DRWGS\BUDA\HIGH ST. BRIDGE\GENERAL NOTES.DWG

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
MS 1090	*	BUREAU COUNTY	27	3
* SECTION 01-00008-00-BR		ILLINOIS	FED. AID PROJECT	



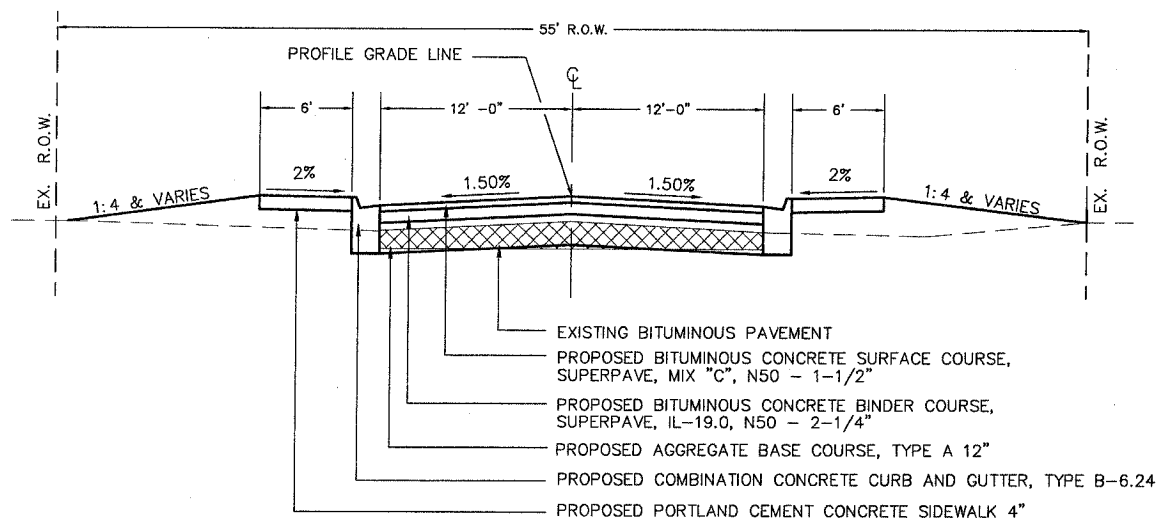
PROPOSED TYPICAL ROADWAY SECTION
STA. 1+16.36 TO STA. 2+77.81



NOTE: PROPOSED MODULAR BLOCK RETAINING WALL STA 4+00.00 TO 4+25.00 23.50' LT
(SEE CROSS SECTIONS AND PLAN AND PROFILES)

PROPOSED TYPICAL ROADWAY SECTION
STA. 3+81.00 TO STA. 4+49.06

BRIDGE OMISSION STA. 4+49.06 TO 6+21.65



NOTE: PROPOSED SIDEWALK RT ENDS STA 3+27.62

PROPOSED TYPICAL ROADWAY SECTION
STA. 2+77.81 TO STA. 3+81.00

FLEXIBLE PAVEMENT DESIGN

CLASS IV (ADT > 400)
DESIGN PERIOD = 20 YEARS
TRAFFIC FACTOR = 0.077
I.B.R. = 3.0
STRUCTURAL NUMBER (REQUIRED) = 2.80 (USING FIGURE 54-5M)
STRUCTURAL NUMBER (TYPICAL) = 3.06 (USING EQUATION 54-5N)

MIXTURE USES:	SUPERPAVE SURFACE	SUPERPAVE SURFACE
PG:	PG 58-22	PG 58-22
RAP% (MAX)	15	25
DESIGN AIR VOIDS	3 @ N50	4.2 @ N50
MIXTURE COMPOSITION (GRADIATION MIXTURE)	IL 9.5 OR 12.5	IL 19.0
FRICTION AGGREGATE	C	N/A

REVISIONS	
NAME	DATE
SMI	2/8/06

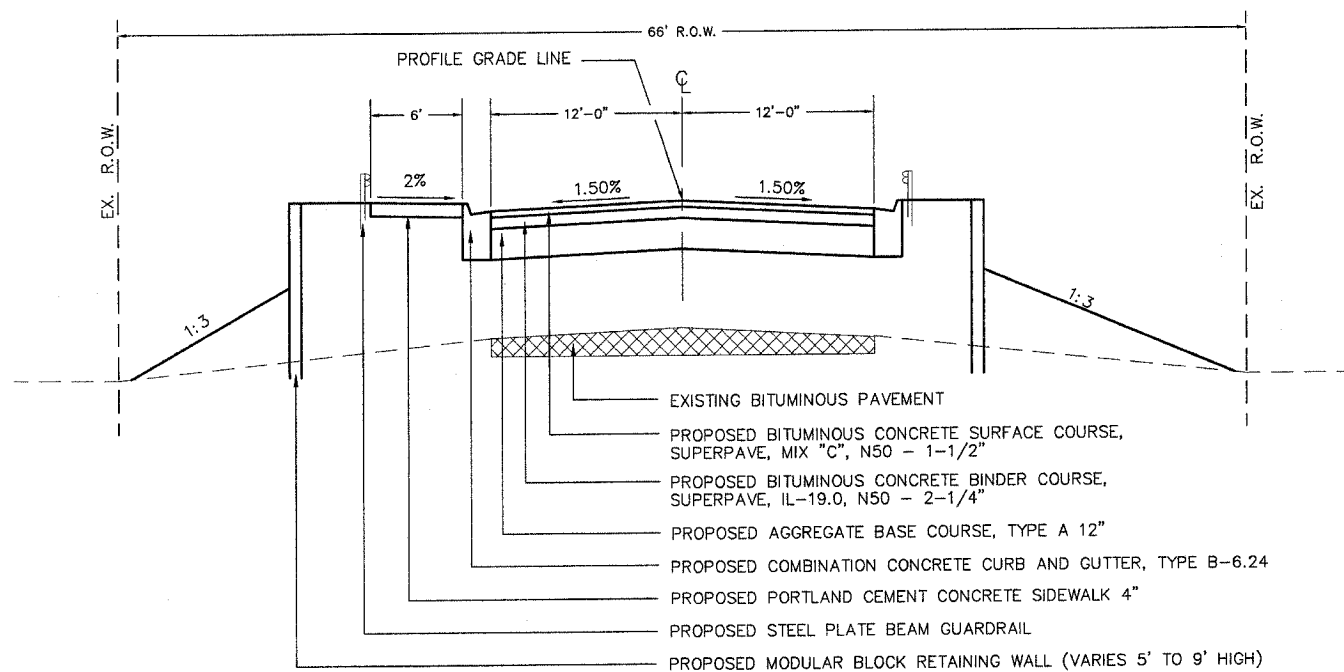
TYPICAL SECTIONS

SCALE: NONE DRAWN BY: SMI
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McCLURE ENGINEERING ASSOCIATES, INC.
1138 COLUMBUS STREET OTTAWA, ILLINOIS 61350
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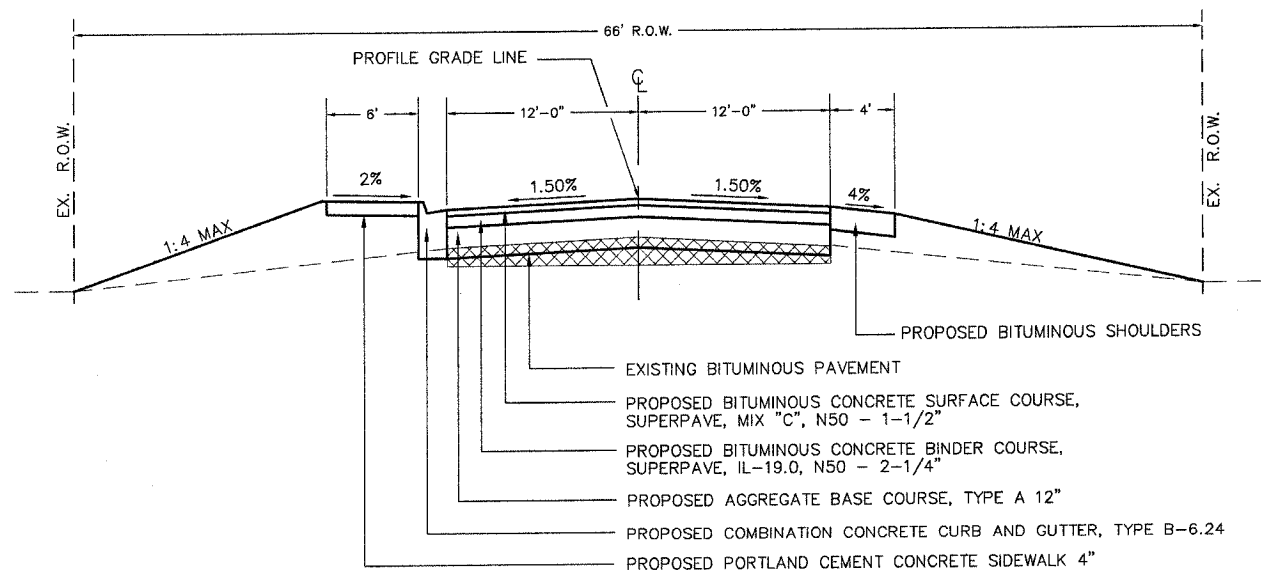
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
MS 1090	*	BUREAU COUNTY	27	4
* SECTION 01-0008-00-BR ILLINOIS FED. AID PROJECT				

Contract 85381



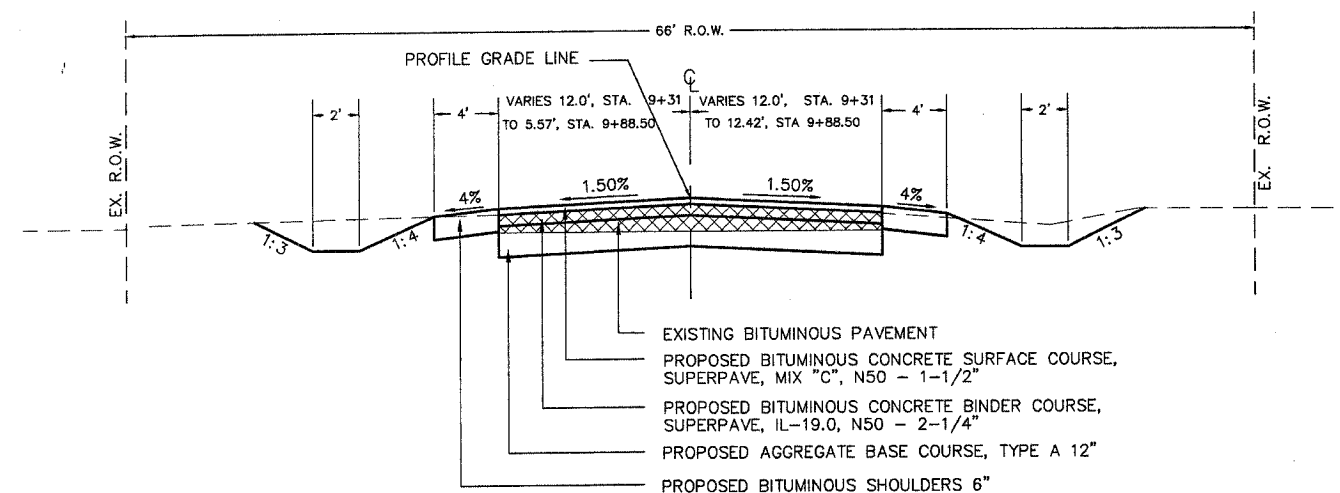
- NOTE: 1. PROPOSED RETAINING WALL LT ENDS STA 7+25.00
 2. PROPOSED RETAINING WALL RT ENDS STA 7+50.00
 (SEE CROSS SECTIONS AND PLAN AND PROFILES)

PROPOSED TYPICAL ROADWAY SECTION
 STA. 6+21.65 TO STA. 8+39.26



- NOTE: 1. PROPOSED SIDEWALK LT ENDS 8+82.53
 2. PROPOSED DITCH LT & RT BEGINS STA. 8+50

PROPOSED TYPICAL ROADWAY SECTION
 STA. 8+39.26 TO STA. 9+20.06



- NOTE: 1. PROPOSED CURB & GUTTER LT ENDS 9+54.89

PROPOSED TYPICAL ROADWAY SECTION
 STA. 9+20.06 TO STA. 9+88.50

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REVISIONS	
NAME	DATE
SMI	2/8/06
DAC	3/8/06

TYPICAL SECTIONS

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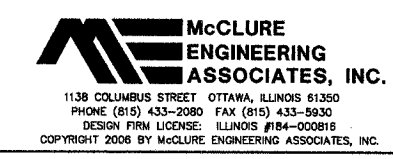
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
MS 1090	*	BUREAU COUNTY	27	5
* SECTION 01-0008-00-BR		ILLINOIS	FED. AID PROJECT	

Contract 85381

SUMMARY OF QUANTITIES				
CODE NO.	ITEM	CONSTRUCTION TYPE CODE:		Y080
		UNIT	TOTAL QUANTITY	
20100210	TREE REMOVAL (OVER 15 UNITS DIAMETER)	UNIT	30	30
20100500	TREE REMOVAL, ACRES	ACRE	0.17	0.17
20400800	FURNISHED EXCAVATION	CU YD	9,407	9,407
20800150	TRENCH BACKFILL	CU YD	35	35
25000300	SEEDING, CLASS 3	ACRE	1.16	1.16
25000400	NITROGEN FERTILIZER NUTRIENT	POUND	104.4	104.4
25000500	PHOSPHOROUS FERTILIZER NUTRIENT	POUND	104.4	104.4
25000600	POTASSIUM FERTILIZER NUTRIENT	POUND	104.4	104.4
25100115	MULCH METHOD 2	ACRE	1.16	1.16
25100630	EROSION CONTROL BLANKET	SQ YD	1,845	1,845
28000250	TEMPORARY EROSION CONTROL SEEDING	POUND	116	116
28000300	TEMPORARY DITCH CHECKS	EACH	6	6
28000400	PERIMETER EROSION BARRIER	FOOT	2,462	2,462
28100101	STONE RIPRAP CLASS A1	SQ YD	134	134
28200200	FILTER FABRIC	SQ YD	134	134
35101100	AGGREGATE BASE COURSE, TYPE A 12"	SQ YD	2,193	2,193
35800100	PREPARATION OF BASE	SY YD	2,173	2,173
40200800	AGGREGATE SURFACE COURSE, TYPE B	TON	254	254
40600100	BITUMINOUS MATERIALS (PRIME COAT)	GALLON	658	658
40600300	AGGREGATE (PRIME COAT)	TON	4.39	4.39
42001300	PROTECTIVE COAT	SQ YD	1,022	1,022
42300200	PORTLAND CEMENT CONCRETE DRIVEWAY PAVEMENT, 6 INCH	SQ YD	172	172
42400100	PORTLAND CEMENT CONCRETE SIDEWALK 4 INCH	SQ FT	4,538	4,538
42400800	DETECTABLE WARNINGS	SQ FT	34	34
44000600	SIDEWALK REMOVAL	SQ FT	1,572	1,572
48200400	BITUMINOUS SHOULDERS 6"	SQ YD	73	73
50100100	REMOVAL OF EXISTING STRUCTURES	EACH	1	1
50105200	REMOVE EXISTING CULVERTS	EACH	3	3
50200100	STRUCTURE EXCAVATION	CU YD	96.9	96.9
50300225	CONCRETE STRUCTURES	CU YD	278.2	278.2
50300300	PROTECTIVE COAT	SQ YD	210.2	210.2
50400605	PRECAST PRESTRESSED CONCRETE DECK BEAMS (33" DEPTH)	SQ FT	6,100	6,100
50800205	REINFORCEMENT BARS (EPOXY COATED)	POUND	22,759	22,759
50900305	STEEL RAILING, TYPE T-1	FOOT	173	173
50900805	PEDESTRIAN RAILING	FOOT	172	172
51100100	SLOPE WALL 4"	SQ YD	54	54
51100500	BITUMINOUS COATED AGGREGATE SLOPEWALL 6"	SQ YD	516	516
51201600	FURNISHING STEEL PILES HP12X53	FOOT	868	868

SUMMARY OF QUANTITIES				
CODE NO.	ITEM	CONSTRUCTION TYPE CODE:		Y080
		UNIT	TOTAL QUANTITY	
51201800	FURNISHING STEEL PILES HP14X73	FOOT	1,458	1,458
51202700	DRIVING STEEL PILES	FOOT	1,912	1,912
51203600	TEST PILE STEEL HP12X53	EACH	2	2
51203800	TEST PILE STEEL HP14X73	EACH	2	2
51204315	CONCRETE ENCASMENT	CU YD	4.9	4.9
51500100	NAME PLATES	EACH	1	1
54200220	PIPE CULVERTS, CLASS D, TYPE 1, 15"	FOOT	65	65
54201060	PIPE CULVERTS, CLASS D, TYPE 2, 15"	FOOT	46	46
54213450	END SECTION, 15"	EACH	4	4
54213663	PRECAST REINFORCED CONCRETE FLARED END SECTIONS 18"	EACH	1	1
550A0070	STORM SEWERS, CLASS A, TYPE 1, 15"	FOOT	25	25
550A0090	STORM SEWERS, CLASS A, TYPE 1, 18"	FOOT	81	81
58100200	WATERPROOFING MEMBRANE SYSTEM	SQ YD	585.9	585.9
60242400	INLET SPECIAL	EACH	2	2
60255500	MANHOLES TO BE ADJUSTED	EACH	1	1
60605000	COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6-24	FOOT	1,261	1,261
* 63000000	STEEL PLATE BEAM GUARDRAIL, TYPE A	FOOT	200	200
* 63100045	TRAFFIC BARRIER TERMINAL, TYPE 2	EACH	1	1
* 63100085	TRAFFIC BARRIER TERMINAL, TYPE 6	EACH	2	2
* 63100087	TRAFFIC BARRIER TERMINAL, TYPE 6A	EACH	2	2
* 63100167	TRAFFIC BARRIER TERMINAL TYPE 1, SPECIAL (TANGENT)	EACH	1	1
X6310190	TRAFFIC BARRIER TERMINAL TYPE 1, SPECIAL (FLARED), MODIFIED	EACH	2	2
67100100	MOBILIZATION	L SUM	1	1
* 78001110	PAINT PAVEMENT MARKING - LINE 4"	FOOT	1,733	1,733
* 78200405	GUARDRAIL MARKERS	EACH	6	6
* 78201000	TERMINAL MARKER - DIRECT APPLIED	EACH	4	4
X4066414	BITUMINOUS CONCRETE SURFACE COURSE, SUPERPAVE, MIX "C", N50	TON	275	275
X4066614	BITUMINOUS CONCRETE BINDER COURSE, SUPERPAVE, IL-19.0, N50	TON	282	282
XX000613	MODULAR BLOCK RETAINING WALL	SQ FT	1,851	1,851
Z0048665	RAILROAD PROTECTIVE LIABILITY INSURANCE	L SUM	1	1
Δ 20076600	TRAINEES	HOURS	500	500
60603400	GUTTER OUTLET, SPECIAL	EACH	2	2

* SPECIALTY ITEMS
Δ 7030



REVISIONS	
NAME	DATE
SMI	2/8/08
DAC	3/8/08

SUMMARY OF QUANTITIES

SCALE: NONE DRAWN BY: SMI
DATE: JANUARY 6, 2006 CHECKED BY: JAK/SAS
FILE: M:\DRWING\BUDA\HIGH ST. BRIDGE\GENERAL NOTES.DWG

SCHEDULE OF QUANTITIES

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
MS 1090	*	BUREAU COUNTY	27	6
SECTION 01-00008-00-BR		ILLINOIS	FED. AID PROJECT	

Contract 85381

LOCATION	REMOVAL OF EXISTING STRUCTURES
	EACH
STA. 4+94, LT	1
TOTAL	1

LOCATION	FURNISHED EXCAVATION
	CU YD
STA. 1+16 TO STA. 9+88.50	9,407
TOTAL	9,407

NOTE: 25% COMPACTION FACTOR USED FOR FURNISHED EXCAVATION QUANTITY.

LOCATION	PORTLAND CEMENT CONCRETE SIDEWALK, 4"	DETECTABLE WARNINGS
	SQ FT	SQ FT
STA. 1+24 TO STA. 2+12, RT	481	
STA. 1+24 TO STA. 2+87, LT	1,010	
STA. 2+80, RT		10
STA. 2+87, LT		12
STA. 2+32 TO STA. 3+28, RT	574	
STA. 3+03, LT		12
STA. 3+03 TO STA. 4+66, LT	978	
STA. 6+34 TO STA. 8+83, LT	1,495	
TOTAL	4,538	34

LOCATION	REMOVE EXISTING CULVERTS
	EACH
STA. 2+21.7, RT	1
STA. 3+36.6, RT	1
STA. 3+49.0, LT & RT	1
TOTAL	3

LOCATION	MODULAR BLOCK RETAINING WALL
	SQ FT
STA. 4+00 TO STA. 4+25, 23.50' LT	47
STA. 6+31 TO STA. 7+25, 23.83' LT	690
STA. 6+10 TO STA. 7+50, 17.33' RT	1,114
TOTAL	1,851

LOCATION	SIDEWALK REMOVAL
	SQ FT
STA. 1+87.60, 24.9' RT TO STA. 3+79.97, 21.5' RT	642
STA. 6+75.80, 18.9' RT TO STA. 7+31.37, 23.4' RT	216
STA. 7+50.14, 24.1' RT TO STA. 9+21.57, 30.7' RT	714
TOTAL	1,572

LOCATION	TEMPORARY EROSION CONTROL SEEDING	MULCH METHOD 2	TEMPORARY DITCH CHECKS	PERIMETER EROSION BARRIER	STONE RIPRAP CLASS A1	FILTER FABRIC FOR USE WITH RIPRAP
	ACRE	ACRE	EACH	FOOT	SQ YD	SQ YD
STA. 1+16 TO STA. 9+88.50 LT	49	0.49				
STA. 1+16 TO STA. 9+88.50 RT	67	0.67				
STA. 1+30 TO STA. 5+15 RT				465		
STA. 1+30 TO STA. 5+15 LT				725		
STA. 4+03 TO STA. 4+23, RT					22	22
STA. 5+57 TO STA. 10+05 LT				502		
STA. 5+57 TO STA. 10+05 RT				770		
STA. 8+10, 23' RT			1			
STA. 8+50, 31' LT			1			
STA. 8+75, 23' RT			1			
STA. 8+96 TO STA. 9+97, LT					112	112
STA. 9+20, 25' LT			1			
STA. 9+80, 25' LT			1			
STA. 9+80, 23' RT			1			
TOTAL	116	1.16	6	2,462	134	134

LOCATION	SEEDING CLASS 3	NITROGEN FERTILIZER NUTRIENT	PHOSPHOROUS FERTILIZER NUTRIENT	POTASSIUM FERTILIZER NUTRIENT	EROSION CONTROL BLANKET
	ACRE	POUND	POUND	POUND	SQ YD
STA. 1+16 TO STA. 9+88.50 LT	0.49	44.1	44.1	44.1	
STA. 1+16 TO STA. 9+88.50 RT	0.67	60.3	60.3	60.3	
STA. 4+00 TO STA. 4+98, RT					326
STA. 4+00 TO STA. 5+23, LT					325
STA. 5+47 TO STA. 7+64, RT					566
STA. 5+76 TO STA. 7+76, LT					422
STA. 8+15 TO STA. 10+00, RT					206
TOTAL	1.16	104.4	104.4	104.4	1,845

LOCATION	MANHOLES TO BE ADJUSTED	DOUBLE INLET	END SECTION, 15"	PRECAST REINFORCED CONCRETE FLARED END SECTIONS 18"	PIPE CULVERTS, CLASS D, TYPE 1, 15"	PIPE CULVERTS, CLASS D, TYPE 2, 15"	STORM SEWERS, CLASS A, TYPE 1 15"	STORM SEWERS, CLASS A, TYPE 1 18"	TRENCH BACKFILL
	EACH	EACH	EACH	EACH	FOOT	FOOT	FOOT	FOOT	CU YD
STA. 2+94, 27.1' LT	1								6
STA. 3+18									
STA. 3+18, 12' RT		1							
STA. 3+18, 12' LT		1							
STA. 3+18 12' LT TO STA. 3+18 12' RT							25	81	29
STA. 3+18 TO STA. 4+00				1					
STA. 4+00, 30' RT									
STA. 7+52, 25' RT			1						
STA. 7+52 TO STA. 7+98, 25.0' RT							46		
STA. 7+98, 25' RT			1						
STA. 8+85, 28.00' LT			1						
STA. 8+85 TO STA. 9+19, 28.0' LT					35				
STA. 8+85 TO STA. 9+15, 18.0' RT					30				
STA. 9+19, 28.00' LT			1						
TOTAL	1	2	4	1	65	46	25	81	35

LOCATION	ACRE	(OVER 15 UNITS DIAMETER) UNIT
STA. 3+95, 51' RT TO 4+65, 53' RT	0.12	
STA. 4+82, 41' LT TO 5+18, 25' LT		
STA. 5+33, 54' RT TO 5+77, 54' RT	0.05	
STA. 5+69, 3' LT TO 6+02, 13' RT		30
STA. 8+17, 35' RT		30
TOTAL	0.17	30

NAME	DATE
SMI	2/8/06
DAC	3/8/06

SCHEDULE OF QUANTITIES

SCALE: NONE DRAWN BY: SMI
DATE: JANUARY 6, 2006 CHECKED BY: JAK/SAS

McCLURE ENGINEERING ASSOCIATES, INC.
1138 COLUMBUS STREET OTTAWA, ILLINOIS 61350
PHONE (815) 433-2080 FAX (815) 433-5930
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FILE: M:\DRGWS\BUDA\HIGH ST. BRIDGE\GENERAL NOTES.DWG

SCHEDULE OF QUANTITIES

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
MS 1090	*	BUREAU COUNTY	27	7
* SECTION 01-0008-00-BR		ILLINOIS	FED. AID PROJECT	

Contract 85381

ENTRANCE SCHEDULE			
LOCATION	TYPE	AGGREGATE SURFACE COURSE, TYPE B	PORTLAND CEMENT CONCRETE DRIVEWAY PAVEMENT, 6 INCH
		TON	SQ YD
STA. 2+22.18, RT	PRIVATE		34
STA. 2+94.50, LT	ALLEY		51
STA. 7+75, RT	PRIVATE	75	30
STA. 9+01.06, LT	COMMERCIAL	27	57
STA. 9+00, RT	TEMPORARY	152	
TOTAL		254	172

PROTECTIVE COAT	
LOCATION	PROTECTIVE COAT
	SQ YD
STA. 1+16 TO STA. 9+88.50	1,022
TOTAL	
	1,022

PAVEMENT SCHEDULE										
LOCATION	PREPARATION OF BASE	BITUMINOUS MATERIALS (PRIME COAT)	AGGREGATE (PRIME COAT)	AGGREGATE BASE COURSE, TYPE A 12"	BITUMINOUS CONCRETE SURFACE COURSE, SUPERPAVE, MIX "C", N50	BITUMINOUS CONCRETE BINDER COURSE, SUPERPAVE, IL-19.0, N50	BITUMINOUS SHOULDERS 6"	COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.24	CURB AND GUTTER OUTLET, SPECIAL	
	SQ YD	GALLON	TON	SQ YD	TON	TON	SQ YD	FOOT	EACH	
STA. 1+16 TO STA. 9+88.50	2,173									
STA. 1+15, 37' RT									1	
STA. 1+15 TO STA. 4+42, RT								339		
STA. 1+16.36 TO STA. 4+49.06		274	1.83	914	78	118				
STA. 1+19, 39' LT									1	
STA. 1+19 TO STA. 4+57, LT								356		
CENTER STREET CULDESAC		100	0.67	333	29	43				
STA. 6+15 TO STA. 8+51, RT								240		
STA. 6+21.65 TO STA. 9+88.50		284	1.89	946	81	121				
STA. 6+29 TO STA. 9+55, LT								326		
STA. 8+39 TO STA. 8+89, RT							21			
STA. 9+11 TO STA. 9+88.50, RT							34			
STA. 9+55 TO STA. 9+88.50, LT							18			
TOTAL		2,173	658	4.39	2,193	188	282	73	1,261	2

GUARDRAIL									
LOCATION	TRAFFIC BARRIER TERMINAL TYPE 2	TRAFFIC BARRIER TERMINAL TYPE 6A	TRAFFIC BARRIER TERMINAL TYPE 6	TRAFFIC BARRIER TERMINAL TYPE 1, SPECIAL (TANGENT)	TRAFFIC BARRIER TERMINAL TYPE 1, SPECIAL (FLARED), MODIFIED	GUARDRAIL MARKERS	TERMINAL MARKER DIRECT APPLIED	STEEL PLATE BEAM GUARDRAIL, TYPE A	
	EACH	EACH	EACH	EACH	EACH	EACH	EACH	FOOT	
STA. 3+81 LT							1		
STA. 3+83 RT							1		
STA. 3+81 TO STA. 4+63 LT						1			
STA. 3+83 TO STA. 4+38 RT						1			
STA. 3+81 TO STA. 4+06 LT				1					
STA. 3+83 TO STA. 4+08 RT				1					
STA. 4+06 TO STA. 4+31 LT								25	
STA. 4+07 TO STA. 4+38 RT		1							
STA. 4+32 TO STA. 4+63 LT			1						
STA. 6+12 TO STA. 6+43 RT		1							
STA. 6+12 TO STA. 7+66 RT						2			
STA. 6+34 TO STA. 6+65 LT			1						
STA. 6+34 TO STA. 7+74 RT						2			
STA. 6+43 TO STA. 7+57 RT								112.5	
STA. 6+65 TO STA. 7+24 LT								62.5	
STA. 7+24 TO STA. 7+74 LT				1					
STA. 7+57 TO STA. 7+66 RT	1								
STA. 7+66 LT							1		
STA. 7+74 RT							1		
TOTAL		1	2	2	1	2	6	4	200

PAVEMENT MARKING SCHEDULE	
LOCATION	PAINT PAVEMENT MARKING- LINE 4"
	FOOT
STA. 1+43.4 to STA. 10+09.8	1,733
TOTAL	
	1,733

REVISIONS	
NAME	DATE
SMI	2/8/06
DAC	3/8/06

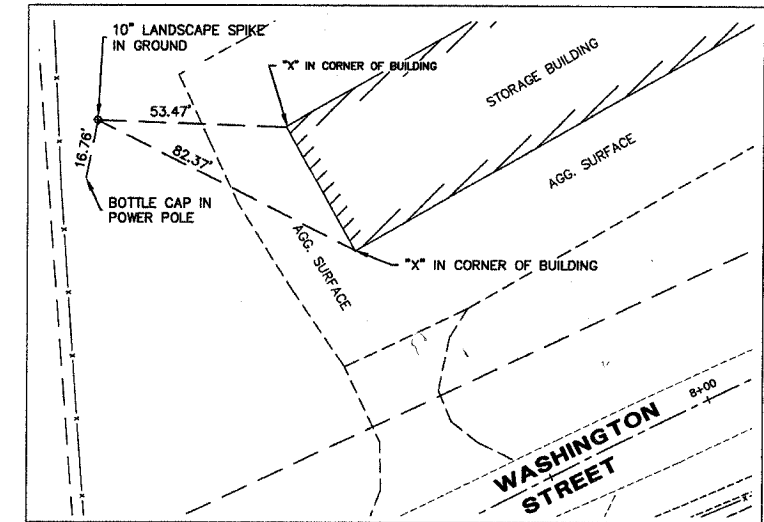
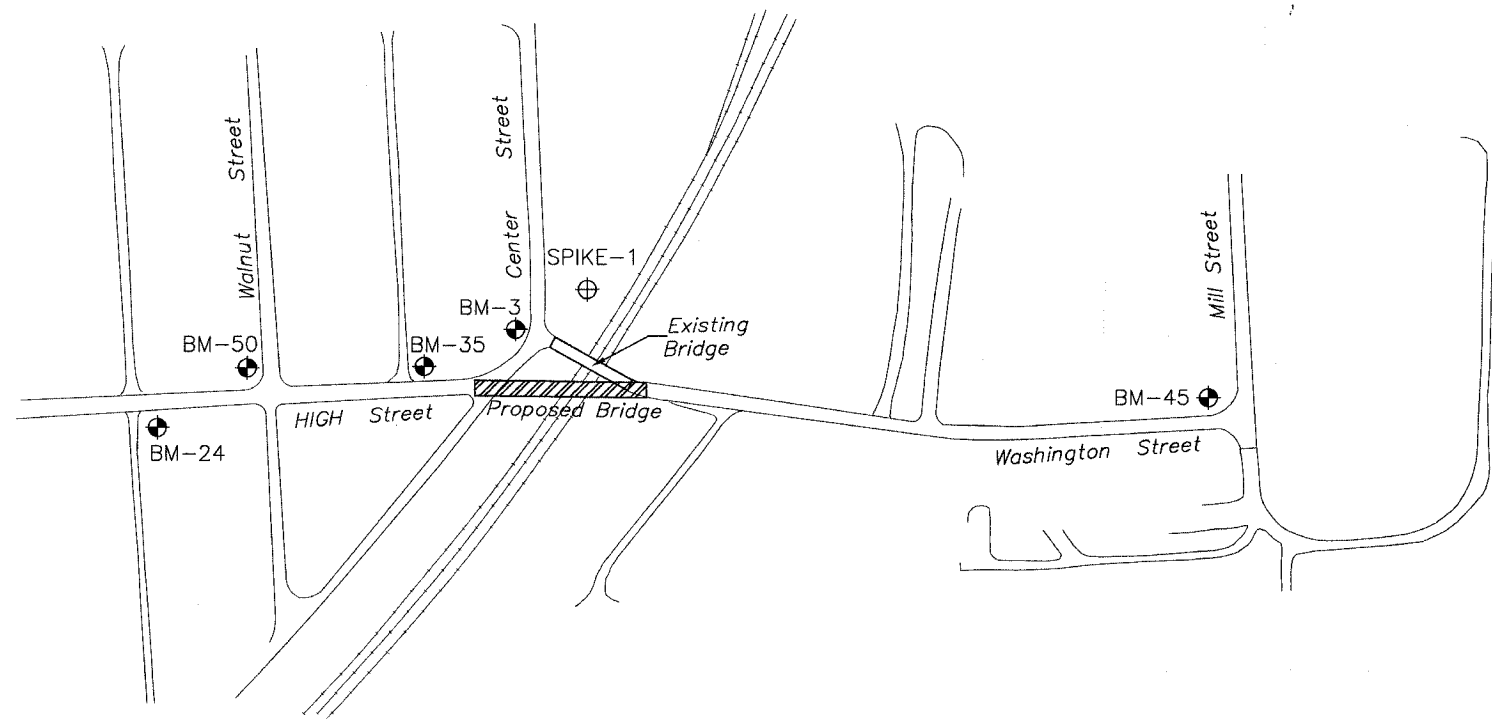
SCHEDULE OF QUANTITIES

SCALE: NONE DRAWN BY: SMI
DATE: JANUARY 6, 2006 CHECKED BY: JAK/SAS

McCLURE ENGINEERING ASSOCIATES, INC.
1138 COLUMBUS STREET, OTTAWA, ILLINOIS 61350
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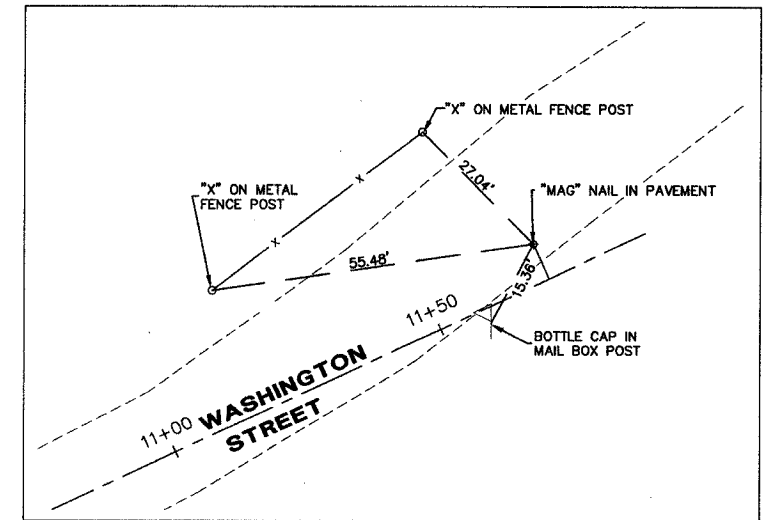
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MS 1090	*	BUREAU COUNTY	27	8
SECTION 01-00008-00-BR		ILLINOIS	FED. AID PROJECT	



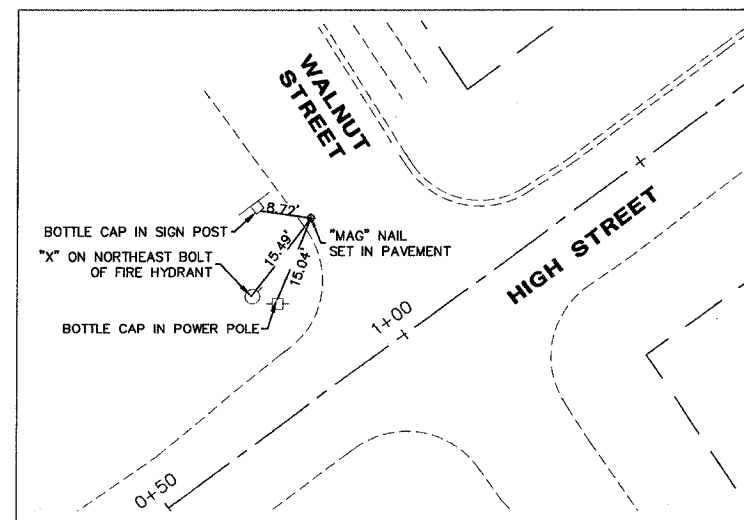
CONTROL POINT #3
STA 6+83.61 -- 149.89' LT

BENCHMARK SCHEDULE

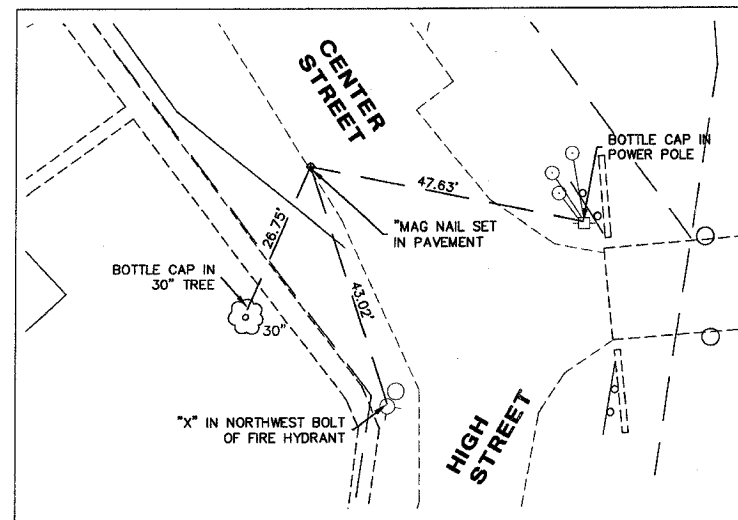
BENCHMARK	LOCATION	U.S.G.S. ELEVATION (FT.)
BM-1 (USGS)	EAST MAIN AND PROVIDENCE	753.00
BM-3	F.H. AT CENTER AND HIGH	785.32
BM-24	Head of R.R. SPIKE IN PP AT SE CORNER OF HIGH AND 1ST ALLEY E. OF PINE	796.83
BM-35	Head of R.R. SPIKE IN PP AT NE CORNER OF HIGH AND 2ND ALLEY E. OF PINE	787.00
BM-45	"M" IN MUELLER ON F.H. AT NW CORNER OF MILL AND WASHINGTON	781.90
BM-50	"M" IN MUELLER ON F.H. AT NW CORNER OF WALNUT AND HIGH STREET	795.39



CONTROL POINT #4
STA 11+70.43 -- 6.44' LT



CONTROL POINT #1
STA 0+99.00 -- 25.69' LT



CONTROL POINT #2
STA 4+66.42 -- 108.93' LT

REVISIONS	
NAME	DATE

ALIGNMENT TIES AND BENCHMARKS

SCALE: NONE DRAWN BY: GRR
DATE: JANUARY 6, 2006 CHECKED BY: JAK/SAS

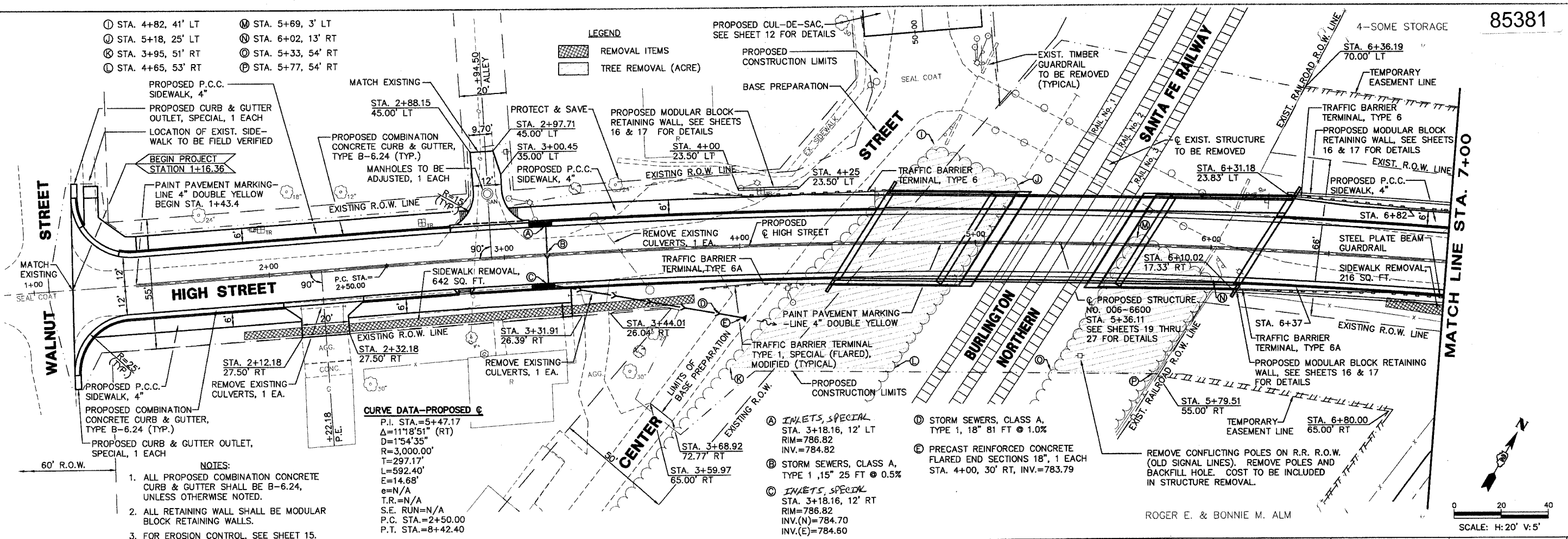
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FILE: H:\DRG\BUREAU HIGH ST. BRIDGE\BENCHMARKS\TIES.DWG

- ① STA. 4+82, 41' LT
- ② STA. 5+18, 25' LT
- ③ STA. 3+95, 51' RT
- ④ STA. 4+65, 53' RT
- ⑤ STA. 5+69, 3' LT
- ⑥ STA. 6+02, 13' RT
- ⑦ STA. 5+33, 54' RT
- ⑧ STA. 5+77, 54' RT

LEGEND
 REMOVAL ITEMS
 TREE REMOVAL (ACRE)

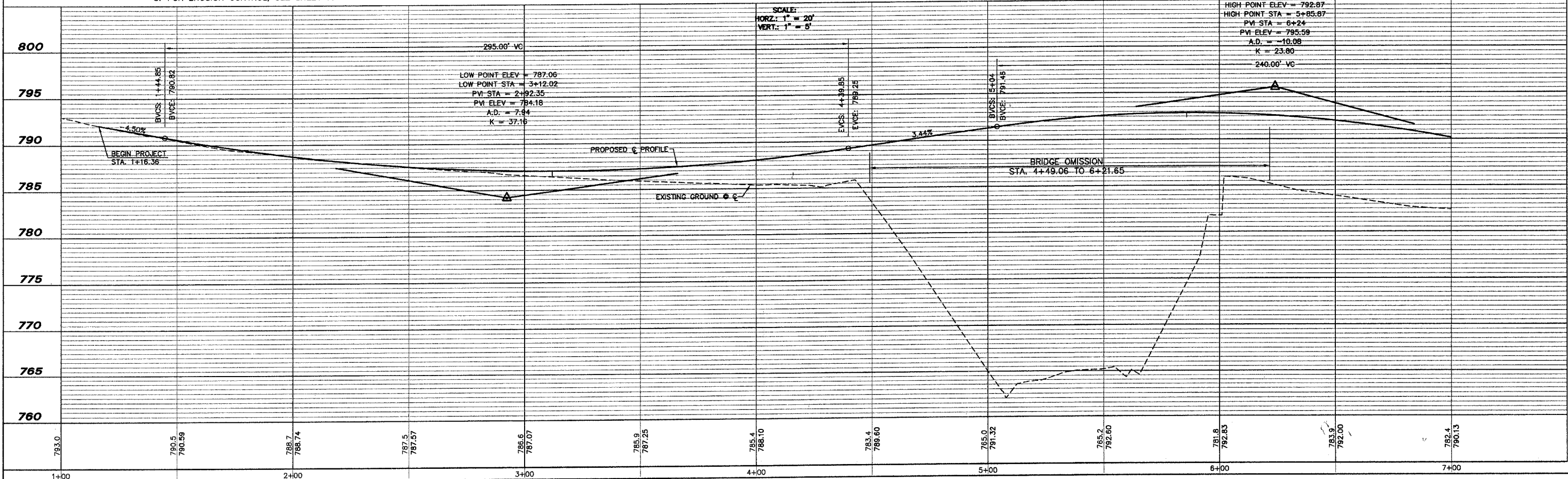
PROPOSED CUL-DE-SAC, SEE SHEET 12 FOR DETAILS
 PROPOSED CONSTRUCTION LIMITS
 BASE PREPARATION
 SEAL COAT



- NOTES:**
- ALL PROPOSED COMBINATION CONCRETE CURB & GUTTER SHALL BE B-6.24, UNLESS OTHERWISE NOTED.
 - ALL RETAINING WALL SHALL BE MODULAR BLOCK RETAINING WALLS.
 - FOR EROSION CONTROL, SEE SHEET 15.

CURVE DATA-PROPOSED C
 P.I. STA.=5+47.17
 $\Delta=111^{\circ}18'51''$ (RT)
 $D=1^{\circ}54'35''$
 $R=3,000.00'$
 $T=297.17'$
 $L=592.40'$
 $E=14.68'$
 $e=N/A$
 $T.R.=N/A$
 $S.E. RUN=N/A$
 P.C. STA.=2+50.00
 P.T. STA.=8+42.40

- A INLETS, SPECIAL
 STA. 3+18.16, 12' LT
 RIM=786.82
 INV.=784.82
- B STORM SEWERS, CLASS A,
 TYPE 1, 18" 81 FT @ 1.0%
- C INLETS, SPECIAL
 STA. 3+18.16, 12' RT
 RIM=786.82
 INV.(N)=784.70
 INV.(E)=784.60



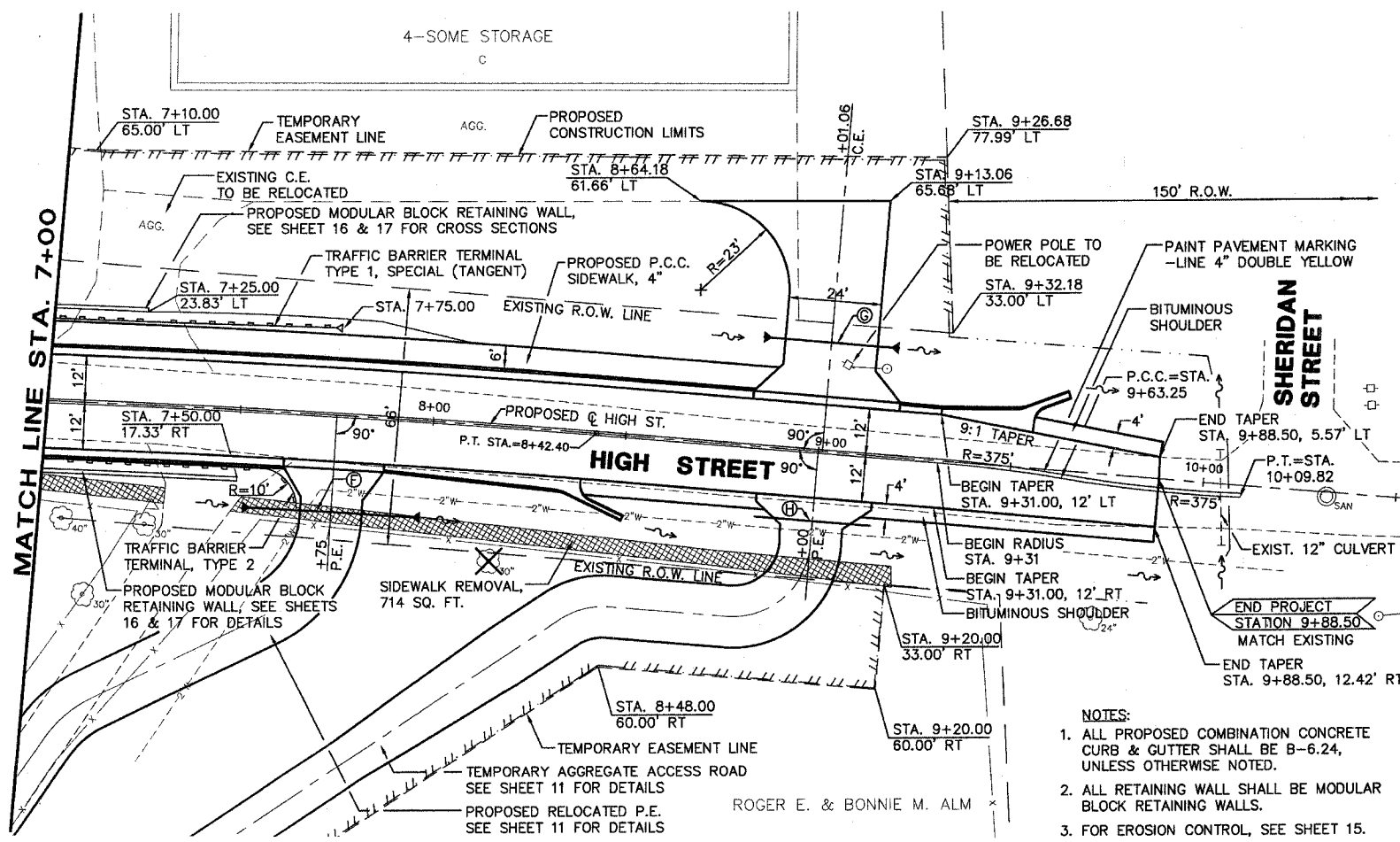
NO.	REVISIONS	DATE

NO.	REVISIONS	DATE

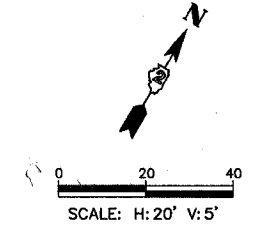
SCALE: HORIZ. 1" = 20'
 VERT. 1" = 5'
 DRAWN BY: JAB/DAC
 CHECKED BY: JAK/SAS
 DATE: 2/9/06

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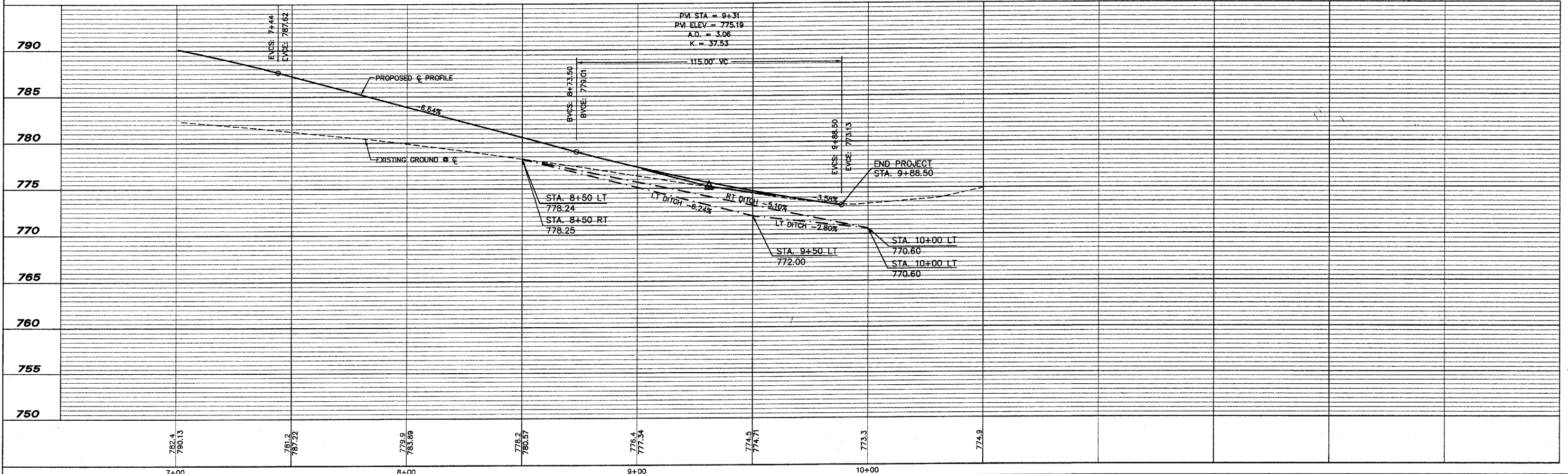
PLAN & PROFILE
HIGH STREET BRIDGE REPLACEMENT
BUDA, ILLINOIS
 FILE NAME: M:\DRAWINGS\Buda\High St Bridge\BASE-Elevated-2005.dwg JOB No.: BU-06-30-04-032



- LEGEND**
- REMOVAL ITEMS
 - TREE REMOVAL (ACRE)
 - ⊖ PIPE CULVERTS, CLASS D, TYPE 2, 15" 46 LF
END SECTIONS, 15" 2 EACH
USFL=779.88, STA. 7+49.83
DSFL=779.72, STA. 8+00.17
 - ⊙ PIPE CULVERTS, CLASS D, TYPE 1, 15" 35 LF
END SECTIONS, 15" 2 EACH
USFL=775.65, STA. 8+83.56
DSFL=775.04, STA. 9+18.56
 - ⊕ PIPE CULVERTS, CLASS D, TYPE 1, 15" 30 LF
USFL=775.41, STA. 8+85.00
DSFL=774.59, STA. 9+15.00



- NOTES:**
1. ALL PROPOSED COMBINATION CONCRETE CURB & GUTTER SHALL BE B-6.24, UNLESS OTHERWISE NOTED.
 2. ALL RETAINING WALL SHALL BE MODULAR BLOCK RETAINING WALLS.
 3. FOR EROSION CONTROL, SEE SHEET 15.



REVISIONS		
NO.	ITEM	DATE
1.	MOVE DRIVE FROM STA. 8+77.05 LT TO 9+01.76 LT	3/7/06

SCALE:	HORIZ. 1" = 20'
	VERT. 1" = 5'
DRAWN BY:	JUB/DAC
CHECKED BY:	JAK/SAS
DATE:	2/9/06

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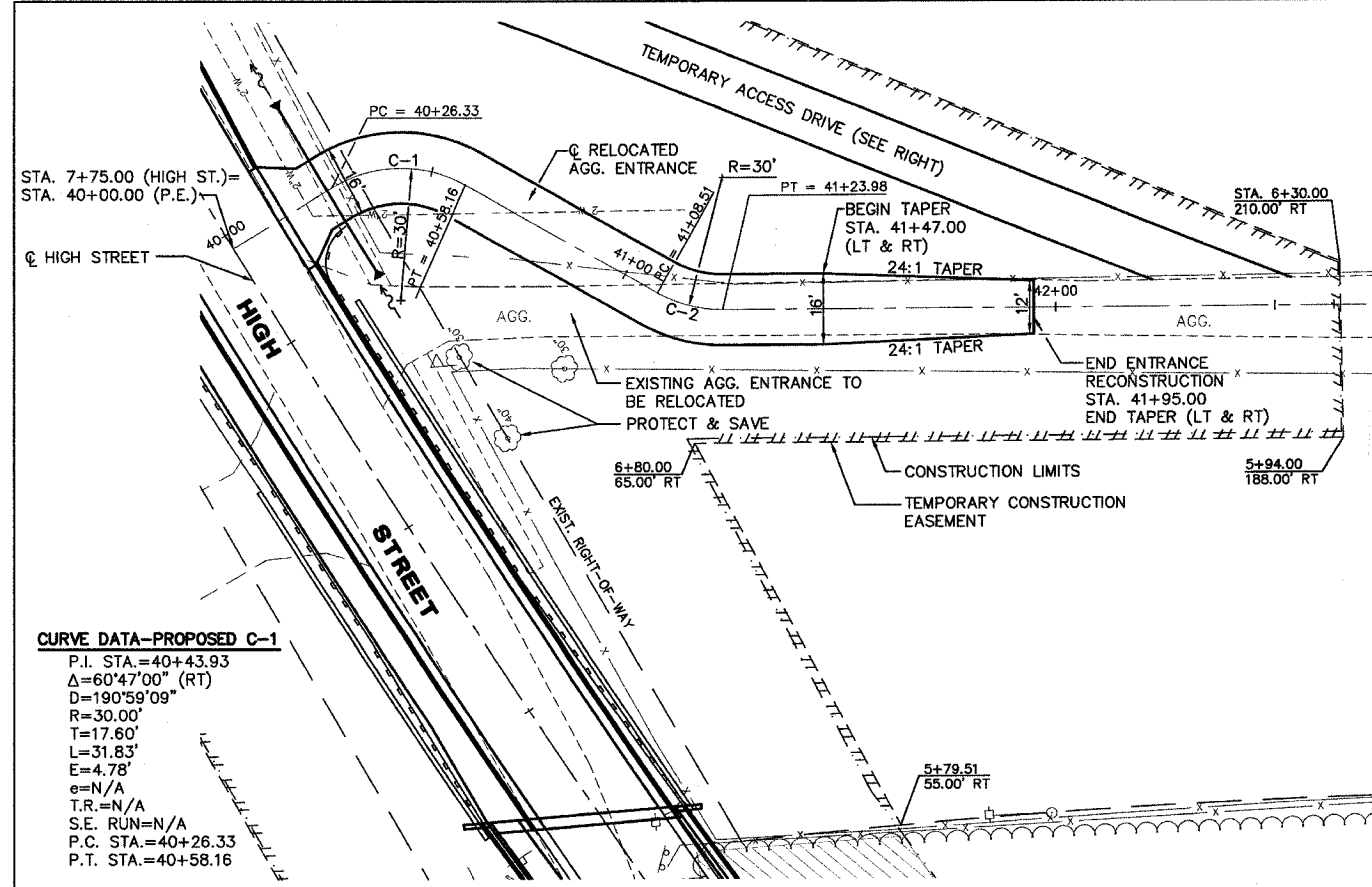
PLAN & PROFILE

HIGH STREET BRIDGE REPLACEMENT

BUDA, ILLINOIS

FILE NAME: M:\DRAWINGS\Buda\High St Bridge\BASE-Elevated-2005.dwg
JOB No.: BU-06-30-04-032

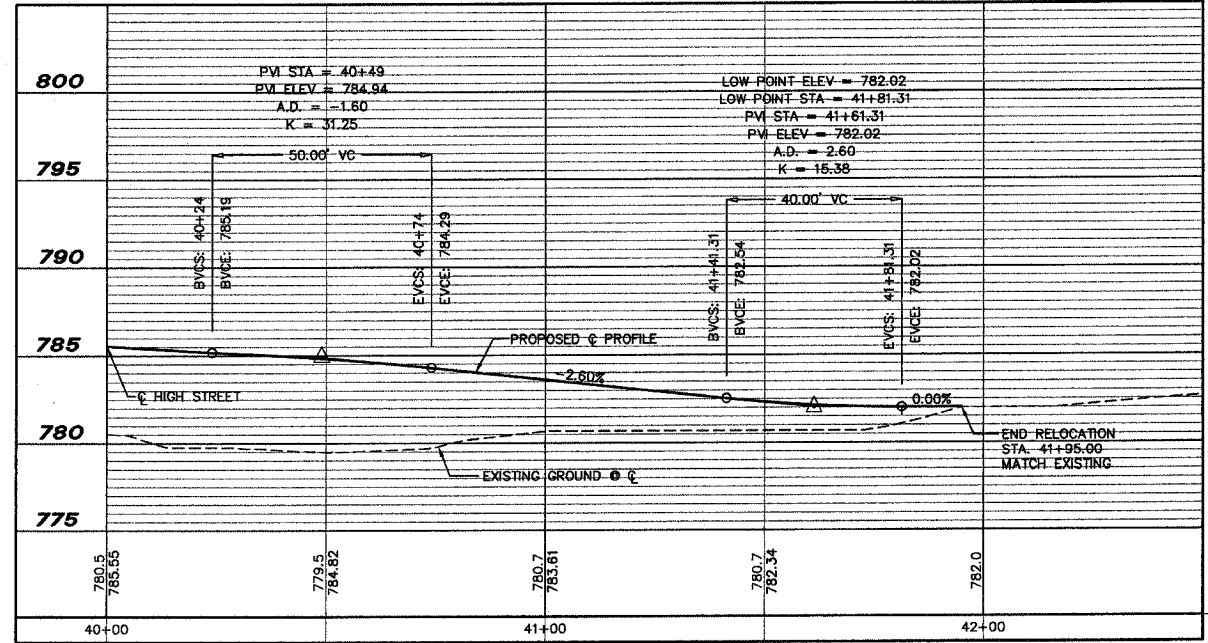
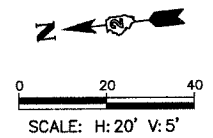
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
MS 1090	*	BUREAU COUNTY	27	11
SECTION 01-00008-00-BR		ILLINOIS	FED. AID PROJECT	



CURVE DATA-PROPOSED C-1
 P.I. STA. = 40+43.93
 Δ = 60°47'00" (RT)
 D = 190°59'09"
 R = 30.00'
 T = 17.60'
 L = 31.83'
 E = 4.78'
 e = N/A
 T.R. = N/A
 S.E. RUN = N/A
 P.C. STA. = 40+26.33
 P.T. STA. = 40+58.16

CURVE DATA-PROPOSED C-2
 P.I. STA. = 41+16.42
 Δ = 29°33'21" (LT)
 D = 190°59'09"
 R = 30.00'
 T = 7.91'
 L = 15.48'
 E = 1.03'
 e = N/A
 T.R. = N/A
 S.E. RUN = N/A
 P.C. STA. = 41+08.51
 P.T. STA. = 41+23.98

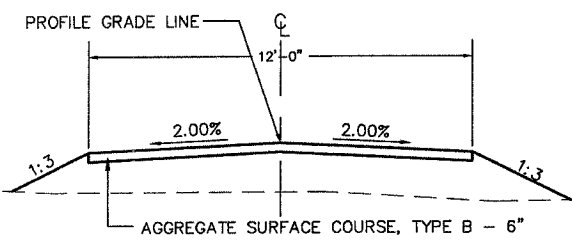
DRIVEWAY RELOCATION - STA. 7+75 RT



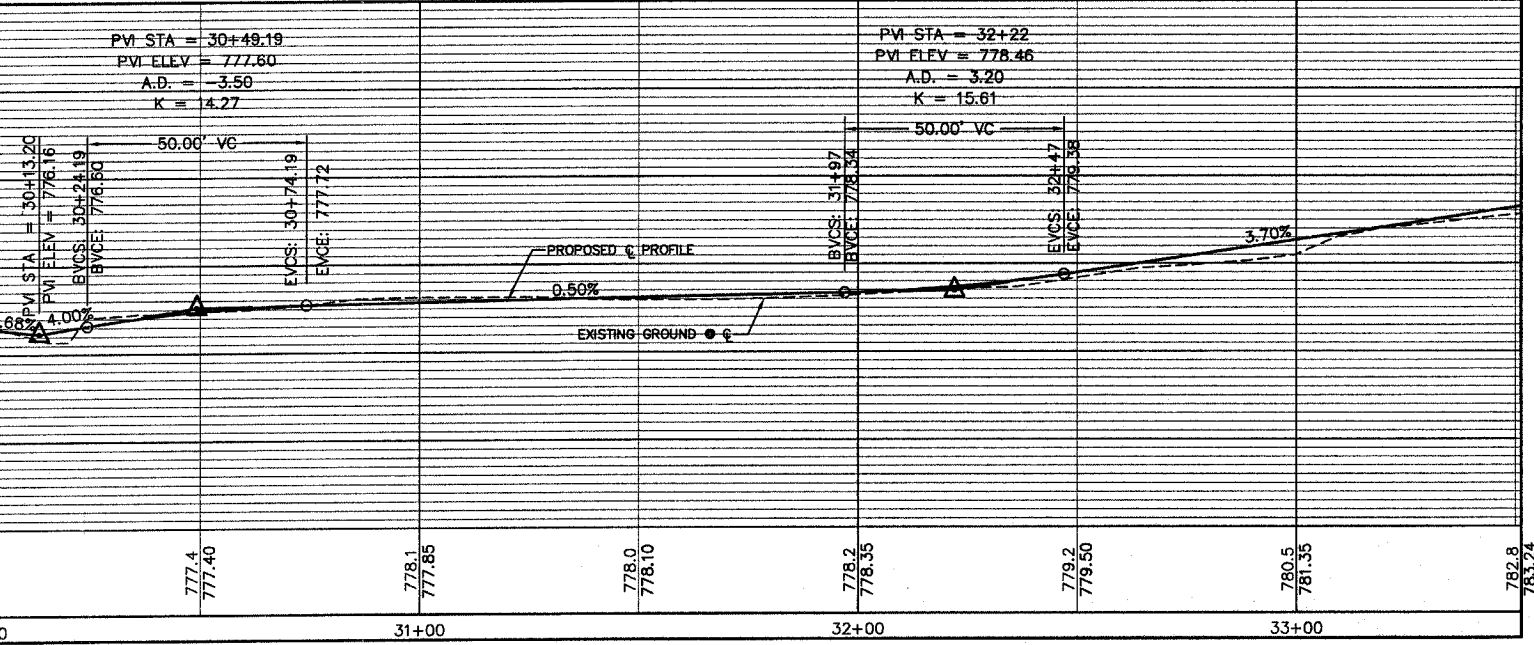
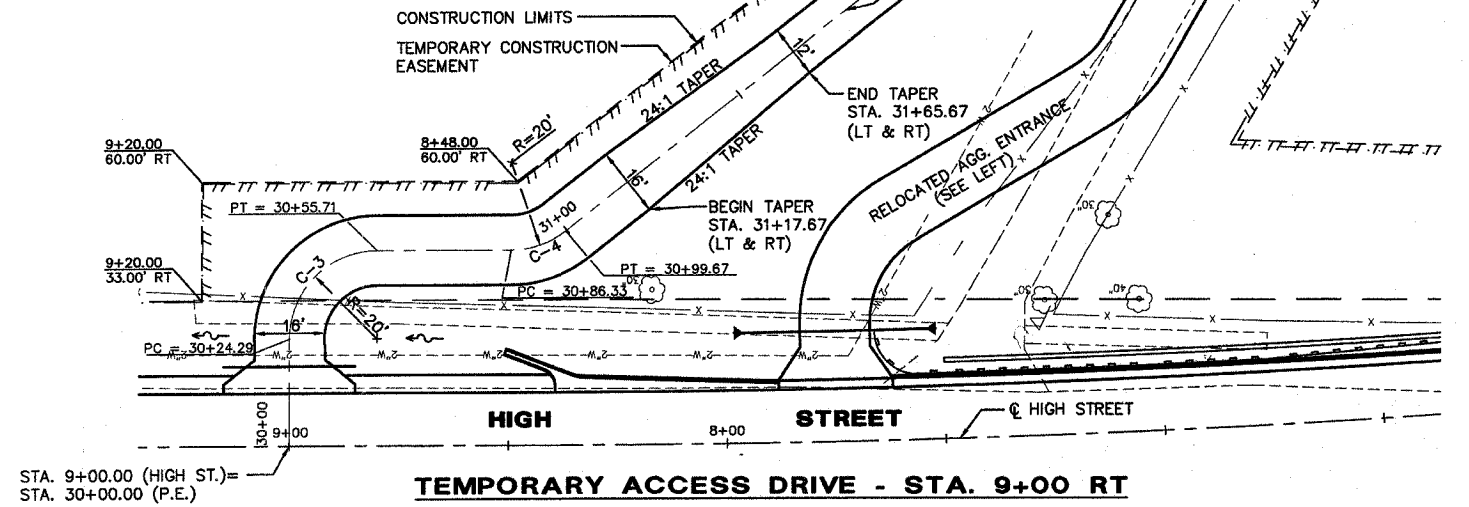
CURVE DATA-PROPOSED C-3
 P.I. STA. = 30+44.29
 Δ = 90°00'00" (RT)
 D = 286°28'44"
 R = 20.00'
 T = 20.00'
 L = 31.42'
 E = 8.28'
 e = N/A
 T.R. = N/A
 S.E. RUN = N/A
 P.C. STA. = 30+24.29
 P.T. STA. = 30+55.71

CURVE DATA-PROPOSED C-4
 P.I. STA. = 30+93.26
 Δ = 38°12'31" (LT)
 D = 286°28'44"
 R = 20.00'
 T = 6.93'
 L = 13.34'
 E = 1.17'
 e = N/A
 T.R. = N/A
 S.E. RUN = N/A
 P.C. STA. = 30+86.33
 P.T. STA. = 30+99.67

CURVE DATA-PROPOSED C-5
 P.I. STA. = 33+47.49
 Δ = 21°51'04" (LT)
 D = 286°28'44"
 R = 20.00'
 T = 3.86'
 L = 7.63'
 E = 0.37'
 e = N/A
 T.R. = N/A
 S.E. RUN = N/A
 P.C. STA. = 33+43.63
 P.T. STA. = 33+51.25



TEMPORARY ACCESS DRIVE AT STA 9+00.00

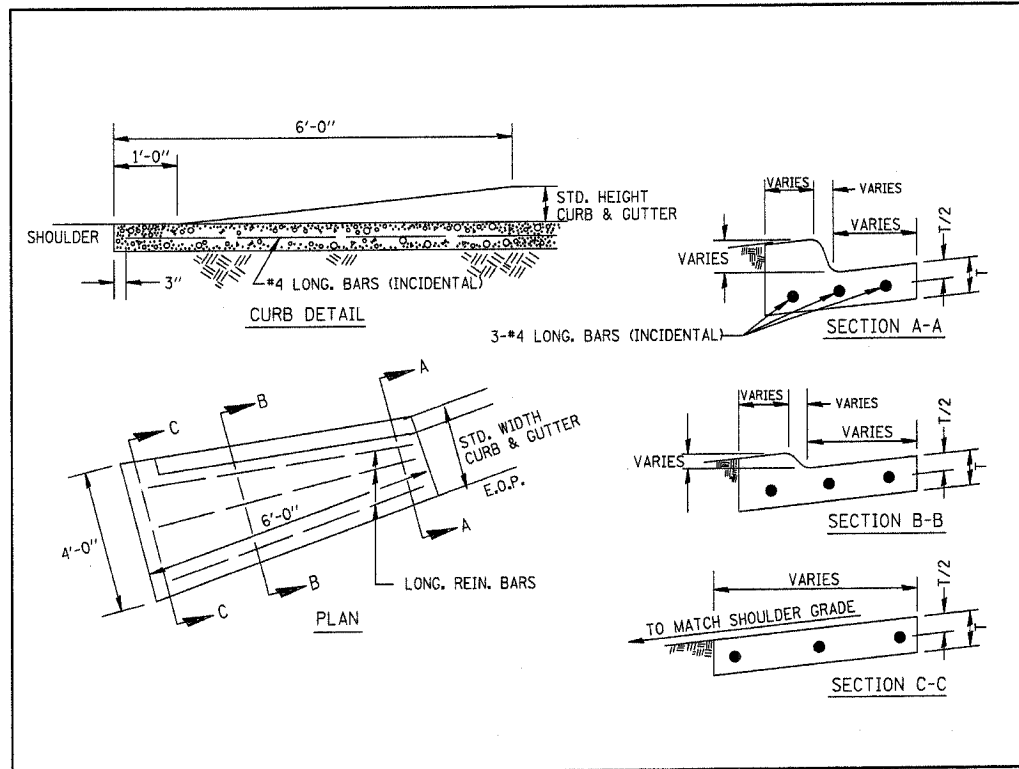


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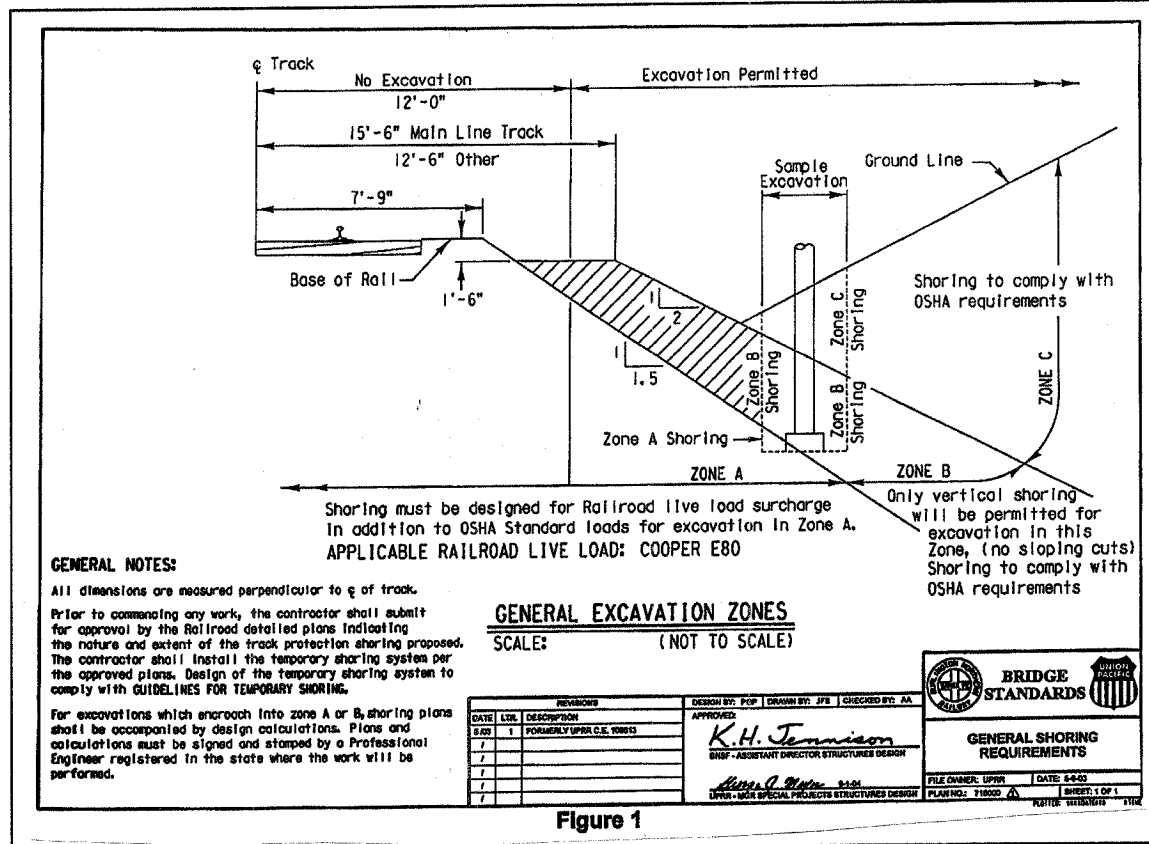
REVISIONS	
NAME	DATE

PLAN & PROFILE DRIVEWAY & TEMPORARY ACCESS
 SCALE: H: 20' V: 5' DRAWN BY: DAC
 DATE: FEBRUARY 14, 2006 CHECKED BY: JAK/SAS
 FILE: H:\DRVG\BUDA\HIGH ST. BRIDGE BASE-ELEVATED-2005

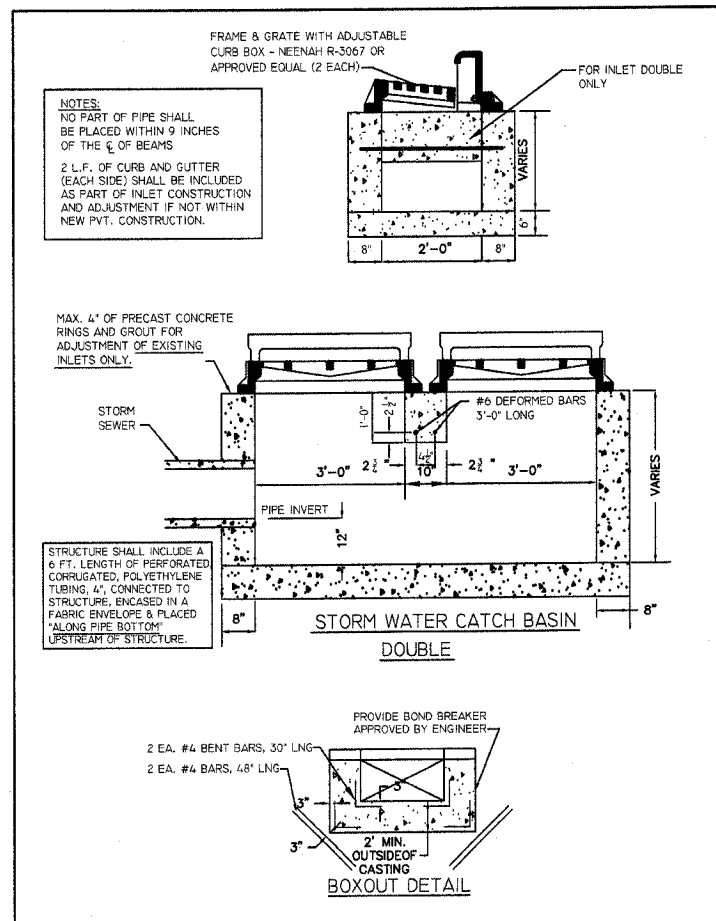
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
MS 1090	*	BUREAU COUNTY	27	12
* SECTION 01-0008-00-BR		ILLINOIS	FED. AID PROJECT	



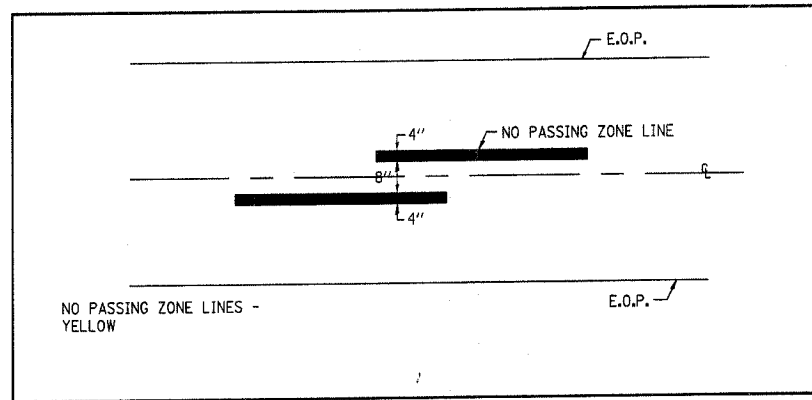
GUTTER OUTLET, SPECIAL



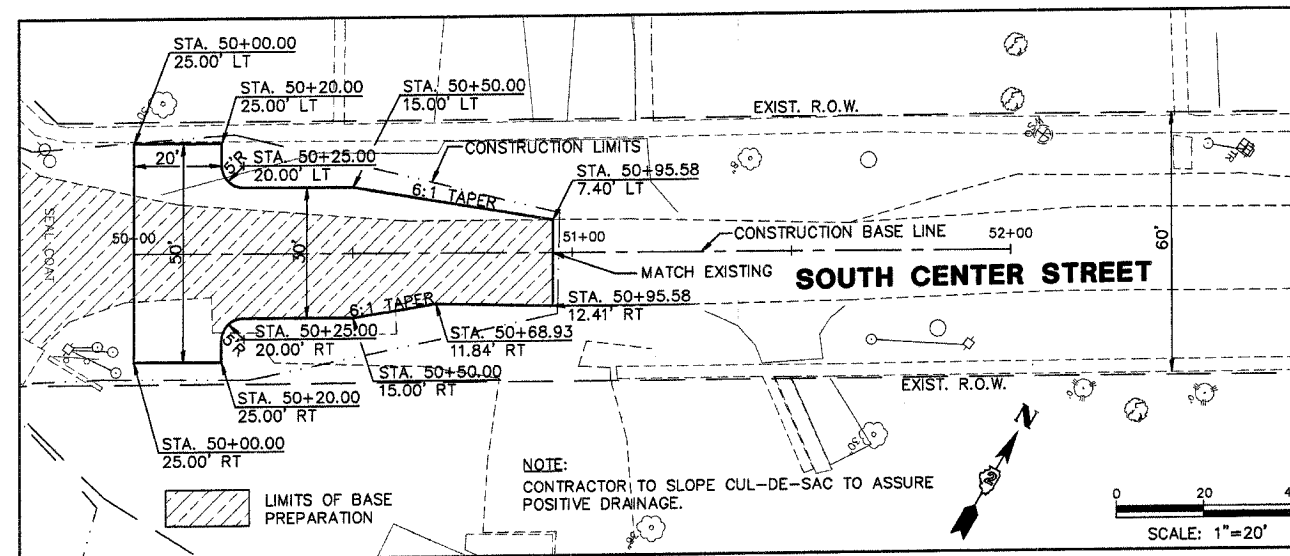
GENERAL SHORING REQUIREMENTS - BNSF



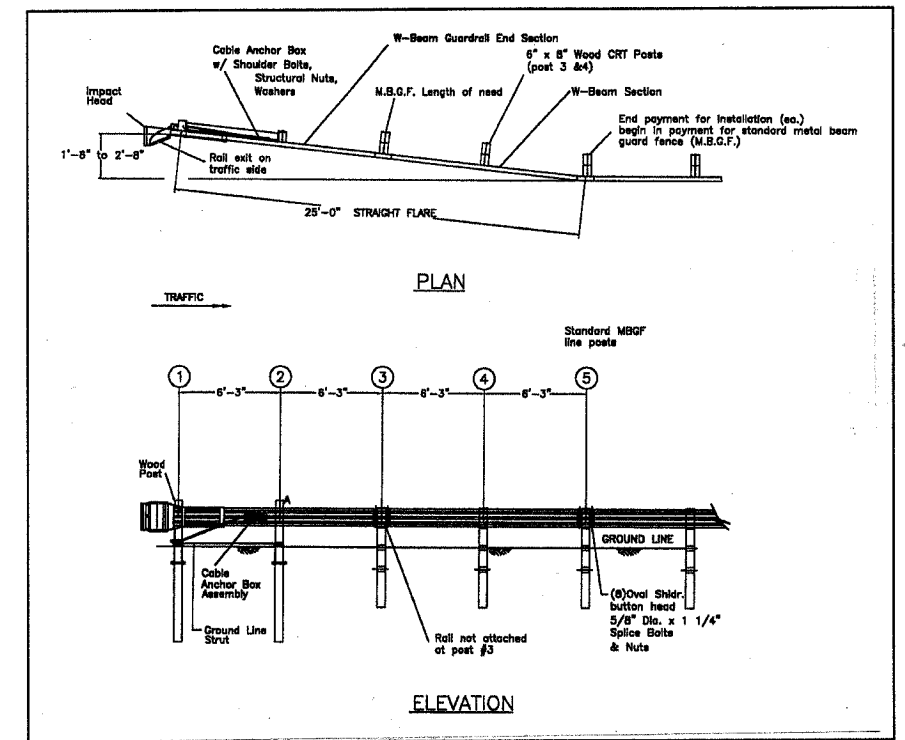
DOUBLE INLET DETAIL



PAVEMENT MARKING



CUL-DE-SAC DETAIL



TRAFFIC BARRIER TERMINAL, TYPE 1, SPECIAL (FLARED) MODIFIED

REVISIONS	
NAME	DATE

MISC. DETAILS

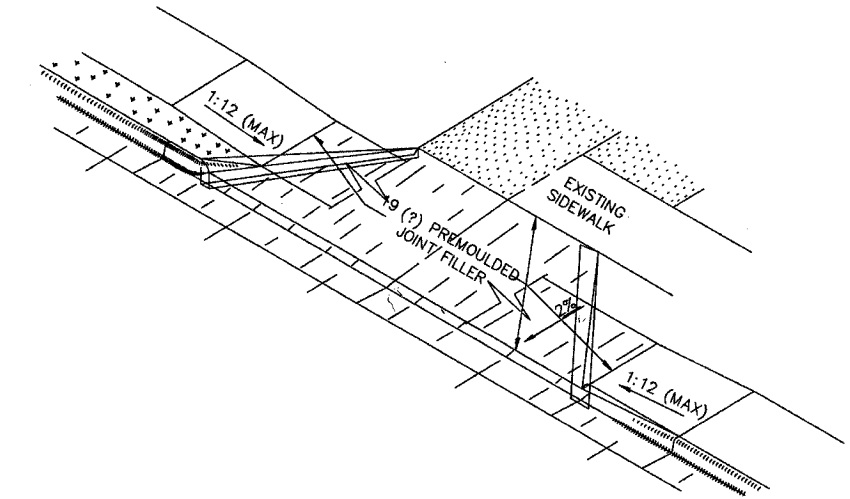
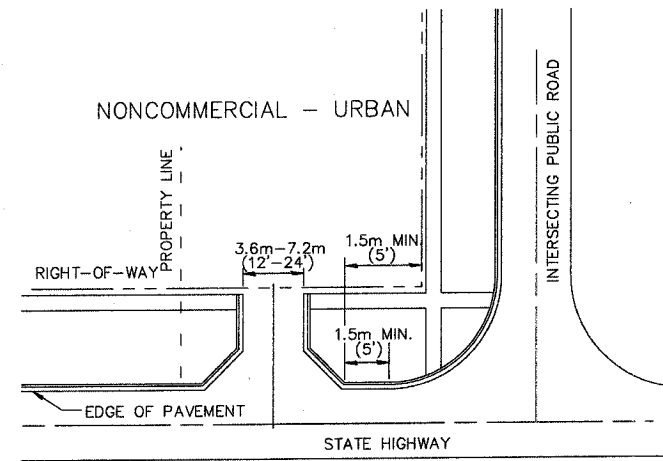
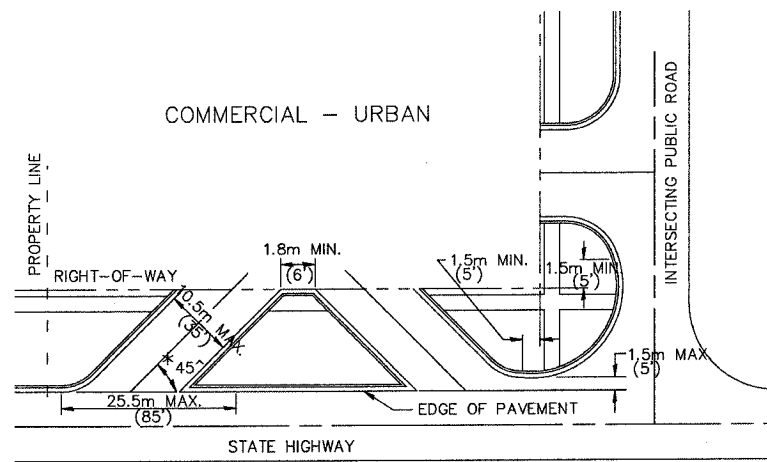
SCALE: NONE
 DATE: JANUARY 6, 2006
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DRAWN BY: SMI
 CHECKED BY: JAK/SAS

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
MS 1090	*	BUREAU COUNTY	27	13
* SECTION 01-00008-00-BR ILLINOIS FED. AID PROJECT				

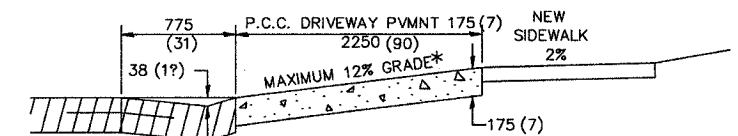
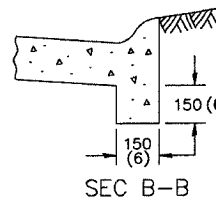
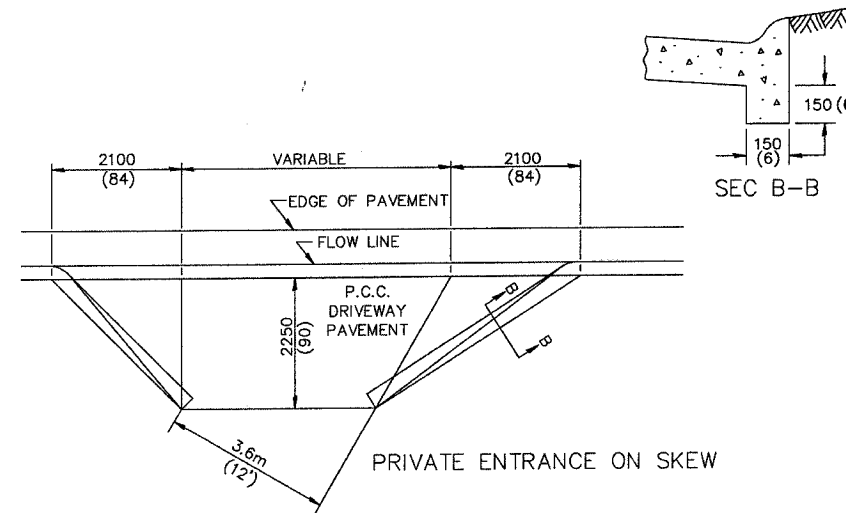
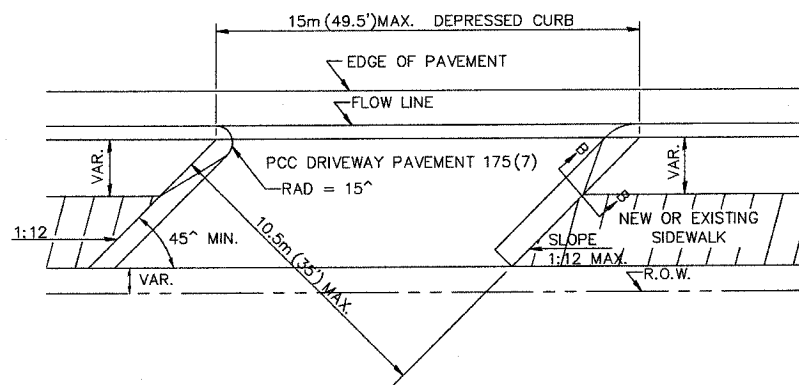
ENTRANCE APPROACHES – URBAN AREA

TYPICAL APPLICATION OF ENTRANCES



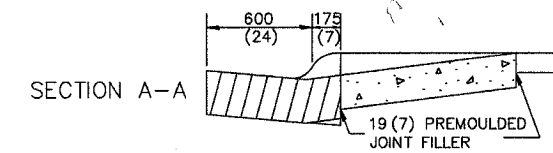
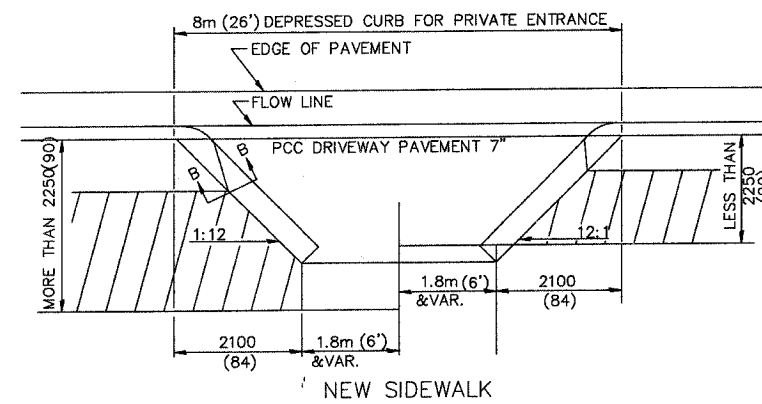
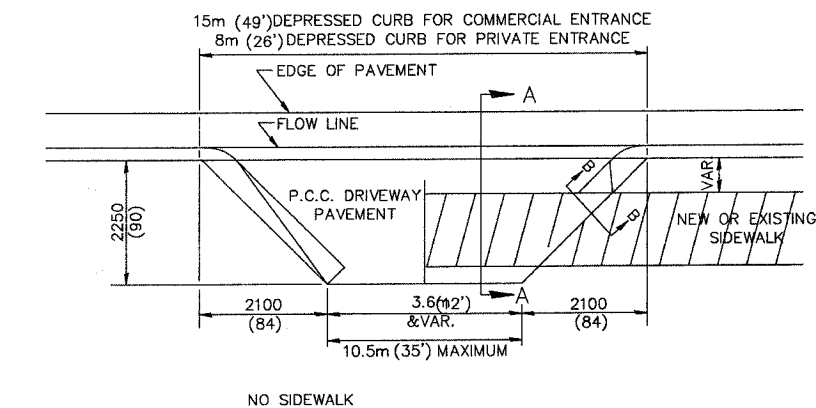
WHEN THE ISLAND BETWEEN DRIVES IS LESS THAN 7.5m (25') LONG OR LESS THAN 10 FEET WIDE, IT SHALL BE DEFINED BY CURBS, MASONRY, OR OTHER DEVICES.

* 45° MIN. ANGLE PERMITTED ONLY FOR ONE-WAY DRIVEWAYS.
60° MIN. ANGLE FOR TWO-WAY DRIVEWAYS.



ASCENDING APPROACH

* IN CASES WHERE GRADE EXCEEDS 12%, THE RESIDENT ENGINEER SHALL CHECK WITH DISTRICT DESIGN OFFICE TO DETERMINE NEW APPROACH GRADE. PARTICULAR ATTENTION SHALL BE PAID TO THE NEGATIVE GRADE TO PREVENT DRAINAGE FROM OVER FLOWING INTO THE PRIVATE ENTRANCE.



THE VARIABLE HEIGHT INTEGRAL CURB AND PREMOULDED JOINT FILLER WILL NOT BE PAID FOR SEPARATELY, BUT SHALL BE INCLUDED IN THE CONTRACT UNIT PRICE OF DRIVEWAY PAVEMENT OF THE THICKNESS SPECIFIED.

25.1
REVISED 2-7-90

ALL DIMENSIONS ARE IN MILLIMETERS (INCHES) UNLESS OTHERWISE NOTED.

REVISIONS	
NAME	DATE

MISC. DETAILS

SCALE: NONE DRAWN BY: SMI
DATE: JANUARY 6, 2006 CHECKED BY: JAK/SAS

McCLURE ENGINEERING ASSOCIATES, INC.
1138 COLUMBUS STREET OTTAWA, ILLINOIS 61350
PHONE (815) 433-2080 FAX (815) 433-5930
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FILE: M:\DRWGS\BUDA\HIGH ST. BRIDGE\GENERAL NOTES.DWG

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
MS 1090	*	BUREAU COUNTY	27	14
SECTION 01-00008-00-BR		ILLINOIS	FED. AID PROJECT	

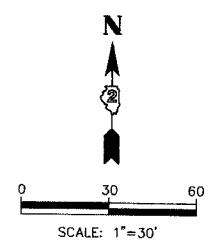
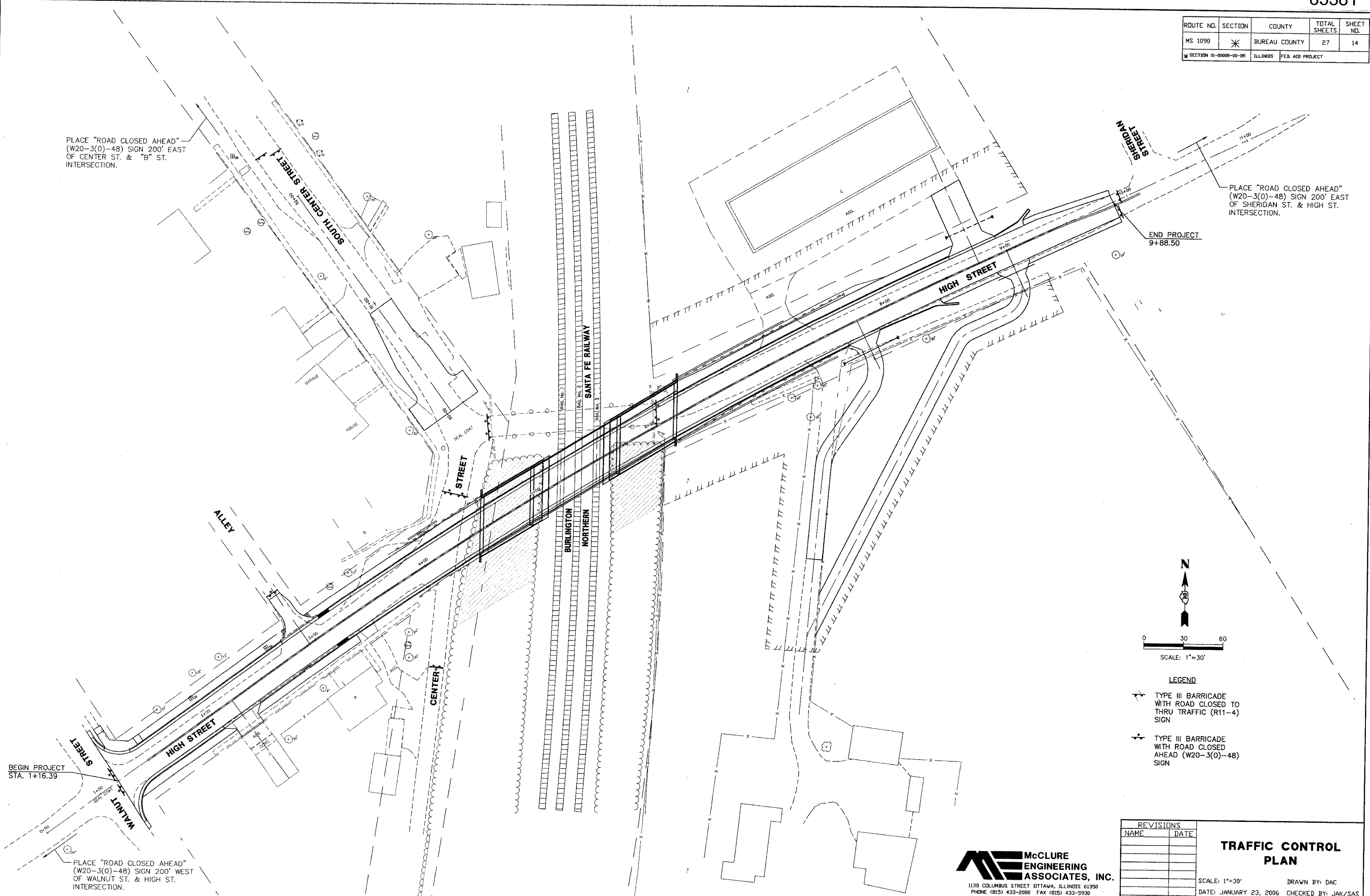
PLACE "ROAD CLOSED AHEAD"
(W20-3(0)-48) SIGN 200' EAST
OF CENTER ST. & "B" ST.
INTERSECTION.

PLACE "ROAD CLOSED AHEAD"
(W20-3(0)-48) SIGN 200' EAST
OF SHERIDAN ST. & HIGH ST.
INTERSECTION.

END PROJECT
9+88.50

BEGIN PROJECT
STA. 1+16.39

PLACE "ROAD CLOSED AHEAD"
(W20-3(0)-48) SIGN 200' WEST
OF WALNUT ST. & HIGH ST.
INTERSECTION.



- LEGEND**
- TYPE III BARRICADE WITH ROAD CLOSED TO THRU TRAFFIC (R11-4) SIGN
 - TYPE III BARRICADE WITH ROAD CLOSED AHEAD (W20-3(0)-48) SIGN

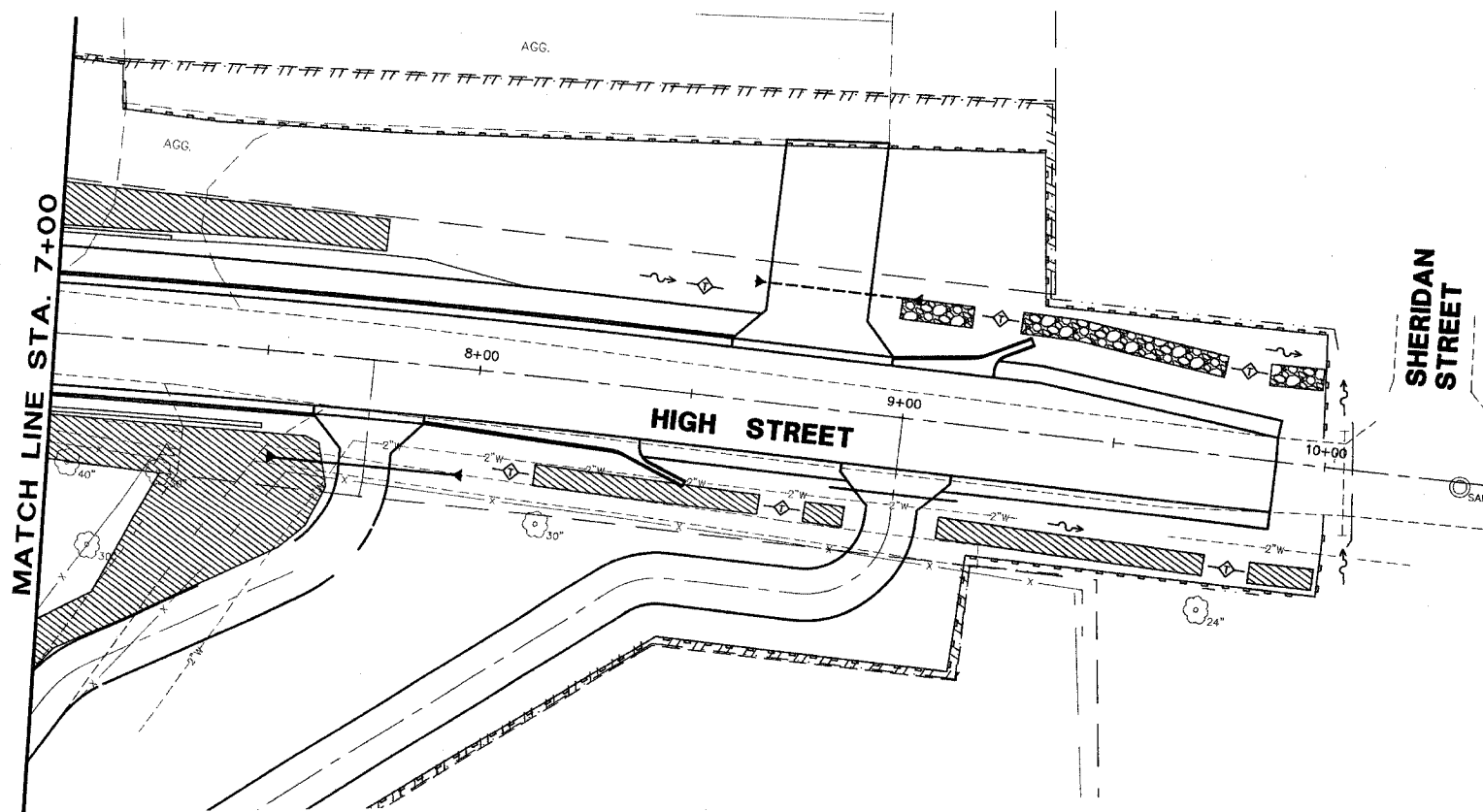
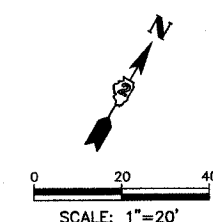
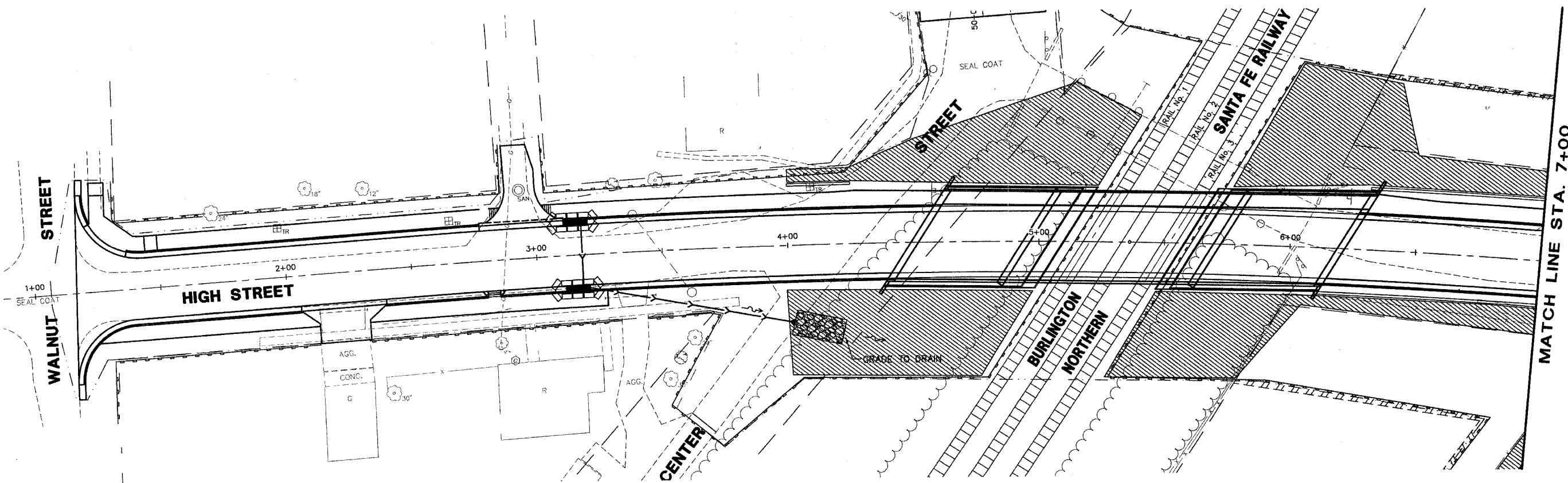
REVISIONS	
NAME	DATE

TRAFFIC CONTROL PLAN






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DATE: JANUARY 23, 2006 CHECKED BY: JAK/SAS

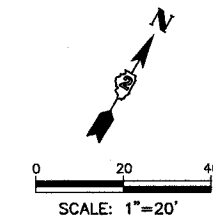
McCLURE ENGINEERING ASSOCIATES, INC.
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ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
MS 1090	*	BUREAU COUNTY	27	15
* SECTION 01-00000-00-00		ILLINOIS	FED. AID PROJECT	



LEGEND

-  PERIMETER EROSION BARRIER
-  INLET & PIPE PROTECTION
-  TEMPORARY DITCH CHECK
-  EROSION CONTROL BLANKET
-  STONE RIPRAP CL A3



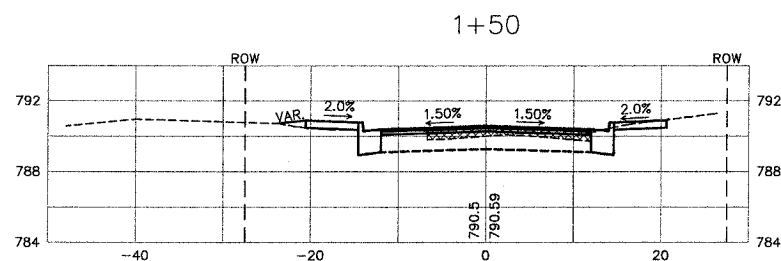
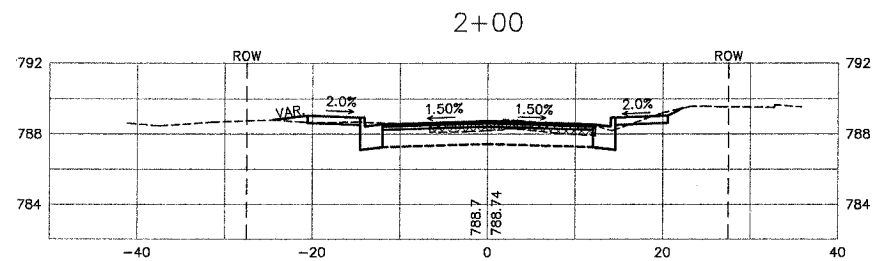
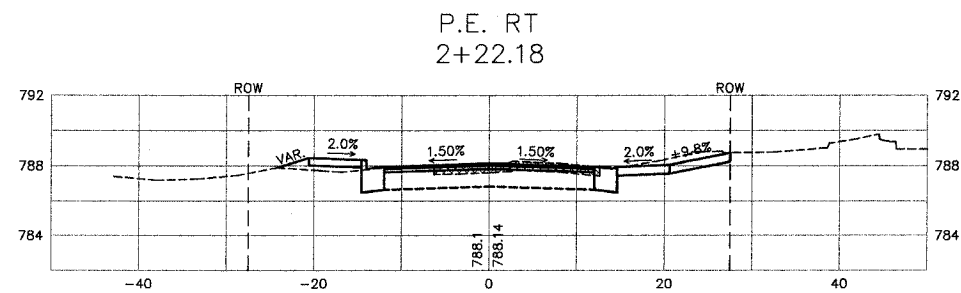
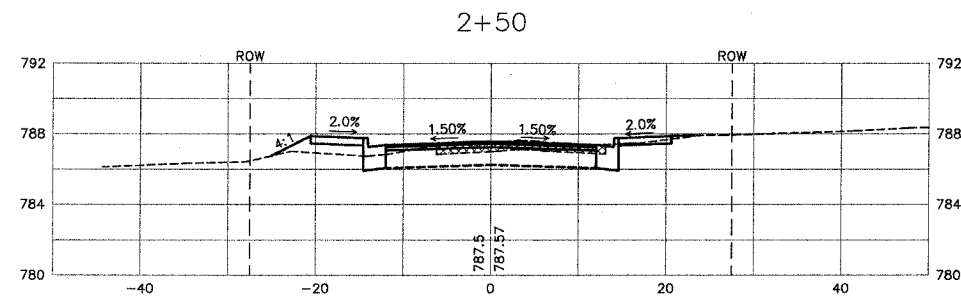
REVISIONS	
NAME	DATE

EROSION CONTROL PLAN

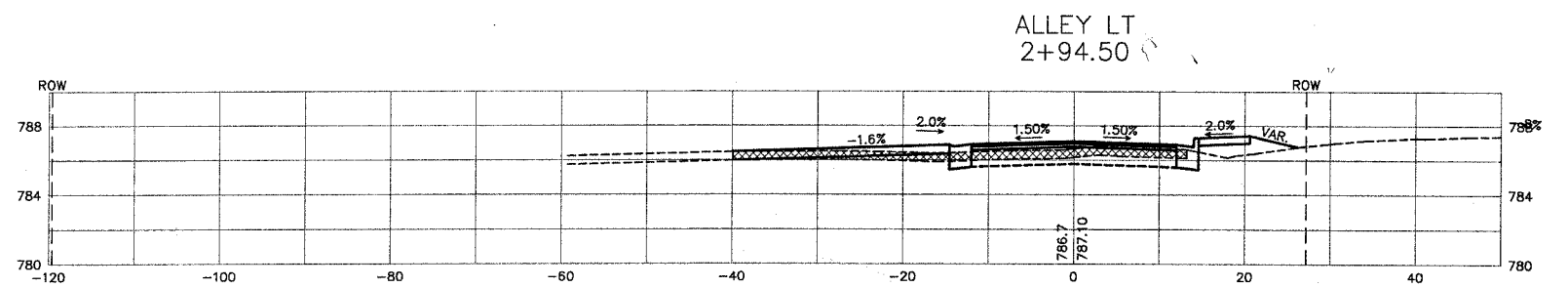
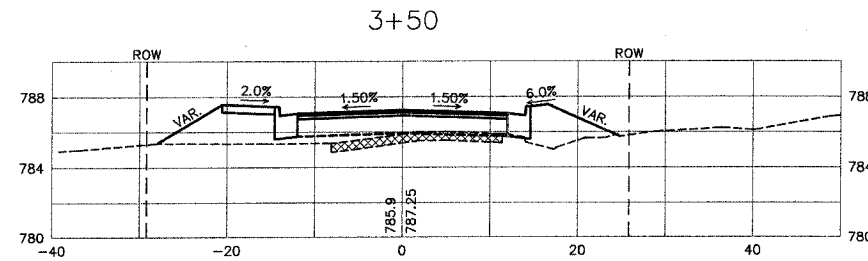
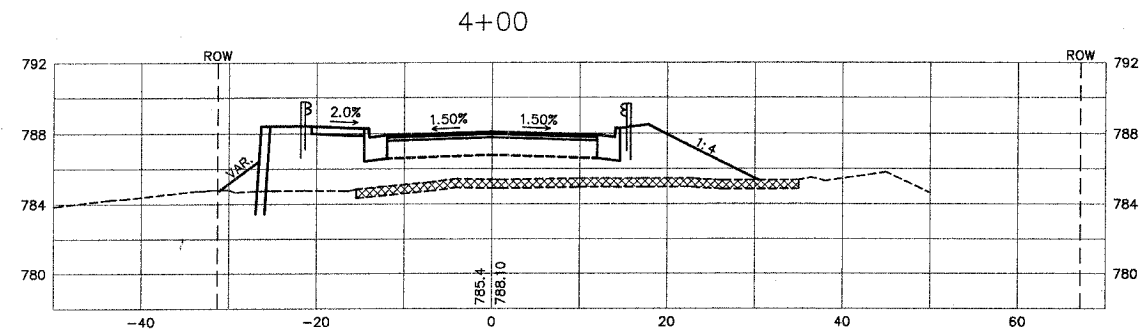
SCALE: 1"=20' DRAWN BY: DAC
 DATE: JANUARY 8, 2006 CHECKED BY: JAK/SAS

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ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
MS 1090	*	BUREAU COUNTY	27	16
* SECTION 01-00008-00-BR		ILLINOIS	FED. AID PROJECT	



1+16.36
BEGIN PROJECT



REVISIONS	
NAME	DATE

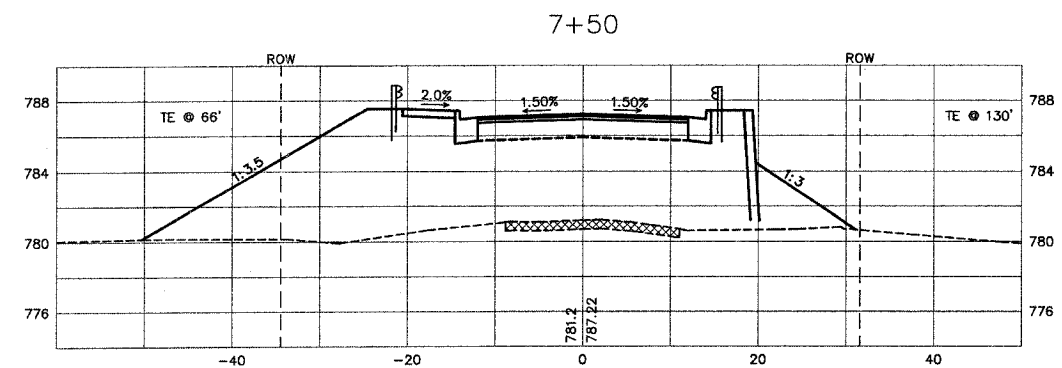
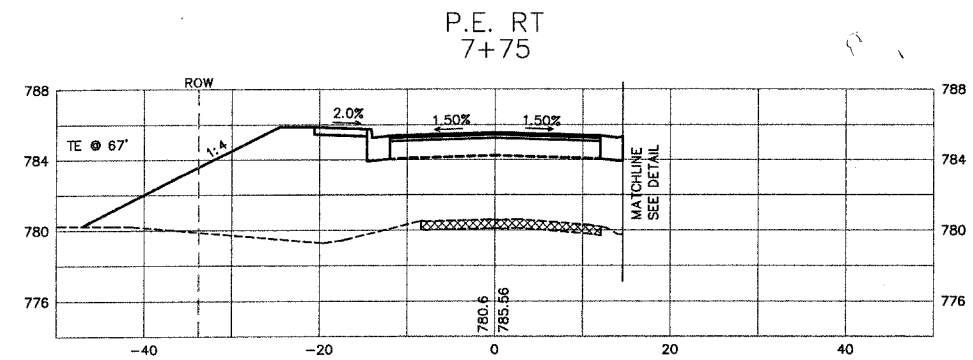
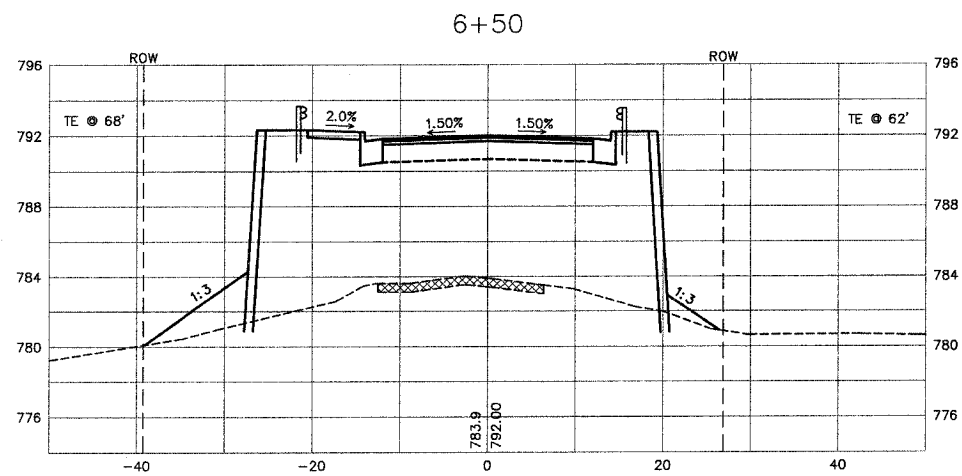
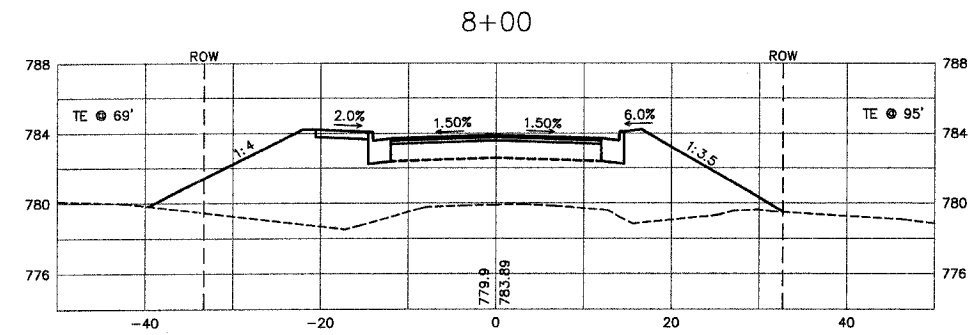
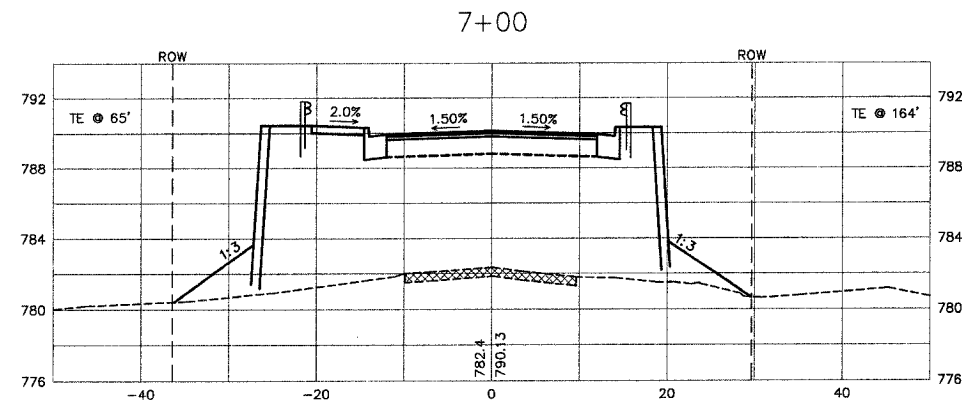
CROSS SECTIONS
STA. 1+16.36 TO STA. 4+00

SCALE: H: 10' V: 5' DRAWN BY: DAC/SAS
DATE: FEBRUARY 9, 2006 CHECKED BY: JAK/SAS

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FILE: W:\DRVGS\BUDA\HIGH ST. BRIDGE\X-SECTIONS-12-05.DWG

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
MS 1090	*	BUREAU COUNTY	27	17
SECTION 01-00008-00-BR		ILLINOIS	FED. AID PROJECT	



STA. 4+49.06 TO STA. 6+21.65
BRIDGE OMISSION

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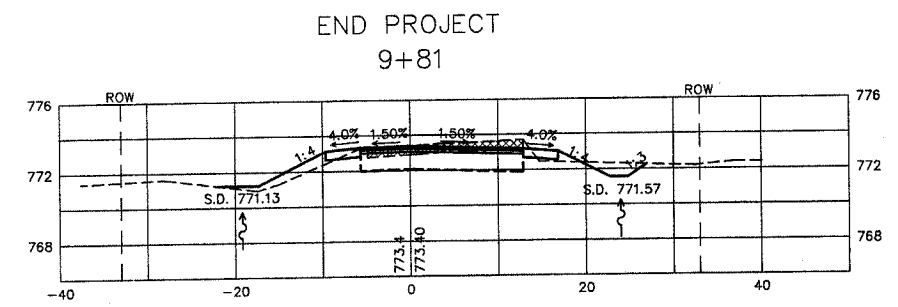
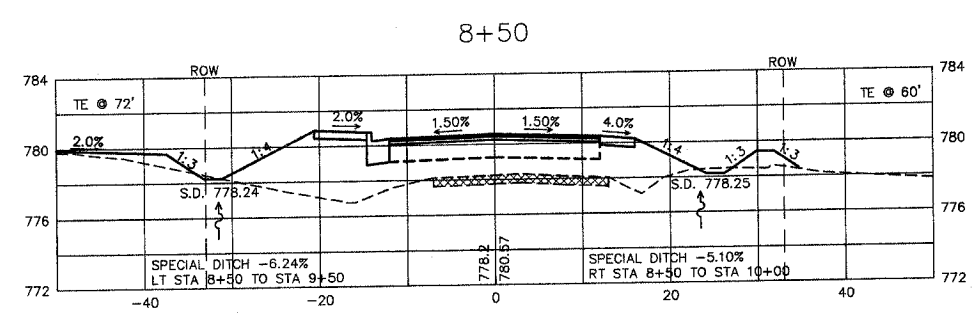
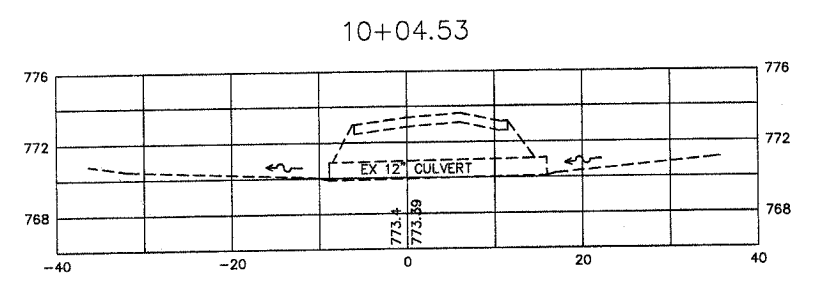
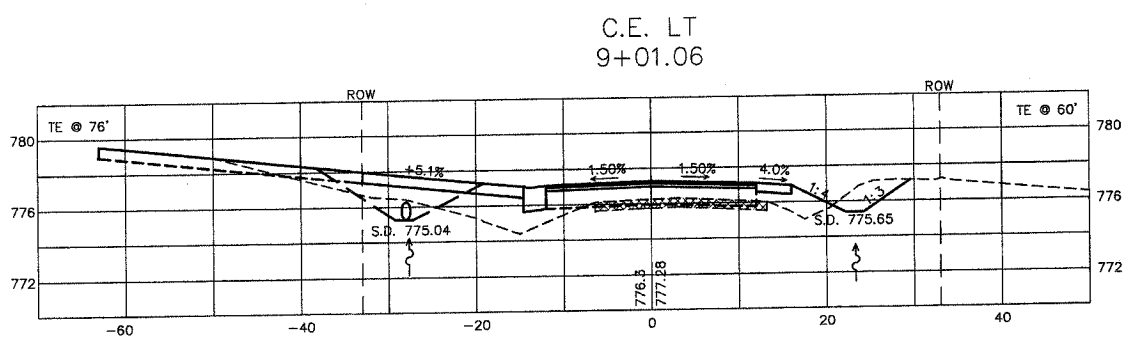
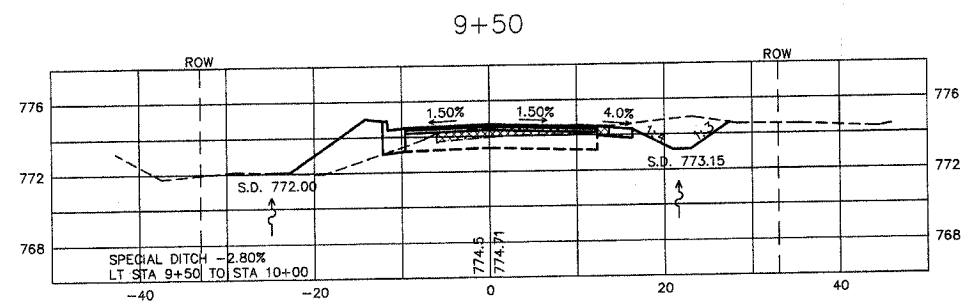
REVISIONS	
NAME	DATE

**CROSS SECTIONS
STA. 6+50 TO STA. 8+00**

SCALE: H: 10' V: 5'
 DRAWN BY: DAC/SAS
 DATE: FEBRUARY 9, 2006 CHECKED BY: JAK/SAS
 FILE: M:\DRWG\BUDA\HIGH ST. BRIDGE\X-SECTIONS-12-05.DWG

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
MS 1090	*	BUREAU COUNTY	27	18
SECTION 01-00008-00-BR		ILLINOIS	FED. AID PROJECT	

Contract 85381



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REVISIONS	
NAME	DATE
DAC	3-7-06

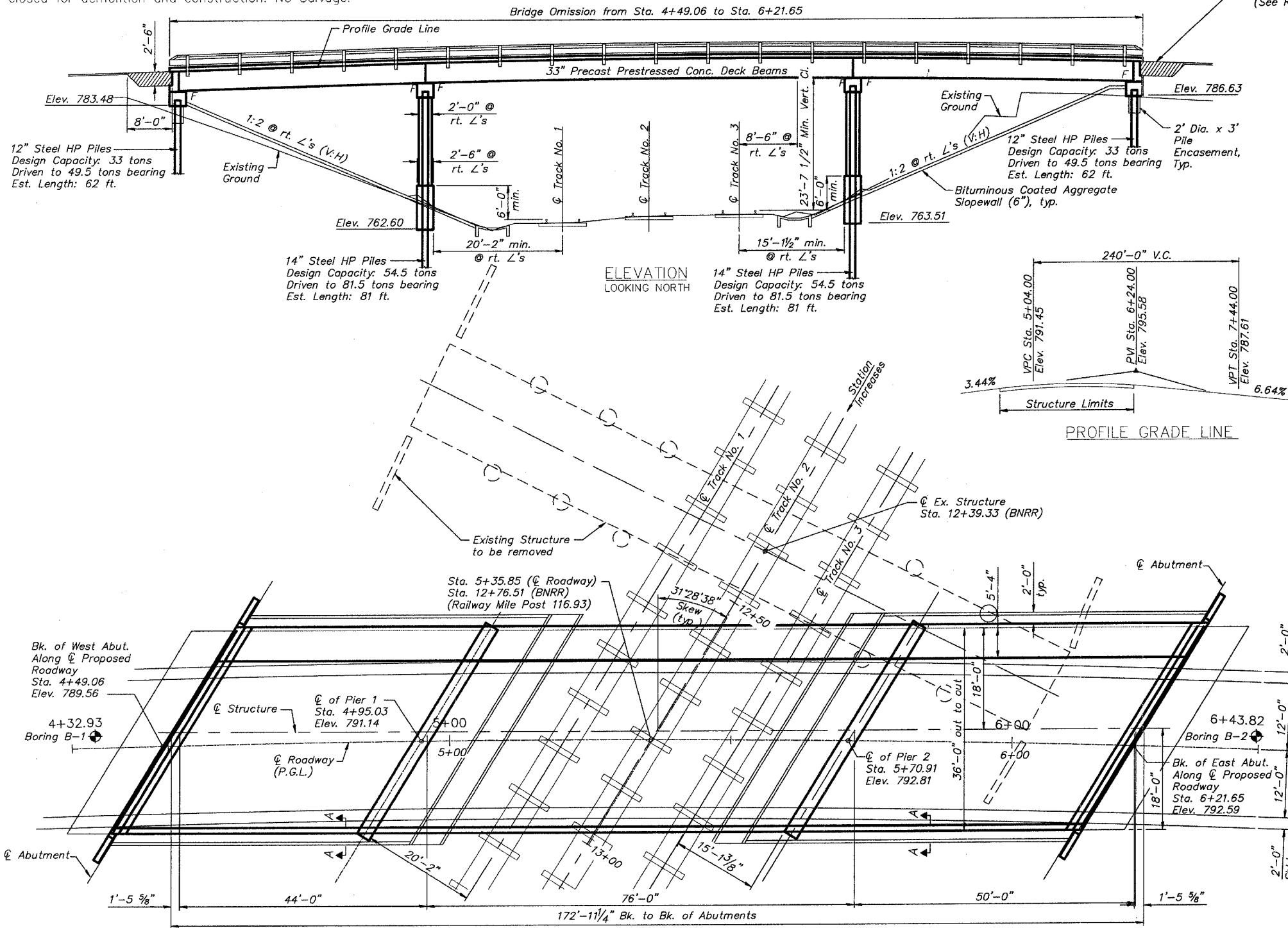
CROSS SECTIONS
STA. 8+50 TO STA. 10+04.53

SCALE: H 10' V 5' DRAWN BY: DAC/SAS
 DATE: FEBRUARY 9, 2006 CHECKED BY: JAK/SAS
 FILE: H:\DRWGS\BUDA\HIGH ST. BRIDGE\X-SECTIONS.DWG

BENCHMARKS: "M" in Mueller on Fire Hydrant, Sta. 4+56, 67' Left, Elev. 785.32
 Head of R.R. Spike in Power Pole, Sta. 3+12, 22' Left, Elev. 787.00

EXISTING STRUCTURE: S.N. 006-9942; Built in 1916; Six span bridge is 124 ft long with five timber approach spans which vary from 12 ft to 16.5 ft long and a 48.5 ft steel Pratt pony truss. Timber deck is 17.5 ft wide. Foundations consist of timber piles and steel frames on concrete footings. Structure will be closed for demolition and construction. No Salvage.

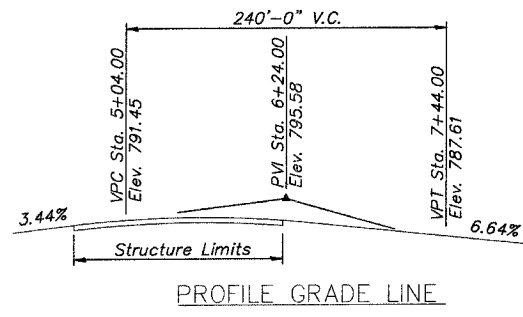
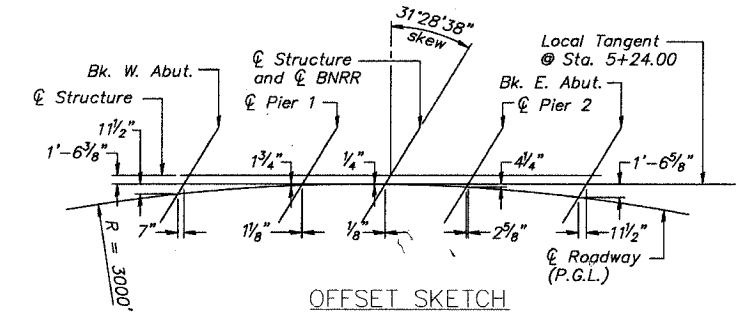
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	SHEET NO. 501
M.S. 1090	*	BUREAU COUNTY	27	19	OF SHEETS 9
* SECTION 01-00008-00-BR ILLINOIS FED. AID PROJECT					



TOP OF RAIL ELEVATIONS
BURLINGTON NORTHERN RAILROAD

Track No. 1		Track No. 2		Track No. 3	
Station	Elev.	Station	Elev.	Station	Elev.
10+07.45	764.73	10+07.41	764.85	10+07.25	766.07
10+84.40	764.52	10+84.25	764.68	10+81.17	765.58
11+38.32	764.29	11+38.33	764.45	11+38.15	765.36
11+79.90	764.15	11+81.64	764.31	11+81.36	765.22
12+31.79	763.95	12+30.42	764.10	12+29.56	765.05
12+50.84	763.86	12+50.41	764.03	12+49.72	764.97
12+93.92	763.82	12+93.91	763.96	12+93.47	764.81
13+38.72	763.72	13+38.68	763.81	13+38.45	764.67
13+83.11	763.59	13+83.11	763.76	13+83.23	764.52
14+34.79	763.49	14+34.75	763.60	14+34.75	764.38
14+84.57	763.36	14+84.33	763.45	14+84.19	764.25
15+35.38	763.15	15+35.38	763.29	15+35.26	764.14
				15+35.42	764.36
				15+35.30	764.57
				15+35.41	764.78

(Railway Mile Post 116.92 = Sta. 12+39.33)



HIGHWAY CLASSIFICATION
 High Street
 ADT: 450 (2026)
 Functional Class: Local Road
 Design Speed: 30 mph
 Posted Speed: 30 mph

CURVE DATA
 $\Delta = 11^{\circ}18'50.44''$
 $D = 1^{\circ}54'35.50''$
 $T = 297.17'$
 $L = 592.40'$
 $E = 14.68'$
 $R = 3000'$
 $S.E. = 0.00\%$
 P.C. = Sta. 2+50.00
 P.T. = Sta. 8+42.40
 P.I. = Sta. 5+46.20

DESIGN SPECIFICATIONS
 2002 AASHTO Standard Specifications
 LOADING HS20-44
 Allow 50# / sq. ft. for future wearing surface

DESIGN STRESSES
 FIELD UNITS
 $f'c = 3500$ psi
 $f_y = 60,000$ psi (reinforcement)
 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)

SEISMIC DATA
 Seismic Performance Category (SPC) = A
 Bedrock Acceleration Coefficient (A) = 0.039
 Site Coefficient (S) = 1



DESIGNED BY: JTT
 CHECKED BY:
 DRAWN BY: CJP
 CHECKED BY: JTT

HIGH STREET OVER BNSF RAILWAY
 BUILT 2006 BY
 BUREAU COUNTY
 SECTION 01-00008-00-BR
 STATION 5+36.1
 STR. NO. 006-6600 LOADING HS 20-44
 LETTERING FOR NAME PLATE
 SEE STD. 515001

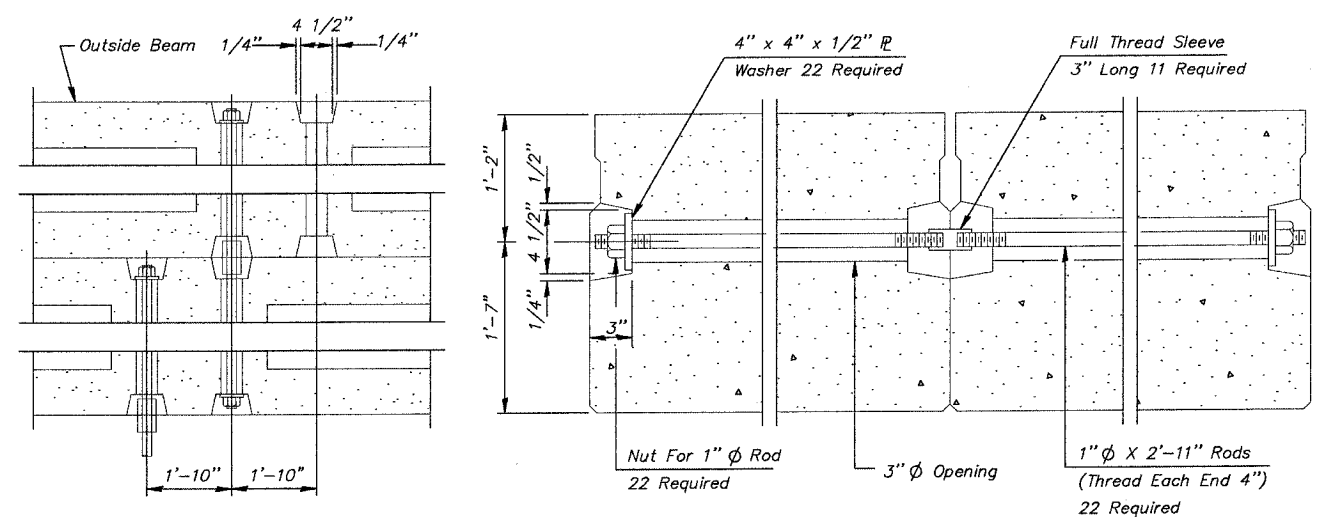
CALL J.U.L.I.E. BEFORE YOU DIG
 1-800-892-0123
 TOLL FREE

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".

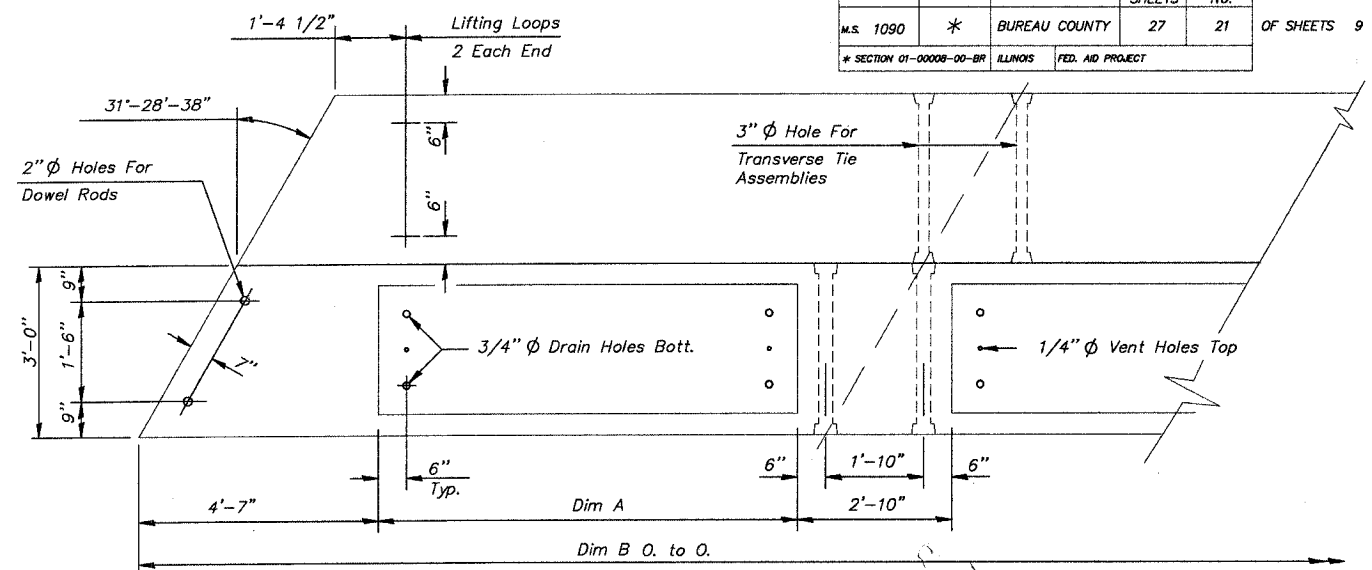
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REVISIONS		GENERAL PLAN & ELEVATION HIGH STREET OVER BNSF RAILWAY BUREAU COUNTY SECTION 01-00008-00-BR STATION 5+36.11 STRUCTURE NO. 006-6600
NAME	DATE	

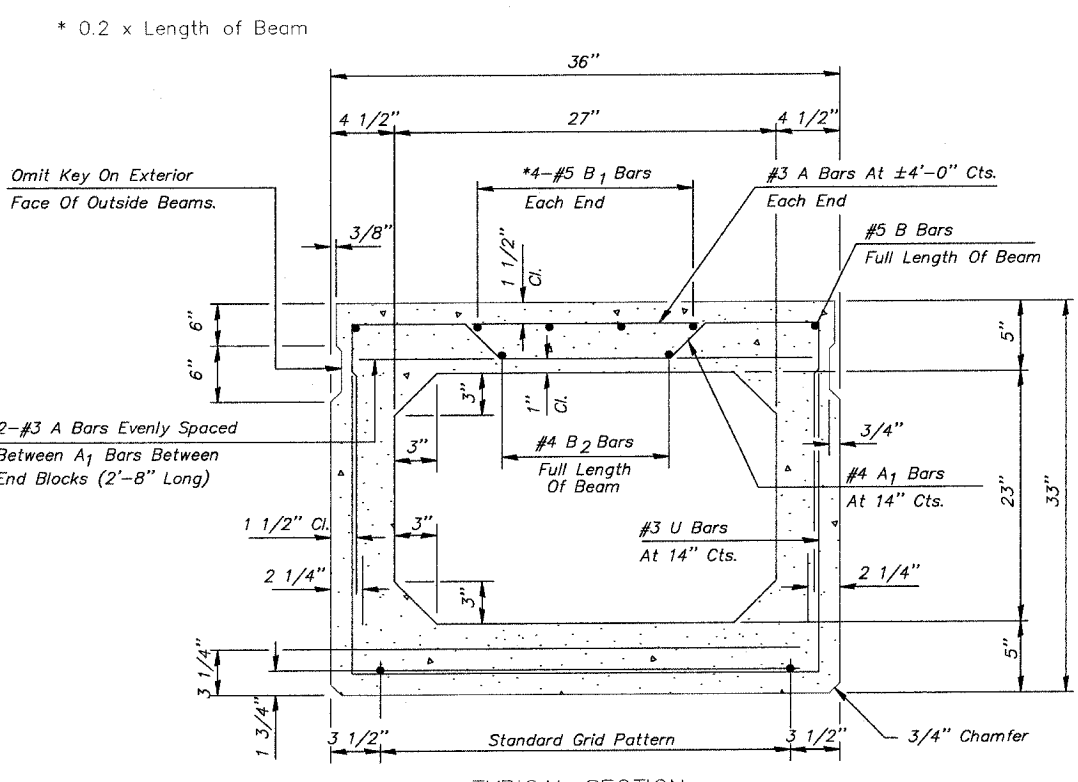
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	SHEET NO. 303
M.S. 1090	*	BUREAU COUNTY	27	21	OF SHEETS 9
* SECTION 01-0008-00-BR		ILLINOIS	FED. AID PROJECT		



TYPICAL TRANSVERSE TIE ASSEMBLY



PLAN



TYPICAL SECTION

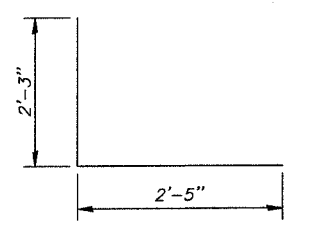
DIMENSION TABLE

	SPAN 1	SPAN 2	SPAN 3
DIM A	16'-9 9/16"	32'-10 7/16"	19'-9 9/16"
DIM B	43'-9 1/8"	75'-10 7/8"	49'-9 1/8"
DIM C	9"	12"	10"
D	32	59	37

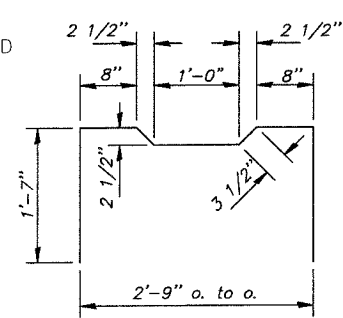
NOTE: SIDEWALK AND CURB CONNECTING BARS D₁ AND D₂ RESPECTIVELY SHALL BE CAST INTO THE APPROPRIATE PPC BEAMS. THE COST FOR D₁ AND D₂ BARS SHALL BE INCLUDED IN THE UNIT PRICE FOR PPC BEAMS.

NOTES

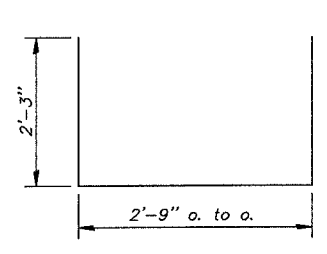
Prestressing steel shall be uncoated high strength, low relaxation 7-wire strand, Grade 270. The nominal diameter shall be 1/2" and the nominal cross-sectional area shall be 0.153 sq. in. Lifting loops shall be 3-1/2" ϕ -270 ksi strands, as shown. The 1" ϕ rods in the transverse tie assembly shall be 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. 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 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. Corrosion Inhibitor, as covered in the Special Provisions, shall be used in the concrete for precast prestressed concrete deck beams. Required Release Strength, f'ci, shall be 4,000 p.s.i.



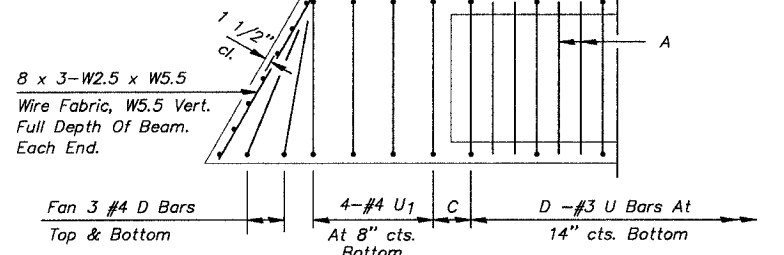
BAR D



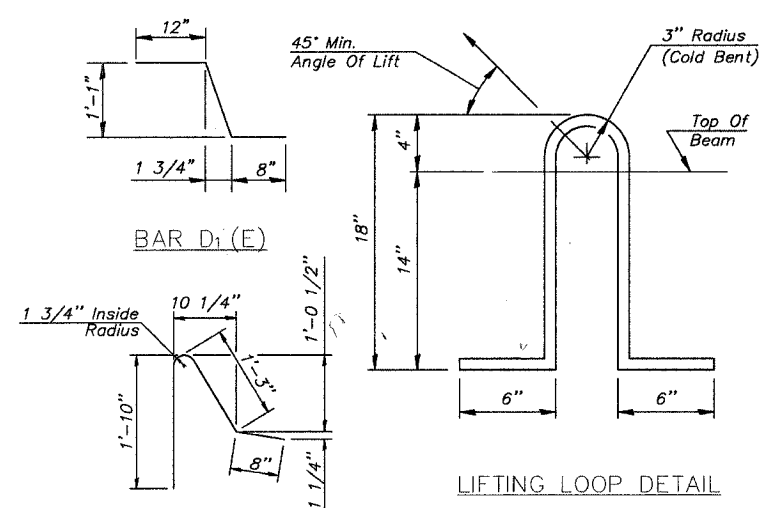
BAR A1



BARS U & U1



END PLAN



LIFTING LOOP DETAIL

DESIGNED BY:	JTT
CHECKED BY:	
DRAWN BY:	CJP
CHECKED BY:	JTT

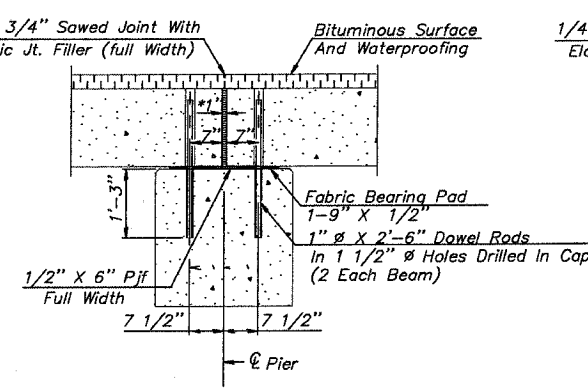
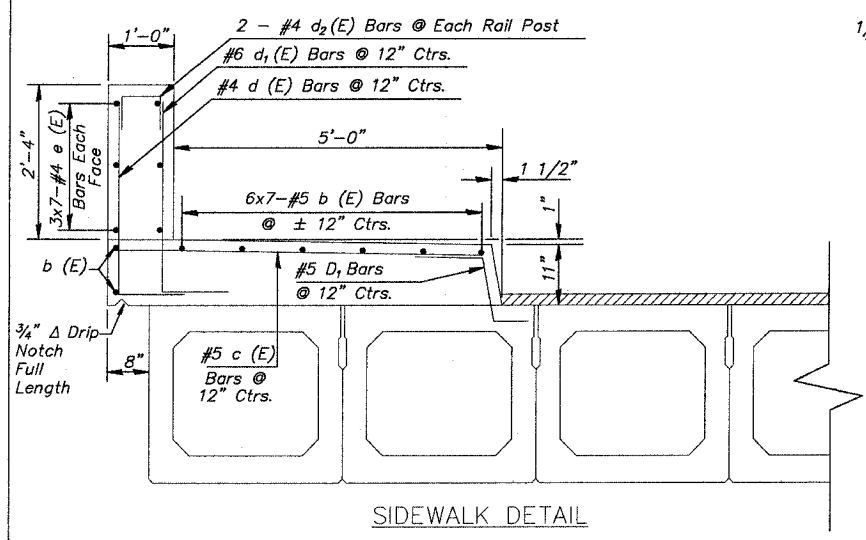
NOTE: Place Strands Symmetrically About ϕ Of Beam.
 ENDSPANS: 8 - 1/2" ϕ Low Relaxation Strands Each Strand Stressed To 28,900 lbs. 8 - Strands 1 3/4" Up
 CENTERSPAN: 18 - 1/2" ϕ Low Relaxation Strands Each Strand Stressed To 28,900 lbs. 10 - Strands 1 3/4" Up 6 - Strands 3 1/4" Up 2 - Strands 15" Up

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REVISIONS		PRESTRESSED DECK BEAM DETAILS
NAME	DATE	
		HIGH STREET OVER BNSF RAILWAY BUREAU COUNTY SECTION 01-0008-00-BR STATION 5+36.11 STRUCTURE NO. 006-6600

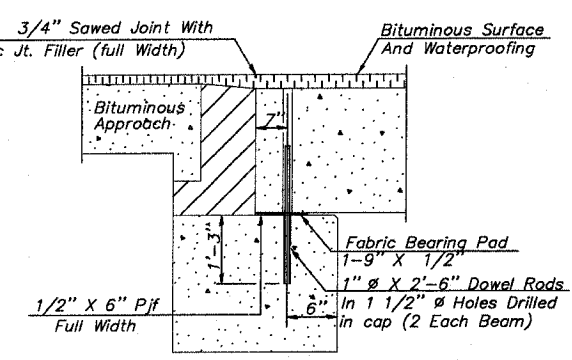
Contract 85381

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	SHEET NO. 504
M.S. 1090	*	BUREAU COUNTY	27	22	OF SHEETS 9
* SECTION 01-00008-00-BR		ILLINOIS	FED. AID PROJECT		

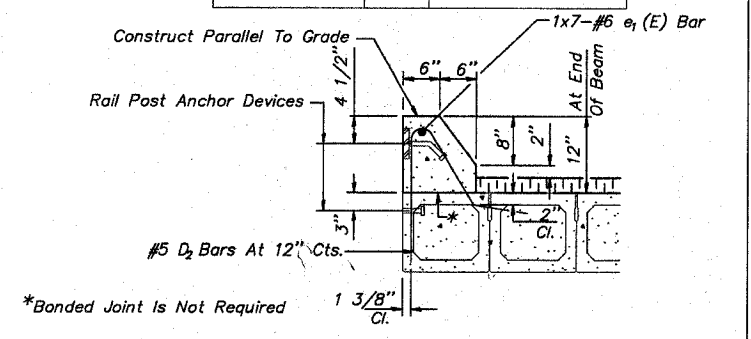


SECTION THRU FIXED PIER

* 1" jt. Shall be filled with non-shrink grout.
 1" dimension may vary to accommodate tolerance in beam lengths.

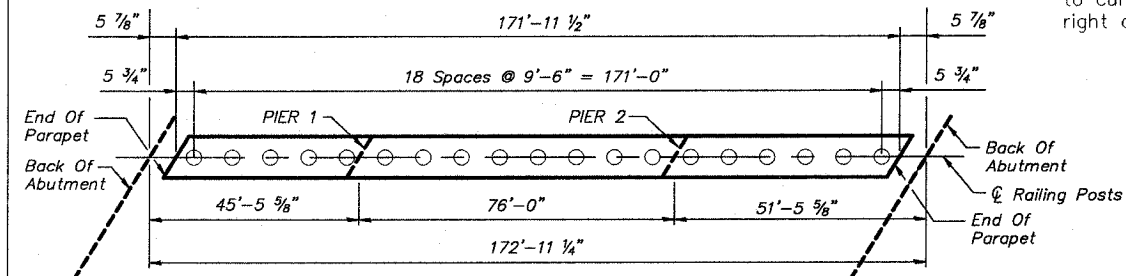


SECTION THRU ABUTMENT

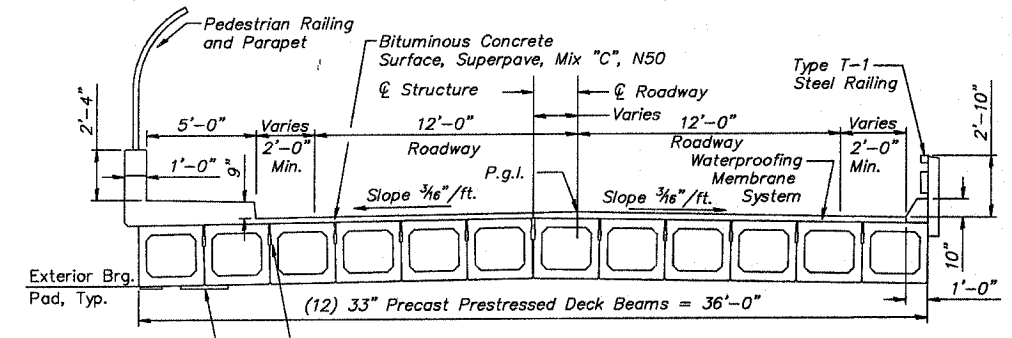


SECTION THRU CURB
 Curbs Shall Be Poured In The Field.

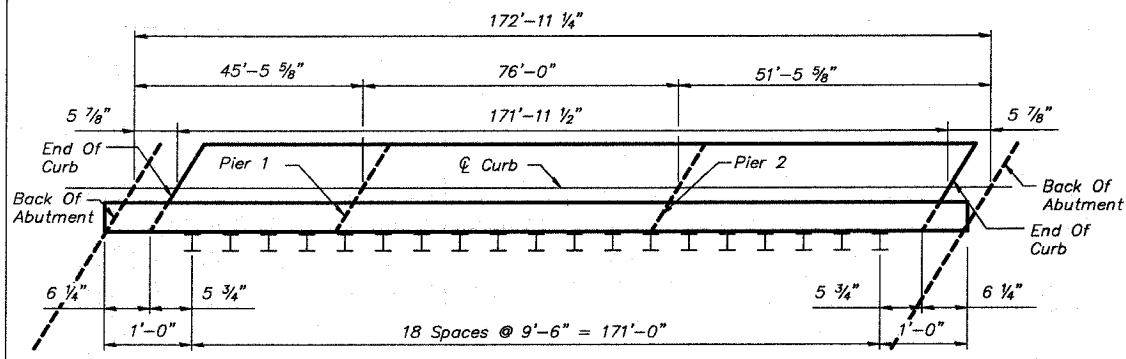
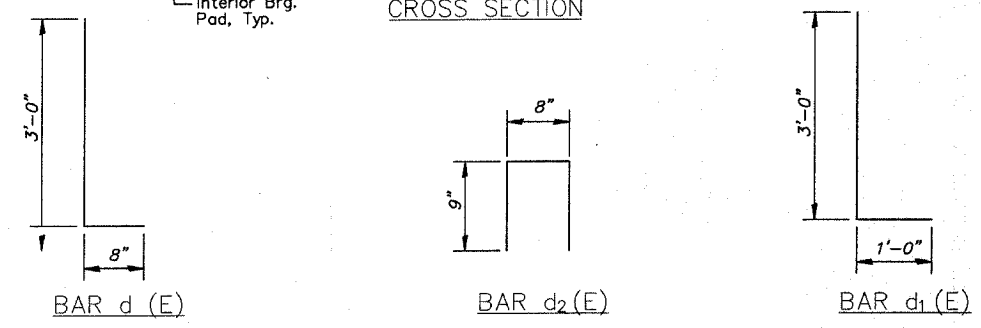
Note: After beams have been erected, holes shall be drilled into substructure and anchor dowels placed. Dowel holes shall be filled with non-shrink grout to top of beam and allowed to cure min. 24 hrs. prior to grouting the shear keys. All horizontal dimensions are at right angles to beam ends. Hatched area to be poured after beams are in place.



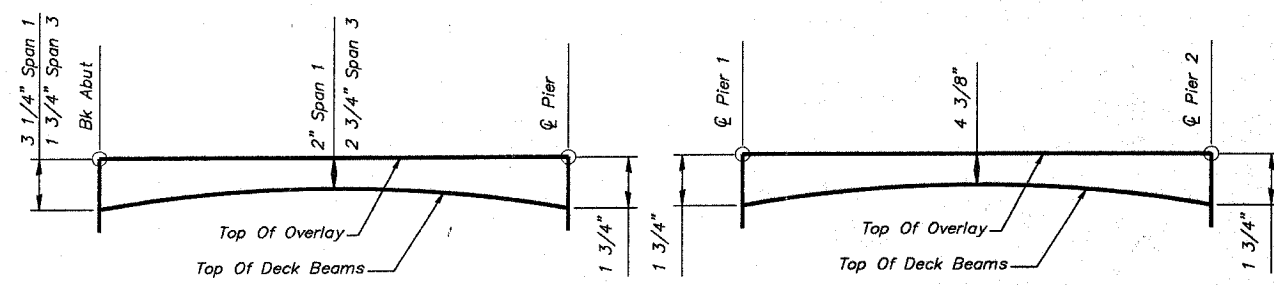
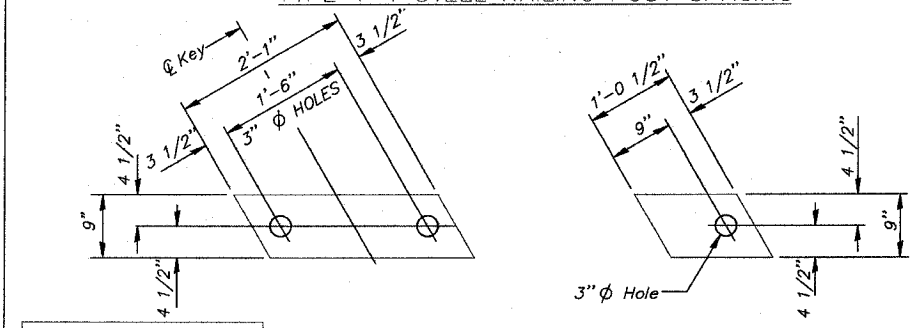
PEDESTRIAN RAILING POST SPACING
 Provide full height joint in parapet at piers
 Insert 1/8" aluminum sheet.



CROSS SECTION



TYPE T-1 STEEL RAILING POST SPACING



OVERLAY THICKNESS DETAILS

* THICKNESS OF BIT. OVERLAY AND WATERPROOFING MEMBRANE SYSTEM

BILL OF MATERIAL

BAR NO.	SIZE	LENGTH	SHAPE
b (E) 56	#5	26'-5"	—
c (E) 173	#5	5'-6"	—
d (E) 173	#4	3'-8"	L
d ₁ (E) 173	#6	4'-0"	L
d ₂ (E) 38	#4	2'-2"	Π
e (E) 42	#4	26'-0"	—
e ₁ (E) 7	#6	26'-9"	—
P.P. Concrete Deck Beams 33" Depth			Sq. Ft. 6,100
Concrete Structures			Cu. Yd. 55.6
Reinforcement Bars, Epoxy Coated			Pound 5,064

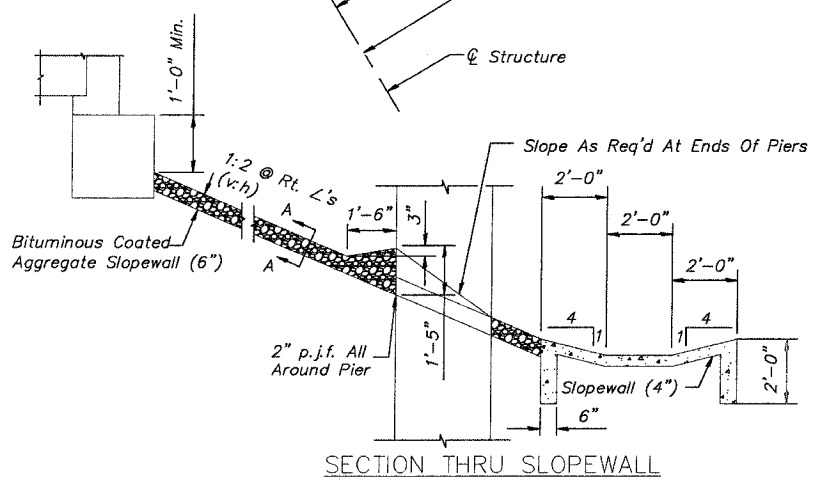
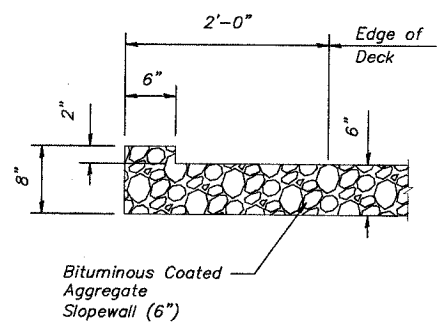
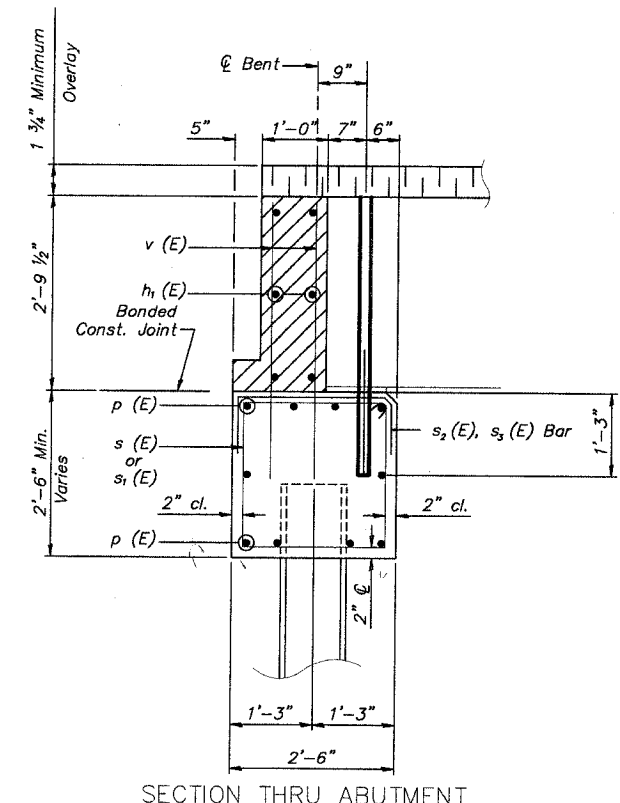
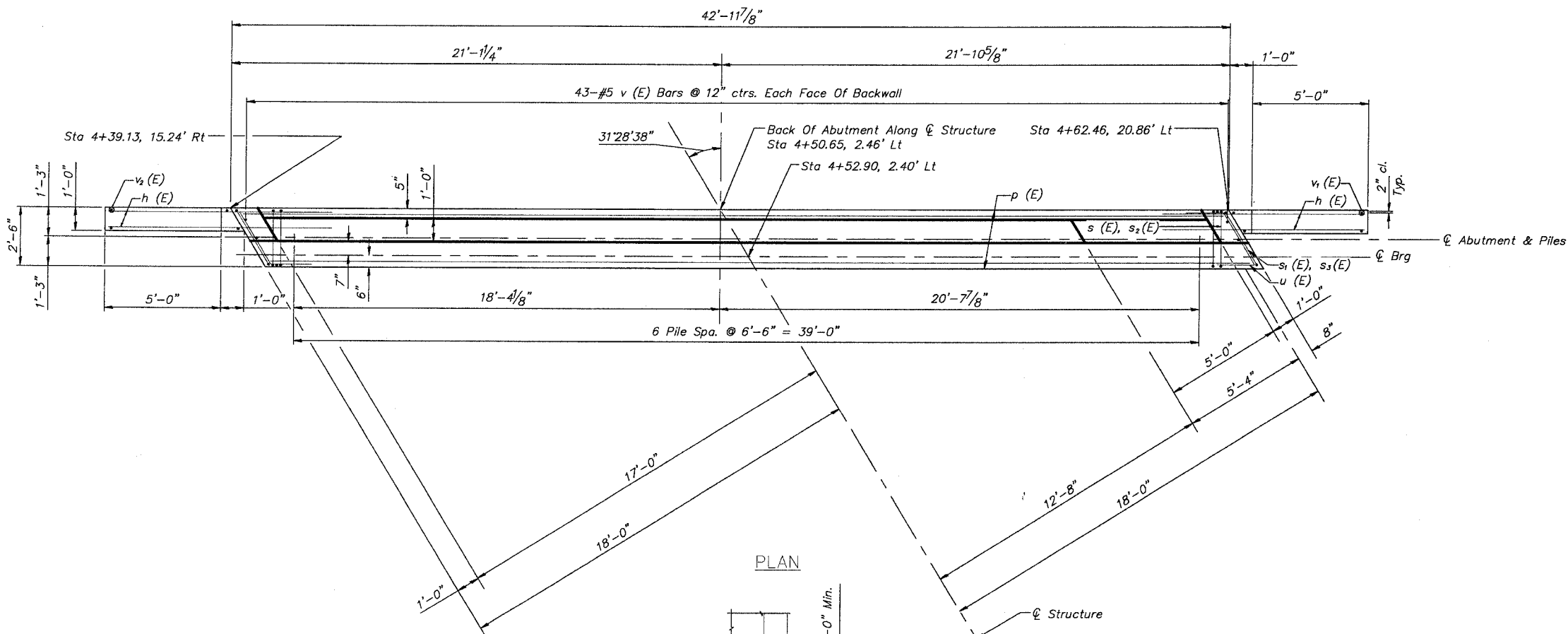
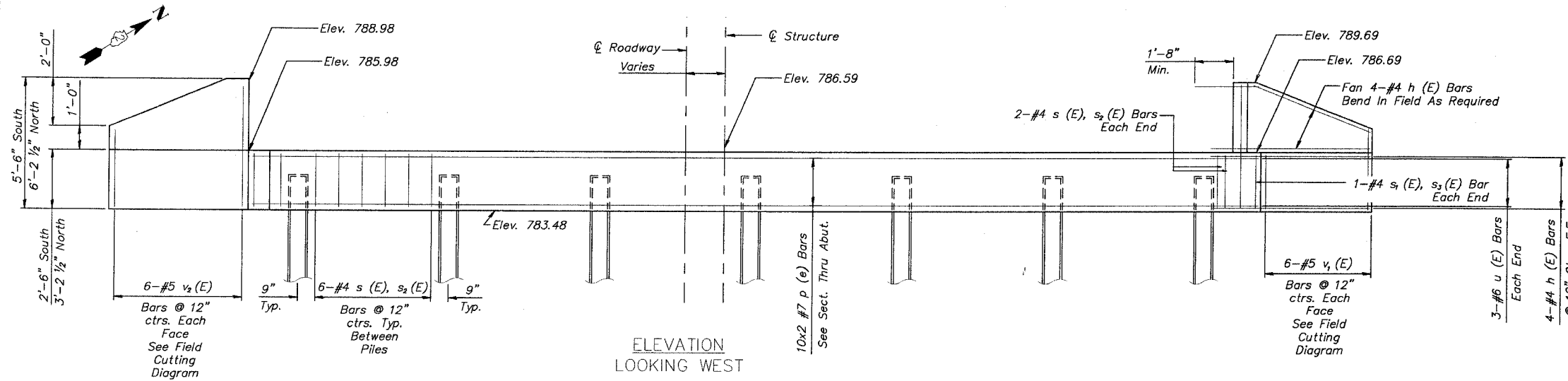
DESIGNED BY: JTT
 CHECKED BY:
 DRAWN BY: CJP
 CHECKED BY: JTT

McCLURE ENGINEERING ASSOCIATES, INC.
 1138 COLUMBUS STREET OTTAWA, ILLINOIS 61350
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REVISIONS	
NAME	DATE

SUPERSTRUCTURE DETAILS
 HIGH STREET OVER
 BNSF RAILWAY
 BUREAU COUNTY
 SECTION 01-00008-00-BR
 STATION 5+36.11
 STRUCTURE NO. 006-6600

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	SHEET NO. S05
M.S. 1090	*	BUREAU COUNTY	27	23	OF SHEETS 9
* SECTION 01-00008-00-BR ILLINOIS FED. AID PROJECT					

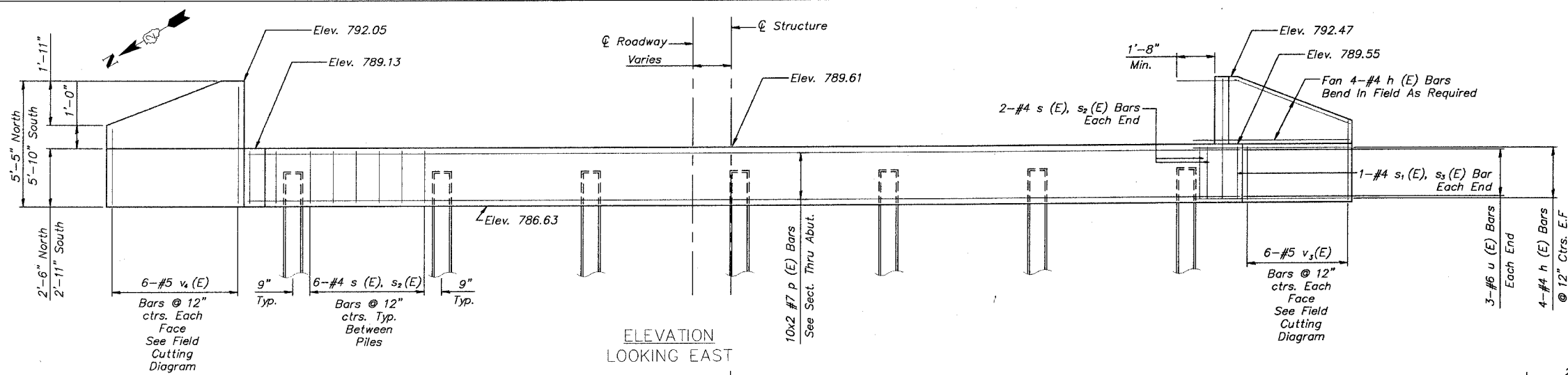


DESIGNED BY:	JTT
CHECKED BY:	
DRAWN BY:	CJP
CHECKED BY:	JTT

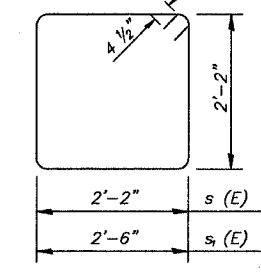
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REVISIONS		SUBSTRUCTURE - WEST ABUTMENT & DETAILS
NAME	DATE	
		HIGH STREET OVER BNSF RAILWAY
		BUREAU COUNTY
		SECTION 01-00008-00-BR
		STATION 5+36.11
		STRUCTURE NO. 006-6600

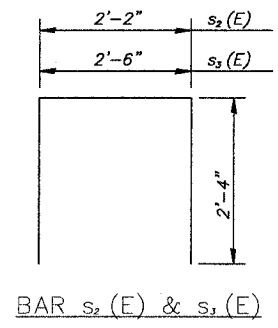
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	SHEET NO. 506
M.S. 1090	*	BUREAU COUNTY	27	24	OF SHEETS 9
* SECTION 01-00008-00-BR		ILLINOIS	FED. AID PROJECT		



ELEVATION
LOOKING EAST

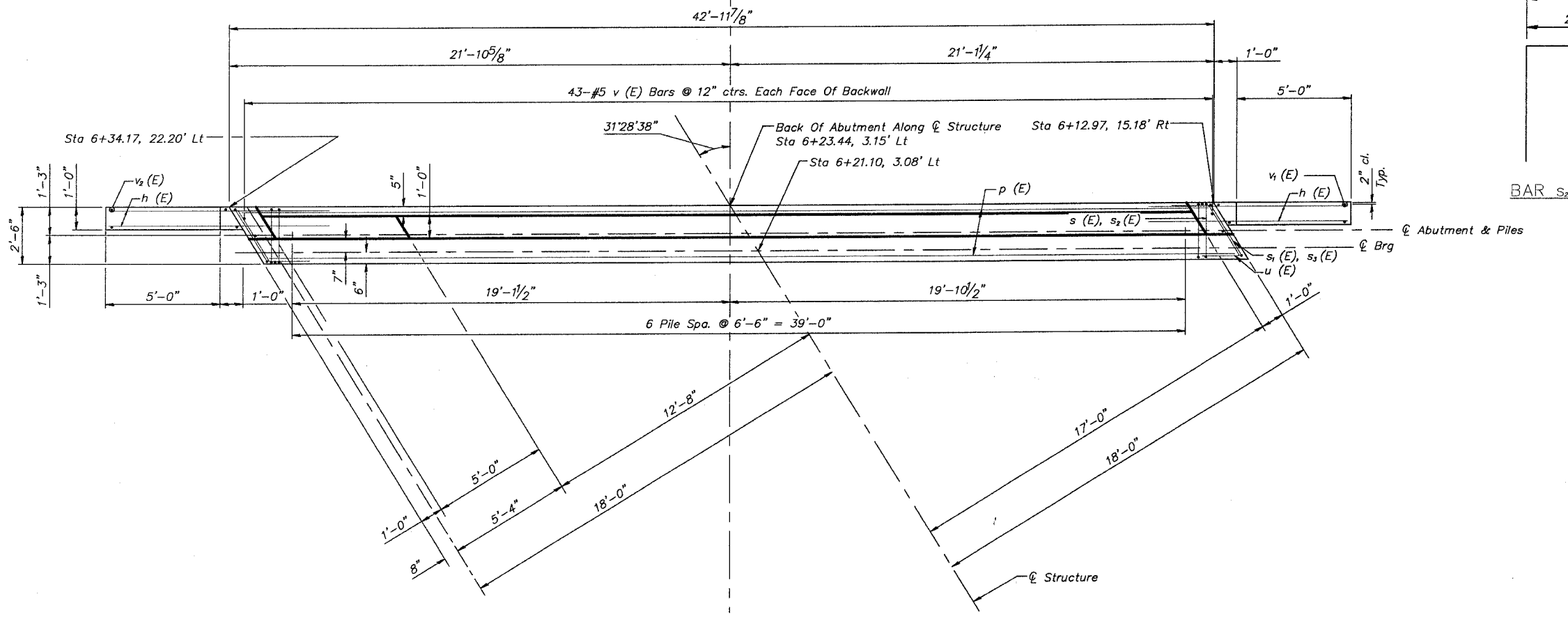


BAR s(E) & s1(E)

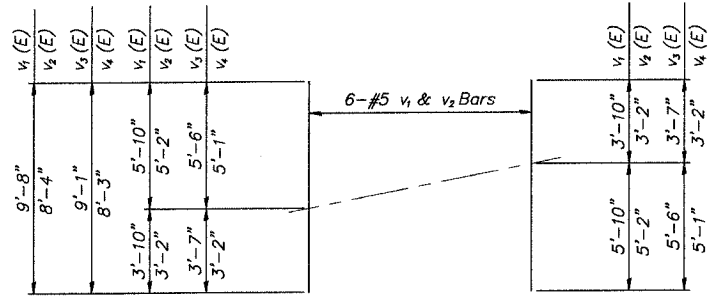


BAR s2(E) & s3(E)

BAR u(E)



PLAN



FIELD CUTTING DIAGRAM

TOTAL BILL OF MATERIAL 2 ABUTMENTS

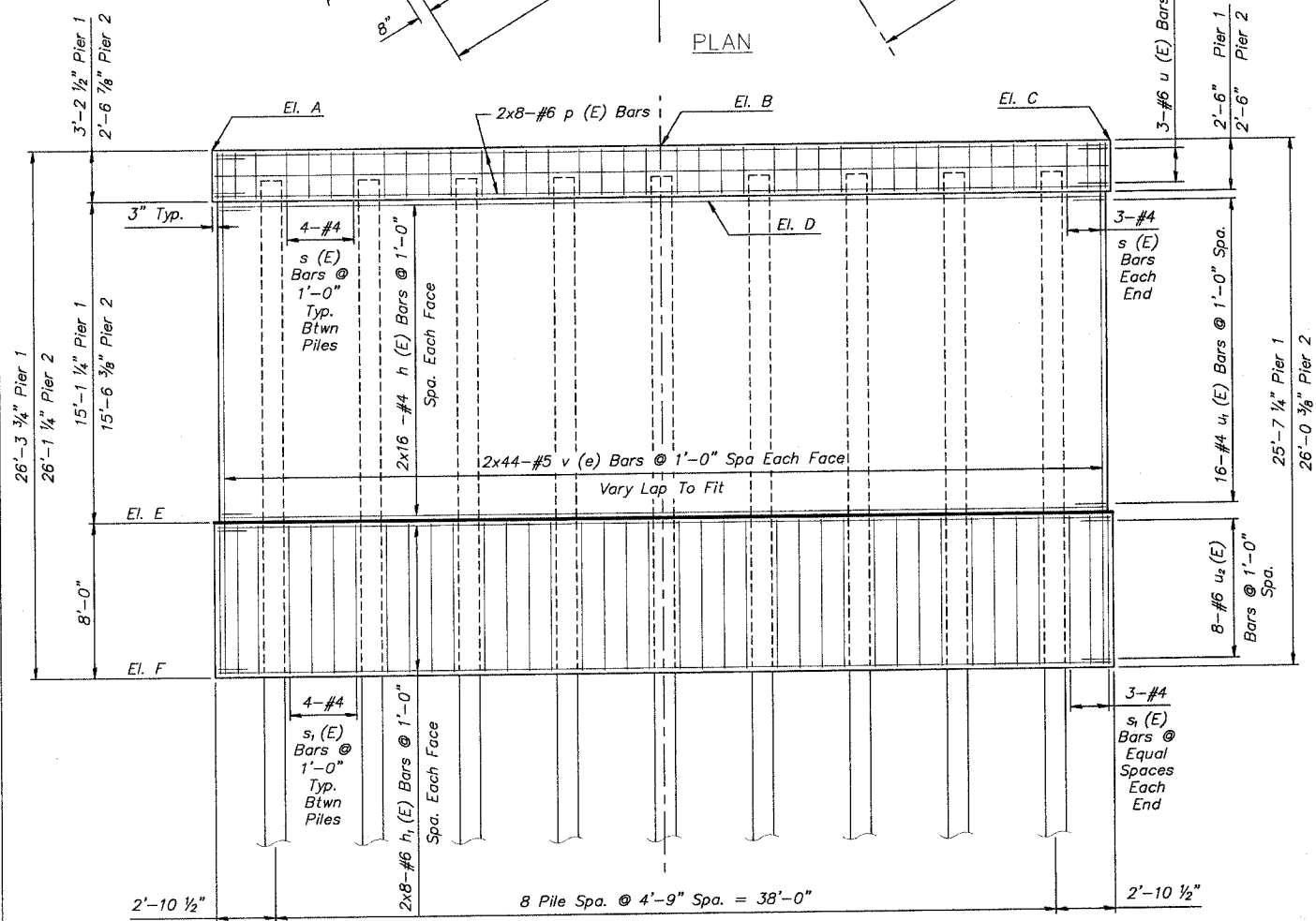
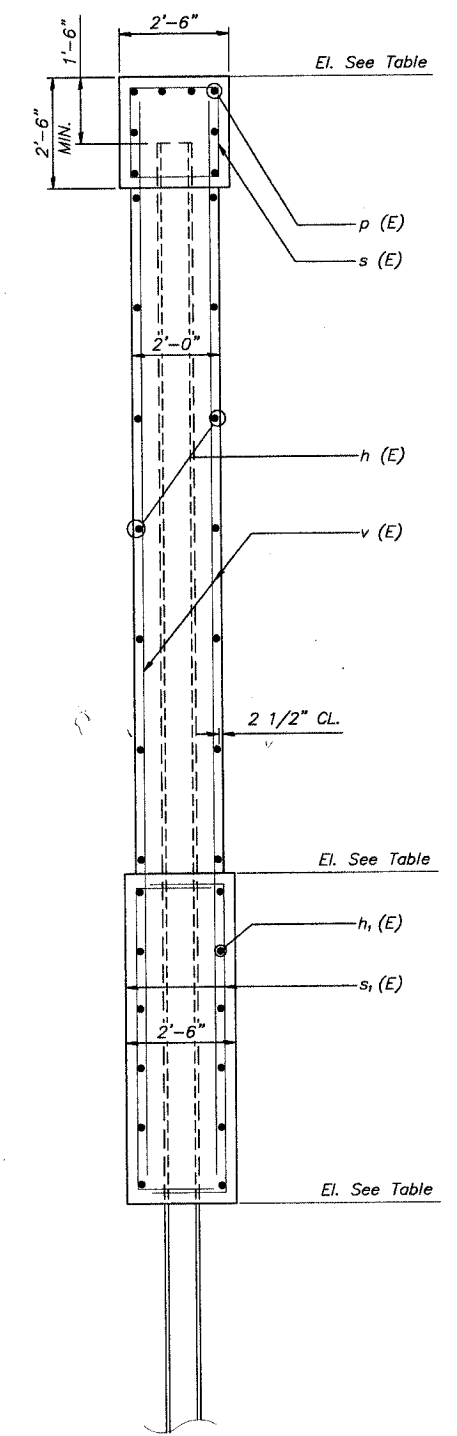
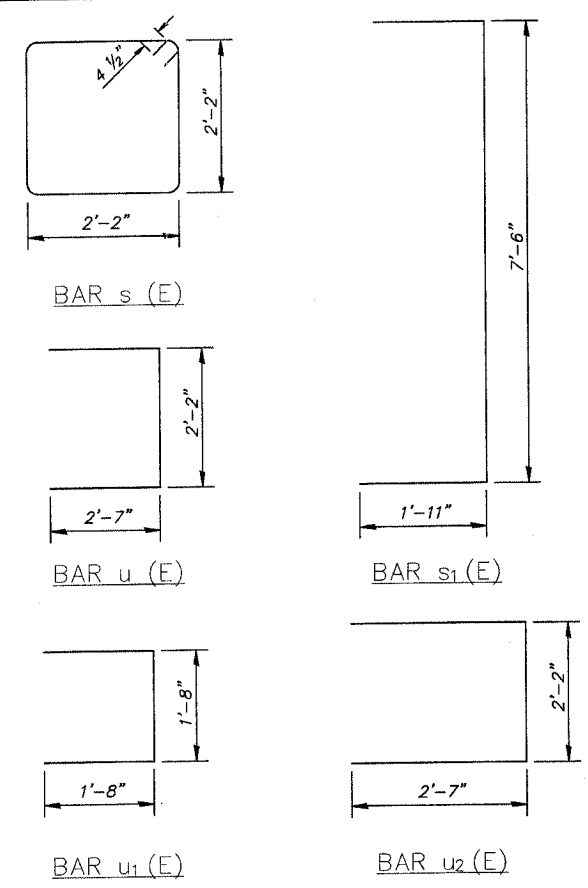
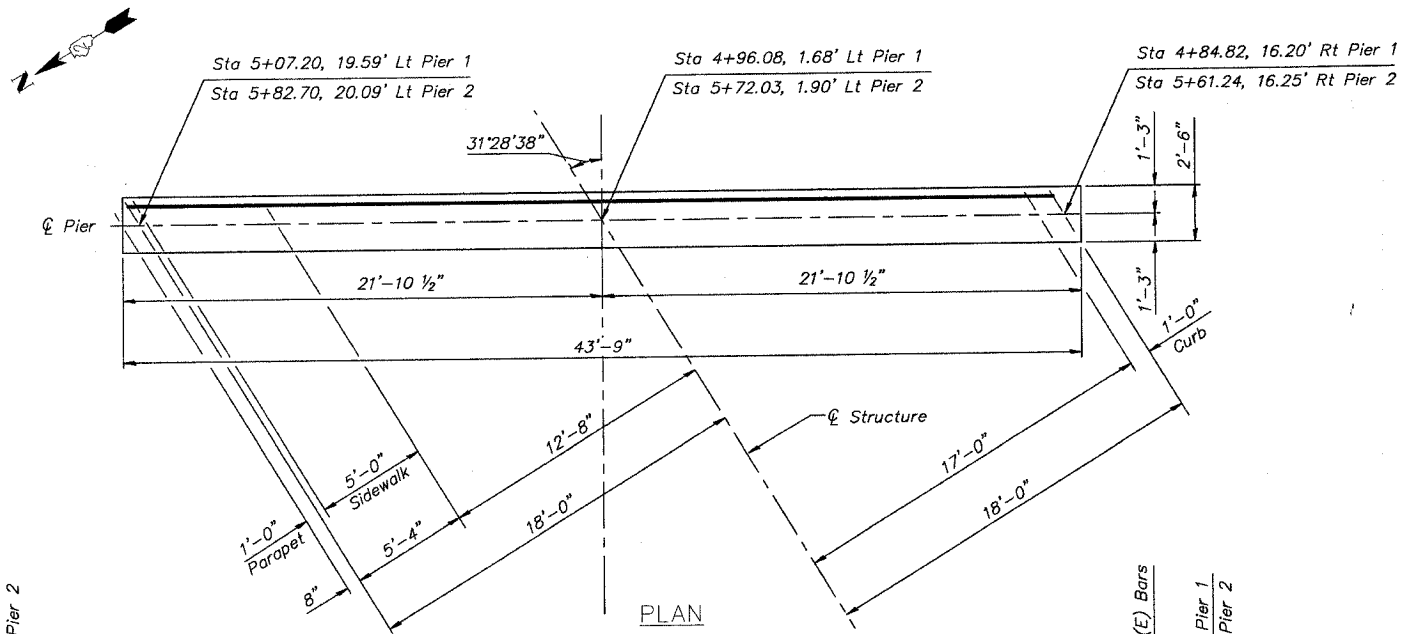
BAR	NO.	SIZE	LENGTH	SHAPE
h (E)	64	#4	8'-0"	—
h1 (E)	24	#5	22'-5"	—
p (E)	40	#7	23'-0"	—
s (E)	80	#4	9'-5"	□
s1 (E)	4	#4	10'-1"	□
s2 (E)	80	#4	6'-10"	□
s3 (E)	4	#4	7'-2"	□
u1 (E)	12	#6	7'-8"	▽
v (E)	172	#5	4'-9"	—
v1 (E)	6	#5	9'-8"	—
v2 (E)	6	#5	8'-4"	—
v3 (E)	6	#5	9'-1"	—
v4 (E)	6	#5	8'-3"	—
Concrete Structures			Cu. Yd.	36.6
Reinforcement Bars, Epoxy Coated			Pound	4,910

DESIGNED BY:	JTT
CHECKED BY:	
DRAWN BY:	CJP
CHECKED BY:	JTT

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REVISIONS		SUBSTRUCTURE-EAST ABUTMENT & BILL OF MATERIALS HIGH STREET OVER BNSF RAILWAY BUREAU COUNTY SECTION 01-00008-00-BR STATION 5+36.11 STRUCTURE NO. 006-6600
NAME	DATE	

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	SHEET NO. S07
M.S. 1090	*	BUREAU COUNTY	27	25	OF SHEETS 9
* SECTION 01-00008-00-BR		ILLINOIS	FED. AID PROJECT		



TOTAL BILL OF MATERIAL 2 PIERS

BAR	NO.	SIZE	LENGTH	SHAPE
h (E)	128	#4	22'-4"	—
h ₁ (E)	64	#6	23'-0"	—
p (E)	32	#6	23'-0"	—
s (E)	76	#4	9'-5"	□
s ₁ (E)	152	#4	11'-4"	□
u (E)	12	#6	7'-4"	□
u ₁ (E)	64	#4	5'-0"	□
u ₂ (E)	32	#6	7'-4"	□
v (E)	352	#5	14'-3"	—
Structure Excavation			Cu. Yd.	92
Concrete Structures			Cu. Yd.	186
Reinforcement Bars, Epoxy Coated			Pound	12,785
Furnishing Steel Pile HP 14 x 73			Foot	1458
Driving Steel Piles HP 14x73			Foot	1044
Test Pile Steel HP 14x73			Each	2

ELEVATION LOOKING EAST PIER ELEVATION TABLE

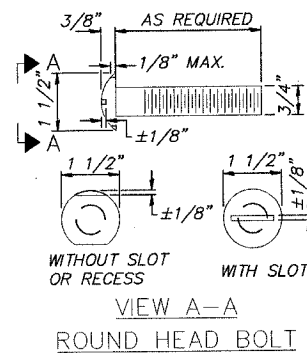
PIER	ELEVATION					
	A	B	C	D	E	F
PIER 1	788.31	788.21	787.60	785.10	770.00	762.00
PIER 2	789.61	789.85	789.54	787.04	771.51	763.51

DESIGNED BY: JTT
 CHECKED BY:
 DRAWN BY: CJP
 CHECKED BY: JTT

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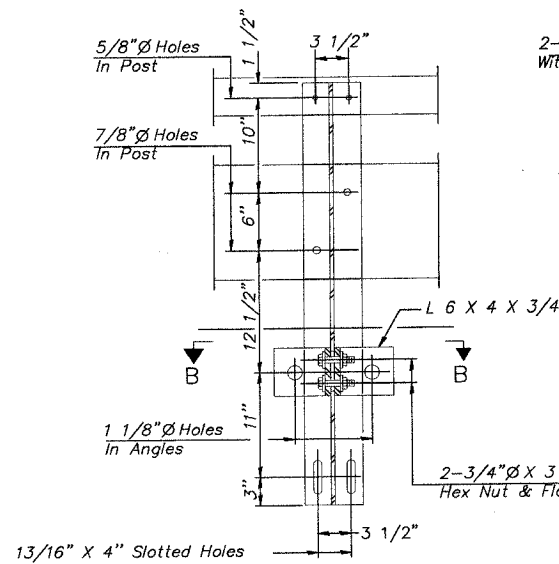
REVISIONS		SUBSTRUCTURE - PIERS HIGH STREET OVER BNSF RAILWAY BUREAU COUNTY SECTION 01-00008-00-BR STATION 5+36.11 STRUCTURE NO. 006-6600
NAME	DATE	

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	SHEET NO. SOB
M.S. 1090	*	BUREAU COUNTY	27	26	OF SHEETS 9
* SECTION 01-00008-00-BR ILLINOIS FED. AID PROJECT					

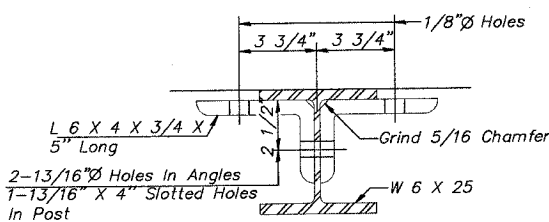


2-1/2"Ø X 6" Round Head Bolts
(with Slot Or Approved Recess In Head.)
With Locknut & Flat Washer
5/8"Ø Holes In Hollow Structural
Section May Be Drilled In The Field.

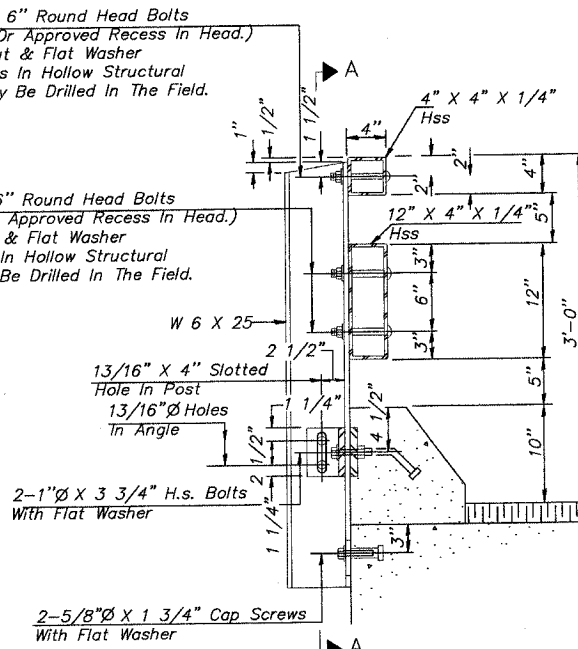
2-3/4"Ø X 6" Round Head Bolts
(with Slot Or Approved Recess In Head.)
With Locknut & Flat Washer
7/8"Ø Holes In Hollow Structural
Section May Be Drilled In The Field.



SECTION A-A



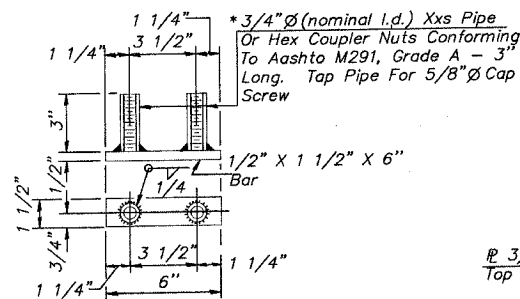
SECTION B-B



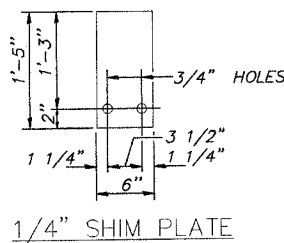
SECTION AT RAIL POST

1 1/8"Ø Holes For 1"x4"Ø Round Head Bolts
Provide 2 Flat Washers & Locknuts For
Guard Rail Connection Shown On Std. 631026.

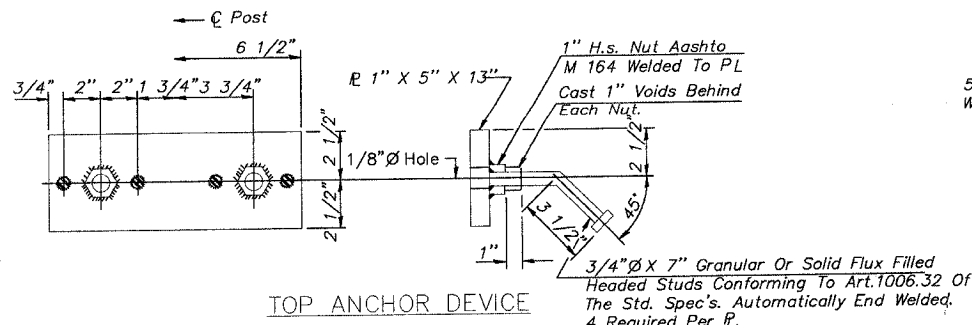
* Threaded Areas Shall Be Plugged Or
Blocked Off During Casting Of Beam.



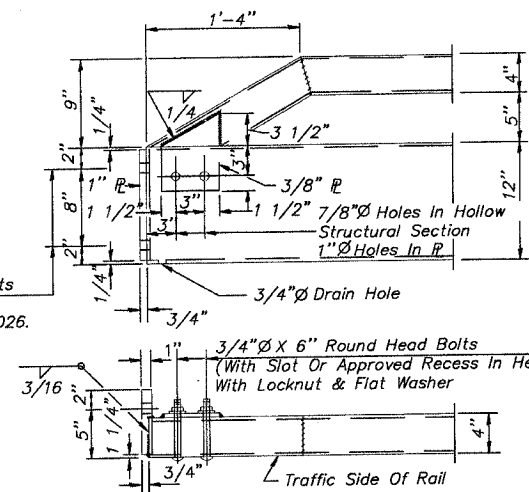
BOTTOM ANCHOR DEVICE



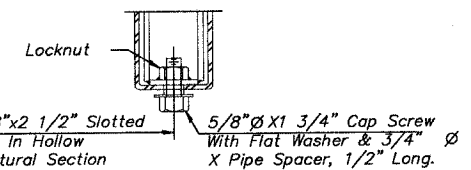
1/4" SHIM PLATE



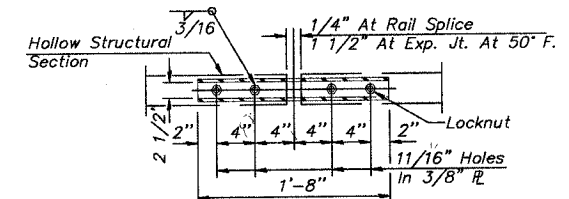
TOP ANCHOR DEVICE



END OF RAIL DETAILS



RAIL SPLICE CONNECTION
AT EXPANSION JT.



PLAN-BOTT. SPLICE PL
TYPICAL

BILL OF MATERIAL

ITEM	UNIT	QUANTITY
STEEL RAILING TYPE T-1	FOOT	173

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 lock washers 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.

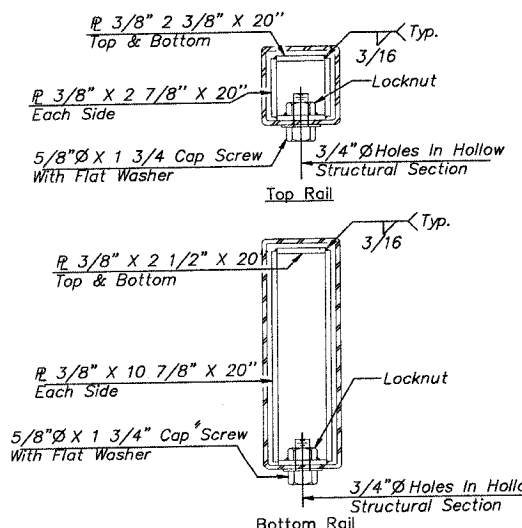
Railing shall be according to Section 509 of the Standard Specifications, except as noted, and will be paid for at the contract unit price per foot for STEEL RAILING, TYPE T-1.

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 1/8" fabric bearing pad between the post and concrete.

The 3/4" Ø high strength bolts used to connect the 6 x 4 x 3/4 angles to the post shall be tightened according to 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 1/8 turn. The 5/8" Ø 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'-5" galvanized steel shims shall be provided to align rail between adjacent spans. Cost included with Steel Railing.



SECTIONS AT RAIL SPLICE

DESIGNED BY:	JTT
CHECKED BY:	
DRAWN BY:	CJP
CHECKED BY:	JTT

McCLURE ENGINEERING ASSOCIATES, INC.
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REVISIONS	NAME	DATE	TITLE
			TYPE T-1 STEEL RAILING DETAILS
			HIGH STREET OVER
			BNSF RAILWAY
			BUREAU COUNTY
			SECTION 01-00008-00-BR
			STATION 5+36.11
			STRUCTURE NO. 006-6600

