Bench Mark chiseled "□" top of concrete headwall 7 ft left Sta 243+11 Elev 537.98

Existing Structure: SN 060-0061: Reinforced concrete arch built as FA Rte 4 in 1938. Structure to be extended in kind.

Traffic to be maintained on existing roadway during construction.

No salvage.

STATE OF ILLINOIS
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Sheet No. 1 of 3 Sheets

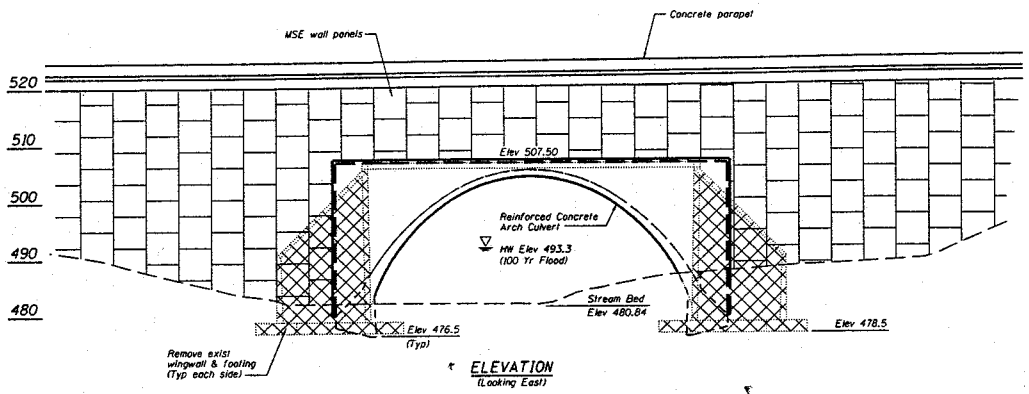
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAP 310	*	MADISON		
FED.ROAD DIST NO.		ILLINOIS	PROJECT	

*60-16-1-18

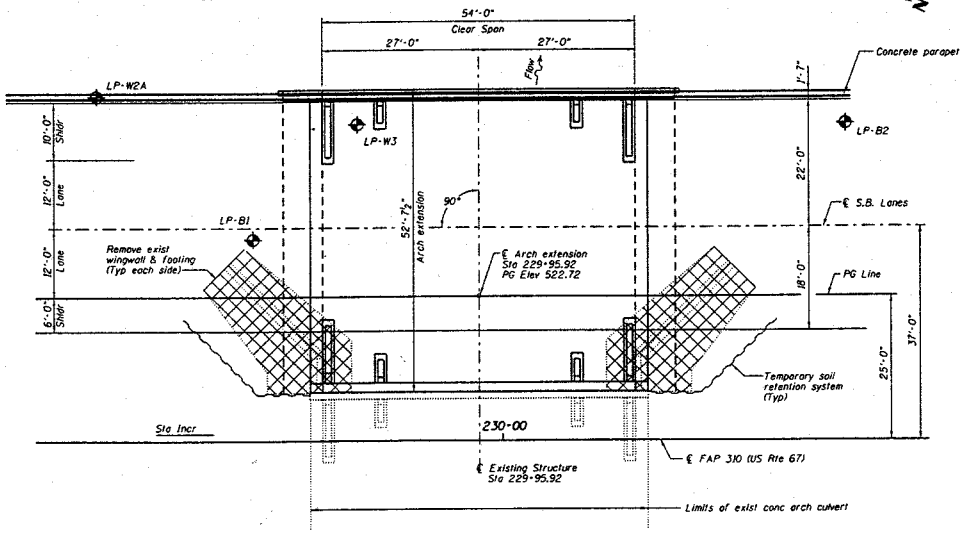
APPROVED

APR 27 2004

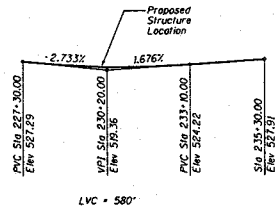
AS A BASIS FOR PREPARATION OF DETAILED PLANS



ELEVATION
(Looking East)



PLAN



PROFILE GRADE

HIGHWAY CLASSIFICATION

FAP 310 (US Rte 67)
Functional Class: Regional Arterial Highway
ADT: 7,500 (1992) 20,500 (2020)
Design Speed: 70 MPH
DHV = 2050

LOADING HS-20

Allow 50 psf For Future Wearing Surface

DESIGN SPECIFICATIONS

2002 AASHTO

DESIGN STRESSES

FIELD UNITS

f'c = 3,500 psi
fy = 60,000 psi

FOUNDATION

Allowable Bearing Pressure = 100 tsf (Arch)

SEISMIC DATA

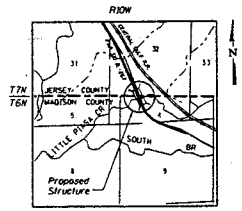
Seismic Performance Category (SPC) = A
Bedrock Acceleration Coefficient (A) = .075 g
Site Coefficient (S) = 1.0

NOTE:

Underwater structure excavation protection is required at both footings.

WATERWAY INFORMATION

Drainage Area = 15.9 sq mile			Exist & Prop Low Grade Elev = 522.38 ft @ Sta 230+89.52							
Flood	Freq. Yr.	Q cfs	Opening ft²		Natural HWE	Head - Ft		Headwater El	
			Exist	Prop		Exist	Prop	Exist	Prop
	10	3016	352	352	490.7	0.5	0.7	491.2	491.4
Design	50	4697	443	443	492.6	1.3	1.7	493.9	494.3
Base	100	5403	471	471	493.3	1.7	2.1	495.0	495.4
Max. Calc.	500	7133	531	531	494.8	2.7	3.2	497.5	498.0



LOCATION SKETCH

US RTE 67 OVER LITTLE PIASA CREEK

GENERAL PLAN AND ELEVATION

REVISIONS		
NO.	DATE	REMARKS
1		
2		
3		
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12		

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

FAP 310 (US RTE 67) SEC 60-16-1-18
STA 229+95.92 **060-0061** MADISON COUNTY

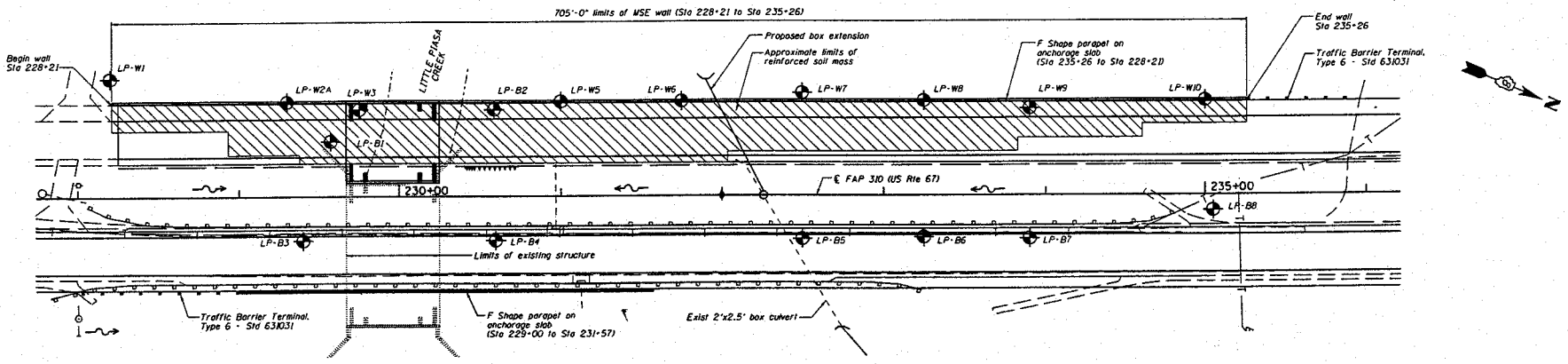
DRAWN BY	DATE
R King	11/03
CHECKED BY	DATE
SDS	11/03
QA/QC BY	DATE
CWC	11/03
BOOK NUMBER	
PROJECT No.	4528
SHEET No.	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

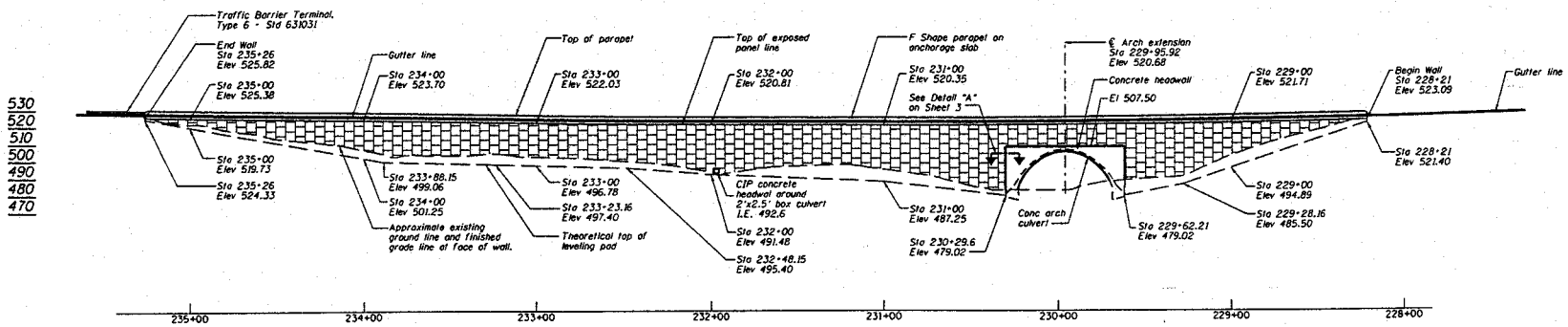
Sheet No. 2 of 3 Sheets

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAP 310	*	MADISON		
FED.ROAD DIST. NO.		ILLINOIS	PROJECT	

*60-16-1-18



MSE PLAN VIEW



MSE WALL ELEVATION
(Looking East)

US RTE 67 OVER LITTLE PIASA CREEK

MSE WALL GENERAL PLAN AND ELEVATION

REVISIONS			
No.	DATE	INITIALS	
1			
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

FAP 310 (US RTE 67) SEC 60-16-1-18
STA 229+95.92 060-0061 MADISON COUNTY

DRAWN BY: R King	DATE: 11/03
DESIGNED BY: SDS	DATE: 11/03
CHECK BY: CWC	DATE: 11/03
BOOK NUMBER	
PROJECT No. 4528	
SHEET No.	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

Sheet No. 3 of 3 Sheets

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAP 310	*	MADISON		
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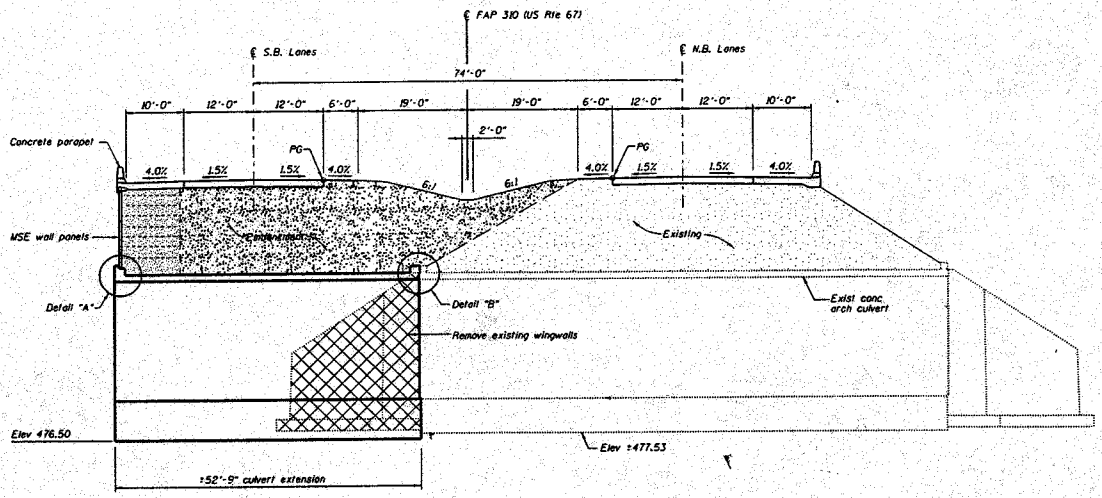
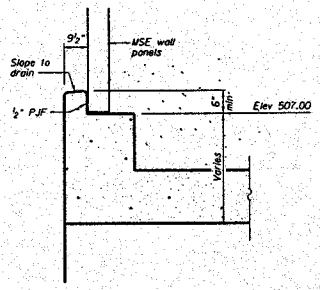
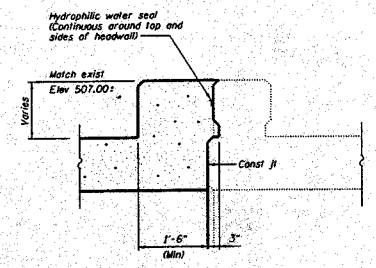
"60-16-1-18



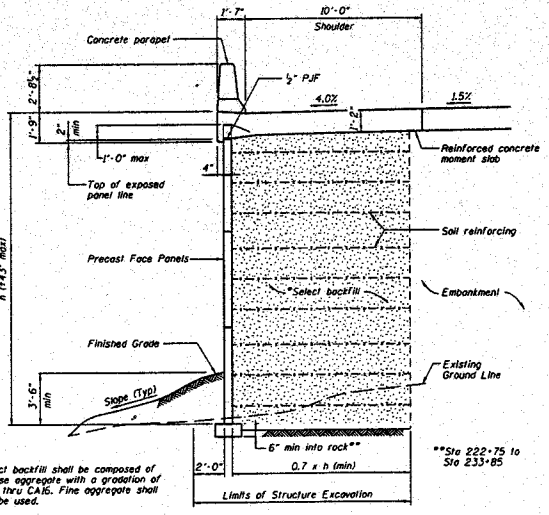
LONGITUDINAL SECTION THRU ARCH



DETAIL "A"

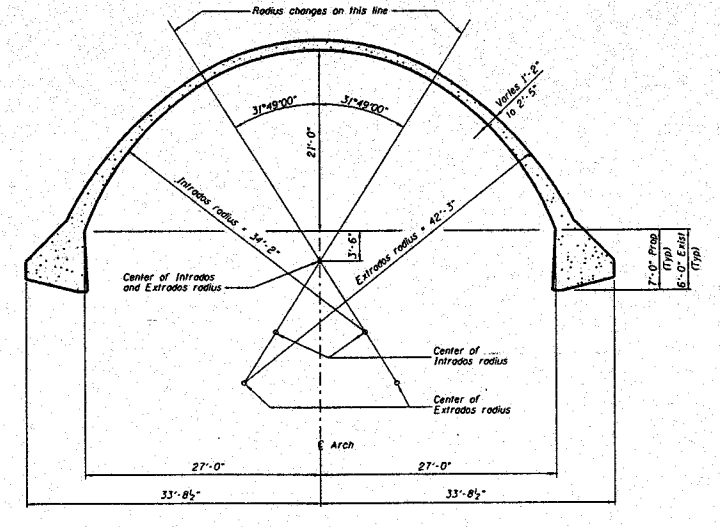


DETAIL "B"



*Select backfill shall be composed of coarse aggregate with a gradation of CA6 thru CA16. Fine aggregate shall not be used.

TYPICAL SECTION THRU MSE WALL



SECTION THRU REINFORCED CONCRETE ARCH

US RTE 67 OVER LITTLE PIASA CREEK

MISCELLANEOUS DETAILS

REVISIONS		
NO.	DATE	DETAILS
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
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FAP 310 (US RTE 67) SEC 60-16-1-18
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