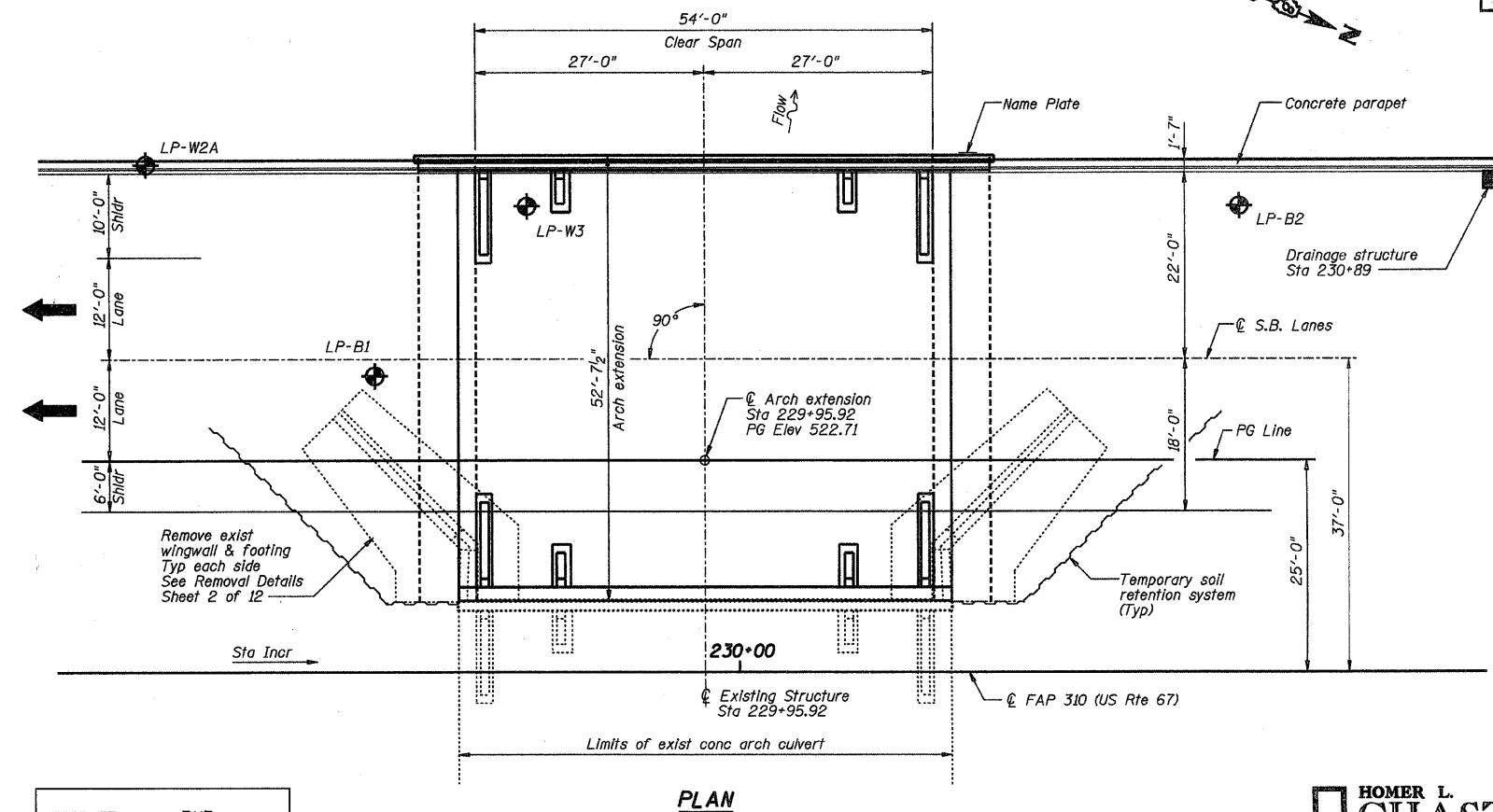
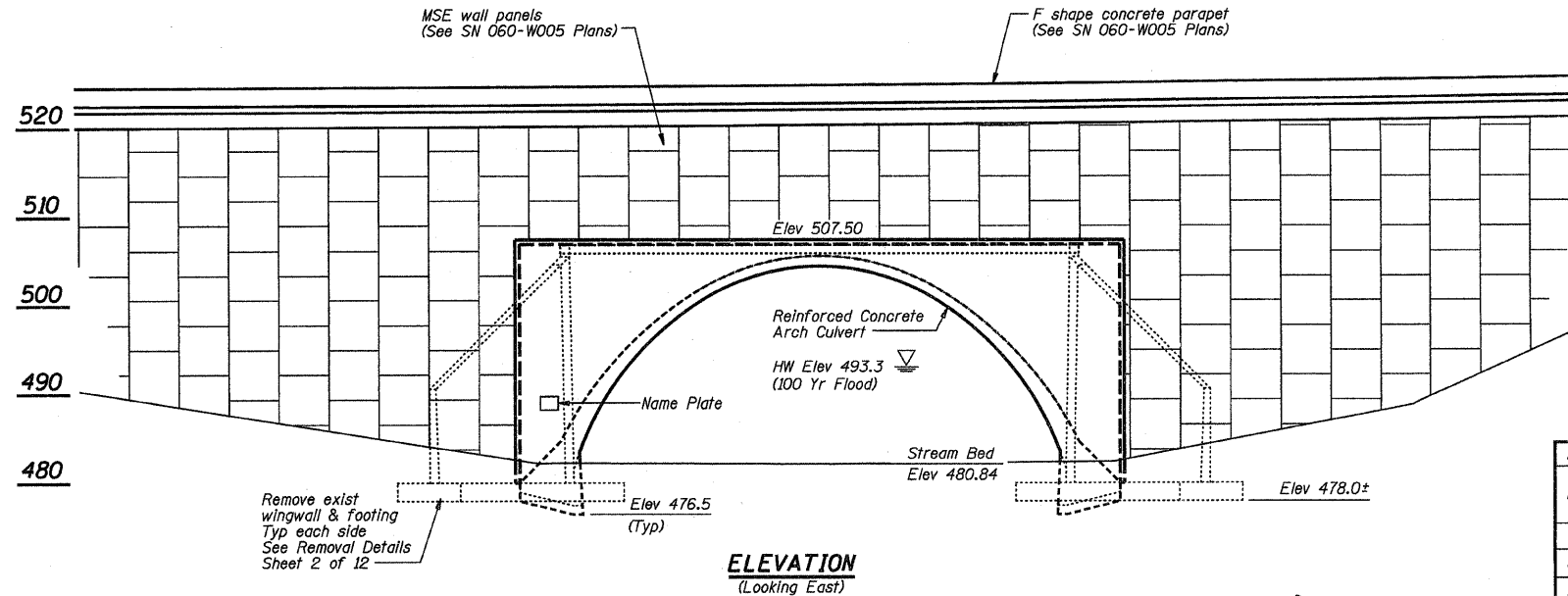


STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

Bench Mark 105: Chiseled "□" top of concrete headwall
55 ft right Sta 231+23 Elev 523.09
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.

GENERAL NOTES:

Plan dimensions and details relative to existing structure have been taken from existing plans and are subject to nominal construction variations. It shall be the Contractor's responsibility to verify such dimensions and details in the field and make necessary approved adjustments prior to construction or ordering of materials. Such variations shall not be cause for additional compensation for a change in the scope of the work, however, the Contractor will be paid for the quantity actually furnished at the unit price for the work.
Reinforcement bars shall conform to the requirements of ASTM A706. See Special Provisions.
Rock excavation shall produce near vertical sides to allow for a minimum of 6" of the footing to be placed against in place rock.
The Contractor shall be responsible for diverting the water flow from the construction area using a method meeting the approval of the Engineer. Cost included with Concrete Structures.
Reinforcement bars designated (E) shall be epoxy coated.

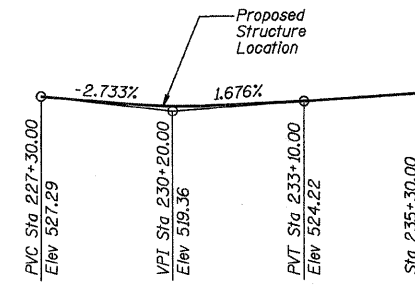


DESIGNED -	BWP
CHECKED -	CWC
DRAWN -	R KING
CHECKED -	CWC

LP-B3

LP-B4

HOMER L. CHASTAIN & ASSOCIATES, LLP
CONSULTING ENGINEERS
DECATUR (217) 422-8544
CHICAGO (773) 714-0050
ROCKFORD (815) 489-0050
184-001397



LVC = 580'
PROFILE GRADE

WATERWAY INFORMATION

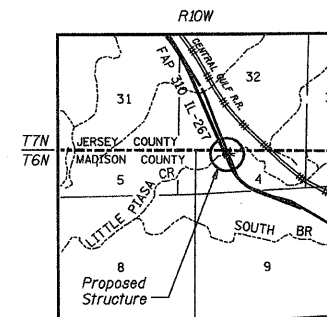
Drainage Area = 15.9 sq mile Exist & Prop Low Grade Elev = 522.38 ft @ Sta 230+89.52

Flood	Freq. Yr.	Q cfs	Opening sq ft		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

INDEX OF SHEETS

- 1 GENERAL PLAN AND ELEVATION
- 2 ARCH CONCRETE REMOVAL DETAILS
- 3 CONCRETE ARCH DETAILS
- 4 CONCRETE ARCH DETAILS
- 5 CONCRETE ARCH DETAILS
- 6 CONCRETE ARCH DETAILS
- 7 CONCRETE ARCH DETAILS
- 8 CONCRETE ARCH DETAILS
- 9 CONCRETE ARCH DETAILS
- 10 SOIL BORING LOGS
- 11 SOIL BORING LOGS
- 12 SOIL BORING LOGS

APPROVED
FOR STRUCTURAL ADEQUACY ONLY
Reple E. Anderson (TSD)
ENGINEER OF BRIDGES AND STRUCTURES



JEREMY BUENING
081-006898
Date 3/3/10
Exp 11/30/10

STATION 229+95.92
WIDENED 20' BY
STATE OF ILLINOIS
F.A.P. 310 (US ROUTE 67)
SEC 60-16-1-1B
LOADING HS20
STR. NO. 060-0061

Place name plate on the left side of the arch headwall approximately 6 foot above ground elevation.

NAME PLATE
See Std. 515001

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 (reinforcement)

FOUNDATION

Maximum Applied Bearing Pressure = 100 tsf (Arch)

SEISMIC DATA

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

TOTAL BILL OF MATERIAL

ITEM	UNIT	TOTAL
Structure Excavation	Cu Yd	135
Rock Excavation for Structures	Cu Yd	128
Concrete Removal	Cu Yd	110
Concrete Structures	Cu Yd	453
Reinforcement Bars, Epoxy Coated	Pound	108,710
Name Plates	Each	1
Temporary Soil Retention System	Sq Ft	1893

GENERAL PLAN AND ELEVATION
FAP ROUTE 310 (US 67)
OVER LITTLE PIASA CREEK
SECTION 60-16-1-1B
MADISON COUNTY
STATION 229+95.92
STRUCTURE NUMBER 060-0061

SHEET NO. 1 OF 12 SHEETS	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	310	60-16-1-1B	MADISON	481	165
FAP ROUTE 310 (US 67)			CONTRACT NO. 76318		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT		